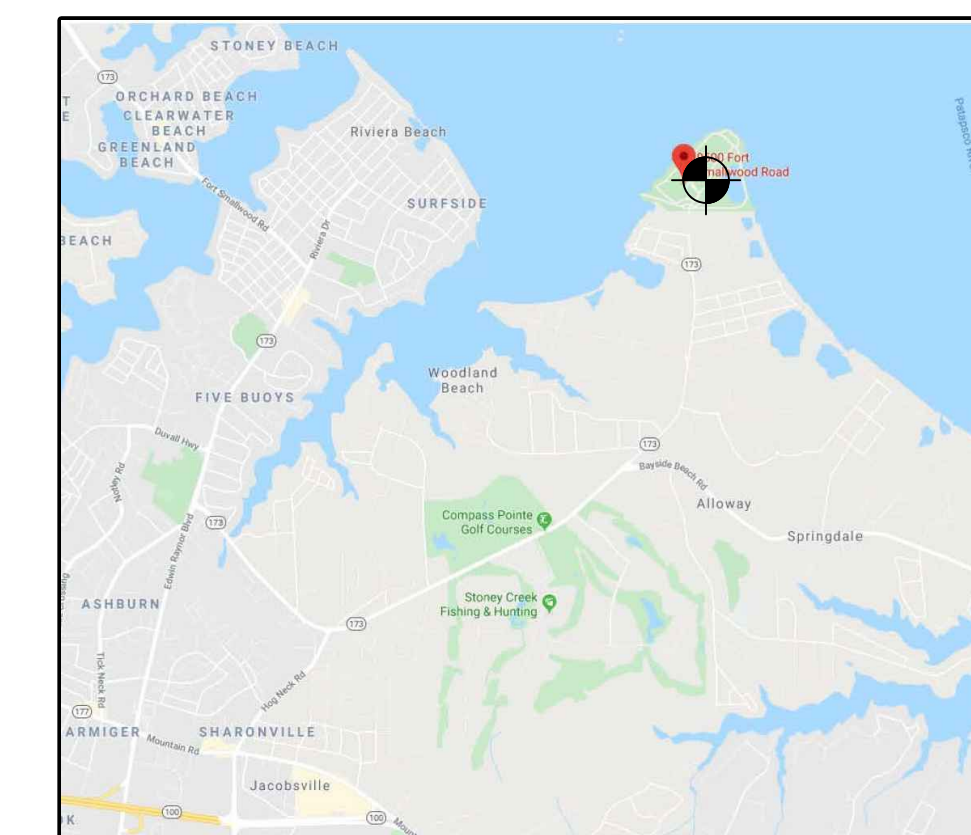


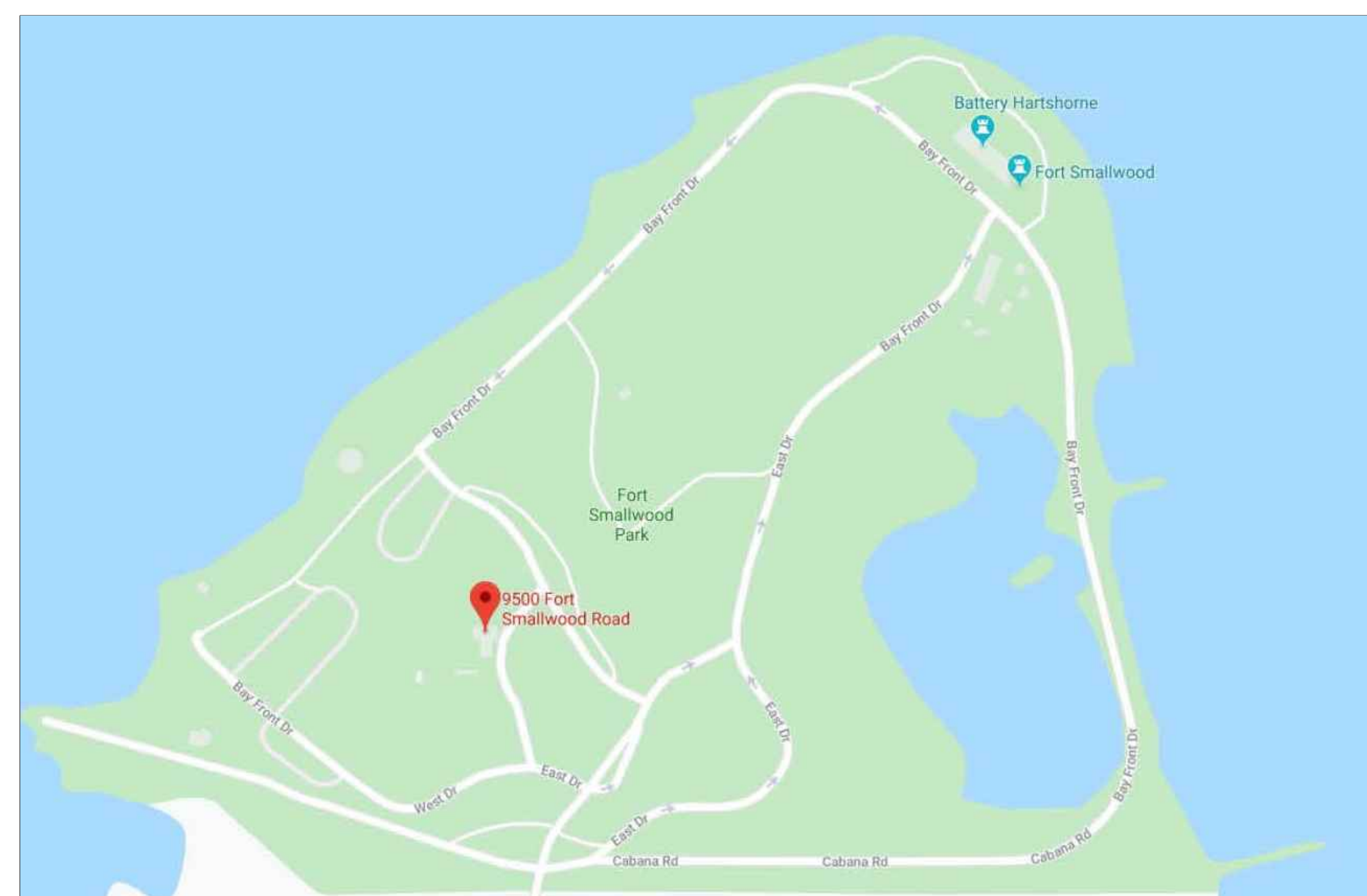
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ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS VISITOR CENTER AT FORT SMALLWOOD PARK PROJECT NO. P535900 CONTRACT NO. P535908



AREA MAP



VICINITY MAP

Statement of Accessibility Review I hereby certify that these plans have been designed in conformance with the 2010 ADA Standards for Accessible Design, County Code, Maryland Accessibility Code and Accessible and Useable Buildings and Facilities - ICC A117.1- 2009 standard.

Print name: _____ Signature: _____ Date: _____

NO.	DESCRIPTION	BY	DATE
△			

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023
APPROVED	DATE	APPROVED	DATE	SCALE: AS NOTED
CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: JL
APPROVED	DATE	APPROVED	DATE	CHECKED BY: JB
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY		SHEET NO. 1 OF 65
				PROJECT NO. P535900
				CONTRACT NO. P535908

INFORMATION STATEMENT	
OWNER	ANNE ARUNDEL COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS (AACDPW) EMMA PFEFFERKORN PWPVPE00@AACOUNTY.ORG (443) 805-1737
CONSULTANT	GANNETT FLEMING, INC. 10200 GRAND CENTRAL AVE. SUITE 310 OWINGS MILLS, MD 21117 443-348-2017 ELIK LVAVY ELIVAV@GFNET.COM
PLAT REFERENCE	MAP 0012 GRID 0013 PARCEL 0014
WATERSHED/SUBWATERSHED	PATAPSCO RIVER WATERSHED
FLOODPLAIN	N/A
CRITICAL AREA (BUFFER)	RESOURCE CONSERVATION AREA (RCA)
WETLANDS	SEE SITE ANALYSIS BELOW
AA CO. GRADING PERMIT NO.	TBD

SITE ANALYSIS		
TOTAL SITE AREA	4,018,355 SF	92.95 AC
EXISTING WETLAND FOREST COVER	169,900 SF	3.90 AC
EXISTING OTHER FOREST COVER	618,596 SF	14.20 AC
TOTAL EXISTING FOREST COVER	788,496 SF	18.10 AC
EXISTING IMPERVIOUS AREA	516,877 SF	11.87 AC
PROPOSED IMPERVIOUS AREA	529,509 SF	12.16 AC
ALLOWABLE CLEARING (20% OF OVERALL COVER)	157,699 SF	3.62 AC
PROPOSED CLEARING	X,XXX SF	XX.XX AC
PROJECTED CUT	500 CU. YDS.	
PROJECTED FILL	4,000 CU. YDS.	

NOTE: CUT AND FILL QUANTITIES ARE APPROXIMATE AND DO NOT REPRESENT BID QUANTITIES.

GENERAL NOTES

- PERFORM WORK IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS (AACDPW) "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION," EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS.
- WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL STANDARDS, SPECIFICATIONS, AND REQUIREMENTS.
- TOPOGRAPHIC DATA PROVIDED IS BASED ON FIELD SURVEY PERFORMED BY BOYD & DOWGIALLO WITH UNKNOWN DATE, SMC DATED IN APRIL 2023 AND ANNE ARUNDEL GIS DATA.
- HORIZONTAL DATUM: MARYLAND COORDINATE SYSTEM NAD 83
VERTICAL DATUM: NGVD 29
PER ANNE ARUNDEL COUNTY CONTROL STATION 90-B
- THE UNDERGROUND UTILITIES SHOWN ARE BASED ON EXISTING DRAWINGS AND LOCATION OF SURFACE FEATURES. NEITHER THE OWNER OR ENGINEER WARRANT OR GUARANTEES THE ACCURACY OF THIS PORTRAYAL. VERIFY THE LOCATIONS AND CHARACTERISTICS OF BELOW-GRADE UTILITIES AND OTHER FACILITIES AS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS THROUGH DIGGING OF TEST PITS.
- REPORT THE BREAKAGE OR DAMAGE OF ANY EXISTING UTILITIES. THE CONTRACTOR SHALL BE LIABLE FOR DAMAGES OR CRIMINAL PENALTIES ASSOCIATED WITH UTILITY DAMAGE ATTRIBUTED TO THEIR ACTIONS.
- CONTACT "MISS UTILITY", 1-800-257-7777, AT LEAST 48 HOURS IN ADVANCE OF ANY CONSTRUCTION FOR LOCATION OF UNDERGROUND UTILITIES.
- FOR AREAS AND/OR UTILITIES WHICH MISS UTILITY WILL NOT LOCATE, THE CONTRACTOR SHALL UTILIZE THE SERVICES OF A PRIVATE UTILITY LOCATOR TO IDENTIFY THE LOCATION OF SUBSURFACE UTILITIES WITHIN THE LIMITS OF WORK.
- KEEP TRENCHES AND EXCAVATIONS DEWATERED AT ALL TIMES. REPLACE EXCAVATED MATERIAL OR TRENCH BOTTOM MATERIAL RENDERED UNSUITABLE FOR SEEDING OR REUSE DUE TO LACK OF DEWATERING OPERATIONS WITH SELECT BACKFILL MATERIALS AT NO ADDITIONAL COST TO THE AACDPW. CONSTRUCT DEWATERING BASINS AS REQUIRED TO CONTROL DISCHARGE FROM TRENCH DEWATERING OPERATIONS.
- PROTECT ALL TREES FROM DAMAGE BEYOND THE LIMITS OF DISTURBANCE. RECTIFY ANY DAMAGE TO THE SATISFACTION OF THE AACDPW.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY FOR CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE AACDPW AND ENGINEER OF ANY CHANGES OR CONDITIONS REQUIRED BY ANY PERMIT. THE CONTRACTOR SHALL OBTAIN THE FINAL PERMIT PAPERWORK FROM THE COUNTY.
- THE CONTRACTOR SHALL SUBMIT A PROPOSED SEQUENCE OF CONSTRUCTION FOR REVIEW PRIOR TO COMMENCEMENT OF ANY WORK.
- THE CONTRACTOR SHALL MAINTAIN ACCURATE AS-BUILT RECORDS DURING PROGRESS OF THE WORK. RECORD SET MUST BE COMPLETE AND CURRENT AND AVAILABLE FOR INSPECTION AT ALL TIMES. AS-BUILT RECORDS SHALL BE FURNISHED TO THE AACDPW AT THE COMPLETION OF THE PROJECT.
- THE AACDPW WILL COMPLETE AN ITEMIZED LIST OF EQUIPMENT TO BE SALVAGED PRIOR TO THE CONTRACTOR STARTING ANY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, TRANSPORTATION, AND UNLOADING, INTACT OF ALL SALVAGED EQUIPMENT, TO THE COUNTY'S DESIGNATED FACILITY. ALL OTHER EQUIPMENT SHALL BE DISPOSED OF BY THE CONTRACTOR.
- PRIOR TO SUBMITTING BID, THE CONTRACTOR IS STRONGLY ENCOURAGED TO VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL MATERIAL, LABOR AND ALL INCIDENTALS FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY CALLED FOR OR NOT. ALL ERRORS, DISCREPANCIES AND MISSED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS BY THE CONTRACTOR. THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA COST WILL BE ALLOWED FOR ANY DISCREPANCY WHICH COULD HAVE BEEN NOTICED AT THE SITE VISIT BY THE CONTRACTOR.
- GUARANTEE WORK IN WRITING FOR ONE YEAR FROM DATE OF CONDITIONAL ACCEPTANCE. REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER DURING THE GUARANTEE PERIOD. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER. SUBMIT GUARANTEE TO OWNER BEFORE FINAL PAYMENT.
- DAMAGE TO EXISTING FACILITIES AND INFRASTRUCTURE SHALL BE REPAIRED OR REPLACED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL, SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS USED ON THE PROJECT. SUBMITTALS SHALL BE APPROVED BY THE ENGINEER BEFORE PURCHASE OF MATERIALS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION THAT IS NOT SHOWN ON THE DRAWINGS.

ANNE ARUNDEL COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION / VISITOR CENTER

PROJECT NO. P535900 CONTRACT NO. P535908

STANDARD RESPONSIBILITY NOTES

- I (WE) CERTIFY THAT:
 - ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS SEDIMENT AND EROSION CONTROL PLAN, AND FURTHER, AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE ANNE ARUNDEL SOIL CONSERVATION DISTRICT (AASCD) BOARD OF SUPERVISORS OR THEIR AUTHORIZED AGENTS.
 - ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

RESPONSIBLE PERSONNEL ON SITE: _____
 - IF APPLICABLE, THE APPROPRIATE ENCLOSURE WILL BE CONSTRUCTED AND MAINTAINED ON SEDIMENT BASIN(S) INCLUDED IN THIS PLAN. SUCH STRUCTURE(S) WILL BE IN COMPLIANCE WITH THE ANNE ARUNDEL COUNTY CODE.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHT, AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THE PLAN.
- FOR INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT AND/OR TEMPORARY STABILIZATION PER THE AASCD VEGETATIVE ESTABLISHMENT SHALL BE COMPLETED WITHIN THREE CALENDAR DAYS FOR THE SURFACE OF ALL CONTROL S, DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), AND SEVEN DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- THE GRADING AND SEDIMENT CONTROL APPROVAL ON THIS PLAN EXTENDS ONLY TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE.
- THE APPROVAL OF THIS PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE DEVELOPER/CONSULTANT FROM COMPLYING WITH FEDERAL, STATE OR COUNTY REQUIREMENTS PERTAINING TO ENVIRONMENTAL ISSUES.
- THE DEVELOPER MUST REQUEST THAT THE SEDIMENT AND EROSION CONTROL INSPECTOR APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT, AND THE ORDINANCE.
- ALL MATERIAL SHALL BE TAKEN TO A SITE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN.
- FIRST PHASE INSPECTION AND APPROVAL OF THE SEDIMENT AND EROSION CONTROL INSPECTOR SHALL BE REQUIRED UPON COMPLETION OF THE INSTALLATION OF EROSION AND SEDIMENT CONTROLS PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THE INITIAL APPROVAL BY THE SEDIMENT AND EROSION CONTROL INSPECTOR IS GIVEN. INSPECTION CONTROL ALSO BE PERFORMED BY A DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION COMMENCING.
- APPROVAL FROM THE INSPECTOR MUST BE REQUESTED ON FINAL STABILIZATION OF ALL SITES PRIOR TO REMOVAL OF SEDIMENT AND EROSION CONTROLS.
- EXISTING TOPOGRAPHY MUST BE FIELD VERIFIED BY RESPONSIBLE PERSONNEL TO THE SATISFACTION OF THE SEDIMENT CONTROL INSPECTOR PRIOR TO COMMENCING WORK.

SIGNATURE OF DEVELOPER _____ DATE _____

NAME: _____
TITLE: _____
AFFILIATION: _____
ADDRESS: _____
TELEPHONE NUMBER: _____
EMAIL ADDRESS: _____

DAILY STABILIZATION NOTE

FOR ALL UTILITY INSTALLATION, CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE COMPLETED AND STABILIZED BY THE END OF EACH WORKING DAY. STABILIZATION SHALL BE AS FOLLOWS:

- FOR AREAS TO BE PAVED, THE APPLICATION OF STONE BASE
- FOR AREAS TO BE VEGETATIVELY STABILIZED, PERMANENT SEEDING OR SODDING.
- ANY AREAS WHICH CAN NOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE REINFORCED SILT FENCE INSTALLED ON THE DOWN-SLOPE SIDE.
- ANY SEDIMENT ACCUMULATION ON ROADWAYS SHALL BE REMOVED IMMEDIATELY.

LIST OF DRAWINGS		
SHEET NO.	DWG NO.	TITLE
2	C-101	COVER SHEET AND LIST OF DRAWINGS
3	C-102	LEGEND AND ABBREVIATIONS
4	C-103	GEOTECHNICAL DATA
5	C-201	EXISTING CONDITION PLAN
6	C-202	DEMOLITION PLAN
7	C-301	CONSTRUCTION PHASING PLAN
8	C-302	SITE PLAN
9	C-303	GRADING & DRAINAGE PLAN
10	C-304	SEPTIC PLAN & DETAILS
11	C-401	STORMWATER MANAGEMENT PLAN
12	C-402	SWM BMP AREA LANDSCAPE PLAN
13	C-403	EROSION & SEDIMENT CONTROL PLAN
14	C-404	SWM DRAINAGE AREA MAP
15	C-501	STORMWATER MANAGEMENT DETAILS
16	C-502	EROSION AND SEDIMENT CONTROL NOTES
17	C-503	EROSION AND SEDIMENT CONTROL DETAILS
18	C-504	CIVIL DETAILS
19	C-505	SWM EXHIBIT PLAN - PRE-DEVELOPMENT
20	C-506	SWM EXHIBIT PLAN - POST-DEVELOPMENT
21	C-507	SWM POI DA MAP - PRE-DEVELOPMENT
22	C-508	SWM POI DA MAP - POST-DEVELOPMENT

CONSULTANT'S CERTIFICATION

THE DEVELOPER'S PLAN TO CONTROL SILT AND EROSION IS ADEQUATE TO CONTAIN THE SILT AND EROSION ON THE PROPERTY COVERED BY THE PLAN. I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THIS SITE, AND WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASCD PLAN SUBMITTAL GUIDELINES AND THE CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER.

MD P.E. LICENSE # _____
NAME _____
FIRM NAME GANNETT FLEMING, INC.
ADDRESS 10200 GRAND CENTRAL AVE, SUITE 310
CITY OWING MILLS STATE MD ZIP CODE 21117

DATE _____

BENCHMARK DATA			
ID	NORTHING	EASTING	ELEV
90-B	544,919.196 NAD83	1,459,225.966 NAD83	8.82 NGVD29

SEQUENCE OF CONSTRUCTION

(SEE SHEET C-301 FOR PHASING DETAILS)

- PHASE 1 (SEE ESC SHEET FOR BMP PLACEMENT)
- NOTIFY THE ANNE ARUNDEL COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS (410-222-7780) AT LEAST 48 HOURS BEFORE COMMENCING WORK. WORK MAY NOT COMMENCE UNTIL THE PERMITTEE OR THE RESPONSIBLE PERSONNEL HAVE MET ON SITE WITH THE SEDIMENT AND EROSION CONTROL INSPECTOR TO REVIEW THE APPROVED PLANS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "MISS UTILITY" AT 1-800-257-7777 FOR THE LOCATION OF ALL PUBLIC AND PRIVATE UTILITY LINES, PIPES, CABLES AND ASSOCIATED FEATURES AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION WORK. NO WORK MAY BEGIN WITHOUT CLEAR UTILITY MARKINGS. WHERE "MISS UTILITY" SERVICES ARE NOT AVAILABLE THE CONTRACTOR SHALL UTILIZE A PRIVATE UTILITY LOCATION CONTRACTOR.
 - STAKE OUTMARK LIMITS OF WORK.
 - STAKE OUTMARK LOCATION OF SEDIMENT CONTROL DEVICES.
 - CLEAR AND GRUBBING AS NECESSARY FOR PERIMETER CONTROLS.
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE AND ACCESS ROAD AS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES.
 - INSTALL PROTECTION FENCING AROUND THE EXISTING SEPTIC SYSTEM TO ENSURE NO DISTURBANCE.
 - INSTALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
 - INSTALL TREE PROTECTION FENCE.
 - OBTAIN SEDIMENT CONTROL INSTALLATION INSPECTION APPROVAL BY INSPECTOR. INSPECTIONS AND PERMITS MAY REQUIRE THAT AN INSPECTION & CERTIFICATION OF THE SEDIMENT CONTROLS BE PERFORMED BY A DESIGN PROFESSIONAL PRIOR TO CONTINUING WORK.
- PHASE 2
- CONSTRUCT NEW ACCESS ROAD & PARKING AREA TO TOP OF BASE MATERIAL AS SHOWN ON PHASE 2 DETAIL.
 - INSTALL CURBING AS SHOWN ON THE PHASE 2 DETAIL.
 - CONSTRUCT BMP AREAS AND STORM INLETS AND DRAIN AS SHOWN ON PHASE 2 DETAIL.
 - INSTALL INLET PROTECTION AND DISCHARGE PROTECTION ON NEWLY INSTALLED STORM PIPE.
 - CONSTRUCT MATERIALS STAGING AREA IN THE LOCATION SHOWN ON PHASE 2 DETAIL.
 - FEATHER EXISTING GRAVEL ROAD INTO NEW GRAVEL AREA.
 - MOVE EXISTING WHEEL STOPS TO NEW LOCATION SHOWN ON PHASE 2 DETAIL.
 - CONNECT SIDEWALK FROM EXISTING TRAILERS TO THE NEW GRAVEL PARKING AREA AND ENSURE THAT THE GRADES MEET ADA REQUIREMENTS.
 - INSTALL PUBLIC ACCESS SIGN AT THE NEW ENTRANCE AT LOCATION SHOWN ON PHASE 2 DETAIL.
 - INSTALL CONSTRUCTION TRAFFIC YIELD TO PUBLIC TRAFFIC AT LOCATION SHOWN ON PHASE 2 DETAIL.
 - ALL WORK IN PHASE 2 SHALL BE COORDINATED WITH PARK STAFF TO BE COMPLETED WHEN ACCESS TO THE EXISTING TRAILERS IS NOT REQUIRED.
- PHASE 3
- DEMOLISH GRAVEL ROAD TO THE SOUTH OF THE NEWLY CONSTRUCTED GRAVEL ENTRANCE & PARKING. RESTORE ROAD BED AREA AS REQUIRED.
 - DEMOLISH EXISTING SIDEWALK AROUND BARRACKS BUILDING.
 - PERFORM INTERIOR BUILDING RENOVATION.
 - CONSTRUCT WATER TREATMENT BUILDING, TREATMENT SYSTEM, & NEW WATER LINE TO THE BARRACKS.
 - CONSTRUCT SEPTIC SYSTEM COMPONENTS AS SHOWN ON PHASE 3 DETAIL. ENSURE THAT THE EXISTING SEPTIC FROM TRAILERS IS STILL IN SERVICE UNTIL THEY ARE REMOVED IN PHASE 4.
 - INSTALL ADDITIONAL STORM DRAIN AND INLETS AS SHOWN ON PHASE 3 DETAIL.
 - INSTALL EQUIPMENT PADS AS SHOWN ON PHASE 3 DETAIL.
 - INSTALL SIDEWALK AS SHOWN ON PHASE 3 DETAIL.
 - MOVE WHEEL STOPS TO LOCATION SHOWN ON PHASE 3 DETAIL.
 - RESTORE AREAS AROUND BARRACKS BUILDING AND ENSURE THAT HEALTH AND SAFETY REQUIREMENTS ARE MET TO OBTAIN CO FOR USE OF THE BUILDING.
 - INSTALL PERMANENT SIGNAGE AT ENTRANCE. SEE ARCH. PLANS FOR SIGN DETAILS.
- PHASE 4
- REMOVE EXISTING TRAILERS AND DEMOLISH/ABANDON ALL CONNECTED UTILITIES. COORDINATE DEMOLITION WITH COUNTY STAFF TO ENSURE THAT INTERIOR FURNISHINGS ARE RELOCATED PRIOR TO DEMOLITION.
 - ABANDON EXISTING SEPTIC SYSTEM PER HEALTH DEPARTMENT REQUIREMENTS.
 - CONSTRUCT SOUTHERN PORTION OF THE PVIOUS PAVEMENT ON PHASE 4 DETAIL. FENCE OFF AREA FROM CONSTRUCTION TRAFFIC.
 - COMPLETE THE REMAINING GRADING FOR THE DRIVE & SIDEWALK AREAS AS SHOWN ON PHASE 4 DETAIL.
 - COMPLETE THE PAVING AS SHOWN ON PHASE 4 DETAIL.
 - INSTALL PARKING STRIPES ON THE SOUTH SIDE OF THE DRIVE.
 - DEMOLISH GRAVEL DRIVE NORTH OF THE CONSTRUCTED GRAVEL PARKING AREA & RESTORE AREA.
 - REMOVE CONSTRUCTION TRAFFIC SIGNS.
- PHASE 5
- COMPLETE THE PVIOUS PAVEMENT SECTION ON THE NORTH SIDE OF THE DRIVE.
 - COMPLETE THE REMAINING SIDEWALK ON THE NORTH SIDE OF THE DRIVE.
 - INSTALL PARKING STRIPES, SIGNS & WHEEL STOPS ON THE NORTH SIDE OF THE DRIVE.
 - PERFORM FINAL FINE GRADING.
 - INSTALL LANDSCAPING IN BIO-RETENTION PONDS.
 - GRADE THE DISTURBED SITE AND SEED ALL DISTURBED GRASS AREA. INSTALL TEMPORARY SOIL STABILIZATION MATTING.
 - UPON COMPLETION OF ALL PROPOSED CONSTRUCTION WORK, OBTAIN APPROVAL FROM THE EROSION AND SEDIMENT CONTROL INSPECTOR.
 - REMOVE ALL TEMPORARY EROSION & SEDIMENT CONTROL MEASURES.



VICINITY MAP

SCALE: 1" = 2000'

SOURCE: _____

COVERAGE ANALYSIS

STRUCTURES TO REMAIN	
BARRACKS	2,318 SF
FORT	8,716 SF
PAVILION	3,116 SF
SHED	655 SF
BOAT RAMP CONCESSION	1,763 SF
GATEHOUSE	2,318 SF
BEACH CONCESSION	8,716 SF
COMFORT STATION	3,116 SF
MAINTENANCE BUILDING	5,258 SF
STRUCTURES TO BE REMOVED	
OFFICE TRAILERS	1,110 SF
PROPOSED STRUCTURES	
WATER TREATMENT BUILDING	186 SF
TOTALS	
TOTAL EXISTING STRUCTURES	25,251 SF
TOTAL PROPOSED STRUCTURES	186 SF
EXISTING IMPERVIOUS AREAS	516,877 SF
EXISTING PAVEMENT/GRAVEL	491,440 SF
PROPOSED IMPERVIOUS AREAS	529,509 SF
PROPOSED PAVEMENT/GRAVEL	504,072 SF
NEW PAVEMENT/GRAVEL PROPOSED	12,832 SF

gba
gant-brunnett ARCHITECTS
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227-1044
Telephone Number: 410-234-8444

GANNETT FLEMING
10200 GRAND CENTRAL AVENUE,
SUITE 310
OWINGS MILLS, MD 21117
PH: (717) 886-5411

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023	
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE
△					
				APPROVED	DATE
				CHIEF ENGINEER	PROJECT MANAGER
				APPROVED	DATE
				ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT OF WAY

SCALE: AS NOTED
DRAWN BY: CG
CHECKED BY: KW
SHEET NO. 2 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

COVER SHEET **C-101**

GENERAL NOTES

- THE LOCATIONS AND CHARACTERISTICS OF ALL OTHER BELOW-GRADE UTILITIES AND OTHER FACILITIES DEPICTED ON THE CONTRACT DRAWINGS ARE BASED ON ABOVE-GROUND FIELD OBSERVATIONS AND AS-BUILT DRAWINGS. NEITHER THE AACDPW NOR THE ENGINEER WARRANTS THE CORRECTNESS OR COMPLETENESS OF THE DEPICTIONS. ACCORDINGLY, THE DEPICTIONS SHALL BE CONSIDERED TO BE APPROXIMATE. VERIFY THE LOCATIONS AND CHARACTERISTICS OF BELOW-GRADE UTILITIES AND OTHER FACILITIES AS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS THROUGH DIGGING OF TEST PITS.
- REPORT THE BREAKAGE OF ANY EXISTING SEWER PIPE, RESULTANT SEWAGE OVERFLOW AND/OR SPILL IMMEDIATELY TO THE AACDPW. THE CONTRACTOR SHALL BE LIABLE FOR ALL SEWAGE OVERFLOW AND/OR SPILL CLEAN UP COSTS INCURRED BY THE OWNER AND/OR STATE OF MARYLAND, AND SHALL ALSO BE LIABLE FOR ANY CIVIL AND/OR CRIMINAL PENALTIES ASSOCIATED WITH SUCH OVERFLOWS AND/OR SPILLS.
- THE CONTRACTOR SHALL SUBMIT A PROPOSED SEQUENCE OF CONSTRUCTION FOR REVIEW PRIOR TO COMMENCEMENT OF ANY WORK. THE SEQUENCE OF CONSTRUCTION SHALL INCLUDE TEMPORARY BYPASS PUMPING IN ORDER TO COMPLETE ALL SEWER PUMP STATION IMPROVEMENTS WHILE MAINTAINING THE EXISTING CAPACITY OF THE SEWER PUMP STATION AND EXISTING COMMUNICATION SYSTEMS. CLEARING AND GRUBBING, EXCAVATION SUPPORT AND PROTECTION, DEWATERING, LINE TAPPING AND STOPPING, PIPE AND VALVE SUPPORT, THRUST RESTRAINTS, SITE RESTORATION, AND ALL OTHER WORK NECESSARY TO COMPLETE THE SEWER PUMP STATION IMPROVEMENTS SHALL ALSO BE INCLUDED.
- THROUGHOUT THE DRAWINGS EXISTING CONDITIONS ARE DEPICTED AS GRAYSCALE LINES. IF GRAY LINES ARE NOT DISTINGUISHABLE FROM BLACK LINES, REPORT THIS TO THE AACDPW PRIOR TO SUBMITTING A BID FOR THIS PROJECT.
- THE AACDPW WILL COMPLETE AN ITEMIZED LIST OF EQUIPMENT TO BE SALVAGED PRIOR TO THE CONTRACTOR STARTING ANY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, TRANSPORTATION, AND UNLOADING, INTACT OF ALL SALVAGED EQUIPMENT, TO THE COUNTY'S DESIGNATED FACILITY. ALL OTHER EQUIPMENT SHALL BE DISPOSED OF BY THE CONTRACTOR.
- CONTRACTOR SHALL COMPLY WITH ALL CONFINED SPACE REQUIREMENTS AND SAFETY REQUIREMENTS PER SPECIFICATION SECTIONS 01010-12 AND 01010-13.
- CONTRACTOR SHALL CONTACT AACO DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY WORK.

LEGEND

- DEMOLITION PHASE 1
- DEMOLITION PHASE 2
- DEMOLITION PHASE 3
- DEMOLITION PHASE 4
- DEMOLITION PHASE 5
- DEMOLITION PHASE 6
- LIMITS OF DISTURBANCE
- SOIL BORING
- WATER MANHOLE
- CLEANOUT
- OBSERVATION WELL
- SANITARY MANHOLE
- DRAINAGE MANHOLE
- DRAINAGE SUBBASIN AREA
- BITUMINOUS ASPHALT PAVING
- PERMEABLE PAVEMENT
- EXISTING IMPERVIOUS AREA IN POI
- EXISTING DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION FLOW PATH
- POINT OF INVESTIGATION
- NEW IMPERVIOUS
- LIMITS OF DISTURBANCE
- REINFORCED SILT FENCE
- SILT FENCE ON PAVEMENT
- TREE PROTECTION FENCING
- STAGING/STORAGE AREA
- EXISTING INDEX CONTOUR (5')
- EXISTING INT. CONTOUR (1')
- EXISTING OVERHEAD UTILITY LINE
- EXISTING TREE LINE
- EXISTING SANITARY FORCE MAIN
- EXISTING ELECTRICAL LINE
- EXISTING WATER LINE
- EXISTING BGE OVERHUNG LINE
- EXISTING ASPHALT AREA
- EXISTING CONCRETE AREA
- EXISTING GRAVEL AREA

ABBREVIATIONS

- AACO ANNE ARUNDEL COUNTY
- AACDPW ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS
- AFS AIR FLOW SWITCH
- CIP CAST IRON PIPE
- CMP CORRUGATED METAL PIPE
- CONC. CONCRETE
- DIA. DIAMETER
- DIP DUCTILE IRON PIPE
- EF EXHAUST FAN
- EL. ELEVATION
- EX. EXISTING
- FL FLANGE
- FRP FIBERGLASS REINFORCED PLASTIC
- HDPE HIGH DENSITY POLYETHYLENE
- I.D. INNER DIAMETER
- IPF IRON PIPE FOUND
- MAG. MAGNETIC
- MAX. MAXIMUM
- MIN. MINIMUM
- MJ MECHANICAL JOINT
- MON MONITORING
- PE PLAIN END
- PVC POLYVINYL CHLORIDE
- RCP REINFORCED CONCRETE PIPE
- ROW RIGHT-OF-WAY
- SF SUPPLY FAN; SILT FENCE
- SHLD SHOULDER
- TYP. TYPICAL
- UH UNIT HEATER
- W. WITH

PIPE SYMBOLS

- FLANGED JOINT PIPING
- PUSH-ON JOINT PIPING
- MECHANICAL JOINT PIPING
- PIPE BREAK SYMBOL
- PIPE BREAK SYMBOL

GENERAL SYMBOLS:

- DETAIL DESIGNATION
- DRAWING NUMBER WHERE SHOWN
- SECTION NUMBER OR DETAIL LETTER
- DRAWING NUMBER WHERE SECTION OR DETAIL APPEARS
- INDICATES DIRECTION OF CUTTING PLANE
- NORTH ARROW
- GENERAL BREAK SYMBOL

3700 Koppers Street, Suite 300
Baltimore, Maryland 21227-1044
Telephone Number: 410-234-8444

10200 GRAND CENTRAL AVENUE,
SUITE 310
OWINGS MILLS, MD 21117
PH: (717) 886-5411

				ANNE ARUNDEL COUNTY				DATE: 9-25-2023	
				DEPARTMENT OF PUBLIC WORKS					
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE: AS NOTED	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122
								DRAWN BY: LDP	
				CHIEF ENGINEER		PROJECT MANAGER		CHECKED BY: KW	
				APPROVED		APPROVED		SHEET NO. 3 OF 65	
				ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY		PROJECT NO. P535900 CONTRACT NO. P535908	
								LEGEND AND ABBREVIATIONS	C-102

BORING LOG **GEOLAB INC.**

Report No: 119-134 Date: 10/25/2019
 Client: GBA, Architects Project: Fort Smallwood Park
 Project No: 119-134
 Boring No: B-26 (1 of 1) Date: 10/25/2019 Location: See Boring Location Plan
 Type of Boring: Hand Auger Station: 8/21/2019 Completed: 8/21/2019 Order: D. Rockwood & T. You

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	Sample Blow	Sample Depth (Feet)	Moisture Content	REMARKS
14.5	0.0	Grass with topsoil and root matter				Groundwater was not encountered during drilling or at completion.
14.25	0.25	Light brown fine to medium SAND with little silt and little to some clay, moist (USCS: SM, USDA: Sandy Loam)				
13.4	1.1		3.0	3.5		
9.8	4.7	Off-white and orange-brown clayey SILT with some sand, moist (USCS: ML, USDA: Silty Clay Loam)		5.0	10.3	
7.5	7.0		7.0	7.5	13.3	
5.5	9.0		9.0	9.5	15.2	
4.8	9.7	Orange-brown fine to medium SAND with trace silt, moist (USCS: SM, USDA: Sandy Loam)		9.5	10	
	10.0	End of Boring				

BORING LOG **GEOLAB INC.**

Report No: 119-134 Date: 10/25/2019
 Client: GBA, Architects Project: Fort Smallwood Park
 Project No: 119-134
 Boring No: B-27 (1 of 1) Date: 10/25/2019 Location: See Boring Location Plan
 Type of Boring: Hand Auger Station: 8/21/2019 Completed: 8/21/2019 Order: D. Rockwood & T. You

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	Sample Blow	Sample Depth (Feet)	Moisture Content	REMARKS
14.5	0.0	Grass with topsoil and root matter				Groundwater was not encountered during drilling or at completion.
13.5	1.0	Brown fine to medium SAND with little silt, dry to moist (USCS: SM, USDA: Loamy Sand)		2.0	2.5	
12.5	2.0	Brown silty and clayey fine to medium SAND, moist (USCS: SM-SC, USDA: Sandy Clay Loam)				
10.5	4.0	Dark brown topsoil with root matter		5.0	5.5	13.7
9.5	5.0					
8.5	6.0	Light brown fine to medium SAND with little silt, moist (USCS: SM, USDA: Loamy Sand)		7.5	8	
7.5	7.0					
6.5	8.0	Light brown fine SAND with trace silt, damp (USCS: SP-SM, USDA: Sand)		9.5	10	8.1
5.5	9.0					
4.5	10.0	Off-white and red brown SILT with little to some clay and some sand, moist (USCS: ML, USDA: Silty Loam)		12.0	12.5	
3.5	11.0					
2.5	12.0					
1.5	13.0					
0.5	14.0					
	15.0	End of Boring				14.8

BORING LOG **GEOLAB INC.**

Report No: 119-134 Date: 10/25/2019
 Client: GBA, Architects Project: Fort Smallwood Park
 Project No: 119-134
 Boring No: B-28 (1 of 1) Date: 10/25/2019 Location: See Boring Location Plan
 Type of Boring: Hand Auger Station: 8/21/2019 Completed: 8/21/2019 Order: D. Rockwood & T. You

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	Sample Blow	Sample Depth (Feet)	Moisture Content	REMARKS
14.5	0.0	Grass with topsoil and root matter				Groundwater was not encountered during drilling or at completion.
13.5	1.0	Light brown and gray fine to medium SAND with trace silt, dry to damp moist (USCS: SP, USDA: Sand)		2.5	3	
11.5	3.0					
9.5	5.0					
8.5	6.0					
7.5	7.0	Gray brown SILT and clay with some sand, moist (USCS: ML, USDA: Silty Clay Loam)		8.0	8.5	4.1
6.5	8.0					
5.5	9.0	Brown fine to medium SAND with little silt and little clay, moist (USCS: SM, USDA: Sandy Loam)		11.0	11.5	6.2
4.5	10.0					
3.5	11.0					
2.5	12.0					
1.5	13.0					
0.5	14.0					
	15.0	End of Boring				6.9

BORING LOG **GEOLAB INC.**

Report No: 119-134 Date: 10/25/2019
 Client: GBA, Architects Project: Fort Smallwood Park
 Project No: 119-134
 Boring No: B-29 (1 of 1) Date: 10/25/2019 Location: See Boring Location Plan
 Type of Boring: Hand Auger Station: 8/21/2019 Completed: 8/21/2019 Order: D. Rockwood & T. You

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	Sample Blow	Sample Depth (Feet)	Moisture Content	REMARKS
14.5	0.0	Grass with topsoil and root matter				Groundwater was not encountered during drilling or at completion.
13.5	1.0	Light brown fine to medium SAND with little to trace silt, dry (USCS: SP, USDA: Sand)		1.5	2	
11.5	3.0					
9.5	5.0	Off-white silty SAND with some to little clay, moist (USCS: SM-SC, USDA: Sandy Loam)		4.0	4.5	3.7
8.5	6.0					
7.5	7.0	Tan fine SAND with little silt, damp (USCS: SP, USDA: Sand)		6.5		
6.5	8.0					
5.5	9.0					
4.5	10.0					
3.5	11.0					
2.5	12.0					
1.5	13.0					
0.5	14.0					
	15.0	End of Boring				5.0

Boring	Depth	Elevation	Class	Description
B-42	0 to 1.1	5.4 to 4.3		topsoil
	1.1 to 2.3	4.3 to 3.1	SP	brown sand, moist
	2.3 to 3.5	3.1 to 1.9	SP	orange sand, wet; water at 1.9
B-43	0 to 1.5	5.8 to 4.3		topsoil
	1.5 to 2.5	4.3 to 3.3	SP	fine brown sand; possible fill
	2.5 to 4.0	3.3 to 1.8	SP	orange sand, moist
B-44	0 to 1.5	1.8 to -0.7	SM	orange silty sand, wet; water at 1.3
	0 to 1.4	6.1 to 4.7		topsoil
	1.4 to 2.0	4.7 to 4.1	SC	light brown sandy clay loam
B-45	2.0 to 4.0	4.1 to 2.1	CL	light tan clay
	4.0 to 6.7	2.1 to -0.6	SC	light reddish silt with clay, crumbly
	6.7 to 7.4	-0.6 to -1.4	SM	tan silty sand, very moist
	0 to 1.5	6.8 to 5.3		topsoil
B-46	1.5 to 2.3	5.3 to 4.5	SP	light brown sand with copious gravel
	2.3 to 5.2	4.5 to 1.6	SP	light brown sand
	5.2 to 6.7	1.6 to 0.1	SP	light brown sand, wet; water at 1.6
	6.7 to 7.4	0.1 to -0.6	SP	light brown sand, damp
B-47	0 to 1.1	5.2 to 4.1		topsoil
	1.1 to 2.4	4.1 to 2.8	SM	brown silty sand
	2.4 to 3.4	2.8 to 1.8	SM	brown silty sand with gravel
	3.4 to 5.5	1.8 to -0.3	SM	brown silty sand, moist
	5.5 to 7.0	-0.3 to -1.8	SM	brown-orange silty sand with gravel, wet
B-48	0 to 1.1	5.8 to 4.7		topsoil
	1.1 to 3.0	4.7 to 2.8	SP	fine brown sand
	3.0 to 5.0	2.8 to 0.8	SM	orange-brown silty sand, moist
	5.0 to 5.6	0.8 to 0.2	SM	Orange silty sand, wet; water at 0.8
	5.6 to 6.3	0.2 to -0.5	CL	orange-white clay
B-49	6.3 to 7.0	-0.5 to -1.2	ML	orange sandy silt, wet
	0 to 1.1	8.4 to 7.3		topsoil
	1.1 to 3.0	7.3 to 5.4	SM	brown silty sand, moist
B-50	3.0 to 4.0	5.4 to 4.4	SM	orange silty sand w/ gravel; water at 4.9

gba
gant-brunnett
 ARCHITECTS
 3700 Koppers Street, Suite 300
 Baltimore, Maryland 21227-1044
 Telephone Number: 410-234-8444

GANNETT FLEMING
 10200 GRAND CENTRAL AVENUE,
 SUITE 310
 OWINGS MILLS, MD 21117
 PH: (717) 886-5411

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

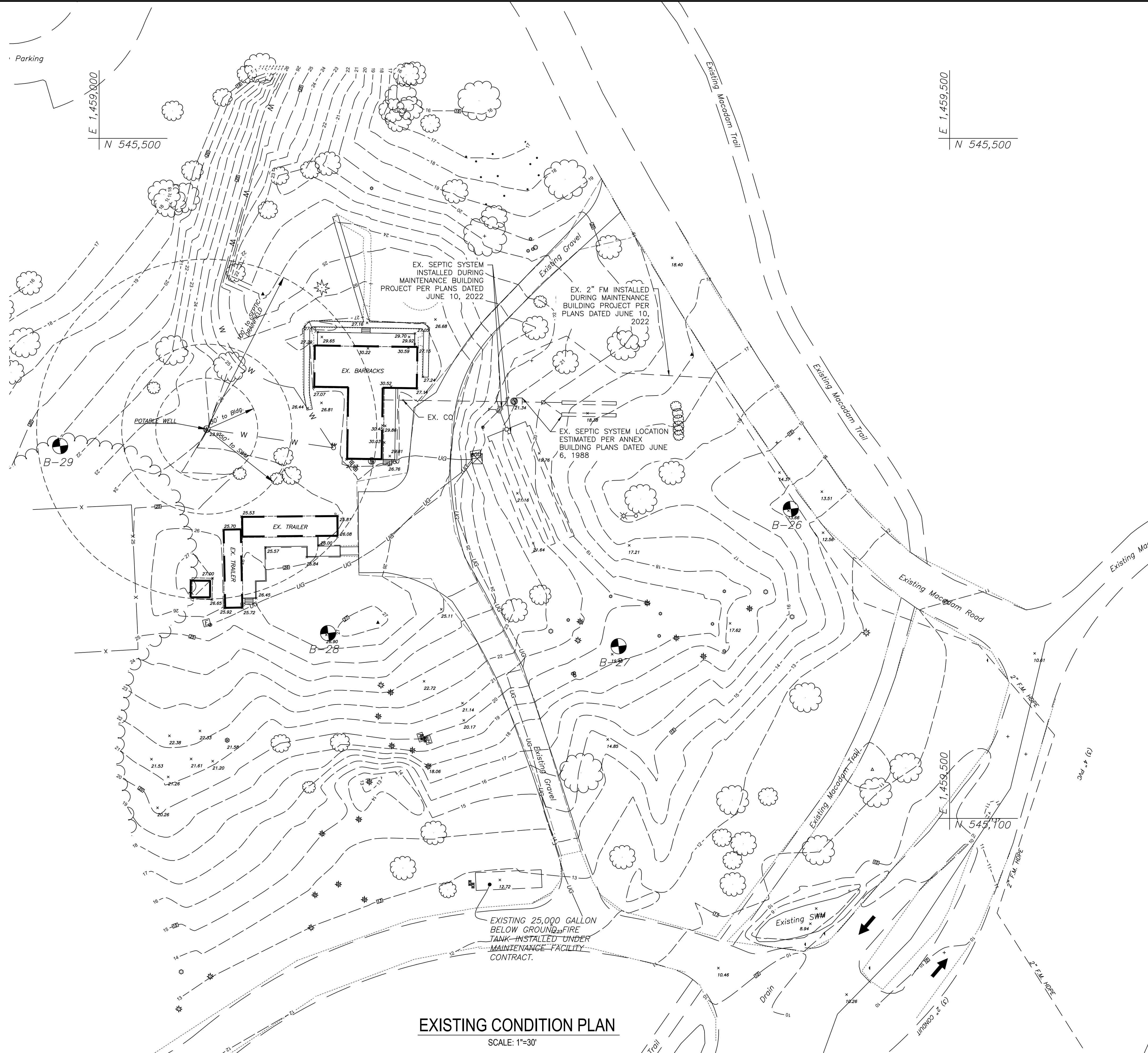
DATE: 9-25-2023

NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE: AS NOTED
△								DRAWN BY: SJM
								CHECKED BY: KW
								SHEET NO. 4 OF 65
								PROJECT NO. P535900
								CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
 9500 FORT SMALLWOOD ROAD
 PASADENA, MD 21122

GEOTECHNICAL DATA

C-103



- LEGEND**
- SOIL BORING
 - ⊙ SEPTIC TANK ACCESS
 - ⊕ WATER VALVE
 - ⊙ WELL LOCATION
 - SANITARY CLEANOUT

EXISTING CONDITION PLAN
SCALE: 1"=30'



gba
gant-brunnett
ARCHITECTS
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227-1044
Telephone Number: 410-234-8444

GANNETT FLEMING
10200 GRAND CENTRAL AVENUE,
SUITE 310
OWINGS MILLS, MD 21117
PH: (717) 886-5411

NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023
APPROVED	DATE	APPROVED	DATE	SCALE: AS NOTED
CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: SJM
APPROVED	DATE	APPROVED	DATE	CHECKED BY: KW
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY		SHEET NO. 5 OF 65
				PROJECT NO. P535900
				CONTRACT NO. P535908

EXISTING CONDITIONS PLAN **C-201**

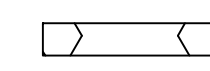
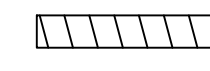
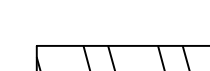

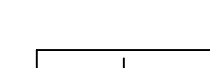

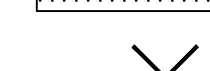
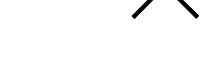
LEGEND

- LOD — LIMITS OF DISTURBANCE
- ⊙ SOIL BORING

GENERAL NOTES:

ALL DEMOLITION WORK MUST BE DONE IN PHASES. SEE DEMOLITION NOTES AND SEQUENCE OF CONSTRUCTION ON COVER SHEET FOR DETAILED PHASING.

DEMOLITION NOTES (SEE SHEET C-301 FOR PHASING):

-  ① DEMOLISH EXISTING GRAVEL ROAD TO INSTALL STABILIZED CONSTRUCTION ENTRANCE.
-  ② DEMOLISH EXISTING GRAVEL ROAD TO INSTALL SEPTIC TANK. REPAIR GRAVEL ROAD TO EXISTING CONDITION AFTER SEPTIC TANK BEING INSTALLED FOR CONSTRUCTION VEHICLE ACCESS.
-  ③ DEMOLISH EXISTING SIDEWALK TO INSTALL PROPOSED SIDEWALK.
-  ④ DEMOLISH EXISTING GRAVEL ROAD AND GRAVEL PARKING TO INSTALL PORTION OF PARKING LOT AND ASPHALT ROAD. ALL UNPAVED AREA SHALL BE STABILIZED WITH SEEDING AND MATTING.
-  ⑤ DEMOLISH EXISTING TRAILERS TO INSTALL REMAINING PORTION OF PARKING LOT AND ASPHALT ROAD. ALL UNPAVED AREA SHALL BE STABILIZED WITH SEEDING AND MATTING.
-  ⑥ DEMOLISH THE REMAINING EXISTING GRAVEL ROAD. ALL UNPAVED AREA SHALL BE STABILIZED WITH SEEDING AND MATTING.
-  ⑦ DEMOLISH EXISTING TREES.
-  ⑧ ABANDON EXISTING SEPTIC SYSTEM PER CONSTRUCTION PHASING PLAN.



gba
gant-brunnett
 ARCHITECTS
 3700 Koppers Street, Suite 300
 Baltimore, Maryland 21227-1044
 Telephone Number: 410-234-8444

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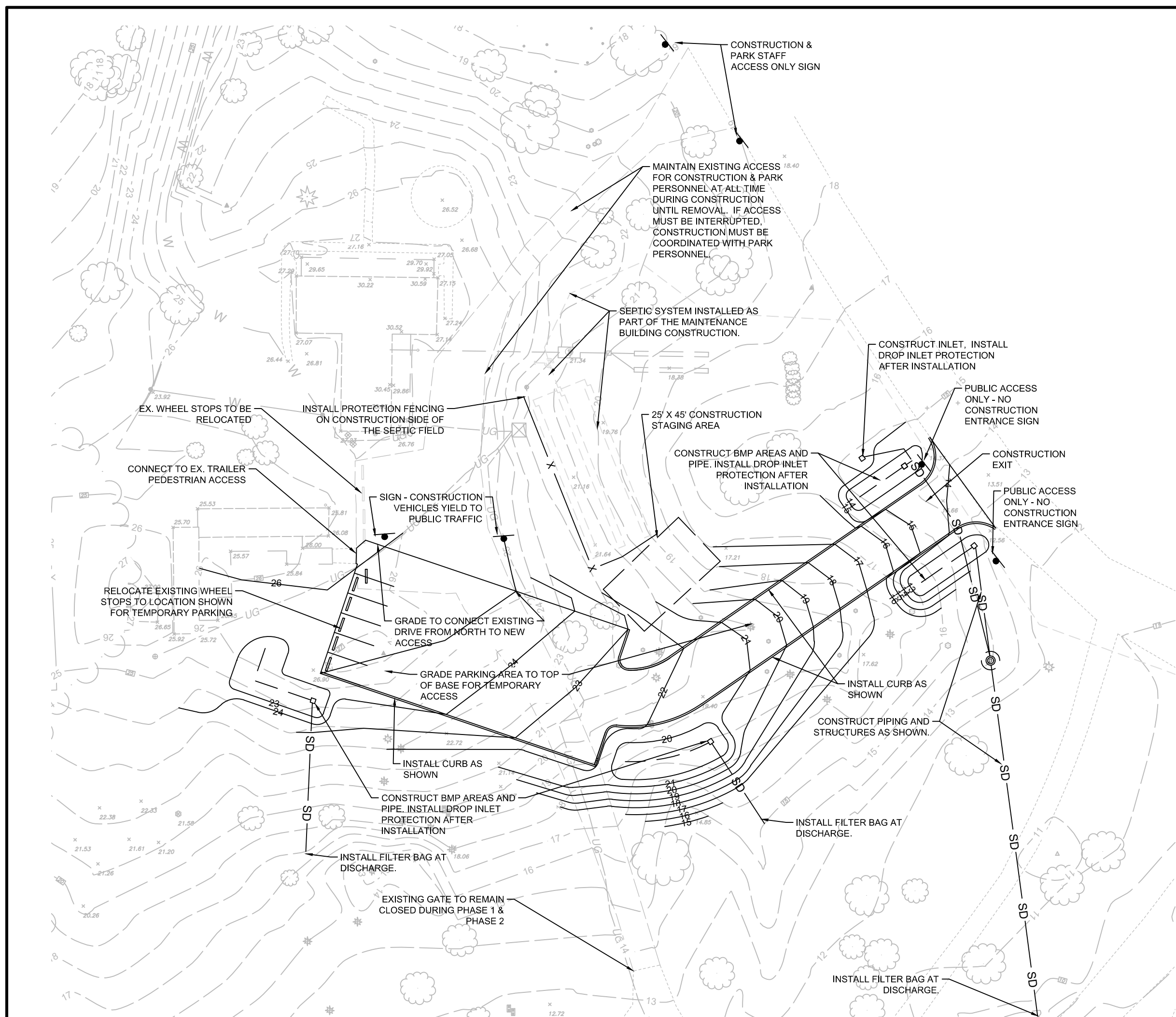
APPROVED				DATE			

ANNE ARUNDEL COUNTY
 DEPARTMENT OF PUBLIC WORKS
 DATE: 9-25-2023

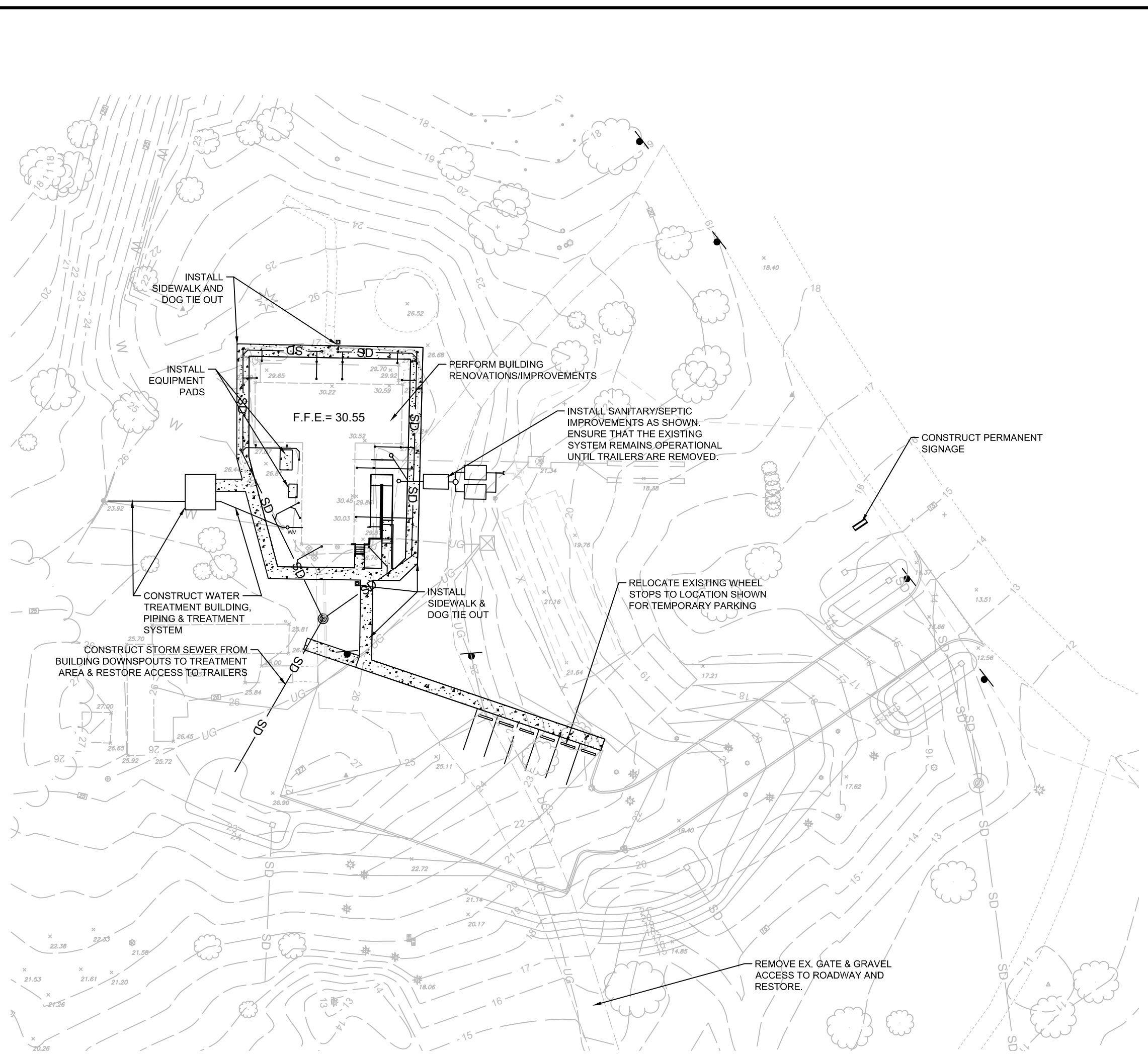
SCALE: AS NOTED
 DRAWN BY: CG
 CHECKED BY: KW
 SHEET NO. 6 OF 65
 PROJECT NO. P535900
 CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
 BARRACKS REHABILITATION/VISITOR CENTER
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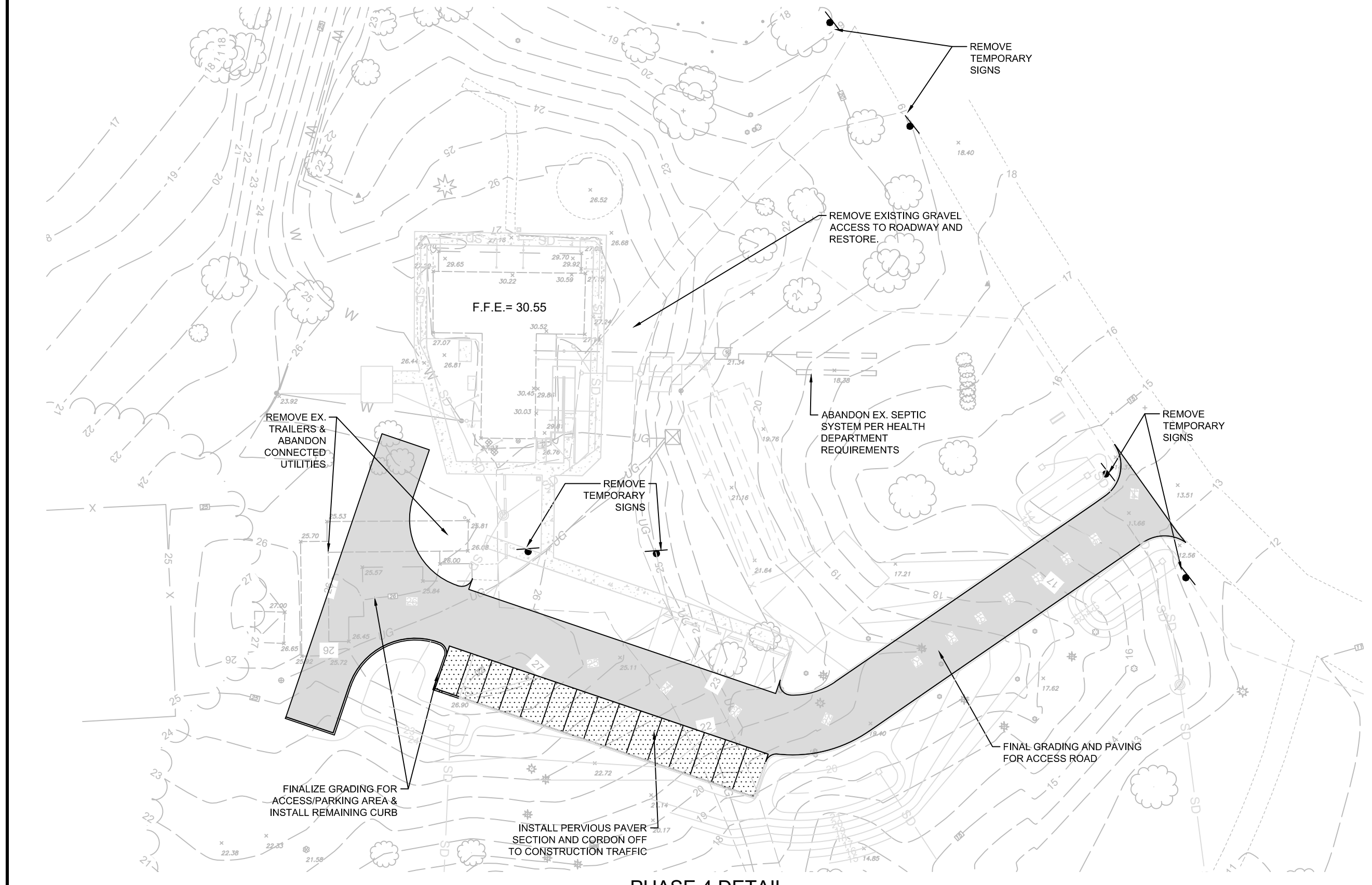
DEMOLITION PLAN C-202



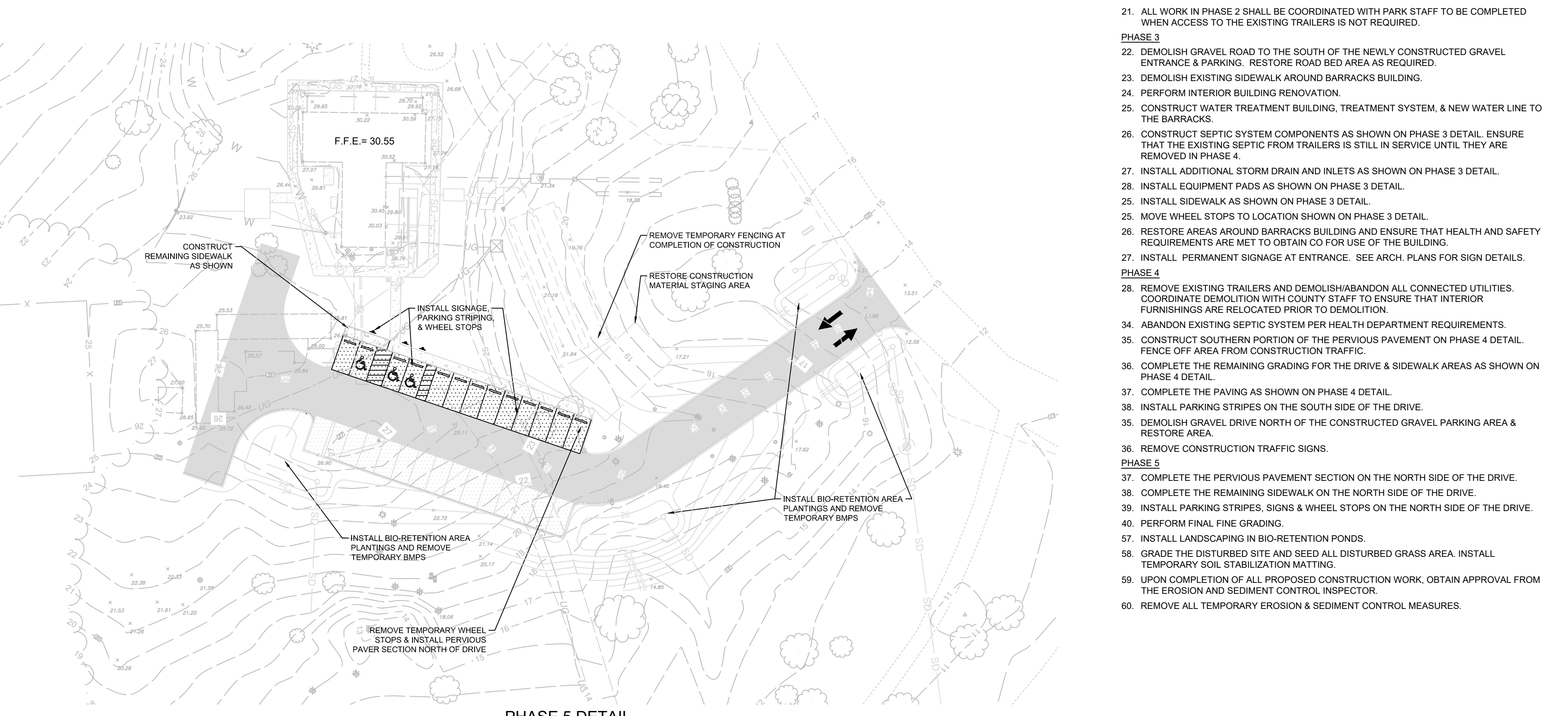
PHASE 2 DETAIL
SCALE: 1" = 40'



PHASE 3 DETAIL
SCALE: 1" = 40'



PHASE 4 DETAIL
SCALE: 1" = 40'



PHASE 5 DETAIL
SCALE: 1" = 40'

SEQUENCE OF CONSTRUCTION

- PHASE 1 (SEE ESC SHEET FOR BMP PLACEMENT)
1. NOTIFY THE ANNE ARUNDEL COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS (410-222-7760) AT LEAST 48 HOURS BEFORE COMMENCING WORK. WORK MAY NOT COMMENCE UNTIL THE PERMITTEE OR THE RESPONSIBLE PERSONNEL HAVE MET ON SITE WITH THE SEDIMENT AND EROSION CONTROL INSPECTOR TO REVIEW THE APPROVED PLANS.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "MISS UTILITY" AT 1-800-257-7777 FOR THE LOCATION OF ALL PUBLIC AND PRIVATE UTILITY LINES, PIPES, CABLES AND ASSOCIATED FEATURES AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION WORK. NO WORK MAY BEGIN WITHOUT CLEAR UTILITY MARKINGS. WHERE "MISS UTILITY" SERVICES ARE NOT AVAILABLE THE CONTRACTOR SHALL UTILIZE A PRIVATE UTILITY LOCATION CONTRACTOR.
 3. STAKE OUT MARK LIMITS OF WORK.
 4. STAKE OUT MARK LOCATION OF SEDIMENT CONTROL DEVICES.
 5. CLEAR AND GRUBBING AS NECESSARY FOR PERIMETER CONTROLS.
 6. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND ACCESS ROAD AS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES.
 7. INSTALL PROTECTION FENCING AROUND THE EXISTING SEPTIC SYSTEM TO ENSURE NO DISTURBANCE.
 8. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
 9. INSTALL TREE PROTECTION FENCE.
 10. OBTAIN SEDIMENT CONTROL INSTALLATION INSPECTION APPROVAL BY INSPECTOR. INSPECTIONS AND PERMITS MAY REQUIRE THAT AN INSPECTION & CERTIFICATION OF THE SEDIMENT CONTROLS BE PERFORMED BY A DESIGN PROFESSIONAL PRIOR TO CONTINUING WORK.
- PHASE 2
11. CONSTRUCT NEW ACCESS ROAD & PARKING AREA TO TOP OF BASE MATERIAL AS SHOWN ON PHASE 2 DETAIL.
 12. INSTALL CURBING AS SHOWN ON THE PHASE 2 DETAIL.
 13. CONSTRUCT BMP AREAS AND STORM INLETS AND DRAIN AS SHOWN ON PHASE 2 DETAIL.
 14. INSTALL INLET PROTECTION AND DISCHARGE PROTECTION ON NEWLY INSTALLED STORM PIPE.
 15. CONSTRUCT MATERIALS STAGING AREA IN THE LOCATION SHOWN ON PHASE 2 DETAIL.
 16. FEATHER EXISTING GRAVEL ROAD INTO NEW GRAVEL AREA.
 17. MOVE EXISTING WHEEL STOPS TO NEW LOCATION SHOWN ON PHASE 2 DETAIL.
 18. CONNECT SIDEWALK FROM EXISTING TRAILERS TO THE NEW GRAVEL PARKING AREA AND ENSURE THAT THE GRADES MEET ADA REQUIREMENTS.
 19. INSTALL PUBLIC ACCESS SIGN AT THE NEW ENTRANCE AT LOCATION SHOWN ON PHASE 2 DETAIL.
 20. INSTALL CONSTRUCTION TRAFFIC YIELD TO PUBLIC TRAFFIC AT LOCATION SHOWN ON PHASE 2 DETAIL.
 21. ALL WORK IN PHASE 2 SHALL BE COORDINATED WITH PARK STAFF TO BE COMPLETED WHEN ACCESS TO THE EXISTING TRAILERS IS NOT REQUIRED.
- PHASE 3
22. DEMOLISH GRAVEL ROAD TO THE SOUTH OF THE NEWLY CONSTRUCTED GRAVEL ENTRANCE & PARKING. RESTORE ROAD BED AREA AS REQUIRED.
 23. DEMOLISH EXISTING SIDEWALK AROUND BARRACKS BUILDING.
 24. PERFORM INTERIOR BUILDING RENOVATION.
 25. CONSTRUCT WATER TREATMENT BUILDING, TREATMENT SYSTEM, & NEW WATER LINE TO THE BARRACKS.
 26. CONSTRUCT SEPTIC SYSTEM COMPONENTS AS SHOWN ON PHASE 3 DETAIL. ENSURE THAT THE EXISTING SEPTIC FROM TRAILERS IS STILL IN SERVICE UNTIL THEY ARE REMOVED IN PHASE 4.
 27. INSTALL ADDITIONAL STORM DRAIN AND INLETS AS SHOWN ON PHASE 3 DETAIL.
 28. INSTALL EQUIPMENT PADS AS SHOWN ON PHASE 3 DETAIL.
 29. INSTALL SIDEWALK AS SHOWN ON PHASE 3 DETAIL.
 30. MOVE WHEEL STOPS TO LOCATION SHOWN ON PHASE 3 DETAIL.
 31. RESTORE AREAS AROUND BARRACKS BUILDING AND ENSURE THAT HEALTH AND SAFETY REQUIREMENTS ARE MET TO OBTAIN CO FOR USE OF THE BUILDING.
 32. INSTALL PERMANENT SIGNAGE AT ENTRANCE. SEE ARCH. PLANS FOR SIGN DETAILS.
- PHASE 4
33. REMOVE EXISTING TRAILERS AND DEMOLISH/ABANDON ALL CONNECTED UTILITIES. COORDINATE DEMOLITION WITH COUNTY STAFF TO ENSURE THAT INTERIOR FURNISHINGS ARE RELOCATED PRIOR TO DEMOLITION.
 34. ABANDON EXISTING SEPTIC SYSTEM PER HEALTH DEPARTMENT REQUIREMENTS.
 35. CONSTRUCT SOUTHERN PORTION OF THE PERVIOUS PAVEMENT ON PHASE 4 DETAIL. FENCE OFF AREA FROM CONSTRUCTION TRAFFIC.
 36. COMPLETE THE REMAINING GRADING FOR THE DRIVE & SIDEWALK AREAS AS SHOWN ON PHASE 4 DETAIL.
 37. COMPLETE THE PAVING AS SHOWN ON PHASE 4 DETAIL.
 38. INSTALL PARKING STRIPES ON THE SOUTH SIDE OF THE DRIVE.
 39. DEMOLISH GRAVEL DRIVE NORTH OF THE CONSTRUCTED GRAVEL PARKING AREA & RESTORE AREA.
 40. REMOVE CONSTRUCTION TRAFFIC SIGNS.
- PHASE 5
41. COMPLETE THE PERVIOUS PAVEMENT SECTION ON THE NORTH SIDE OF THE DRIVE.
 42. COMPLETE THE REMAINING SIDEWALK ON THE NORTH SIDE OF THE DRIVE.
 43. INSTALL PARKING STRIPES, SIGNS & WHEEL STOPS ON THE NORTH SIDE OF THE DRIVE. PERFORM FINAL FINE GRADING.
 44. INSTALL LANDSCAPING IN BIO-RETENTION PONDS.
 45. GRADE THE DISTURBED SITE AND SEED ALL DISTURBED GRASS AREA. INSTALL TEMPORARY SOIL STABILIZATION MATTING.
 46. UPON COMPLETION OF ALL PROPOSED CONSTRUCTION WORK, OBTAIN APPROVAL FROM THE EROSION AND SEDIMENT CONTROL INSPECTOR.
 47. REMOVE ALL TEMPORARY EROSION & SEDIMENT CONTROL MEASURES.



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ARCHITECTS
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Telephone Number: 410-234-8444

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SUITE 310
OWINGS MILLS, MD 21117
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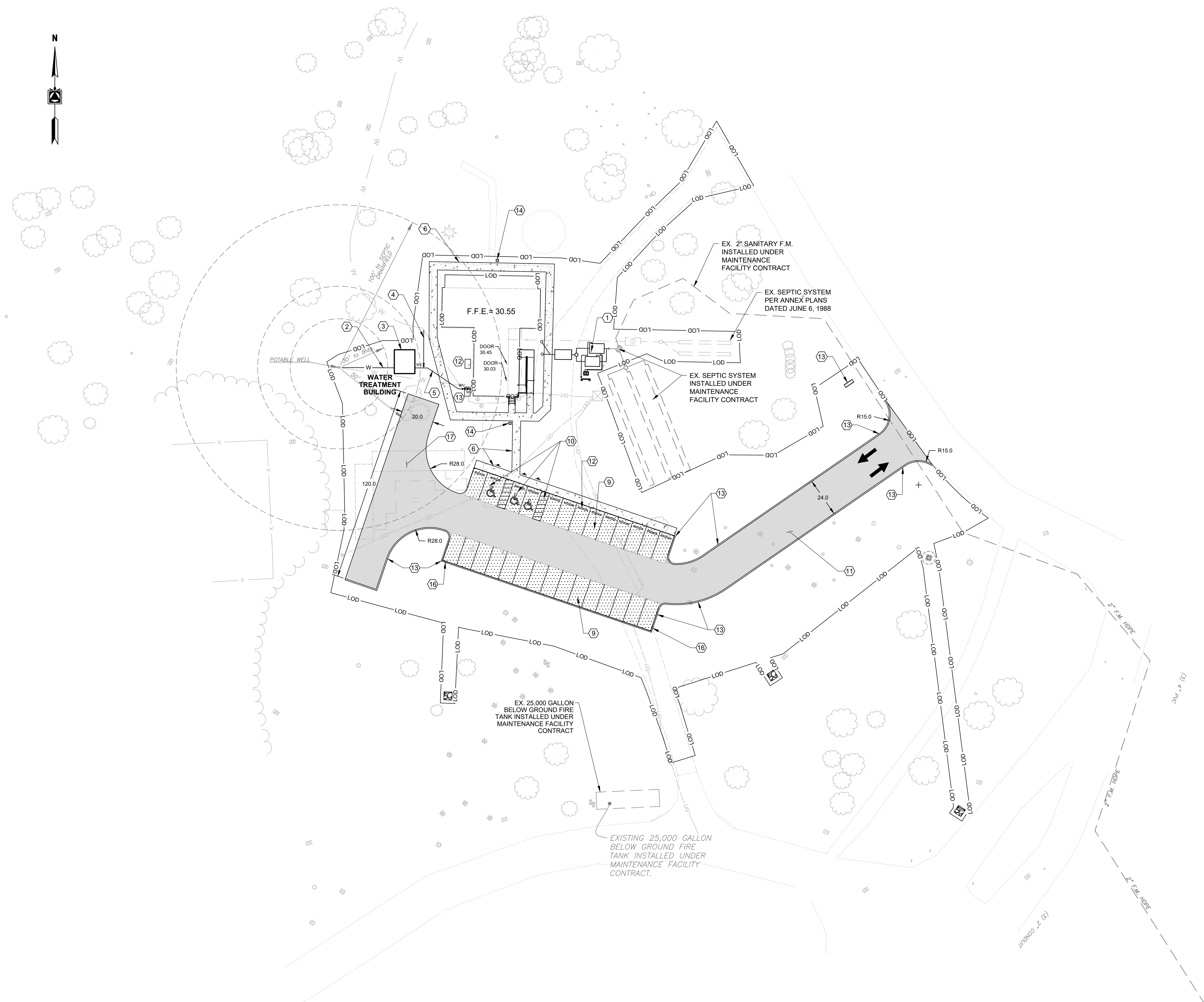
NO.	DESCRIPTION	BY	DATE

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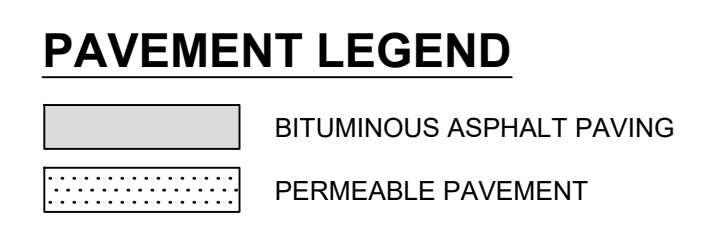
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APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

SCALE: AS NOTED	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122
DRAWN BY: KW	CONSTRUCTION PHASING PLAN
CHECKED BY: KW	
SHEET NO. 7 OF 65	
PROJECT NO. P535900	C-301
CONTRACT NO. P5359008	



- CONSTRUCTION NOTES:**
- ① FOR DETAILS & CONSTRUCTION OF THE SEPTIC SYSTEM COMPONENTS, SEE SHEET C304.
 - ② INSTALL 2" WATER LINE FROM EXISTING WELL TO NEW WATER TREATMENT BUILDING.
 - ③ CONSTRUCT WATER TREATMENT BUILDING. SEE DETAILS ON ARCHITECTURAL PLANS.
 - ④ LOCATE EX. WATER LINE TO RESTROOM FACILITY AND CONNECT. INSTALL 1" WATER LINE FROM PROPOSED WATER LINE & INSTALL ISOLATION VALVES & METER. SEE SHEET P101 FOR CONTINUATION.
 - ⑤ INSTALL 2" WATER LINE FROM TREATMENT BUILDING TO BARRACKS & INSTALL AN ISOLATION VALVE.
 - ⑥ INSTALL 5 FT. WIDE CONCRETE SIDEWALK. REFER TO SHEET C-504 FOR DETAIL.
 - ⑦ INSTALL 5' X 8.5' CONCRETE PAD FOR HVAC UNIT. SEE MECHANICAL DRAWINGS FOR DETAILS.
 - ⑧ INSTALL 3.5' X 5.6' CONCRETE PAD FOR HVAC UNIT. SEE MECHANICAL DRAWINGS FOR DETAILS.
 - ⑨ INSTALL TWENTY FIVE (25), 9' X 18' PERMEABLE PARKING SPACES.
 - ⑩ INSTALL ONE (1) 11' X 18' VAN ACCESSIBLE SPACE, (2) 9' X 18' ADA PARKING SPACES, AND TWO (2) 5' WIDE ACCESS AISLES WITH SIGNS PER DETAIL ON SHEET C504.
 - ⑪ CONSTRUCT A 24' WIDE ASPHALT ACCESS ROAD WITH CURB. REFER TO SHEET C504 FOR DETAIL.
 - ⑫ INSTALL WHEEL STOPS (TYP. 13) PER DETAIL SHEET C504
 - ⑬ INSTALL VISITOR CENTER SIGN PER ARCHITECTURAL DETAIL.
 - ⑭ INSTALL DOG LEASH TIE-UP POST PER DETAIL SHEET C504.
 - ⑮ INSTALL TYPE A STRAIGHT CURB PER DETAIL SHEET C504.
 - ⑯ INSTALL DRAINAGE FLUME IN CURB.
 - ⑰ INSTALL ASPHALT FIRE TURN AROUND PER DETAIL SHEET C504.



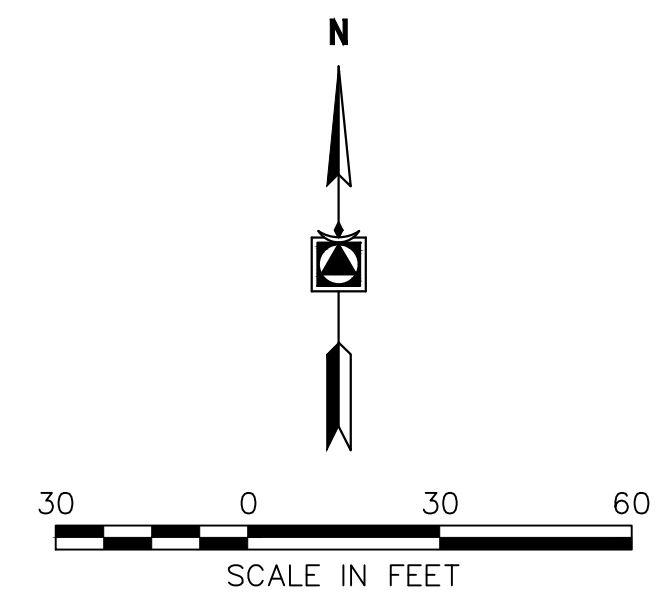
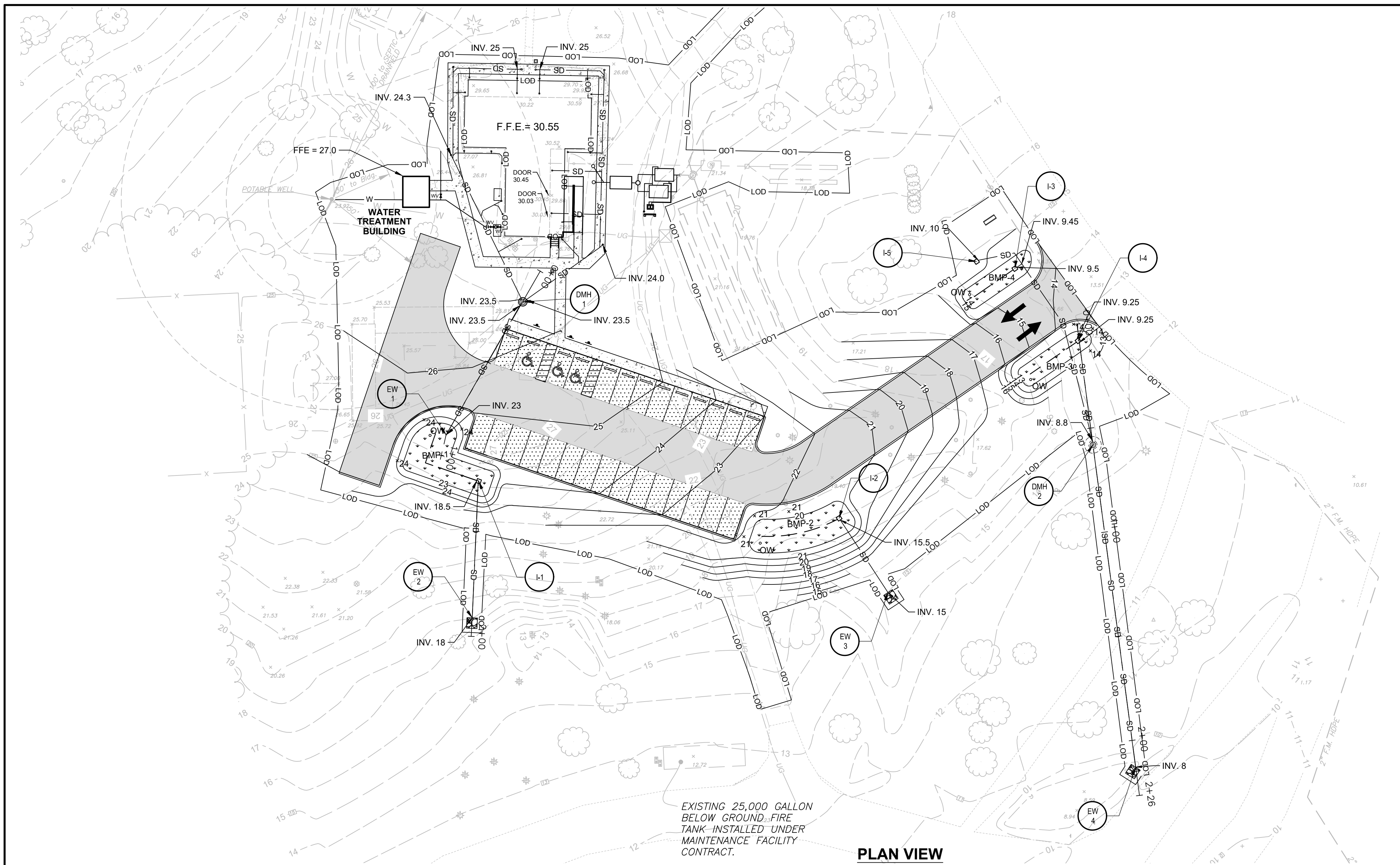
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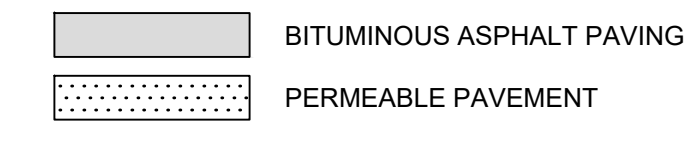
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY				DATE: 9-25-2023
DEPARTMENT OF PUBLIC WORKS				
APPROVED _____	DATE _____	APPROVED _____	DATE _____	SCALE: AS NOTED
CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: SJM
APPROVED _____	DATE _____	APPROVED _____	DATE _____	CHECKED BY: KW
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY		SHEET NO. 8 OF 65
				PROJECT NO. P535900
				CONTRACT NO. P535908

SITE PLAN **C-302**



PAVEMENT LEGEND



STORM MANHOLE SCHEDULE

STRUC. ID	RIM ELEV.	BOTTOM ELEV.	IN INV. ELEV.	OUT INV. ELEV.	DETAIL REF.	DESCRIPTION
DMH-1	27	23	-	8" PVC - 23.5	MD 383.00	STORM MANHOLE
DMH-2	14	8.5	-	12" PVC - 8.8	MD 383.00	STORM MANHOLE

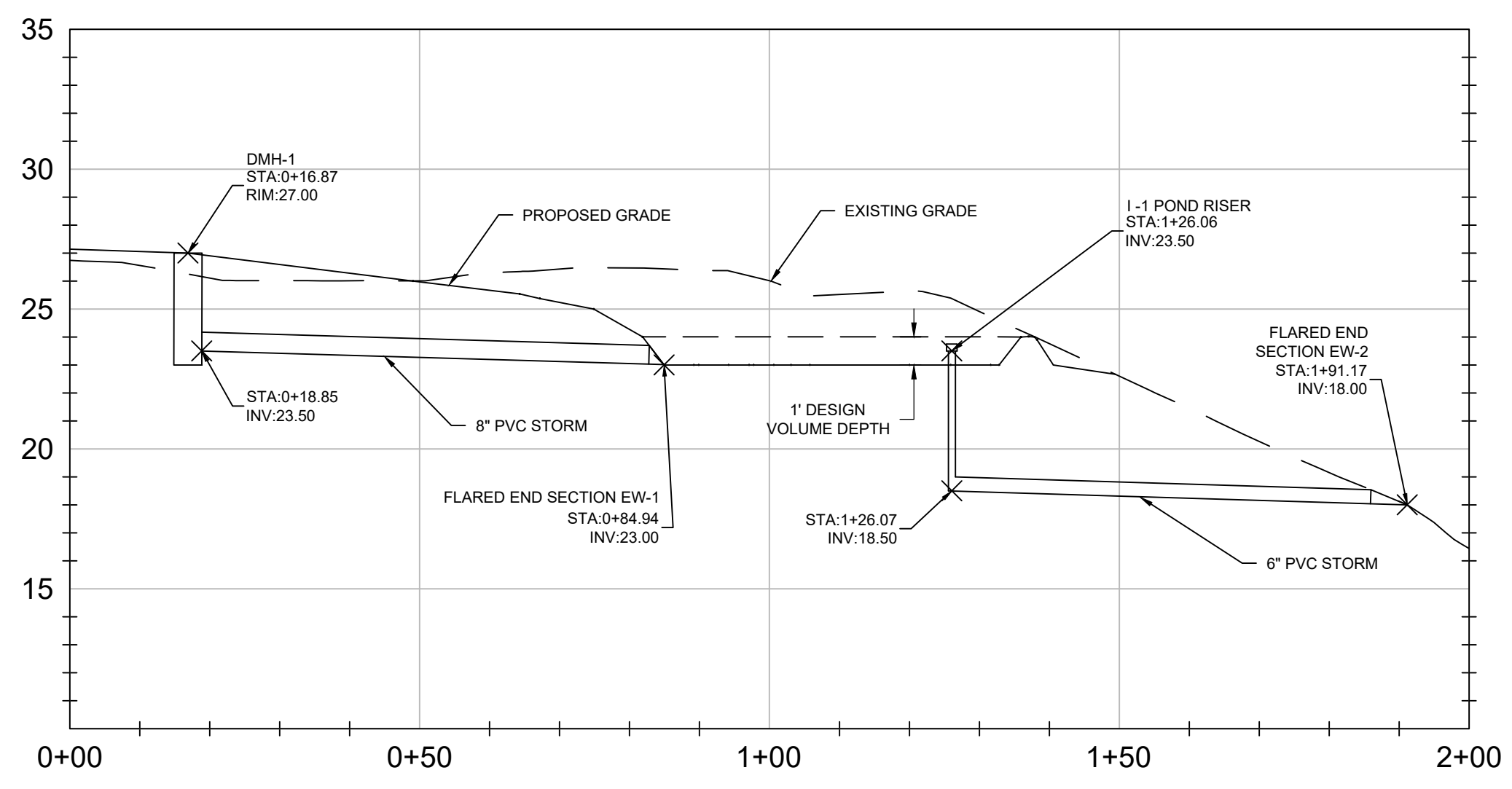
STORM INLET SCHEDULE

STRUC. ID	RIM ELEV.	BOTTOM ELEV.	IN INV. ELEV.	OUT INV. ELEV.	DETAIL REF.	DESCRIPTION
I-1	23.5	18	6" PERF. PVC - 18.5	6" PVC - 18.5	NRCS ES-150	POND RISER
I-2	20.5	15	6" PERF. PVC - 15.5	6" PVC - 15.5	NRCS ES-150	POND RISER
I-3	13.5	9	6" PERF. PVC - 9.5	6" PVC - 9.5	NRCS ES-150	POND RISER
I-4	12.5	8	6" PERF. PVC - 8.5	6" PVC - 9.25	NRCS ES-150	POND RISER
I-5	14.9	9	-	8" PVC - 10.0	MD 381.02	PRECAST YARD INLET

END WALL SCHEDULE

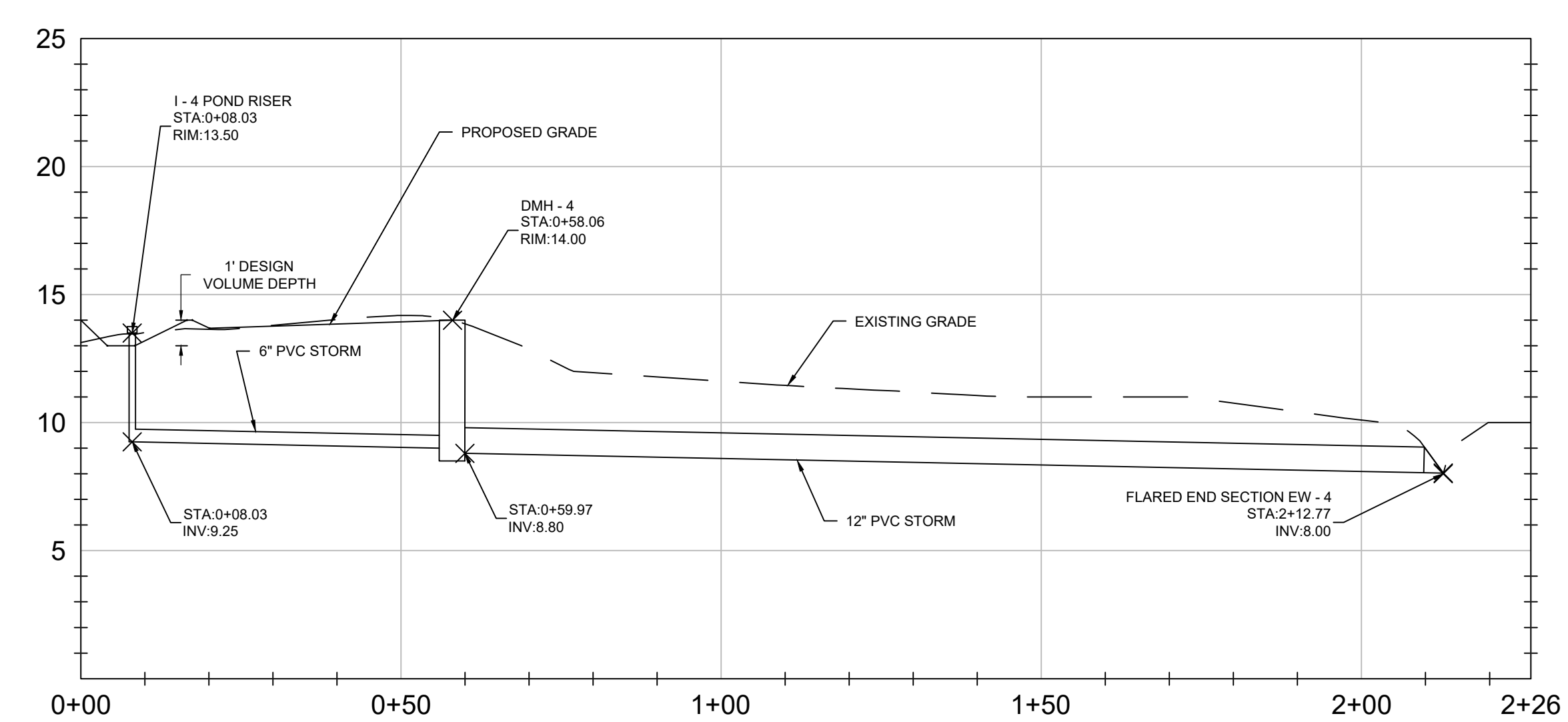
STRUC. ID	RIM ELEV.	INV. ELEV.	DETAIL REF.	DESCRIPTION
EW-1	23.67	6" PVC - 23	-	ADS FLARED END SECTION
EW-2	18.5	6" PVC - 18	-	ADS FLARED END SECTION
EW-3	15.5	6" PVC - 15	-	ADS FLARED END SECTION
EW-4	9	12" PVC - 8	-	ADS FLARED END SECTION

PLAN VIEW
SCALE: 1" = 30'



STORM DRAIN PROFILE DMH - 1 TO EW - 2

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'



STORM DRAIN PROFILE I - 4 TO EW - 4

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'

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ARCHITECTS
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227-1044
Telephone Number: 410-234-8444

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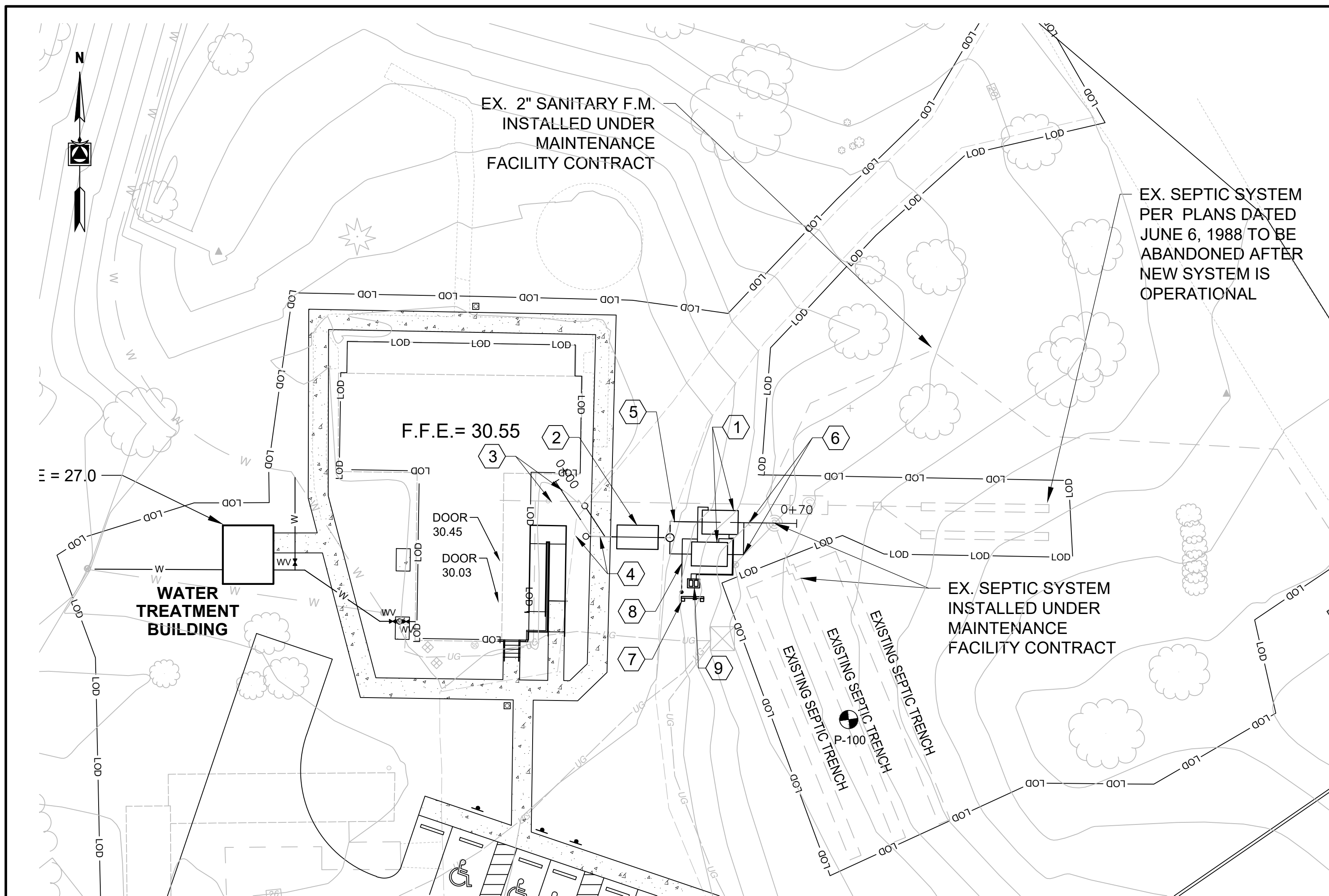
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APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS NOTED
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: SJM
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: KW
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	SHEET NO. 9 OF 65
		PROJECT NO. P535900
		CONTRACT NO. P535908

GRADING & DRAINAGE PLAN

C-303

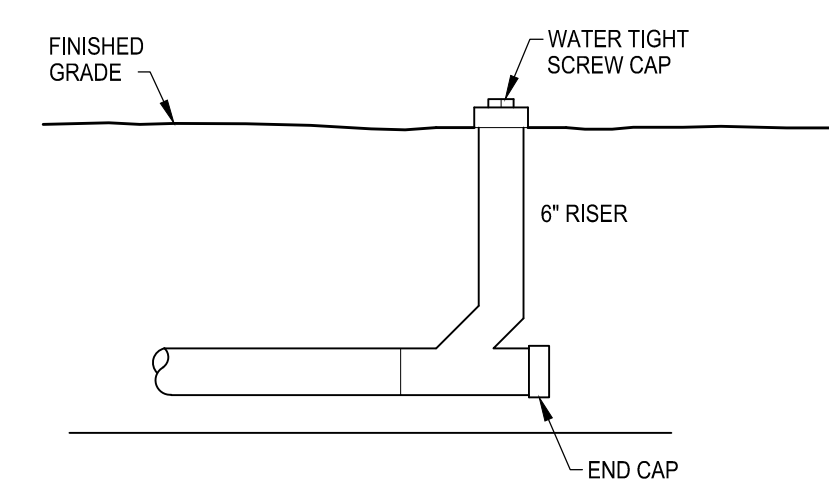
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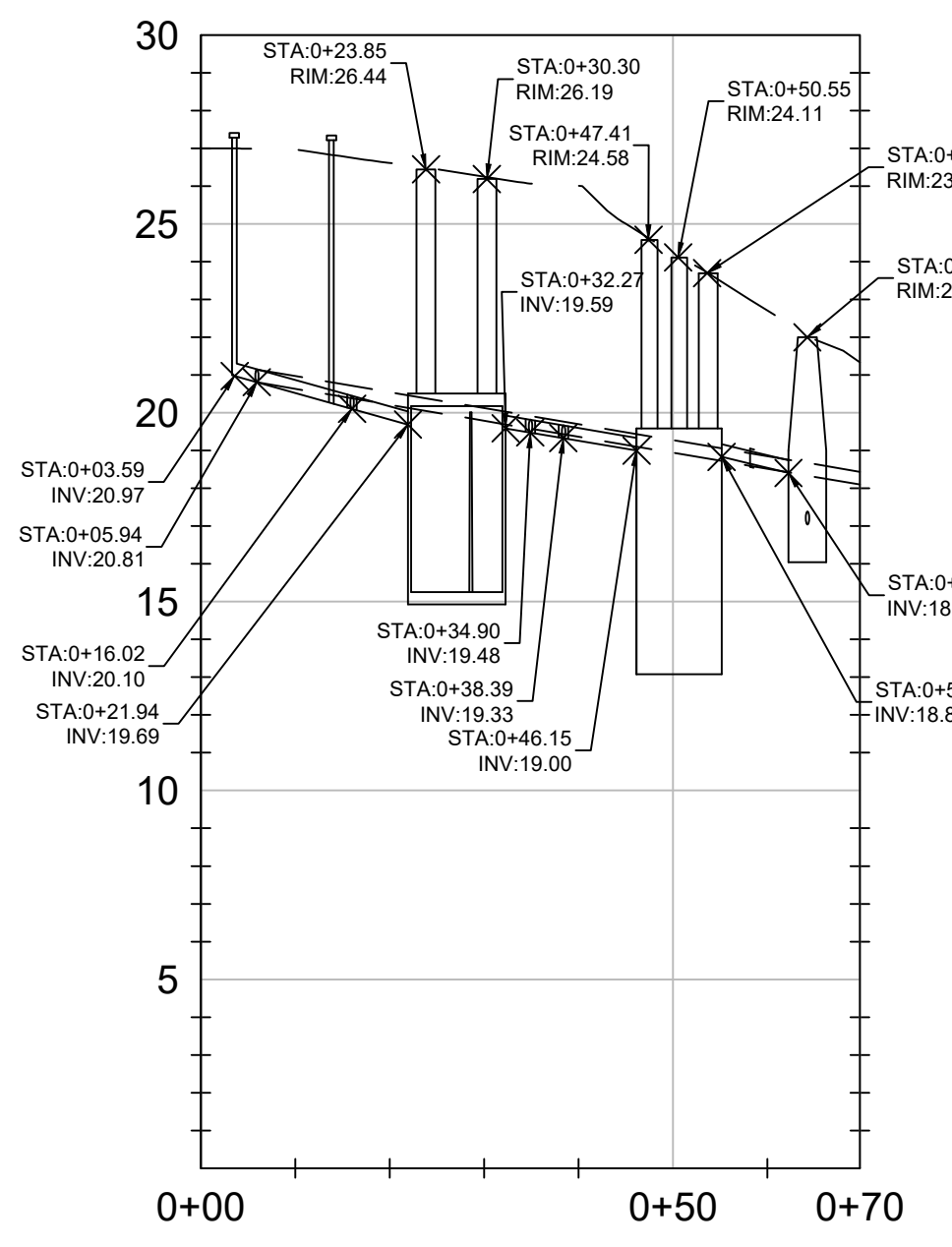
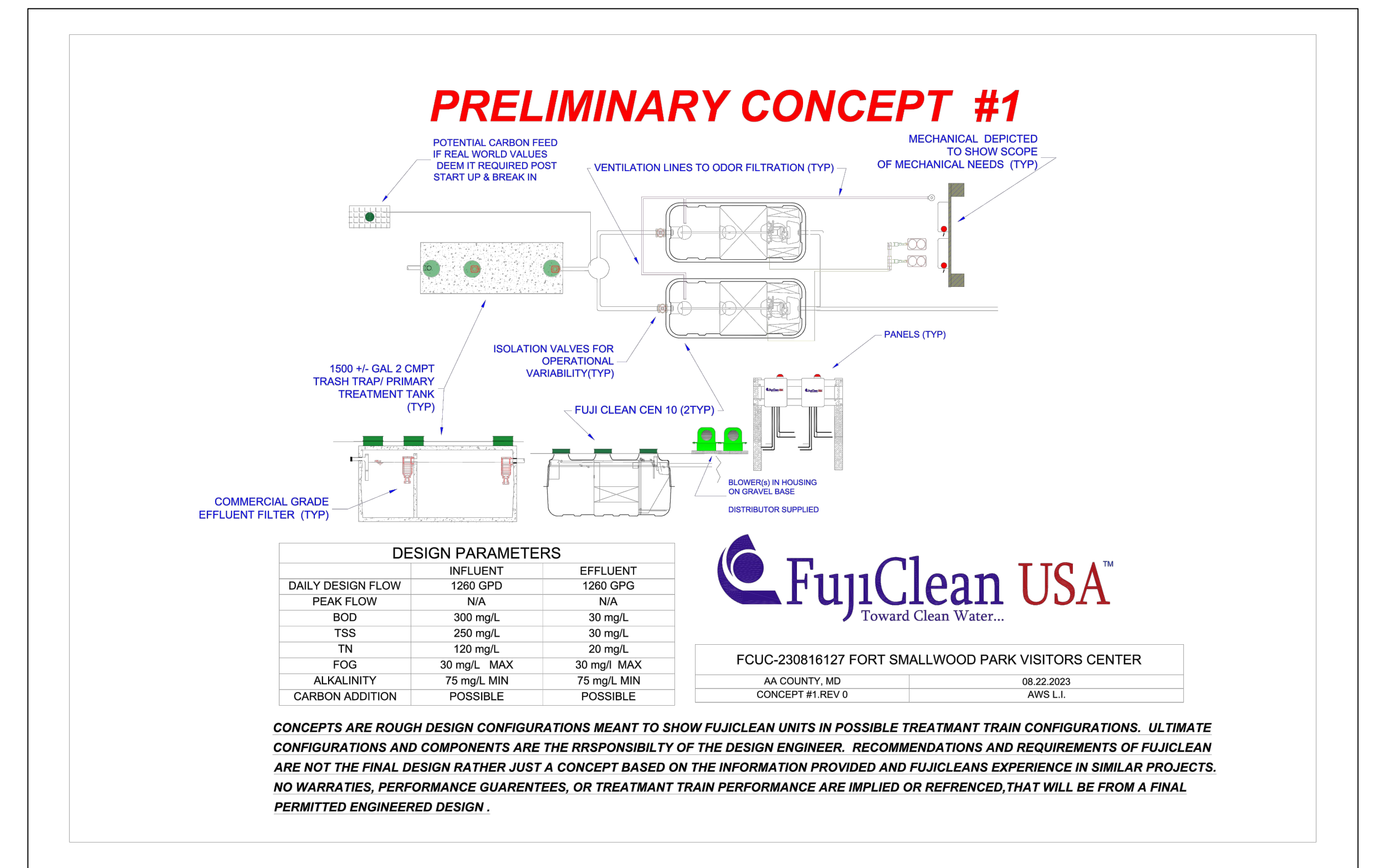
VISITOR'S CENTER SEPTIC PLAN
SCALE: 1" = 20'

CONSTRUCTION NOTES:

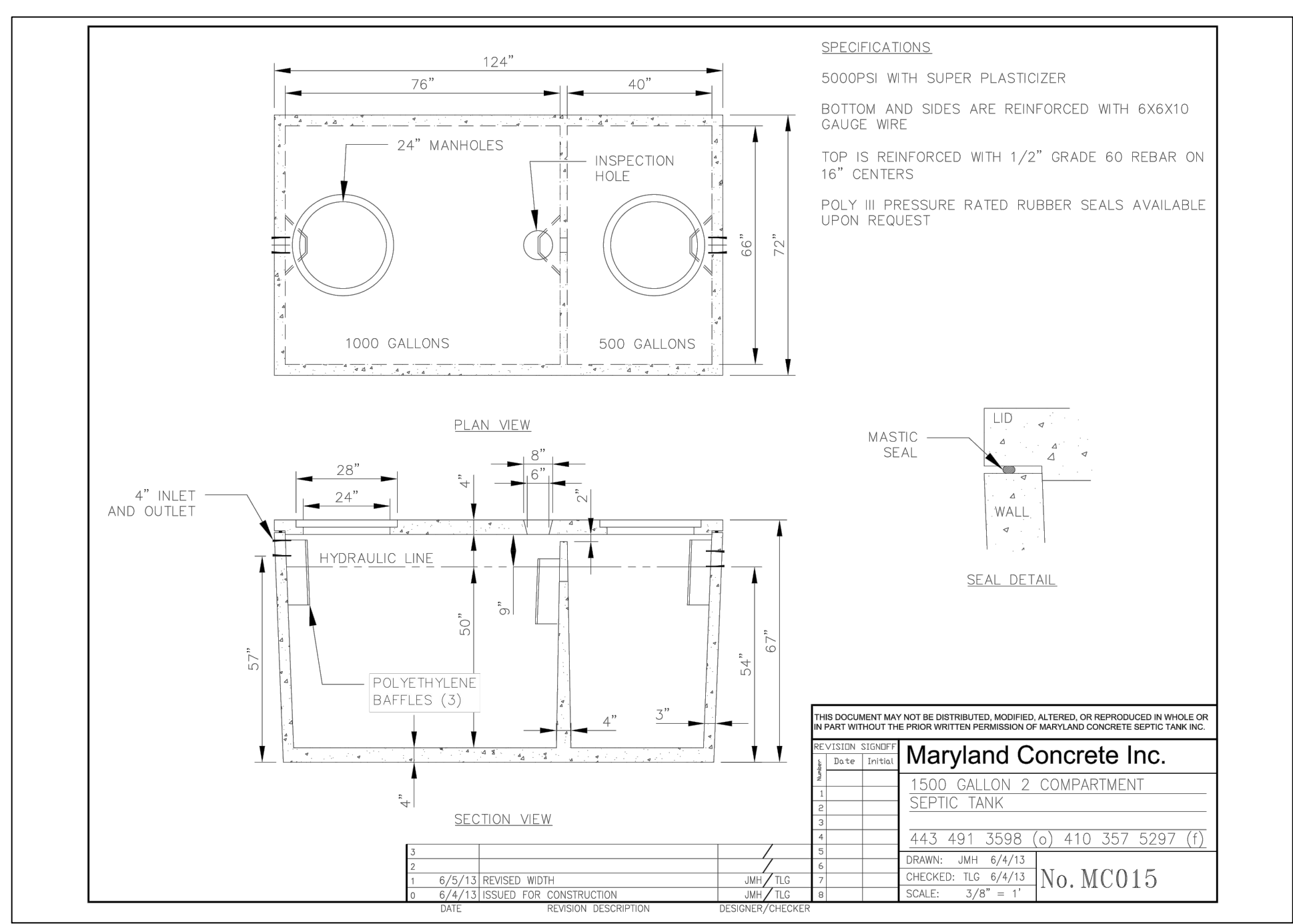
- 1 INSTALL (2) FUJICLEAN CEN10 BAT TANKS.
- 2 INSTALL 1,500 GAL. SEPTIC TANK.
- 3 INSTALL SANITARY CLEANOUT & 12 LF 4" PVC @ 3/4" PER FT & CONNECT TO EXISTING SEWER LATERAL.
- 4 INSTALL SANITARY CLEAN OUT & 10 LF 4" PVC @ 3/4" PER FT.
- 5 INSTALL 24 LF 4" PVC @ 1/2" PER FT
- 6 INSTALL 19 LF - 4" PVC @ 1" PER FT, REMOVE EXISTING CAP AND CONNECT TO EX. STUB.
- 7 INSTRUMENTATION PANELS (TYP)
- 8 VENTILATION LINES TO ODOR FILTRATION (TYP)
- 9 BLOWERS IN HOUSING ON GRAVEL BASE



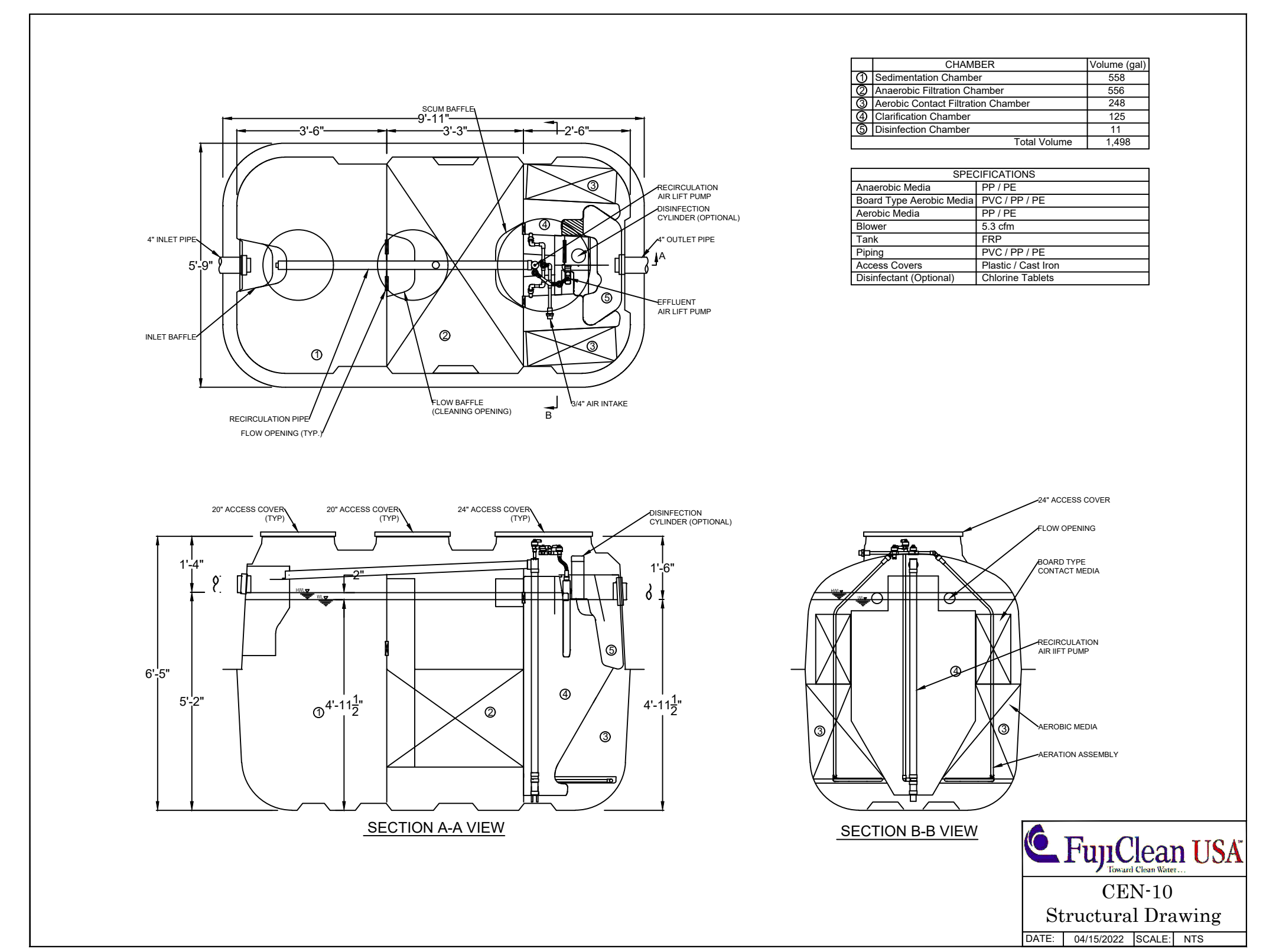
CLEANOUT
SCALE: NOT TO SCALE



VISITOR'S CENTER SEPTIC PROFILE:
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'



ST SEPTIC TANK
SCALE: (NOT TO SCALE)



FC FUJICLEAN CEN-10
SCALE: (NOT TO SCALE)

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3700 Koppers Street, Suite 300
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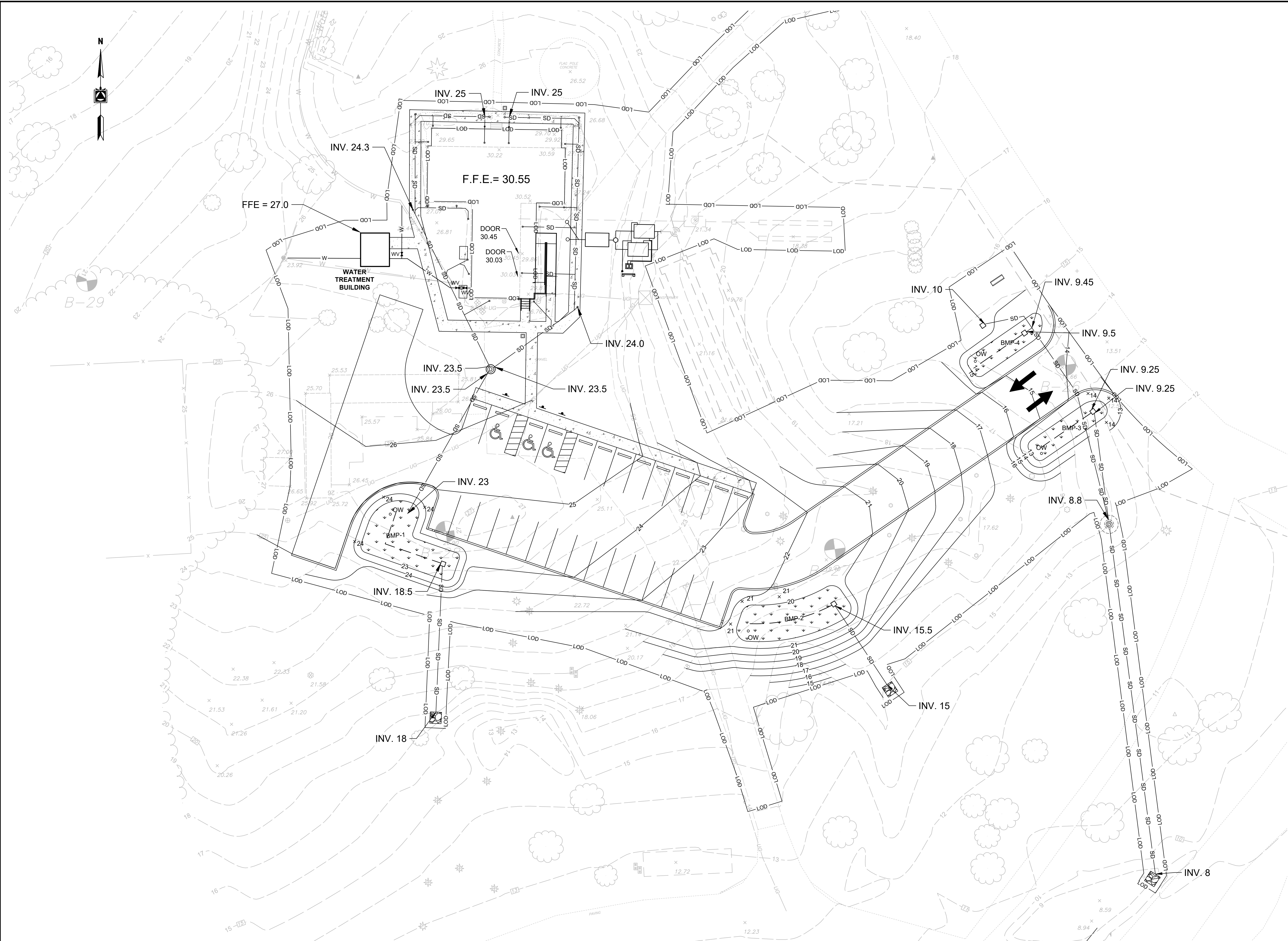
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APPROVED	DATE	APPROVED	DATE	SCALE: AS NOTED
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APPROVED	DATE	APPROVED	DATE	CHECKED BY: KW
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY		SHEET NO. 10 OF 65
				PROJECT NO. P535900
				CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER
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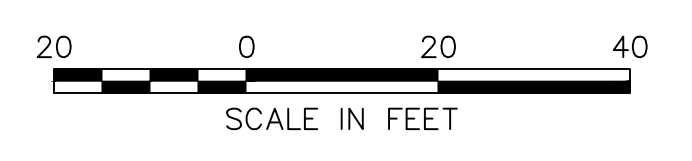
SEPTIC PLAN & DETAILS

C-304



BMP DESIGN SUMMARY			
BMP ID	BMP TYPE	PROVIDED IART (A.C.)	PROVIDED ESDv (C.F.)
BMP-1	MICRO-BIORETENTION POND	0.18	1,014
BMP-2	MICRO-BIORETENTION POND	0.10	934
BMP-3	MICRO-BIORETENTION POND	0.04	410
BMP-4	MICRO-BIORETENTION POND	0.05	435
TOTAL PROVIDED		0.37	2,793

- LEGEND**
- LOD — LIMITS OF DISTURBANCE
 - ⊙ SOIL BORING
 - SD — CLEANOUT
 - OW OBSERVATION WELL
 - ⊙ SANITARY MANHOLE
 - ⊙ DRAINAGE MANHOLE
 - DRAINAGE INLET



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NO.	DESCRIPTION	BY	DATE

APPROVED		DATE	APPROVED		DATE

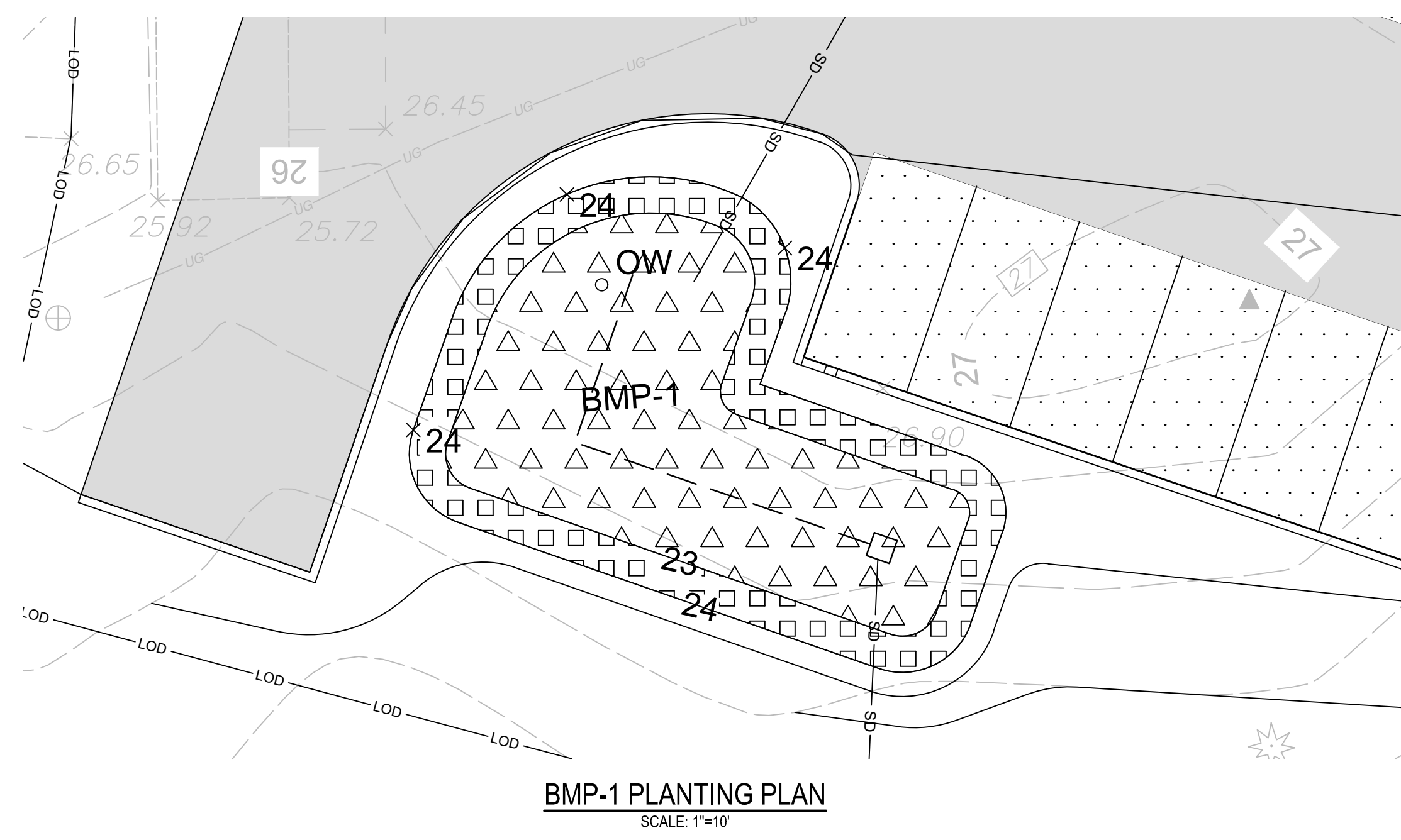
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 DATE: 9-25-2023

SCALE: AS NOTED
 DRAWN BY: CG
 CHECKED BY: KW
 SHEET NO. 11 OF 65
 PROJECT NO. P535900
 CONTRACT NO. P535908

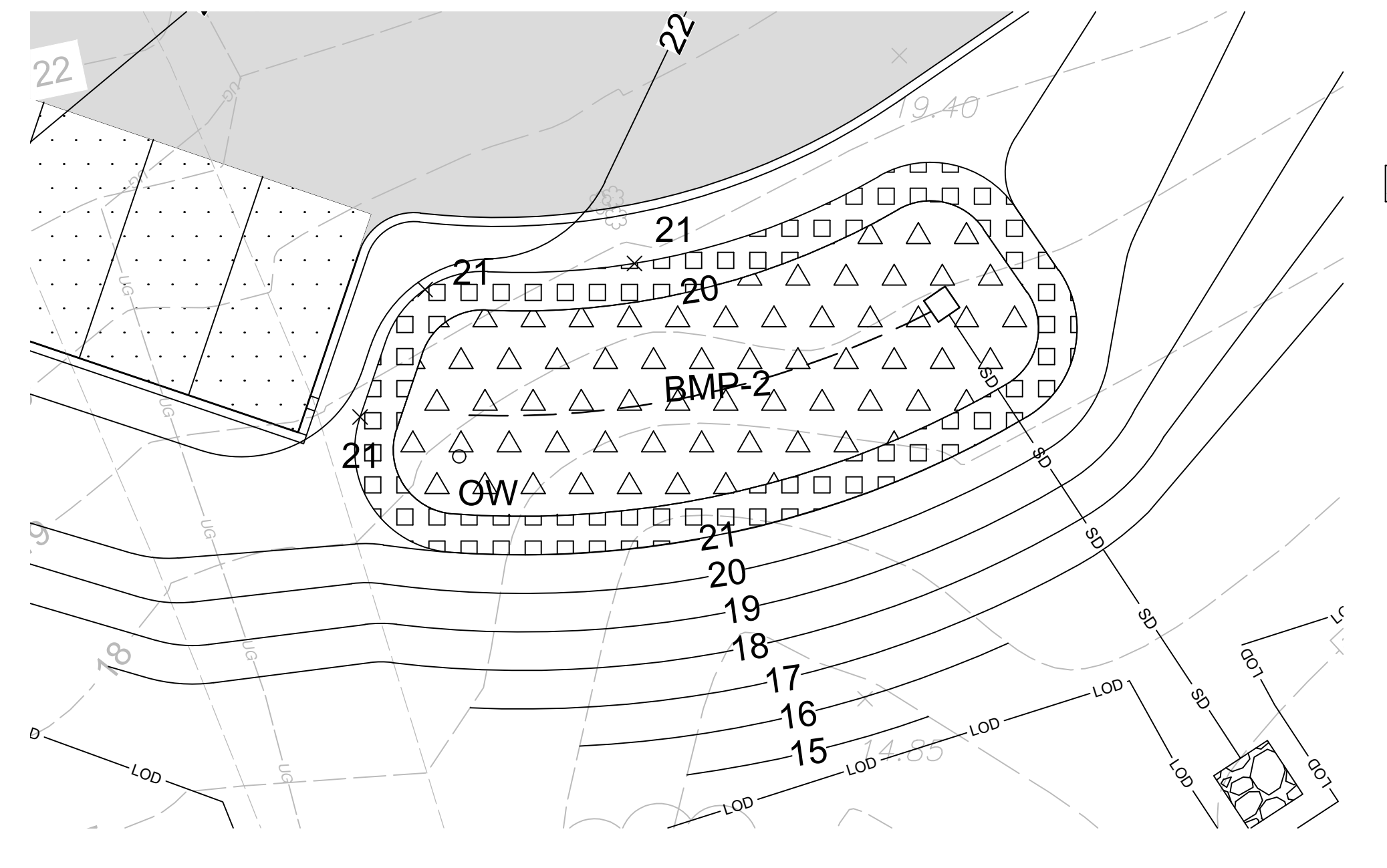
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 BARRACKS REHABILITATION/VISITOR CENTER
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**STORMWATER
 MANAGEMENT PLAN**

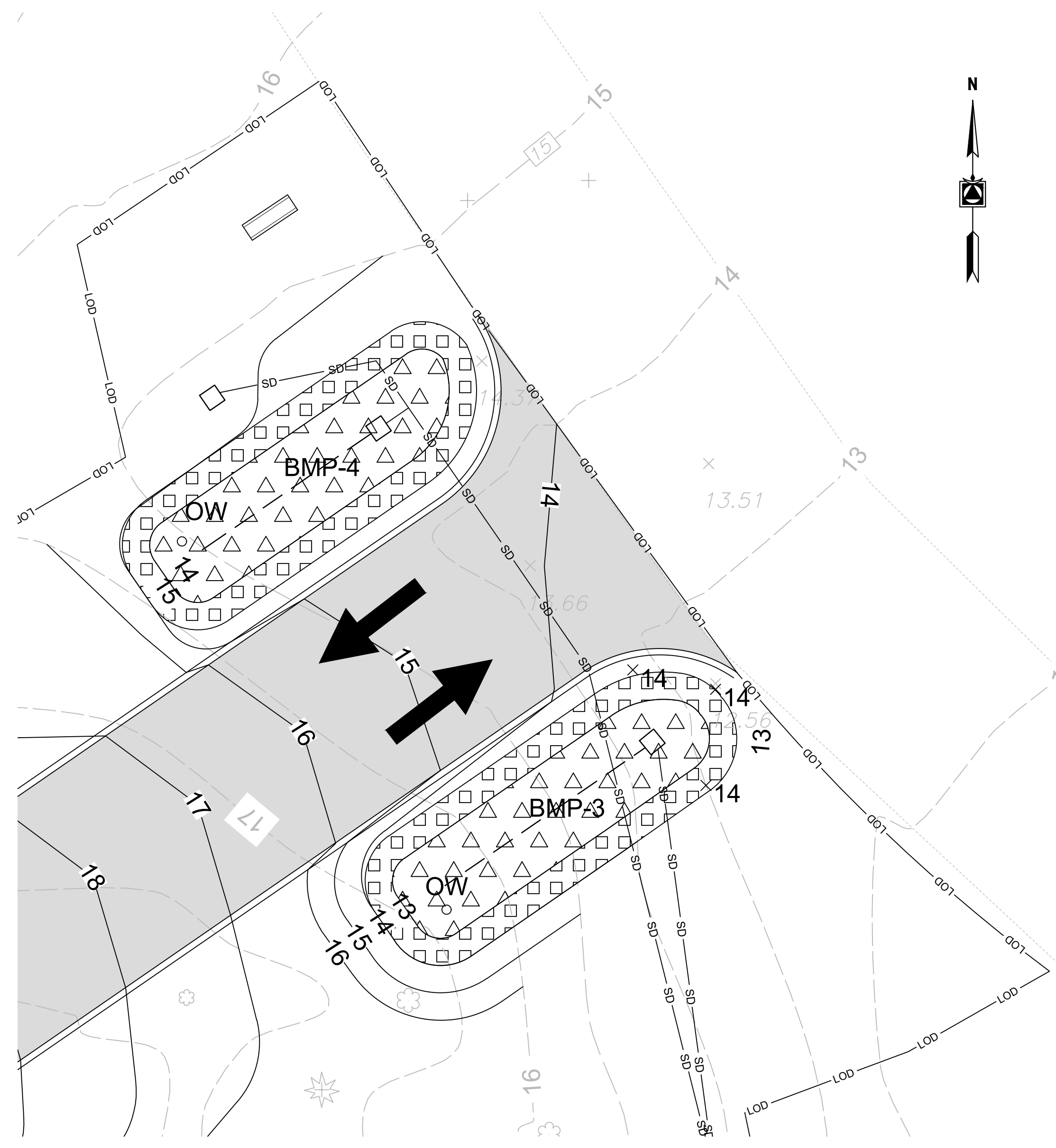
C-401



BMP-1 PLANTING PLAN
SCALE: 1"=10'



BMP-2 PLANTING PLAN
SCALE: 1"=10'



BMP-3 AND BMP-4 PLANTING PLAN
SCALE: 1"=10'

SWM FACILITIES PLANTING SCHEDULE						
FACILITY ID	KEY	AREA	BOTANICAL NAME/ COMMON NAME	SIZE	ROOT	SPACING
BMP-1	△ △	786 SF	SCIRPUS CYPERINUS WOOLGRASS	8"-12" HT.	CONTAINER	12" C/C
	□ □	411 SF	LOBELIA CARDINALIS CARDINAL FLOWER	8"-12" HT.	CONTAINER	12" C/C
BMP-2	△ △	767 SF	SCIRPUS CYPERINUS WOOLGRASS	8"-12" HT.	CONTAINER	12" C/C
	□ □	394 SF	LOBELIA CARDINALIS CARDINAL FLOWER	8"-12" HT.	CONTAINER	12" C/C
BMP-3	△ △	369 SF	SCIRPUS CYPERINUS WOOLGRASS	8"-12" HT.	CONTAINER	12" C/C
	□ □	299 SF	LOBELIA CARDINALIS CARDINAL FLOWER	8"-12" HT.	CONTAINER	12" C/C
BMP-4	△ △	364 SF	SCIRPUS CYPERINUS WOOLGRASS	8"-12" HT.	CONTAINER	12" C/C
	□ □	297 SF	LOBELIA CARDINALIS CARDINAL FLOWER	8"-12" HT.	CONTAINER	12" C/C



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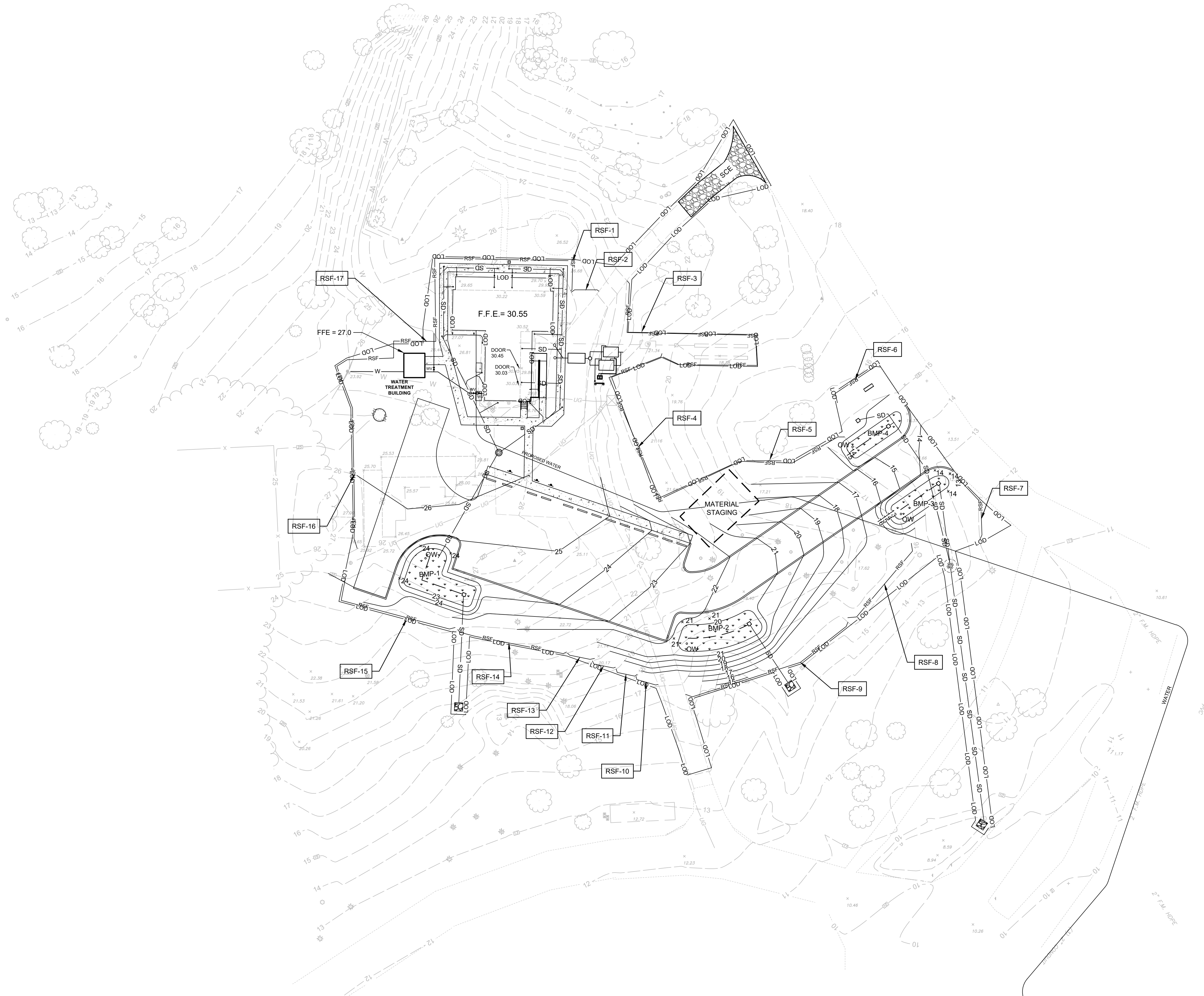
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APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS NOTED
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: SJM
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: KW
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	SHEET NO. 12 OF 65
		PROJECT NO. P535900
		CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
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SWM BMP AREA
LANDSCAPE PLAN

C-402



LEGEND

- LOD — LIMITS OF DISTURBANCE
- RSF — REINFORCED SILT FENCE
- SFOP — SILT FENCE ON PAVEMENT
- TPF — TREE PROTECTION FENCING
- [- - -] CONSTRUCTION MATERIAL STAGING AREA
- (S) SANITARY MANHOLE
- (D) DRAINAGE MANHOLE
- SD — CLEANOUT
- OW OBSERVATION WELL
- [Hatched Box] STABILIZED CONSTRUCTION ENTRANCE

EROSION AND SEDIMENT CONTROL FENCE DESIGN DATA

FENCE NO.	FENCE LENGTH	SLOPE STEEPNESS	SLOPE LENGTH
RSF-1	62'	1.67%	60'
RSF-2	17'	1.69%	59'
RSF-3	185'	8.43%	83'
RSF-4	168'	8.41%	107'
RSF-5	68'	5.77%	156'
RSF-6	38'	2.53%	79'
RSF-7	41'	8.54%	82'
RSF-8	62'	5.97%	67'
RSF-9	110'	6.49%	154'
RSF-10	15'	6.49%	154'
RSF-11	15'	4.76%	189'
RSF-12	15'	8.33%	84'
RSF-13	17'	8.70%	69'
RSF-14	68'	6.15%	65'
RSF-15	85'	5.06%	79'
RSF-16	99'	6.25%	154'
RSF-17	174'	2.86%	70'
SFOP-1	12'	3.13%	16'



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 Baltimore, Maryland 21227-1044
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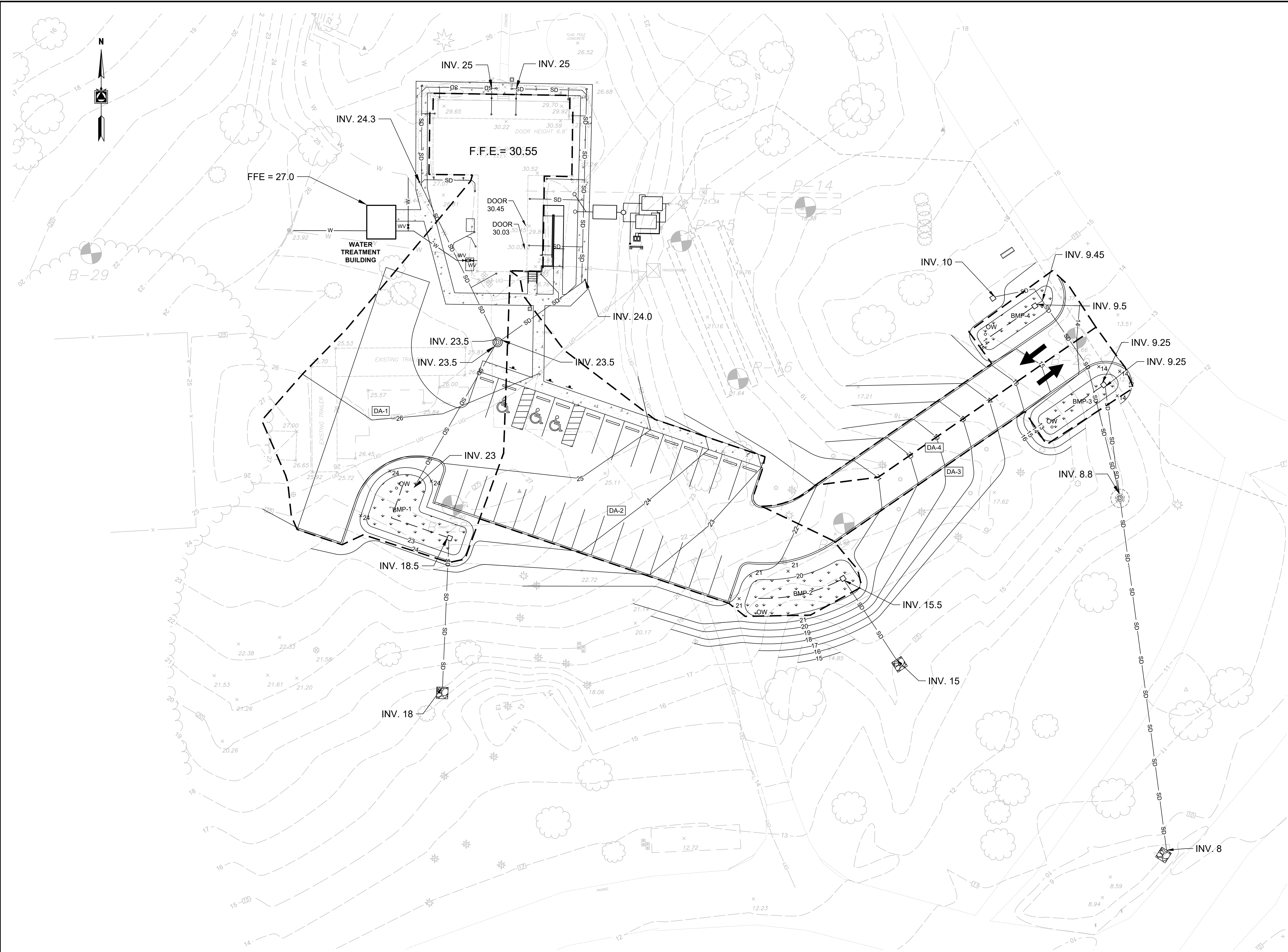
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CHIEF ENGINEER _____	PROJECT MANAGER _____	CHECKED BY: KW
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SHEET NO. 13 OF 65
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	PROJECT NO. P535900
		CONTRACT NO. P535908

EROSION & SEDIMENT CONTROL PLAN

C-403

FORT SMALLWOOD PARK PHASE IIB
 BARRACKS, REHABILITATION/VISITOR CENTER
 9500 FORT SMALLWOOD ROAD
 PASADENA, MD 21122



BMP DESIGN SUMMARY			
DA ID	BMP ID	BMP TYPE	DRAINAGE AREA (S.F.)
DA-1	BMP-1	MICRO-BIORETENTION POND	14,155
DA-2	BMP-2	MICRO-BIORETENTION POND	10,286
DA-3	BMP-3	MICRO-BIORETENTION POND	2,740
DA-4	BMP-4	MICRO-BIORETENTION POND	2,850

LEGEND

- DRAINAGE SUBBASIN AREA
- ⊙ SOIL BORING
- OW OBSERVATION WELL
- ⊙ S SANITARY MANHOLE
- ⊙ D DRAINAGE MANHOLE



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APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: KW
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	SHEET NO. 14 OF 65
		PROJECT NO. P535900
		CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
 BARRACKS REHABILITATION/VISITOR CENTER
 9500 FORT SMALLWOOD ROAD
 PASADENA, MD 21122

SWM DRAINAGE AREA
MAP

C-404

B.4.C Specifications for Micro-Bioretentation, Rain Gardens, Landscape Infiltration & Infiltration Berms

1. Material Specifications

The allowable materials to be used in these practices are detailed in Table B.4.1.

2. Filtering Media or Planting Soil

The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the micro-bioretentation practice that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The planting soil shall be free of Bermuda grass, Quackgrass, Johnson grass, or other noxious weeds as specified under COMAR 15.08.01.05.

The planting soil shall be tested and shall meet the following criteria:

- Soil Component - Loamy Sand or Sandy Loam (USDA Soil Textural Classification)
- Organic Content - Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture of loamy sand (60%-65%) and compost (35% to 40%) or sandy loam (30%), coarse sand (30%), and compost (40%).
- Clay Content - Media shall have a clay content of less than 5%.
- pH Range - Should be between 5.5 - 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed into the soil to increase or decrease pH.

There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textural analysis is required from the site stockpiled topsoil. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was excavated.

3. Compaction

It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation hoes to remove original soil. If practices are

excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design failure.

Compaction can be alleviated at the base of the bioretention facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to restructure the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base.

When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

4. Plant Material

Recommended plant material for micro-bioretentation practices can be found in Appendix A, Section A.2.3.

5. Plant Installation

Compost is a better organic material source, is less likely to float, and should be placed in the invert and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch. Pine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance.

Rootstock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8" of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process. Thoroughly water ground bed cover after installation.

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball.

Grasses and legume seed should be drilled into the soil to a depth of at least one inch. Grass and legume plugs shall be planted following the non-grass ground cover planting specifications.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling. The primary function of the bioretention structure is to improve water quality. Adding fertilizers defeats, or at a minimum, impedes this goal. Only add fertilizer if wood chips or mulch are used to amend the soil. Rototill urea fertilizer at a rate of 2 pounds per 1000 square feet.

6. Underdrains

Underdrains should meet the following criteria:

- Pipe- Should be 4" to 6" diameter, slotted or perforated rigid plastic pipe (ASTMF 758, Type PS 28, or AASHTO-M-278) in a gravel layer. The preferred material is slotted, 4" rigid pipe (e.g., PVC or HDPE).
- Perforations - If perforated pipe is used, perforations should be 3/8" diameter located 6" on center with a minimum of four holes per row. Pipe shall be wrapped with a 1/4" (No. 4 or 4x4) galvanized hardware cloth.
- Gravel - The gravel layer (No. 57 stone preferred) shall be at least 3" thick above and below the underdrain.
- The main collector pipe shall be at a minimum 0.5% slope.
- A rigid, non-perforated observation well must be provided (one per every 1,000 square feet) to provide a clean-out port and monitor performance of the filter.
- A 4" layer of pea gravel (3/8" to 3/4" stone) shall be located between the filter media and underdrain to prevent migration of fines into the underdrain. This layer may be considered part of the filter bed when bed thickness exceeds 24".

The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%. Observation wells and/or clean-out pipes must be provided (one minimum per every 1000 square feet of surface area).

7. Miscellaneous

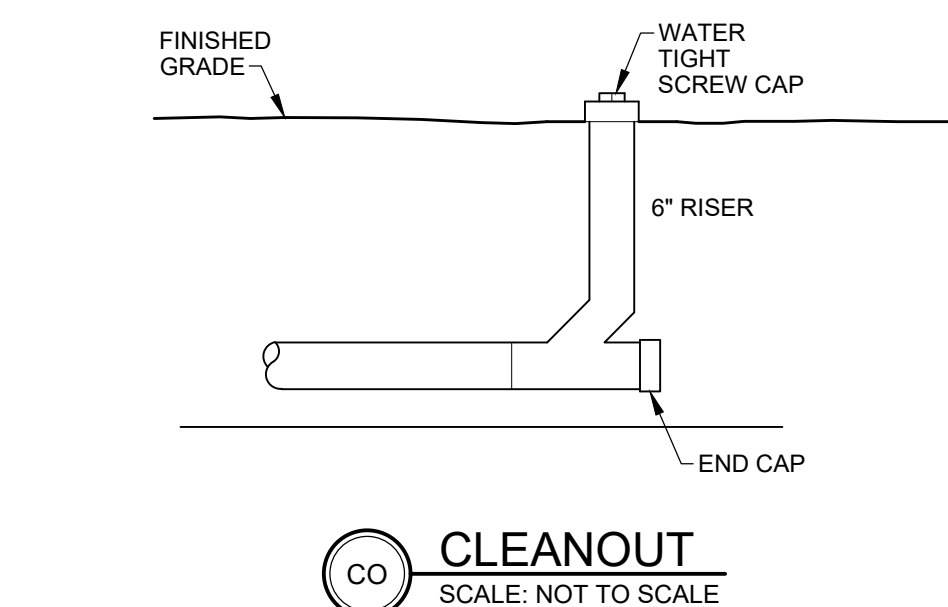
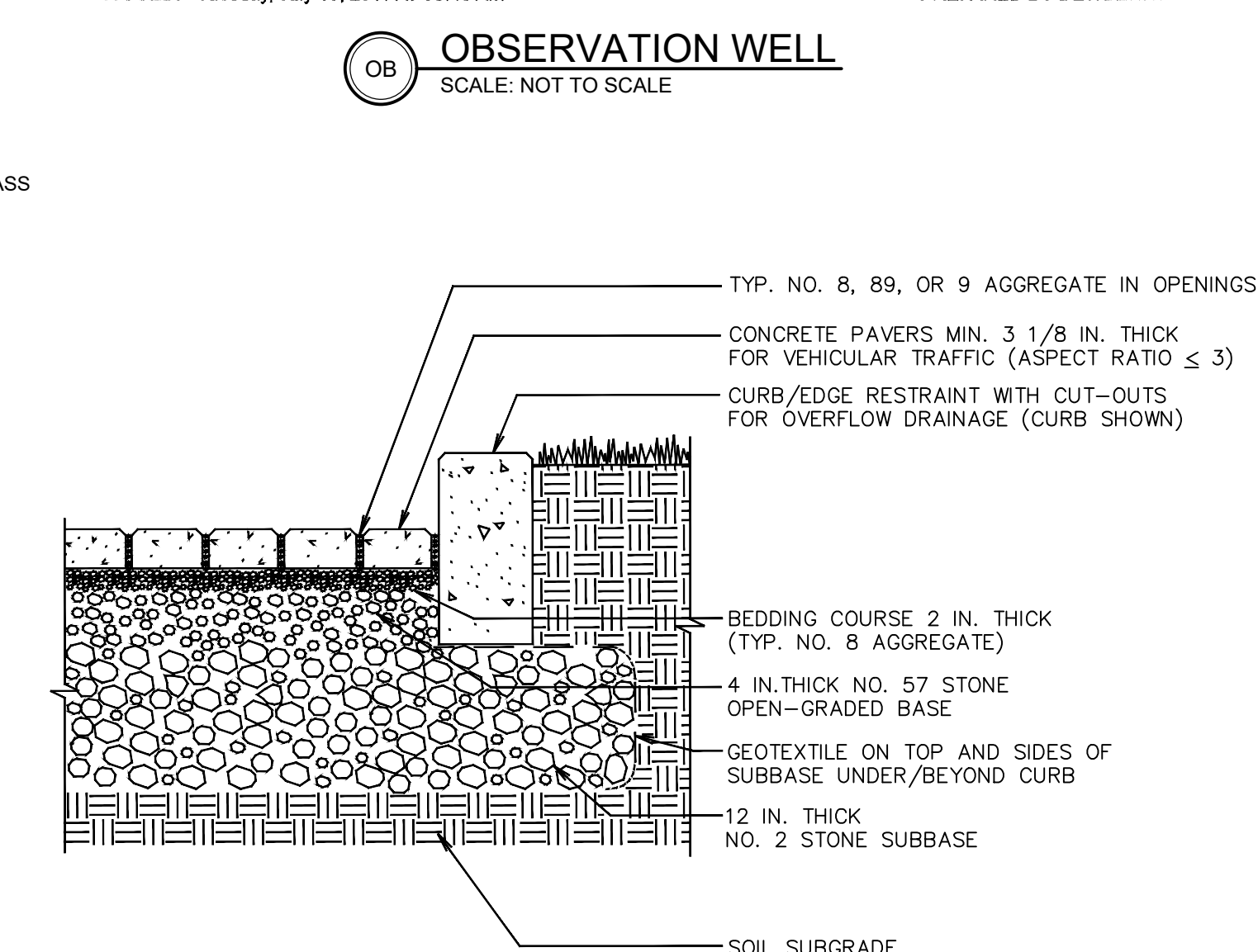
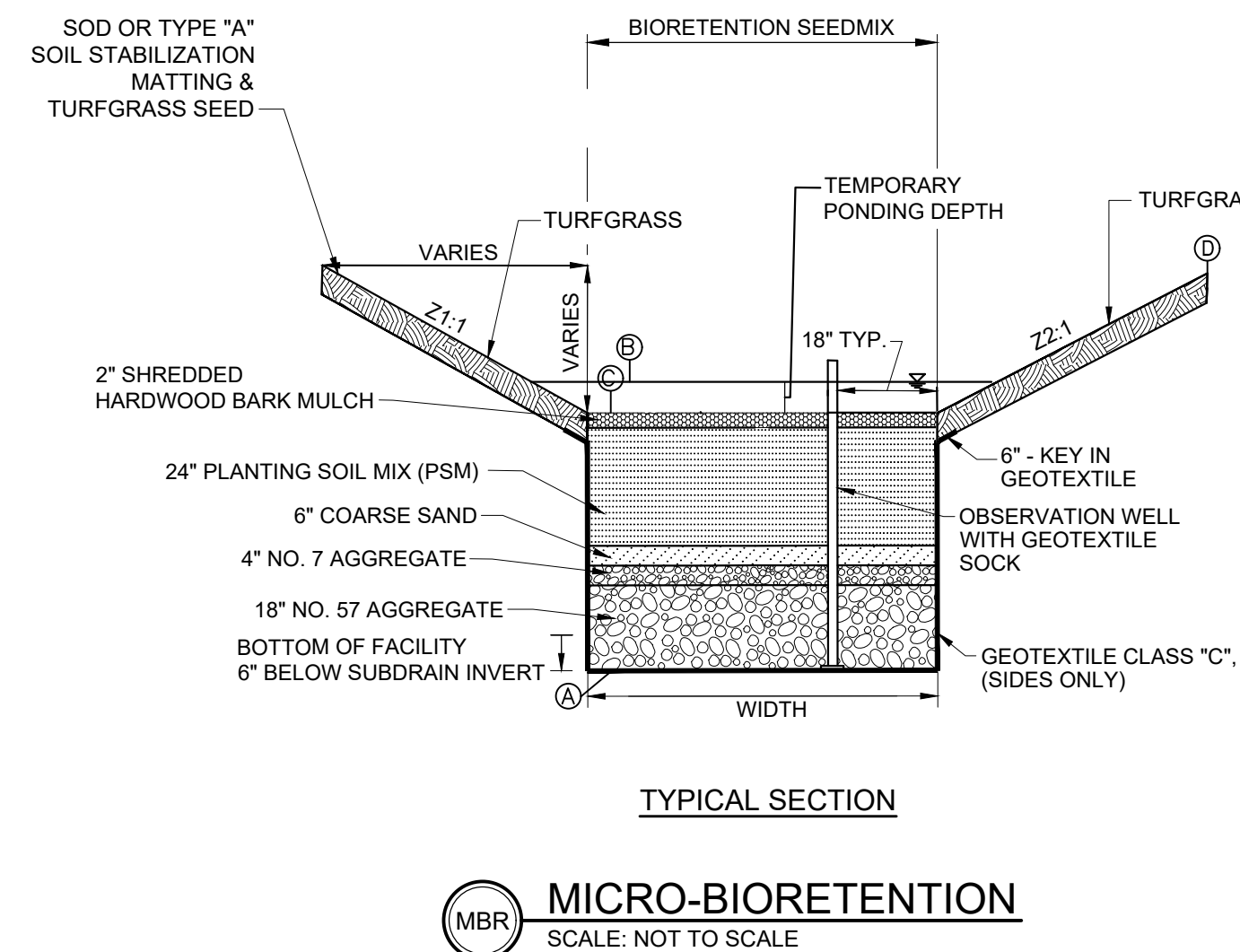
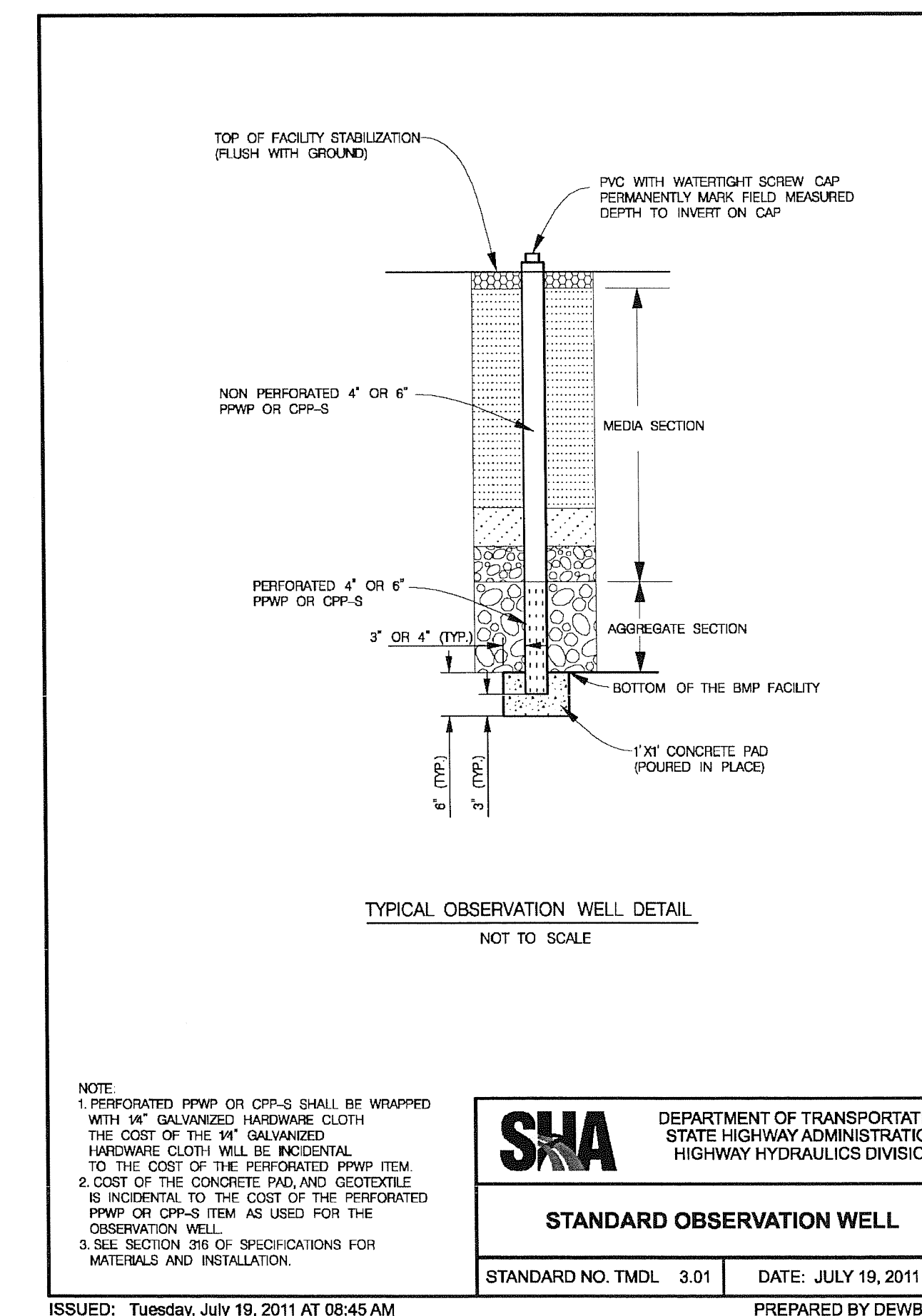
These practices may not be constructed until all contributing drainage area has been stabilized

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil [2" to 4" deep]	loamy sand (60 - 65%) & compost (35 - 40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with 1/4-inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. 3; f'c = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350.8R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil pressures); and analysis of potential cracking
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (AASHTO) #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.

Table A.4 Commonly Used Species for Bioretention Areas

Trees	Shrubs	Herbaceous Species
<i>Acer rubrum</i> Red Maple	<i>Aesculus parviflora</i> Bottlebrush Buckeye	<i>Andropogon virginicus</i> Broomsedge
<i>Betula nigra</i> River Birch	<i>Cephalanthus occidentalis</i> Buttonbush	<i>Eupatorium perpurea</i> Joe Pye Weed
<i>Juniperus virginiana</i> Eastern Red Cedar	<i>Hamamelis virginiana</i> Witch Hazel	<i>Scirpus pungens</i> Three Square Bulrush
<i>Chionanthus virginicus</i> Fringe-tree	<i>Vaccinium corymbosum</i> Highbush Blueberry	<i>Iris versicolor</i> Blue Flag
<i>Nyssa sylvatica</i> Black Gum	<i>Ilex glabra</i> Inkberry	<i>Lobelia cardinalis</i> Cardinal Flower
<i>Diospyros virginiana</i> Persimmon	<i>Ilex verticillata</i> Winterberry	<i>Panicum virgatum</i> Switchgrass
<i>Platanus occidentalis</i> Sycamore	<i>Viburnum dentatum</i> Arrowwood	<i>Dichantheium scoparium</i> Broom Panic Grass
<i>Quercus palustris</i> Pin Oak	<i>Lindera benzoin</i> Spicebush	<i>Rudbeckia laciniata</i> Tall Coneflower
<i>Quercus phellos</i> Willow Oak	<i>Myrica pennsylvanica</i> Bayberry	<i>Scirpus cyperinus</i> Woolgrass
<i>Salix nigra</i> Black willow		<i>Vernonia noveboracensis</i> New York Ironweed

Note 1: For more options on plant selection for bioretention, consult Bioretention Manual (ETAB, 1993) or the Design of Stormwater Filtering Systems (Claytor and Schueler, 1997).



BMP ID	SURFACE AREA (SF)	SIDE SLOPE		ELEVATIONS (FT)				PONDING DEPTH (IN)	SUBDRAIN			
		Z1:1	Z2:1	(A) FACILITY BOTTOM	(B) ESDv ELEVATION	(C) FACILITY TOP	(D) TOP OF SLOPE		INVERT IN (FT)	DIAMETER (IN)	INVERT OUT (FT)	DIAMETER (IN)
BMP-1	780	3	3	18.00	23.50	23.00	3:1	6	18.5	6	18.5	6
BMP-2	750	3	3	15.00	20.50	20.00	3:1	6	15.5	6	15.5	6
BMP-3	350	3	3	8.00	13.50	13.00	3:1	6	8.5	6	9.25	6
BMP-4	350	3	3	9.00	14.50	14.00	3:1	6	9.5	6	9.5	6

gba
gant-brunnett ARCHITECTS
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227-1044
Telephone Number: 410-234-8444

GANNETT FLEMING
10200 GRAND CENTRAL AVENUE,
SUITE 310
OWINGS MILLS, MD 21117
PH: (717) 886-5411

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE: AS NOTED	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122
△								DRAWN BY: CG	
				CHIEF ENGINEER		PROJECT MANAGER		CHECKED BY: KW	STORMWATER MANAGEMENT DETAILS C-501
				APPROVED	DATE	APPROVED	DATE	SHEET NO. 15 OF 65	
				ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY		PROJECT NO. P535900 CONTRACT NO. P535908	

DATE: 9-25-2023

2018 VEGETATIVE ESTABLISHMENT

Following initial soil disturbances or redisturbance, permanent or temporary stabilization shall be completed within three calendar days for the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and seven days for all other disturbed or graded areas on the project site.

1. Permanent Seeding:

- A. Soil Tests: Lime and fertilizer will be applied per soil tests results for sites greater than 5 acres. Soil tests will be done at completion of initial rough grading or as recommended by the sediment control inspector. Rates and analyses will be provided to the grading inspector as well as the contractor.

Occurrence of acid sulfate soils (grayish black color) will require covering with a minimum of 12 inches of clean soil with 6 inches minimum capping of top soil. No stockpiling of material is allowed. If needed, soil tests should be done before and after a 6-week incubation period to allow oxidation of sulfates.

The minimum soil conditions required for permanent vegetative establishment are:

- a. Soil pH shall be between 6.0 and 7.0.
- b. Soluble salts shall be less than 500 parts per million (ppm).
- c. The soil shall contain less than 40% clay but enough fine grained material (> 30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lovegrass or seresia lespedeza is to be planted, then a sandy soil (< 30% silt plus clay) would be acceptable.
- d. Soil shall contain 1.5% minimum organic matter by weight.
- e. Soil must contain sufficient pore space to permit adequate root penetration.
- f. If these conditions cannot be met by soils on site, adding topsoil is required in accordance with the Standard and Specification for Soil Preparation, Topsoiling and Soil Amendments from the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control or amendments made as recommended by a certified agronomist.

- B. Seedbed Preparation: Area to be seeded shall be loose and friable to a depth of at least 3-5 inches. The top layer shall be loosened by raking, disking or other acceptable means before seeding occurs. For sites less than 5 acres, apply 100 pounds dolomitic limestone and 21 pounds of 10-10-10 fertilizer per 1,000 square feet. Harrow or disk lime and fertilizer into the soil to a depth of at least 3-5 inches on slopes flatter than 3:1.

- C. Seeding: Apply 5-6 pounds per 1,000 square feet of tall fescue between February 1 and April 30 or between August 15 and October 31. Apply seed uniformly on a moist firm seedbed with a cyclone seeder, cultipacker seeder or hydroseeder (slurry includes seeds and fertilizer, recommended on steep slopes only). Maximum seed depth should be ¼ inch in clayey soils and ½ inch in sandy soils when using other than the hydroseeder method. Irrigate where necessary to support adequate growth until vegetation is firmly established. If other seed mixes are to be used, select from Table B3 and B5 of the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.

- D. Mulching: Mulch shall be applied to all seeded areas immediately after seeding. During the time periods when seeding is not permitted, mulch shall be applied immediately after grading. Mulch shall be unrotted, unchopped, small grain straw applied at a rate of 2 tons per acre or 90 pounds per 1,000 square feet (2 bales). Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch-anchoring tool is used, apply 2.5 tons per acre. Mulch materials shall be relatively free of all kinds of weeds and shall be completely free of prohibited noxious weeds. Spread mulch uniformly, mechanically or by hand, to a depth of 1-2 inches.

- E. Securing Straw Mulch: Straw mulch shall be secured immediately following mulch application to minimize movement by wind or water. The following methods are permitted:

- i. Use a mulch-anchoring tool which is designed to punch and anchor mulch into the soil surface to a minimum depth of 2 inches. This is the most effective method for securing mulch, however, it is limited to relatively flat areas where equipment can operate safely.
- ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. If mixed with water, use 50 pounds of wood cellulose fiber per 100 gallons of water.
- iii. Liquid binders may be used. Apply at higher rates at the edges where wind catches mulch, such as in valleys and on crests of slopes. The remainder of the area should appear uniform after binder application. Binders listed in the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control or approved equal shall be applied at rates recommended by the manufacturers.
- iv. Lightweight plastic netting may be used to secure mulch. The netting will be stapled to the ground according to manufacturer's recommendations.

2. Temporary Seeding:

Lime: 100 pounds of dolomitic limestone per 1,000 square feet.
 Fertilizer: 15 pounds of 10-10-10 per 1,000 square feet.
 Seed: Perennial rye – 0.92 pounds per 1,000 square feet (February 1 through April 30 or August 15 through October 31).
 Millet – 0.92 pounds per 1,000 square feet (May 1 through August 15).
 Mulch: Same as 1 D and E above.

- 3. No fills may be placed on frozen ground. All fill is to be placed in approximately horizontal layers, each layer having a loose thickness of not more than 8 inches. All compaction requirements are in accordance to Anne Arundel County Standard Specifications for Construction as well as the AA County Design Manual and Standard Details. Fills for pond embankments shall be compacted as per MD-378 Construction Specifications. All other fills shall be compacted sufficiently so as to be stable and prevent erosion and slippage.

4. Permanent Sod:

Installation of sod should follow permanent seeding dates. Seedbed preparation for sod shall be as noted in section (B) above. Permanent sod is to be tall fescue, state approved sod; lime and fertilizer per permanent seeding specifications and lightly irrigate soil prior to laying sod. Sod is to be laid on the contour with all ends tightly abutting. Joints are to be staggered between rows. Water and roll or tamp sod to insure positive root contact with the soil. All slopes steeper than 3:1, as shown, are to be permanently sodded or protected with an approved erosion control netting. Additional watering for establishment may be required. Sod is not to be installed on frozen ground. Sod shall not be transplanted when moisture content (dry or wet) and/or extreme temperature may adversely affect its survival. In the absence of adequate rainfall, irrigation should be performed to ensure establishment of sod.

5. Mining Operations:

Sediment control plans for mining operations must include the following seeding dates and mixtures:

For seeding dates of February 1 through April 30 and August 15 through October 31, use seed mixture of tall fescue at the rate of 2 pounds per 1,000 square feet and sericea lespedeza at the minimum rate of 0.5 pounds per 1,000 square feet.

- 6. Topsoil shall be applied as per the Standard and Specifications for Soil Preparation, Topsoiling, and Soil Amendments from the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.

7. Use of these Vegetative Establishment Specifications does not preclude the permittee or contractor from meeting all of the requirements set forth in the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.

- 4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.

- 5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:

- a. TOPSOIL MUST BE A LOAM SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH OR OTHER MATERIALS LARGER THAN 1 ½ INCHES IN DIAMETER.
- b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

- 6. TOPSOIL APPLICATION

- a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
- b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
- c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

- C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

- 1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
- 2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
- 3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
- 4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
- 5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

SECTION B-4-2: SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

DEFINITION: THE PROCESS OF PREPARING SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION

PURPOSE: TO PROVIDE SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH

CONDITIONS WHERE PRACTICE APPLIES: WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED

CRITERIA:

A. SOIL PREPARATION

1. TEMPORARY STABILIZATION

- a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
- b. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
- c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

2. PERMANENT STABILIZATION

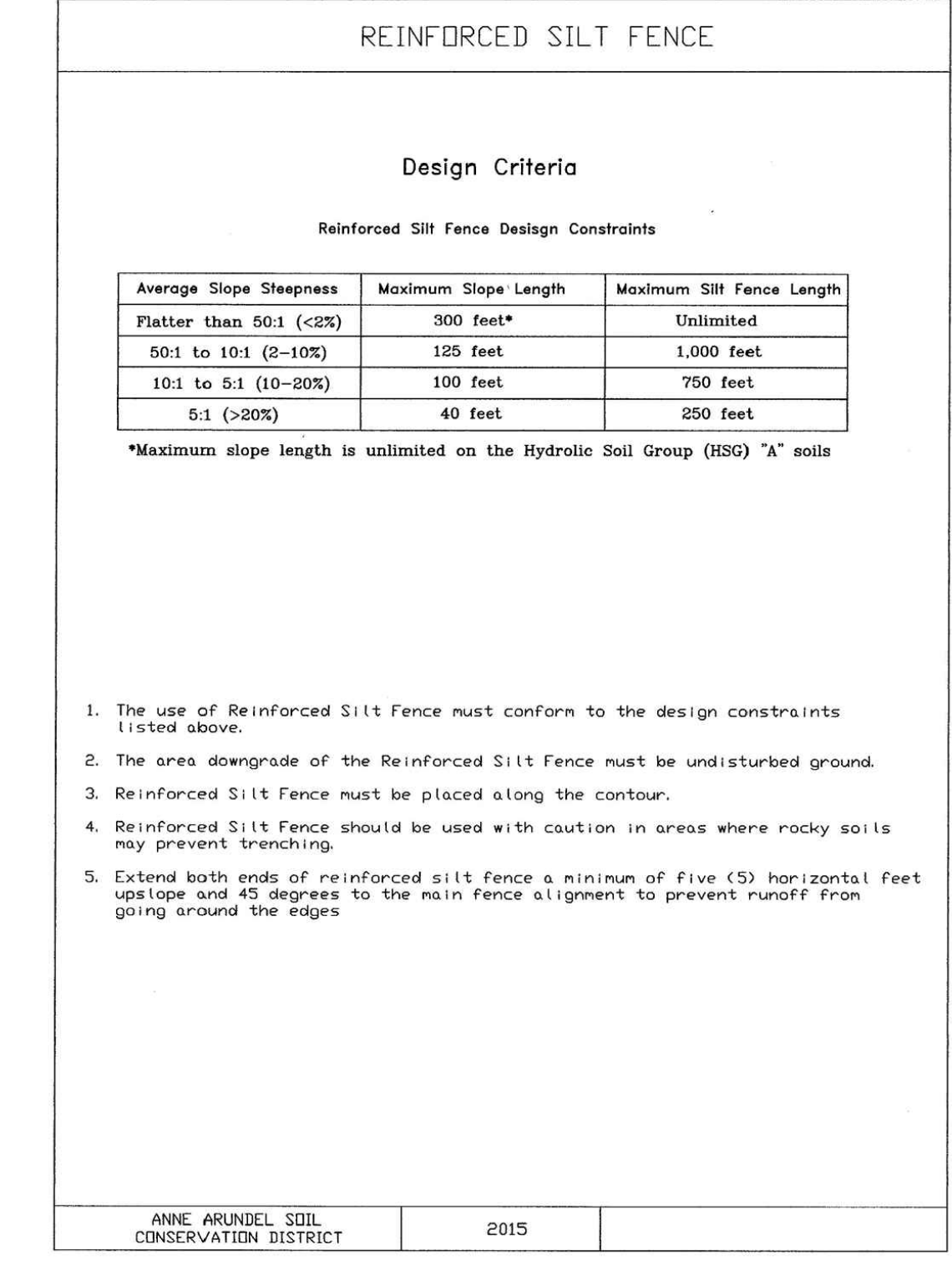
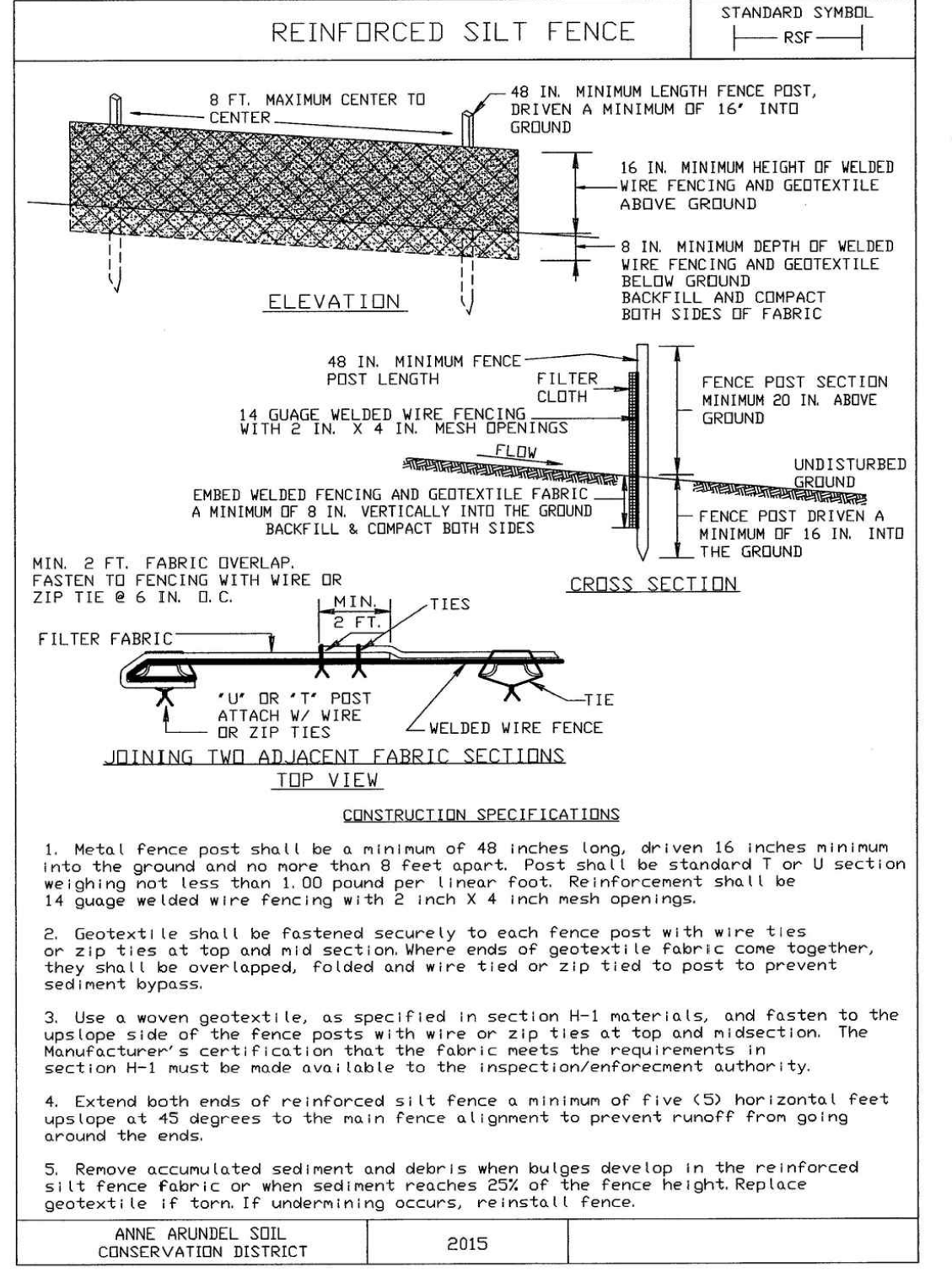
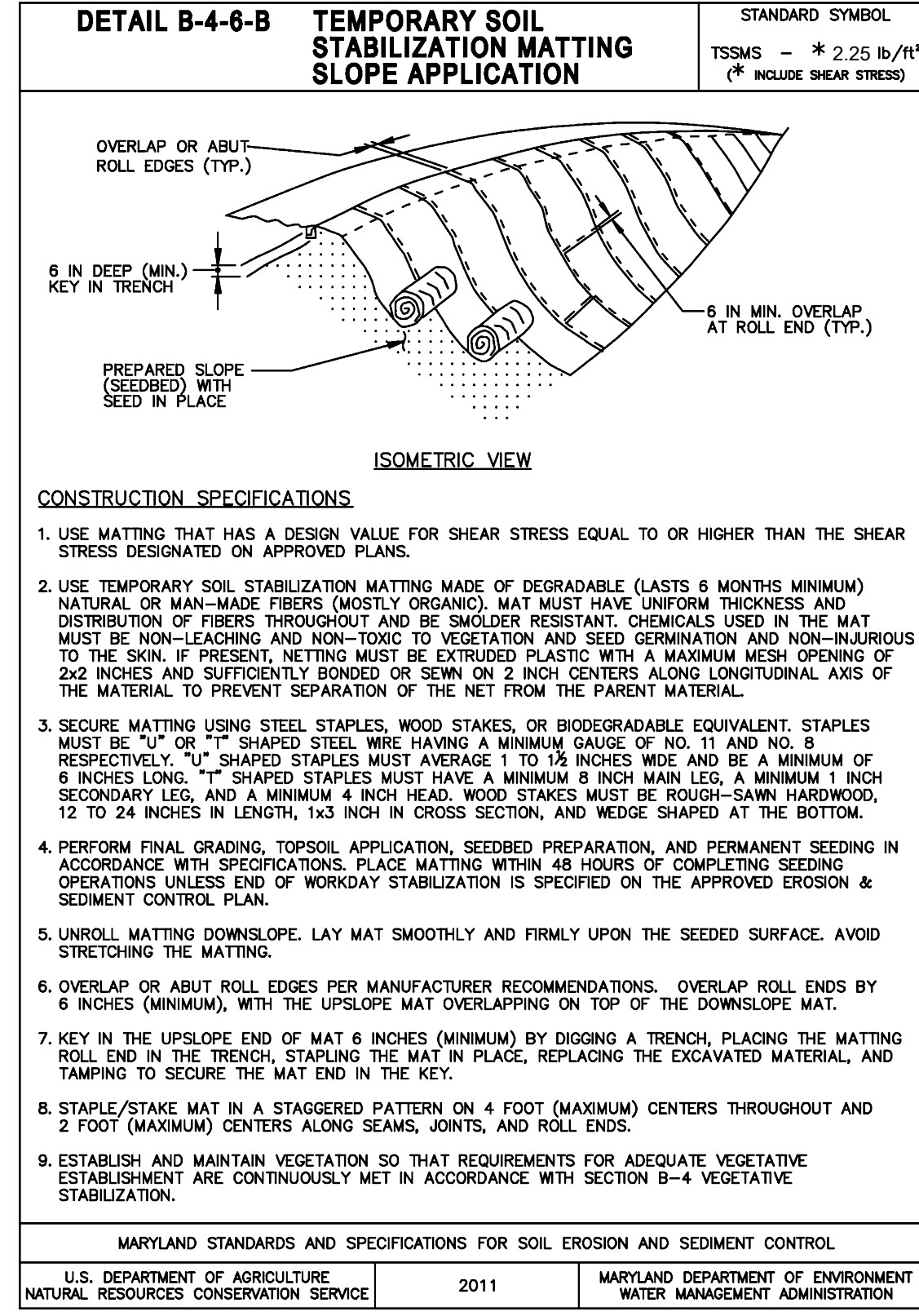
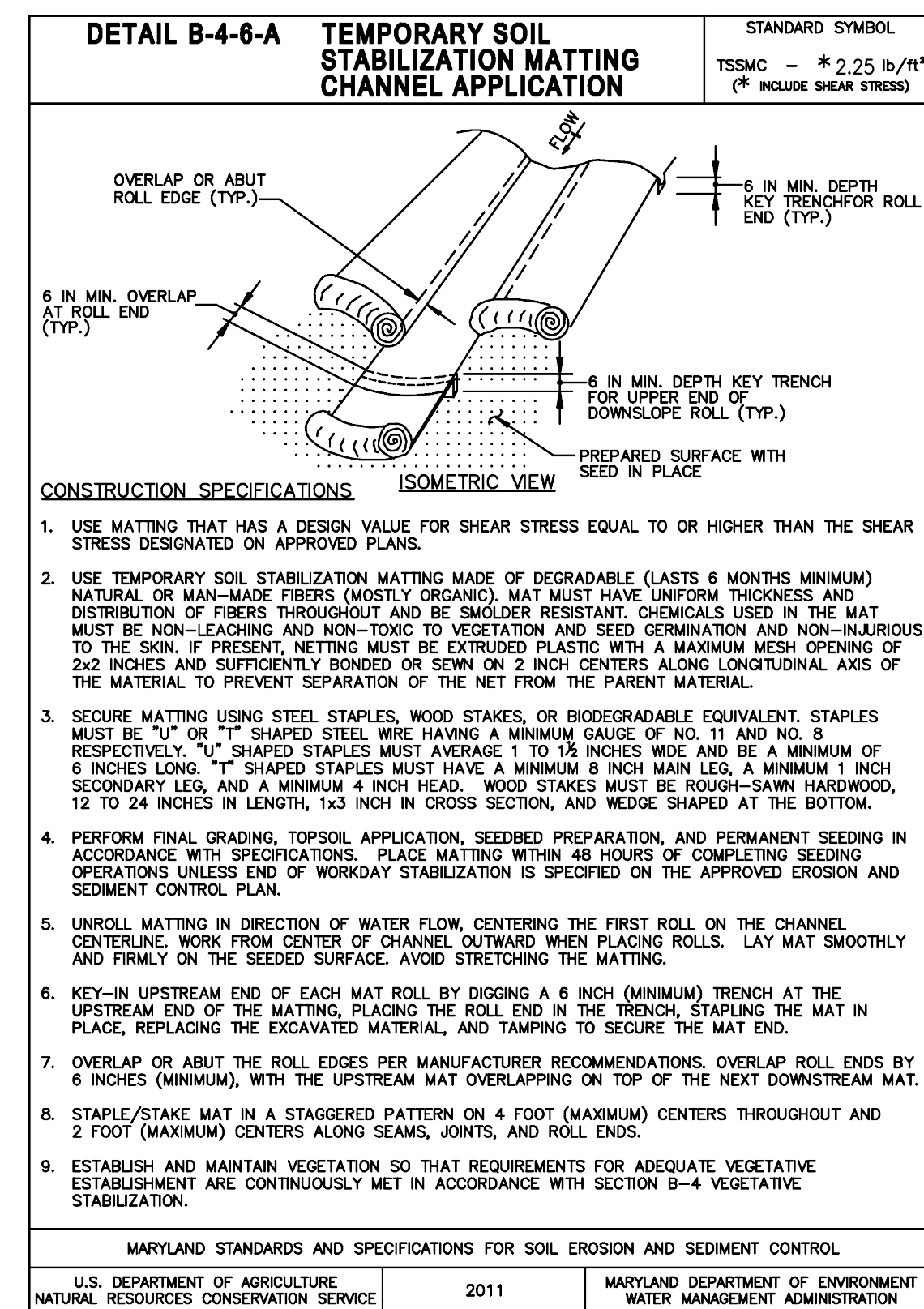
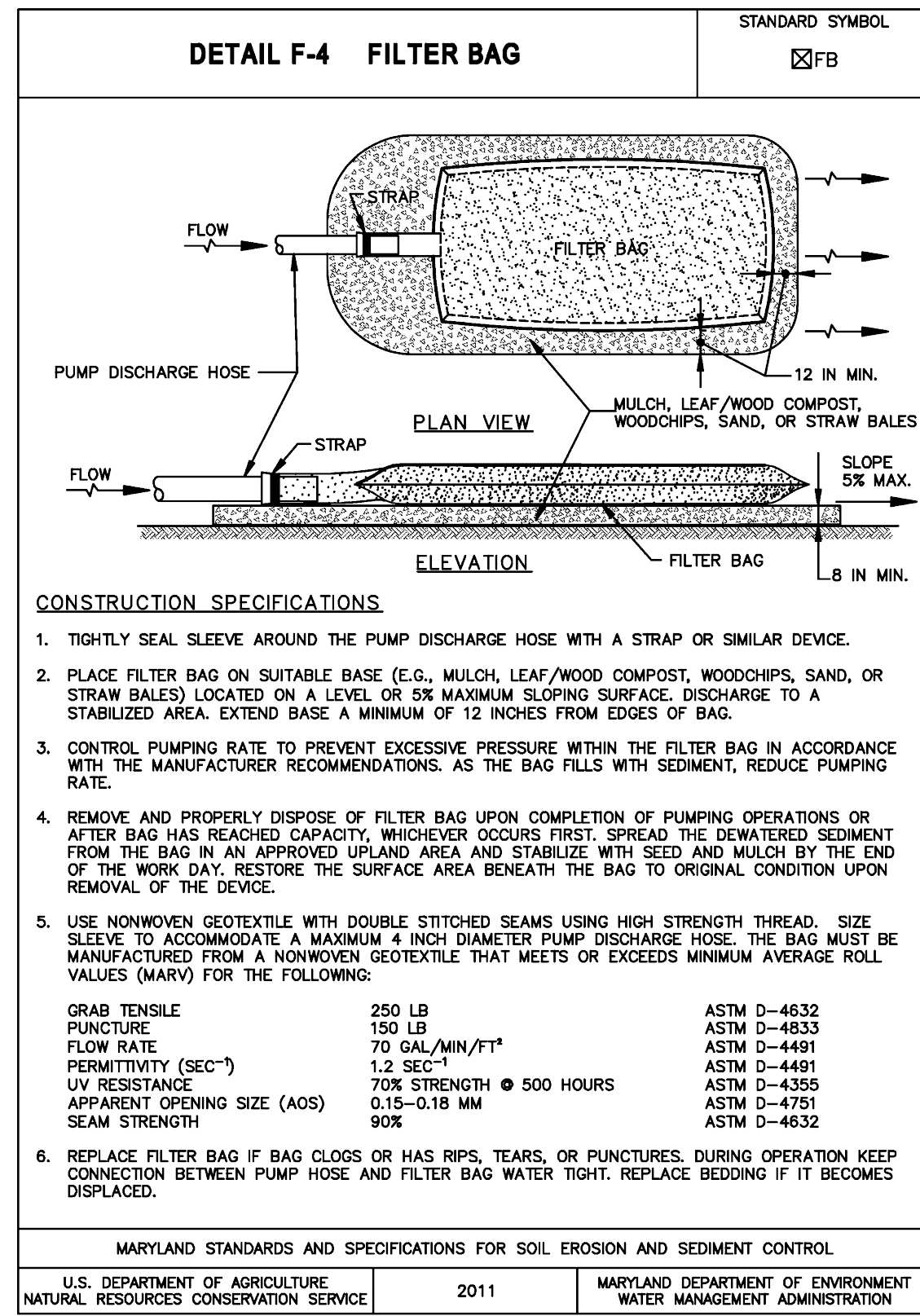
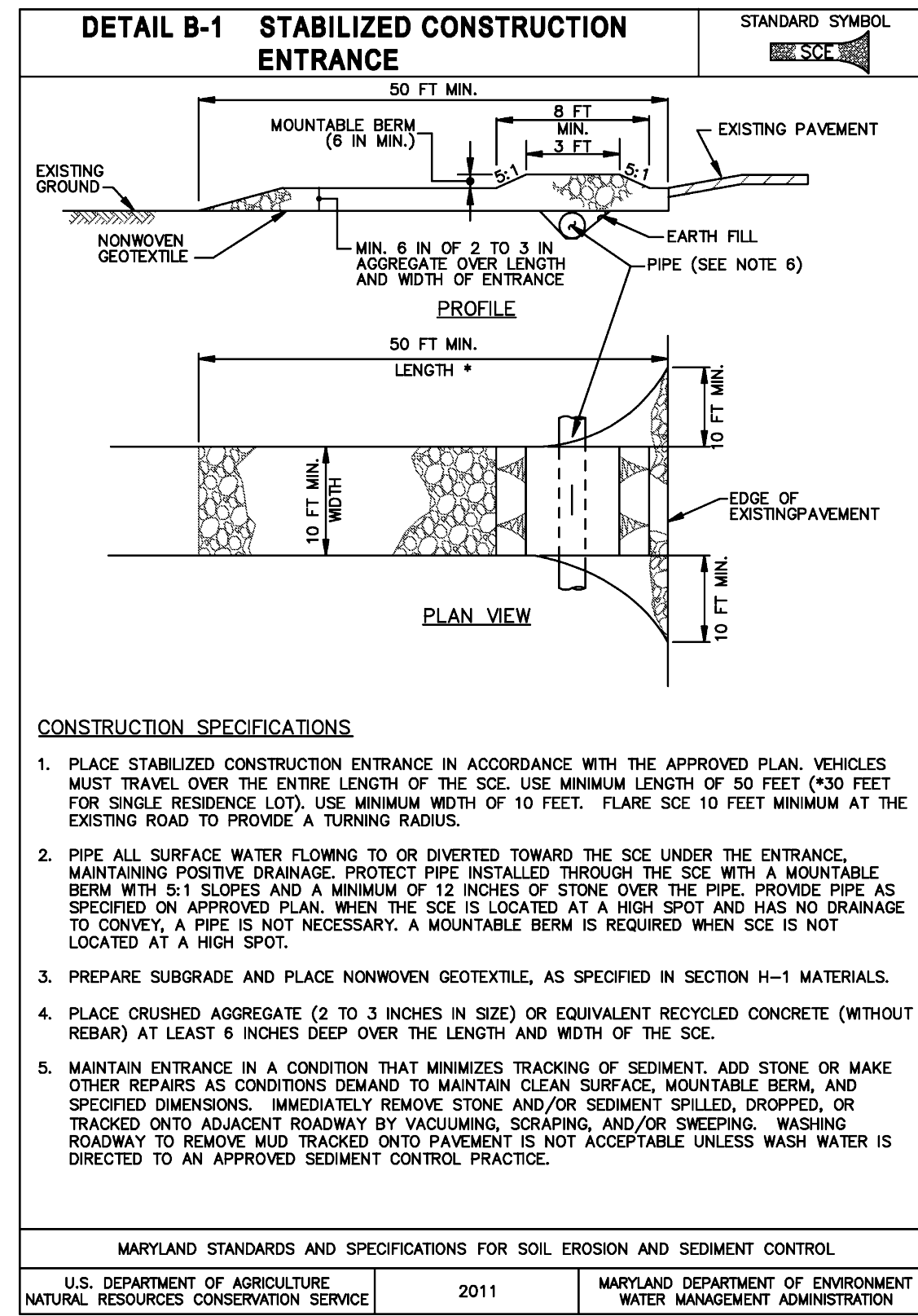
- a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
 - i. SOIL PH BETWEEN 6.0 AND 7.0.
 - ii. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
 - iii. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
 - iv. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
 - v. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
- b. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
- c. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
- d. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
- e. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE. REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

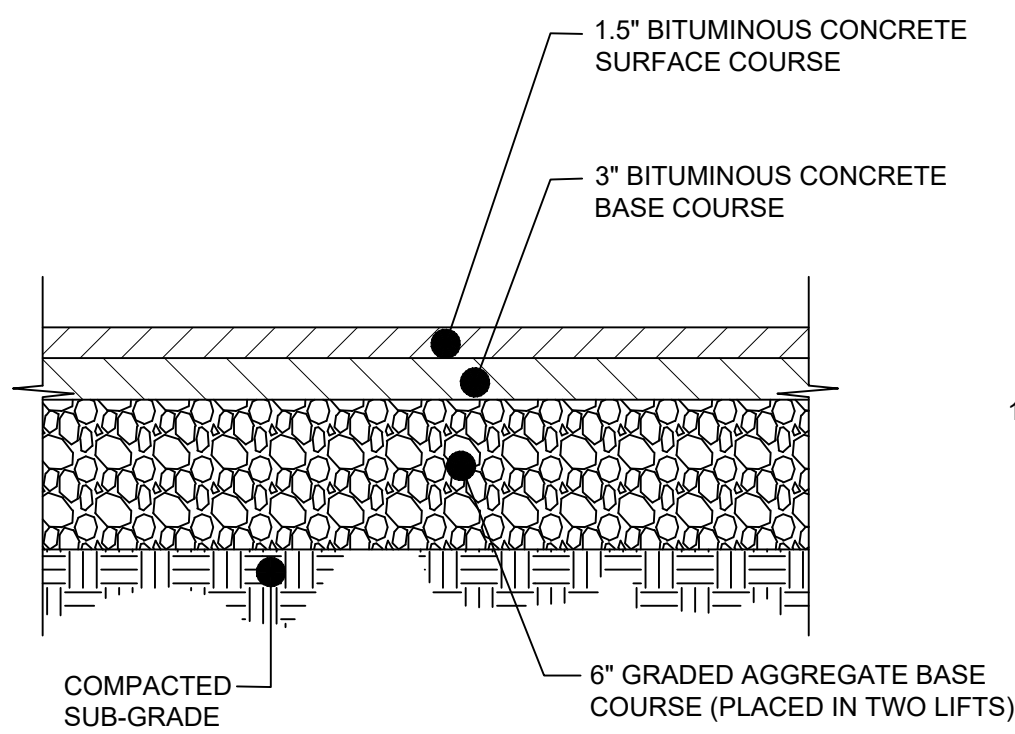
B. TOPSOILING

- 1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
- 2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
- 3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

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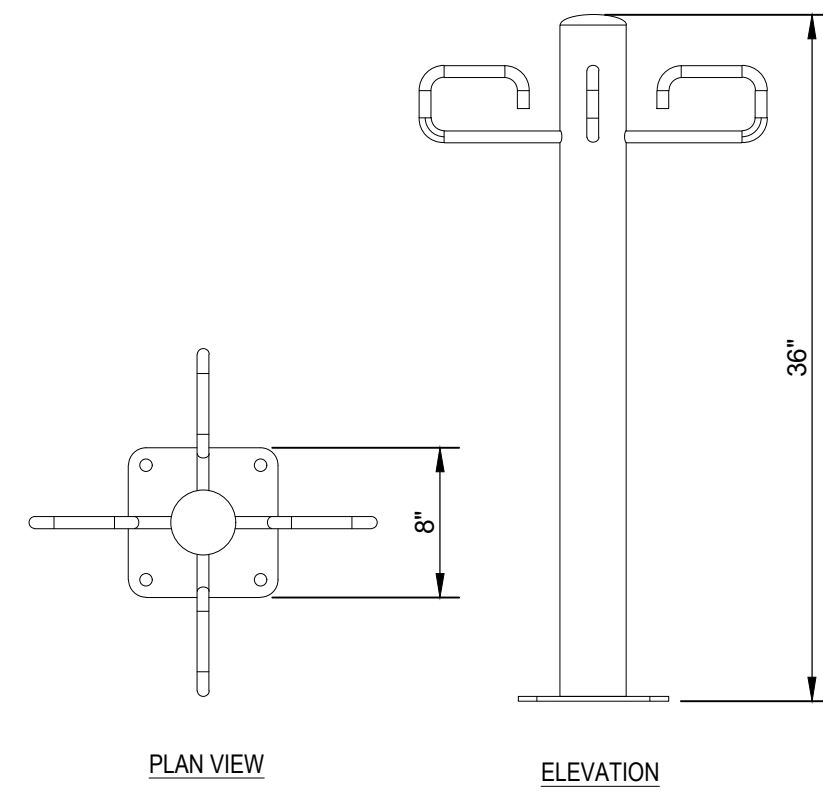
					ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023	
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE: AS NOTED	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122	
△				CHIEF ENGINEER		PROJECT MANAGER		CHECKED BY: KW		
				APPROVED	DATE	APPROVED	DATE	SHEET NO. 16 OF 65	EROSION SEDIMENT CONTROL NOTES	
				ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY		PROJECT NO. P535900	C-502	
								CONTRACT NO. P535908		



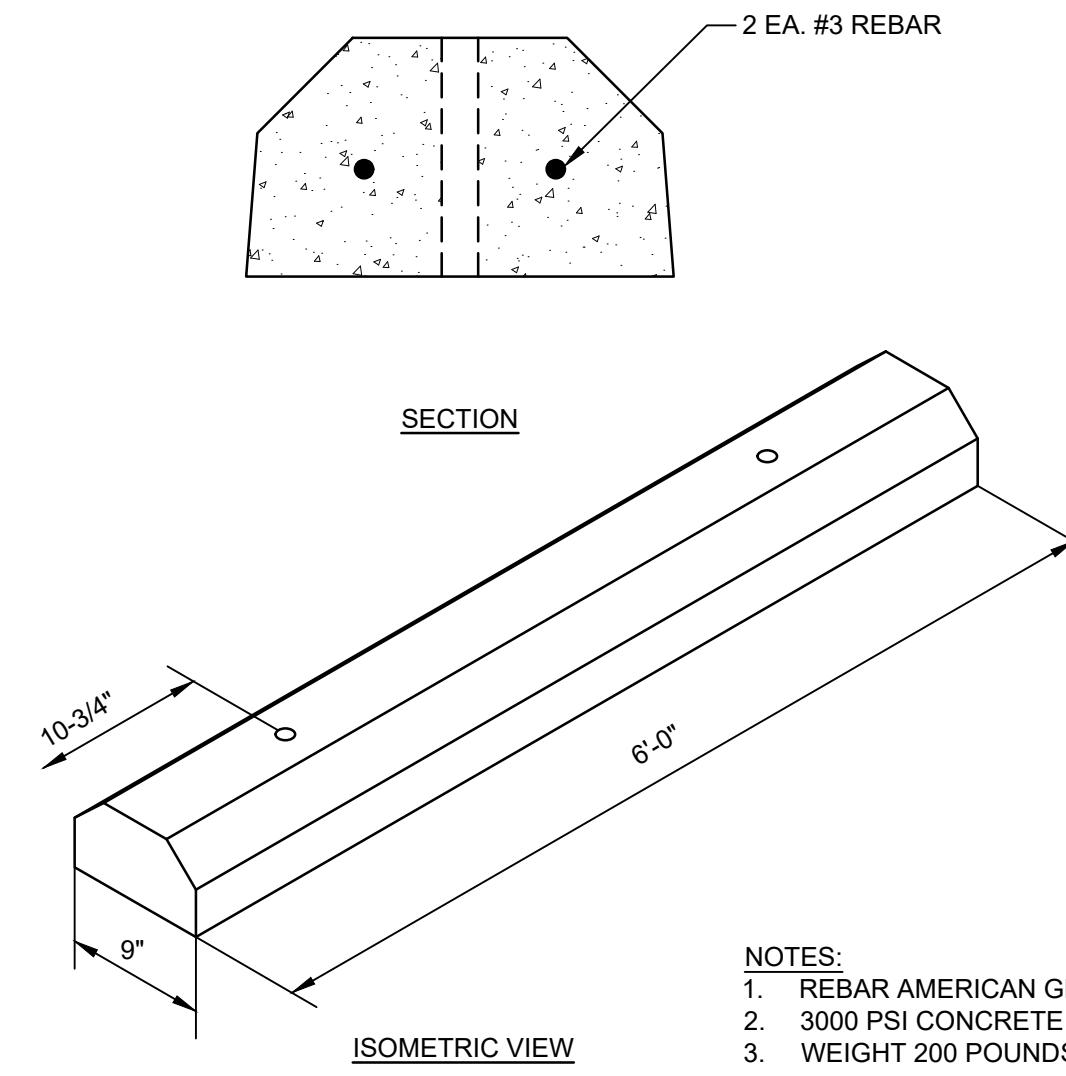


NOTES:
 1. GEOTEXTILE SHALL BE WOVEN GEOTEXTILE FABRIC CLASS 'PE', TYPE II MEETING THE REQUIREMENTS OF MD SHA SPECIFICATION SECTION 921.09.

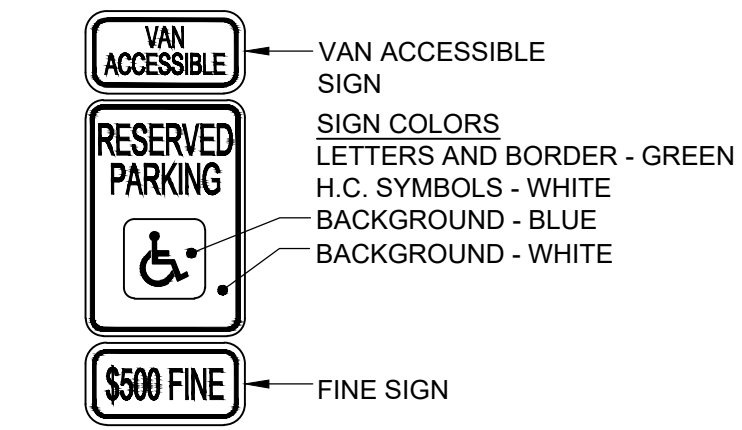
BP BITUMINOUS PAVING
 SCALE: NOT TO SCALE



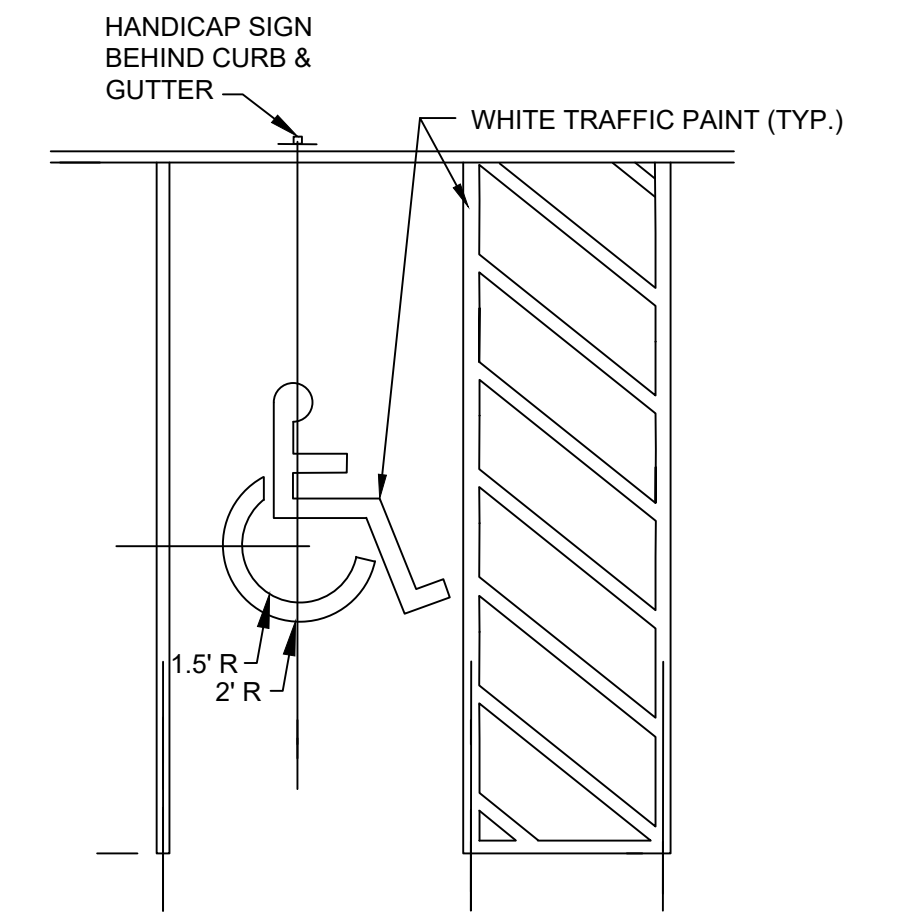
DLP DOG LEASH POST
 SCALE: (NOT TO SCALE)



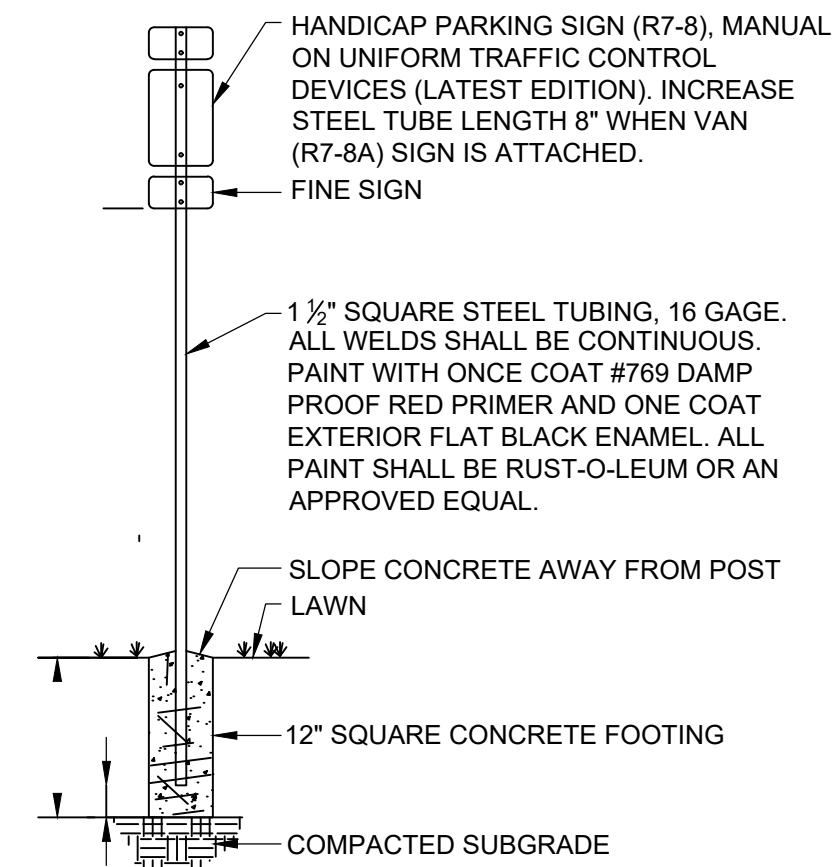
WS WHEEL STOPS
 SCALE: NOT TO SCALE



HP VAN ACCESSIBLE HANDICAP PARKING
 SCALE: NOT TO SCALE

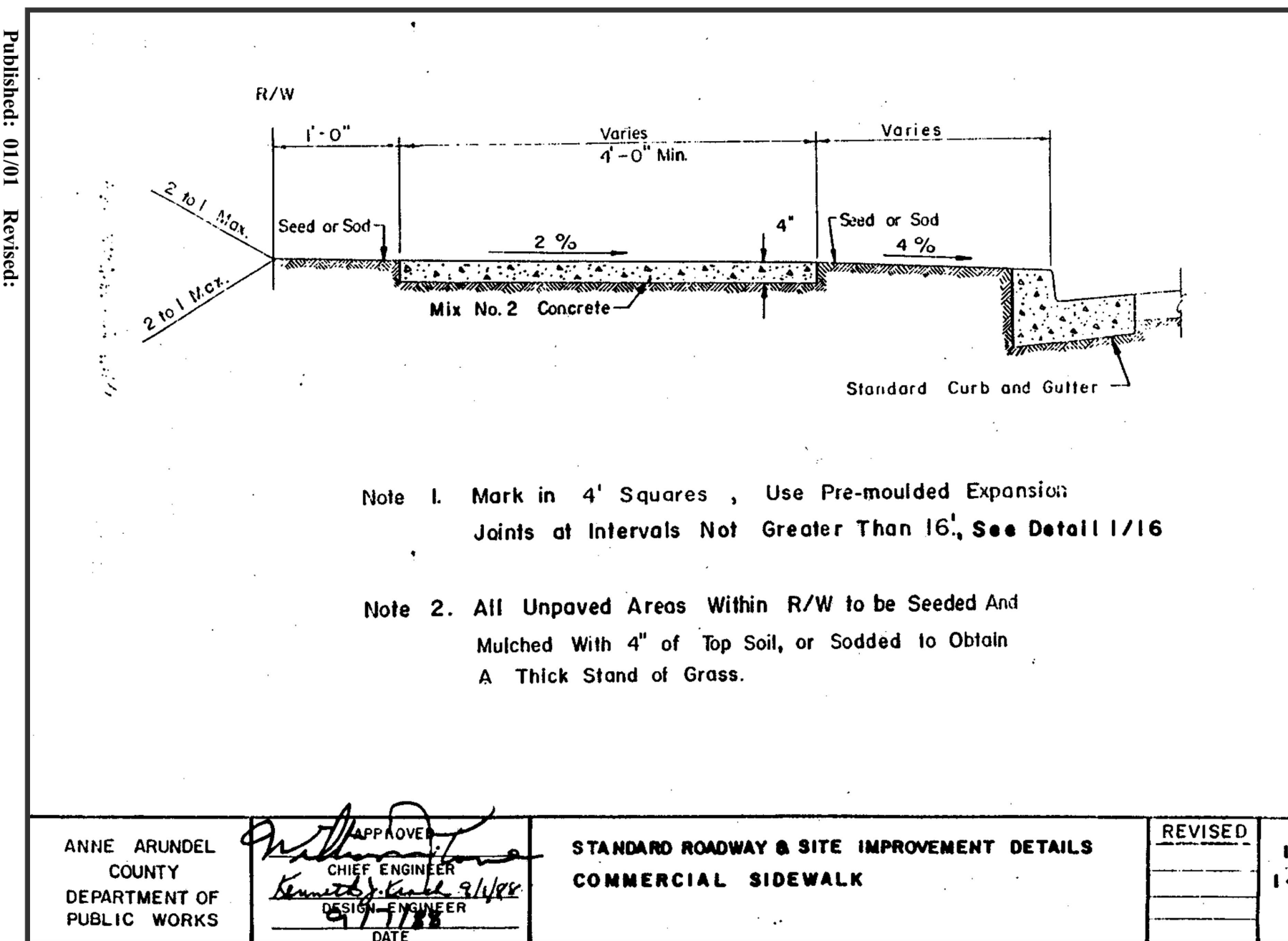


HCP HANDICAP PARKING SPACE
 SCALE: NOT TO SCALE



HPS HANDICAP PARKING SIGN
 SCALE: NOT TO SCALE

Published: 01/01 Revised:

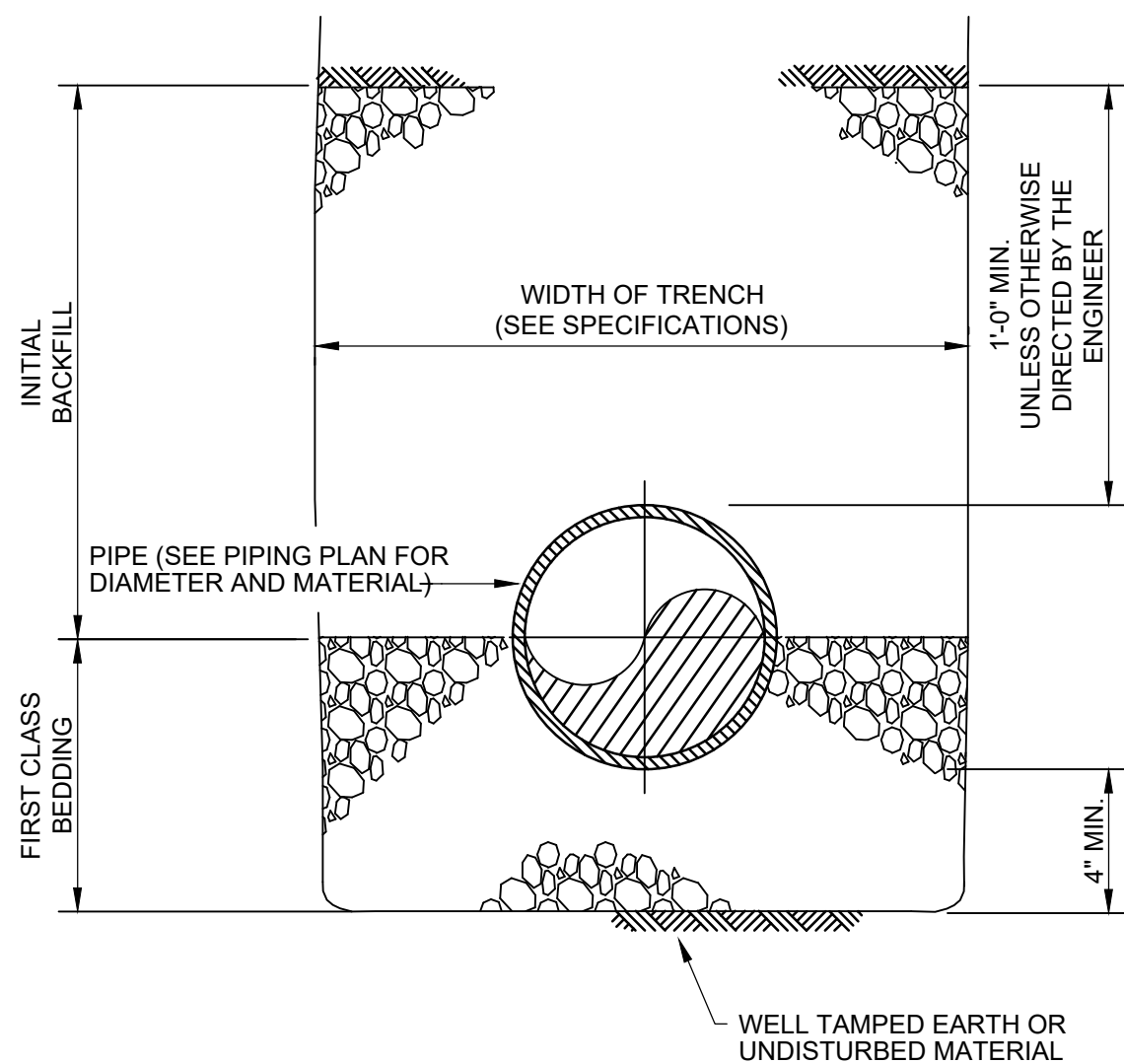


Note 1. Mark in 4' Squares, Use Pre-moulded Expansion Joints at Intervals Not Greater Than 16', See Detail 1/16

Note 2. All Unpaved Areas Within R/W to be Seeded And Mulched With 4" of Top Soil, or Sodded to Obtain A Thick Stand of Grass.

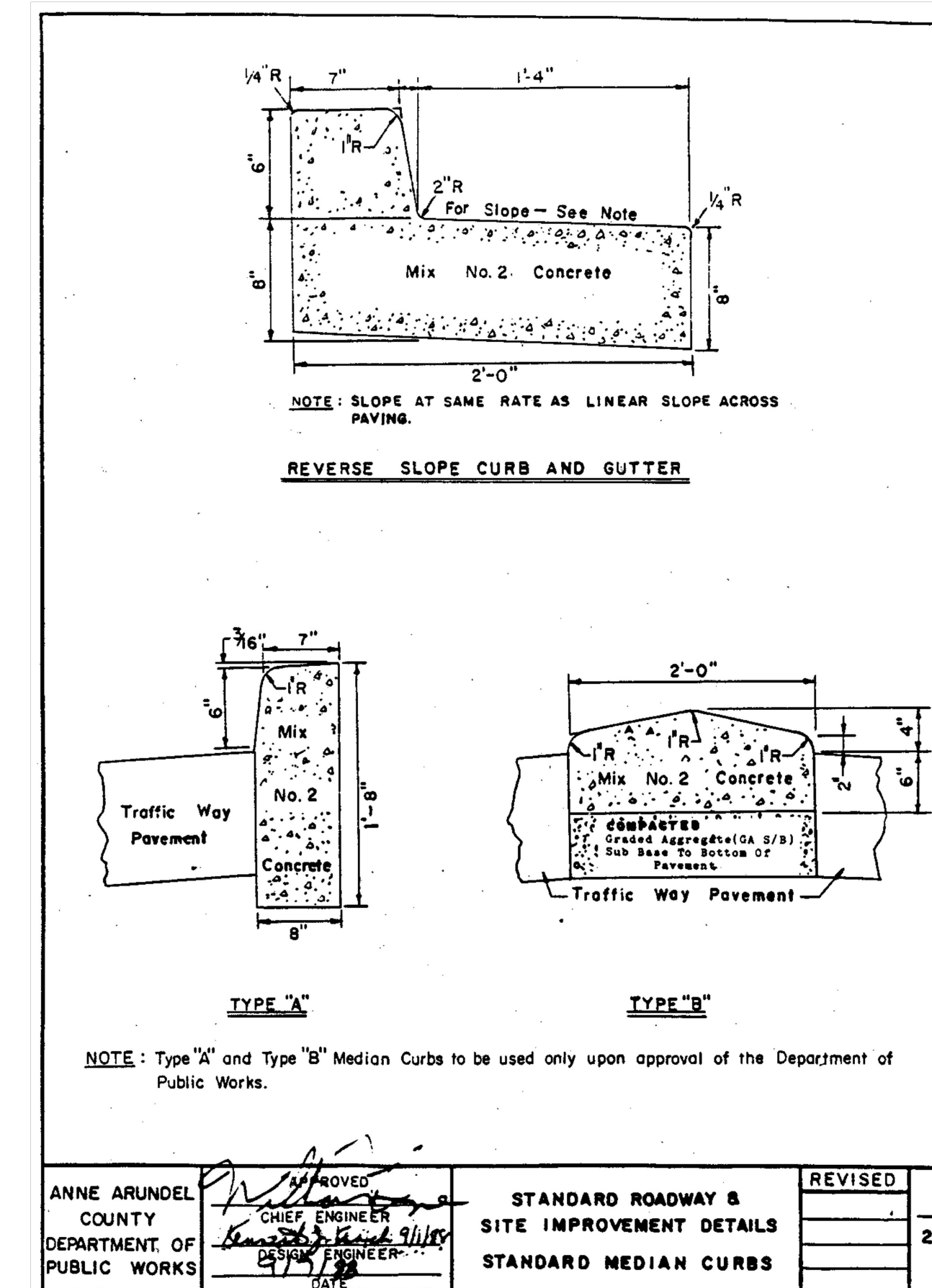
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	APPROVED CHIEF ENGINEER DESIGN ENGINEER	STANDARD ROADWAY & SITE IMPROVEMENT DETAILS COMMERCIAL SIDEWALK	REVISED	1
				14

14 COMMERCIAL SIDEWALK
 SCALE: NOT TO SCALE



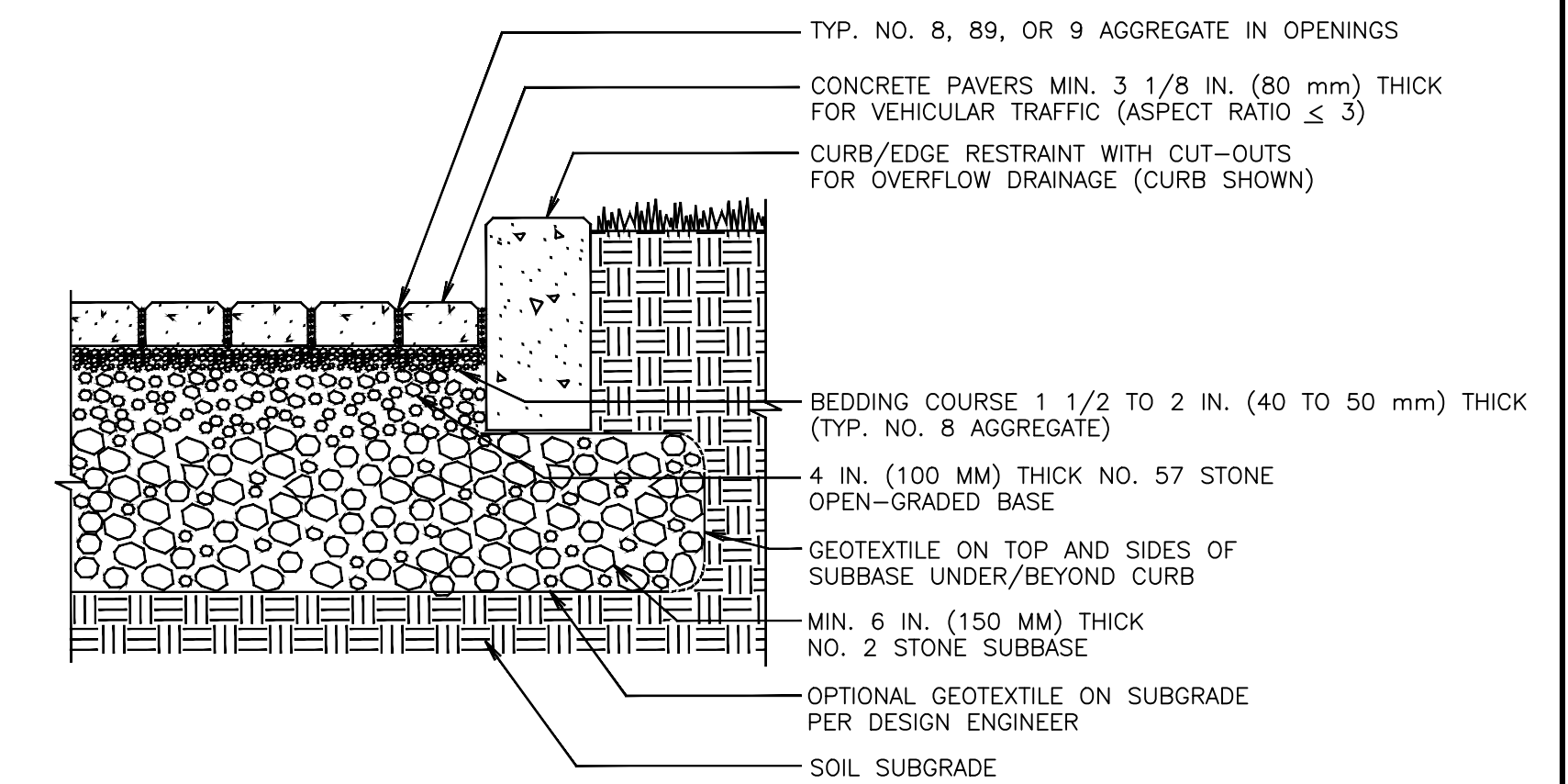
PB PIPE BEDDING
 SCALE: (NOT TO SCALE)

VII-26 of 66



ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	APPROVED CHIEF ENGINEER DESIGN ENGINEER	STANDARD ROADWAY & SITE IMPROVEMENT DETAILS STANDARD MEDIAN CURBS	REVISED	1
				25

1 TYPE A CURB
 25 SCALE: NOT TO SCALE



NOTES:
 1. 2 3/8 IN. (60 MM) THICK PAVERS MAY BE USED IN PEDESTRIAN AND RESIDENTIAL APPLICATIONS.
 2. NO. 2 STONE SUBBASE THICKNESS VARIES WITH DESIGN. CONSULT ICPI PERMEABLE INTERLOCKING CONCRETE PAVEMENT MANUAL.
 3. NO. 2 STONE MAY BE SUBSTITUTED WITH NO.3 OR NO.4 STONE.

PP PERVIOUS PAVERS
 SCALE: NOT TO SCALE

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 SUITE 310
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ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023	
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE
△				APPROVED	DATE
				CHIEF ENGINEER	PROJECT MANAGER
				APPROVED	DATE
				ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT OF WAY

SCALE: AS NOTED	DRAWN BY: CG	CHECKED BY: KW	SHEET NO. 18 OF 65	PROJECT NO. P535900	CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER
 9500 FORT SMALLWOOD ROAD
 PASADENA, MD 21122

CIVIL DETAILS **C-504**

LEGEND

EXISTING IMPERVIOUS AREA IN POI

EXISTING IMPERVIOUS AREA WITHIN POI SUMMARY

IMPERVIOUS AREA TYPE	AREA (AC)
EXISTING IMPERVIOUS	0.27

ESDv CLASSIFICATION

LIMIT OF DISTURBANCE	1.54 AC.
PRE-DEVELOPMENT IMPERVIOUS	0.27 AC.
EXISTING PERCENT IMPERVIOUS AREA	18%
CLASSIFICATION	NEW DEVELOPMENT



EXISTING 25,000 GALLON BELOW GROUND FIRE TANK-INSTALLED UNDER MAINTENANCE FACILITY CONTRACT.



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PH: (717) 886-5411

NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS NOTED	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122
CHIEF ENGINEER _____	PROJECT MANAGER _____	CHECKED BY: KW	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SHEET NO. 19 OF 65	SWM EXHIBIT PLAN - PRE-DEVELOPMENT
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	PROJECT NO. P535900 CONTRACT NO. P535908	



LEGEND

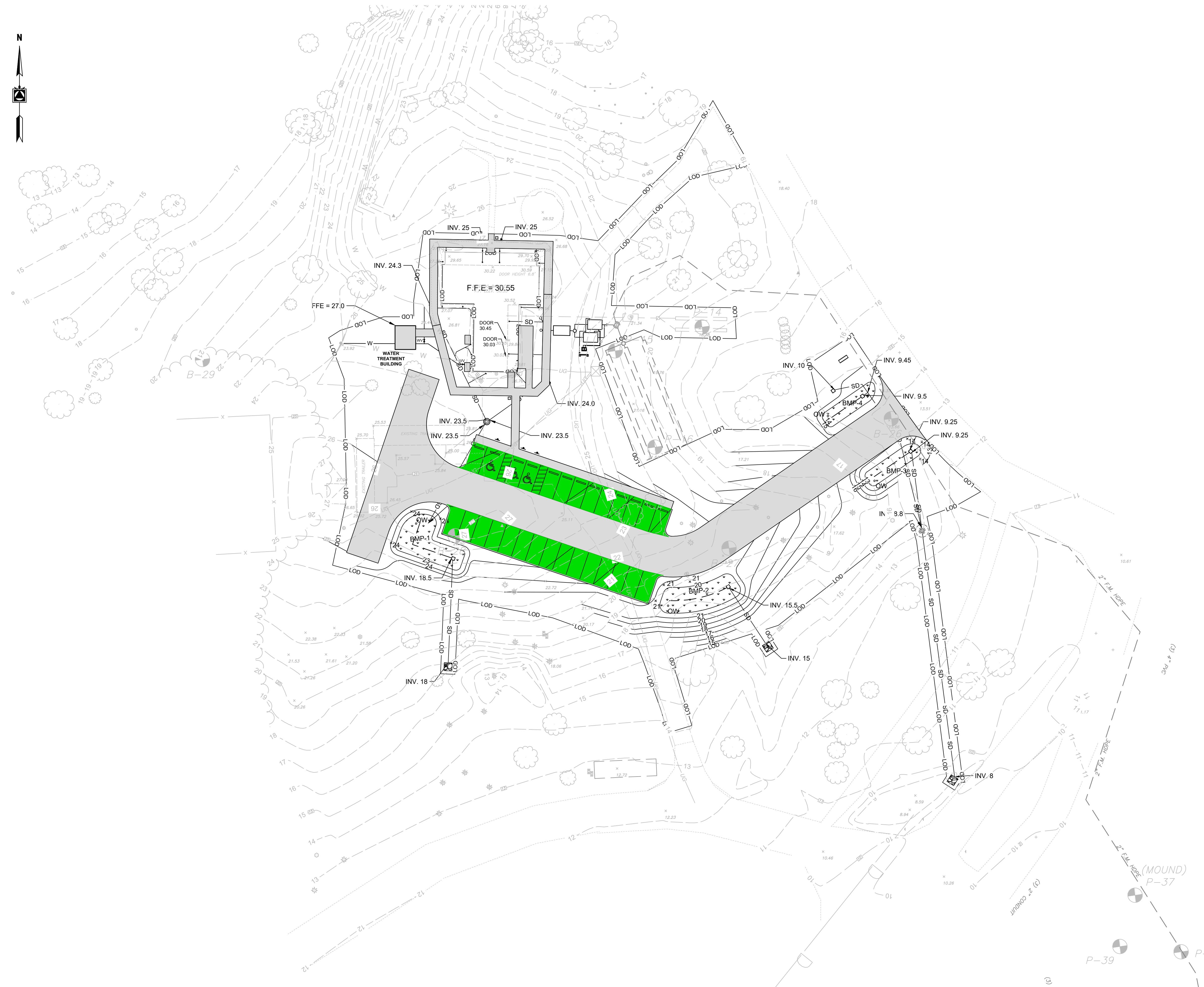
	NEW IMPERVIOUS
	NEW PERMEABLE PAVERS

IMPERVIOUS AREA WITHIN LOD SUMMARY

IMPERVIOUS AREA TYPE	AREA (SF)	AREA (AC)
NEW IMPERVIOUS	14,544	0.33
NEW PERMEABLE PAVERS	4,777	0.11
POST-DEVELOPMENT IMPERVIOUS AREA		0.33
PRE-DEVELOPMENT IMPERVIOUS AREA		0.27
IMPERVIOUS AREA REQUIRED TREATMENT (IART)		0.33

ESDv REQUIREMENTS

LIMIT OF DISTURBANCE (LOD)	1.54 AC.
PRE-DEVELOPMENT IMPERVIOUS	0.27 AC.
POST-DEVELOPMENT IMPERVIOUS	0.33 AC.
REQUIRED ESDv	2,173 C.F.



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NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS NOTED	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122
CHIEF ENGINEER _____	PROJECT MANAGER _____	CHECKED BY: KW	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SHEET NO. 20 OF 65	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	PROJECT NO. P535900	SWM EXHIBIT PLAN - POST DEVELOPMENT
		CONTRACT NO. P5359008	



LEGEND

- EXISTING DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION FLOW PATH
- ✱ POINT OF INVESTIGATION

TR-55 DRAINAGE AREA SUMMARY

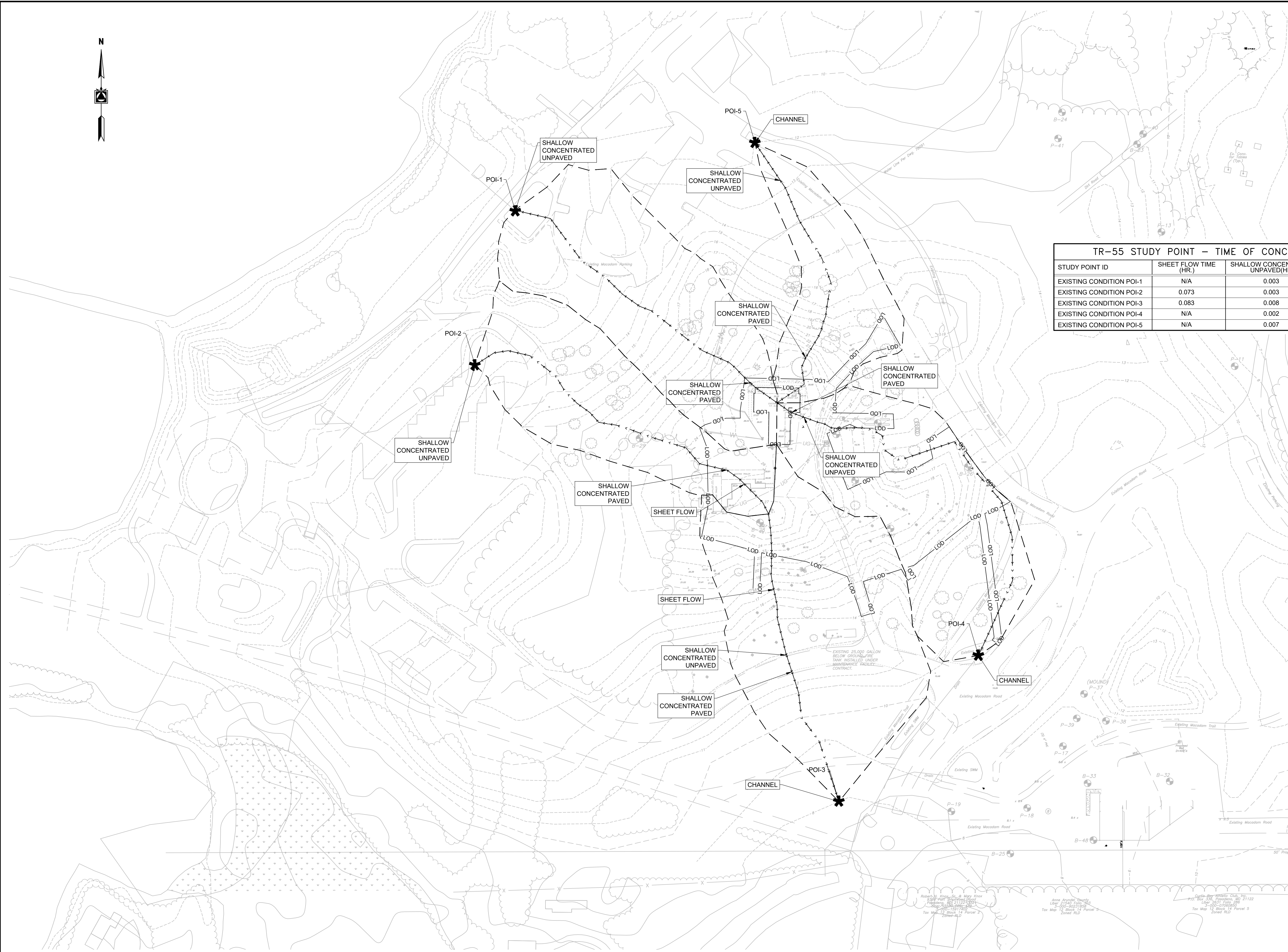
STUDY POINT ID	TOTAL AREA (ACRES)	RUNOFF CURVE NUMBER (RCN)
EXISTING CONDITION POI-1	1.53	41
EXISTING CONDITION POI-2	1.15	47
EXISTING CONDITION POI-3	1.86	51
EXISTING CONDITION POI-4	1.42	44
EXISTING CONDITION POI-5	0.78	58

TR-55 STUDY POINT - TIME OF CONCENTRATION SUMMARY

STUDY POINT ID	SHEET FLOW TIME (HR.)	SHALLOW CONCENTRATED UNPAVED (HR.)	SHALLOW CONCENTRATED PAVED (HR.)	CONCENTRATED FLOW TIME (HR.)	TOTAL FLOW TIME (HR.)
EXISTING CONDITION POI-1	N/A	0.003	0.031	N/A	0.1
EXISTING CONDITION POI-2	0.073	0.003	0.036	N/A	0.112
EXISTING CONDITION POI-3	0.083	0.008	0.002	N/A	0.1
EXISTING CONDITION POI-4	N/A	0.002	0.002	N/A	0.1
EXISTING CONDITION POI-5	N/A	0.007	0.019	N/A	0.1

TR-20 PEAK DISCHARGE - 10-YEAR AND 100-YEAR EVENT

POI	PRE-DEVELOPMENT PEAK OUTFLOW - 10-YEAR EVENT (CFS)	PRE-DEVELOPMENT PEAK OUTFLOW - 100-YEAR EVENT (CFS)
POI-1	0.226	2.016
POI-2	0.672	2.417
POI-3	2.165	5.624
POI-4	0.562	2.596
POI-5	1.579	3.287



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NO.	DESCRIPTION	BY	DATE

**ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS**

DATE: 9-25-2023

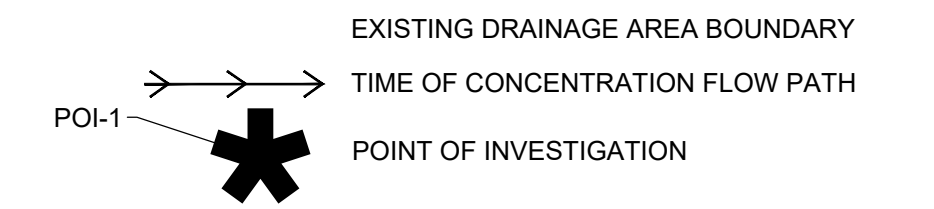
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CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: CG
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: KW
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	SHEET NO. 21 OF 65
		PROJECT NO. P535900
		CONTRACT NO. P535908

**FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122**

**SWM POI DA MAP -
PRE-DEVELOPMENT**

C-507

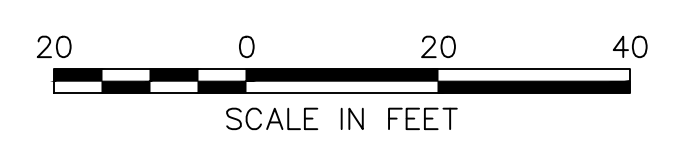
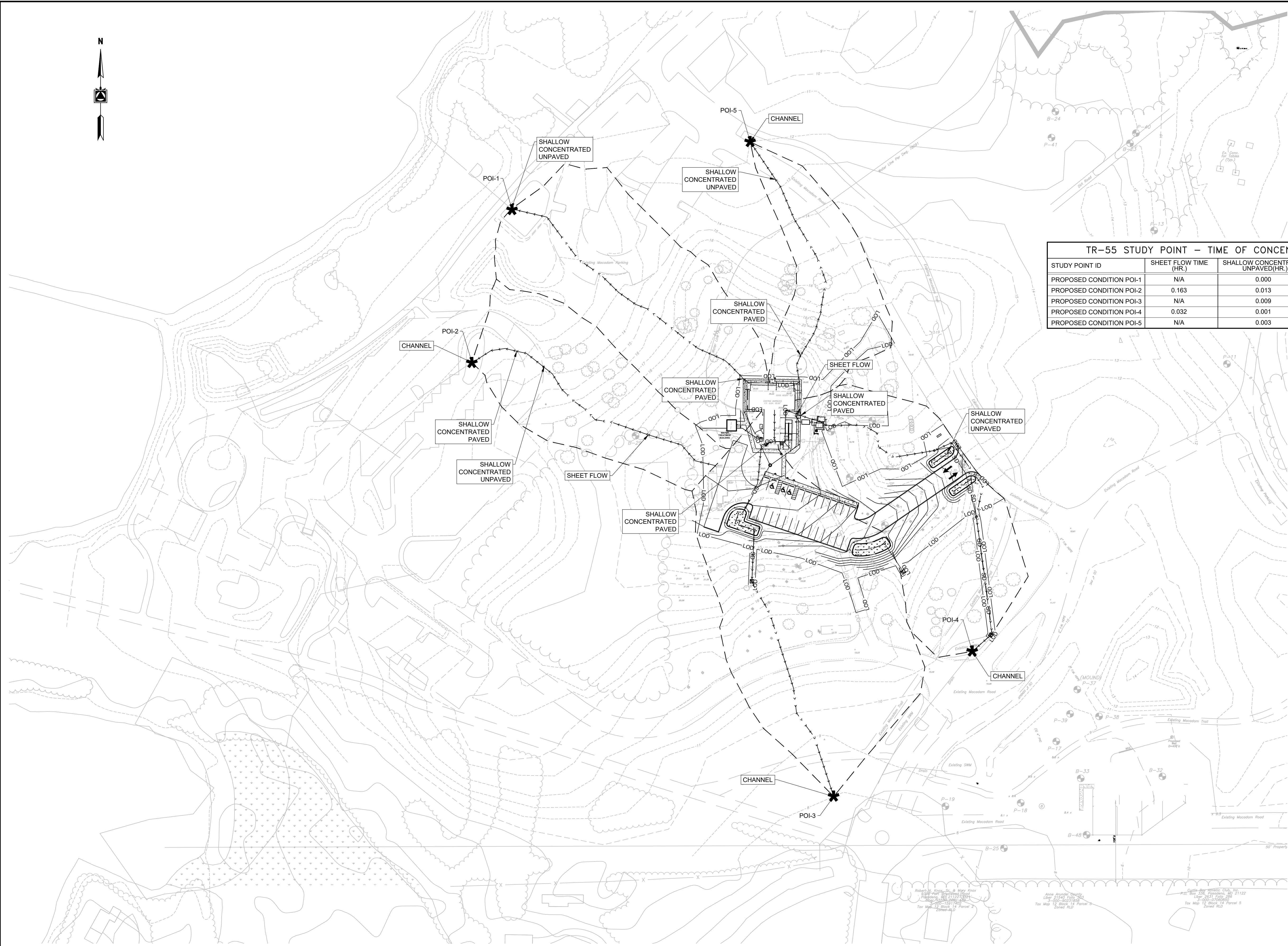
LEGEND



TR-55 DRAINAGE AREA SUMMARY		
STUDY POINT ID	TOTAL AREA (ACRES)	RUNOFF CURVE NUMBER (RCN)
PROPOSED CONDITION POI-1	1.47	39
PROPOSED CONDITION POI-2	1	45
PROPOSED CONDITION POI-3	2.12	53
PROPOSED CONDITION POI-4	1.39	45
PROPOSED CONDITION POI-5	0.76	55

TR-55 STUDY POINT - TIME OF CONCENTRATION SUMMARY					
STUDY POINT ID	SHEET FLOW TIME (HR.)	SHALLOW CONCENTRATED UNPAVED (HR.)	SHALLOW CONCENTRATED PAVED (HR.)	CONCENTRATED FLOW TIME (HR.)	TOTAL FLOW TIME (HR.)
PROPOSED CONDITION POI-1	N/A	0.000	0.032	N/A	0.1
PROPOSED CONDITION POI-2	0.163	0.013	0.002	0.004	0.182
PROPOSED CONDITION POI-3	N/A	0.009	N/A	0.036	0.1
PROPOSED CONDITION POI-4	0.032	0.001	0.017	0.019	0.1
PROPOSED CONDITION POI-5	N/A	0.003	0.019	0.004	0.1

TR-20 PEAK DISCHARGE WITH CONTROLS - 10-YEAR AND 100-YEAR EVENT		
POI	POST-DEVELOPMENT PEAK OUTFLOW - 10-YEAR EVENT (CFS)	POST-DEVELOPMENT PEAK OUTFLOW - 100-YEAR EVENT (CFS)
POI-1	0.065	2.016
POI-2	0.337	2.417
POI-3	1.706	5.07
POI-4	0.416	2.352
POI-5	1.254	2.815



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NO.	DESCRIPTION	BY	DATE

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DEPARTMENT OF PUBLIC WORKS

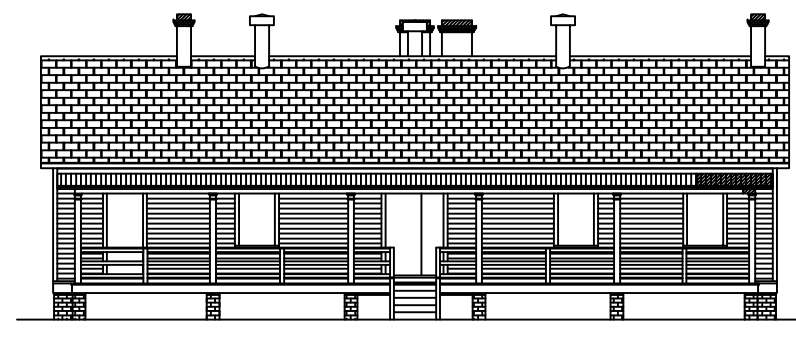
DATE: 9-25-2023

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS NOTED
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: CG
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: KW
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	SHEET NO. 22 OF 65
		PROJECT NO. P535900
		CONTRACT NO. P5359008

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

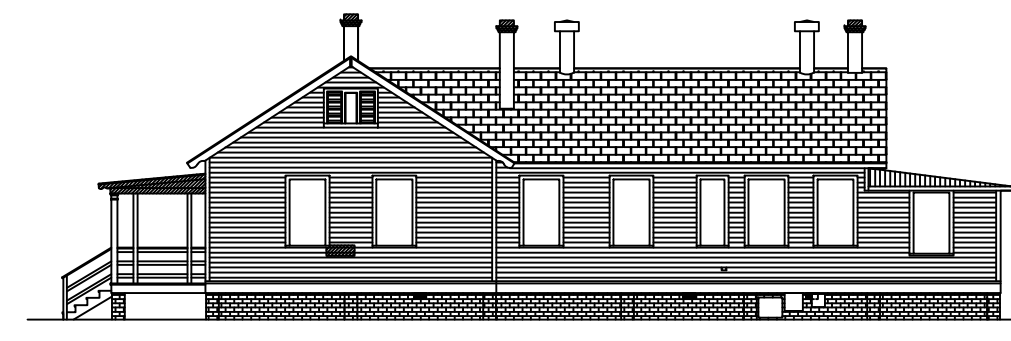
SWM POI DA MAP - POST-DEVELOPMENT

C-508



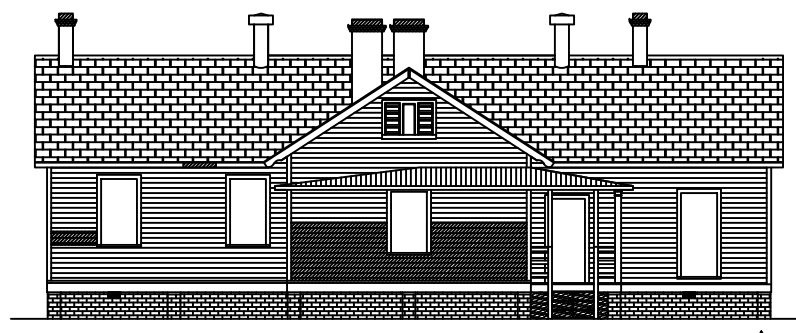
EXTERIOR NORTH

14



EXTERIOR WEST

15



EXTERIOR SOUTH

16



EXTERIOR EAST

13

- AMA AREA DESIGNATIONS
 # - LBP TREATED COMPONENT

ASBESTOS CONTAINING MATERIALS

1. NO ACM IDENTIFIED

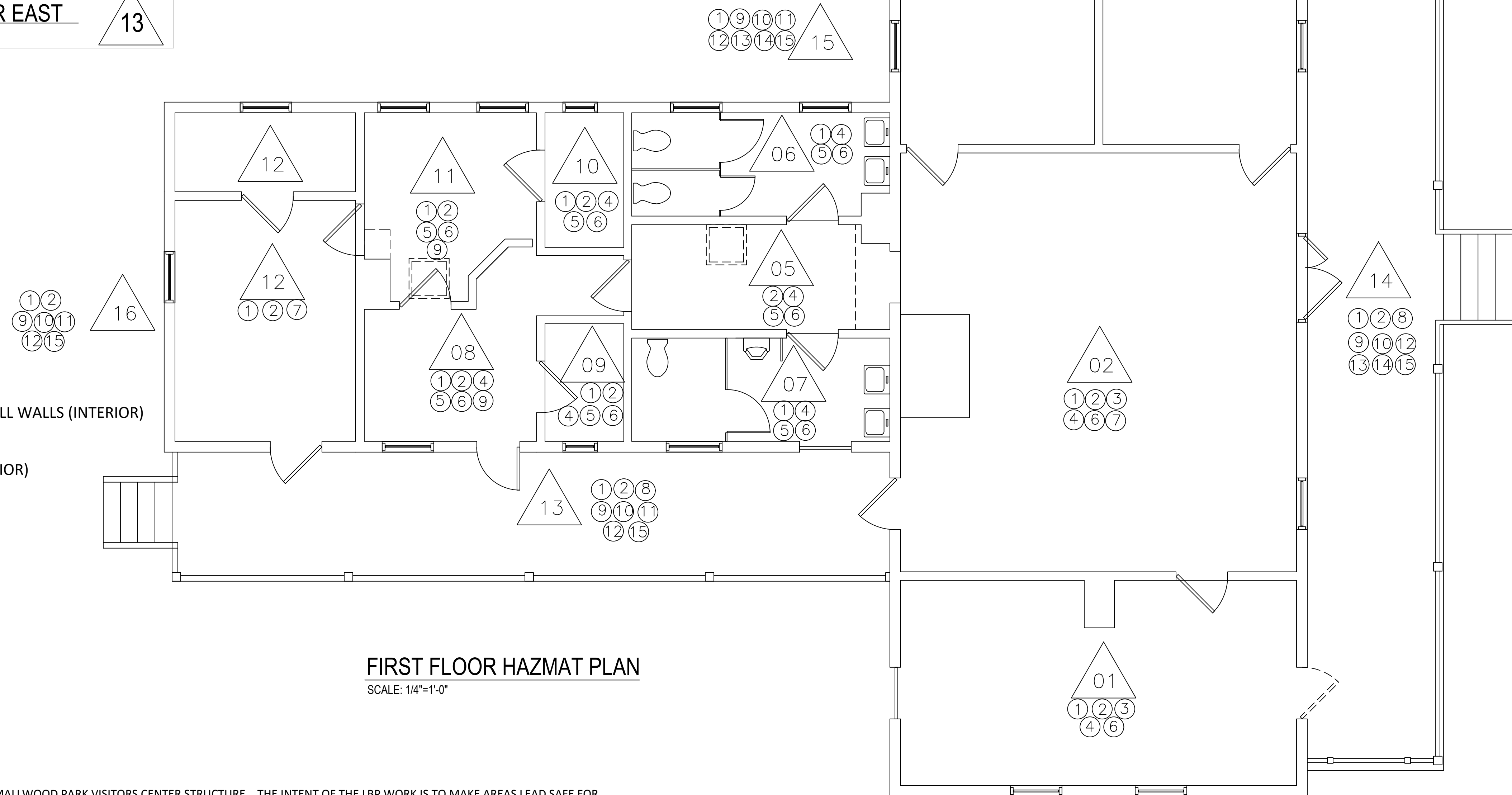
LEAD BASED PAINT

1. WOOD WINDOW SYSTEMS (INTERIOR AND EXTERIOR)
2. WOOD DOOR SYSTEMS (INTERIOR AND EXTERIOR)
3. WOOD CHAIR RAIL TRIM (INTERIOR)
4. METAL CEILING ABOVE DRYWALL (INTERIOR)
5. PLASTER WALL (ABOVE DRYWALL CEILING) * MATERIAL MAY BE LOCATED UNDER DRYWALL WALLS (INTERIOR)
6. LBP DEBRIS ABOVE CEILING IN FIBERGLASS BATTING (INTERIOR)
7. WOOD PORCH SUPPORTS - STORED (INTERIOR)
8. WOOD PORCH SYSTEMS - BEAMS, SUPPORTS, RAILINGS, CEILINGS, FLOORS, STEPS (EXTERIOR)
9. WOOD ROOF SUPPORTS - SOFFIT, FASCIA, JOISTS (INTERIOR/EXTERIOR)
10. WOOD WALL SIDING AND TRIM (EXTERIOR)
11. WOOD ATTIC LOUVER VENTS (EXTERIOR)
12. BRICK AND MASONRY BUILDING FOUNDATION (EXTERIOR)
13. BRICK CHIMNEY (EXTERIOR)
14. METAL EXHAUST ROOF VENTS (EXTERIOR)
15. LEAD PAINT DEBRIS (EXTERIOR SOIL AND SURFACES)

NOTES:

FT SMALLWOOD PARK VISITOR CENTER.

1. LEAD BASED PAINT (LBP) WAS IDENTIFIED ON THE MAJORITY OF PAINTED SURFACES OF THE INTERIOR AND EXTERIOR FT. SMALLWOOD PARK VISITORS CENTER STRUCTURE. THE INTENT OF THE LBP WORK IS TO MAKE AREAS LEAD SAFE FOR OCCUPANTS/VISITORS AND TO CLEAN UP ANY RESIDUAL PAINT CHIPS AND DEBRIS PRESENT AT THE STRUCTURE. PLEASE REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS/SPECIFICATIONS FOR INSTRUCTIONS REGARDING REMOVAL, REPAIR, PROTECTION AND OR DEMOLITION REQUIRED TO THE SURFACES. PAINTED COMPONENTS/SURFACES MUST BE STRIPPED, DEMOLISHED, STABILIZED AS INDICATED IN THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. THOSE PAINTED COMPONENTS DESIGNATED FOR REPAIR, DEMOLITION AND OR REMOVAL MUST BE HANDLED IN ACCORDANCE WITH OSHA 29 CFR 1926.62 WITH MARYLAND AMENDMENTS (LEAD IN CONSTRUCTION) AND EPA 40 CFR PART 261 (WASTE CHARACTERIZATION AND DISPOSAL) AND SPECIFICATION SECTION 02 83 13. ALL LEAD PAINT REMOVAL METHODS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE INITIATION OF THE WORK AND BE COMPLIANT WITH HISTORICAL RESTORATION REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND CONDITIONS. ALL LBP REMOVAL, STABILIZATION AND DEBRIS CLEAN UP WORK IS TO BE CONDUCTED BY EPA ACCREDITED LEAD WORKERS, USING APPROPRIATE ENGINEERING CONTROLS AND METHODS DESCRIBED IN SECTION 02 83 13.
2. LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.
3. MERCURY VAPOR LAMPS (MVL) AND LIGHT BALLASTS (NON-PCB) ARE PRESENT AT THE FT. SMALLWOOD PARK VISITORS CENTER IN THE FLUORESCENT FIXTURES. CONTRACTOR MUST DISMANTLE, PACKAGE AND DISPOSE IN ACCORDANCE WITH EPA 40 CFR 260-273, EPA 40 CFR 761 APPROXIMATELY, 142 MV LAMPS AND 76 BALLASTS WERE OBSERVED, CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND CONDITIONS.



FIRST FLOOR HAZMAT PLAN

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

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 3700 Koppers Street, Suite 300
 Baltimore, Maryland 21227-1044
 Telephone Number: 410-234-8444



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 & ANALYSIS, INC.
 1331 ASHTON ROAD, P.O. BOX 646
 HANOVER, MARYLAND 21076
 WEBSITE: WWW.AMACONSULTING.COM
 PHONE: 410-684-1327
 FAX: 410-684-3384

*PROFESSIONAL CERTIFICATION
 I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR
 APPROVED BY ME AND THAT I AM A DULY LICENSED
 ARCHITECT UNDER THE LAWS OF THE STATE OF
 MARYLAND LICENSE NUMBER 6981, EXPIRATION DATE
 05/23/2023.*

(C) GANT BRUNETT ARCHITECTS
 ALL REPRODUCTION IS PROHIBITED

					ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023		
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE: AS NOTED	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122		
△								DRAWN BY: JG	HAZMAT VISITOR CENTER PLAN		
							CHECKED BY: JB	PROJECT NO. P535900			H101
							SHEET NO.230F 65				
							CONTRACT NOP535908				
				CHIEF ENGINEER		PROJECT MANAGER					
				APPROVED	DATE	APPROVED	DATE				
				ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY					

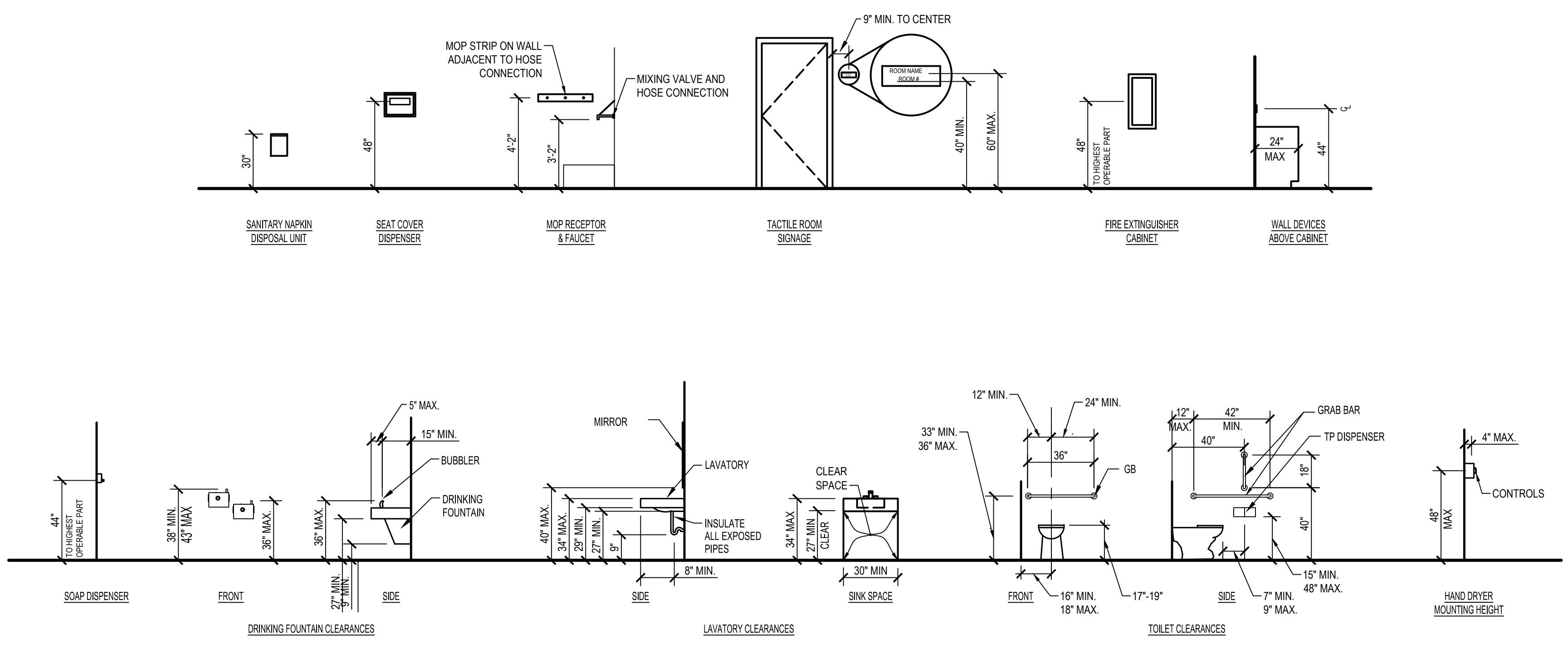
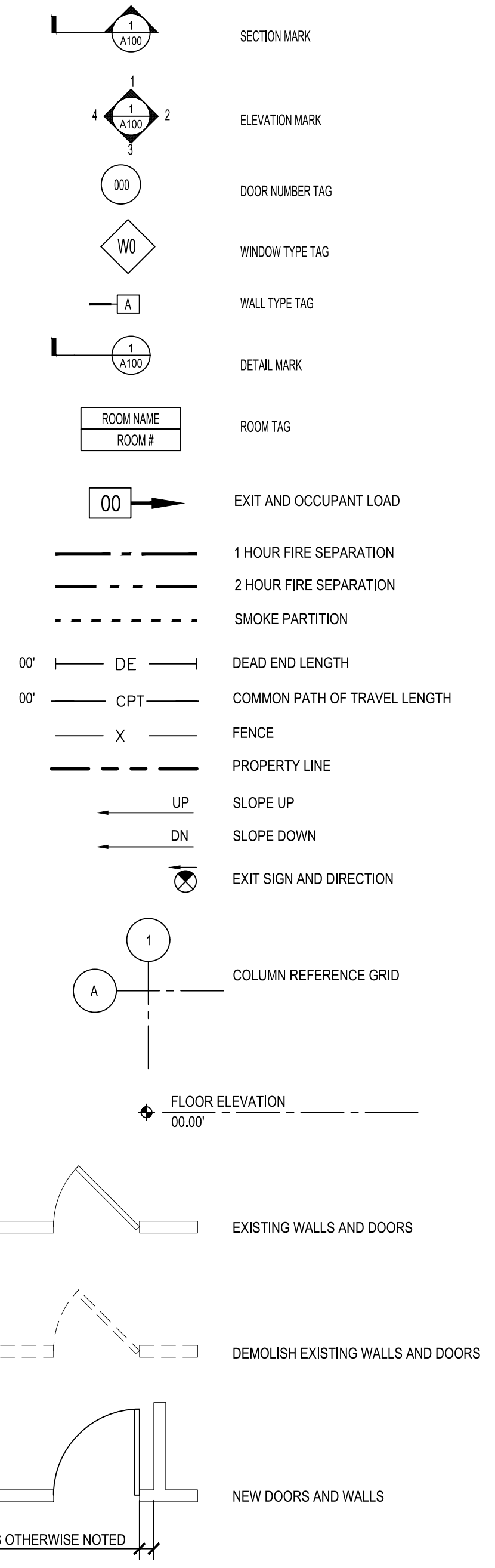
GENERAL NOTES

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. RESOLVE ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL PROVIDE OPENINGS IN FLOORS, WALLS, CEILING AND ROOF TO PROVIDE FOR THE ROUTING OF ALL NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, SIZE AND CONSTRUCTION OF ALL PENETRATIONS.
- THE CONTRACTOR SHALL NOT RELY ON MEASUREMENTS SCALED FROM THESE DRAWINGS.
- DIMENSIONS SHOWN ARE TO THE FACE OF FINISH SURFACE UNLESS OTHERWISE NOTED.
- ALL GLAZING SHALL BE IN ACCORDANCE WITH CONSUMER PRODUCT SAFETY COMMISSION 16 CFR PART 1201 (1977) SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS.
- FIRE RATED WALLS SHALL EXTEND TIGHT TO THE UNDERSIDE OF THE DECK ABOVE. SEAL ALL GAPS.
- THE CONTRACTOR SHALL SEAL THE ANNULAR SPACE AT ALL PENETRATIONS THROUGH HORIZONTAL AND CEILING/ROOF NON-FIRE RATED ASSEMBLIES WITH A NON-COMBUSTIBLE APPROVED MATERIAL.
- PENETRATIONS THROUGH ANY FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UL-DESIGN DESIGNATION AND THE ANNULAR SPACE AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH AN APPROVED MATERIAL TESTED AND LABELED BY UL.
- ALL CONSTRUCTION OF FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY DESIGN AS DESIGNATED ON THESE DRAWINGS. THE CONTRACTOR SHALL PROVIDE MATERIALS & CONSTRUCTION STRICTLY IN ACCORDANCE WITH THE UL DESIGN DESIGNATIONS.
- PLUMBING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH ANNE ARUNDEL COUNTY PLUMBING CODE AND SUBJECT TO FIELD INSPECTION BY THE AGENCIES HAVING JURISDICTION.
- ELECTRICAL CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS AND REVISIONS OF THE NATIONAL ELECTRICAL CODE.
- MECHANICAL CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF INTERNATIONAL MECHANICAL CODE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES (5) FIVE DAYS PRIOR TO THE START OF WORK ON-SITE:
 - MISS UTILITIES
 - ANNE ARUNDEL COUNTY INSPECTIONS AND PERMITS
- CONTRACTOR SHALL PROPERLY PREPARE ALL SURFACES INDICATED TO BE PAINTED, INCLUDING, BUT NOT LIMITED TO CLEANING AND SANDING BEFORE PRIMING AND BETWEEN COATS. UNLESS OTHERWISE NOTED WALL FINISHES SHALL BE APPLIED FROM FINISHED FLOOR TO FINISHED CEILING.
- INTERIOR FINISHES FOR WALLS AND CEILINGS SHALL MEET:
 - ASTM E84 and IBC 2018 TABLE 803.1.3
 - ALL FLOOR FINISHES SHALL MEET DOC FF-1 AND NFPA
- UNLESS OTHERWISE INDICATED, TRANSITION OF FINISHES SHALL OCCUR UNDER DOOR BETWEEN ROOMS.
- SURFACES NOT INDICATED WITH A FINISH SHALL RECEIVE THE SAME FINISH AS THE ADJACENT INDICATED SPACE.
- COAT ALL EXPOSED SURFACES OF GYPSUM WALLBOARD, PLASTER, UNFINISHED WOOD AND UNFINISHED STEEL WITH PRIMER AND TWO COATS OF PAINT UNLESS OTHERWISE NOTED.
- PROVIDE TRANSITION STRIPS WHERE TWO DIFFERENT FLOOR FINISHES MEET. (TYPICAL)
- PROVIDE 2 LAYERS 5/8" FIRE CODE GYPSUM AROUND PENETRATIONS FOR FIRE EXTINGUISHER CABINETS IN RATED WALLS.
- EXTEND GYPSUM WALLBOARD FULL LENGTH AND HEIGHT OF WALL BEHIND CABINETS. (TYPICAL)
- CONTRACTOR SHALL CONSTRUCT A CHAIN LINK CONSTRUCTION FENCE AROUND THE ENTIRE L.O.D. AND SHALL BE PROVIDED UNDER THE GENERAL CONSTRUCTION CONTRACT. THE FENCE SHALL BE REMOVED AT THE END OF THE CONSTRUCTION PHASE UNDER GENERAL CONSTRUCTION CONTRACT.
- CAULK PERIMETER OF ALL FLOOR AND WALL MOUNTED PLUMBING FIXTURES AND COUNTER TOPS.
- PROVIDE SOLID WOOD FIRE RETARDANT TREATED BLOCKING BEHIND WALL MOUNTED HARDWARE, CABINETS, EQUIPMENT AND HANDRAILS, MINIMUM SIZE TO BE 2x6 LUMBER.
- DO NOT CUT STUDS FOR HORIZONTAL PIPE RUNS. FEED PIPE FROM OVER HEAD BETWEEN STUDS.
- CONTRACTOR SHALL PROVIDE UTILITY LOCATION SERVICES (ABOVE AND BEYOND THOSE CONDUCTED BY MISS UTILITIES) PRIOR TO EXCAVATION OF EARTH.
- LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.**

ABBREVIATIONS

ACT	ACOUSTICAL TILE	MFR	MANUFACTURER
ADA	AMERICANS WITH DISABILITIES ACT	MH	MANHOLE
AFF	ABOVE FINISH FLOOR	MIN	MINIMUM
ALI	ACOUSTICAL LAY-IN PANEL	MTD	MOUNTED
ALUM	ALUMINUM	MTL	METAL
ANL	ANODIZED ALUMINUM	NIC	NOT IN CONTRACT
BOC	BOTTOM OF CURB	OC	ON CENTER
BTC	BITUMINOUS CONCRETE	PCC	PORTLAND CEMENT CONCRETE
CG	CORNER GUARD	PLM	PLASTIC LAMINATE
CJ	CONTROL JOINT	PT	PRESERVATIVE TREATED
CL	CLEAR	PTD	PAPER TOWEL DISPENSER
CLT	CLOSET	S	SEWER
CMFB	CEMENT FIBER BOARD	SS	STAINLESS STEEL
CONC	CONCRETE	SD	SOAP DISPENSER
CONT	CONTINUOUS	SIM	SIMILAR
CMU	CONCRETE MASONRY UNIT	SND	SANITARY NAPKIN DISPENSER
DB	DIRECT BURIAL	TOC	TOP OF CURB
DS	DOWNSPOUT	TOF	TOP OF FOOTING
EDB	EDGE BAND	TPD	TOILET PAPER DISPENSER
ELEV	ELEVATION	TS	TRANSITION STRIP
EXIST	EXISTING	TSOD	TOILET SEAT COVER DISPENSER
FEC	FIRE EXTINGUISHER CABINET	TYP	TYPICAL
FBGL	FIBERGLASS	UL	UNDERWRITERS LABORATORIES
FRT	FIRE RESISTANT TREATED	U.O.N.	UNLESS OTHERWISE NOTED
FRT-MDF	FIRE RESISTANT TREATED MEDIUM DENSITY FIBER	VCT	VINYL COMPOSITION TILE
GWB	GYPSUM WALLBOARD	WLCVR	WALL COVERING
GB	GRAB BAR	W/	WITH
GA	GAUGE	W	WATER
GALV	GALVANIZED	WD	WOOD
HM	HOLLOW METAL	WR	WATER RESISTANT
INSUL	INSULATION	WVN	WOOD VENEER
INC	INCLUDED	WWF	WELDED WIRE FABRIC

SYMBOL LEGEND



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

 3700 Koppers Street, Suite 300 Baltimore, Maryland 21227-1044 Telephone Number: 410-234-8444	*PROFESSIONAL CERTIFICATION I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER C1386, EXPIRATION DATE 01/11/2025.* (C) GANT BRUNETT ARCHITECTS ALL REPRODUCTION IS PROHIBITED	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DESCRIPTION	BY	DATE													ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023
			NO.	DESCRIPTION	BY	DATE																	
APPROVED _____ DATE _____		APPROVED _____ DATE _____		SCALE: AS NOTED	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122																		
CHIEF ENGINEER _____		PROJECT MANAGER _____		CHECKED BY: JB																			
APPROVED _____ DATE _____		APPROVED _____ DATE _____		SHEET NO. 24 OF 65																			
ASSISTANT CHIEF ENGINEER _____		CHIEF, RIGHT OF WAY _____		PROJECT NO. P535900 CONTRACT NO. P535908																			
				VISITOR CENTER GENERAL NOTES	G101																		

VISITOR CENTER BUILDING CODE ANALYSIS

BUILDING CODE DATA

PROPERTY ADDRESS:
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

BUILDING TO BE KNOWN AS: VISITOR CENTER

FIRE DISTRICT: ANNE ARUNDEL COUNTY

LAND ZONING DESIGNATION: OS

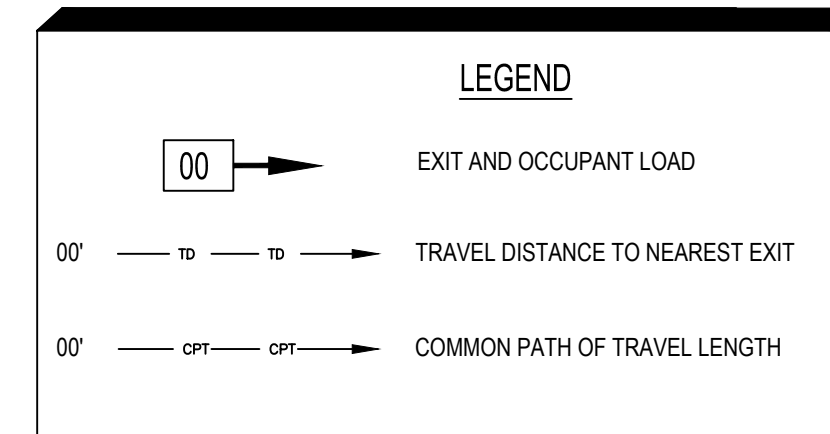
GENERAL DESCRIPTIONS OF BUILDING USE: VISITOR CENTER

APPLICABLE BUILDING CODES

INTERNATIONAL BUILDING CODE 2018
INTERNATIONAL EXISTING BUILDING CODE 2018
INTERNATIONAL MECHANICAL CODE 2018
INTERNATIONAL PLUMBING CODE 2018
INTERNATIONAL ENERGY CONSERVATION CODE 2018
INTERNATIONAL FUEL GAS CODE 2018
NATIONAL ELECTRIC CODE 2017
NFPA 101 LIFE SAFETY CODE 2018
NFPA 1 FIRE PROTECTION CODE 2018
NFPA 13 AUTOMATIC SPRINKLER SYSTEMS CODE 2016
NFPA 72 FIRE ALARM CODE 2016
INTERNATIONAL CODE COUNCIL, ICC A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

CLASSIFICATION OF WORK

USE GROUP: B (BUSINESS)
CONSTRUCTION TYPE: VB PER IBC 2018



FIRE PROTECTION

AUTOMATIC SPRINKLER SYSTEMS: NOT REQUIRED

FIRE ALARM: NOT REQUIRED

FIRE RESISTANCE RATING FOR BUILDING COMPONENTS:

PRIMARY STRUCTURAL FRAME	-0-
BEARING WALLS	-0-
EXTERIOR	-0-
INTERIOR	-0-
NONBEARING WALLS	-0-
EXTERIOR LESS THAN 10' SEPARATION	-0-
EXTERIOR GREATER THAN 10' SEPARATION	-0-
INTERIOR	-0-
FLOOR CONSTRUCTION	-0-
ROOF CONSTRUCTION	-0-

INTERIOR FINISHES

2018 IBC TABLE 903.1.3
GROUP: B (BUSINESS)
AUTOMATIC SPRINKLER SYSTEMS: (NON SPRINKLERED)

INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS:

RATING: (A)

CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS:

RATING: (B)

ROOMS AND ENCLOSED SPACES:

RATING: (C)

AREA LIMITATIONS

ALLOWABLE AREA PER FLOOR: 9,000 SF
ACTUAL BUILDING AREA: 2,320 GSF

HEIGHT LIMITATIONS:

ALLOWABLE HEIGHT: 2 STORIES
ACTUAL BUILDING HEIGHT: 1 STORY

OCCUPANT LOAD PER FLOOR

TOTAL OCCUPANT LOAD = 47

EXIT CAPACITY

DOOR CLEAR WIDTH REQUIRED: 47 OCCUPANTS x 0.2' = 9.4'
TOTAL DOOR CLEAR WIDTH PROVIDED: 160'
NUMBER OF EXITS = 4

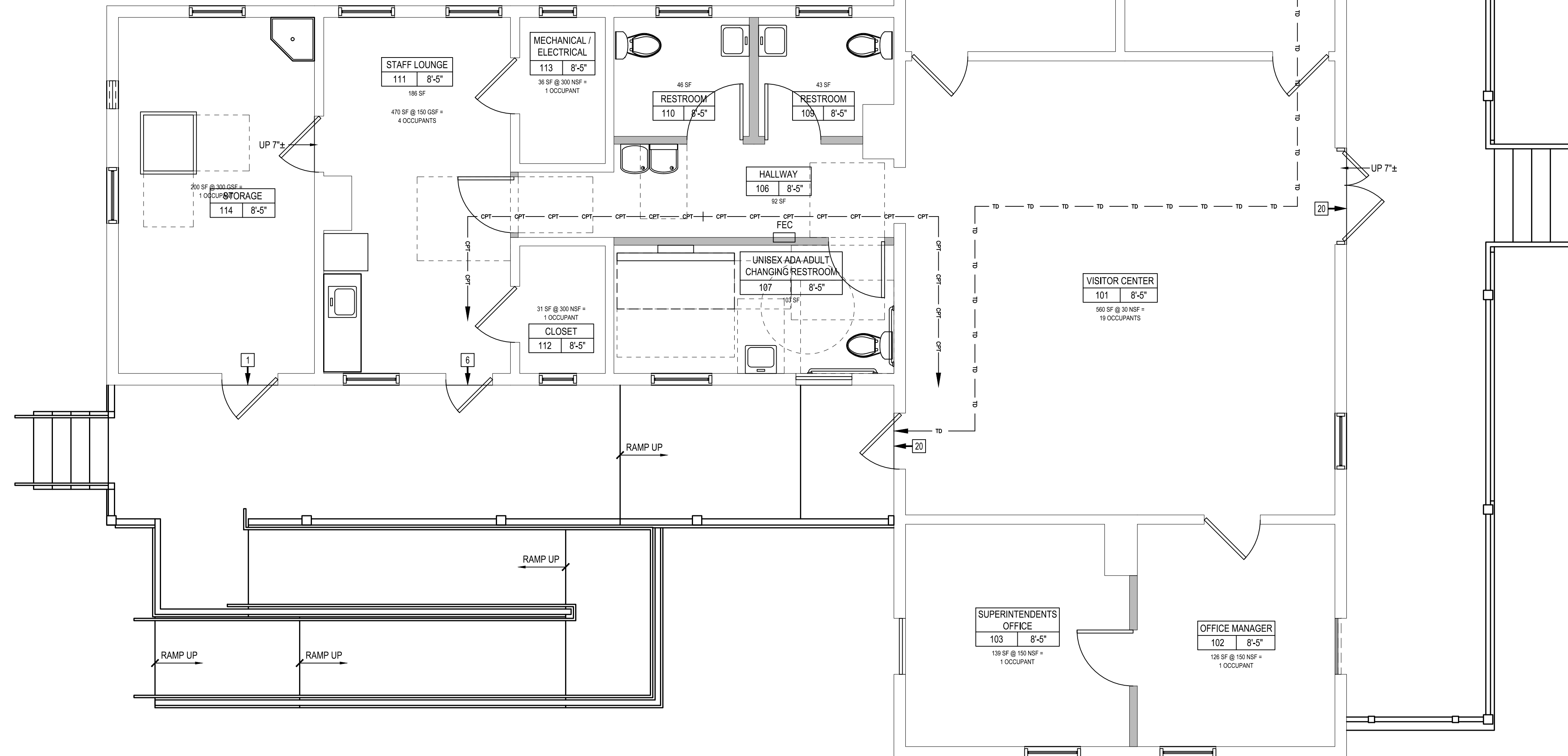
PLUMBING FIXTURE COUNT REQUIRED

BUSINESS CLASSIFICATION: 47 OCCUPANTS	MALE	FEMALE
WATER CLOSETS REQUIRED	24	24
LAVATORIES REQUIRED	1	1

TOTAL WATER CLOSETS PROVIDED: 3
TOTAL LAVATORIES PROVIDED: 3

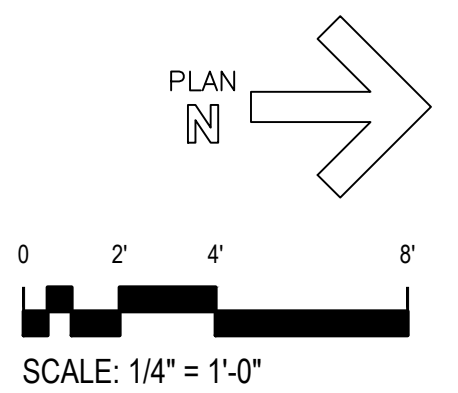
DRINKING FOUNTAIN REQUIRED = 1
DRINKING FOUNTAIN PROVIDED = 2

SERVICE SINK REQUIRED = 1
SERVICE SINK PROVIDED = 1



CODE ANALYSIS PLAN

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



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gant-brunnett
ARCHITECTS
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227-1044
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△			

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APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

**FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER**
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

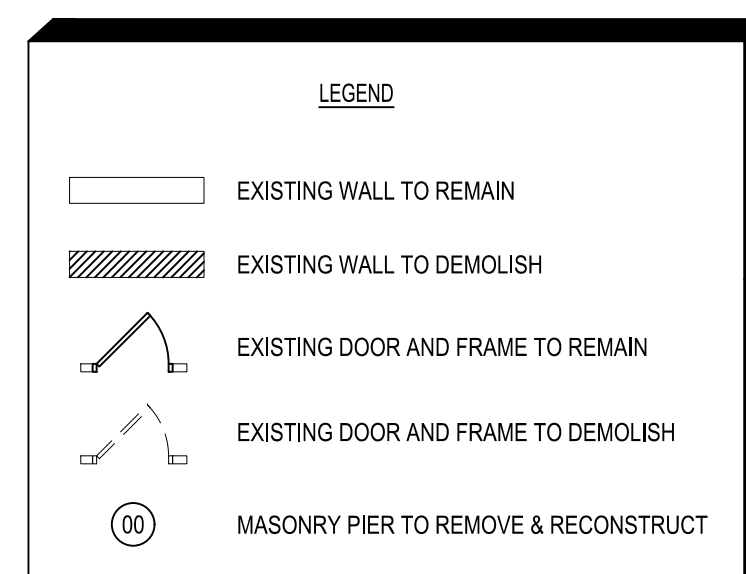
**VISITOR CENTER
CODE ANALYSIS**

CA101

SCALE: AS NOTED
DRAWN BY: JL
CHECKED BY: JB
SHEET NO. 25 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

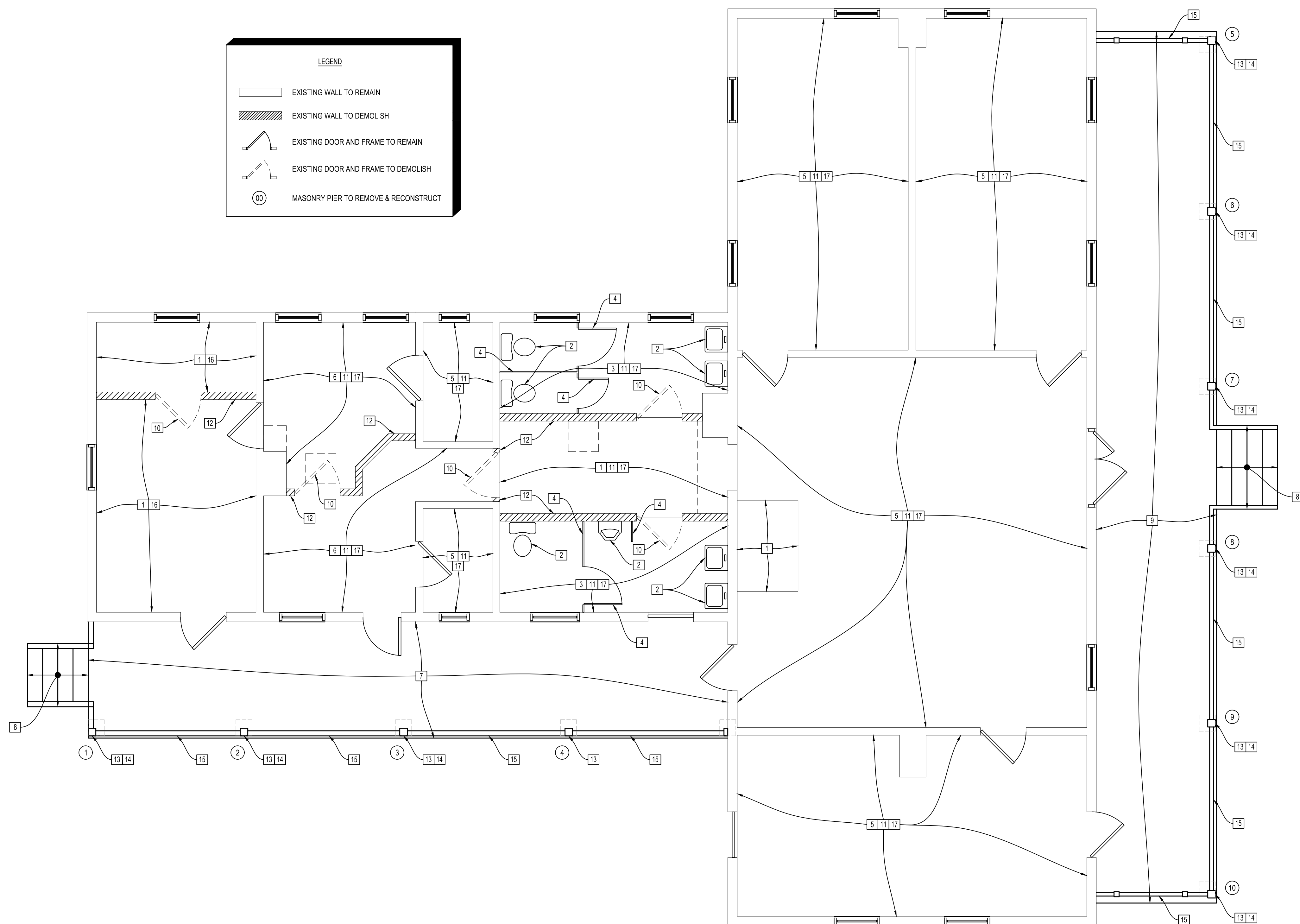
DEMOLITION GENERAL NOTES

- IT IS THE INTENT OF THIS CONTRACT THAT THE BUILDING BE SELECTIVELY DEMOLISHED AS OUTLINED ON THE DRAWINGS IN PREPARATION FOR NEW WORK.
- TEMPORARILY ENCLOSE AREAS EXPOSED TO THE ELEMENTS TO ENSURE THE WEATHER TIGHTNESS OF THE BUILDING AT ALL TIMES.
- PROTECT BUILDING FROM DAMAGE WHILE REMOVING AND STORING ITEMS DESIGNATED TO BE SALVAGED.
- THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE SCOPE AND LIMITS OF NEW WORK.
- CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING AND TEMPORARY SUPPORT AS NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES TO REMAIN.
- CONTRACTOR SHALL REMOVE ALL EXTRANEOUS ANCHORS, FASTENERS, WALL HANGERS, PROTRUSIONS AND ACCESSORIES ON EXISTING WALL SURFACES TO REMAIN.
- WHERE INDICATED TO "DEMOLISH" OR "REMOVE", CONTRACTOR SHALL COMPLETELY DEMOLISH THE EXISTING PHYSICAL FEATURE AND DISPOSE OF THE MATERIALS OFF-SITE IN A LEGAL MANNER. ON-SITE BURNING OF MATERIAL SHALL NOT BE ALLOWED.
- REMOVE ALL TRASH AND DELETERIOUS MATERIALS FROM THE SITE.
- NOTIFY THE ARCHITECT AND OWNER BEFORE STARTING WORK.
- SECURE OPENINGS AGAINST WEATHER DAMAGE AND UNAUTHORIZED ENTRY AT THE END OF EACH WORK DAY.
- PROTECT ALL EXISTING STRUCTURE, MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS INDICATED TO REMAIN.
- PROTECT ALL EXISTING FINISHES SCHEDULED TO REMAIN.
- LEAVE DEMOLISHED AREAS READY TO RECEIVE NEW WORK. AFTER DEMOLITION IS COMPLETE, CONTRACTOR TO REPAIR ALL DAMAGE.
- COMPLY WITH ALL LOCAL AND STATE CODES.
- MAINTAIN TOTAL CONTROL OF DUST, AND BLOWING, AND DROPPING DEBRIS.
- KEEP ALL SURROUNDING TRAFFICWAYS, BOTH PEDESTRIAN AND VEHICULAR, OPEN AND CLEAN AT ALL TIMES.
- LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.**



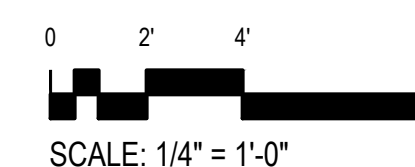
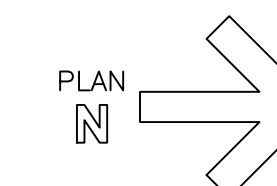
KEYED DEMOLITION NOTES

- REMOVE FLOOR FINISH DOWN TO EXISTING DECK. PREPARE SUBSTRATE TO RECEIVE NEW FINISH.
- DEMOLISH PLUMBING FIXTURES, ASSOCIATED LINES AND ALL TOILET ACCESSORIES.
- DEMOLISH TILE FLOOR FINISH AND WALL BASE DOWN TO THE EXISTING DECK SUBSTRATE. PREPARE SUBSTRATE TO RECEIVE NEW FINISH.
- DEMOLISH EXISTING TOILET PARTITIONS.
- SAND FLOOR, PREPARE SUBSTRATE TO RECEIVE NEW FINISH AND PROTECT EXISTING WALL BASE.
- PREPARE PLYWOOD DECK SUBSTRATE FOR NEW FINISH.
- DEMOLISH ENTIRE EXISTING DECK STRUCTURE. SEE STRUCTURAL DRAWINGS FOR SCOPE OF DEMOLITION.
- DEMOLISH AND RECONSTRUCT STAIR.
- DEMOLISH AND REPLACE EXISTING DECKING, FRAMING BELOW TO REMAIN. SEE STRUCTURAL DRAWINGS FOR SCOPE OF DEMOLITION.
- DEMOLISH EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE.
- PATCH DAMAGED WALLS AND DRYWALL CEILING. REMOVE AND RETAPE DRYWALL CEILING JOINTS.
- DEMOLISH EXISTING PARTITION - FLOOR TO CEILING.
- REMOVE AND RECONSTRUCT FREE STANDING MASONRY PIER SUPPORTS. EXISTING BRICK PIER TO BE REBUILT FROM ONE COARSE BELOW GRADE TO BEAM BEARING. SALVAGE AND REINSTALL GRANITE STONE CAPS. (SEE DETAIL 4/A502).
- PROTECT AND SALVAGE EXISTING WOOD COLUMNS ABOVE DECK. STRIP PAINT FROM COLUMNS PER SPECIFICATION SECTION 02 83 13, DOWN TO BARE WOOD. PATCH AND REPAIR ANY WOOD DAMAGE. PRIME AND PAINT WITH (2) FINISH COATS.
- DEMOLISH EXISTING WOOD GUARDRAIL.
- REMOVE EXISTING WALLBOARD ON WALLS AND CEILING. REMOVE EXISTING CAVITY WALL INSULATION AND ATTIC/CEILING INSULATION.
- REMOVE ALL EXISTING ATTIC/CEILING INSULATION THROUGHOUT THE ENTIRE BUILDING.



FIRST FLOOR DEMOLITION PLAN

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



gba
gant-brunnett
ARCHITECTS
3700 Koppers Street, Suite 300
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APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

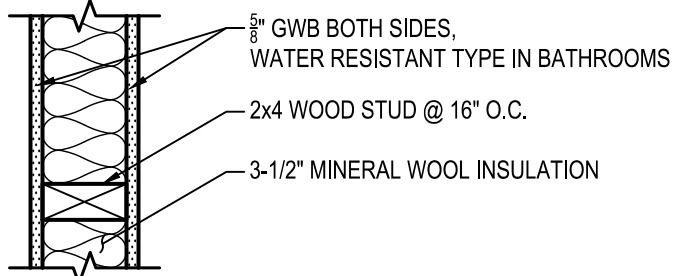
**FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER**
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

**VISITOR CENTER
DEMOLITION FLOOR PLAN**

D101

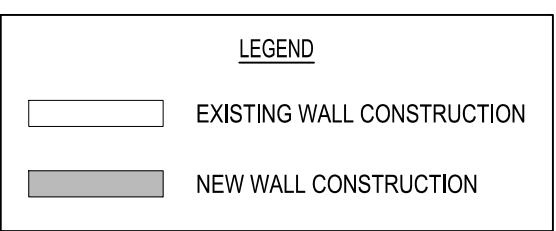
SCALE: AS NOTED
DRAWN BY: JL
CHECKED BY: JB
SHEET NO. 26 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

FINISH SCHEDULE					
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING
101	VISITOR CENTER	SAND, STAIN AND APPLY (2) CLEAR COATS OF URETHANE TO EXISTING WOOD PLANK FLOOR	PAINTED EXISTING 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
102	OFFICE MANAGER	SAND, STAIN AND APPLY (2) CLEAR COATS OF URETHANE TO EXISTING WOOD PLANK FLOOR	PAINTED EXISTING 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
103	SUPERINTENDENTS OFFICE	SAND, STAIN AND APPLY (2) CLEAR COATS OF URETHANE TO EXISTING WOOD PLANK FLOOR	PAINTED EXISTING 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
104	CONFERENCE	SAND, STAIN AND APPLY (2) CLEAR COATS OF URETHANE TO EXISTING WOOD PLANK FLOOR	PAINTED EXISTING 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
105	OPEN OFFICE WORK SPACE	SAND, STAIN AND APPLY (2) CLEAR COATS OF URETHANE TO EXISTING WOOD PLANK FLOOR	PAINTED EXISTING 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
106	HALLWAY	NEW LVT WITH 1/4" UNDERLAYMENT	PAINTED NEW 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
107	UNISEX ADA ADULT CHANGING RESTROOM	NEW LVT WITH 1/4" UNDERLAYMENT	PAINTED NEW 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
109	RESTROOM	NEW LVT WITH 1/4" UNDERLAYMENT	PAINTED NEW 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
110	RESTROOM	NEW LVT WITH 1/4" UNDERLAYMENT	PAINTED NEW 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
111	STAFF LOUNGE	NEW LVT WITH 1/4" UNDERLAYMENT	PAINTED NEW 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
112	CLOSET	NEW LVT WITH 1/4" UNDERLAYMENT	PAINTED NEW 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
113	MECHANICAL / ELECTRICAL	NEW LVT WITH 1/4" UNDERLAYMENT	PAINTED NEW 8" WOOD	PAINTED EXISTING DRYWALL	PAINTED EXISTING DRYWALL
114	STORAGE	NEW LVT WITH 1/4" UNDERLAYMENT	PAINTED NEW 8" WOOD	PAINTED NEW DRYWALL	PAINTED NEW DRYWALL



A CONSTRUCT WALL FROM FINISH FLOOR TO UNDERSIDE OF CEILING ABOVE
A6 - 2x6 WOOD STUD

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

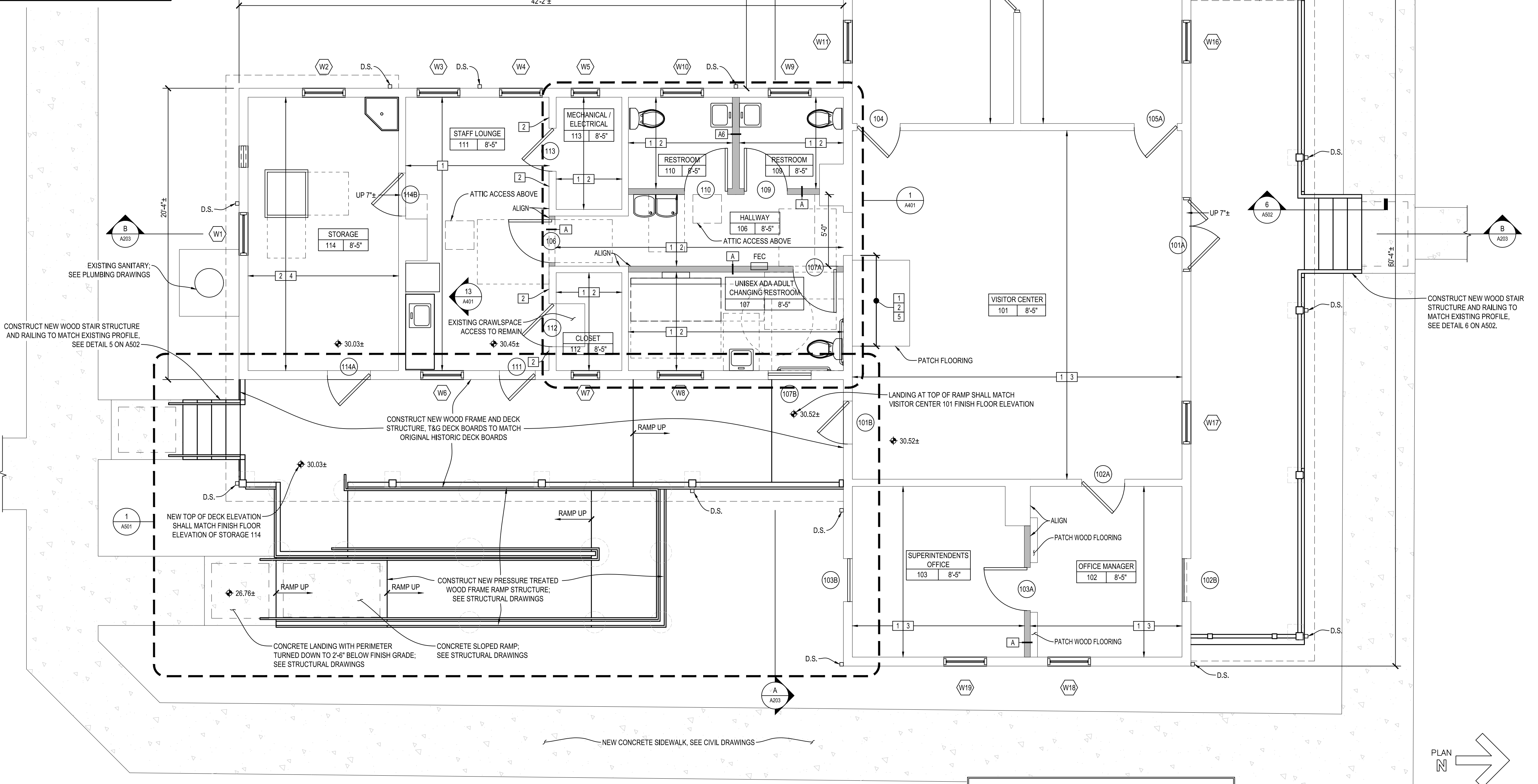


DRAWING NOTES

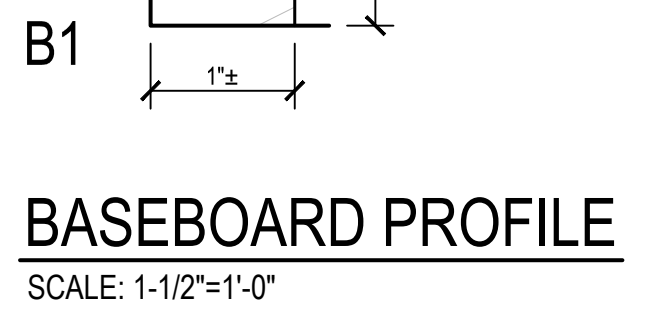
1. PATCH AND PAINT EXISTING WALLBOARD WALLS.
2. DEMOLISH EXISTING WALL BASE AND PROVIDE NEW 8" PAINTED WALL BASE (B1).
3. STRIP LEAD PAINT FROM EXISTING CHAIR RAIL MOLDING PER SPECIFICATION SECTION 02 83 13.
4. DEMOLISH EXISTING WALLBOARD AND PROVIDE NEW PAINTED GYPSUM WALLBOARD.
5. PROVIDE NEW CHAIR RAIL MOLDING TO MATCH EXISTING PROFILE.

GENERAL NOTES

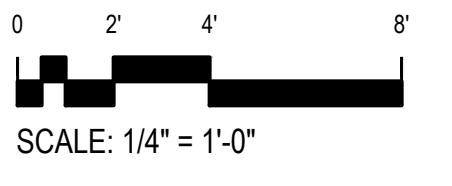
1. INSULATE CRAWL SPACE IN ITS ENTIRETY WITH (1) LAYER R-23 MINERAL WOOL INSULATION AND (1) LAYER R-13 FOIL FACED POLYISOCYANURATE CONTINUOUS INSULATION. SEE DETAIL 1 ON A203.



FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"



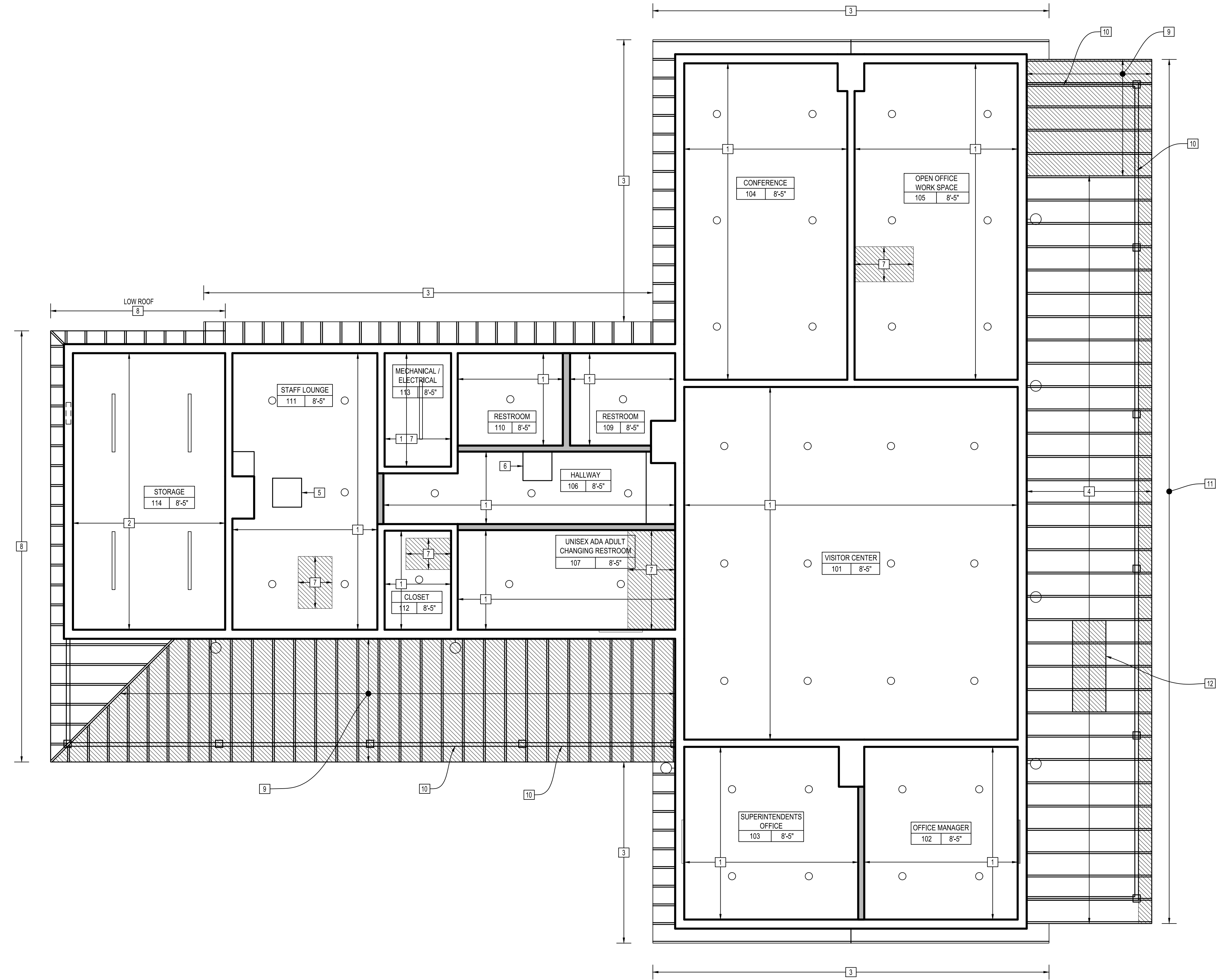
LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.



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		<p>APPROVED DATE APPROVED DATE</p>		<p>APPROVED DATE APPROVED DATE</p>		<p>VISITOR CENTER FLOOR PLAN</p>	<p>A101</p>	

KEYED CEILING PLAN NOTES

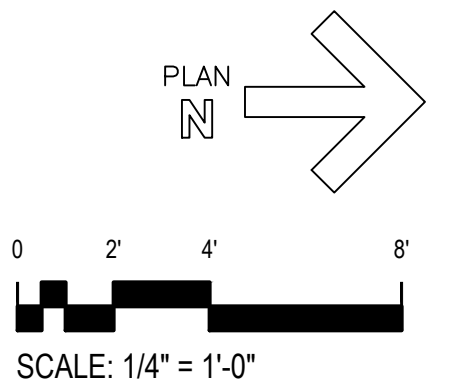
1. EXISTING GYPSUM WALLBOARD CEILING TO REMAIN. REMOVE ATTIC INSULATION ABOVE CEILING AND INSTALL (1) LAYER OF NEW MINERAL WOOL R-23 INSULATION AND (1) LAYER OF NEW MINERAL WOOL R-30 INSULATION. PATCH AND PAINT GYPSUM WALLBOARD CEILING. DO NOT DISTURB EXISTING TIN CEILING THAT IS ABOVE THE EXISTING WALLBOARD CEILING.
2. REMOVE EXISTING CEILING AND ATTIC INSULATION. CONSTRUCT NEW ½" GYPSUM WALLBOARD CEILING WITH NEW MINERAL WOOL R-53 INSULATION ON NEW CEILING JOISTS.
3. STRIP ALL PAINTED SURFACES OF EXISTING EXPOSED WOOD FRAMING AT ROOF EAVE TO BARE WOOD SUBSTRATE PER SPECIFICATION SECTION 02 83 13. PATCH AND REPAIR WOOD SURFACES TO A SMOOTH CONDITION. PRIME AND PAINT WITH (2) FINISH COATS.
4. STRIP ALL PAINTED SURFACES TO BARE WOOD SUBSTRATE PER SPECIFICATION SECTION 02 83 13 INCLUDING, BUT NOT LIMITED TO, EXISTING EXPOSED WOOD RAFTERS, RAFTER TAILS, UNDERSIDE OF ROOF SHEATHING, FASCIA BOARDS, AND SUPPORT BEAMS. PATCH AND REPAIR ALL SURFACES TO A SMOOTH CONDITION. PRIME AND PAINT WITH (2) FINISH COATS.
5. PROVIDE NEW 24" x 24" INSULATED ATTIC ACCESS PANEL.
6. RELOCATE EXISTING ATTIC ACCESS, RE-FRAME AND PROVIDE NEW 24" x 24" INSULATED ATTIC ACCESS PANEL.
7. PATCH AND REPAIR OPENING IN GYPSUM WALLBOARD CEILING.
8. REPLACE ALL EXISTING RAFTERS WITH NEW 1½" ACTUAL x 3¾" ACTUAL RAFTERS.
9. REMOVE AND REPLACE EXISTING RAFTERS, 3" ACTUAL x 1" ACTUAL T&G BEAD BOARD SHEATHING AND ROOF FASCIA.
10. REPLACE 6x6 BEAM, COLUMN TO COLUMN, PRIME AND PAINT ALL NEW WOOD SURFACES WITH (2) FINISH COATS.
11. REPLACE (4) ROWS OF BOARD SHEATHING TO MATCH EXISTING T&G BOARDS - ENTIRE LENGTH OF PORCH EAVE.
12. REMOVE AND REPLACE (4) EXISTING ROWS OF ROOF SHEATHING WITH NEW 3" ACTUAL x 1" ACTUAL x 6' LONG T&G BEAD BOARD SHEATHING TOOTHED INTO EXISTING SHEATHING



REFLECTED CEILING PLAN

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

LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.



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gant-brunnett
ARCHITECTS
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227-1044
Telephone Number: 410-234-8444

*PROFESSIONAL CERTIFICATION
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(C) GANT BRUNETT ARCHITECTS
ALL REPRODUCTION IS PROHIBITED

NO.	DESCRIPTION	BY	DATE
△			

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

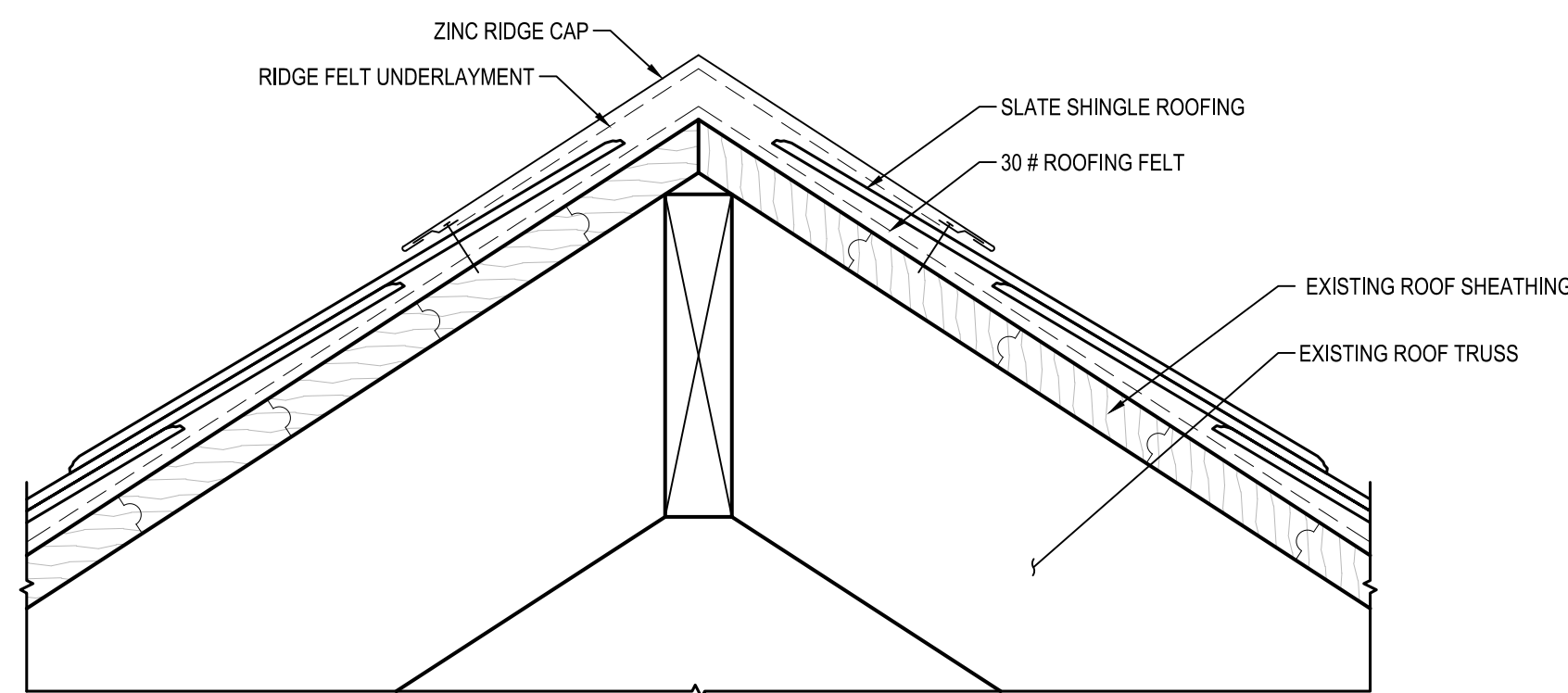
VISITOR CENTER
REFLECTED CEILING PLAN

A102

SCALE: AS NOTED
DRAWN BY: JL
CHECKED BY: JB
SHEET NO. 28 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

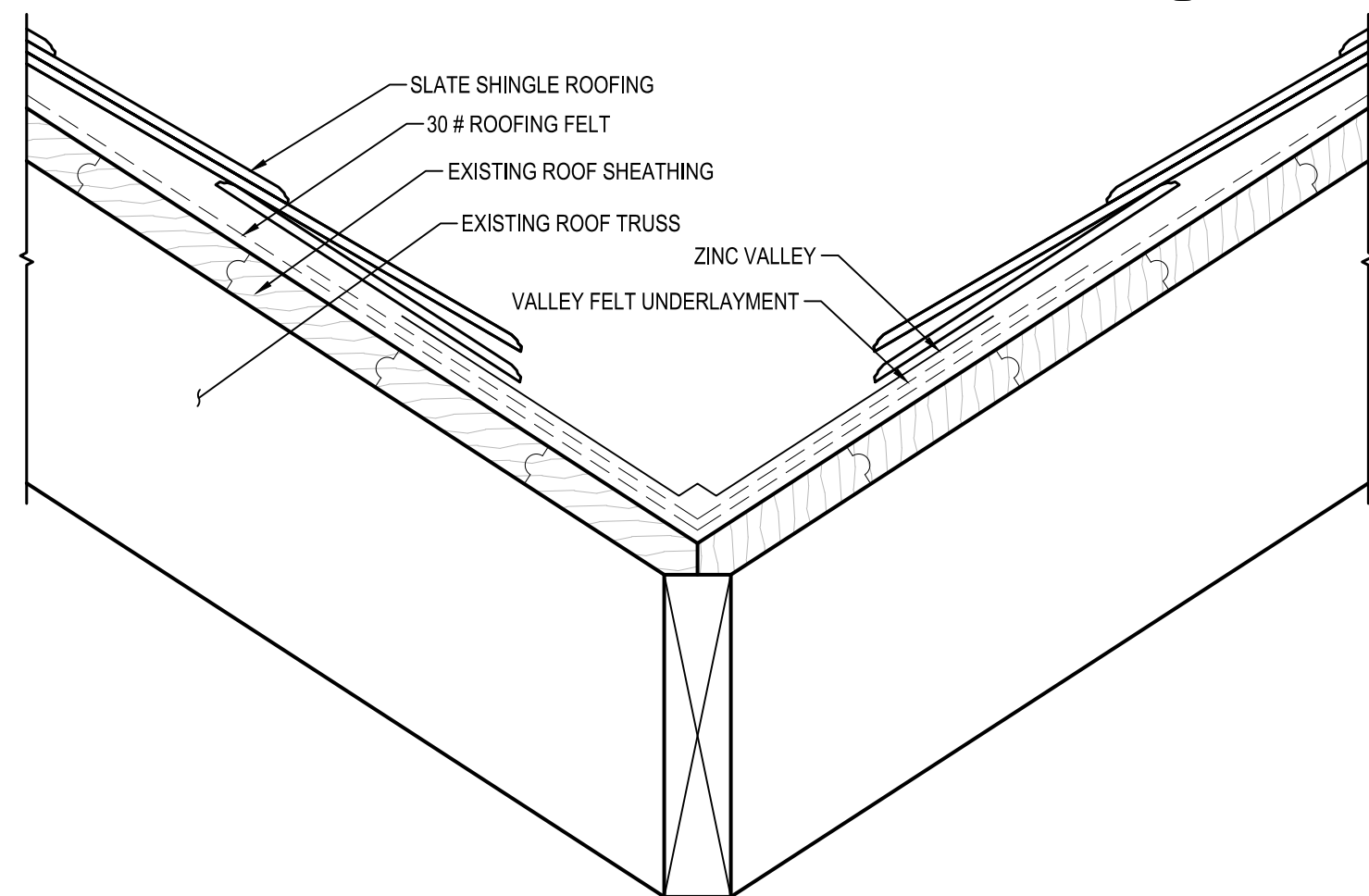
KEYED ROOF PLAN NOTES

- 1 REMOVE AND DISPOSE EXISTING SLATE SHINGLE ROOFING AND UNDERLAYMENT DOWN TO BARE WOOD SHEATHING BOARDS. REMOVE ALL METAL FLASHING AND GUTTERS. CONSTRUCT NEW SLATE SHINGLE ROOFING WITH ZINC FLASHING, GUTTERS AND DOWNSPOUTS.
- 2 REMOVE EXISTING METAL AIR VENT. FABRICATE AND INSTALL A NEW (CUSTOM MADE) ZINC VENT THAT MATCHES THE EXISTING AIR VENT SHAPE, CONFIGURATION AND SIZE.
- 3 REMOVE EXISTING GUTTERS AND HANGERS. CONSTRUCT NEW ZINC GUTTERS AND HANGERS.
- 4 FURNISH AND INSTALL NEW ZINC RIDGE CAP ALONG FULL LENGTH OF ROOF.
- 5 FURNISH AND INSTALL NEW SNOW GUARDS ALONG FULL LENGTH OF ROOF.
- 6 REMOVE EXISTING STANDING SEAM METAL ROOFING AND ASPHALT SHINGLE ROOFING DOWN TO BARE WOOD SHEATHING. PATCH AND REPAIR SHEATHING WHERE DIRECTED AT THE UNIT PRICE UNDER CONTRACT. REMOVE ALL FLASHING, GUTTERS, HANGERS AND DOWNSPOUTS. CONSTRUCT NEW ZINC METAL STANDING SEAM ROOFING SYSTEM WITH ALL NEW ZINC FLASHING, GUTTERS, HANGERS AND DOWNSPOUTS.
- 7 REMOVE EXISTING ROOF SHEATHING AND RAFTERS. CONSTRUCT NEW 1 1/2" x 3" RAFTERS @ 16" O.C. RAFTERS SHALL BE SHAPED TO MATCH EXISTING RAFTER TAIL PROFILE AT THE EAVES. INSTALL NEW 1" x 3" T&G BOARD ROOF SHEATHING.
- 8 REMOVE EXISTING CHIMNEY FLASHING AND COUNTERFLASHING. RAKE MORTAR JOINTS CLEAN AND INSTALL NEW ZINC STEP FLASHING AND COUNTERFLASHING (ALL FOUR SIDES OF CHIMNEY). RAKE, REPOINT AND REBUILD CHIMNEY SECTION AT CORBEL AND ABOVE.



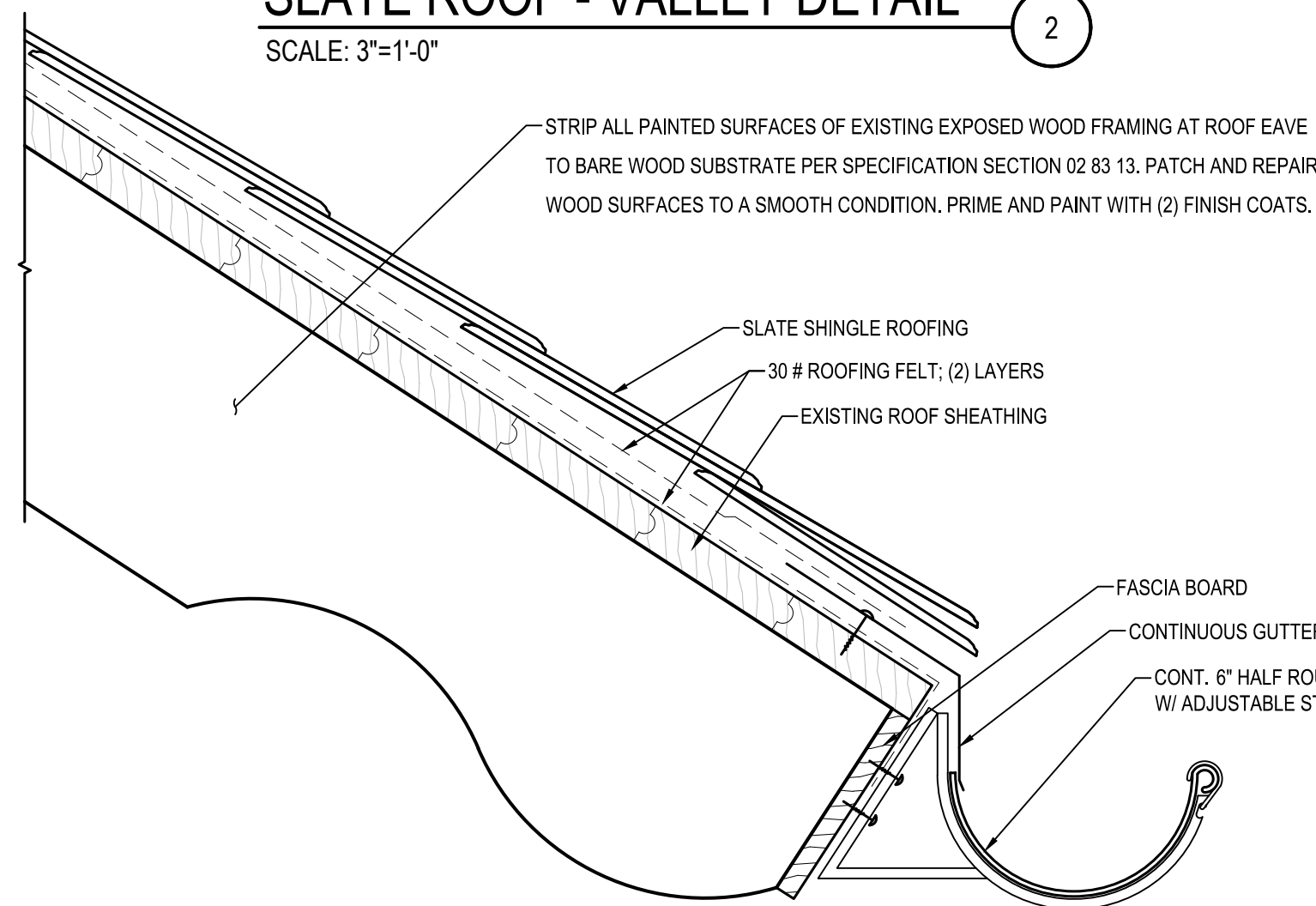
SLATE ROOF - RIDGE CAP DETAIL

SCALE: 3"=1'-0"



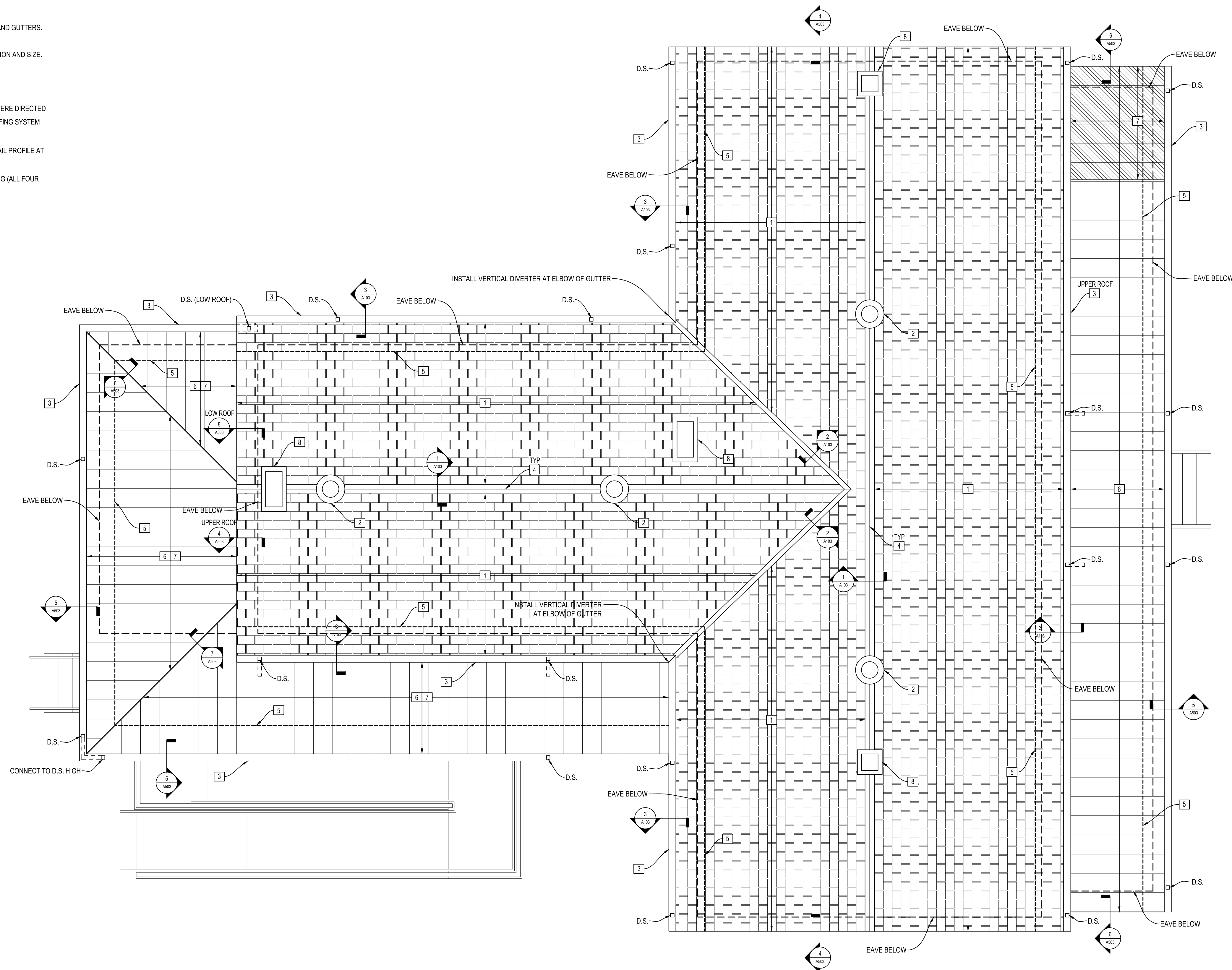
SLATE ROOF - VALLEY DETAIL

SCALE: 3"=1'-0"



SLATE ROOF - EAVE EDGE DETAIL

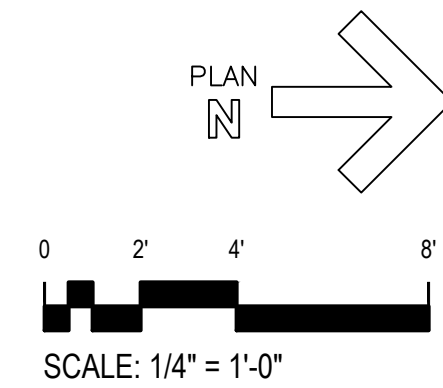
SCALE: 3"=1'-0"



ROOF PLAN

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

LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.



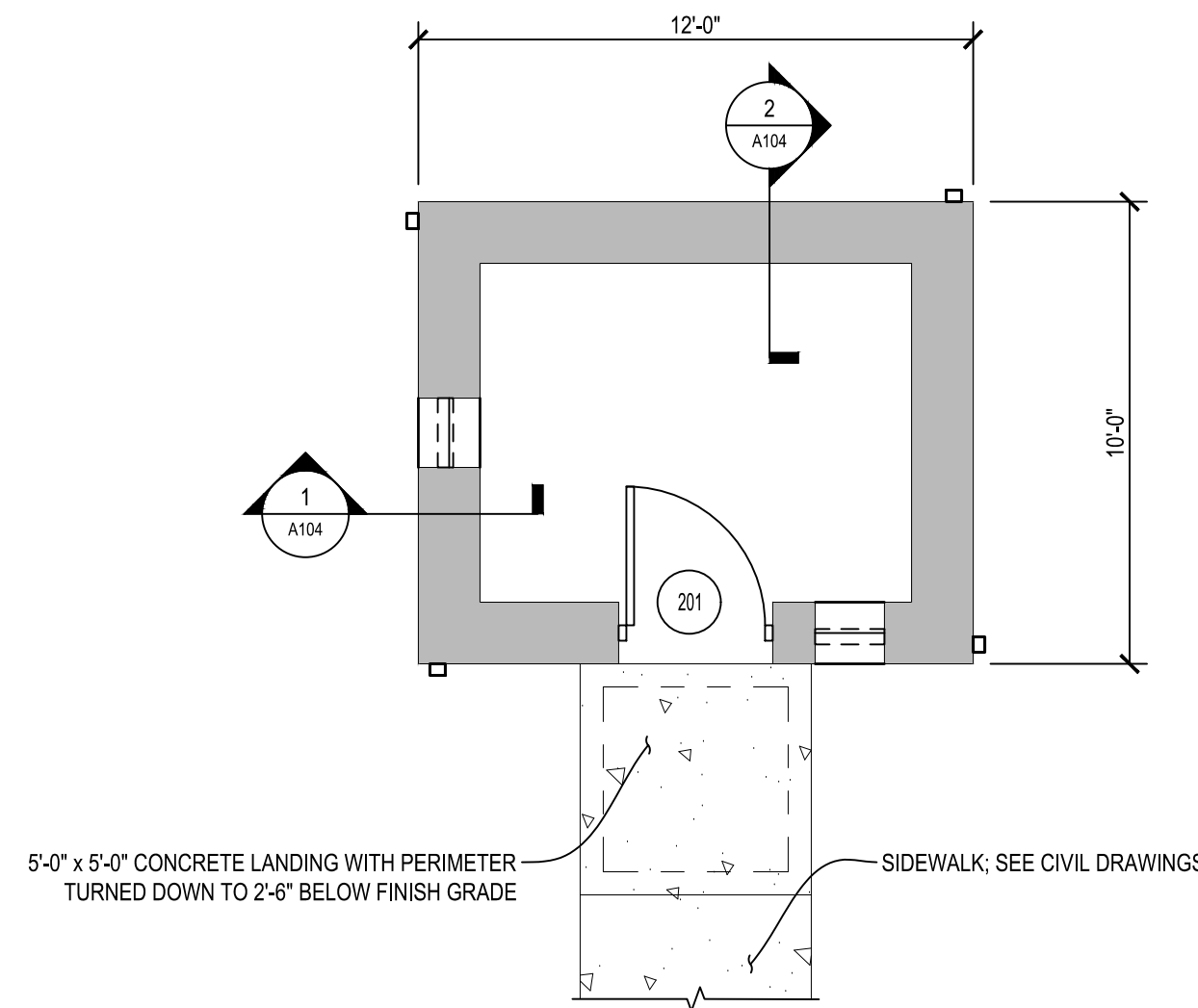
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 Baltimore, Maryland 21227-1044
 Telephone Number: 410-234-8444

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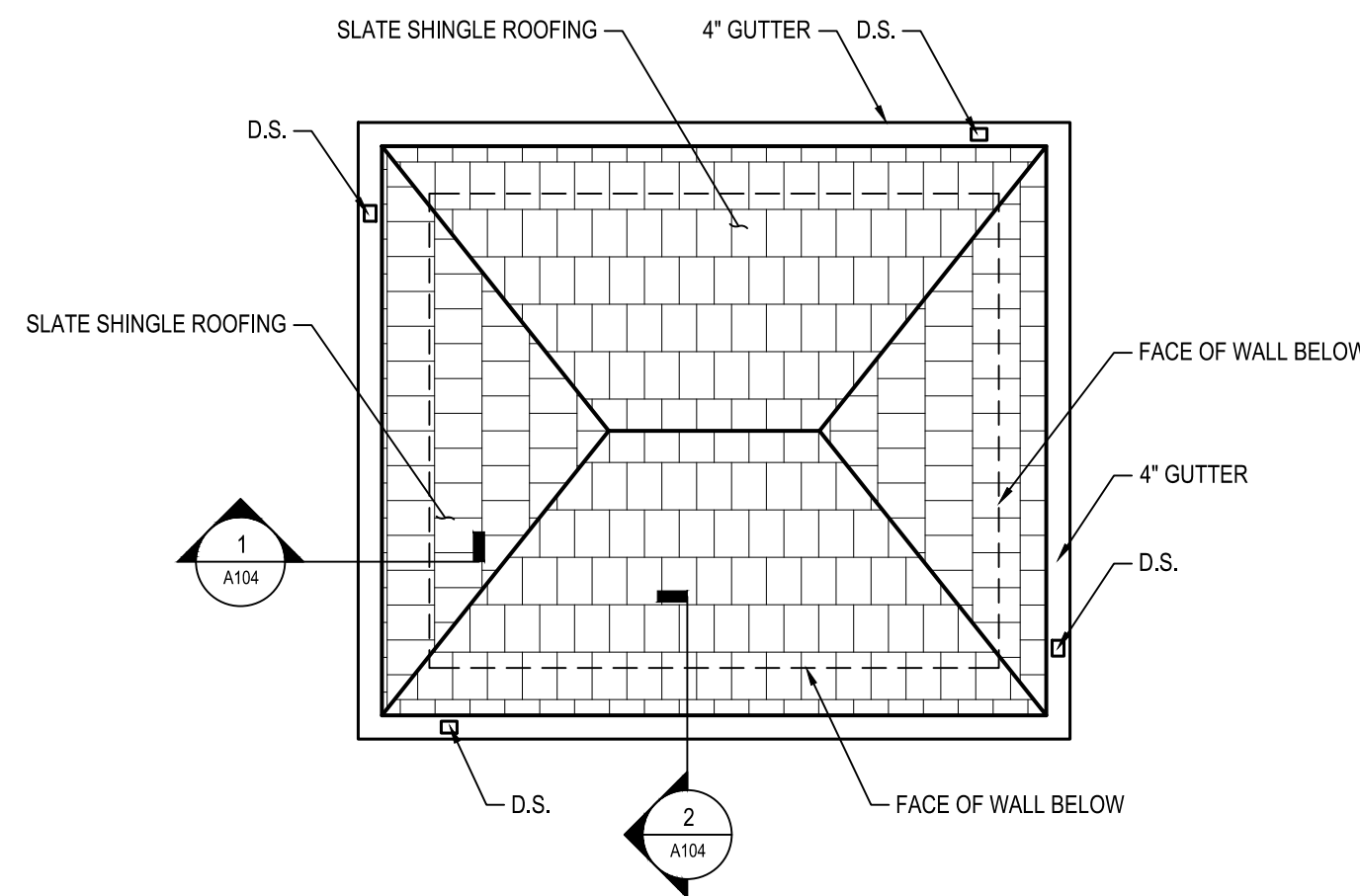
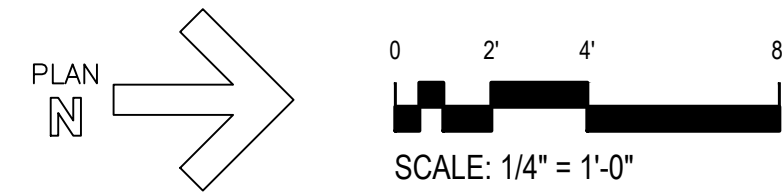
NO.	DESCRIPTION	BY	DATE
△			

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

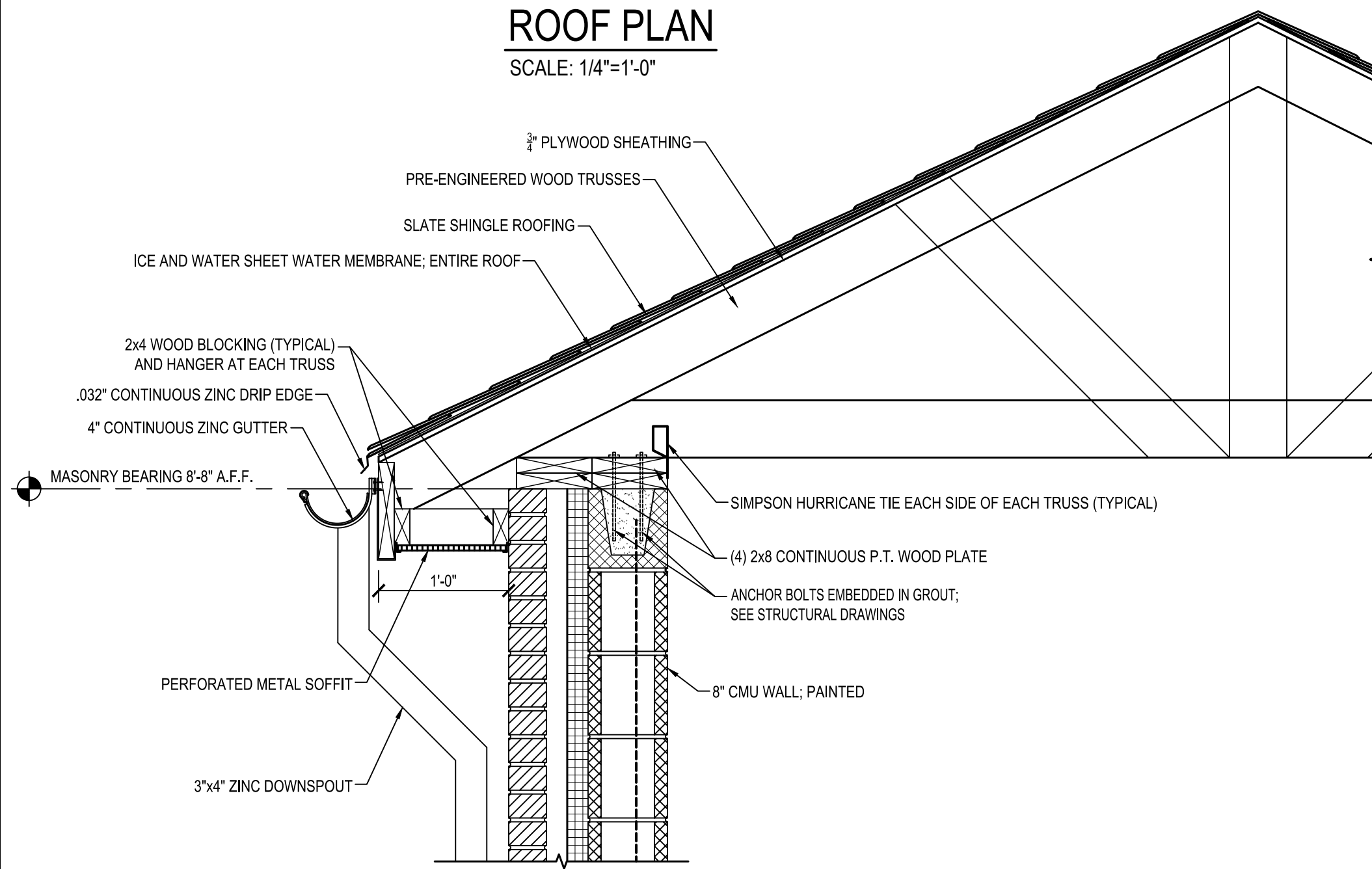
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS
 DATE: 9-25-2023
 SCALE: AS NOTED
 DRAWN BY: JL
 CHECKED BY: JB
 SHEET NO. 29 OF 65
 PROJECT NO. P535900
 CONTRACT NO. P535908
FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
 9500 FORT SMALLWOOD ROAD
 PASADENA, MD 21122
VISITOR CENTER
ROOF PLAN
A103



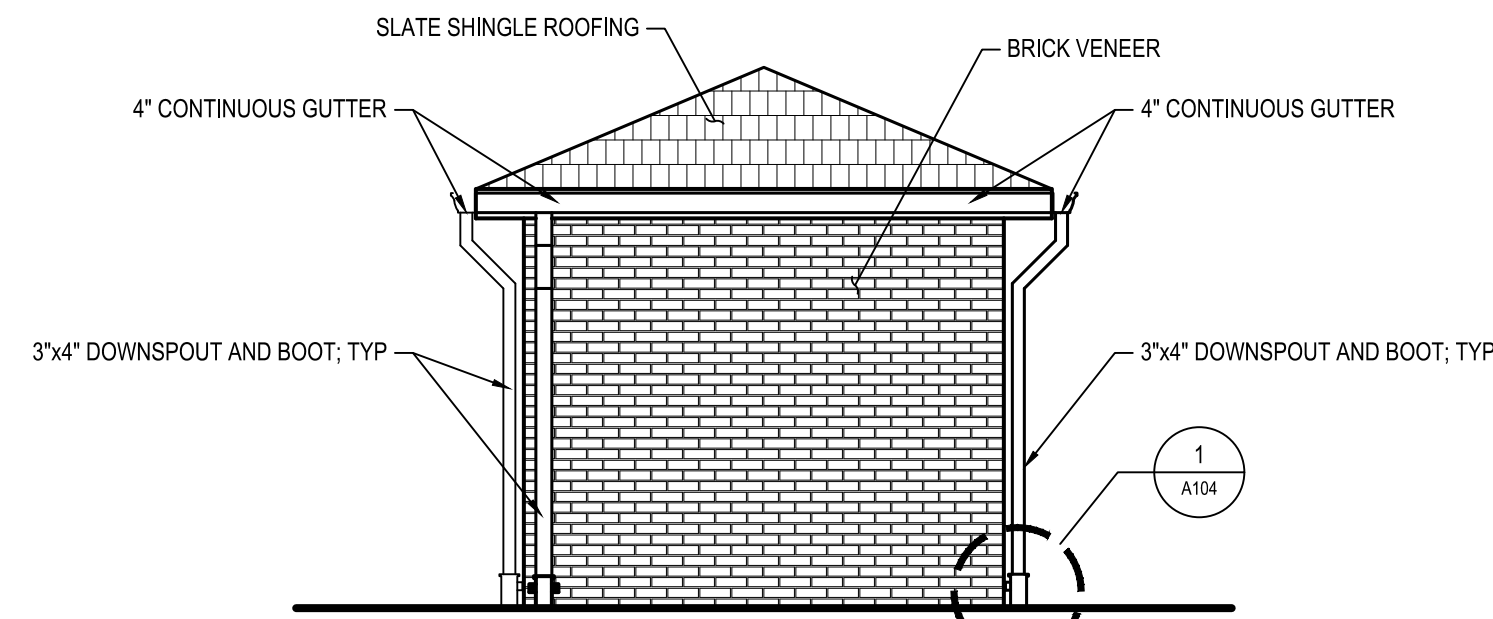
FLOOR PLAN
SCALE: 1/4"=1'-0"



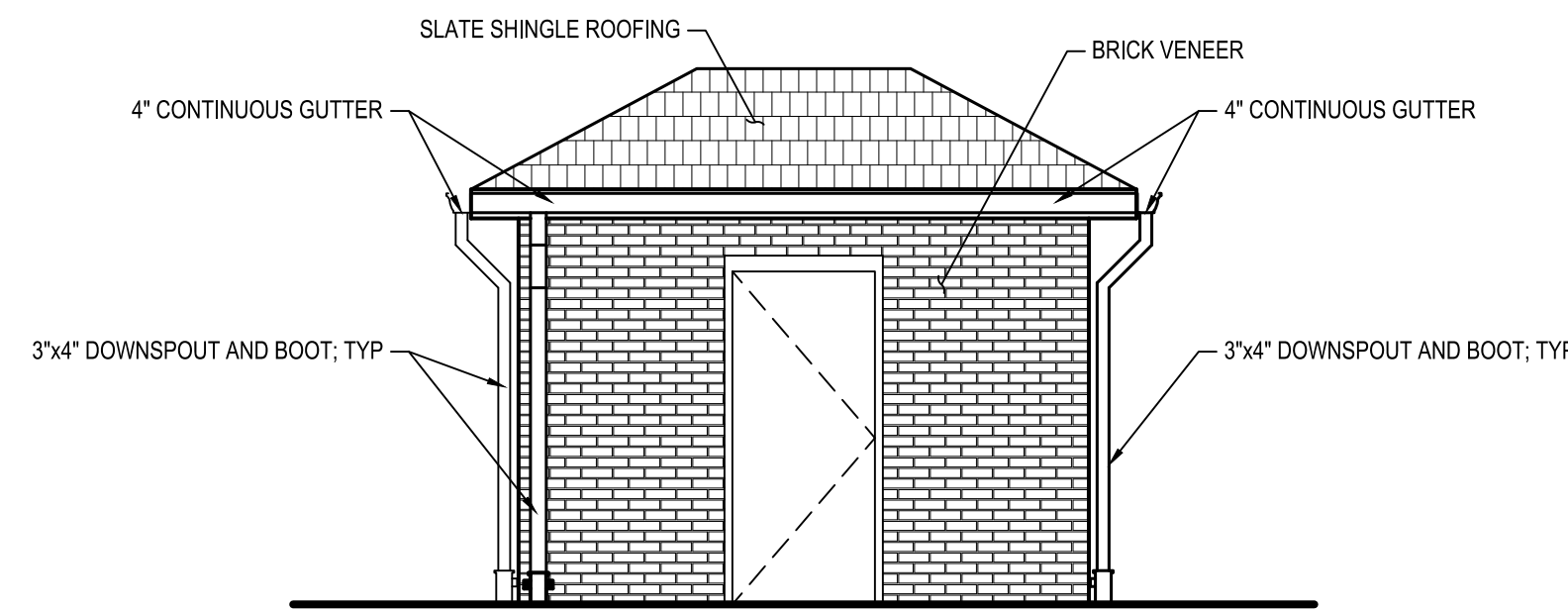
ROOF PLAN
SCALE: 1/4"=1'-0"



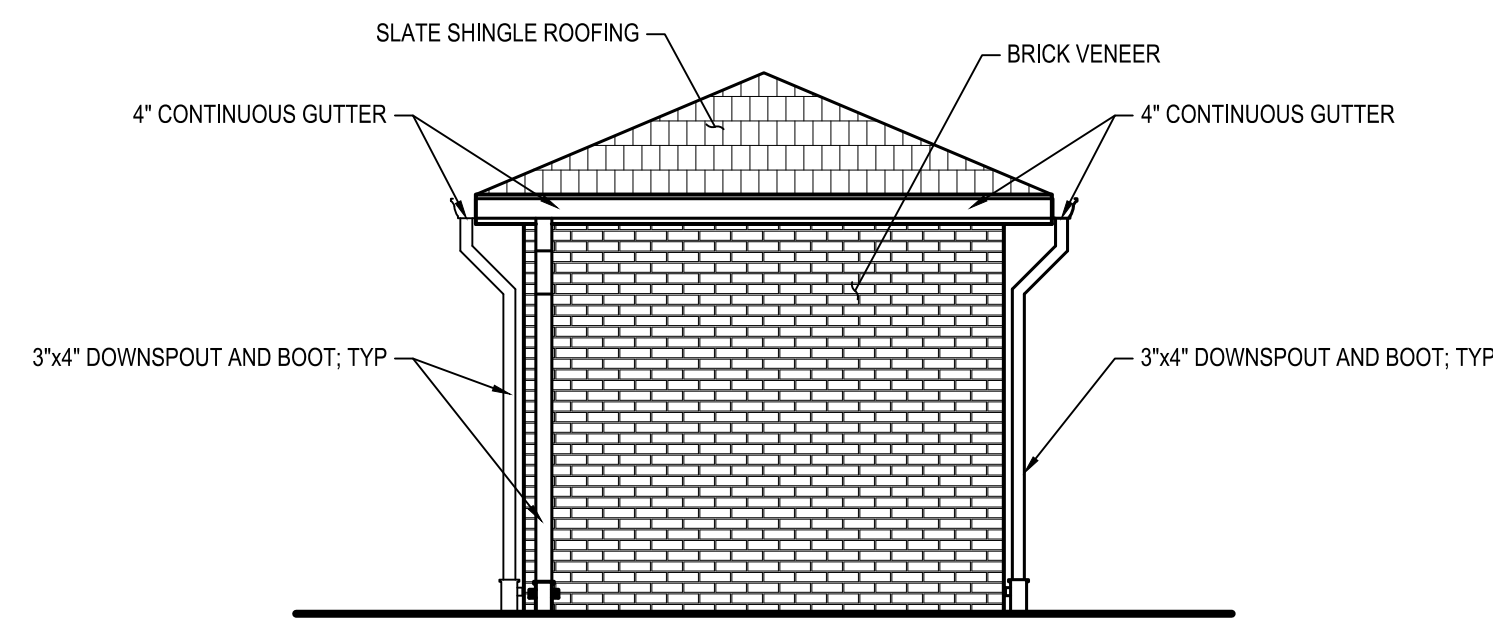
SOFFIT DETAIL
SCALE: 1"=1'-0"



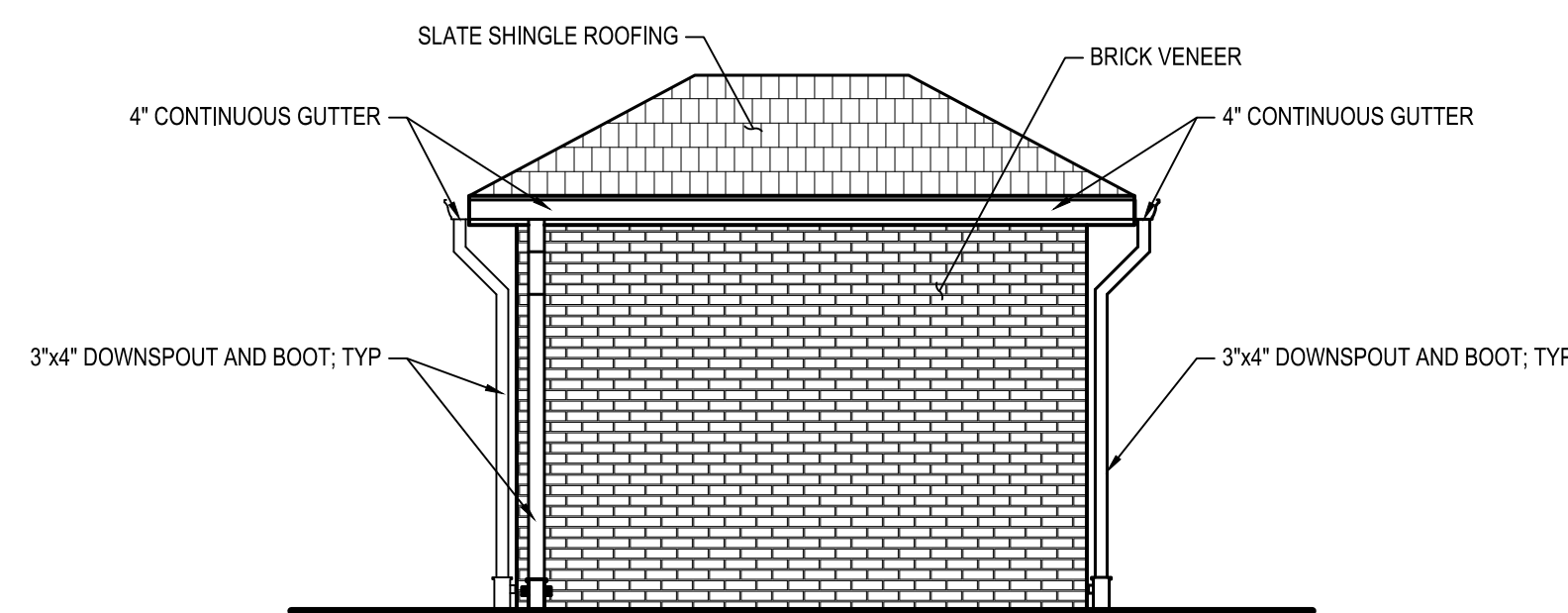
NORTH ELEVATION
SCALE: 1/4"=1'-0"



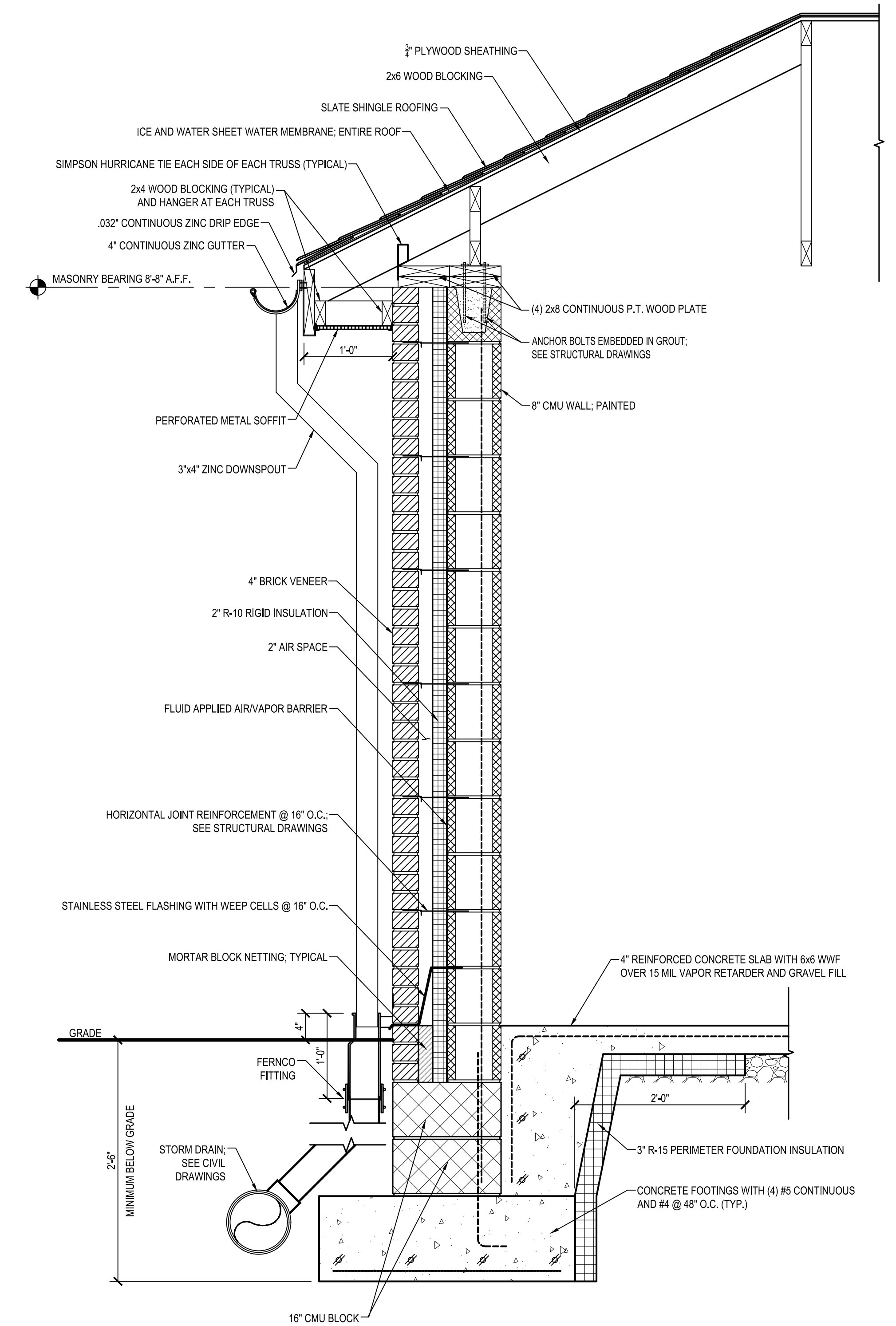
EAST ELEVATION
SCALE: 1/4"=1'-0"



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



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



WATER TREATMENT WALL SECTION
SCALE: 1"=1'-0"

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(C) GANT BRUNNETT ARCHITECTS
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NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS NOTED
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: JL
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: JB
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	SHEET NO. 30 OF 65
		PROJECT NO. P535900
		CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

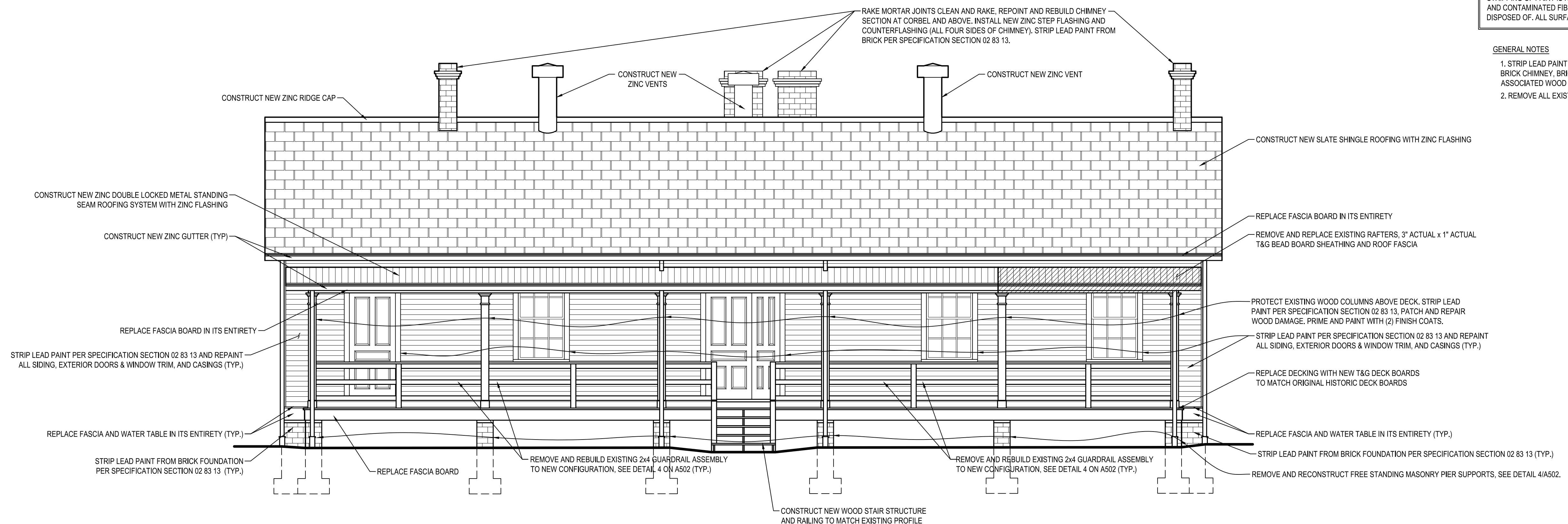
WATER TREATMENT
PLANS, ELEVATIONS & WALL SECTION

A104

LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.

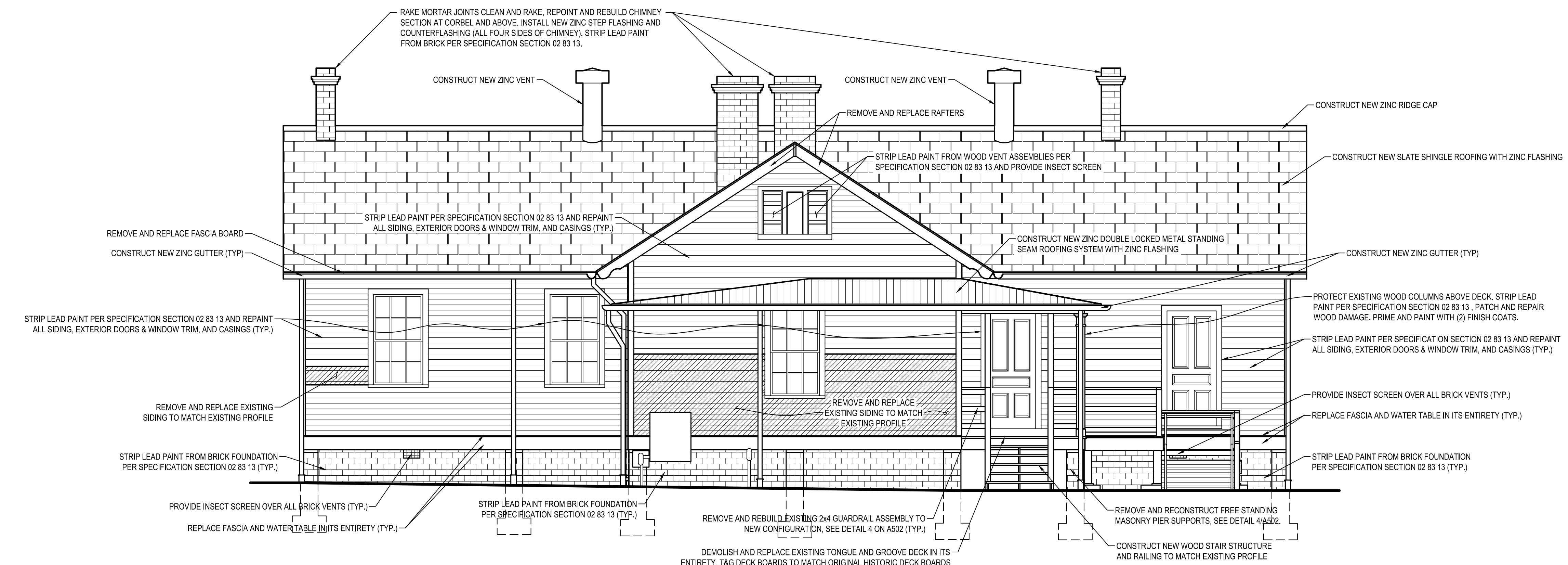
GENERAL NOTES

1. STRIP LEAD PAINT PER SPECIFICATION SECTION 02 83 13 FROM EXTERIOR BRICK CHIMNEY, BRICK FOUNDATIONS, SIDING, TRIM, RAFTERS, AND ALL ASSOCIATED WOOD DOWN TO BARE WOOD AND ADD (2) COATS OF PAINT.
2. REMOVE ALL EXISTING GUTTERS, DOWNSPOUTS AND HANGERS.



NORTH ELEVATION

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



SOUTH ELEVATION

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

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NO.	DESCRIPTION	BY	DATE
△			

**ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS**

DATE: 9-25-2023

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS NOTED
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: JL
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: JB
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	SHEET NO. 31 OF 65
		PROJECT NO. P535900
		CONTRACT NO. P535908

**FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER**
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

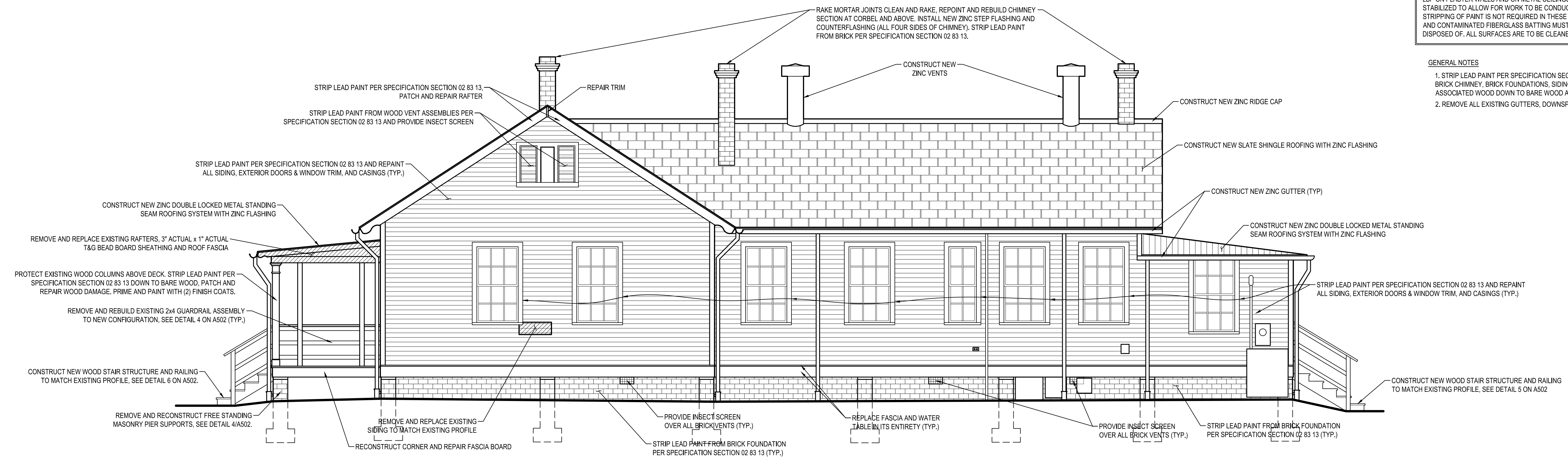
**VISITOR CENTER
EXTERIOR ELEVATIONS**

A201

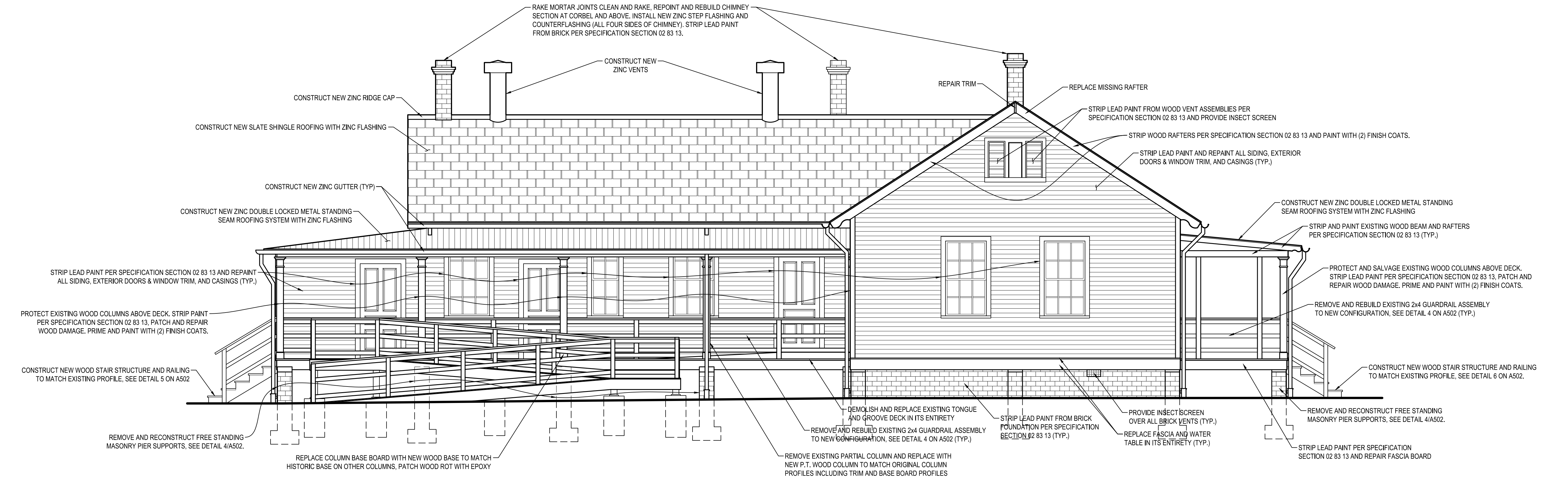
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Baltimore, Maryland 21227-1044
Telephone Number: 410-234-8444

LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.

- GENERAL NOTES**
1. STRIP LEAD PAINT PER SPECIFICATION SECTION 02 83 13 FROM EXTERIOR BRICK CHIMNEY, BRICK FOUNDATIONS, SIDING, TRIM, RAFTERS, AND ALL ASSOCIATED WOOD DOWN TO BARE WOOD AND ADD (2) COATS OF PAINT.
 2. REMOVE ALL EXISTING GUTTERS, DOWNSPOUTS AND HANGERS.



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



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

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NO.	DESCRIPTION	BY	DATE

APPROVED	DATE	APPROVED	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

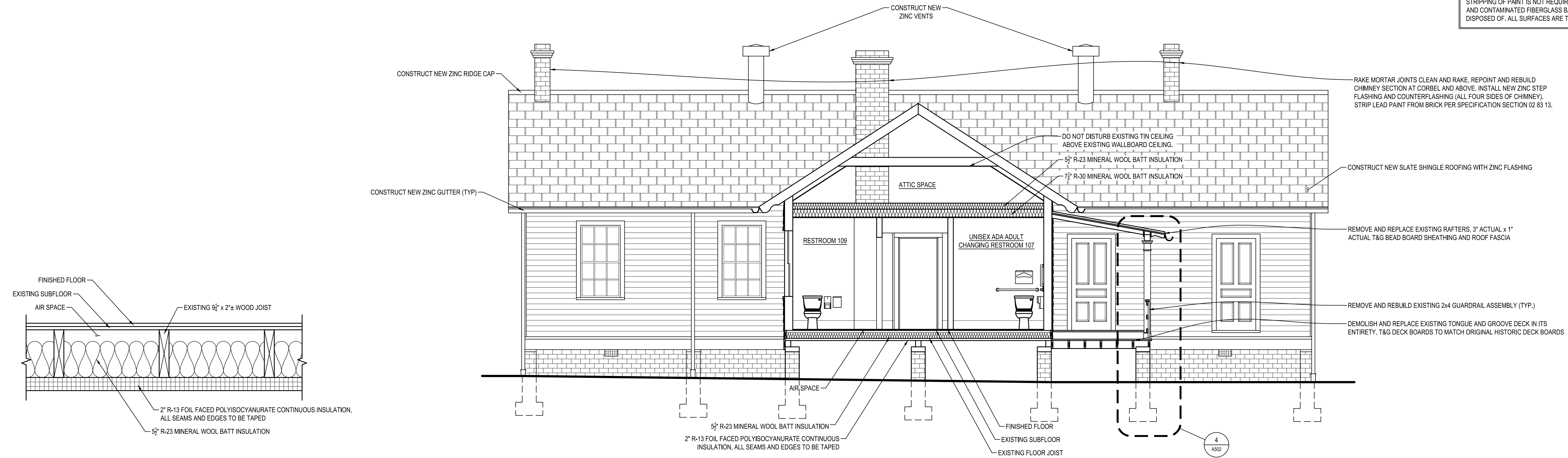
FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

VISITOR CENTER
EXTERIOR ELEVATIONS

A202

SCALE: AS NOTED
DRAWN BY: JL
CHECKED BY: JB
SHEET NO. 32 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.



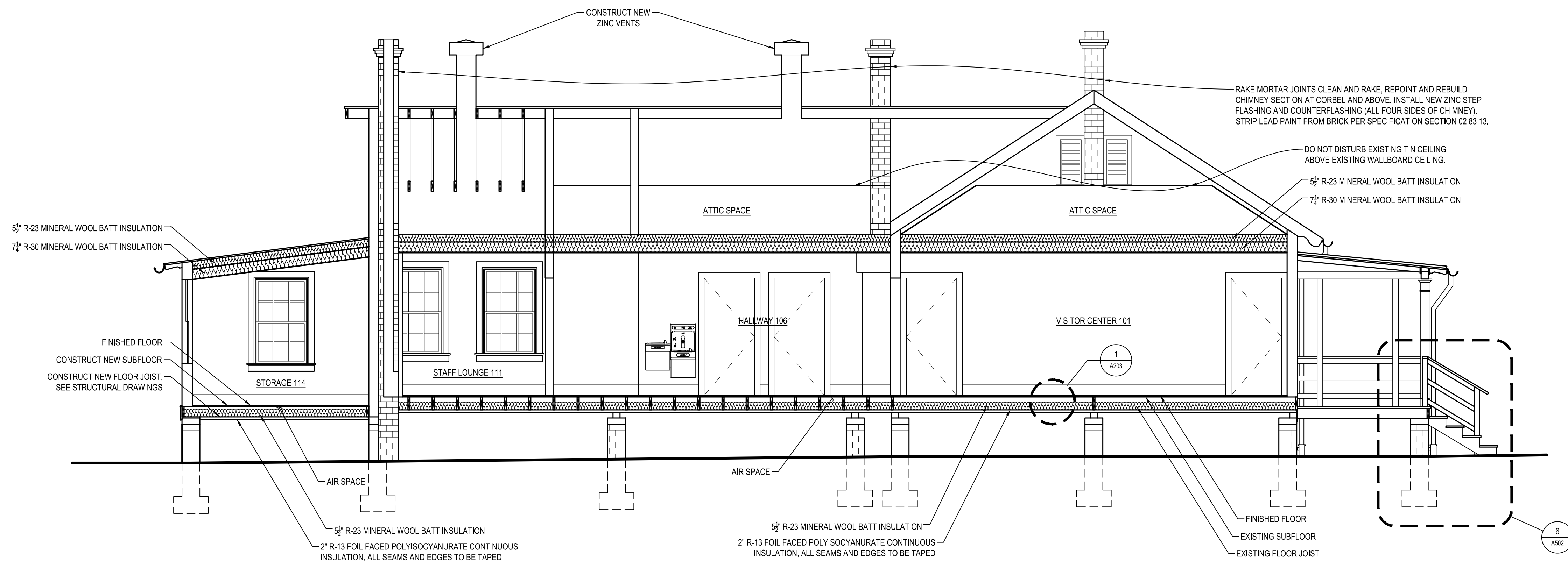
CRAWL SPACE INSULATION DETAIL

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

1

BUILDING SECTION 'A'

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



BUILDING SECTION 'B'

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

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Telephone Number: 410-234-8444

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NO.	DESCRIPTION	BY	DATE
△			

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

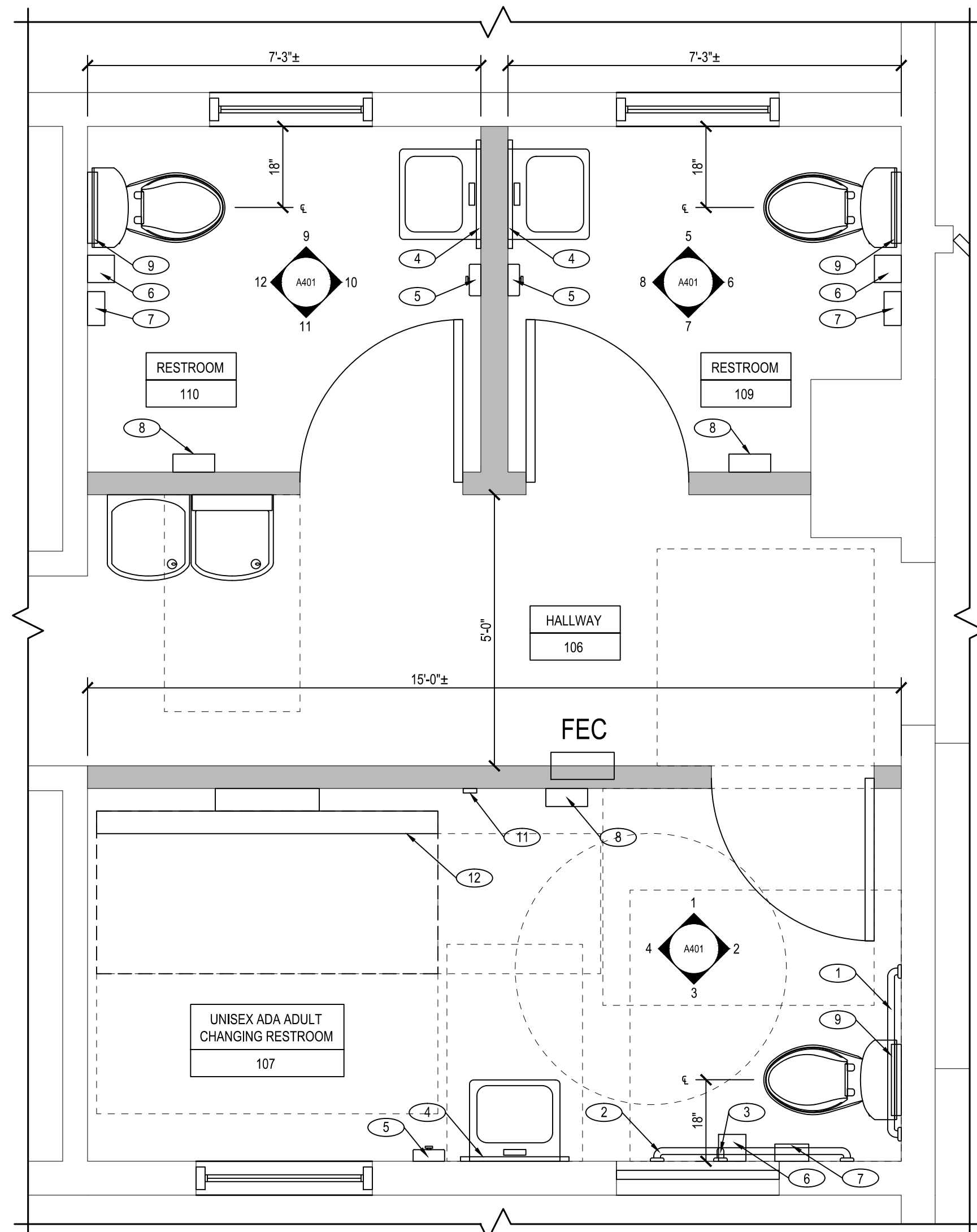
SCALE: AS NOTED
DRAWN BY: JL
CHECKED BY: JB
SHEET NO. 33 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

VISITOR CENTER
BUILDING SECTIONS

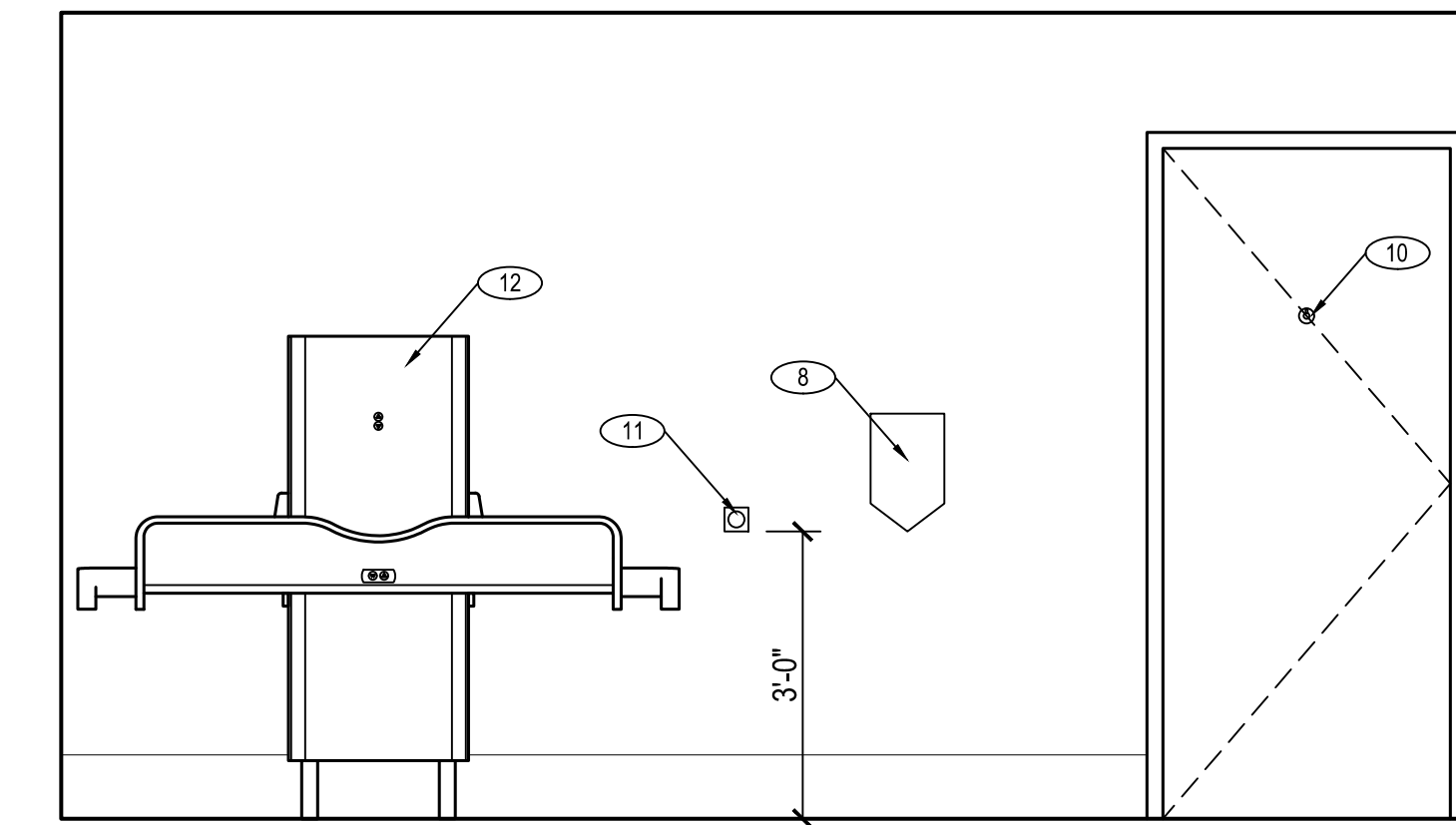
A203

LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.

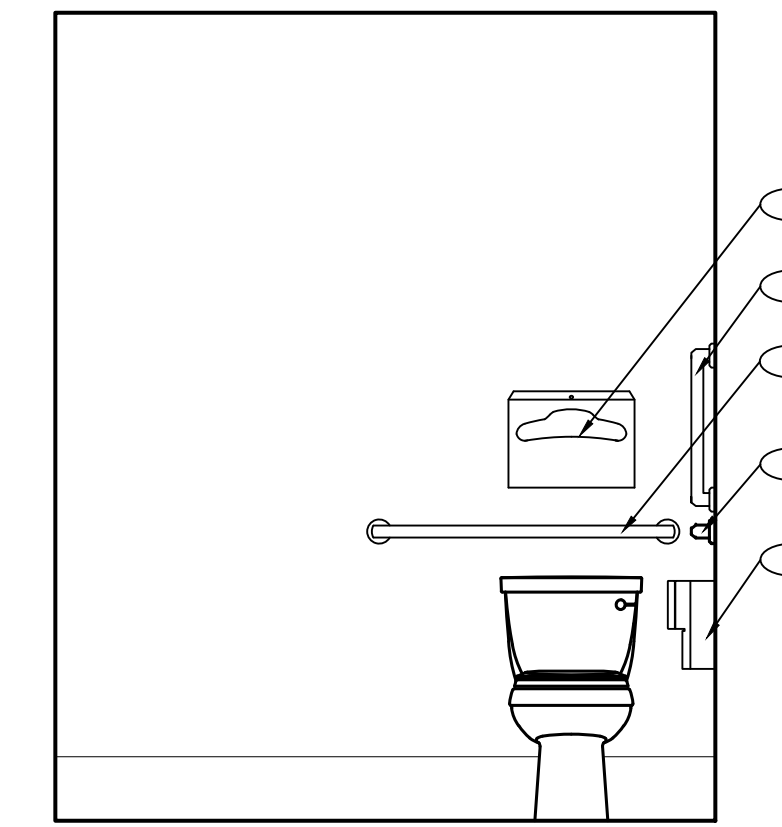


LARGE SCALE RESTROOM PLAN
SCALE: 1/2"=1'-0"

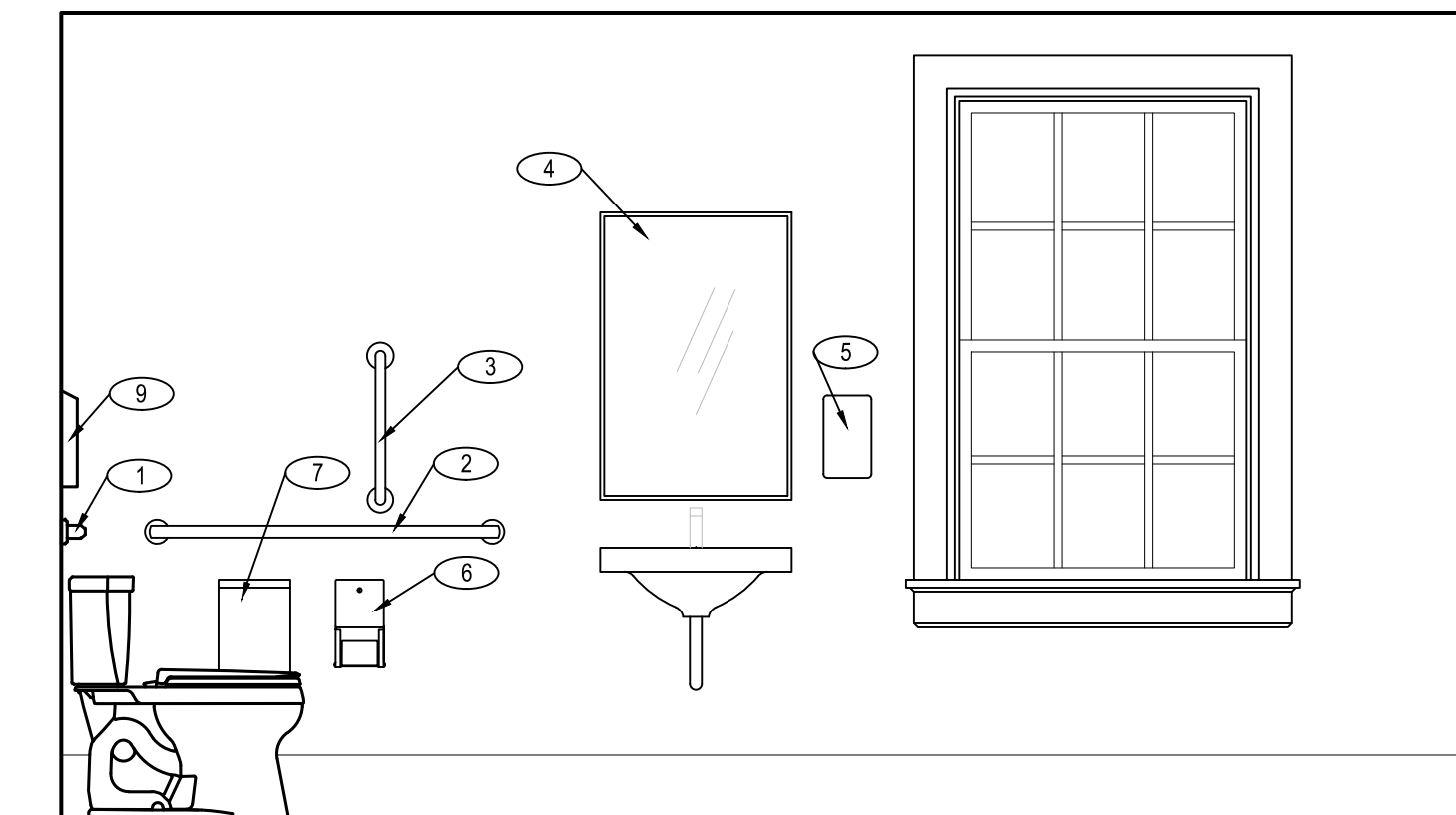
- KEYED NOTES**
- 1 36" STAINLESS STEEL GRAB BAR
 - 2 42" STAINLESS STEEL GRAB BAR
 - 3 18" STAINLESS STEEL VERTICAL GRAB BAR
 - 4 24" x 36" MIRROR
 - 5 SOAP DISPENSER
 - 6 TOILET PAPER DISPENSER
 - 7 SANITARY NAPKIN DISPOSAL
 - 8 HAND DRYER
 - 9 TOILET SEAT COVER DISPENSER
 - 10 COAT HOOK
 - 11 WALL MOUNTED EMERGENCY STOP
 - 12 ADJUSTABLE HEIGHT ADULT CHANGING STATION



1

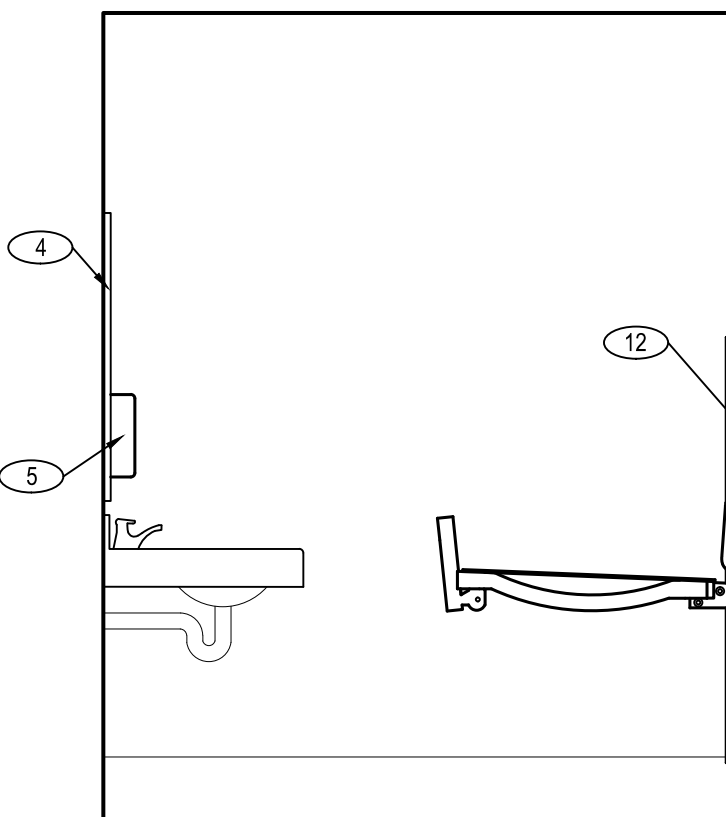


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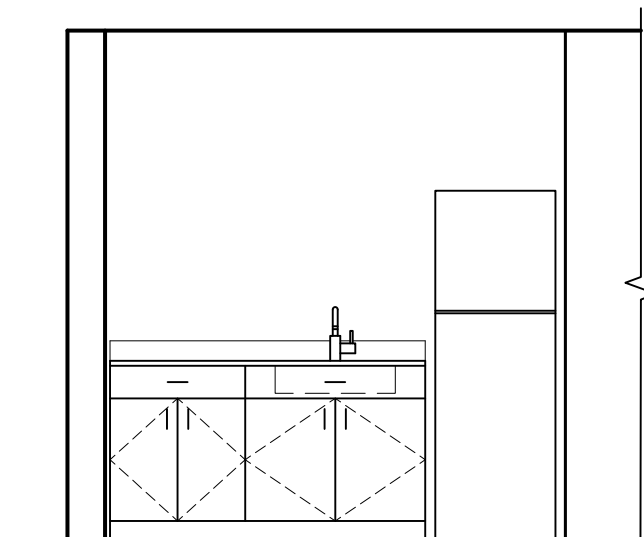


3

UNISEX ADA ADULT CHANGING RESTROOM 107
SCALE: 1/2"=1'-0"

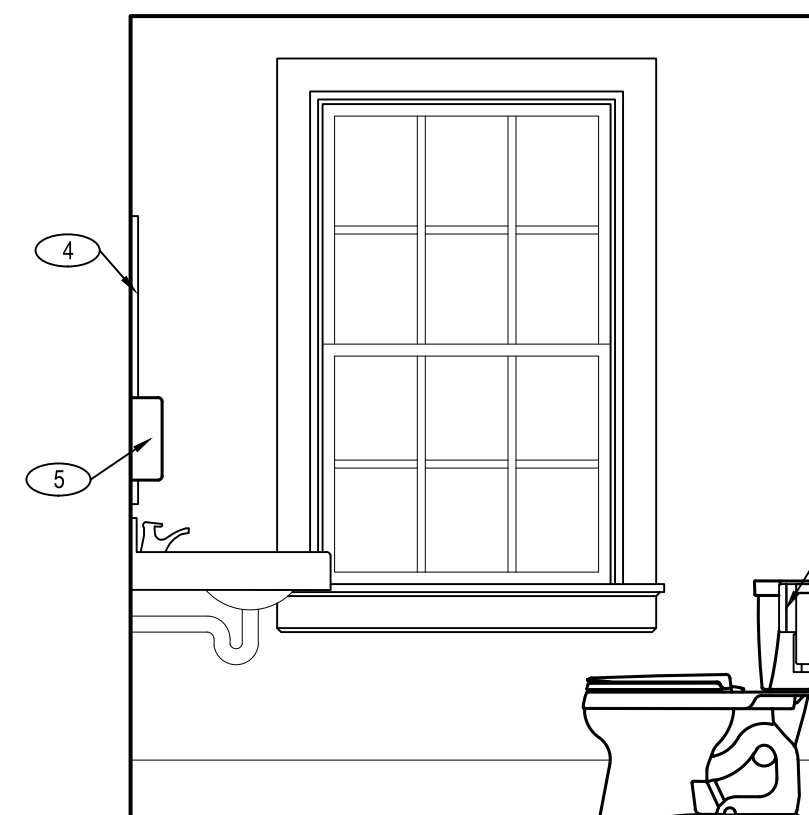


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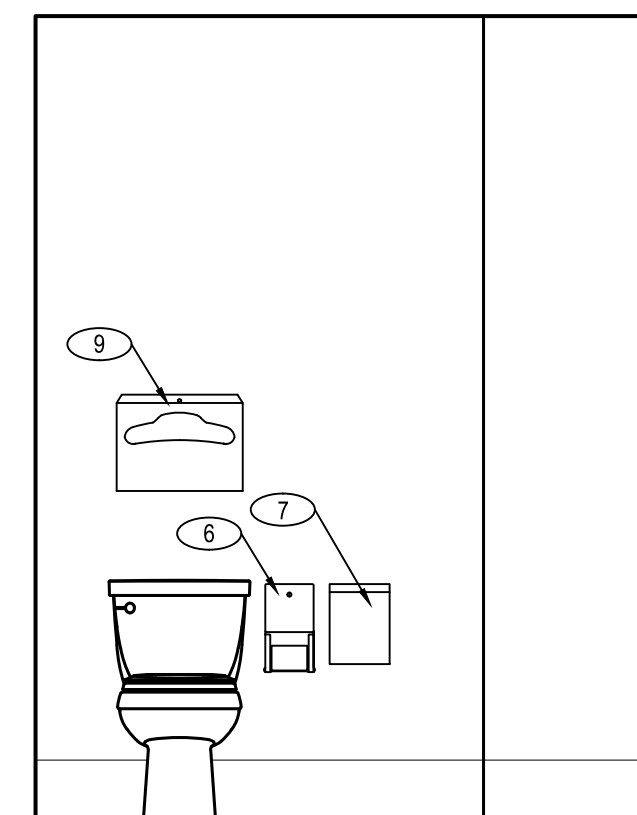


13

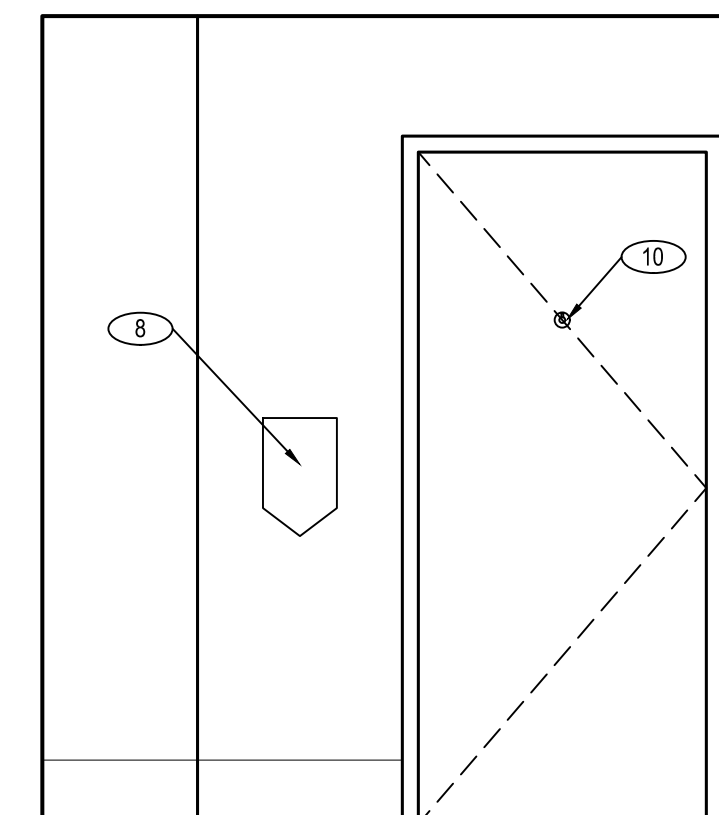
STAFF LOUNGE KITCHENETTE
SCALE: 1/2"=1'-0"



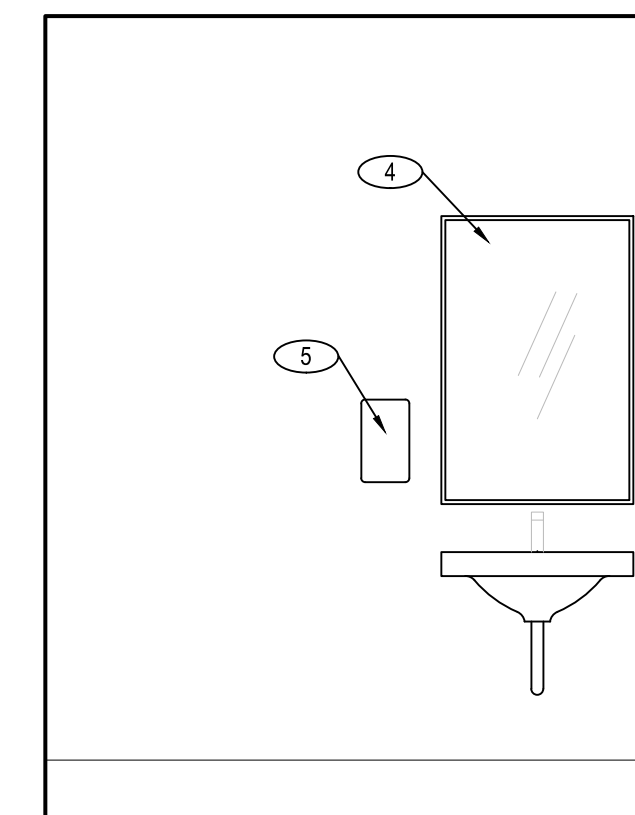
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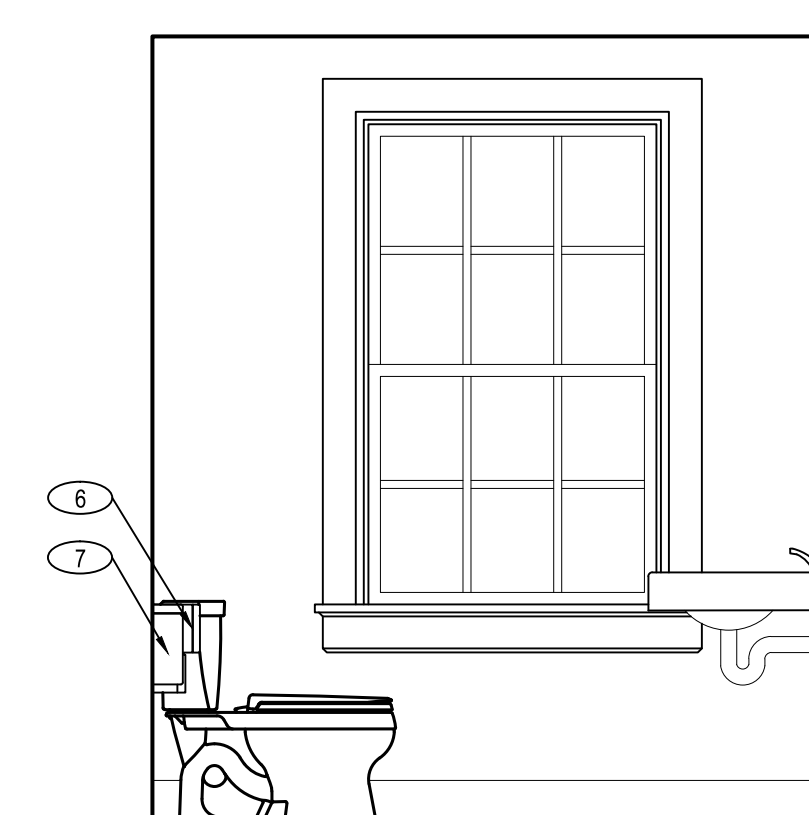
6



7

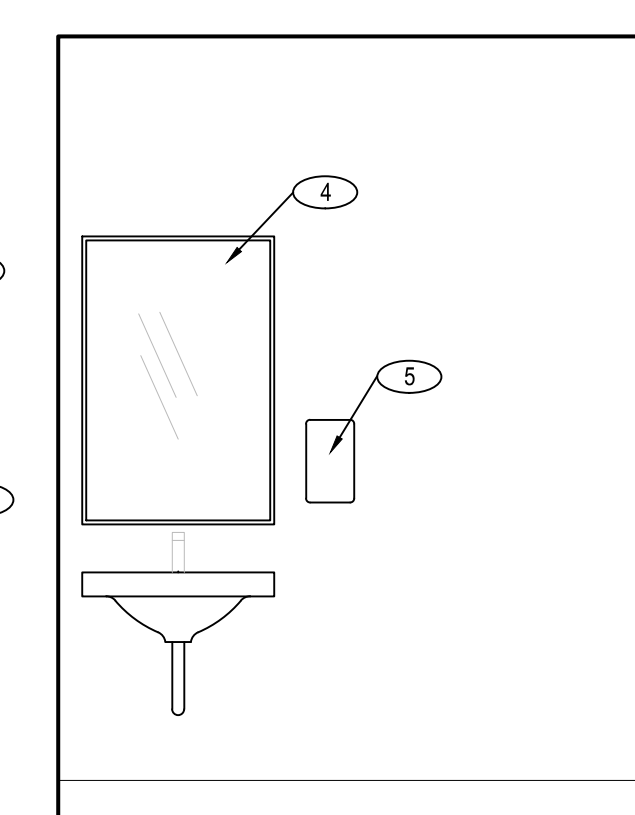


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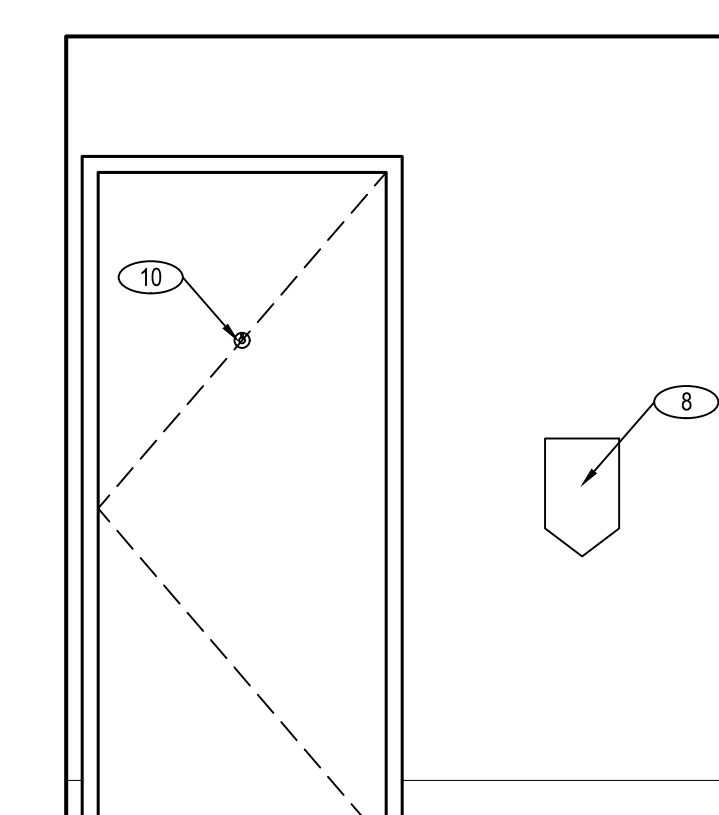


9

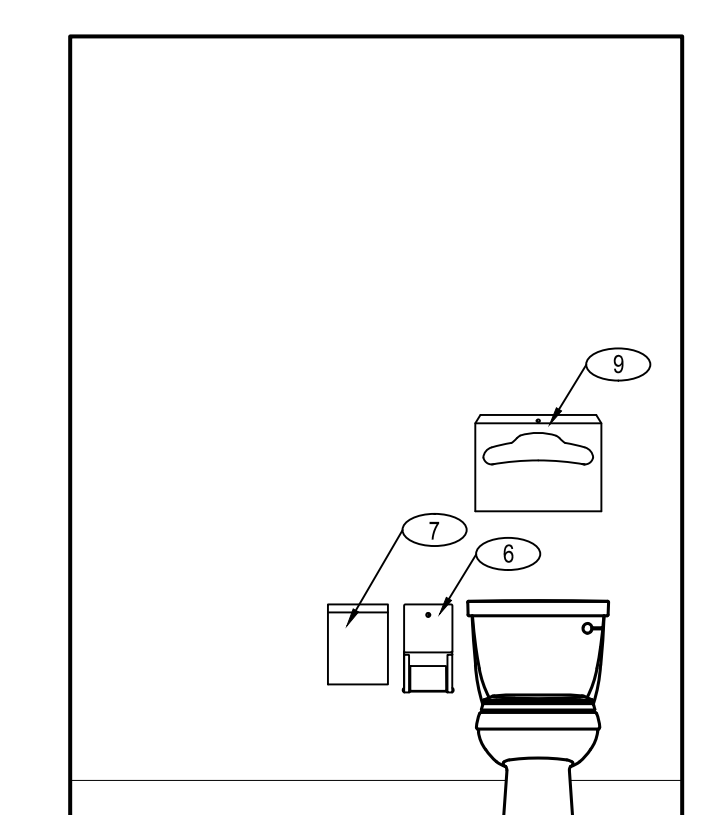
RESTROOM 110
SCALE: 1/2"=1'-0"



10



11



12

RESTROOM 109
SCALE: 1/2"=1'-0"

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Baltimore, Maryland 21227-1044
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(C) GANT BRUNETT ARCHITECTS
ALL REPRODUCTION IS PROHIBITED

NO.	DESCRIPTION	BY	DATE

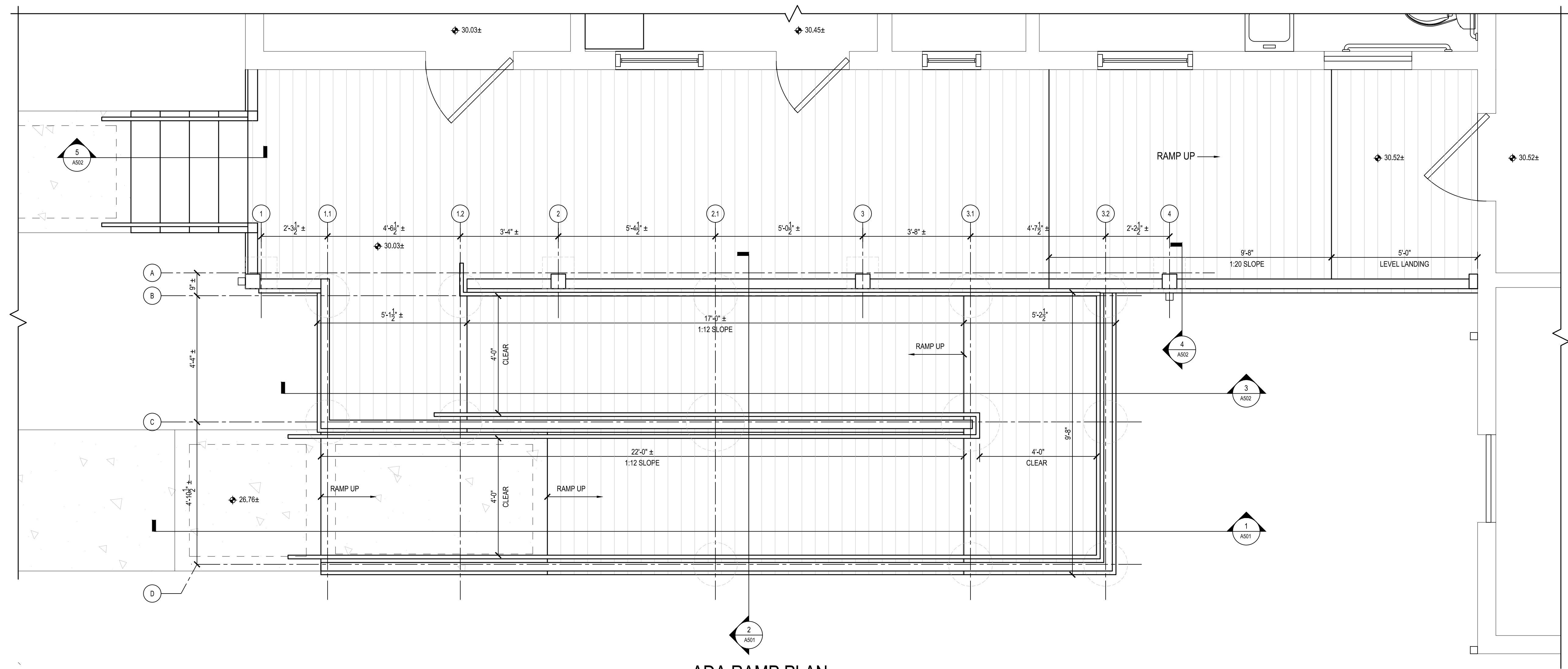
APPROVED	DATE	APPROVED	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS
DATE: 9-25-2023
SCALE: AS NOTED
DRAWN BY: JL
CHECKED BY: JB
SHEET NO. 34 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

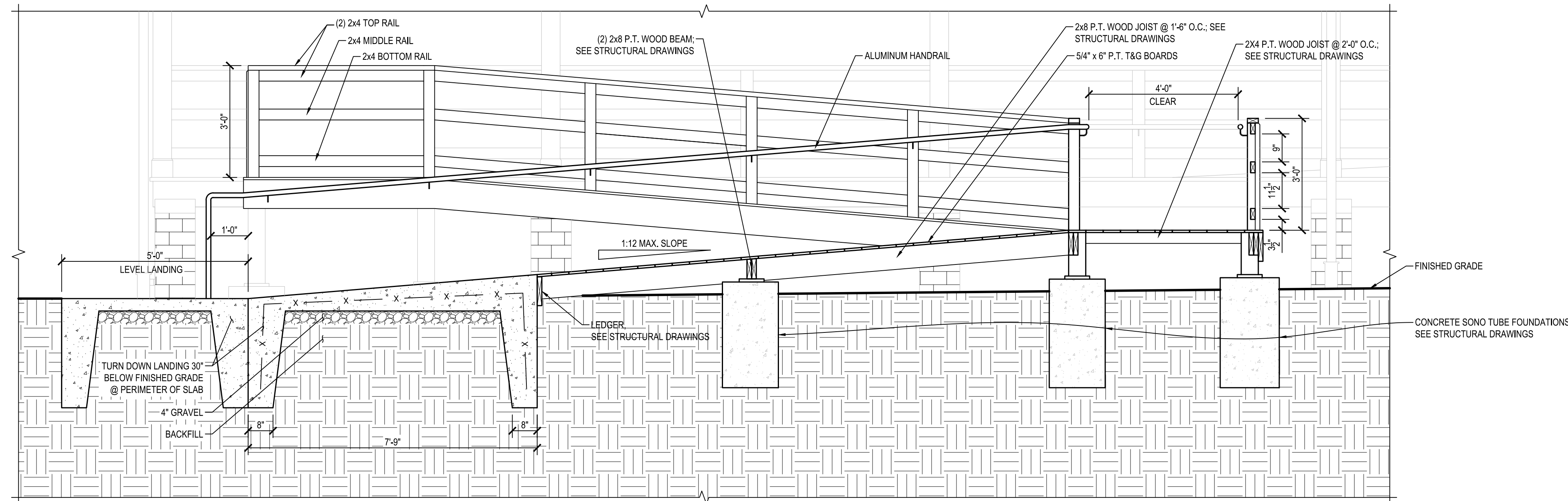
FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

VISITOR CENTER
INTERIOR ELEVATIONS

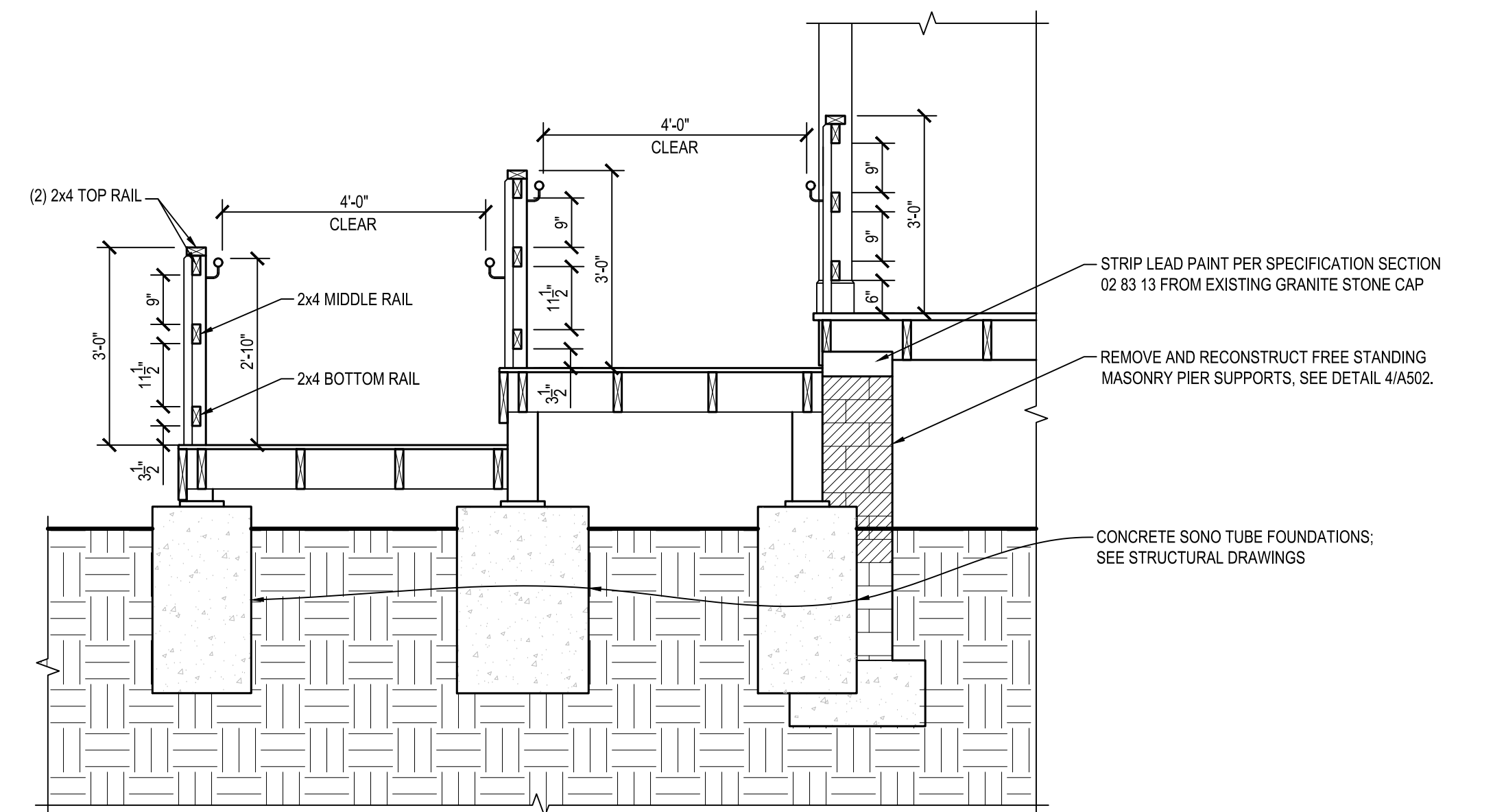
A401



ADA RAMP PLAN
SCALE: 1/2"=1'-0" 1



ADA RAMP SECTION
SCALE: 1/2"=1'-0" 1



ADA RAMP SECTION
SCALE: 1/2"=1'-0" 2

gba
gant-brunnett
ARCHITECTS
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227-1044
Telephone Number: 410-234-8444

PROFESSIONAL CERTIFICATION
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER C1386, EXPIRATION DATE 01/11/2025.

(C) GANT BRUNNETT ARCHITECTS
ALL REPRODUCTION IS PROHIBITED

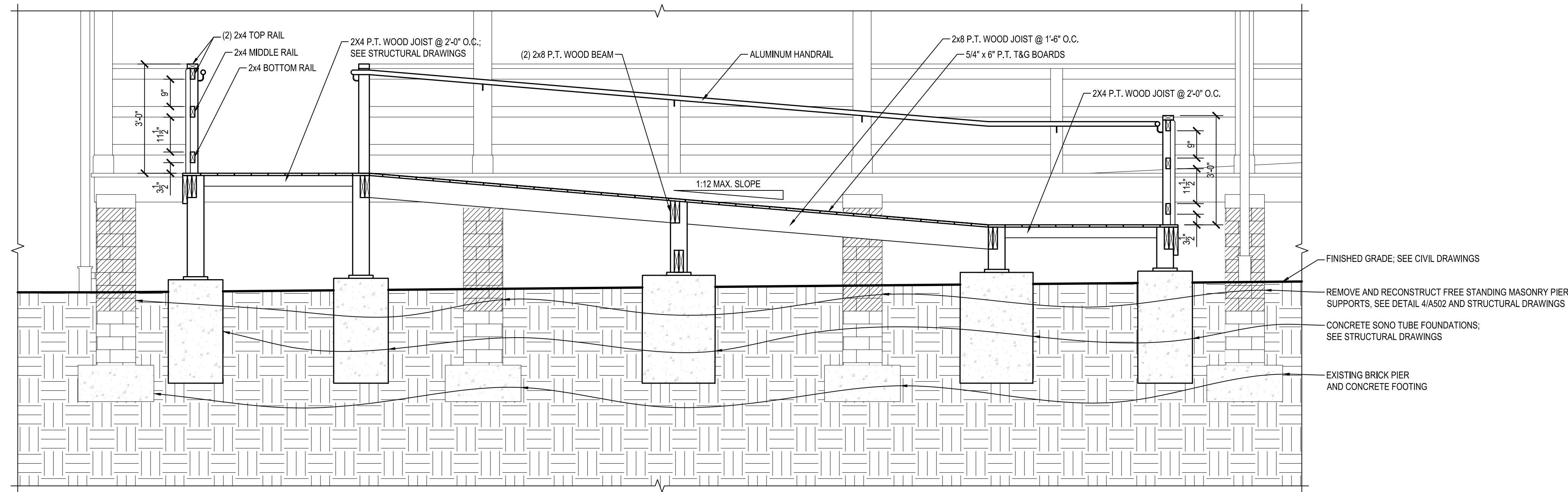
NO.	DESCRIPTION	BY	DATE
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APPROVED	DATE	APPROVED	DATE
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APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

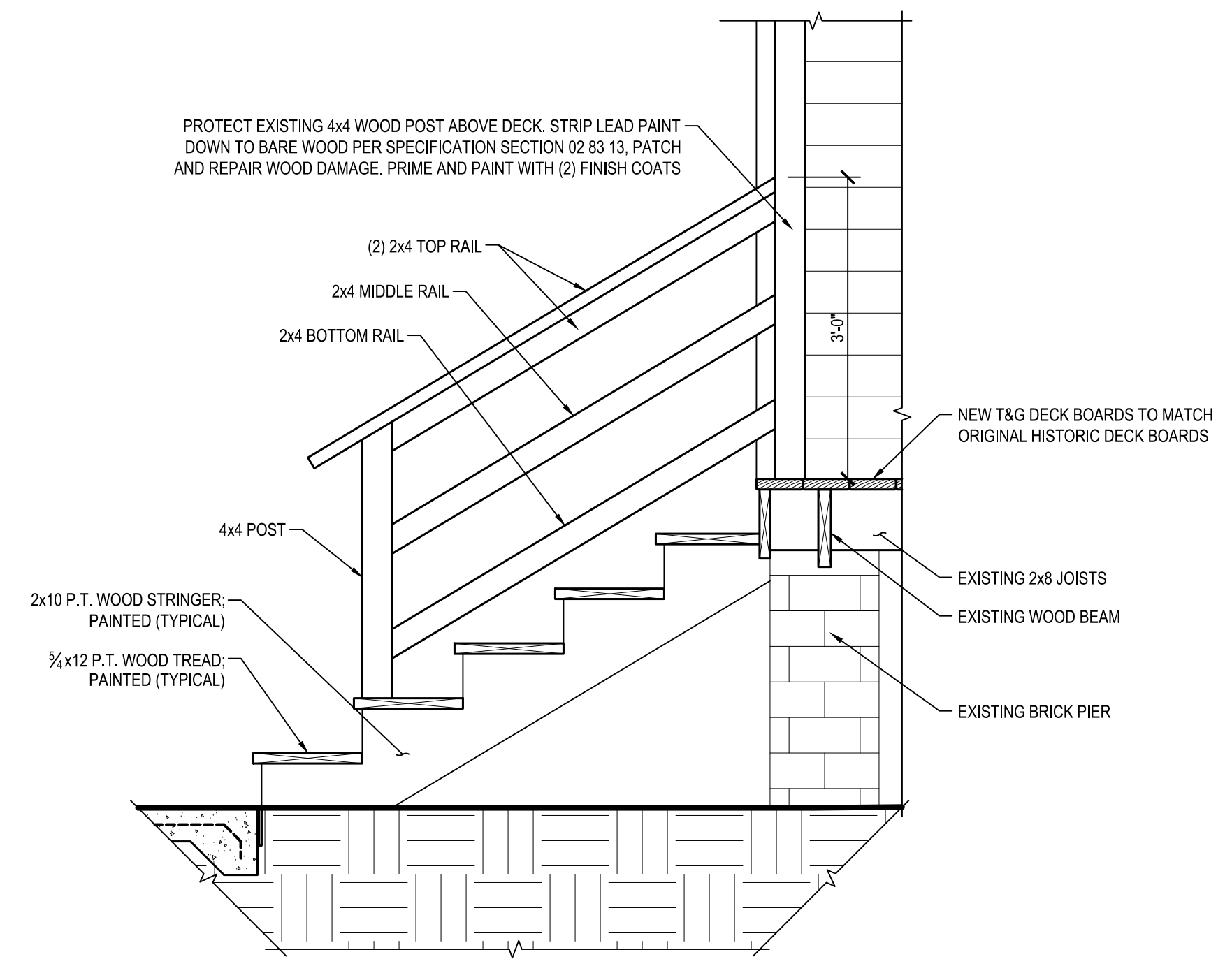
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS
DATE: 9-25-2023
SCALE: AS NOTED
DRAWN BY: JL
CHECKED BY: JB
SHEET NO. 35 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

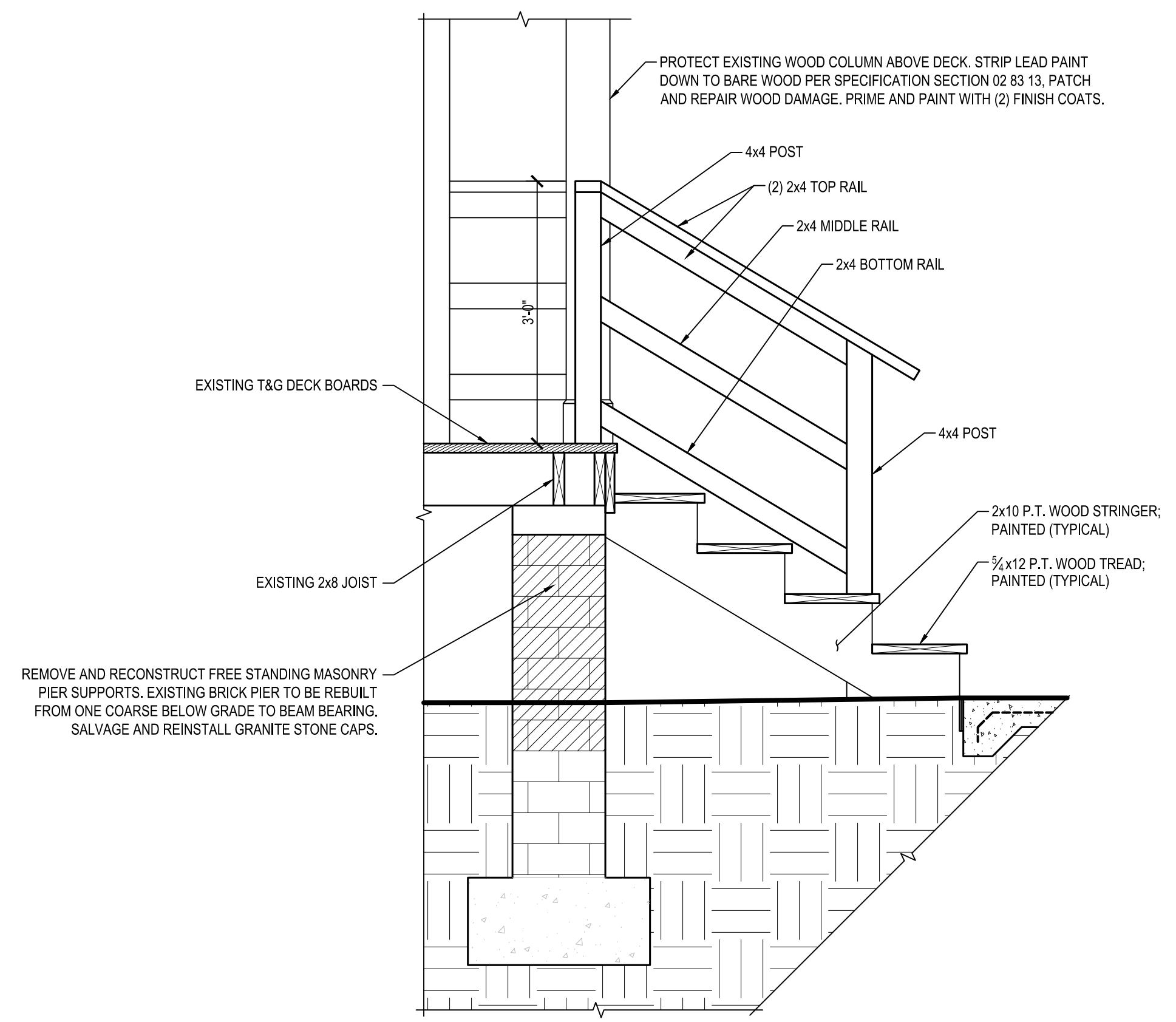
VISITOR CENTER
DETAILS
A501



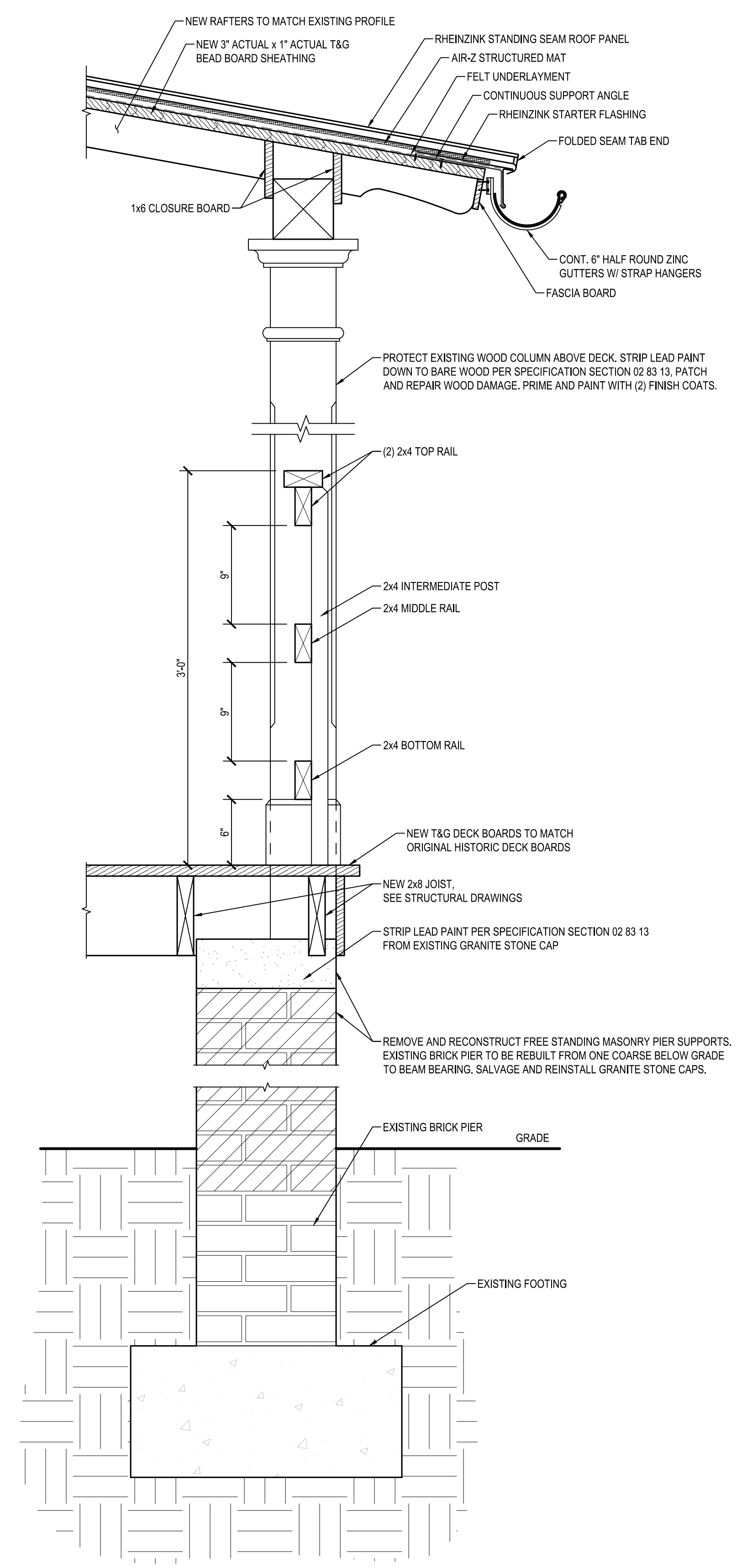
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EAST PORCH STAIR
SCALE: 3/4"=1'-0" 5

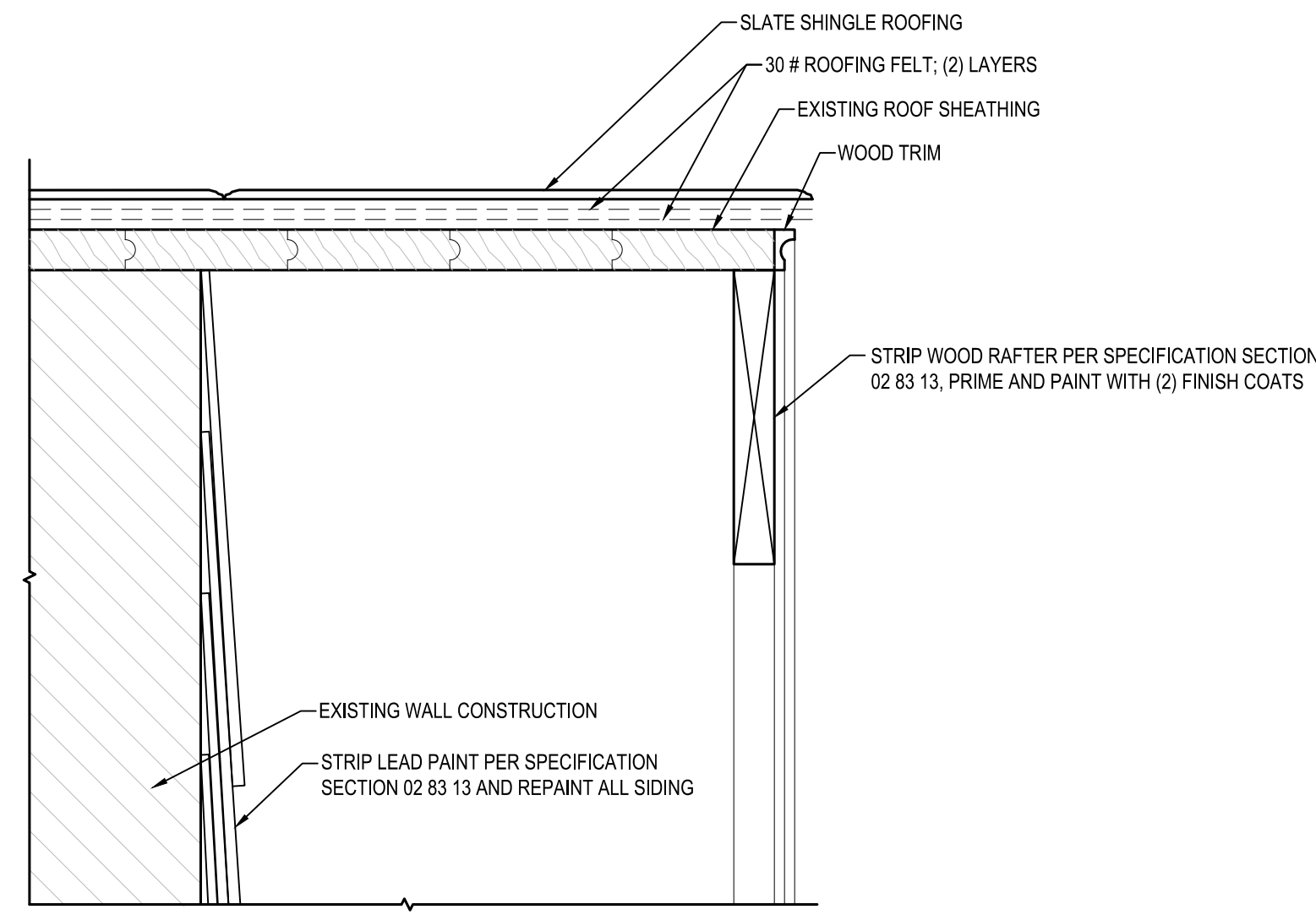


NORTH PORCH STAIR
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PORCH COLUMN SECTION
SCALE: 1-1/2"=1'-0" 4

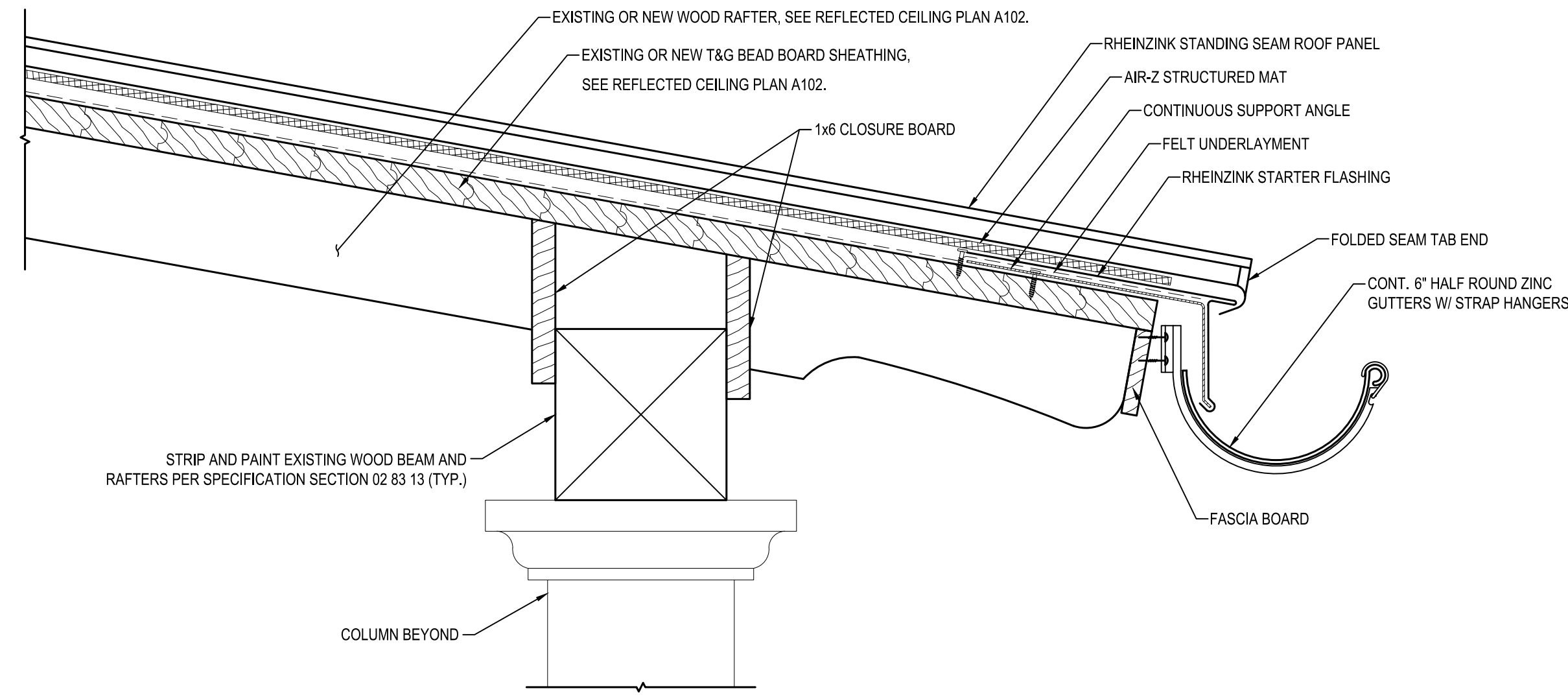
<p>3700 Koppers Street, Suite 300 Baltimore, Maryland 21227-1044 Telephone Number: 410-234-8444</p>	<p><small>*PROFESSIONAL CERTIFICATION I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER C1386, EXPIRATION DATE 01/11/2025.*</small></p> <p><small>(C) GANT BRUNNETT ARCHITECTS ALL REPRODUCTION IS PROHIBITED</small></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 45%;">DESCRIPTION</th> <th style="width: 10%;">BY</th> <th style="width: 40%;">DATE</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">△</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NO.	DESCRIPTION	BY	DATE	△				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023													
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APPROVED _____	DATE _____																											
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PROJECT NO. P535900	CONTRACT NO. P535908																											



SLATE ROOF - RAKE EDGE DETAIL

SCALE: 3"=1'-0"

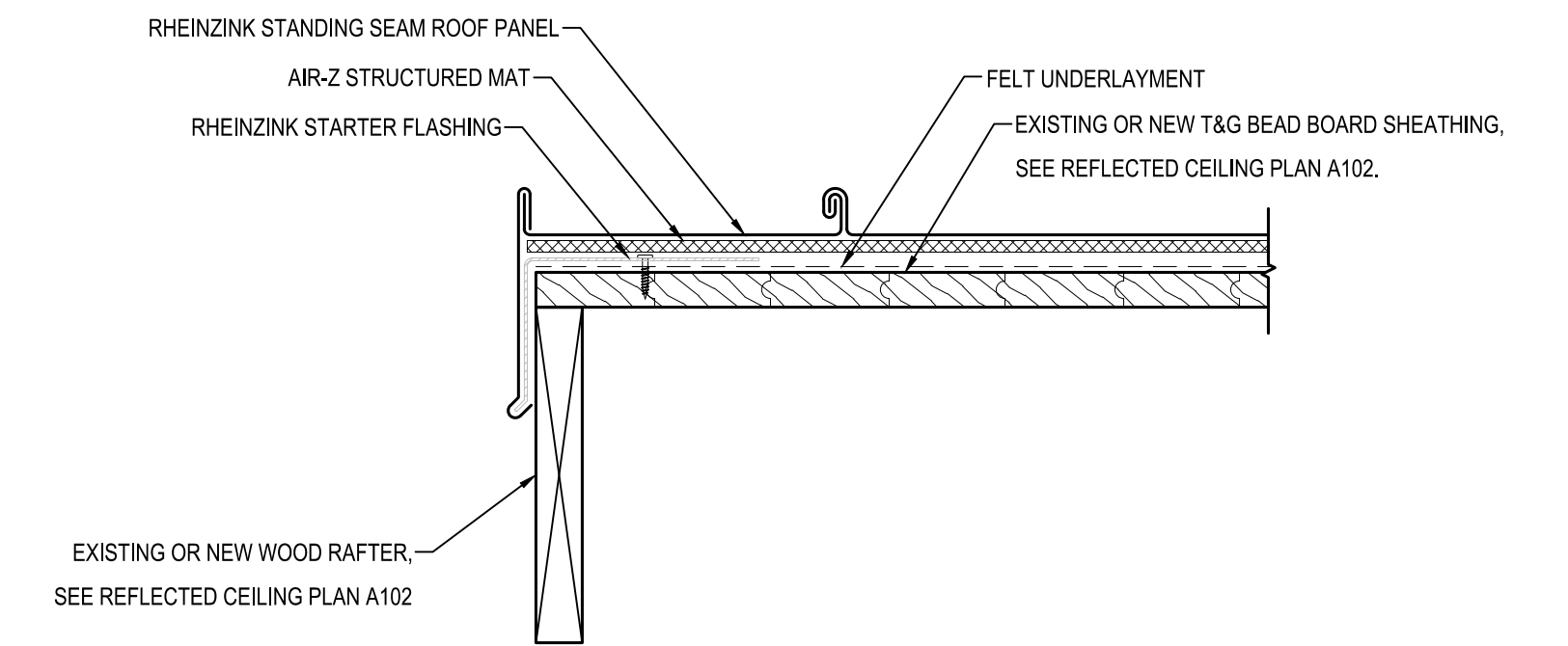
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STANDING SEAM ROOF - EAVE EDGE DETAIL

SCALE: 3"=1'-0"

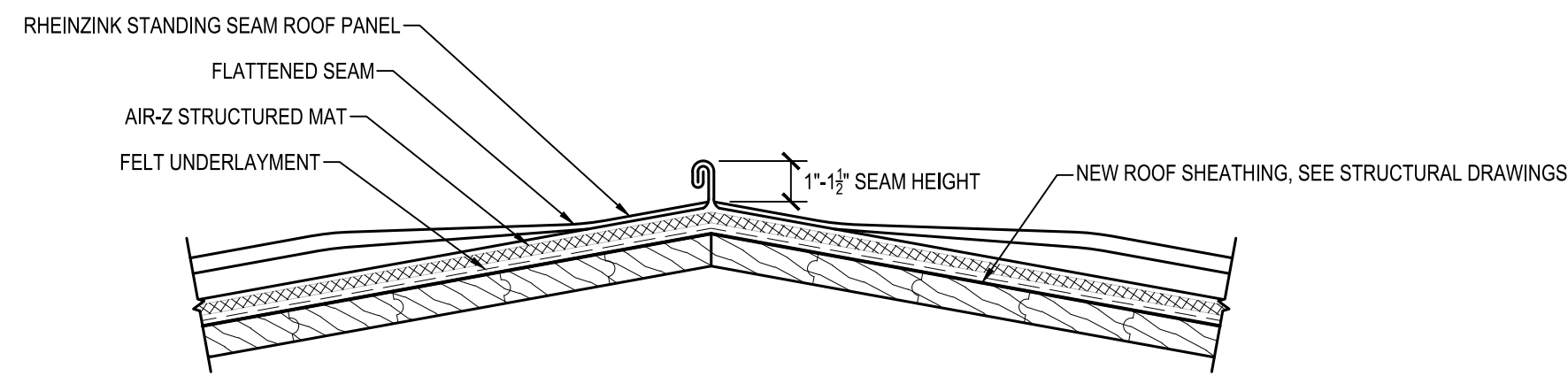
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STANDING SEAM ROOF - RAKE EDGE DETAIL

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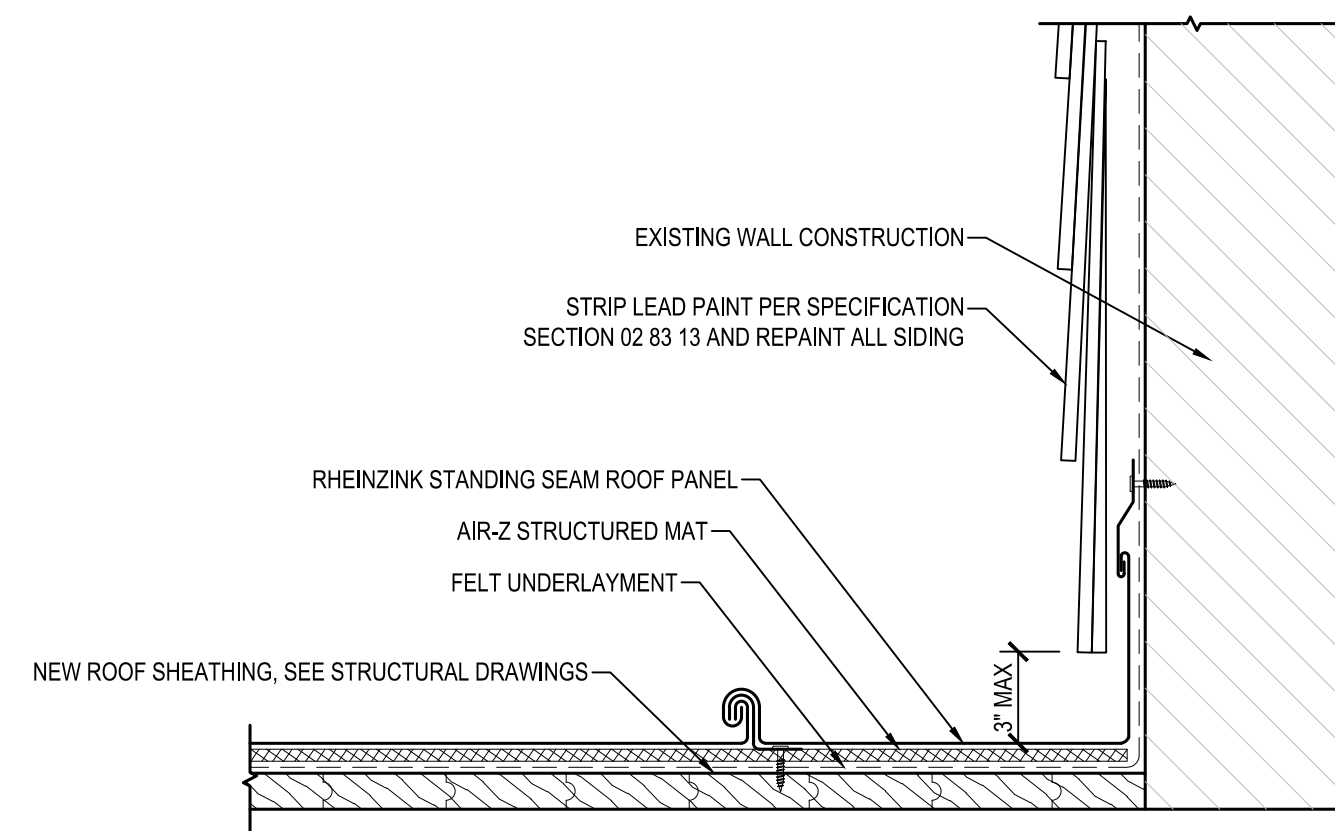
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STANDING SEAM ROOF - HIP DETAIL

SCALE: 3"=1'-0"

7



STANDING SEAM ROOF - SIDEWALL DETAIL

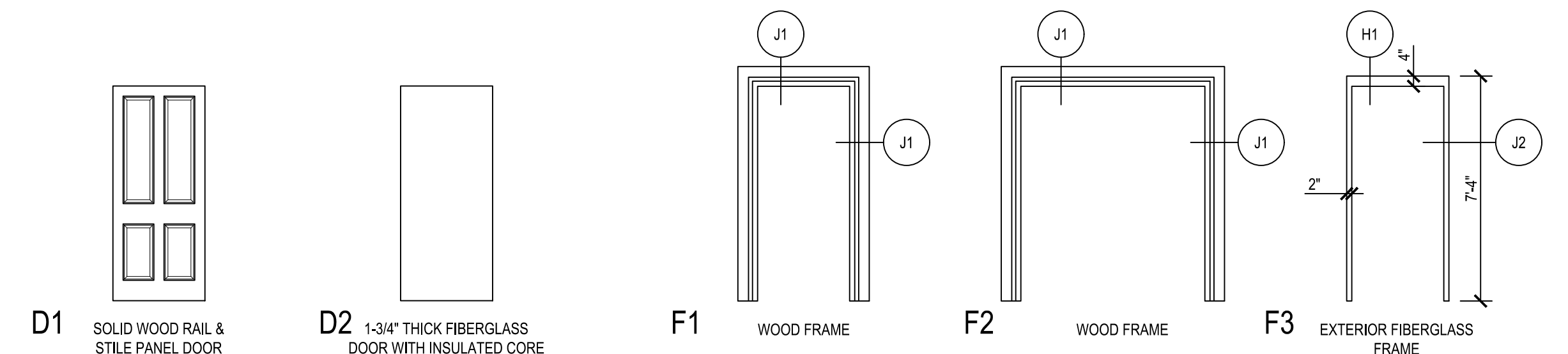
SCALE: 3"=1'-0"

8

NO.	DESCRIPTION	BY	DATE
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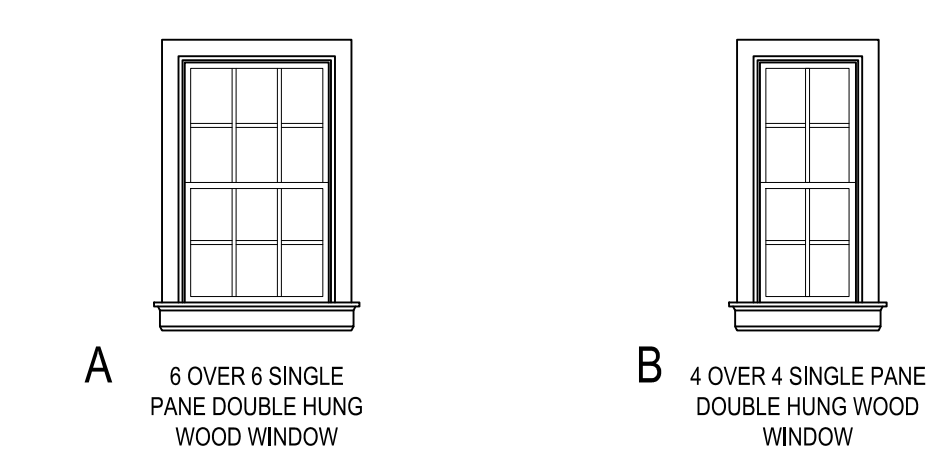
DOOR SCHEDULE								
DOOR NO.	WIDTH	HEIGHT	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	HARDWARE SET	SCOPE OF WORK
101A	4'-8"±	7'-0"±	EXISTING	PAINTED	EXISTING	PAINTED	EXISTING	REPLACE ALL HARDWARE, REPAIR PANEL ON ACTIVE LEAF AND INSTALL NEW THRESHOLD.
101B	2'-10"±	6'-11"±	EXISTING	PAINTED	EXISTING	PAINTED	EXISTING	REPLACE DOOR AND HARDWARE TO MATCH EXISTING.
102A	2'-10"±	6'-11½"±	EXISTING	PAINTED	EXISTING	PAINTED	EXISTING	SAND AND PAINT DOOR AND WOOD FRAME. PATCH AND REPAIR ALL HOLES. REPLACE ALL HARDWARE.
102B	2'-9½"±	6'-11"±	EXISTING	PAINTED	EXISTING	PAINTED	EXISTING	SECURE DOOR IN THE CLOSED POSITION AND COVER INTERIOR WITH DRYWALL. REPAIR EXTERIOR FACE OF DOOR.
103A	3'-0"	7'-0"	D1	PAINTED	F1	PAINTED	HW3	
103B	-	-	EXISTING		EXISTING			REPAIR EXTERIOR FACE OF DOOR, INTERIOR TO REMAIN CONCEALED
104	3'-0"±	6'-8"±	EXISTING	PAINTED	EXISTING	PAINTED	EXISTING	SAND AND PAINT DOOR, REPLACE ALL HARDWARE. REMOVE EXISTING HOLLOW METAL FRAME AND REPLACE WITH NEW WOOD FRAME.
105A	3'-0"±	6'-8"±	EXISTING	PAINTED	EXISTING	PAINTED	EXISTING	SAND AND PAINT DOOR, REPLACE ALL HARDWARE. REMOVE EXISTING HOLLOW METAL FRAME AND REPLACE WITH NEW WOOD FRAME.
105B	(2) 3'-0"	7'-0"	D1	PAINTED	F2	PAINTED	HW4	
106	3'-0"	7'-0"	D1	PAINTED	F1	PAINTED	HW1	
107A	3'-0"	7'-0"	D1	PAINTED	F1	PAINTED	HW2	
107B	-	-	EXISTING		EXISTING			REPAIR EXTERIOR FACE OF DOOR, INTERIOR TO REMAIN CONCEALED
109	3'-0"	7'-0"	D1	PAINTED	F1	PAINTED	HW2	
110	3'-0"	7'-0"	D1	PAINTED	F1	PAINTED	HW2	
111	2'-9½"±	7'-0"±	EXISTING	PAINTED	EXISTING	PAINTED	EXISTING	REPLACE DOOR AND HARDWARE TO MATCH EXISTING. STRIP EXTERIOR FRAME AND CASING.
112	2'-8"±	6'-11"±	EXISTING	PAINTED	EXISTING	PAINTED	EXISTING	STRIP WATER BASED, ACRYLIC PAINT LAYERS AND PRESERVE UNDERLYING HISTORIC OIL BASE PAINT/CLEAR COAT. REPAIR DAMAGED STILE AND REFURBISH HINGES. DOOR TO RECEIVE NEW LOCKSET.
113	2'-8"±	7'-0"±	EXISTING	PAINTED	EXISTING	PAINTED	EXISTING	STRIP DOOR FRAME, SAND AND PAINT DOOR, REPLACE ALL HARDWARE.
114A	2'-10"±	6'-11"±	EXISTING	PAINTED	EXISTING	PAINTED	EXISTING	STRIP DOOR FRAME AND EXTERIOR CASING. PATCH AND REPAIR ALL HOLES.
114B	-	-	EXISTING	PAINTED	EXISTING	PAINTED	EXISTING	STRIP DOOR IN ITS ENTIRETY. PATCH AND REPAIR ALL HOLES. REFURBISH EXISTING DOOR HARDWARE.
201	3'-0"	7'-0"	D2	FACTORY	F3	FACTORY	HW5	WATER TREATMENT BUILDING DOOR

WINDOW SCHEDULE			
WINDOW NO.	WINDOW TYPE	HEIGHT OF SILL A.F.F.	SCOPE OF WORK
W1	A	2'-6"±	STRIP WINDOW IN ITS ENTIRETY EXCEPT LOWER SASH (INSIDE AND OUT), REPLACE CAM LOCK AND REMOVE SCREWS TO MAKE WINDOW FULLY FUNCTIONAL. INSTALL FIXED STORM WINDOW WITH OPAQUE GLASS.
W2	A	2'-6"±	STRIP WINDOW IN ITS ENTIRETY (INSIDE AND OUT), SALVAGE AND REINSTALL CAM LOCK. INSTALL FIXED STORM WINDOW WITH OPAQUE GLASS.
W3	A	2'-6"±	STRIP WINDOW CASINGS AND FRAMES (INSIDE AND OUT), CLEAN AND PAINT WINDOW SASHES. SALVAGE AND REINSTALL CAM LOCK. INSTALL ALUMINUM HORIZONTAL MINI-BLINDS AND FIXED STORM WINDOW.
W4	A	2'-6"±	STRIP WINDOW CASINGS AND FRAMES (INSIDE AND OUT), CLEAN AND PAINT WINDOW SASHES. SALVAGE AND REINSTALL CAM LOCK. INSTALL ALUMINUM HORIZONTAL MINI-BLINDS AND FIXED STORM WINDOW.
W5	B	2'-6"±	STRIP WINDOW FRAME AND CASING (INSIDE AND OUT), REPLACE (3) PANES OF GLASS. REPLACE CAM LOCK. INSTALL FIXED STORM WINDOW WITH OPAQUE GLASS.
W6	A	2'-6"±	STRIP WINDOW FRAME AND CASING (INSIDE AND OUT), REPLACE (3) PANES OF GLASS. SALVAGE AND REINSTALL CAM LOCK. INSTALL ALUMINUM HORIZONTAL MINI-BLINDS AND FIXED STORM WINDOW.
W7	B	2'-6"±	SCRAPE, PRIME AND PAINT WINDOW (INSIDE AND OUT), REPLACE ALL (8) PANES OF GLASS. REFURBISH AND REINSTALL HARDWARE. REPLACE CAM LOCK. INSTALL FIXED STORM WINDOW WITH OPAQUE GLASS.
W8	A	2'-6"±	STRIP WINDOW IN ITS ENTIRETY (INSIDE AND OUT), REBUILD BOTTOM SASH AND REPLACE MISSING MUTTONS TO MATCH EXISTING PROFILE. REPLACE ALL (12) PANES OF GLASS. REFURBISH AND REINSTALL HARDWARE. INSTALL NEW ROPES AND BLOCKS. INSTALL FIXED STORM WINDOW WITH OPAQUE GLASS.
W9	A	2'-6"±	STRIP WINDOW IN ITS ENTIRETY (INSIDE AND OUT), REFURBISH AND REINSTALL HARDWARE. INSTALL FIXED STORM WINDOW WITH OPAQUE GLASS.
W10	A	2'-6"±	STRIP WINDOW IN ITS ENTIRETY (INSIDE AND OUT), REFURBISH AND REINSTALL HARDWARE. INSTALL FIXED STORM WINDOW WITH OPAQUE GLASS.
W11	A	2'-6"±	STRIP WINDOW IN ITS ENTIRETY (INSIDE AND OUT), REPLACE ALL (12) PANES OF GLASS. REFURBISH AND REINSTALL HARDWARE. INSTALL NEW CAM LOCK. INSTALL ALUMINUM HORIZONTAL MINI-BLINDS AND FIXED STORM WINDOW.
W12	A	2'-6"±	STRIP WINDOW IN ITS ENTIRETY (INSIDE AND OUT), REBUILD TOP AND BOTTOM SASHES AND REPLACE MISSING MUTTONS TO MATCH EXISTING PROFILE. REPLACE ALL (12) PANES OF GLASS. REFURBISH AND REINSTALL HARDWARE. INSTALL ALUMINUM HORIZONTAL MINI-BLINDS AND FIXED STORM WINDOW.
W13	A	2'-6"±	STRIP WINDOW IN ITS ENTIRETY (INSIDE AND OUT), REBUILD TOP AND BOTTOM SASHES AND REPLACE MISSING MUTTONS TO MATCH EXISTING PROFILE. REPLACE ALL (12) PANES OF GLASS. REFURBISH AND REINSTALL HARDWARE. INSTALL ALUMINUM HORIZONTAL MINI-BLINDS AND FIXED STORM WINDOW.
W14	A	2'-6"±	STRIP WINDOW IN ITS ENTIRETY (INSIDE AND OUT), REPLACE (4) PANES OF GLASS IN THE UPPER SASH. REBUILD LOWER SASH, INCLUDING (6) PANES OF GLASS, AND REPLACE MISSING MUTTONS TO MATCH EXISTING PROFILE. REFURBISH AND REINSTALL HARDWARE. INSTALL ALUMINUM HORIZONTAL MINI-BLINDS AND FIXED STORM WINDOW.
W15	A	2'-6"±	STRIP WINDOW IN ITS ENTIRETY (INSIDE AND OUT), REPLACE ALL (12) PANES OF GLASS. REFURBISH AND REINSTALL HARDWARE. INSTALL ALUMINUM HORIZONTAL MINI-BLINDS AND FIXED STORM WINDOW.
W16	A	2'-6"±	STRIP FRAME, CASINGS, AND SASHES (INSIDE AND OUT), REPLACE (4) PANES OF GLASS. REFURBISH AND REINSTALL HARDWARE. INSTALL ALUMINUM HORIZONTAL MINI-BLINDS AND FIXED STORM WINDOW.
W17	A	2'-6"±	STRIP FRAME, SILL, CASINGS AND TRIM (INSIDE AND OUT), REPLACE ALL (12) PANES OF GLASS. REPLACE CAM LOCK AND BLOCK. INSTALL FIXED STORM WINDOW.
W18	A	2'-6"±	PROVIDE NEW TOP AND BOTTOM SASHES AND REPLACE MISSING MUTTONS TO MATCH EXISTING PROFILE. REPLACE ALL (12) PANES OF GLASS. REPLACE ALL HARDWARE. INSTALL ALUMINUM HORIZONTAL MINI-BLINDS AND FIXED STORM WINDOW.
W19	A	2'-6"±	STRIP FRAME, CASING AND SILL (INSIDE AND OUT), PROVIDE NEW TOP AND BOTTOM SASH AND REPLACE MISSING MUTTONS TO MATCH EXISTING PROFILE. REPLACE ALL (12) PANES OF GLASS. PROVIDE NEW ROPES, BLOCKS AND WEIGHTS. REPAIR CASING AT LOWER WINDOW. INSTALL ALUMINUM HORIZONTAL MINI-BLINDS AND FIXED STORM WINDOW.



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

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



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

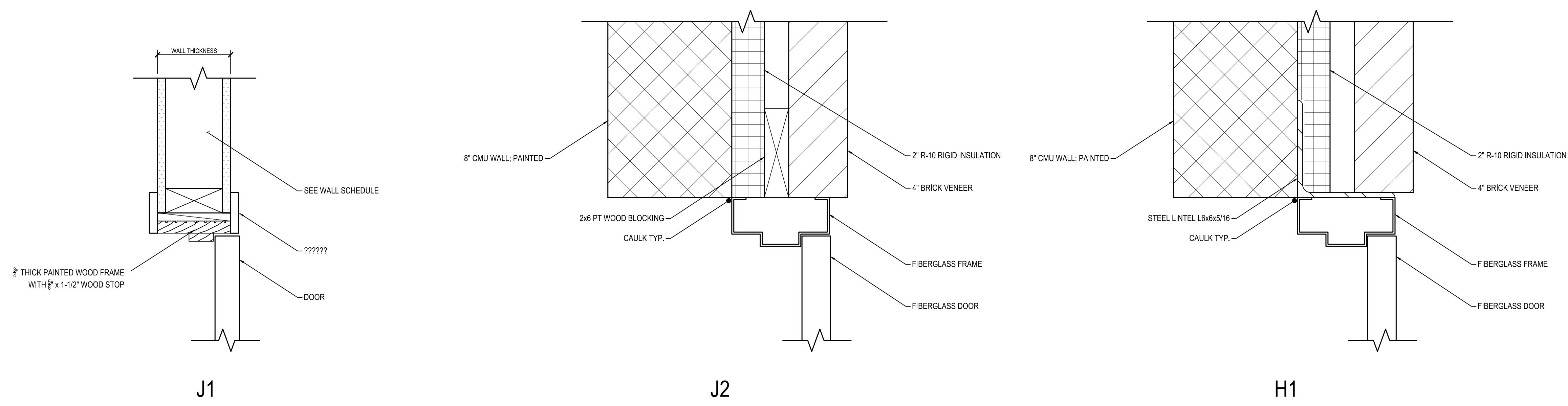
HARDWARE SETS

- HW1 FULL MORTISE CLASSROOM FUNCTION LEVER LOCKSET (3) MEDIUM FREQUENCY HINGES SILENCERS
- HW2 FULL MORTISE PRIVACY FUNCTION LEVER LOCKSET (3) MEDIUM FREQUENCY HINGES CLOSER WITH HOLD OPEN FUNCTION WALL MOUNTED DOOR STOP SILENCERS
- HW3 FULL MORTISE OFFICE FUNCTION LEVER LOCKSET (3) MEDIUM FREQUENCY HINGES SILENCERS
- HW4 ACTIVE LEAF: (3) MEDIUM FREQUENCY HINGES CLASSROOM FUNCTION LEVER LOCKSET
- INACTIVE LEAF: (3) MEDIUM FREQUENCY HINGES TOP & BOTTOM SURFACE BOLTS
- HW5 (WATER TREATMENT BUILDING) FULL MORTISE STORAGE FUNCTION LEVER LOCKSET (3) MEDIUM FREQUENCY HINGES CLOSER WITH HOLD OPEN FUNCTION WEATHER STRIPPING

- WINDOW GENERAL NOTES**
- FIELD VERIFY ALL WINDOWS AND FRAMES.
 - REMOVE ALL MISCELLANEOUS HARDWARE.
 - REMOVE ALL ALUMINUM STORM WINDOW ASSEMBLIES AND CONSTRUCT NEW FIXED STORM WINDOW AT ALL WINDOW OPENINGS. STORM WINDOW PROFILE SHOULD NOT PROTRUDE FARTHER THAN THE EXISTING WINDOW FRAME PROFILE.
 - LED PAINT TO BE STRIPPED PER SPECIFICATION SECTION 02 83 13.

- DOOR GENERAL NOTES**
- FIELD VERIFY ALL WINDOWS AND FRAMES.
 - REMOVE ALL MISCELLANEOUS HARDWARE.
 - LED PAINT TO BE STRIPPED PER SPECIFICATION SECTION 02 83 13.

HEAD AND JAMB DETAILS
SCALE: 3"=1'-0"



<p>gant-brunnett ARCHITECTS 3700 Koppers Street, Suite 300 Baltimore, Maryland 21227-1044 Telephone Number: 410-234-8444</p>	<p>PROFESSIONAL CERTIFICATION I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER C1386, EXPIRATION DATE 01/11/2025.*</p> <p>(C) GANT BRUNNETT ARCHITECTS ALL REPRODUCTION IS PROHIBITED</p>	NO.	DESCRIPTION	BY	DATE	<p align="center">ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p align="right">DATE: 9-25-2023</p>	
		APPROVED	DATE	APPROVED	DATE	SCALE: AS NOTED	<p align="center">FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122</p>
CHIEF ENGINEER		PROJECT MANAGER		CHECKED BY: JB	SHEET NO. 37 OF 65		<p align="center">VISITOR CENTER SCHEDULES</p>
APPROVED	DATE	APPROVED	DATE	PROJECT NO. P535900	CONTRACT NO. P535908		
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY			A601		

DESIGN CRITERIA:

- DEAD, LIVE, SNOW, WIND, AND SEISMIC DESIGN LOADS ARE IN ACCORDANCE WITH THE ANNE ARUNDEL COUNTY BUILDING CODE WHICH INCORPORATES THE INTERNATIONAL BUILDING CODE – IBC 2018.
- DESIGN DEAD LOADS HAVE BEEN ACCOUNTED FOR BASED UPON THE ACTUAL WEIGHT OF MATERIALS OF CONSTRUCTION INCORPORATED INTO THE BUILDING, INCLUDING BUT NOT LIMITED TO FLOORS, ROOFS, WALLS, CEILINGS, FINISHES, CLADDING, AND OTHER SIMILARLY INCORPORATED ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS. SEE THE APPROPRIATE DISCIPLINES PLANS AND SECTIONS FOR ADDITIONAL INFORMATION. DESIGN LIVE LOADS ARE AS FOLLOWS:

AREA	LIVE LOAD
FIRST FLOOR	100 PSF
ROOFS	30 PSF

- SNOW LOADING IS BASED ON THE FOLLOWING, INCLUDING PROVISIONS FOR DRIFTING SNOW:

GROUND SNOW LOAD	30 PSF
FLAT–ROOF SNOW LOAD	21 PSF
RISK CATEGORY	II
SURFACE ROUGHNESS CATEGORY	C
EXPOSURE CATEGORY	D
EXPOSURE FACTOR	1.00
IMPORTANCE FACTOR	1.00
THERMAL FACTOR	1.00

- WIND LOADING IS BASED ON THE FOLLOWING:

ULTIMATE DESIGN WIND SPEED	115 MPH
NOMINAL DESIGN WIND SPEED	89.1 MPH
RISK CATEGORY	II
SURFACE ROUGHNESS CATEGORY	C
EXPOSURE CATEGORY	D
INTERNAL PRESSURE COEFFICIENT	+/-0.18
TOPOGRAPHIC FACTOR	1.00
DIRECTIONALITY FACTOR	0.85

COMPONENTS & CLADDING ULTIMATE DESIGN PRESSURES,

IT IS THE RESPONSIBILITY OF THE COMPONENT & CLADDING ENGINEER TO CALCULATE WIND LOADS FOR COMPONENTS AND CLADDING BASED ON EACH COMPONENT'S TRIBUTARY AREA AND LOCATION ON THE BUILDING.

- SEISMIC LOADING IS BASED ON THE FOLLOWING:

MAPPED SPECTRAL RESPONSE ACCELERATION, S _s	0.135 G
MAPPED SPECTRAL RESPONSE ACCELERATION, S ₁	0.042 G
LONG–PERIOD TRANSITION PERIOD, T _L	B
RISK CATEGORY	II
IMPORTANCE FACTOR	1.00
SITE CLASS	D
DESIGN SPECTRAL RESPONSE ACCELERATION, S _{ds}	0.144 G
DESIGN SPECTRAL RESPONSE ACCELERATION, S _{d1}	0.067 G

- SLABS–ON–GRADE HAVE BEEN DESIGNED USING A MODULUS OF SUBGRADE REACTION (k) OF 100 PCF.
- DESIGN REACTIONS AND SUPPORT DETAILS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT IS BASED UPON AVAILABLE MANUFACTURER INFORMATION. SUPPORT CONDITIONS MAY NEED TO BE REVISED BASED UPON ACTUAL SUPPLIED EQUIPMENT AND SUPPORT DETAILS. ANY MECHANICAL EQUIPMENT NOT SHOWN ON THE STRUCTURAL DRAWINGS AND HAVING A WEIGHT IN EXCESS OF 500 POUNDS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- CONSTRUCTION LOADS IMPOSED BY EQUIPMENT OR OTHER CONSTRUCTION ACTIVITY THAT EXCEED THE DESIGN LIVE LOAD SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.
- ALL MASONRY VENEER SHALL BE CONNECTED TO THE STRUCTURE WITH TIES AT A MAXIMUM SPACING OF 16" o/c HORIZONTALLY, AND 16" o/c VERTICALLY UNLESS OTHERWISE INDICATED. ALL VENEER ANCHORS SHALL BE SELECTED BASED ON ABOVE STATED LATERAL DESIGN CRITERIA AND ARCHITECTURAL REQUIREMENTS.

SUBMITTALS:

- BEFORE SUBMISSION OF SHOP DRAWINGS, THE CONTRACTOR SHALL HAVE DETERMINED AND VERIFIED ALL QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR DATA AND SHALL HAVE COORDINATED EACH SHOP DRAWING WITH OTHER SHOP DRAWINGS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- PRIOR TO SUBMISSIONS, THE CONTRACTOR SHALL STAMP OR PROVIDE A SIMILAR WRITTEN INDICATION THAT THE CONTRACTOR HAS REVIEWED THE SUBMISSION AND IS SATISFIED THE CONTENTS ARE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- REPRINTS OF THE CONTRACT DOCUMENTS WILL NOT BE ACCEPTED.
- NO DIMENSIONAL INFORMATION MAY BE OBTAINED BY DIRECT SCALING OF THE DRAWINGS.
- ELECTRONIC OR ADEQUATE NUMBER OF PAPER SETS SHALL BE SUBMITTED SO THAT THE ARCHITECT/ENGINEER CAN MAINTAIN ONE RECORD SET AT ALL TIMES.
- ALL SUBMITTALS USED FOR CONSTRUCTION SHALL BEAR THE STAMP OF THE ARCHITECT/ENGINEER AND SHALL BE MARKED "APPROVED" OR "APPROVED AS NOTED".

EXISTING CONSTRUCTION:

- ALL MEMBER SIZES, DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS ARE OBTAINED FROM AVAILABLE SOURCES, AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE MEMBER SIZES, DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF WORK, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER.
- FOR ADDITIONAL INFORMATION ON THE EXISTING CONSTRUCTION, THE CONTRACTOR SHALL REFER TO DRAWINGS OF THE EXISTING STRUCTURES AND PROVIDE ADDITIONAL EXISTING BUILDING SURVEYS AS NECESSARY.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS AND PERMANENT UNDERPINNING AS REQUIRED TO SUPPORT THE EXISTING STRUCTURES. THE CONTRACTOR SHALL EXAMINE THE EXISTING STRUCTURES TO DETERMINE THE EXTENT OF TEMPORARY SUPPORTS AND PERMANENT UNDERPINNING NECESSARY. THE CAPACITY AND METHOD USED FOR THE TEMPORARY SUPPORTS AND PERMANENT UNDERPINNING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

DEMOLITION NOTES:

- REMOVE EXISTING CONSTRUCTION AS SHOWN ON PLANS. SEE PLANS, SECTIONS, AND DETAILS FOR EXTENT OF STRUCTURE TO BE REMOVED.
- EXISTING STRUCTURAL FRAMING SHALL REMAIN UNLESS SPECIFICALLY NOTED ON PLAN TO BE REMOVED.
- IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, NOTIFY ARCHITECT/STRUCTURAL ENGINEER BEFORE PROCEEDING WITH DEMOLITION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE THE EXISTING BUILDING DURING THE COURSE OF CONSTRUCTION AND IMMEDIATELY ADVISE THE ARCHITECT/ENGINEER OF ANY AREAS WHERE THE STRUCTURE EXHIBITS DISTRESS OR FAILURE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE LOCATION OF ANY EXISTING SYSTEMS IN THE IMMEDIATE VICINITY OF CONSTRUCTION SO AS TO PREVENT DAMAGE TO THEM. SHOULD ANY DAMAGE TO SUCH SYSTEMS OCCUR THE CONTRACTOR SHALL BE REQUIRED TO REPAIR SUCH DAMAGE AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER.

FOUNDATIONS:

- ALL SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR CONTROLLED STRUCTURAL FILL, HAVING A MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF. ALL SPREAD FOOTINGS SHALL PROJECT AT LEAST 1'-0" INTO SOIL HAVING SUCH MINIMUM BEARING VALUE.
- THE CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED GEOTECHNICAL ENGINEER, APPROVED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE CONTRACTOR, TO VERIFY SOIL BEARING CAPACITY AT EACH FOOTING PRIOR TO INSTALLATION. NOTIFY ARCHITECT/ENGINEER OF ANY VARIATION FROM ANTICIPATED BEARING CAPACITY FOR APPROPRIATE REDESIGN OR LOWERING OF FOOTINGS.
- EXCAVATION, SUBGRADE PREPARATION, AND FOOTING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- ALL SUBGRADE PREPARATION, FILL, AND BACKFILL OPERATIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER.
- ALL ORGANIC MATERIALS, UNSUITABLE FILL, AND CONSTRUCTION DEBRIS SHALL BE REMOVED IN REGIONS OF ALL FOUNDATIONS.
- THE BOTTOMS OF ALL EXTERIOR FOOTINGS SHALL BE 2'-6" MINIMUM BELOW FINISHED GRADE.
- EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION.
- THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS, AND ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER.
- NO HORIZONTAL JOINTS SHALL BE PLACED IN WALLS EXCEPT AS SHOWN ON THE DRAWINGS WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
- THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- BACKFILLING AGAINST WALLS SHALL NOT BE DONE UNTIL CONCRETE AND/OR MASONRY GROUT HAS BEEN CURED TO ATTAIN SUFFICIENT STRENGTH (7 DAYS MINIMUM) AND WALLS ARE PROPERLY SHORED AND/OR BRACED. BACKFILLING AGAINST BASEMENT WALLS SHALL NOT BE DONE UNTIL THE FLOOR SLABS AT TOP AND BOTTOM OF WALLS HAVE BEEN PLACED AND HAVE CURED. BACKFILL FOUNDATION WALLS WITH EARTH ON BOTH SIDES OF THE WALL BY ALTERNATELY PLACING BACKFILL ON EACH SIDE SO THAT HEIGHT OF BACKFILL DOES NOT DIFFER BY MORE THAN 1'-6" FROM OTHER SIDE.
- ALL ADJACENT COLUMN FOOTINGS THAT ABUT SHALL BE SEPARATED BY A PAPER JOINT.

FOUNDATION CONCRETE:

- ALL CONCRETE SHALL CONFORM TO THE PROVISIONS OF ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, (ACI 318–LATEST EDITION) AND ACI SPECIFICATIONS FOR STRUCTURAL CONCRETE IN BUILDINGS, (ACI 301–LATEST EDITION).
- ALL FOUNDATION CONCRETE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

STRUCTURAL ELEMENT	f'c@28 DAYS	DRY WEIGHT	MAX W/C	AGGREGATE SIZE	AIR CONTENT
A. SLAB–ON–GRADE	3,500 PSI	150 PCF	0.50	3/8" TO 1"	NA
B. FOOTINGS	3,500 PSI	150 PCF	0.50	3/8" TO 1"	6% +/-1%

- NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN REVIEWED BY THE ARCHITECT/ENGINEER.
- USE A WATER REDUCING ADMIXTURE IN ALL CONCRETE.
- SLUMP AND MINIMUM CEMENTITIOUS MATERIALS CONTENT SHALL BE AS REQUIRED BY ACI 301–LATEST EDITION.
- NO CALCIUM CHLORIDE IN ANY FORM WILL BE PERMITTED IN CONCRETE.
- ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION.
- EXCAVATIONS SHALL BE KEPT FREE OF WATER. NO CONCRETE SHALL BE PLACED IN WATER.
- ALL SLABS ON GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN OR AS REQUIRED BY VARIOUS TRADES.
- CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT TESTING AGENCY APPROVED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE CONTRACTOR TO PERFORM TESTS OF CONCRETE. TAKE A MINIMUM OF 6 CYLINDER SAMPLES PER 50 CUBIC YARDS OF EACH CLASS OF CONCRETE POURED IN ANY ONE DAY. PERFORM SLUMP, AIR CONTENT, AND TEMPERATURE TESTING AT THE TIME OF EACH SAMPLING.

CONCRETE MASONRY:

- CONCRETE MASONRY SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, (ACI 530–LATEST EDITION) AND SPECIFICATION FOR MASONRY STRUCTURES, (ACI 530.1–LATEST EDITION).
- CONCRETE MASONRY SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF MASONRY, f'm = 2,000 PSI.
- CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT EDITIONS OF THE FOLLOWING STANDARDS:

HOLLOW LOAD–BEARING UNITS	ASTM C90
SOLID LOAD–BEARING UNITS	ASTM C145
HOLLOW NON–LOAD–BEARING UNITS	ASTM C129
CONCRETE BUILDING BRICK	ASTM C55

- ALL CONCRETE MASONRY SHALL BE NORMAL WEIGHT.
- MORTAR FOR REINFORCED AND UNREINFORCED MASONRY SHALL CONFORM TO THE REQUIREMENTS OF ASTM C270, TYPE S, UNO.
- GROUT FOR REINFORCED OR UNREINFORCED MASONRY SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
- MASONRY REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, UNO. ALL CMU CELLS CONTAINING REINFORCEMENT SHALL BE GROUTED SOLID. SEE TYPICAL MASONRY REBAR DEVELOPMENT AND LAP SCHEDULE FOR ADDITIONAL INFORMATION.
- ALL REINFORCEMENT SHOWN IN WALLS SHALL BE CENTERED IN MASONRY UNITS UNLESS NOTED OTHERWISE.
- WHERE DRAWINGS INDICATE CMU CELLS TO BE FILLED SOLID, CELLS OF CMU SHALL BE FILLED WITH GROUT IN 5'-4" MAXIMUM LIFTS FOLLOWING LOW–LIFT GROUTING PROCEDURES OR 12'-8" MAXIMUM LIFTS FOLLOWING HIGH–LIFT GROUTING PROCEDURES, UNO.
- ALL CONCRETE MASONRY SHALL HAVE GALVANIZED, TRUSS OR LADDER TYPE, HORIZONTAL JOINT REINFORCEMENT SPACED VERTICALLY AT 16" o/c MAXIMUM WITH PREFABRICATED CORNER AND "T" PIECES UNLESS NOTED OTHERWISE. LAP ALL SPLICES 6" MINIMUM. PROVIDE AN ADDITIONAL ROW ABOVE AND BELOW ALL OPENINGS AND EXTEND TWO FEET BEYOND JAMBS. STOP HORIZONTAL REINFORCING EACH SIDE OF CONTROL JOINTS.
- WHERE MASONRY WALLS OF HOLLOW UNITS OR MASONRY BONDED WALLS CHANGE IN THICKNESS, THE WALL SHALL BE FILLED SOLID WITH GROUT OR OTHERWISE CONSTRUCTED SOLID FOR AT LEAST ONE COURSE (8" MIN) IMMEDIATELY BELOW SUCH LEVEL WHERE THE THICKNESS CHANGES.
- EXCEPT AS OTHERWISE SHOWN, CELLS IN MASONRY UNDER BEARING AREAS FOR BEAMS, LINTELS, AND SLABS SHALL BE FILLED SOLID WITH CONCRETE FOR AT LEAST THREE COURSES (24" MIN) IMMEDIATELY BELOW SUCH BEARING.
- ALL MASONRY WALLS SHALL HAVE TEMPORARY BRACING INSTALLED UNTIL ALL FLOOR AND/OR ROOF SYSTEMS HAVE BEEN COMPLETELY INSTALLED AND ATTACHED TO MASONRY WALLS. CONTRACTOR IS SOLELY RESPONSIBLE FOR TEMPORARY BRACING.
- AT NON BEARING WALLS A 1" GAP SHALL BE PROVIDED BETWEEN THE TOP OF THE WALL AND THE UNDERSIDE OF THE STRUCTURAL FLOOR OR ROOF FRAMING. SEE TYPICAL TOP OF NON BEARING MASONRY WALL DETAIL FOR ADDITIONAL INFORMATION.
- PROVIDE VERTICAL CONTROL JOINTS WHERE INDICATED ON ARCHITECTURAL DRAWINGS, BUT NOT TO EXCEED 1.5 TIMES THE WALL HEIGHT OR 25 FEET, WITHIN ONE HALF THE TYPICAL CONTROL JOINT SPACING FROM BUILDING CORNERS, AT INTERIOR WALL INTERSECTIONS, AT CHANGES IN WALL HEIGHT, AT PILASTERS AND CHANGES IN WALL THICKNESS, AND A MINIMUM OF 2 FEET FROM WALL OPENINGS, UNO.
- PROVIDE MASONRY ANCHORS ALONG SPANDREL MEMBERS AND AT ALL STEEL COLUMNS, BEAMS, AND LINTELS EMBEDDED IN MASONRY WALLS. ANCHORS TO BE INSTALLED AT 16" o/c EACH FACE, UNO. ANCHORS SHALL CONSIST OF CHANNEL SLOTS MADE OF 11 GA. GALVANIZED STEEL WELDED TO STEEL MEMBER (BY STEEL FABRICATOR) AND CORRUGATED ANCHORS SHALL BE MADE OF 16 GA. x 1-1/4" GALVANIZED CORRUGATED STEEL (BY MASONRY CONTRACTOR).

STAIRS AND RAILINGS:

- STAIR DESIGNER SHALL DESIGN ALL STAIRS, HANDRAILS AND GUARDRAILS TO SUPPORT THE FOLLOWING DESIGN LOADS:
STAIRS:
 DEAD LOAD: AS REQUIRED BY CONSTRUCTION
 LIVE LOAD: 100 PSF UNIFORM OR 300 LBS CONCENTRATED LOAD AT CENTER TREAD OR AT ANY POINT ON LANDING.

HANDRAILS:
 50 PLF OR 200 LBS CONCENTRATED LOAD, WHICHEVER IS GREATER, APPLIED AT ANY POINT IN ANY DIRECTION.

GUARDRAILS:
 100 PLF VERTICALLY AND 50 PLF HORIZONTALLY, OR A 200 LBS CONCENTRATED LOAD, WHICHEVER IS GREATER, APPLIED AT ANY POINT AND IN ANY DIRECTION TO THE TOP RAIL. A 200 LBS CONCENTRATED LOAD APPLIED ON A ONE SQUARE FOOT AREA AT ANY POINT FOR REMAINING GUARDRAIL INFILL COMPONENTS.

- SUBMIT COMPLETE SHOP AND ERECTION DRAWINGS FOR REVIEW AND COMMENT PRIOR TO FABRICATION OR ERECTION. STAIR SUPPLIER'S SHOP DRAWINGS SHALL CONTAIN A CERTIFICATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER STATING THAT THE STAIR, HANDRAIL, AND GUARDRAIL COMPONENTS HAVE BEEN DESIGNED TO SUPPORT THE SPECIFIED LOADS.

REINFORCEMENT:

- ALL DEVELOPMENT AND SPLICES OF REINFORCEMENT SHALL CONFORM TO THE PROVISIONS OF ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, (ACI 318–LATEST EDITION).
- REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. WELDABLE DEFORMED BARS SHALL CONFORM TO ASTM A706. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
- WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A1064 AND BE SPLICED SO THAT THE OVERLAP OF THE OUTERMOST CROSS WIRES OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, UNO.
- REINFORCING BAR SUPPORTS AND SPACERS SHALL CONFORM TO (ACI 315–LATEST EDITION) DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
- MINIMUM REBAR COVER FOR CONCRETE SHALL BE AS SHOWN IN THE FOLLOWING TABLE, UNO:

EXPOSURE CONDITION	CONCRETE COVER	TOLERANCE (+/-)
A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	3/8"
B. EXPOSED TO EARTH OR WEATHER		
#5 AND SMALLER BARS AND WWF	1-1/2"	3/8"
#6 AND LARGER BARS	2"	3/8"
C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND		
SLABS, WALLS, & JOISTS	3/4"	1/4"
BEAMS & COLUMNS (PRIMARY REBAR, TIES, STIRRUPS, & SPIRALS)	1-1/2"	3/8"

- ALL OTHER REINFORCEMENT TOLERANCES SHALL CONFORM TO THE PROVISIONS OF ACI STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS, (ACI 117–LATEST EDITION).
- SHEAR STUD RAIL ASSEMBLIES SHALL CONSIST OF HEADED STUDS WELDED TO A STEEL BASE RAIL IN ACCORDANCE WITH ACI 421.1R AND ASTM A1044. SHEAR STUD RAIL ASSEMBLIES SHALL BE OF SIZE, SPACING, AND ARRANGEMENT SHOWN ON THE DRAWINGS. WELD STUDS SHALL BE STUD WELDED TO THE RAILS IN COMPLIANCE WITH THE AMERICAN WELDING SOCIETY AWS D1.1 STRUCTURAL WELDING CODE.
- SHOP DRAWINGS SHOWING ALL REINFORCING STEEL AND NECESSARY SECTIONS AND DETAILS FOR THE PROPER POSITIONING SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND COMMENT BEFORE FABRICATION OR PLACEMENT OF THE STEEL.

WOOD FRAMING:

- WOOD FRAMING AND FASTENERS SHALL COMPLY WITH THE RECOMMENDATIONS OF THE AMERICAN FOREST AND PAPER ASSOCIATION.
- PLYWOOD – AMERICAN PLYWOOD ASSOC. (APA) GRADE TRADE MARKED MEETING THE REQUIREMENTS OF THE LATEST EDITION OF U.S. PRODUCT STANDARD PS-1.
- CONSTRUCTION GLUE: PL400 HEAVY DUTY CONSTRUCTION ADHESIVE BY CONTECH OR EQUAL MEETING APA SPECIFICATION AFG-01. APPLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- UNLESS OTHERWISE NOTED ON DRAWINGS, NAIL PLYWOOD TO FRAMING AT 6" o/c ON EDGES OF SHEET AND 12" o/c ON EACH INTERIOR SUPPORT.
- FOR PLYWOOD 1/2" IN THICKNESS AND LESS USE H CLIPS AT MIDPOINT FOR SPANS GREATER THAN 16" o/c. FOR PLYWOOD 5/8" AND THICKER USE T & G EDGES OR H CLIPS AT MIDPOINT FOR SPANS GREATER THAN 16" o/c.
- STRUCTURAL SAWN LUMBER SHALL BE OF NOMINAL SIZE CROSS SECTIONS AS SHOWN ON THE PLANS, SECTIONS AND SCHEDULES WITH THE FOLLOWING MINIMUM STRUCTURAL PROPERTIES IN ACCORDANCE WITH THE AMERICAN FOREST & PAPER ASSOCIATION (AFPA):

FRAMING MEMBER	WOOD SPECIES & GRADE	Fb (PSI)	Ft (PSI)	Fv (PSI)	Fc(I) (PSI)	Fc(II) (PSI)	E (PSI)	MOISTURE CONTENT
INTERIOR STUDS & BUILT–UP POSTS	PT SPRUCE–PINE–FIR NO.1/NO.2	875	450	135	425	1150	1,400,000	19% MAX.
EXTERIOR STUDS & BUILT–UP POSTS	PT SOUTHERN PINE NO.2	1000	600	175	565	1400	1,400,000	19% MAX.
COLUMNS (5"x5" & LARGER)	PT SOUTHERN PINE NO.1	1350	900	165	375	825	1,500,000	19% MAX.
PLATES	PT SOUTHERN PINE NO.2	1000	600	175	565	1400	1,400,000	19% MAX.
BEAMS & LINTELS (2" – 4" THICK)	PT SOUTHERN PINE NO.2	800	475	175	565	1300	1,400,000	19% MAX.
BEAMS & LINTELS (5" x 5" AND LARGER)	PT SOUTHERN PINE NO.2	850	550	165	375	525	1,200,000	19% MAX.

- PROVIDE PRESSURE TREATED LUMBER FOR ALL STUD WALLS, TOP AND BOTTOM PLATES, CONCRETE, OR MASONRY. PRESSURE TREATED LUMBER SHALL BE IN COMPLIANCE WITH AWPA CURRENT STANDARDS.
- ALL CONNECTIONS AND FASTENERS USED AT PRESSURE TREATED AND FIRE RETARDANT TREATED LUMBER SHALL BE STAINLESS STEEL.
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE AN ALLOWABLE BENDING STRESS OF 2,600 PSI, AN ALLOWABLE MODULUS OF ELASTICITY OF 1,900 KSI, AN ALLOWABLE SHEAR STRESS OF 285 PSI, AND ALLOWABLE COMPRESSIVE STRESS PARALLEL TO THE GRAIN OF 2,510 PSI.
- PARALLEL STRAND LUMBER (PSL) SHALL HAVE AN ALLOWABLE BENDING STRESS OF 2,900 PSI, AN ALLOWABLE MODULUS OF ELASTICITY OF 2,200 KSI, AN ALLOWABLE SHEAR STRESS OF 290 PSI, AND ALLOWABLE COMPRESSIVE STRESS PARALLEL TO THE GRAIN OF 2,900 PSI.
- ALL LIGHT GAUGE METAL CONNECTORS SHALL BE EITHER SIMPSON STRONG-TIE OR USP STRUCTURAL CONNECTORS, UNO. ANY SUBSTITUTION MUST BE APPROVED BY THE ENGINEER.
- WHERE CONNECTIONS OR OTHER DETAILS ARE NOT INDICATED, FOLLOW THE RECOMMENDATIONS IN THE MANUAL OF WOOD FRAME CONSTRUCTION, BY THE AFPA.
- SHOP DRAWINGS SHOWING ALL SECTIONS, DETAILS, AND MATERIAL SPECIFICATIONS NECESSARY FOR THE PROPER INSTALLATION AND CONNECTION OF ALL MANUFACTURER'S WOOD PRODUCTS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION AND INSTALLATION.
- ALL WOOD FRAMING, TIMBERS, AND ENGINEERED LUMBER THAT IS EXPOSED TO VIEW SHALL BE VOID OF ANY STAMPS OR MARKINGS. PROVIDE CERTIFICATIONS IN LIEU OF STAMPED LUMBER

PRE–ENGINEERED WOOD ROOF TRUSSES:

- DESIGN AND INSTALL TRUSSES AND CONNECTORS IN ACCORDANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS AS WELL AS ANSI/TPI 1–LATEST EDITION, AS PUBLISHED BY THE TRUSS PLATE INSTITUTE, INC.
- INSTALL TEMPORARY AND PERMANENT BRACING OF WOOD TRUSSES IN ACCORDANCE WITH MANUFACTURERS DESIGN, BCSI 1, "BUILDING COMPONENT SAFETY INFORMATION", AND DSB–LATEST EDITION, PUBLISHED BY THE TRUSS PLATE INSTITUTE (TPI), INC AND THE WOOD TRUSS COUNCIL OF AMERICA (WTCA).
- ALL TRUSS MEMBERS SHALL BE DESIGNED AND SIZED (INCLUDING GRADE AND SPECIES) AS REQUIRED TO SUPPORT THE LOADS INDICATED ON THE DRAWINGS (INCLUDING DEAD, LIVE, WIND, UPLIFT, AND MECHANICAL LOADS SUCH AS SPRINKLERS AND ROOF TOP UNITS). (19% MAX MOISTURE CONTENT IN USE).
- TRUSS TO TRUSS AND TRUSS TO HEADER CONNECTIONS AND HARDWARE SHALL BE DESIGNED AND PROVIDED BY THE TRUSS MANUFACTURER.
- SUBMIT TO ARCHITECT/ENGINEER, PRIOR TO FABRICATION, COMPLETE SHOP DRAWINGS FOR ALL TRUSSES. SHOP DRAWINGS SHALL INCLUDE STRESS DIAGRAMS, MEMBER GRADES AND SIZES, SIZE AND LOCATION OF ALL CONNECTOR PLATES, SIZE AND LOCATION OF ALL TEMPORARY BRACING, PERMANENT TRUSS BRIDGING AND MEMBER BRACING, DATA RELATIVE TO PREFABRICATED HANGERS FOR TRUSS TO TRUSS AND TRUSS TO HEADER CONNECTIONS, DESIGN COMPUTATIONS AND ERECTION PLANS.
- REPRINTS OF CONTRACT DRAWINGS ARE NOT ACCEPTABLE. DESIGN COMPUTATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT. ONLY SHOP DRAWINGS BEARING THE STAMP OF THE ARCHITECT SHALL BE USED FOR FABRICATION AND ERECTION.
- TEMPORARY MEMBER BRACING, PERMANENT TRUSS BRIDGING, WEB COMPRESSION MEMBER BRACING ETC., SHALL BE AS REQUIRED BY THE TRUSS MANUFACTURER'S DESIGN, AND SHALL BE INSTALLED BY CONTRACTOR IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL THE TRUSSES ARE FULLY INSTALLED, PERMANENTLY BRACED AND SHEATHED AND ALL TRUSSES HAVE BEEN SECURELY ATTACHED TO THE SUPPORTS PER THE CONTRACT DOCUMENTS AND THE TRUSS MANUFACTURER'S RECOMMENDATIONS.
- DO NOT PROCEED WITH ROOF CONSTRUCTION UNTIL ALL TEMPORARY BRACING IS SECURELY AND PROPERLY IN PLACE AND HAS BEEN REVIEWED BY THE CONSTRUCTION INSPECTOR.
- PLACE PLYWOOD ROOF SHEATHING IN STACK HEIGHTS AND LOCATIONS ONLY AS DESCRIBED IN THE TRUSS MANUFACTURERS INSTALLATION LITERATURE AND PER THE TPI REFERENCES NOTED.
- PROVIDE ALL TRUSS FASTENERS AND HURRICANE CLIPS PER THE CONTRACT DOCUMENTS AND THE TRUSS MANUFACTURER'S RECOMMENDATIONS.
- OWNER SHALL EMPLOY AN INDEPENDENT INSPECTION AGENCY TO VISUALLY INSPECT TRUSSES BEFORE AND AFTER ERECTION. INSPECTION AGENCY SHALL CERTIFY THAT THE TRUSSES, CONNECTIONS AND BRACING HAVE BEEN INSTALLED IN COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.



gant-brunnett
ARCHITECTS

3700 Koppers Street, Suite 300
Baltimore, Maryland 21227-1044
Telephone Number: 410-234-8444



CARROLL ENGINEERING, INC.

215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423
WWW.CEENGINEERING.COM

SEAL

PROFESSIONAL CERTIFICATION 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. 20091, EXPIRATION DATE 12/31/2026.

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

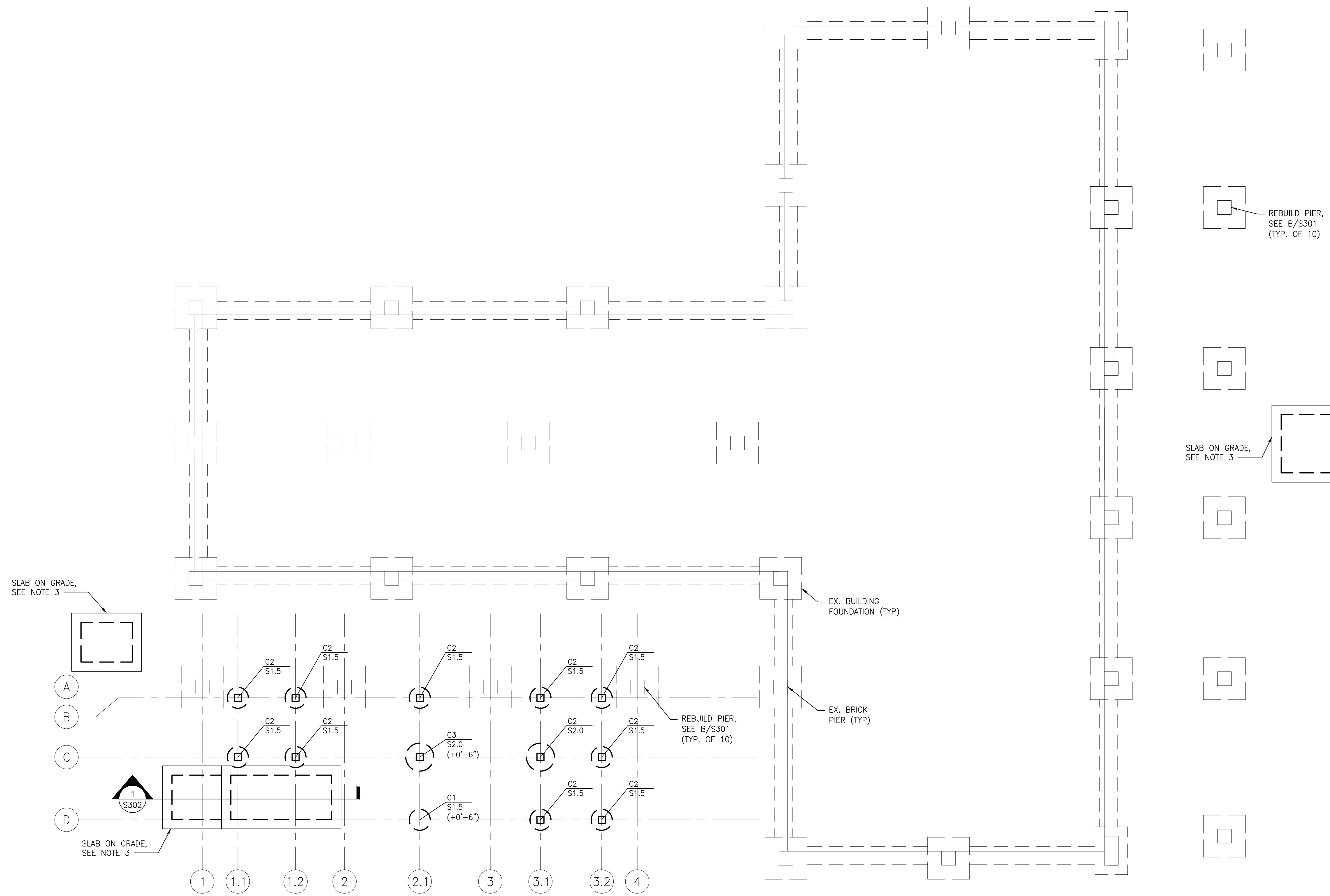
DATE: 9–25–2023

	APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS NOTED
	CHIEF ENGINEER	PROJECT MANAGER	DRAWN BY: DCD
	APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: SWB
	ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT OF WAY	SHEET NO.38 OF 65
			PROJECT NO. P535900
			CONTRACT NO. P535908

PORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

VISITOR CENTER GENERAL NOTES

S001



FOUNDATION PLAN
1/4" = 1'-0"

FOUNDATION PLAN NOTES:

- GRADE ELEVATION = 27.03' ± UNO. AND IS IN REFERENCE TO THE DATUM (0'-0")
- CONCRETE SONO TUBE FOUNDATION SIZES SHOWN THUS: SX.X, SEE SCHEDULE ON THIS SHEET. TYPICAL TOP OF FOOTINGS = +0'-4" ABOVE DATUM U.N.O.
- SLAB ON GRADE SHALL CONSIST OF 4" CONCRETE SLAB REINFORCED WITH 6"x6"-W2.1xW2.1 WWF OVER 4" MINIMUM COMPACTED STONE BASE.
- INDICATES EXISTING BRICK BUILDING FOUNDATION.
- COLUMN SIZES SHOWN THUS: CX. SEE SCHEDULE ON THIS SHEET FOR SIZE AND BASE PLATE INFORMATION.
- DIMENSIONS AND ELEVATIONS SHOWN TO EXISTING COLUMN LINES AND ELEMENTS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL OPENINGS, PENETRATIONS, SLOPES, ETC., WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, UNO.
- FOR ADDITIONAL INFORMATION AND REQUIREMENTS REFER TO THE GENERAL NOTES, TYPICAL DETAILS, AND SCHEDULES.
- CONTRACTOR SHALL SHORE EXISTING WALLS, LINTELS AND JOISTS AS REQUIRED PRIOR TO THE REMOVING EXISTING FRAMING AND INSTALLATION OF NEW SUPPORT FRAMING. REFER TO ARCHITECTURAL DRAWINGS, AND GENERAL NOTES FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- ALL EXTERIOR WOOD TO BE PRESSURE TREATED.

FOOTING SCHEDULE			
MARK	SIZE	DEPTH	REINF.
S1.5	1'-6" DIA.	2'-6"	(8) #5 BARS VERTICAL
S2.0	2'-0" DIA.	2'-6"	(8) #6 BARS VERTICAL

COLUMN SCHEDULE		
MARK	COLUMN	BASEPLATE
C1	NO POST	SIMPSON ABU66Z STAINLESS STEEL POST BASE w/ (1) 5/8" DIA. ANCHOR BOLT (6" MIN. EMBED.), SEE A/S302
C2	6" SQ. POST	SIMPSON ABA66Z STAINLESS STEEL POST BASE w/ (1) 5/8" DIA. ANCHOR BOLT (6" MIN. EMBED.), SEE B/S302
C3	6" SQ. POST	SIMPSON ABA66Z STAINLESS STEEL POST BASE w/ (1) 5/8" DIA. ANCHOR BOLT (6" MIN. EMBED.), SEE C/S302

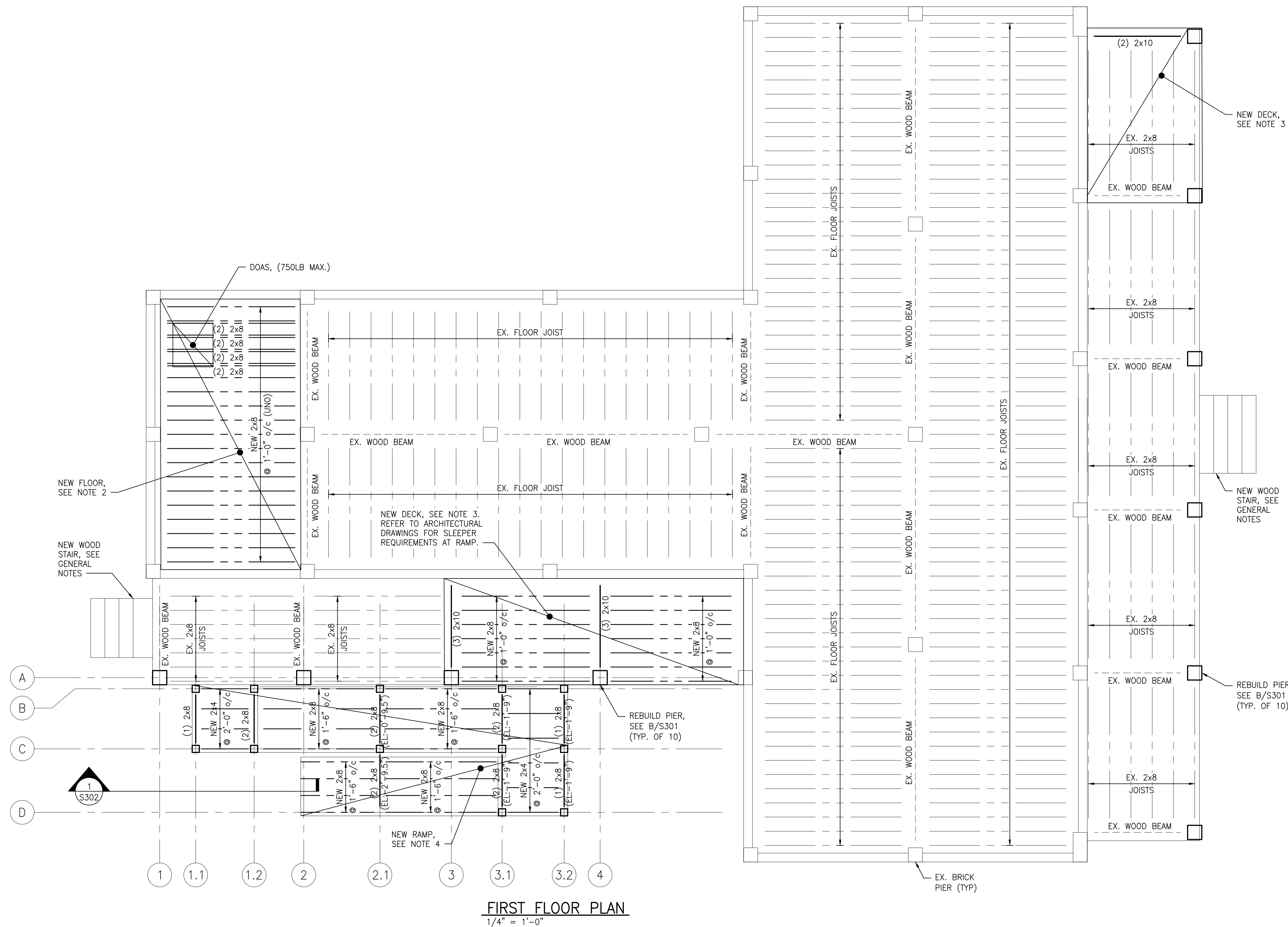
gant-brunnett
ARCHITECTS
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227-1044
Telephone Number: 410-234-8444

CARROLL ENGINEERING, INC.
215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423
WWW.CEENGINEERING.COM

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PROFESSIONAL CERTIFICATION 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. 20209, EXPIRATION DATE 06/30/25.

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023	
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE
△				CHIEF ENGINEER	
				PROJECT MANAGER	
				ASSISTANT CHIEF ENGINEER	
				CHEF, RIGHT OF WAY	

SCALE: AS NOTED	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122
DRAWN BY: DCD	
CHECKED BY: SWB	
SHEET NO. 39 OF 65	VISITOR CENTER FOUNDATION PLAN
PROJECT NO. P535900	
CONTRACT NO. P535908	S101



FIRST FLOOR PLAN
1/4" = 1'-0"

FIRST FLOOR PLAN NOTES:

- ELEVATION OF TOP OF DECK = +30.03' ± UNO. TOP OF WOOD BEAM ELEVATION SHOWN THUS = (+X'-X") AND IS IN REFERENCE TO THE DATUM (0'-0").
- NEW FLOOR CONSTRUCTION SHALL BE T&G, GROUP I, EXPOSURE 1, DECK WITH PANEL I.D. 48/24. ATTACH SHEATHING TO FRAMING WITH 8d NAILS AT 6" o/c AT PERIMETER/PANEL EDGE AND AT 12" o/c AT INTERIOR REGIONS.
- NEW DECK CONSTRUCTION SHALL BE T&G TO MATCH HISTORICAL DECK BOARDS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- NEW RAMP CONSTRUCTION SHALL BE PRESSURE TREATED 5/4 x 6" WOOD DECK. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- DIMENSIONS AND ELEVATIONS SHOWN TO EXISTING COLUMN LINES AND ELEMENTS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL OPENINGS, PENETRATIONS, SLOPES, ETC., WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, UNO.
- FOR ADDITIONAL INFORMATION AND REQUIREMENTS REFER TO THE GENERAL NOTES, TYPICAL DETAILS, AND SCHEDULES.
- ALL EXTERIOR WOOD TO BE PRESSURE TREATED.
- CONTRACTOR SHALL SHORE EXISTING WALLS, LINTELS AND JOISTS AS REQUIRED PRIOR TO THE REMOVING EXISTING FRAMING AND INSTALLATION OF NEW SUPPORT FRAMING. REFER TO ARCHITECTURAL DRAWINGS, AND GENERAL NOTES FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS AND SPECIAL SHAPES REQUESTED FOR NEW T&G BOARDS AND WOOD POSTS.

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gant-brunnett
ARCHITECTS
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227-1044
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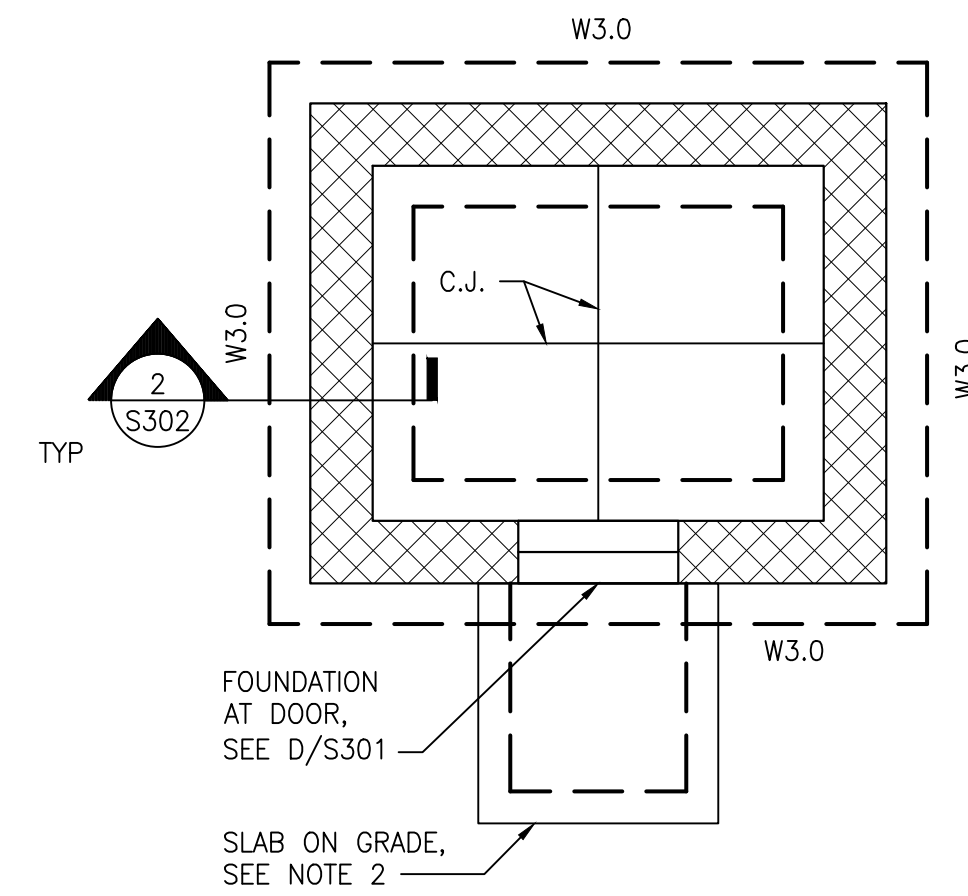
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215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423
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NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023
APPROVED	DATE	APPROVED	DATE	SCALE: AS NOTED
CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: DCD
APPROVED	DATE	APPROVED	DATE	CHECKED BY: SWB
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY		SHEET NO. 40 OF 65
				PROJECT NO. P535900
				CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122
VISITOR CENTER
FIRST FLOOR PLAN
S102

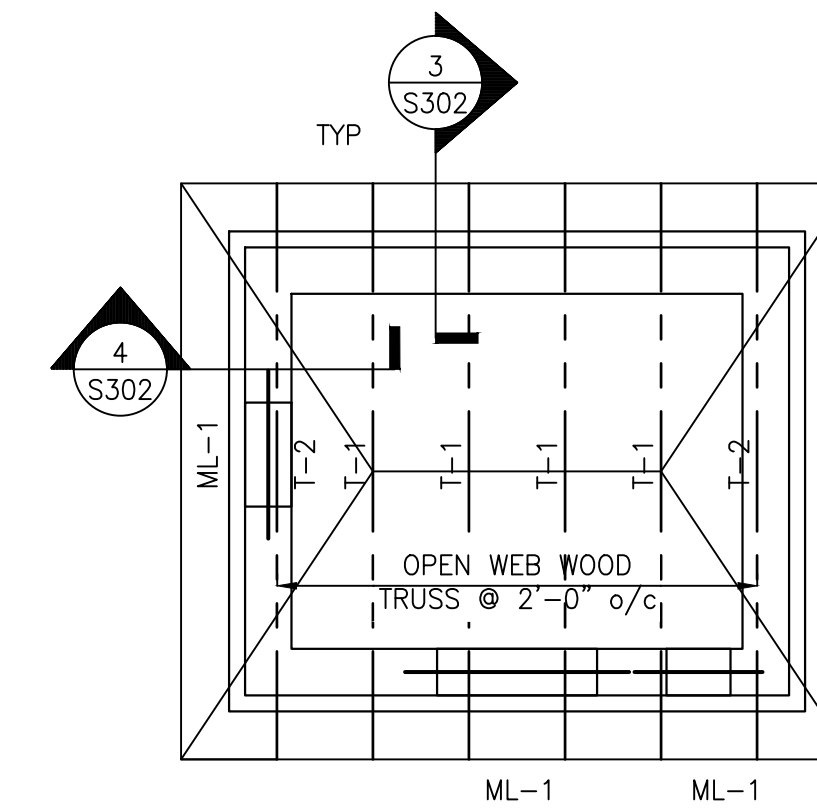


FOUNDATION / FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

FOUNDATION PLAN NOTES:

1. SLAB ON GRADE SHALL CONSIST OF 5" CONCRETE SLAB REINFORCED WITH 6"x6"-W2.1xW2.1 WWF OVER 15 MIL VAPOR RETARDER AND 6" MINIMUM COMPACTED STONE BASE.
2. SLAB ON GRADE SHALL CONSIST OF 4" CONCRETE SLAB REINFORCED WITH 6"x6"-W2.1xW2.1 WWF OVER 4" MINIMUM COMPACTED STONE BASE.
3. TOP OF NEW SLAB-ON-GRADE ELEVATION = 27.0 U.N.O. AND IS THE REFERENCE DATUM (0'-0") FOR THIS PROJECT.
4. WALL FOOTING SIZES SHOWN THUS: WX.0, CONTINUOUS WALL FOOTINGS SHOWN THUS WX.X, SEE SCHEDULE ON THIS SHEET. TYPICAL TOP OF INTERIOR FOOTINGS = -0'-8" UNO. TYPICAL TOP OF EXTERIOR FOOTINGS SHALL BE AT -2'-8" UNO.
5. CMU WALL SHALL BE 16" BLOCK WITH #5 @ 48" o/c AND AT EACH CORNER IN GROUTED CELLS FULL HEIGHT. PROVIDE 2-#5 FULL HT VERTICAL AT EACH SIDE OF ALL WALL OPENINGS. GROUT WALL SOLID AT REINFORCING.
6. SLAB-ON-GRADE CONTROL JOINTS SHALL BE SAWCUT AFTER CONCRETE HAS TAKEN INITIAL SET AND BEFORE CONCRETE SHRINKAGE STRESSES OCCUR.
7. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SLAB EDGES, OPENINGS, PENETRATIONS, SLOPES, RAISED OR DEPRESSED AREAS, CURBS, ETC., WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, UNO.
8. THE CONTRACTOR SHALL COORDINATE ALL UNDERSLAB UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, LOWER OR STEP TOP OF FOOTING ELEVATIONS AS REQUIRED TO MAINTAIN 2H:1V SLOPE FROM BOTTOM OF FOOTINGS TO BOTTOM OF UTILITY EXCAVATIONS. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
9. FOR ADDITIONAL INFORMATION AND REQUIREMENTS REFER TO THE GENERAL NOTES, TYPICAL DETAILS, AND SCHEDULES.

FOOTING SCHEDULE			
MARK	SIZE	DEPTH	REINF.
W3.0 (TYP.)	3'-0" CONT.	1'-0"	(4) #5 CONT. #4@48" o/c CROSSBARS



ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. OPEN WEB WOOD TRUSS BEARING ELEVATION SHOWN THUS = (+8'-11") AND IS IN REFERENCE TO THE DATUM (0'-0").
2. TYPICAL ROOF SHEATHING BEARING OVER WOOD TRUSSES SHALL BE 3/4" APA RATED T&G PLYWOOD SHEATHING, GROUP I, EXTERIOR, PANEL ID 48/24. ATTACH SHEATHING TO FRAMING WITH 8d NAILS AT 6" o/c AT PANEL EDGES AND 12" o/c AT INTERIOR REGIONS.
3. BRICK AND CMU WALL SHALL BE 8" BLOCK WITH #5 @ 48" o/c AND AT EACH CORNER IN GROUTED CELLS FULL HEIGHT. PROVIDE 2-#5 FULL HT VERTICAL AT EACH SIDE OF ALL WALL OPENINGS. GROUT WALL SOLID AT REINFORCING. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. NOTATIONS SHOWN ON PLAN INDICATE THE FOLLOWING:
 - ML-X LINTEL IMMEDIATELY BELOW OR WITHIN THIS LEVEL OF FRAMING, (SEE ARCHITECTURAL DRAWINGS AND SCHEDULE THIS SHEET).
5. PROVIDE UPLIFT CONNECTORS AT ALL ROOF TRUSS BEARING POINTS CAPABLE OF RESISTING ALL TRIBUTARY UPLIFT FORCES.
6. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS NOT SHOWN. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOF EDGES, OPENINGS, PENETRATIONS, SLOPES, RAISED OR DEPRESSED AREAS, CURBS, ROOF EQUIPMENT, ETC., WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, UNO.
7. FOR ADDITIONAL INFORMATION AND REQUIREMENTS REFER TO THE GENERAL NOTES, TYPICAL DETAILS, AND SCHEDULES.
8. ALL EXTERIOR WOOD TO BE PRESSURE TREATED.
9. PROVIDE DOUBLE TRUSSES AND HEADERS AT VENT OPENINGS. CONNECT HEADERS TO TRUSSES WITH JOIST HANGERS.

LINTEL SCHEDULE			
MARK	SIZE	COMMENTS	DETAILS
ML-1	8" CONT CMU BOND BEAM WITH (2) #5 BOTTOM BARS CONT. 2'-9" TO 6'-8" OPENINGS.	FOR CAVITY WALLS, USE (1) L6 X 6 X 5/16 LLV FOR VENEER.	

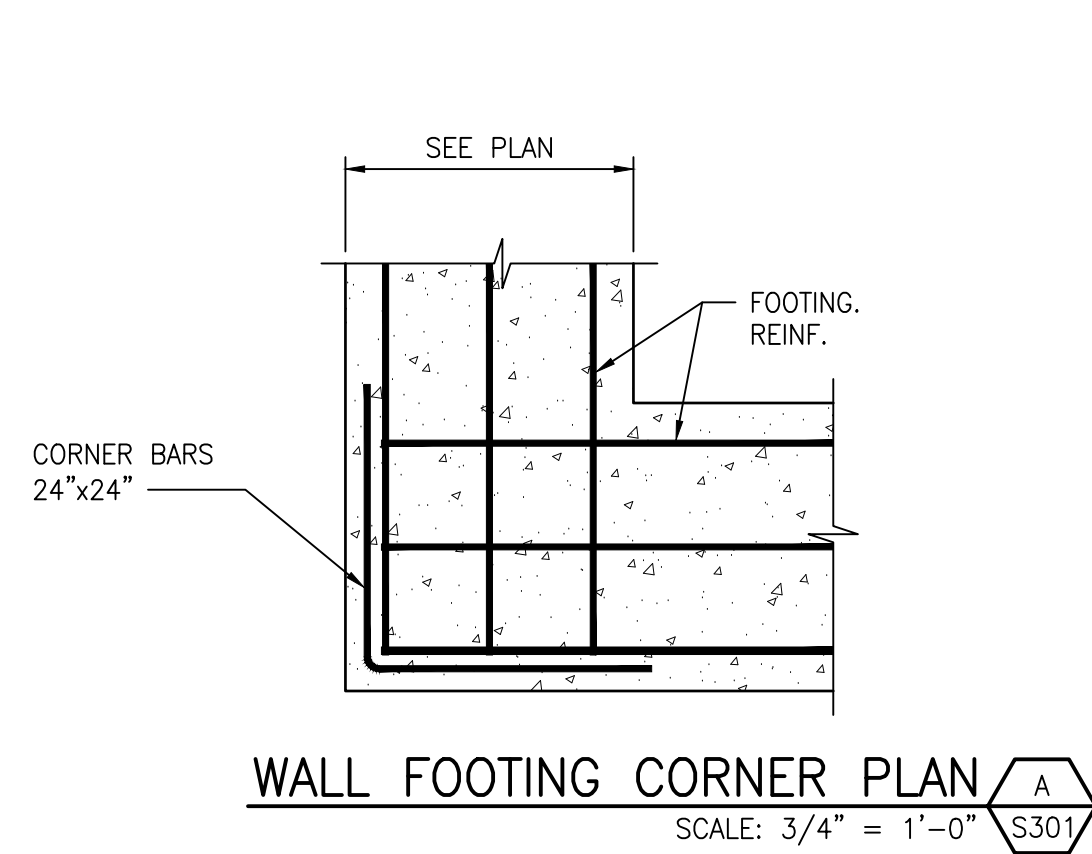
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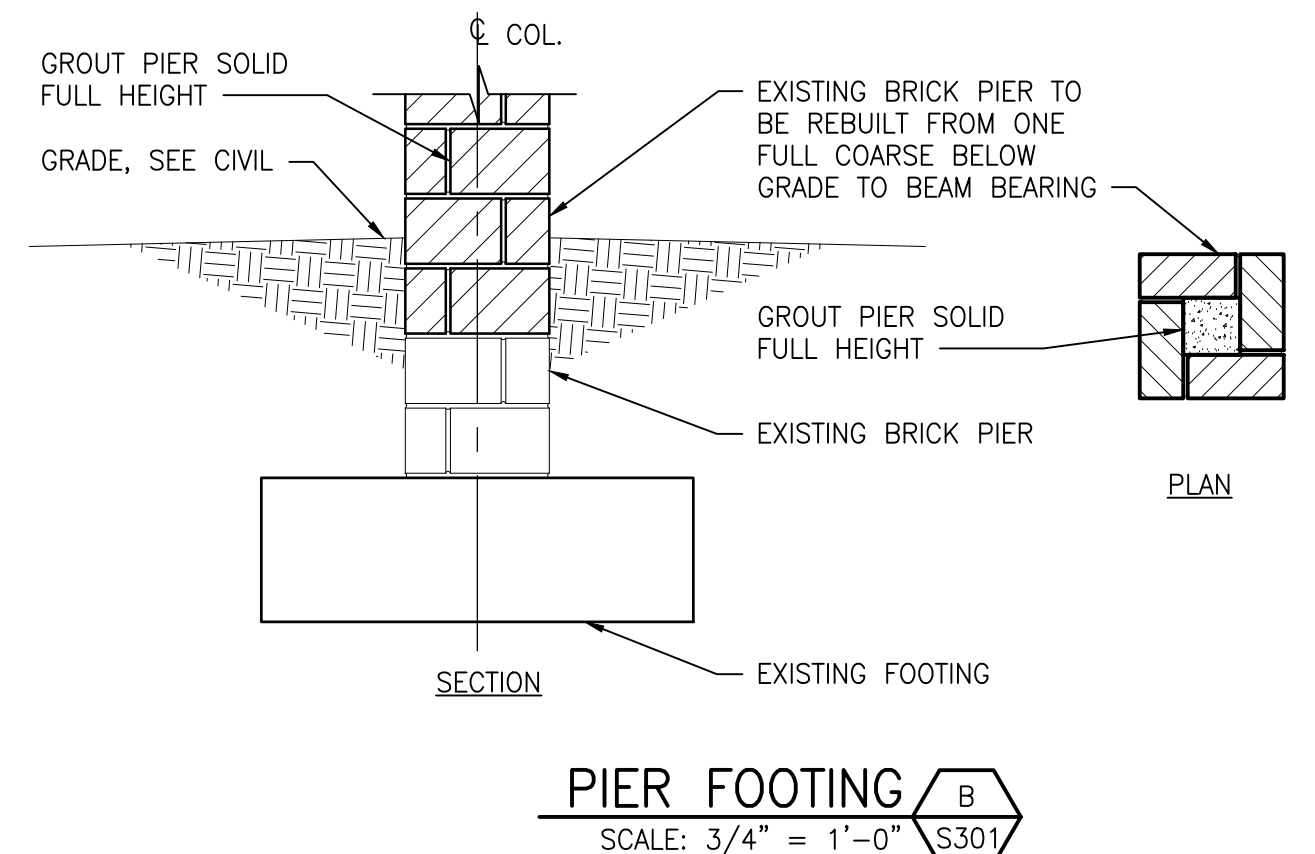
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023	
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE
△				APPROVED	DATE
				CHIEF ENGINEER	PROJECT MANAGER
				APPROVED	DATE
				ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT OF WAY

SCALE: AS NOTED	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122
DRAWN BY: DCD	
CHECKED BY: SWB	
SHEET NO. 42 OF 65	WATER TREATMENT SHED PLANS
PROJECT NO. P535900	
CONTRACT NO. P535908	S104



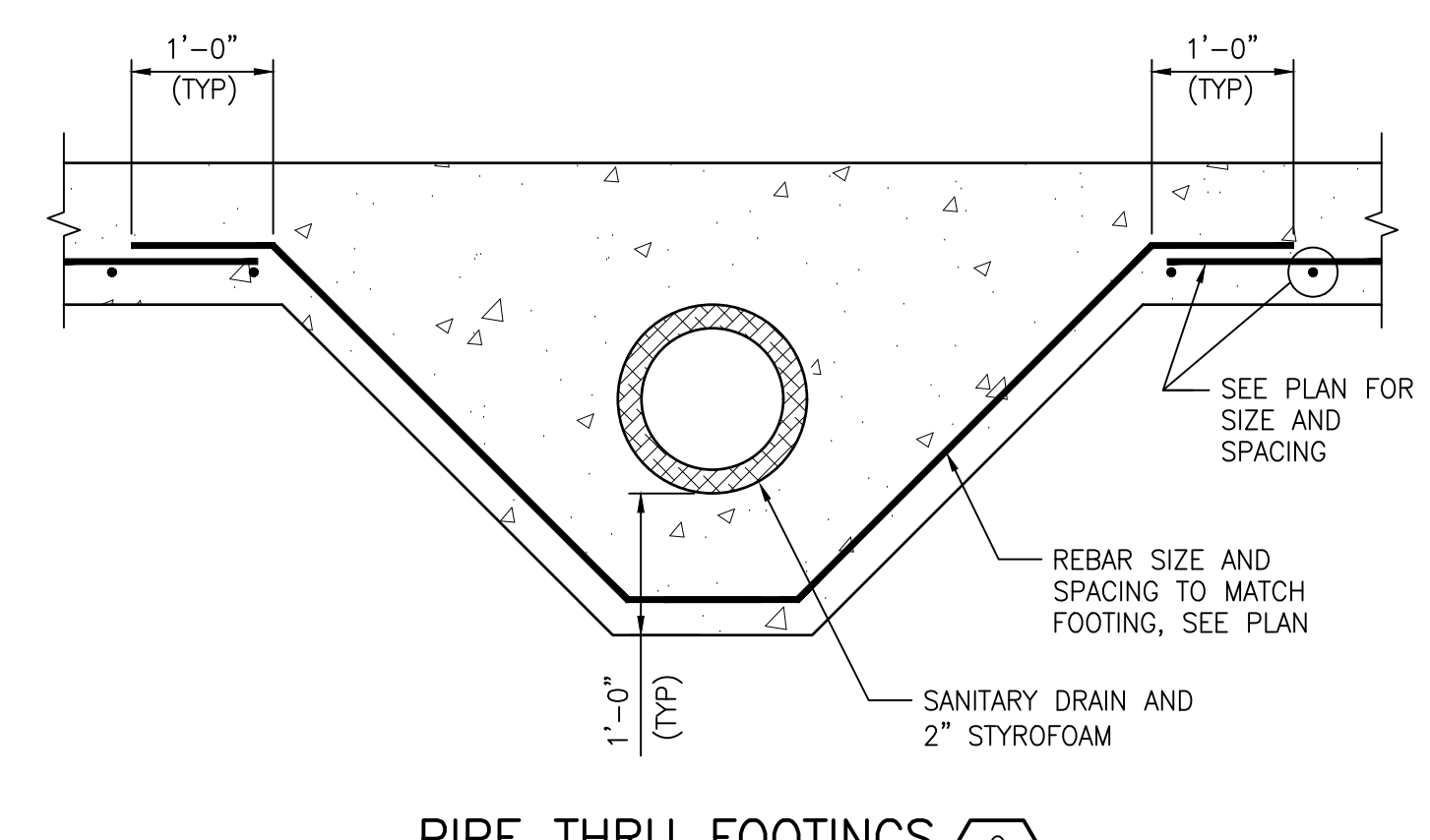
WALL FOOTING CORNER PLAN (A)
SCALE: 3/4" = 1'-0" S301

NOTE:
1. PROVIDE 24"x24" CORNER BARS AS SHOWN ABOVE OR BEND EACH INTERSECTING OUTSIDE BAR FOR A DISTANCE OF 20" AROUND CORNERS FOR EACH LAYER OF FOOTING REINFORCING. BAR TO BE SAME SIZE AS FOOTING REINFORCING. COLD BENDING IN THE FIELD IS ALLOWABLE.



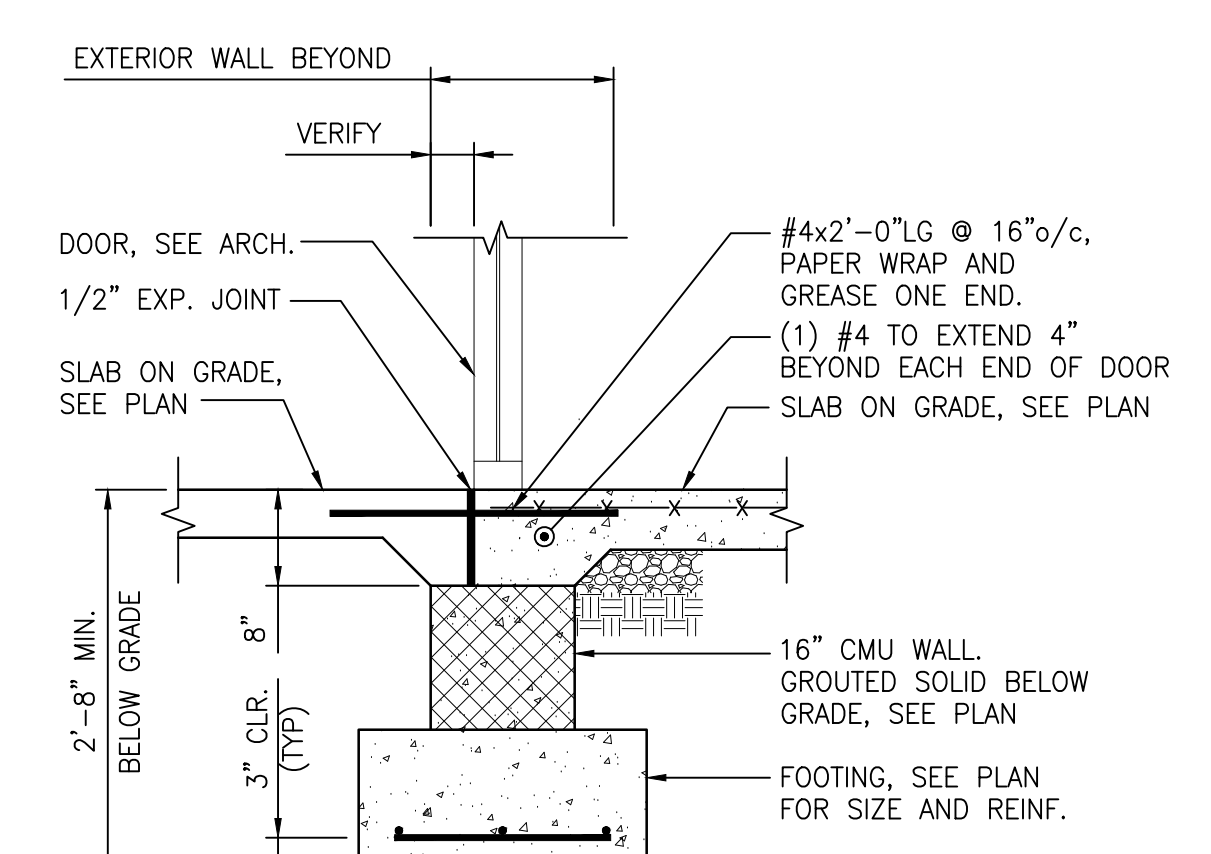
PIER FOOTING (B)
SCALE: 3/4" = 1'-0" S301

NOTE:
1. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION

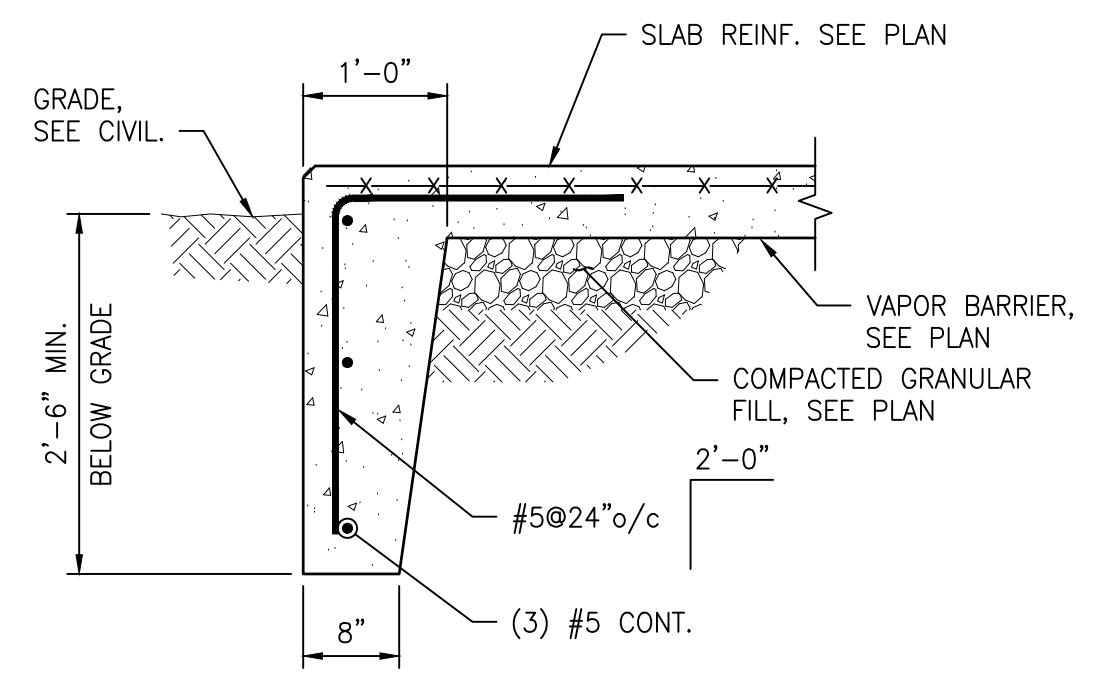


PIPE THRU FOOTINGS (C)
SCALE: 3/4" = 1'-0" S301

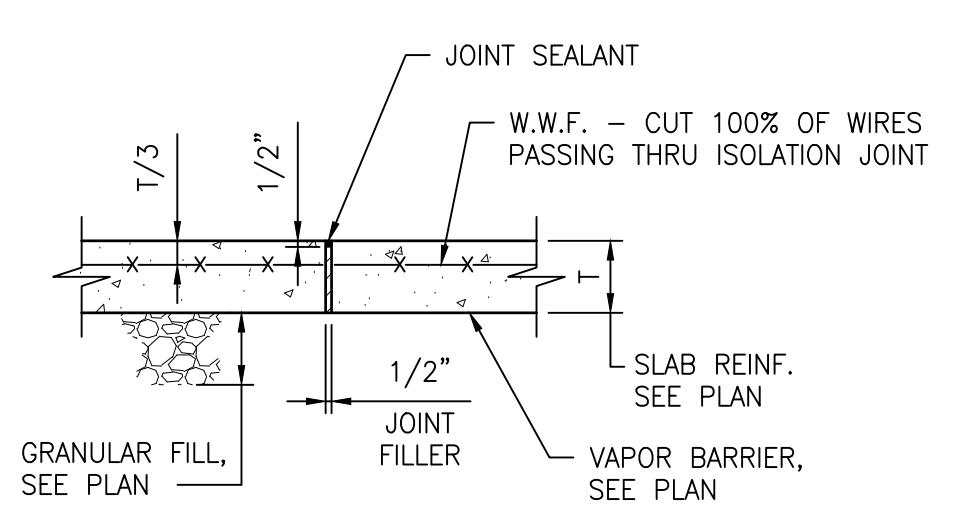
NOTE:
1. USE AS REQUIRED IN FIELD TO COORDINATE WITH MECHANICAL PENETRATIONS.



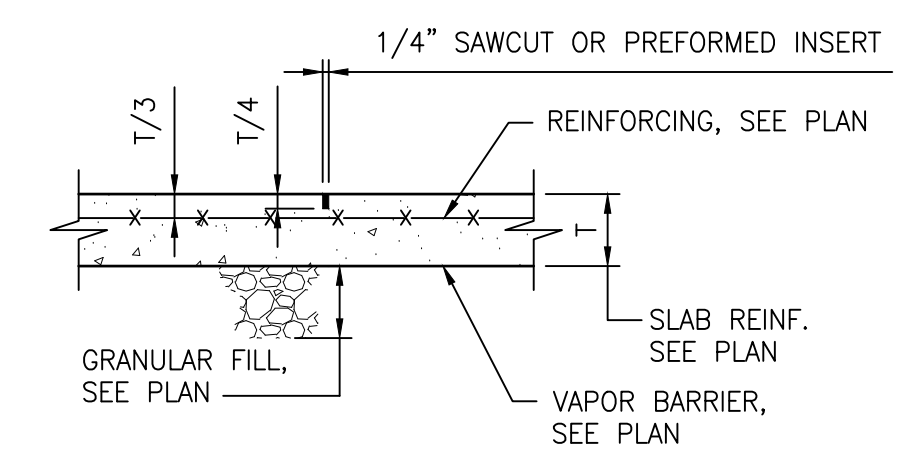
FOUNDATION AT ENTRANCE (D)
SCALE: 3/4" = 1'-0" S301



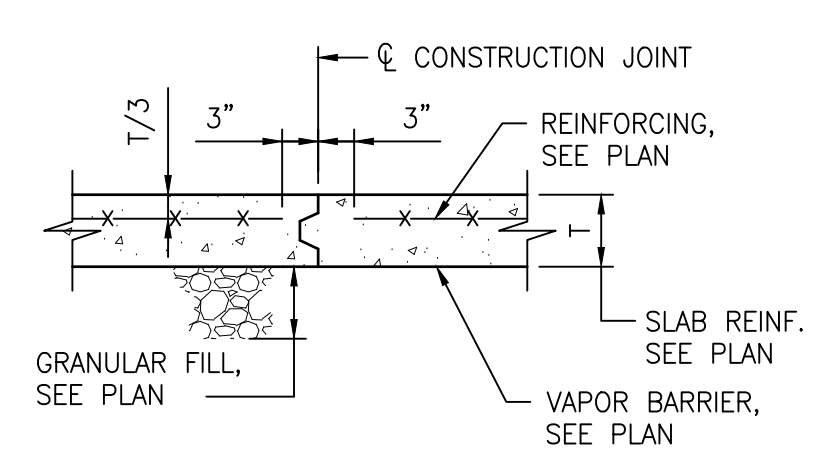
TURN-DOWN SLAB (E)
SCALE: 3/4" = 1'-0" S301



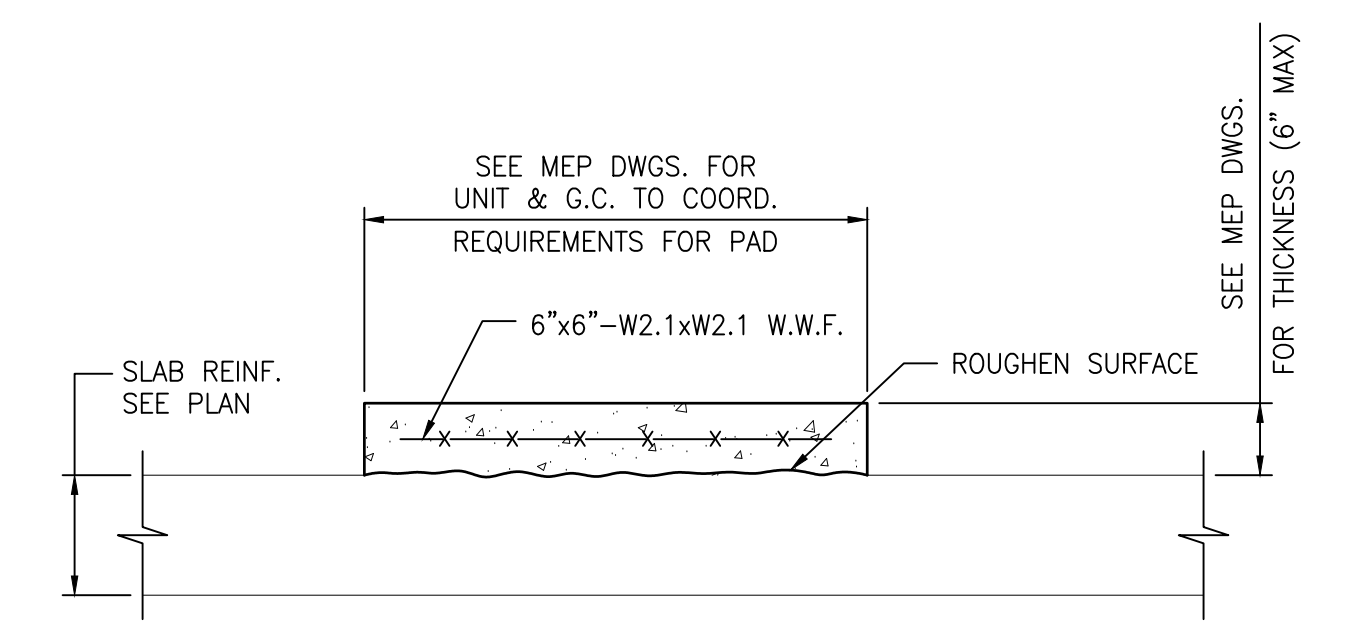
ISOLATION JOINT (F)
SCALE: 3/4" = 1'-0" S301



CONTROL JOINT (G)
SCALE: 3/4" = 1'-0" S301



CONSTRUCTION JOINT (H)
SCALE: 3/4" = 1'-0" S301



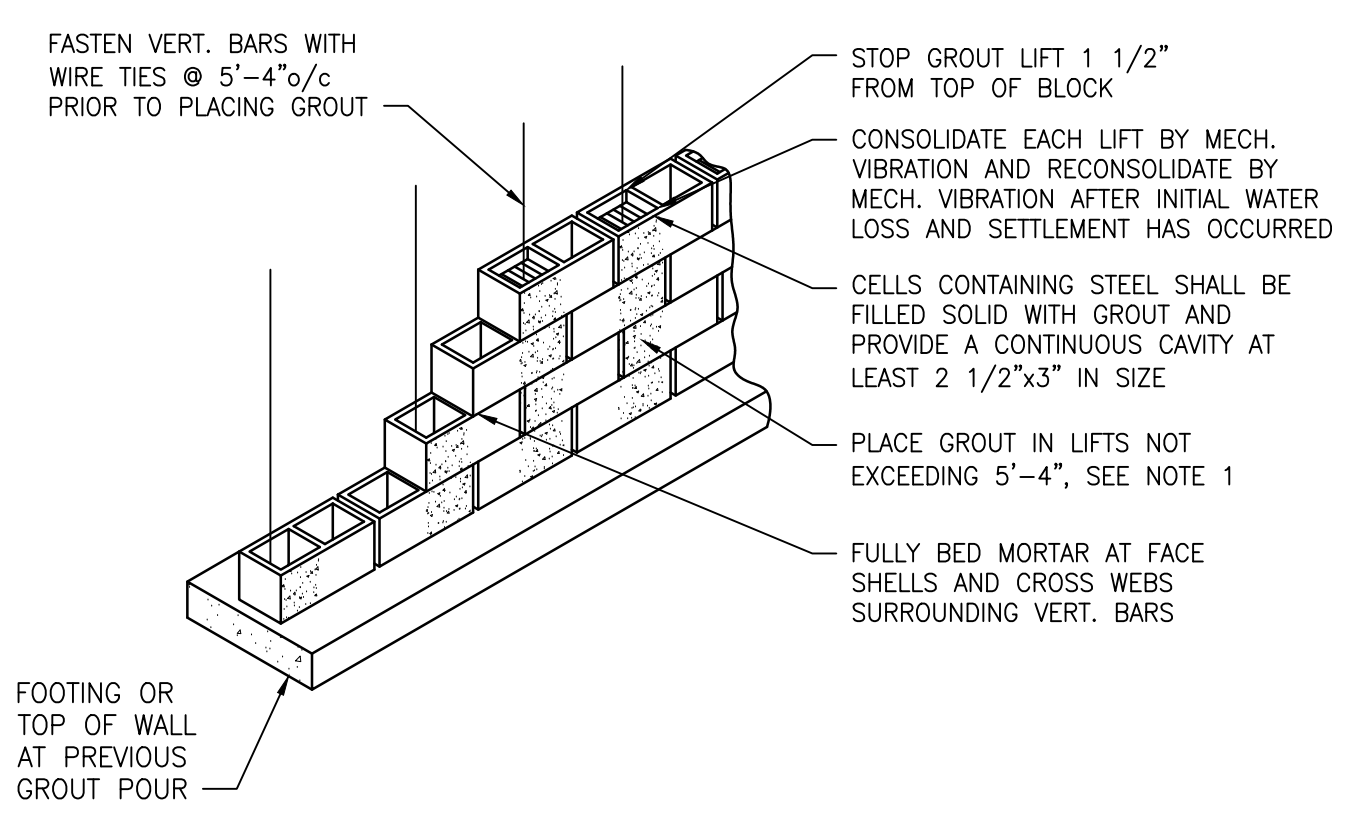
INTERIOR EQUIPMENT HOUSEKEEPING PAD (J)
SCALE: 3/4" = 1'-0" S301

NOTE:
1. ISOLATION JOINT SHALL CARRY THROUGH FULL DEPTH OF BASE SLAB AND TOPPING SLAB (IF REQUIRED).

NOTES:
1. CUT ALTERNATE WIRES CROSSING JOINT.
2. SAW-CUT CONTROL JOINTS ARE LOCATED ON PLAN.
3. SAW-CUTTING SHALL BE STARTED AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATE BEING DISLODGED BY THE SAW AND WHEN THE EDGES OF THE CUT DO NOT RAVEL.

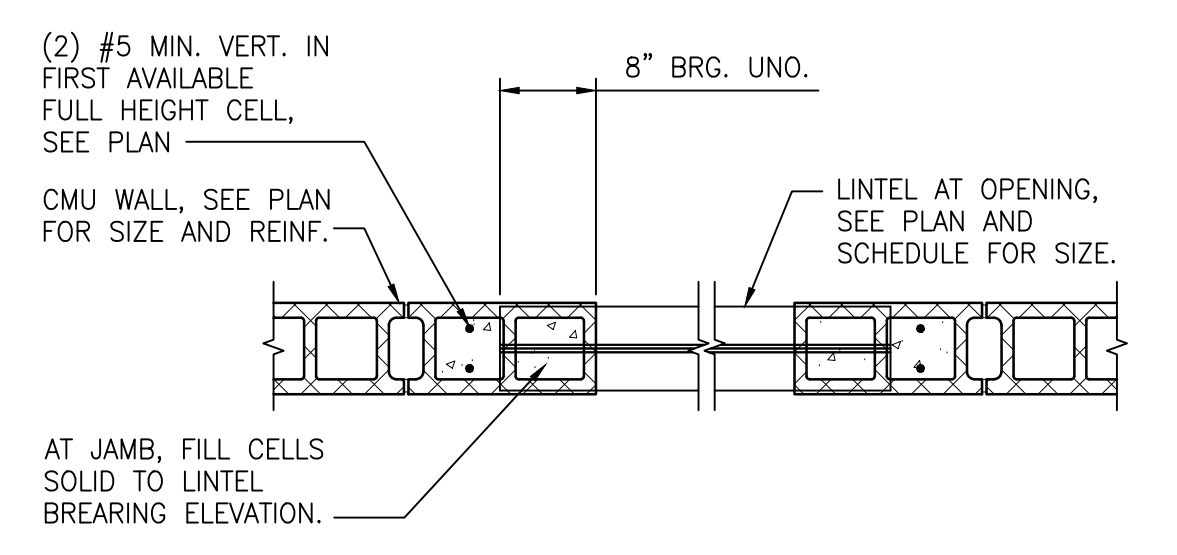
NOTE:
1. CONSTRUCTION JOINT AS NEEDED TO BE LOCATED IN LIEU OF CONTROL JOINTS AS INDICATED ON PLAN.

NOTE:
1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND DIMENSIONS.



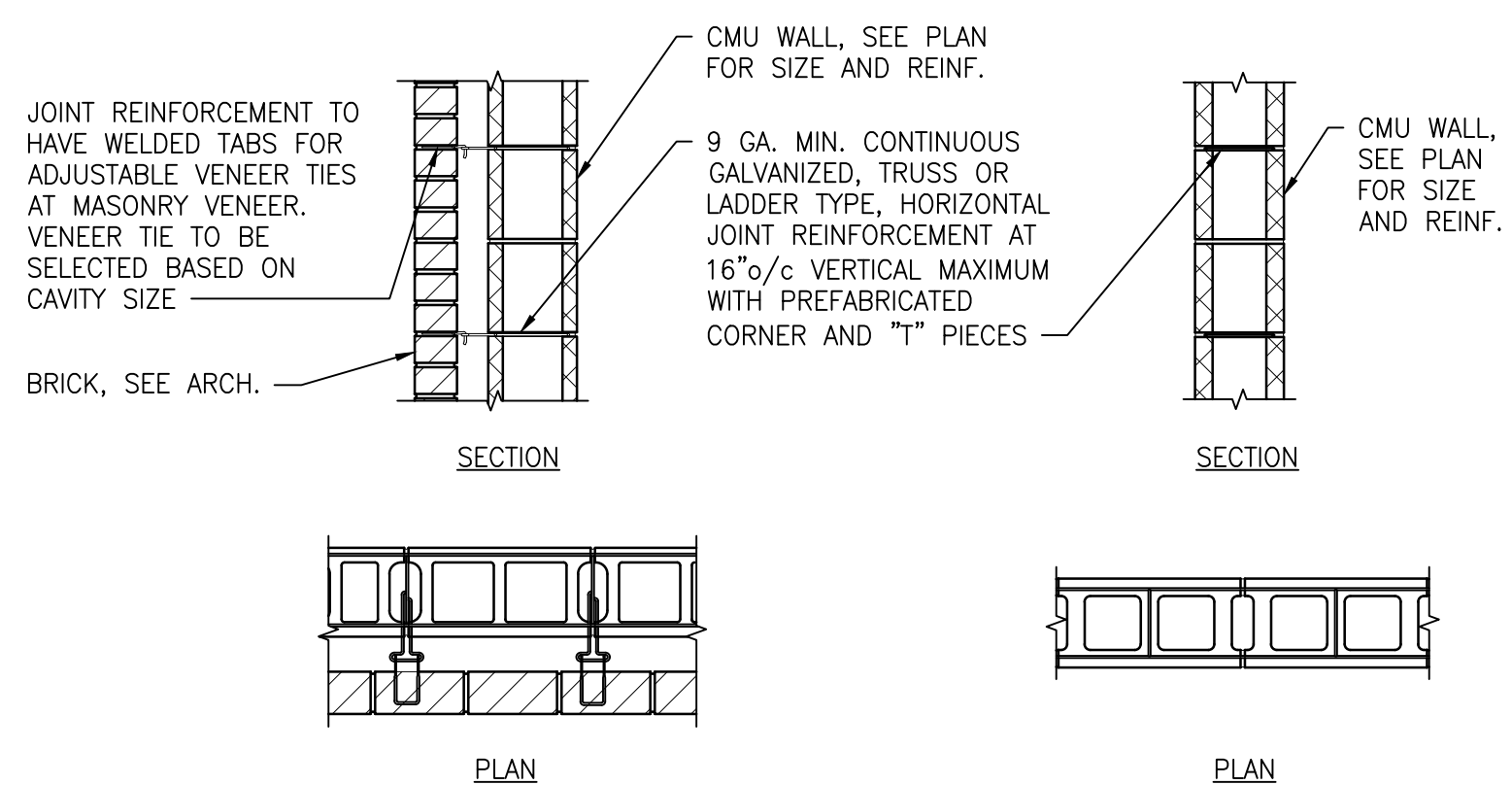
TYPICAL REINFORCED MASONRY CONSTRUCTION VERTICAL REINFORCING ONLY (K)
SCALE: 3/4" = 1'-0" S301

NOTE:
1. FOR POURS GREATER THAN 5'-4" SUBMIT FOR APPROVAL PROCEDURES FOR GROUT POURING PER THE REQUIREMENTS OF TMS 602 LATEST EDITION.



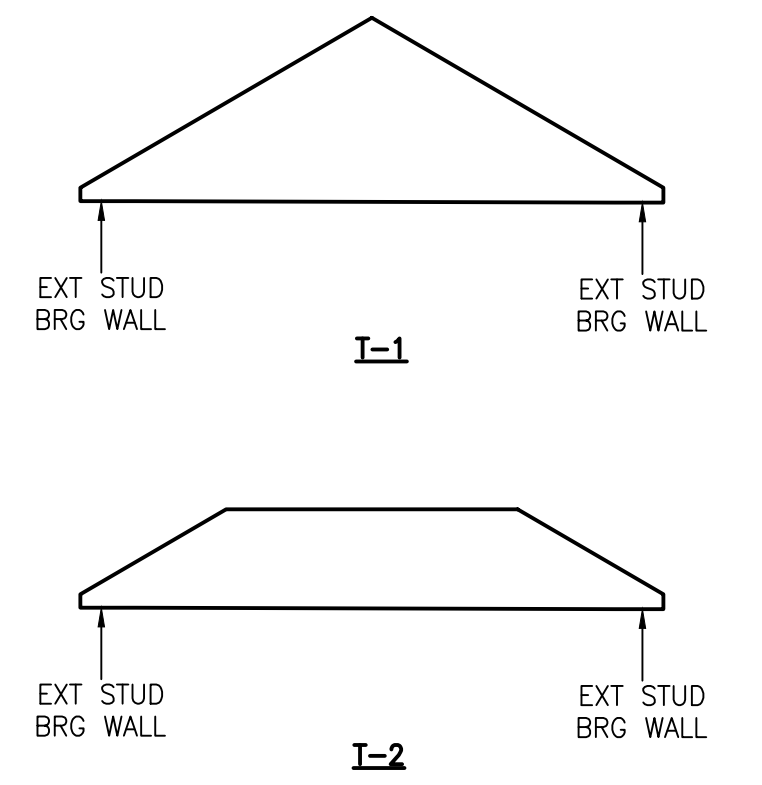
TYPICAL MASONRY WALL AT LINTEL (L)
SCALE: 3/4" = 1'-0" S301

NOTE:
1. APPLIES TO ALL OPENINGS IN EXTERIOR AND/OR LOAD BEARING WALLS UNLESS OTHERWISE NOTED ON PLAN. REINFORCEMENT SHOWN ON PLAN SHALL SUPERCEDE THIS DETAIL. WHERE REINFORCEMENT IS CALLED OUT ON PLAN BARS ARE TO BE FULL HEIGHT EXCEPT BARS AT LINTEL BEARING CELLS TERMINATE ABOVE AND BELOW THE LINTEL.



TYPICAL MASONRY JOINT REINFORCEMENT (M)
SCALE: 3/4" = 1'-0" S301

NOTE:
1. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



ROOF TRUSS LOADING DIAGRAMS (N)
SCALE: NOT TO SCALE S301

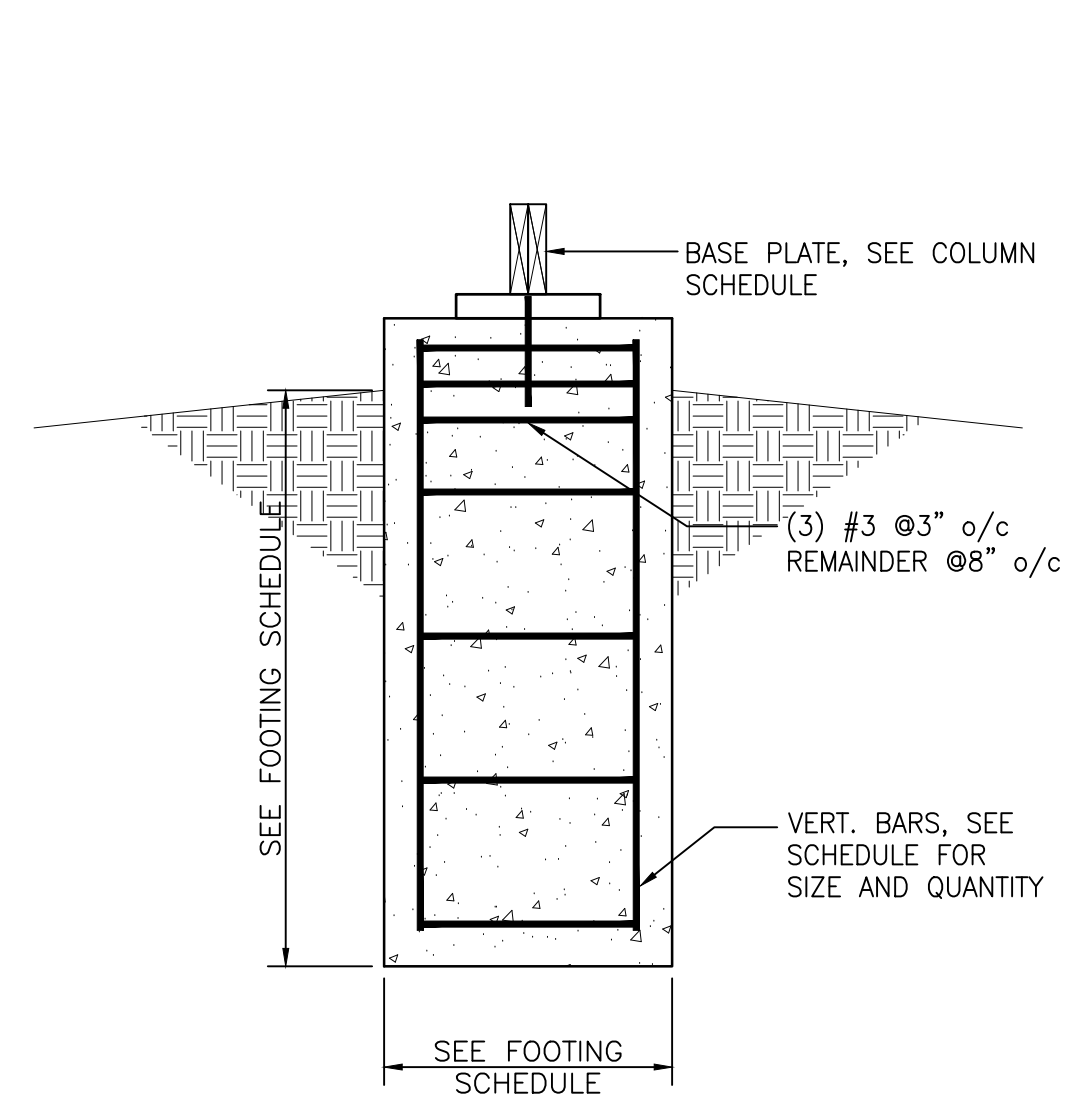
TRUSS LOADING

1. CHORD LIVE = 30 PSF
2. TOP CHORD DEAD = 12 PSF
3. BOTTOM CHORD DEAD = 8 PSF
4. WIND DESIGN TRUSSES FOR ALL ASCE 7 WIND LOADS
5. SEE PLAN FOR ADDITIONAL MECHANICAL UNIT LOADING
6. L/360 LIVE LOAD DEFLECTION
L/240 TOTAL LOAD DEFLECTION

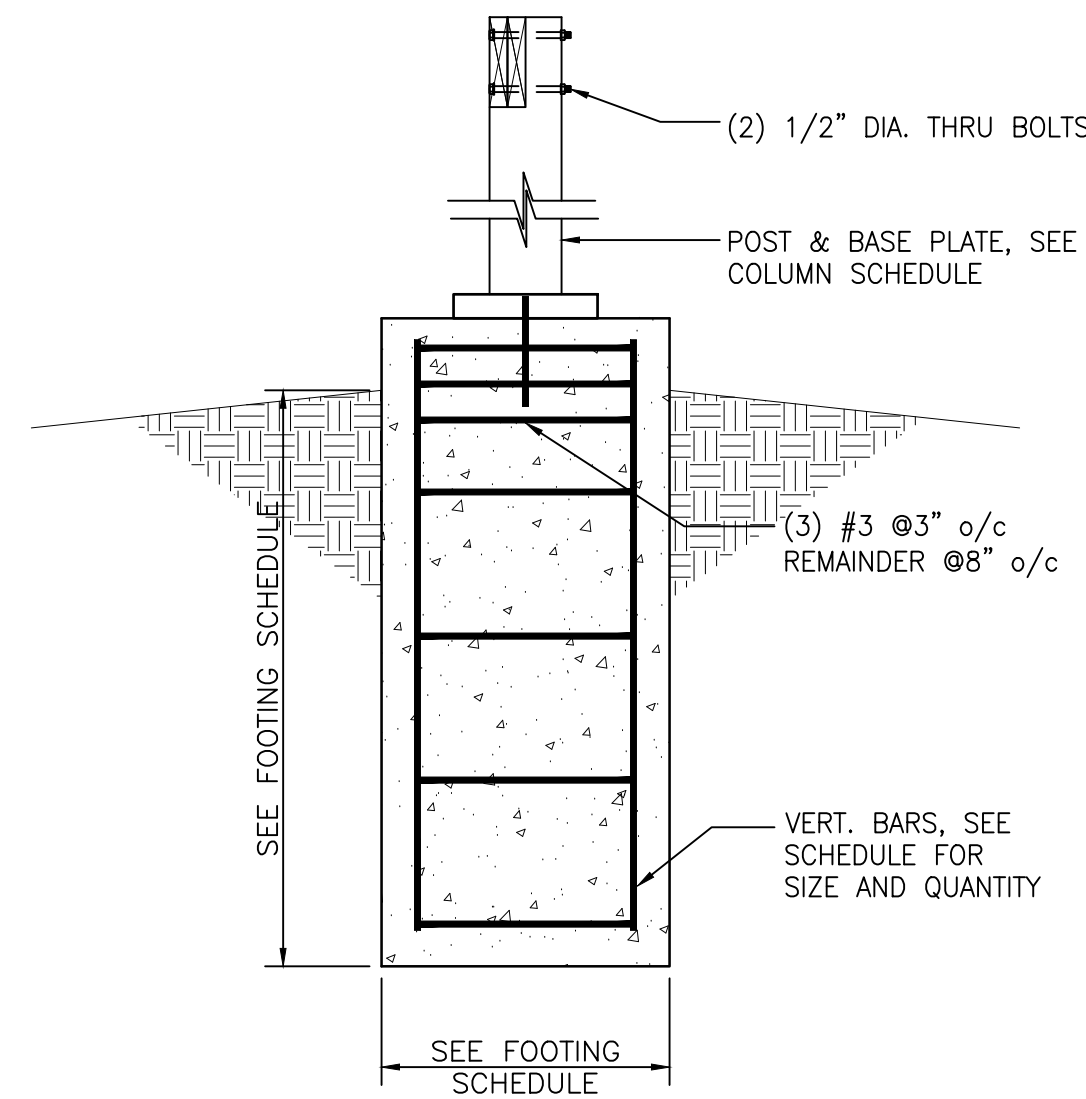
NOTES:
1. SEE GENERAL NOTES FOR ADDITIONAL WOOD TRUSS REQUIREMENTS.
2. PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED FOR LOADS AND DIMENSIONS SPECIFIED ON THE DRAWINGS. ALL LOAD COMBINATIONS SHALL BE CONSIDERED BY THE TRUSS MANUFACTURER IN THE DESIGN OF THE TRUSSES. THE TRUSS CONFIGURATIONS SHOWN ON THE DRAWINGS ARE SCHEMATIC IN NATURE. THEY ARE INTENDED TO SHOW SHAPES, DIMENSIONS AND LOADS. THE ACTUAL DESIGN OF THE TRUSS INCLUDING THE WEB CONFIGURATIONS AND LATERAL BRACING IS BY THE TRUSS MANUFACTURER.
3. SHOP DRAWINGS AND CALCULATIONS FOR ALL TRUSSES SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL BEFORE FABRICATION BEGINS.
4. TRUSS MANUFACTURER TO COORDINATE FINAL ROOF DEAD LOADS WITH BUILDER PRIOR TO TRUSS FABRICATION.

NO.	DESCRIPTION	BY	DATE

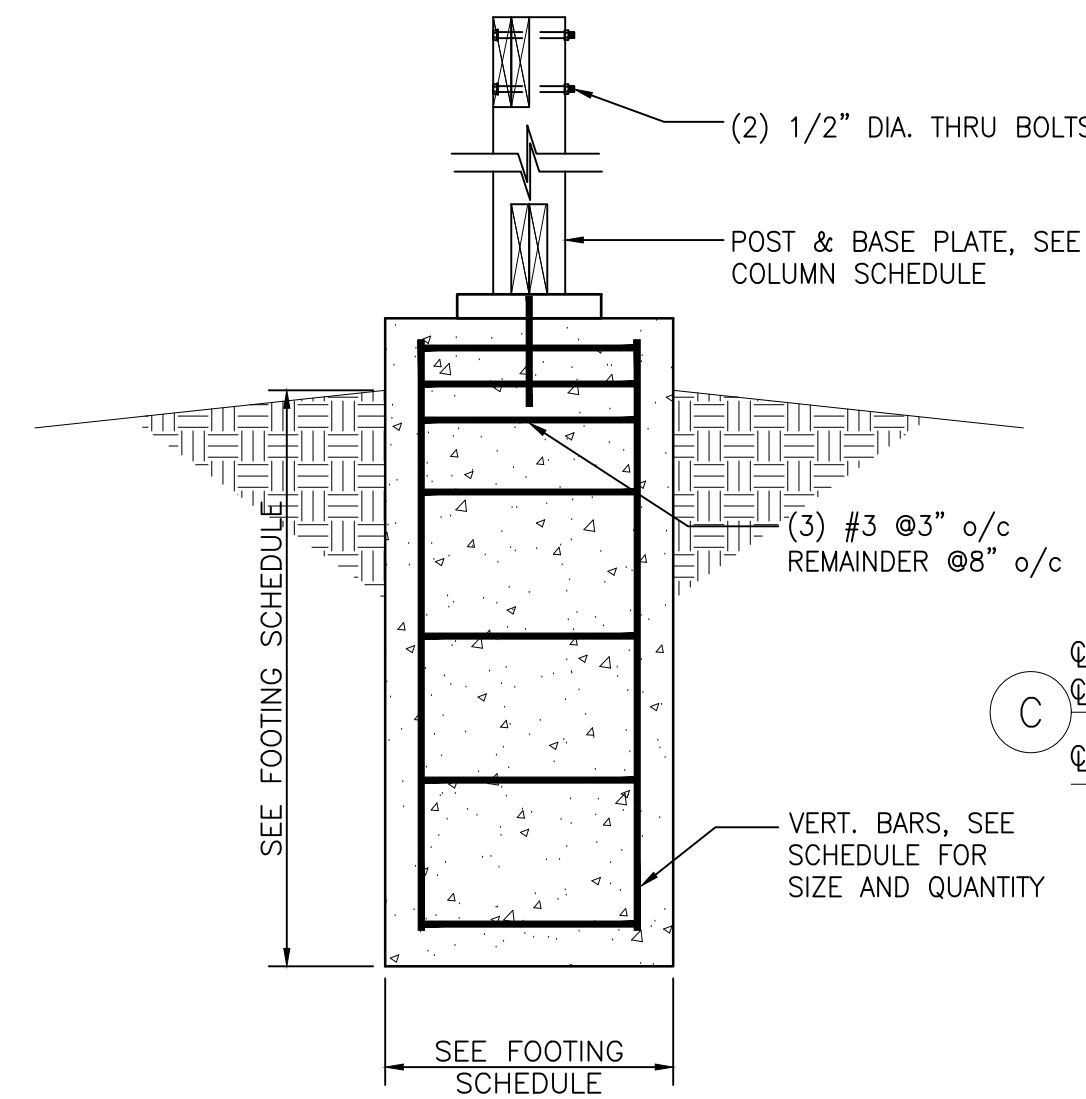
APPROVED	DATE	APPROVED	DATE



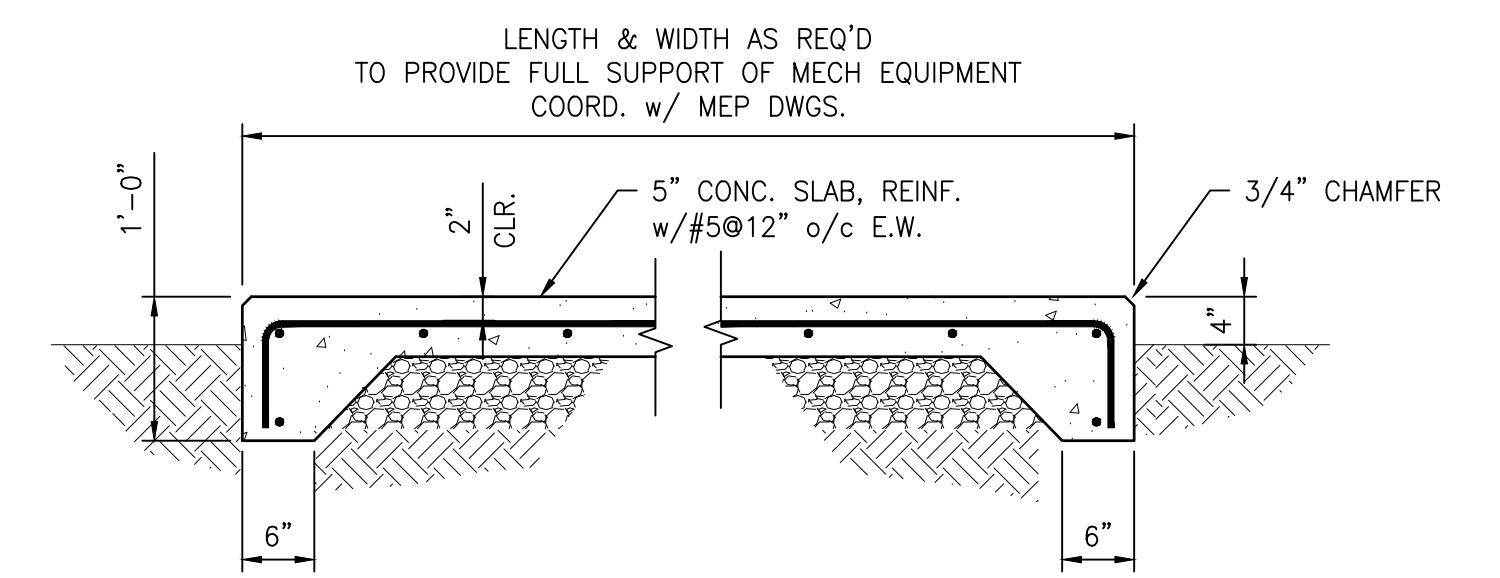
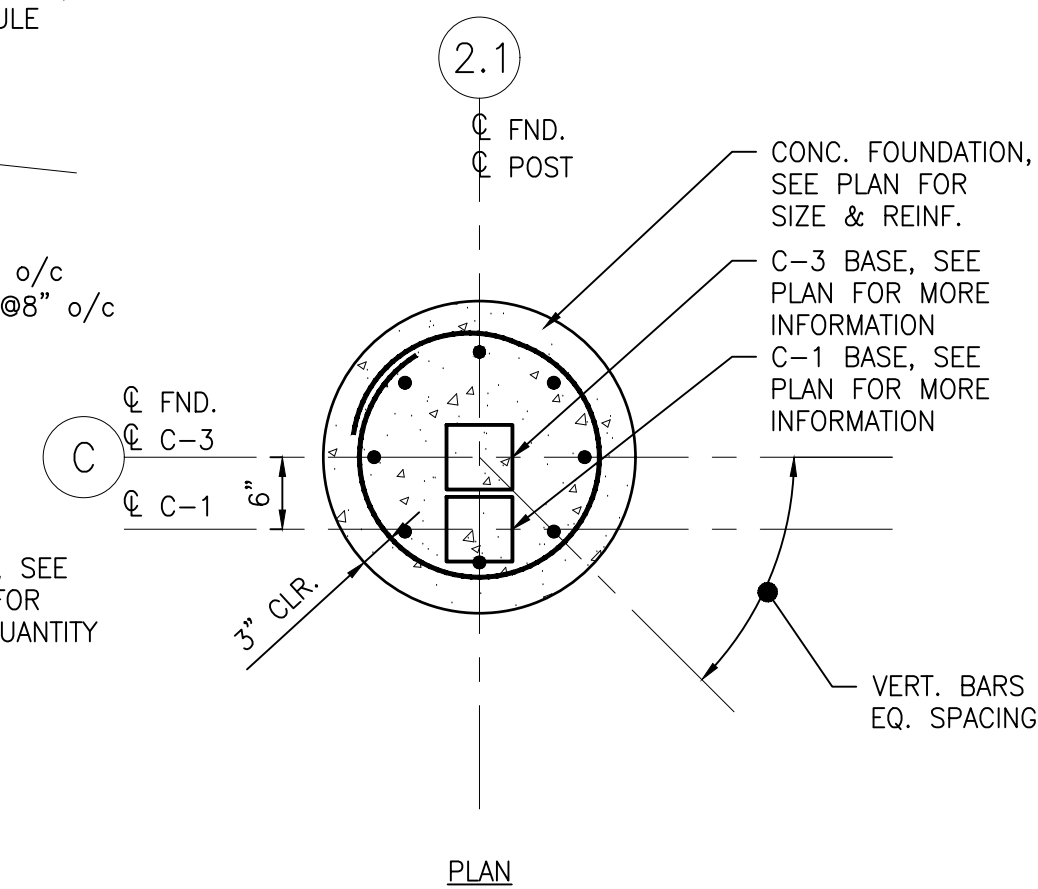
C1 AT FOUNDATION A
SCALE: NOT TO SCALE S302



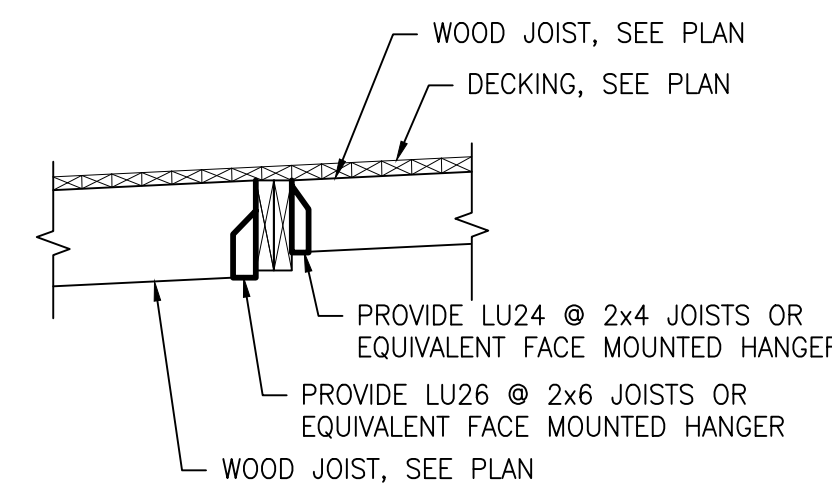
C2 AT FOUNDATION B
SCALE: NOT TO SCALE S302



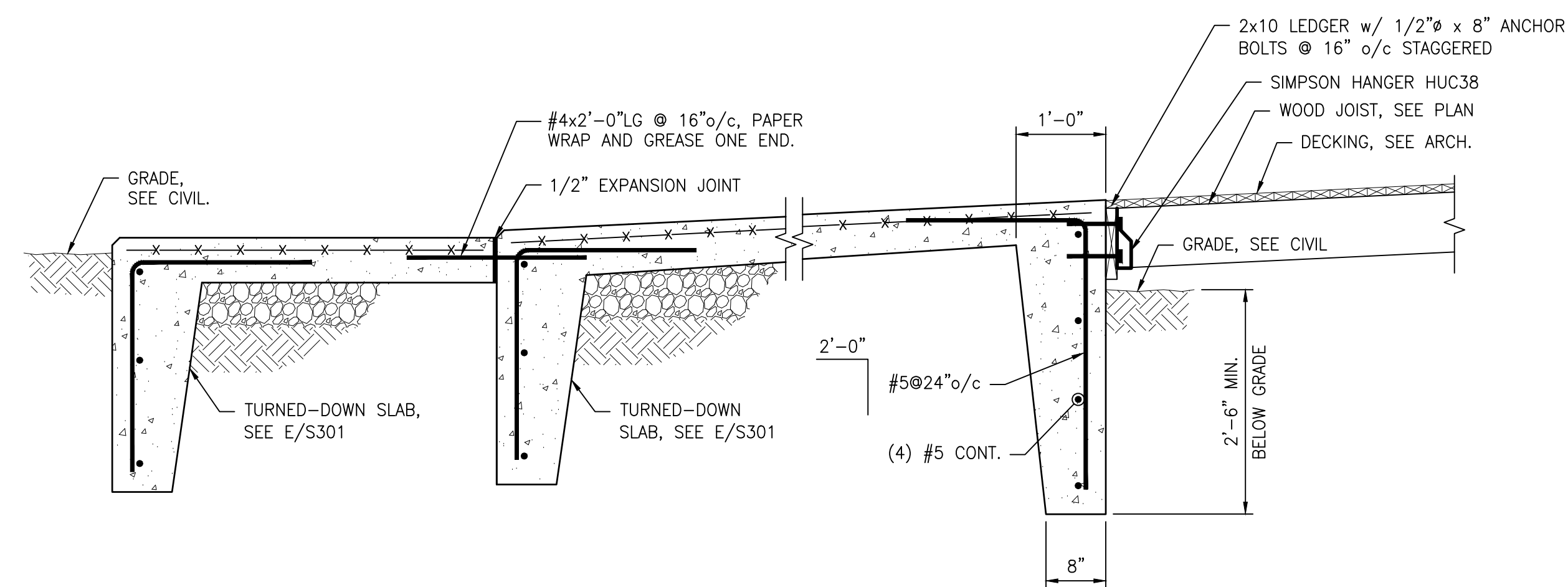
C3 AT FOUNDATION C
SCALE: NOT TO SCALE S302



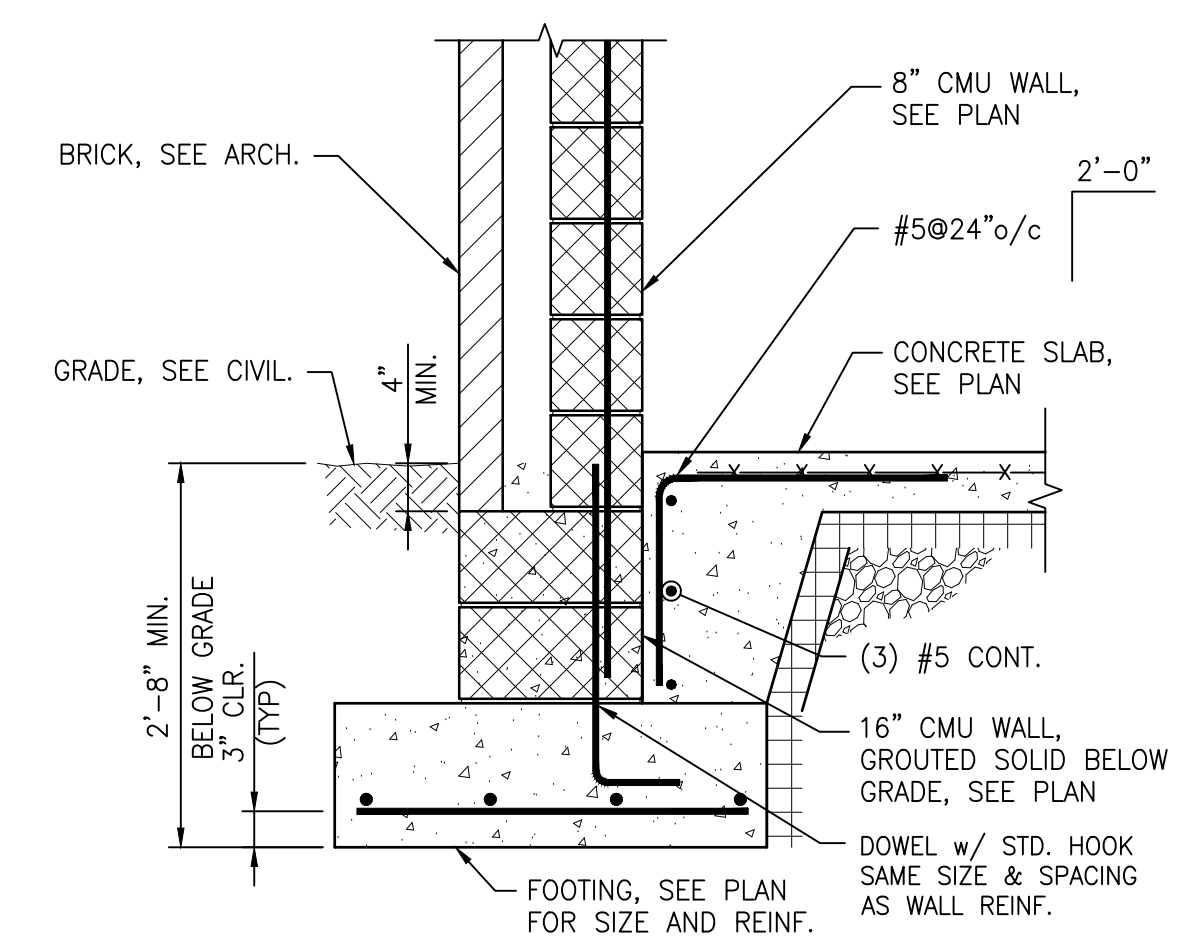
TYPICAL EXTERIOR MECHANICAL EQUIPMENT PAD D
SCALE: NOT TO SCALE S302



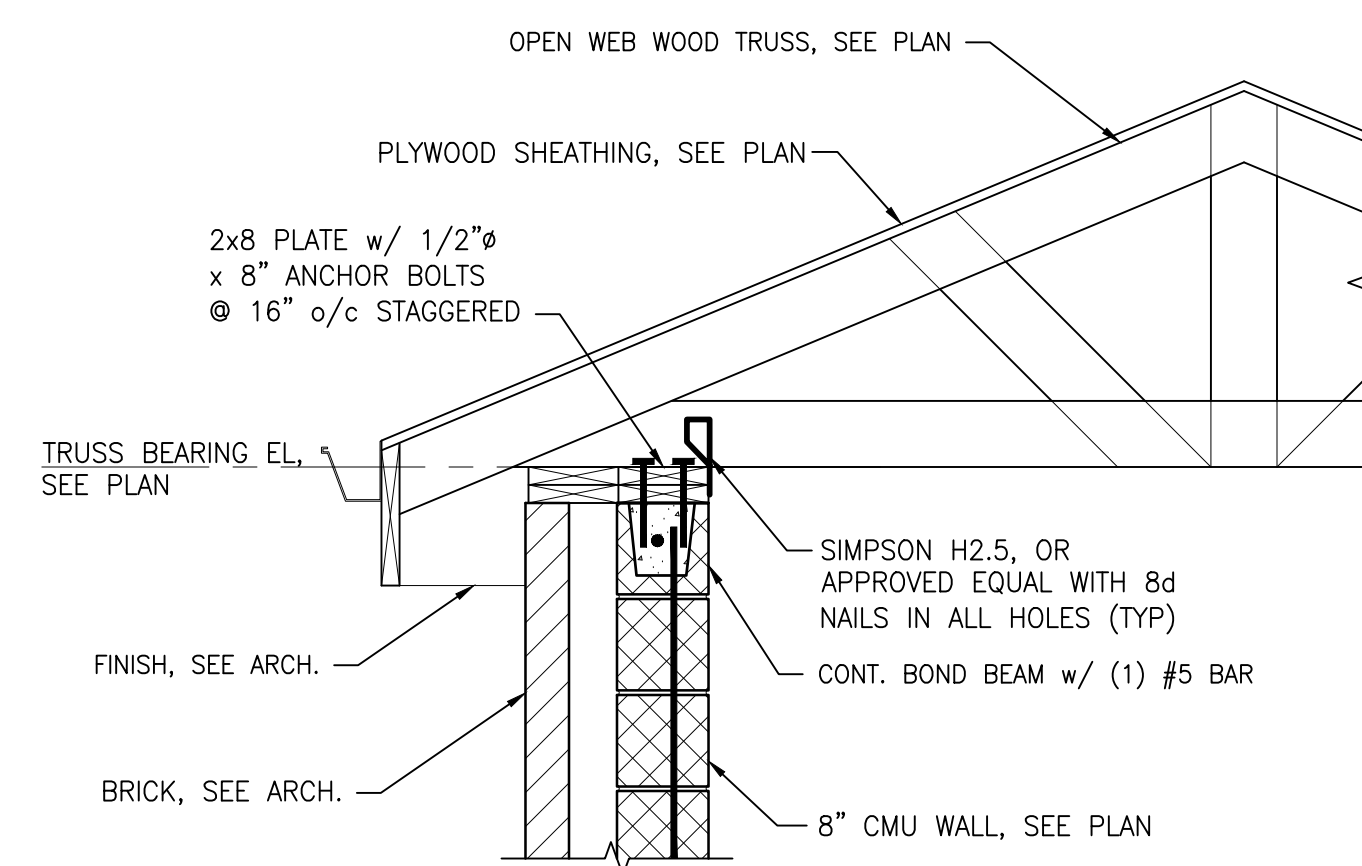
RAMP WOOD BEAM CONNECTION E
SCALE: NOT TO SCALE S302



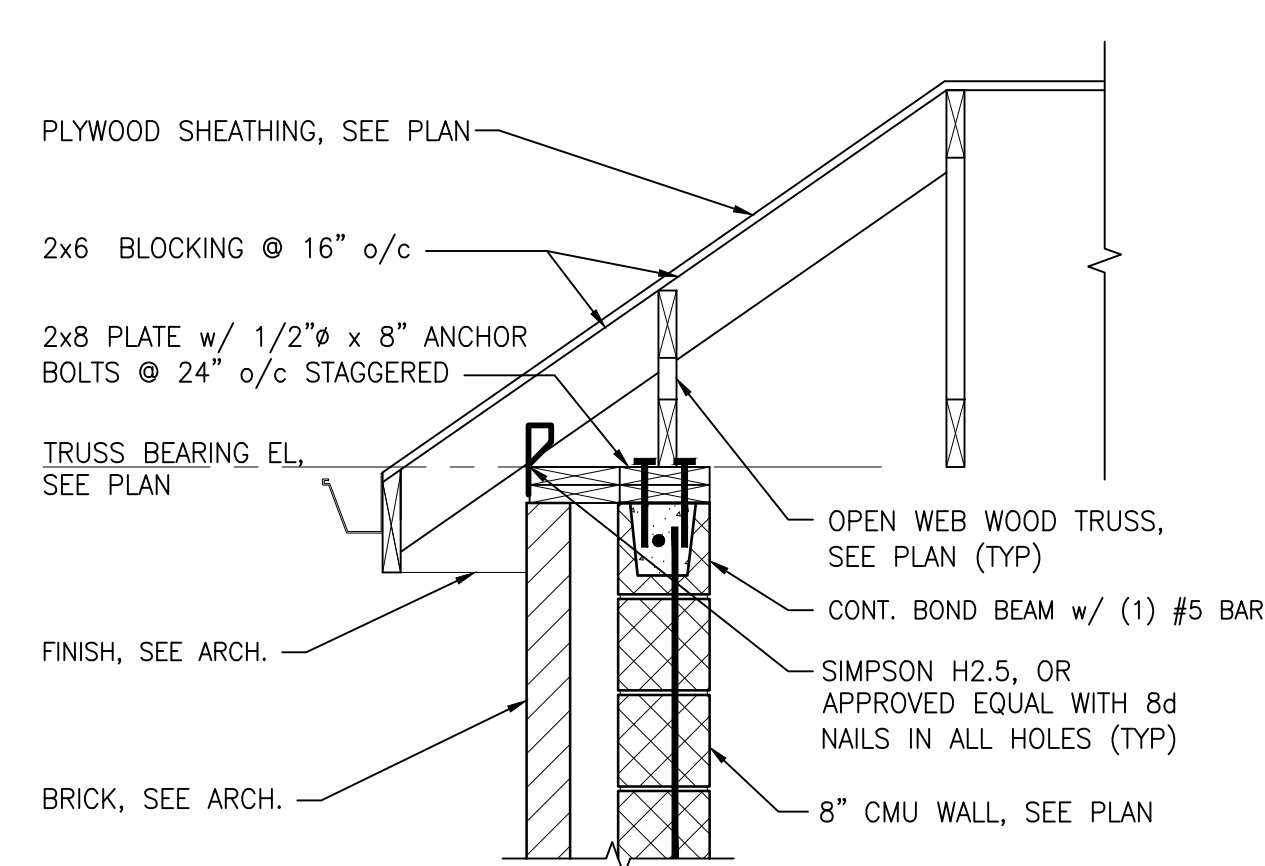
SECTION 1
3/4\"/>



SECTION 2
3/4\"/>



SECTION 3
3/4\"/>



SECTION 4
3/4\"/>

NO.	DESCRIPTION	BY	DATE

APPROVED		DATE	



MECHANICAL ABBREVIATIONS

NOTE: THIS IS A STANDARD ABBREVIATION LIST.
SOME ABBREVIATIONS MAY NOT APPEAR ON THE
ACCOMPANYING DRAWINGS.

A COMPRESSED AIR	EAT ENTERING AIR TEMPERATURE	HTHR HIGH TEMPERATURE HEATING WATER RETURN	PSIG POUNDS PER SQUARE INCH GAUGE
AAV AUTOMATIC AIR VENT	EJ EXPANSION JOINT	HTHS HIGH TEMPERATURE HEATING WATER SUPPLY	RA RETURN AIR, RELIEF AIR
ACV AUTOMATIC CONTROL VALVE	EMS ENERGY MANAGEMENT SYSTEM	HW HOT WATER	RD REFRIGERANT DISCHARGE, ROOF DRAIN
AD ACCESS DOOR, AREA DRAIN	ESP EXTERNAL STATIC PRESSURE	HWR HOT WATER RECIRCULATION	RH RELATIVE HUMIDITY
AFF ABOVE FINISHED FLOOR	ETC ETCETERA	HZ HERTZ	RL REFRIGERANT LIQUID
AR ARGON GAS	EVAC GAS EVACUATION	IN INCH, INCHES	RPM REVOLUTIONS PER MINUTE
ATC AUTOMATIC TEMPERATURE CONTROL	EWT ENTERING WATER TEMPERATURE	INV EL INVERT ELEVATION	RS REFRIGERANT SUCTION
BAS BUILDING AUTOMATION SYSTEM	EX EXISTING	KW KILOWATTS	RV RELIEF VENT, REFRIGERANT VENT
BDD BACKDRAFT DAMPER	°F DEGREE(S) FAHRENHEIT	L LONG, LENGTH	RX REMOVE EXISTING
BFP BACKFLOW PREVENTER	F FIRE LINE	LAT LEAVING AIR TEMPERATURE	SA SUPPLY AIR
BHP BRAKE HORSEPOWER	FC FLEXIBLE CONNECTION	LBS POUNDS	SAN SANITARY, SOIL, WASTE
BMS BUILDING MANAGEMENT SYSTEM	FD FIRE DAMPER, FOUNDATION DRAIN	LBS/HR POUNDS PER HOUR	SD STORM DRAIN, SMOKE DETECTOR
BO BLOW OFF	FF FINISHED FLOOR	LPR LOW PRESSURE STEAM RETURN	SF SQUARE FOOT
BTU BRITISH THERMAL UNIT	FFE FINISHED FLOOR ELEVATION	LPS LOW PRESSURE STEAM SUPPLY	SL SOUND LINING
BTUH BRITISH THERMAL UNIT PER HOUR	FIN/FT FINS PER FOOT	LWT LEAVING WATER TEMPERATURE	SP STATIC PRESSURE
°C DEGREE(S) CELSIUS	FIN/INCH FINS PER INCH	MAV MANUAL AIR VENT	SPR SPRINKLER LINE
CA CONTROL AIR	FM FLOWMETER	MBH THOUSAND BRITISH THERMAL UNITS PER HOUR	SS STAINLESS STEEL
CBD CONTINUOUS BLOWDOWN	FMF FLOWMETER FITTING	MCC MOTOR CONTROL CENTER	SQ FT SQUARE FOOT
CD CONDENSATE DRAIN	FPM FEET PER MINUTE	MOD MOTOR OPERATED DAMPER	SW STORM WATER
CF CHEMICAL FEED	FPS FEET PER SECOND	MPR MEDIUM PRESSURE STEAM RETURN	ΔT TEMPERATURE DIFFERENCE
CFM CUBIC FEET PER MINUTE	FS FLOW SWITCH	MPS MEDIUM PRESSURE STEAM SUPPLY	TS TAMPER SWITCH
CHR CHILLED WATER RETURN	FT FOOT, FEET	NA NOT APPLICABLE	TSP TOTAL STATIC PRESSURE
CHS CHILLED WATER SUPPLY	G NATURAL GAS	NC NOISE CRITERIA, NORMALLY CLOSED	TYP TYPICAL
CO CLEANOUT	GPH GALLONS PER HOUR	NFPA NATIONAL FIRE PROTECTION ASSOCIATION	UCD UNDERCUT DOOR
CO2 CARBON DIOXIDE	GPM GALLONS PER MINUTE	NO NORMALLY OPEN	UL UNDERWRITERS LABORATORIES
CW COLD WATER, CITY WATER	H HIGH	NPSH NET POSITIVE SUCTION HEAD	V VACUUM, VOLTS
D DEEP, DRAIN WATER	HB HOSE BIBB	OA OUTSIDE AIR	VD VOLUME DAMPER
DB DECIBEL, DRY BULB	HED HOSE END DRAIN VALVE	OD OVERFLOW DRAIN	VFD VARIABLE FREQUENCY DRIVE
DDC DIRECT DIGITAL CONTROL	HP HORSEPOWER	OED OPEN ENDED DUCT	VSD VARIABLE SPEED DRIVE
DHR DISTRIBUTION HEATING WATER RETURN	HPR HIGH PRESSURE STEAM RETURN	OS&Y OUTSIDE STEM AND YOKE	VTR VENT THROUGH ROOF
DHS DISTRIBUTION HEATING WATER SUPPLY	HPS HIGH PRESSURE STEAM SUPPLY	PC PUMPED CONDENSATE	W WATTS, WIDE
DL DOOR LOUVER	HR HEATING WATER RETURN	PD PRESSURE DROP, PUMP DISCHARGE	WB WET BULB
DN DOWN	HRR HEAT RECOVERY RETURN	PH PHASE	WC WATER COLUMN
DTR DUAL TEMPERATURE RETURN	HRS HEAT RECOVERY SUPPLY	PPH POUNDS PER HOUR	WG WATER GAUGE
DTS DUAL TEMPERATURE SUPPLY	HS HEATING WATER SUPPLY	PRV PRESSURE REDUCING/REGULATING VALVE	WH WALL HYDRANT
EA EXHAUST AIR	HT HEIGHT	PSI POUNDS PER SQUARE INCH	

GENERAL DEMOLITION NOTES

1. OUTAGES SHALL BE SCHEDULED THROUGH THE CONTRACTING OFFICER IN STRICT CONFORMANCE TO POLICIES AND PROCEDURES ESTABLISHED BY AACO DEPARTMENT OF PUBLIC WORKS. AT THE END OF EACH INTERRUPTION, SERVICES SHALL BE RESTORED SO THAT NORMAL USE OF THE BUILDING MAY CONTINUE. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY FAILURE TO RESTORE SERVICES, AFTER COMPLETION OF THE OUTAGE. OUTAGES REQUIRED FOR CONSTRUCTION PURPOSES SHALL BE SCHEDULED FOR THE SHORTEST PRACTICAL PERIODS OF TIME, IN COORDINATION WITH THE CONTRACTING OFFICER FOR SPECIFIC, MUTUALLY AGREEABLE PERIODS OF TIME AFTER EACH OF WHICH THE INTERRUPTION SHALL CEASE AND SERVICE SHALL BE RESTORED. THIS PROCEDURE SHALL BE REPEATED TO SUIT THE AACO DEPARTMENT OF PUBLIC WORKS WORKING SCHEDULE AS MANY TIMES AS REQUIRED UNTIL WORK IS COMPLETED. THE FOLLOWING OUTAGES ARE TO BE COORDINATED:
 - 1.1. CONNECTION TO DOMESTIC WATER TREATMENT SYSTEM
 - 1.2. CONNECTION TO SANITARY AND VENT SYSTEM
2. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE AND MECHANICAL AND ELECTRICAL SERVICES WHICH ARE TO REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE ARCHITECT/ENGINEER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW WORK.
3. ALL EXISTING PIPING, EQUIPMENT, DUCTWORK, AND MATERIALS NOT REQUIRED FOR RE-USE OR REINSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, SHALL BE DELIVERED TO HIM ON THE PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ARCHITECT/ENGINEER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.
4. EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF DUCTWORK, PIPING, EQUIPMENT, AND MATERIALS, INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL DUCTWORK, PIPING, EQUIPMENT, AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.
5. EXISTING DUCT, PIPE, AND EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.
6. WHEN EXISTING MECHANICAL AND ELECTRICAL WORK IS REMOVED, ALL PIPES, VALVES, DUCTS, AND MATERIALS SHALL BE REMOVED TO A POINT BELOW THE FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.
7. EXISTING PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK TO SERVICE MAINS UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, VALVES, ETC.. UNDERGROUND PIPING TO BE REMOVED SHALL BE LIMITED TO PIPING IN THE AREAS OCCUPIED BY THE NEW CONSTRUCTION AND FIVE FEET (5') BEYOND THE NEW CONSTRUCTION. EXISTING PIPING INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE SHALL BE CAPPED, PLUGGED, OTHERWISE SEALED. NO EXISTING PIPING SHALL BE LEFT OPEN END.
8. EXISTING DUCTWORK INDICATED TO BE DISCONNECTED AND REMOVED SHALL INCLUDE ALL RELATED AIR DEVICES, HANGERS, SUPPORTS, ETC., UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. EXISTING DUCTWORK WHERE INDICATED TO BE CAPPED OR REQUIRED TO REMAIN IN SERVICE SHALL BE CAPPED WITH 18 GAUGE SHEETMETAL. SECURE CAP WITH SHEETMETAL SCREWS AND SEAL PERIMETER OF OPENING AIR TIGHT WITH DUCT SEALER. NO EXISTING DUCTWORK SHALL BE LEFT OPEN FOR ANY EXTENDED PERIOD OF TIME. CAP EXISTING DUCTWORK IMMEDIATELY AS REQUIRED OR DIRECTED BY THE ARCHITECT/ENGINEER.
9. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND AT NO ADDITIONAL CONTRACT COST.
10. PATCHING OF ALL NEW AND EXISTING OPENINGS IN WALLS, CEILINGS, ROOF, AND FLOOR SURFACES DAMAGED OR CREATED BY DEMOLITION WORK SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURES, MATERIAL, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND AT NO ADDITIONAL CONTRACT COST.
11. IN GENERAL ALL PIPING, EQUIPMENT, DUCTWORK, AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL PIPING, CONDUITS, EQUIPMENT, DUCTWORK, AND MATERIALS SHOWN "HEAVY AND MARKED" IS EXISTING TO BE DEMOLISHED.

 15 West Mulberry Street Baltimore, Maryland 21201-4406 Telephone Number: 410-234-8444	 5520 RESEARCH PARK DRIVE SUITE 300 BALTIMORE, MD 21228 410.576.0505 www.rmf.com	*PROFESSIONAL CERTIFICATION I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 48195, EXPIRATION DATE 01/12/2024.* (C) RMF ENGINEERING, INC. ALL REPRODUCTION IS PROHIBITED	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DESCRIPTION	BY	DATE																	ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			DATE: 9-25-2023
NO.	DESCRIPTION	BY	DATE																								
				APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: NONE	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122																				
				CHIEF ENGINEER _____	PROJECT MANAGER _____	CHECKED BY: RK3																					
				APPROVED _____ DATE _____	APPROVED _____ DATE _____	SHEET NO. 45 OF 65																					
				ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	PROJECT NO. P535900 CONTRACT NO. P535908																					
						MECHANICAL ABBREVIATIONS	M001																				

MECHANICAL LEGEND

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
	THERMOSTAT
	AIR FLOW
	TRANSFER AIR FLOW (INDICATE CFM)
	DOOR LOUVER
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	FIRE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	VOLUME DAMPER
	BACK DRAFT DAMPER
	AUTOMATIC ISOLATION DAMPER
	SMOKE DAMPER
	DUCT SMOKE DETECTOR
	FLEXIBLE DUCT CONNECTION
	DUCTWORK WITH SOUND LINING
	HORIZONTAL ACCESS DOOR

SYMBOL	DESCRIPTION
	ELECTRIC DUCT HEATER
	VERTICAL ACCESS DOOR
	ELBOW WITH DOUBLE THICKNESS TURNING VANES
	RECTANGULAR BRANCH TAKE-OFF
	BELL MOUTH BRANCH TAKE-OFF
	ROUND BRANCH TAKE-OFF
	ROUND DUCT DROP OFF BOTTOM
	DUCT TRANSITION
	SQUARE TO ROUND TRANSITION
	DUCTWORK CHANGE IN ELEVATION (UP OR DOWN)
	SUPPLY/OUTSIDE AIR DUCT RISER
	RETURN AIR DUCT RISER
	EXHAUST/RELIEF AIR DUCT RISER
	ROUND DUCT RISER (SMALLER THAN 12")
	ROUND DUCT RISER (12" AND LARGER)
	AIR DEVICE IDENTIFIER

SYMBOL	DESCRIPTION
	PIPE DROP
	PIPE RISE
	PIPE CAP
	BRANCH TAKE OFF
	PIPE DROP TEE
	PIPE RISE TEE
	SHUTOFF VALVE
	FLOW ARROW

SYMBOL	DESCRIPTION
&	AND
AT	AT
°F	DEGREE(S) FAHRENHEIT
°C	DEGREE(S) CELSIUS
∅	DIAMETER, PHASE
/	DIVIDE BY, PER
\$	DOLLAR
=	EQUALS, EQUAL TO
x'	FEET, FOOT
>	GREATER THAN
≥	GREATER THAN OR EQUAL TO
x"	INCH(ES)
<	LESS THAN
≤	LESS THAN OR EQUAL TO
-	MINUS
x	MULTIPLY BY, BY
#	NUMBER, POUND
%	PERCENT
+	PLUS
±	PLUS OR MINUS

DESIGNATION	DESCRIPTION
	DEMOLITION WORK (SHOWN ON DEMOLITION PLANS)
	EXISTING WORK
	FUTURE WORK
	NEW WORK
	MATCHLINE
	PART PLAN DESIGNATION

DESIGNATION	DESCRIPTION
	FLOOR PLAN NUMBER PARTIAL FLOOR PLAN NUMBER ELEVATION = LETTER DETAIL = NUMBER
	SHEET NUMBER ON WHICH THE PARTIAL PLAN, ELEVATION OR DETAIL IS DRAWN
	SHEET NUMBER WHERE PARTIAL PLAN, ELEVATION OR DETAIL IS TAKEN FROM
	NORTH ARROW
	POINT OF CONNECTION TO EXISTING
	POINT OF DISCONNECTION

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				APPROVED	DATE	APPROVED	DATE
				CHIEF ENGINEER		PROJECT MANAGER	
				APPROVED	DATE	APPROVED	DATE
				ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	
				SCALE: NONE	DRAWN BY: DVC		FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122
				CHECKED BY: RK3	SHEET NO. 46 OF 65		
				PROJECT NO. P535900	CONTRACT NO. P535908		
MECHANICAL LEGEND & SYMBOLS							M002

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ARCHITECTS
15 West Mulberry Street
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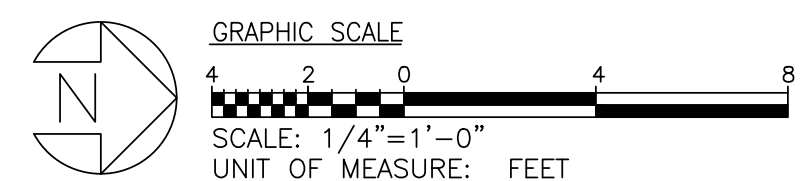
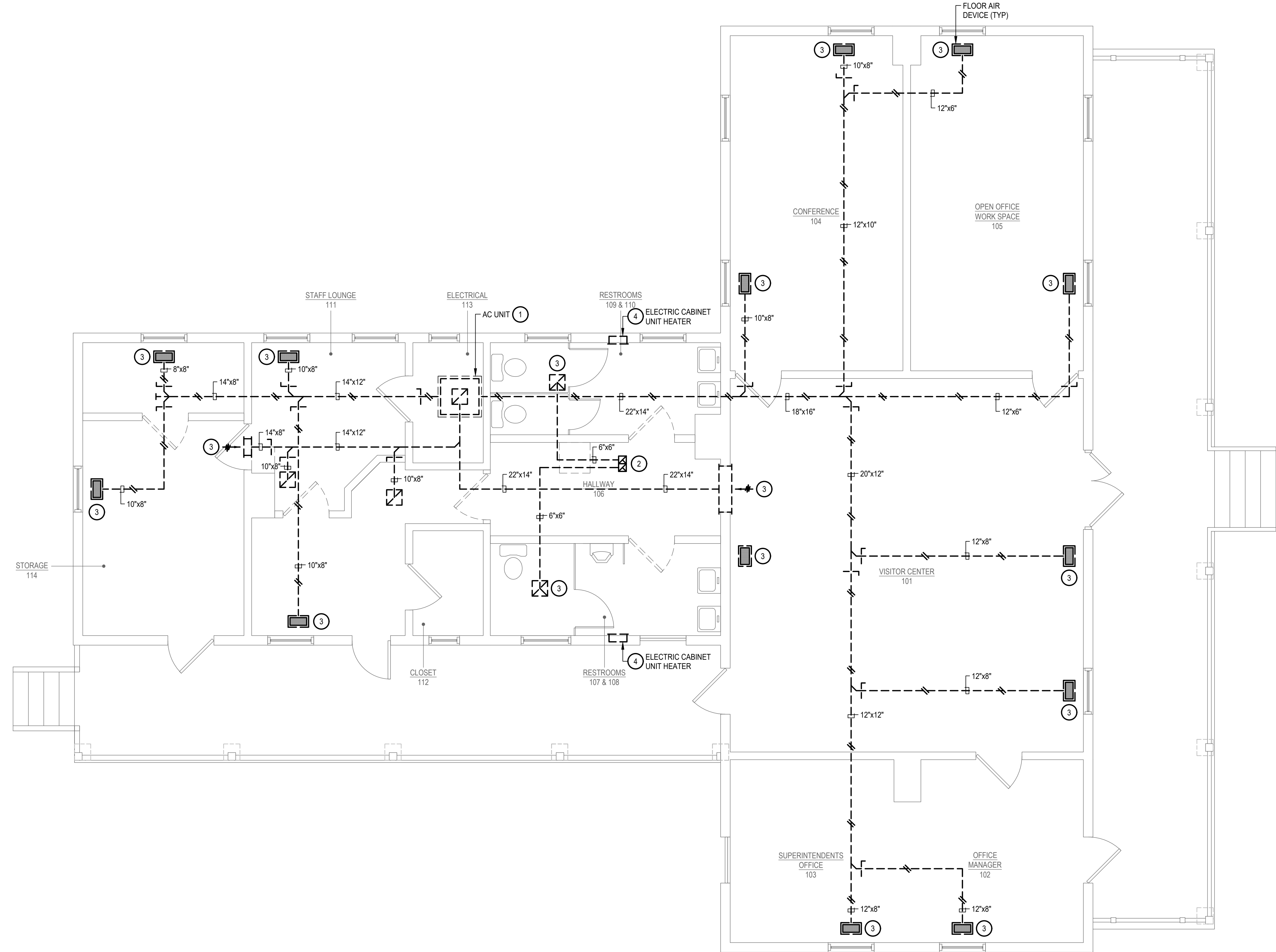
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GENERAL NOTES:

1. SYSTEM SHUTDOWN AND OUTAGES MUST BE SCHEDULED, COORDINATED AND APPROVED BY THE OWNER/FACILITIES. AT THE END OF EACH INTERRUPTION AND UPON COMPLETION OF WORK, SERVICES MUST BE RESTORED SO NORMAL USE OF BUILDING MAY CONTINUE.
2. REFER TO DRAWING M001 FOR GENERAL DEMOLITION NOTES.
3. LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.

DRAWING NOTES:

1. REMOVE EXISTING AIR CONDITIONING UNIT ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROL CONNECTIONS.
2. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. PATCH EXISTING WALL AND CEILINGS TO MATCH ADJACENT FINISHES.
3. REMOVE EXISTING CEILING / WALL / FLOOR AIR DEVICE. PATCH EXISTING WALL AND CEILINGS TO MATCH ADJACENT FINISHES.
4. REMOVE EXISTING CABINET UNIT HEATER AND ASSOCIATED CONTROL CONNECTION. PATCH EXISTING WALL AND CEILINGS TO MATCH ADJACENT FINISHES.



gba
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ARCHITECTS
15 West Mulberry Street
Baltimore, Maryland 21201-4406
Telephone Number: 410-234-8444

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APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

SCALE: 1/4"=1'-0"
DRAWN BY: DVC
CHECKED BY: RK3
SHEET NO. 47 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

MECHANICAL
DEMOLITION FLOOR PLAN

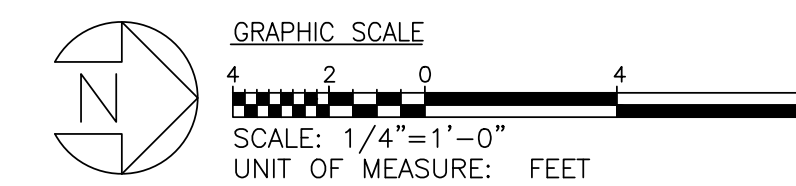
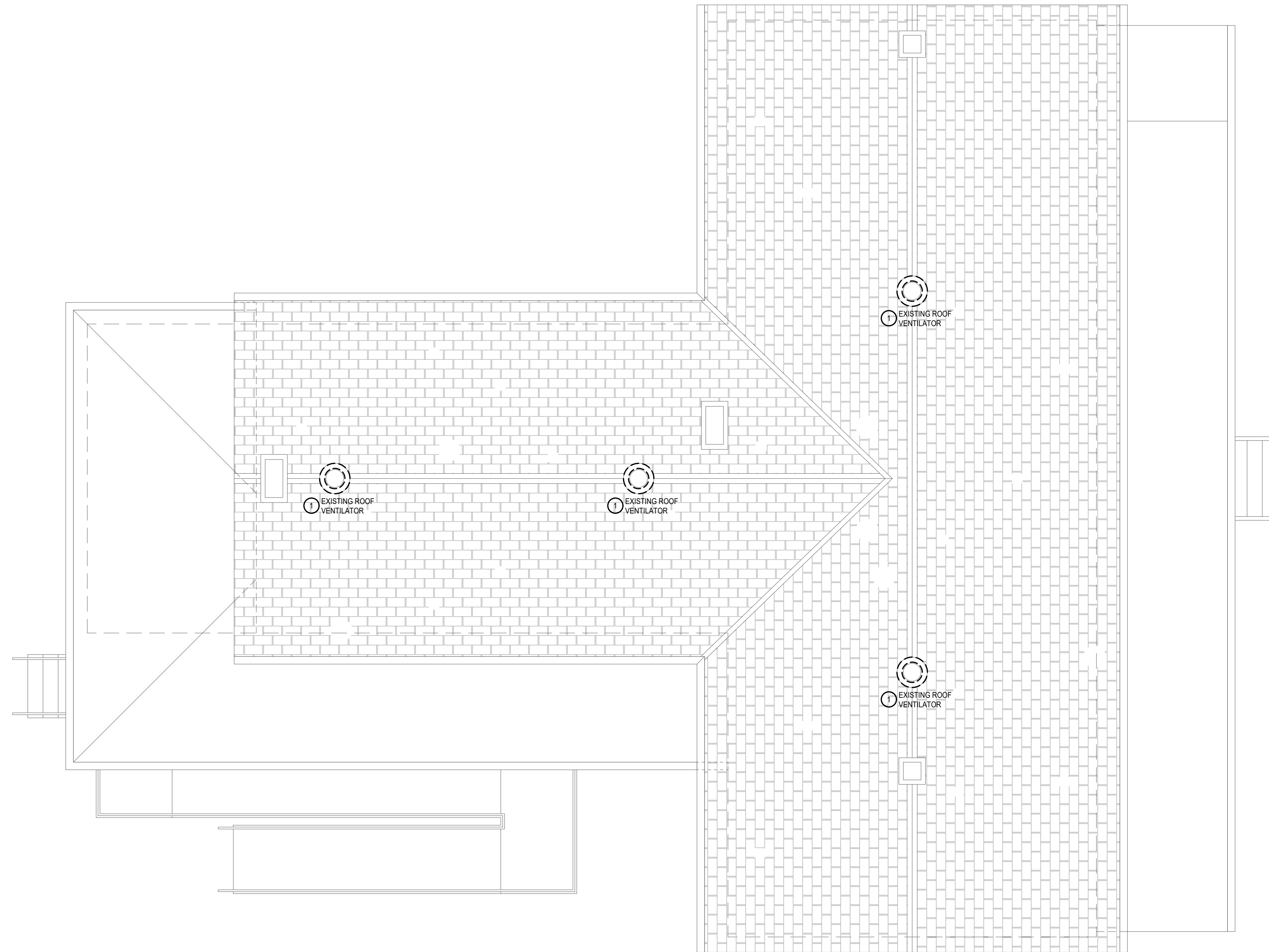
MD101

GENERAL NOTES:

1. SYSTEM SHUTDOWN AND OUTAGES MUST BE SCHEDULED, COORDINATED AND APPROVED BY THE OWNER/FACILITIES. AT THE END OF EACH INTERRUPTION AND UPON COMPLETION OF WORK, SERVICES MUST BE RESTORED SO NORMAL USE OF BUILDING MAY CONTINUE.
2. REFER TO DRAWING M001 FOR GENERAL DEMOLITION NOTES.

DRAWING NOTE:

- ① REMOVE EXISTING ROOF VENTILATOR AND ASSOCIATED DUCTWORK AND PREP FOR NEW VENTILATOR.



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ARCHITECTS
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Baltimore, Maryland 21201-4406
Telephone Number: 410-234-8444

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DATE	DATE	DATE	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

SCALE: 1/4"=1'-0"
DRAWN BY: DVC
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SHEET NO. 48 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
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**MECHANICAL
DEMOLITION ROOF PLAN**

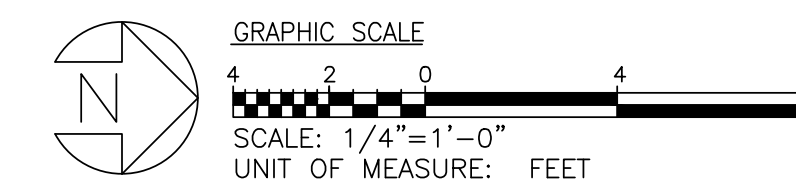
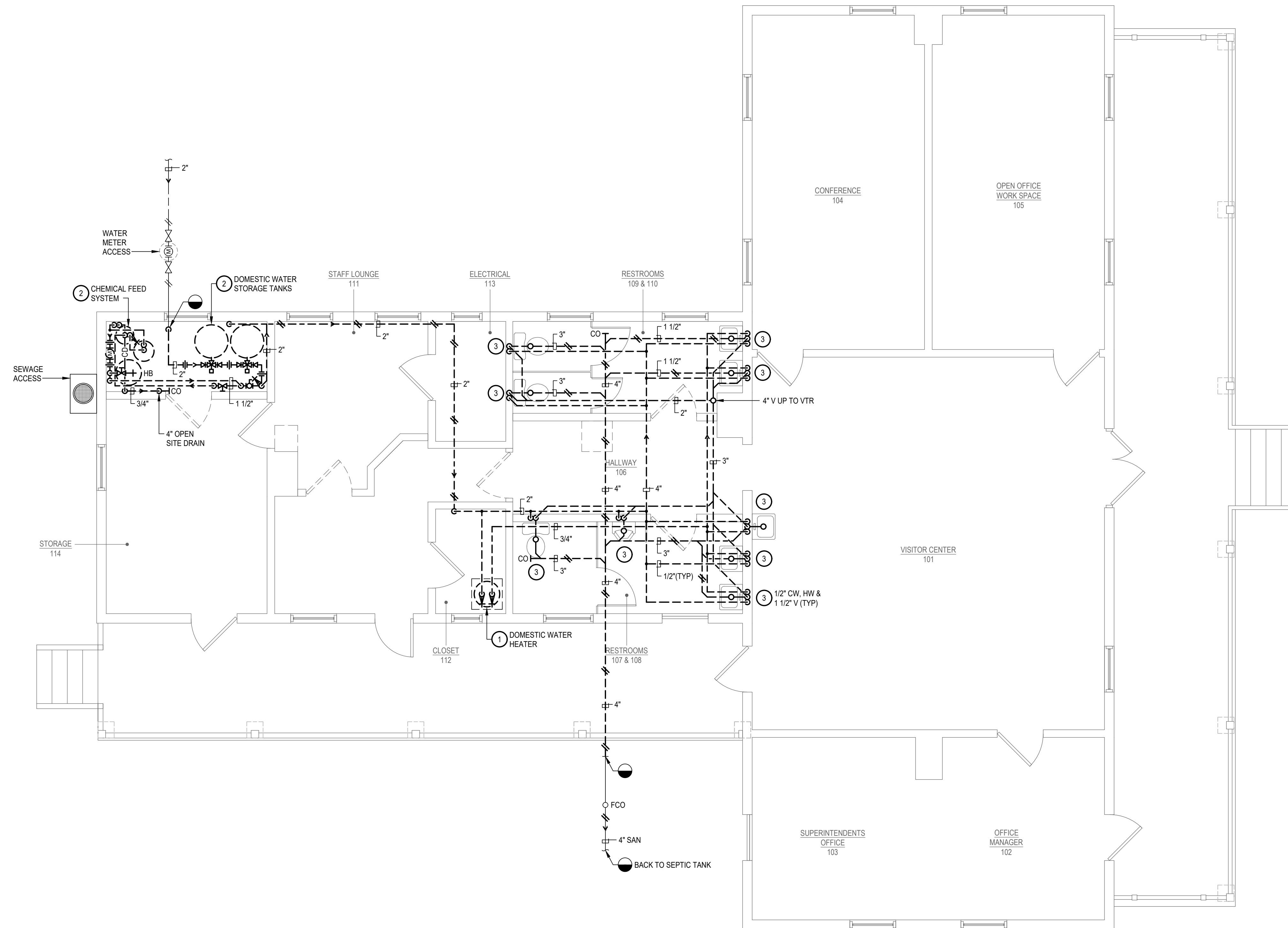
MD102

GENERAL NOTES:

1. SYSTEM SHUTDOWN AND OUTAGES MUST BE SCHEDULED, COORDINATED AND APPROVED BY THE OWNER/FACILITIES. AT THE END OF EACH INTERRUPTION AND UPON COMPLETION OF WORK, SERVICES MUST BE RESTORED SO NORMAL USE OF BUILDING MAY CONTINUE.
2. LOCATION OF UNDERSLAB SANITARY DRAIN PIPING IS UNKNOWN. REMOVE EXISTING SANITARY DRAIN PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW SANITARY DRAIN AND DOMESTIC WATER SERVICES.
3. REFER TO DRAWING M001 FOR GENERAL DEMOLITION NOTES.
4. LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.

DRAWING NOTES:

1. REMOVE EXISTING ELECTRIC WATER HEATER AND ASSOCIATED PIPING.
2. REMOVE EXISTING CHEMICAL FEED SYSTEM, DOMESTIC WATER TANKS AND ASSOCIATED PIPING. CLEAN EQUIPMENT AND RETURN TO OWNER FOR STORAGE.
3. REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING CONNECTIONS.



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**ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS**

SCALE: 1/4"=1'-0"
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SHEET NO. 49 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

**PLUMBING
DEMOLITION FLOOR PLAN**

PD101

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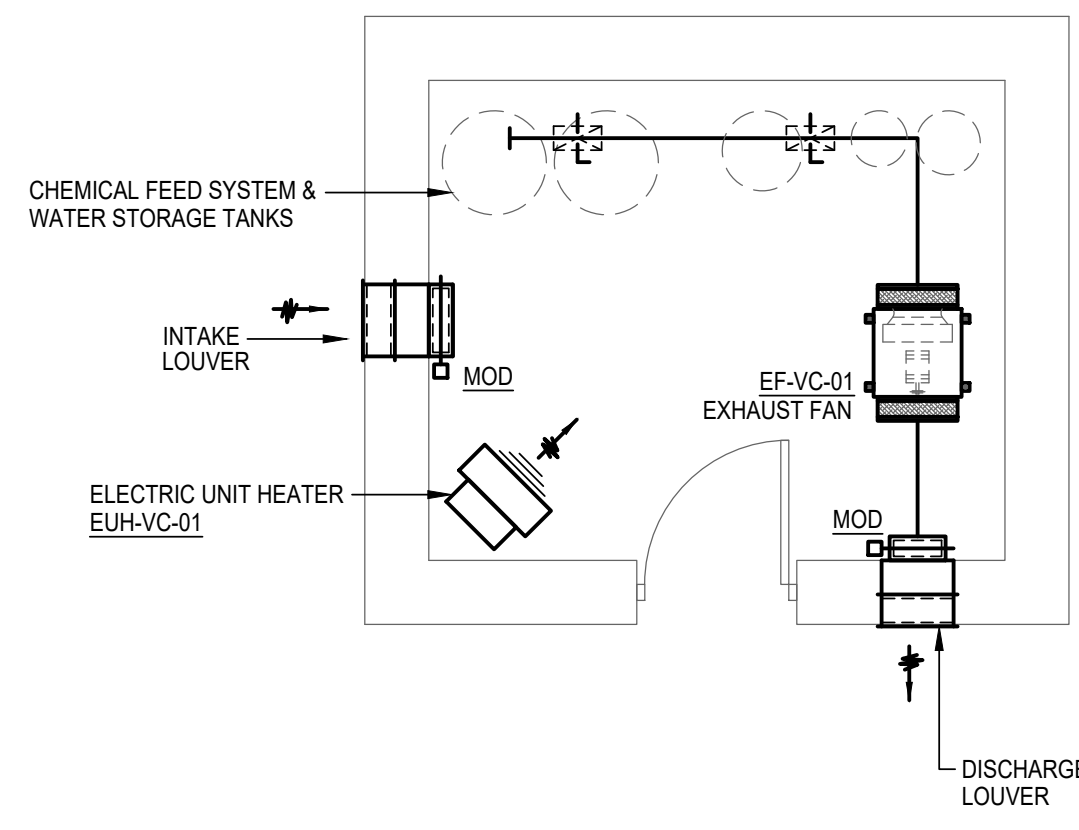
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GENERAL NOTES:

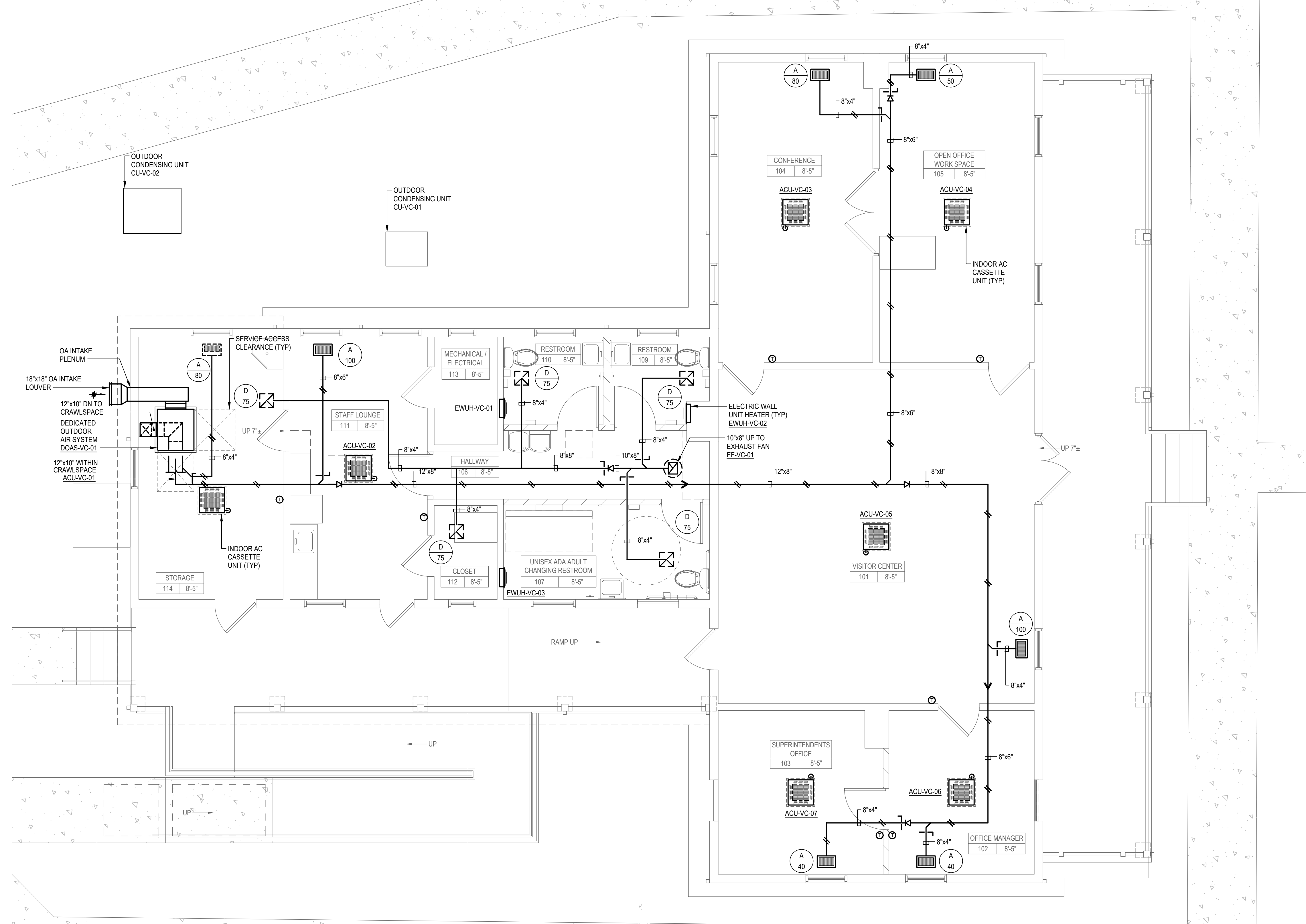
- EXHAUST FAN LOCATED WITHIN THE PITCHED ROOF TO BE INSTALLED ABOVE THE HEIGHT OF THE BOTTOM CHORD OF THE STRUCTURAL ROOF TRUSSES AND ROUTED BETWEEN TRUSS OPENINGS.
- REFER TO AIR DEVICE SCHEDULE FOR DUCT SIZES TO AIR DEVICE.
- LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.

DRAWING NOTE:

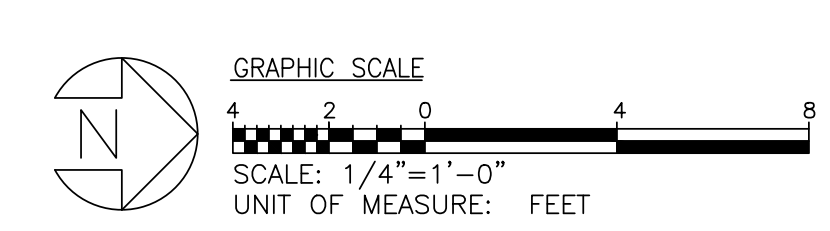
- PROVIDE DURODYNE ROUND INTERNAL GEAR DRIVEN CABLE OPERATED DAMPER.



WATER TREATMENT BUILDING
SCALE: 1/4" = 1'-0"



VISITOR CENTER BUILDING
SCALE: 1/4" = 1'-0"



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**ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS**

DATE: 9-25-2023

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

DRAWN BY: DVC
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SHEET NO. 50 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION VISITOR CENTER
9500 FORT SMALLWOOD ROAD
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**MECHANICAL HVAC DUCTWORK
NEW WORK FLOOR PLAN**

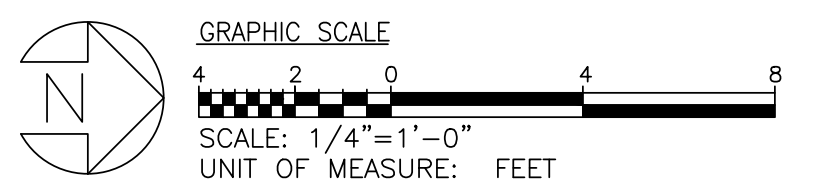
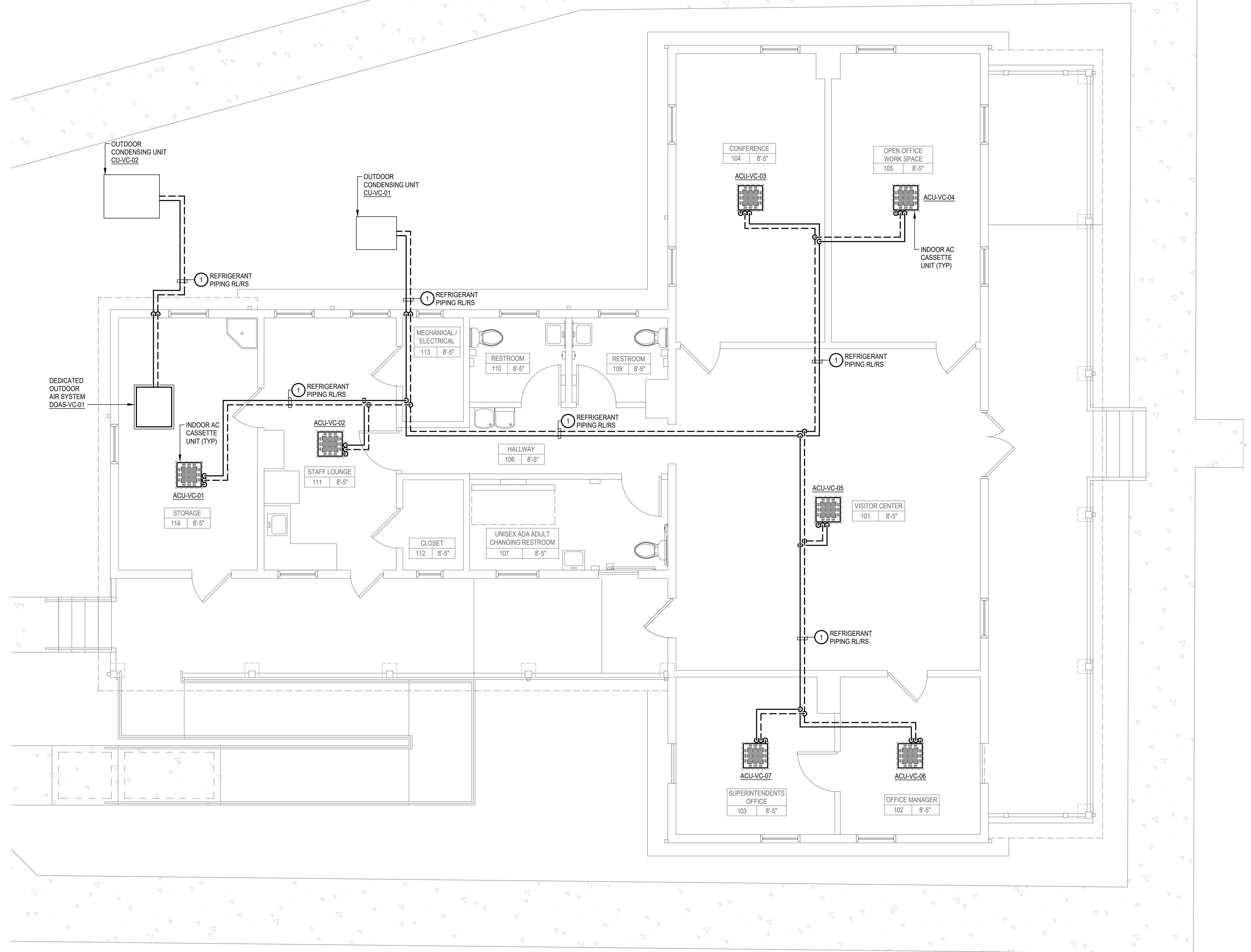
M101

GENERAL NOTE:

- OVERHEAD REFRIGERANT PIPING RS & RL SERVICE LINES WITHIN THE PITCHED ROOF SHALL BE INSTALLED ABOVE THE HEIGHT OF THE BOTTOM CHORD OF THE STRUCTURAL ROOF TRUSSES AND ROUTED BETWEEN TRUSS OPENINGS.
- LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.

DRAWING NOTE:

- REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION.



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ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023
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 PASADENA, MD 21122
**MECHANICAL HVAC PIPING
 NEW WORK FLOOR PLAN**
M201

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 Baltimore, Maryland 21201-4406
 Telephone Number: 410-234-8444

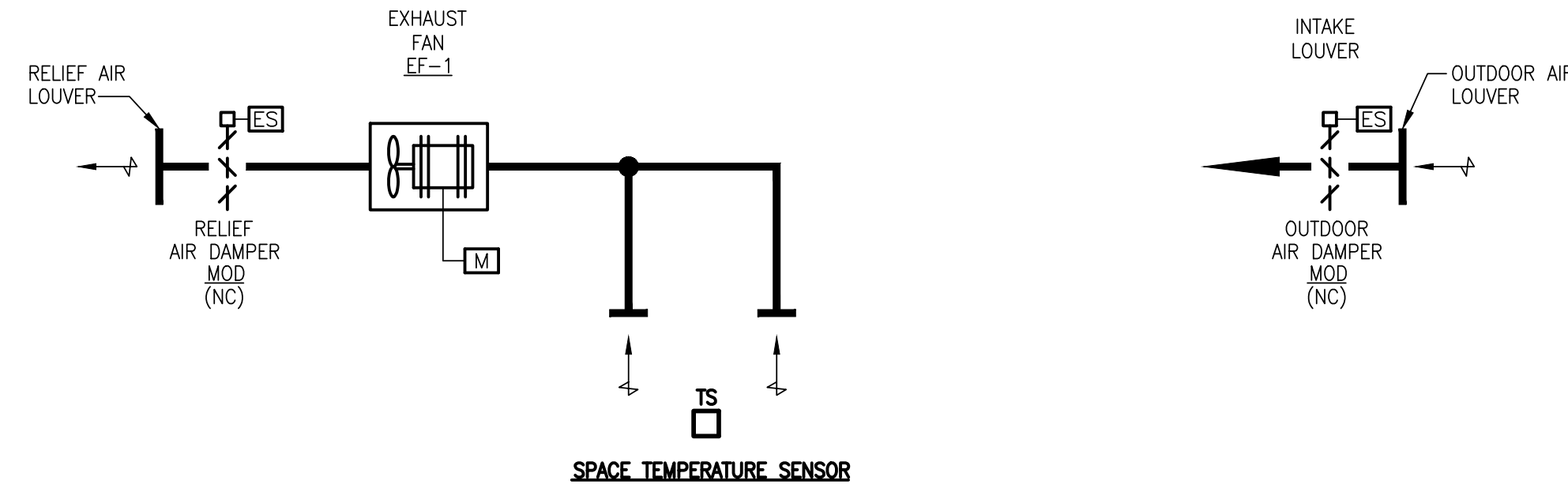
rmf RMF Engineering
 5520 RESEARCH PARK DRIVE
 SUITE 300
 BALTIMORE, MD 21228
 410.576.0505
 www.rmfc.com

SCALE: 1/4" = 1'-0"
 DRAWN BY: DVC
 CHECKED BY: RK3
 SHEET NO. 51 OF 65
 PROJECT NO. P535900
 CONTRACT NO. P535908



SEQUENCE OF OPERATION:

- SPACE THERMOSTAT, WITH AN "OFF-AUTO" SUBBASE, SHALL CONTROL THE UNIT HEATER. WHEN IN THE "AUTO" POSITION, THERMOSTAT SHALL CYCLE THE UNIT HEATER FAN AND ELECTRIC HEAT TO MAINTAIN SPACE SETPOINT OF 65°F (ADJUSTABLE).
- IN THE "OFF" POSITION, FAN SHALL REMAIN OFF AND ELECTRIC HEAT SHALL BE DE-ENERGIZED.



SEQUENCE OF OPERATION:

- EXHAUST FAN EF-VC-01 SHALL INITIALLY BE INDEXED VIA ITS UNIT MOUNTED TOGGLE SWITCH. EXHAUST FAN EF-VC-01 SHALL PROVIDE SUMMER VENTILATION AND TEMPERATURE CONTROL.
- ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 85°F, THE ASSOCIATED MOTOR OPERATED RELIEF DAMPER SHALL OPEN. AFTER OUTDOOR AIR DAMPER AT INTAKE LOUVER 2 IS PROVEN OPEN BY ITS END SWITCH, EXHAUST FAN EF-VC-01 SHALL ENERGIZE.
- EXHAUST FAN EF-VC-02 SHALL DE-ENERGIZE AND ITS ASSOCIATED OUTDOOR AIR DAMPER AND RELIEF DAMPER SHALL CLOSE WHEN SPACE TEMPERATURE DROPS BELOW THE SETPOINT OF 80°F (ADJUSTABLE).
- THE EMS SHALL BE ALARMED UPON A FAILURE OF EXHAUST FAN, OUTDOOR AIR DAMPER OR RELIEF AIR DAMPER.

ELECTRIC UNIT HEATER

SCALE: 1
NONE

WATER TREATMENT ROOM VENTILATION

SCALE: 2
NONE

AIR DEVICE SCHEDULE

TYPE	NO.	DUTY	CFM	SIZE	NECK SIZE	BLOW	BASIS OF DESIGN (TITUS OR EQUAL)	DESCRIPTION	NOTES
A	1	SUPPLY	0-125	-	4"x12"	DIRECT	TITUS CT-480	GRILLE	1,2,3,4,5
D	1	EXHAUST	0-75	-	6"x6"	DIRECT	350R	GRILLE	1,2,3,4,5

NOTES:

- PROVIDE BALANCING DAMPERS ON ALL SUPPLY AND RETURN DUCT TAKE-OFFS AND ON ALL SUPPLY DIFFUSERS, GRILLES, AND REGISTERS.
- VERIFY THE FINISHES OF ALL AIR DEVICES WITH ARCHITECT.
- COORDINATE AND VERIFY AIR DEVICE FRAME TYPES WITH CEILING TYPES.
- CONTRACTOR TO VERIFY QUANTITIES AND SIZES OF ALL AIR DEVICES.
- CONTRACTOR TO COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS & SPRINKLER.

VRF SYSTEM SCHEDULE

DESIGNATION	SERVING	TYPE	NOMINAL TONS	SUPPLY FAN			COOLING			HEATING		INDOOR UNIT ELECTRIC		BASIS OF DESIGN INDOOR UNIT	
				CFM	E.S.P. (IN.W.C.)	HP	EAT (DB/WB F)	SENSIBLE CAPACITY (MBH)	TOTAL CAP. (MBH)	EAT (DB F)	TOTAL CAP. (MBH)	MCA	MOP		VOLTS-PH
ACU-VC-01	STORAGE	CEILING	0.5	285	-	-	-7/76	-	7.5	59	8.5	-	-	208/1	ARNU073TRD4
ACU-VC-02	STAFF LOUNGE	CEILING	0.62	283	-	-	-7/76	-	9.6	59	10.9	-	-	208/1	ARNU093TRD4
ACU-VC-03	CONFERENCE	CEILING	0.98	307	-	-	-7/76	-	12.3	59	13.6	-	-	208/1	ARNU123TRD4
ACU-VC-04	OPEN OFFICE WORK SPACE	CEILING	0.75	283	-	-	-7/76	-	9.6	59	9.6	-	-	208/1	ARNU093TRD4
ACU-VC-05	VISITOR CENTER	CEILING	1.87	813	-	-	-7/76	-	24.2	59	27.3	-	-	208/1	ARNU243TRD4
ACU-VC-06	OFFICE MANAGER	CEILING	0.4	285	-	-	-7/76	-	5.5	59	6.1	-	-	208/1	ARNU053TRD4
ACU-VC-07	SUPERINTENDENTS OFFICE	CEILING	0.43	285	-	-	-7/76	-	5.5	59	6.1	-	-	208/1	ARNU053TRD4

DEDICATED OUTSIDE AIR SYSTEM SCHEDULE

DESIG	DUTY	SUPPLY FAN SECTION				EXHAUST FAN SECTION				COOLING COIL										ELECT HEATING COIL			ELECTRICAL		BASIS OF DESIGN	REMARKS												
		CFM	TSP INCH H ₂ O	ESP INCH H ₂ O	MOTOR BHP HP	RPM	CFM	ESP INCH H ₂ O	MOTOR BHP HP	RPM	EAT °F DB	LAT °F WB	TOTAL MBH	SENS MBH	MIN TOTAL FACE AREA	MAXIMUM FACE VEL FPM	MAX FIN SPACING FIN/IN	MAXIMUM AIR PD IN H ₂ O	MIN ROWS	EER	EWT °F	LWT °F	FLOW GPM	CAPACITY KW			EAT °F	LAT °F	VOLTAGE	MCA A	MOP A							
DOAS-1	STORAGE	550	1.4	1.00	0.24	4.14	-	550	1.00	0.24	4.14	-	95.0	78.0	49.2	49	52	28	0.91	500	-	-	-	-	-	-	-	-	-	-	11	10	74	208V/3Ø/60HZ	51	60	QV04P7E	(1)(2)(3)

- COOLING COIL FLUID TO BE 35% PROPYLENE GLYCOL.
- PROVIDE MERV 8 PREFILTER AND MERV 13 FINAL FILTER ON OA.
- PROVIDE WITH HEAT RECOVERY WHEEL. REFER TO HEAT RECOVERY WHEEL SCHEDULE FOR PERFORMANCE.

OUTDOOR CONDENSING UNITS

DESIG	SERVICE	CFM	IEER	COP	COOLING BTUH	HEATING BTUH	REFRIGERANT	COMPRESSOR		ELECTRICAL	OPERATING WEIGHT LBS	BASIS OF DESIGN	REMARKS
								TYPE	QUANTITY				
CU-VC-01	VRF SYSTEM	8,470	28.4	2.66	72,000	81,000	R410A	SCROLL	1	208/3/60	430	ARUM072BTE5	(1)(2)(3)(4)(5)(6)
CU-VC-02	DOAS-1	5,557	-	-	-	-	R410A	-	1	208/3/60	243	RC5S032C	(1)(2)(3)(4)(5)(6)

- NOTES:**
- CONTRACTOR SHALL REFER TO MANUFACTURER FOR MAXIMUM PIPING LENGTHS AND COORDINATE CONDENSING UNITS FINAL LOCATION.
 - PROVIDE 12" EQUIPMENT SUPERSTANDS.
 - ALL EQUIPMENT MUST BE AHRF CERTIFIED.
 - PROVIDE TWINNING KIT FOR CONNECTION OF HEAT PUMP MODULES.
 - EFFICIENCY AT ARI CONDITIONS NON DUCTED UNITS. COP AT 17F.
 - PROVIDE MITSUBISHI MODEL AE-200A TOUCH-SCREEN MASTER CONTROLLER WITH WEB BASED ACCESS.

EXHAUST FAN SCHEDULE

DESIG.	SERVING	CFM	E.S.P. (IN.W.C.)	FAN SPEED (RPM)	TYPE	DRIVE	ELECTRIC VOLTS-PH	BASIS OF DESIGN (OR EQUAL)	NOTES
EWUH-VC-01	WATER TREATMENT BUILDING	125	0.5	1219	GALVANIZED STEEL	DIRECT	115/60/1	CSP-A390-VG	-
EWUH-VC-02	VISITORS CENTER	375	0.75	1636	ALUMINUM	DIRECT	115/60/1	G-095-VG	-

NOTES:

- PROVIDE WITH BACKDRAFT DAMPER, GRAVITY OPERATED.
- PROVIDE WITH BIRDSCREEN AT TERMINATION.
- FAN TO BE ENERGY STAR LISTED.
- PROVIDE WALL MOUNTED, LINE VOLTAGE THERMOSTAT. SET THERMOSTAT TO 85°F.



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I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER 48165. EXPIRATION DATE 01/12/2024.

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NO.	DESCRIPTION	BY	DATE

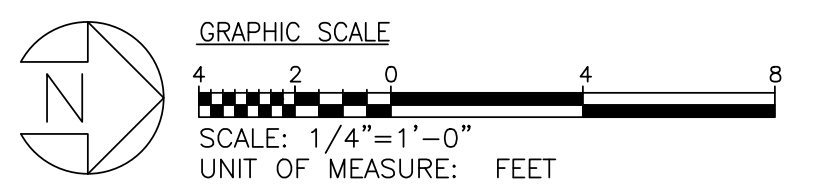
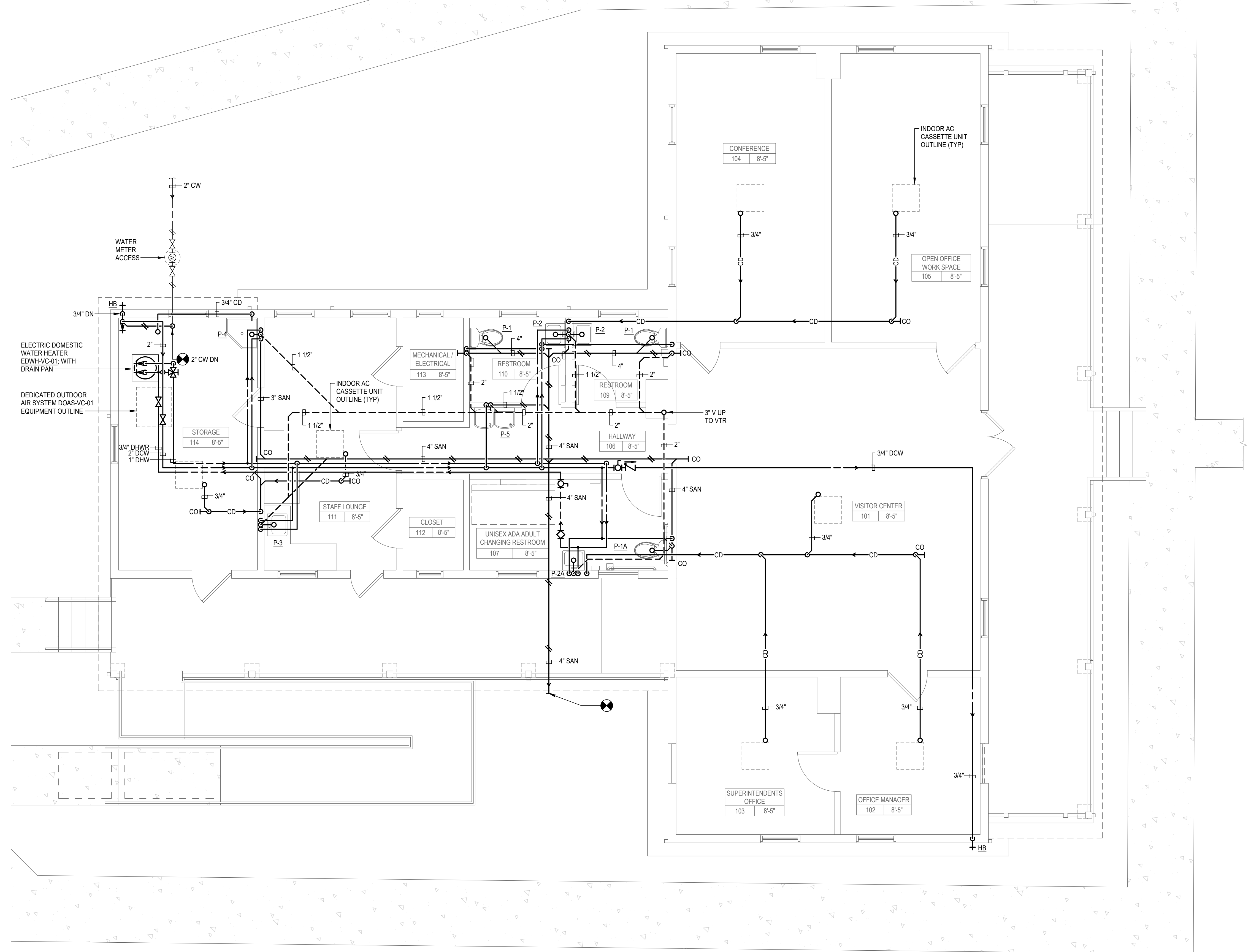
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

DATE: 9-25-2023
SCALE: NONE
DRAWN BY: DVC
CHECKED BY: RK3
SHEET NO. 52 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908
FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD PASADENA, MD 21122
MECHANICAL CONTROL SCHEMATICS
M301

GENERAL NOTE:

- OVERHEAD DOMESTIC WATER & CONDENSATE DRAIN SERVICE LINES WITHIN THE PITCHED ROOF SHALL BE INSTALLED ABOVE THE HEIGHT OF THE BOTTOM CHORD OF THE STRUCTURAL ROOF TRUSSES AND ROUTED BETWEEN TRUSS OPENINGS.
- LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.



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ARCHITECTS
15 West Mulberry Street
Baltimore, Maryland 21201-4406
Telephone Number: 410-234-8444

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NO.	DESCRIPTION	BY	DATE

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

**ANNE ARUNDEL COUNTY
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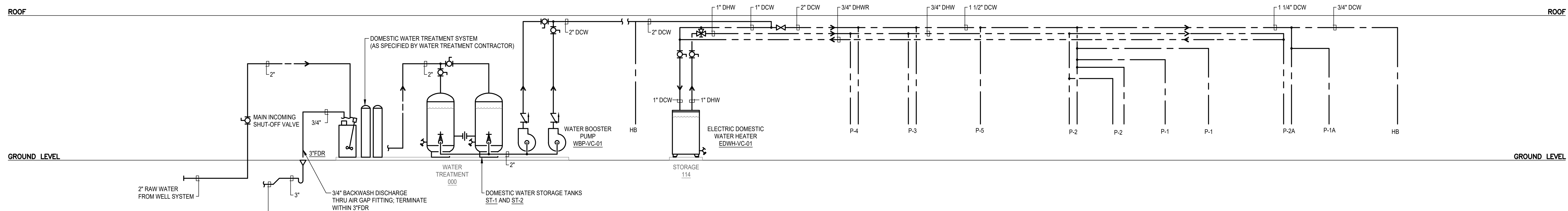
DATE: 9-25-2023

SCALE: 1/4"=1'-0"
DRAWN BY: DVC
CHECKED BY: RK3
SHEET NO. 53 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

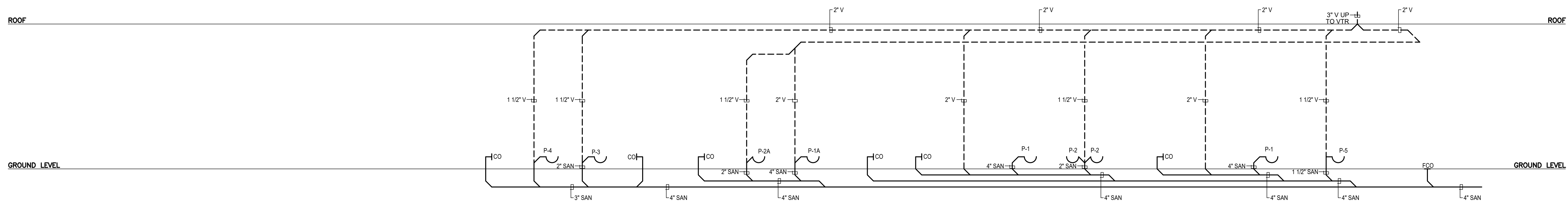
FORT SMALLWOOD PARK PHASE IIB
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9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

**PLUMBING
NEW WORK FLOOR PLAN**

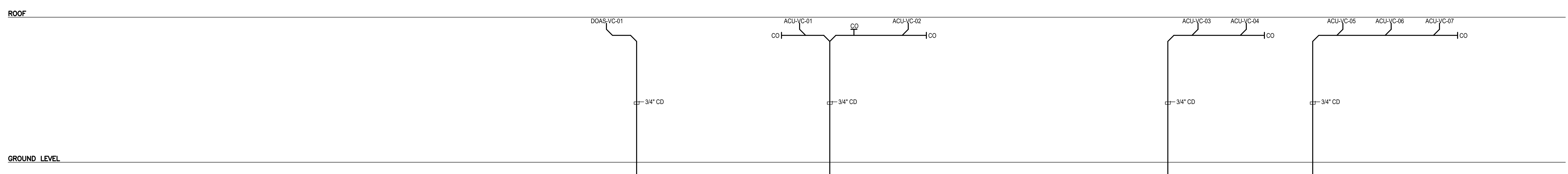
P101



DOMESTIC WATER - TREATMENT AND VISITOR CENTER
SCALE: NONE



SANITARY & VENT - TREATMENT AND VISITOR CENTER
SCALE: NONE



STORM/CONDENSATE - TREATMENT AND VISITOR CENTER
SCALE: NONE

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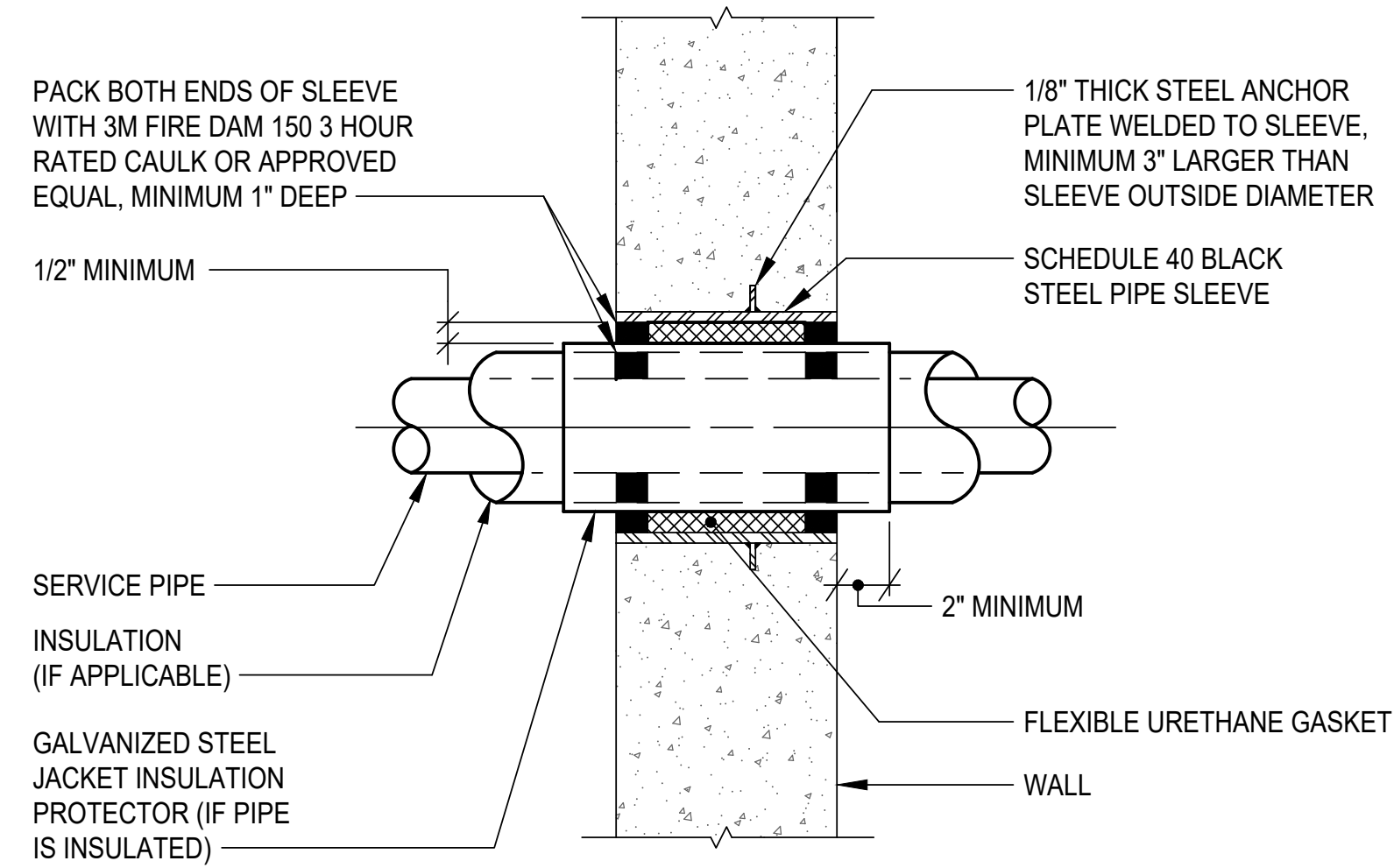
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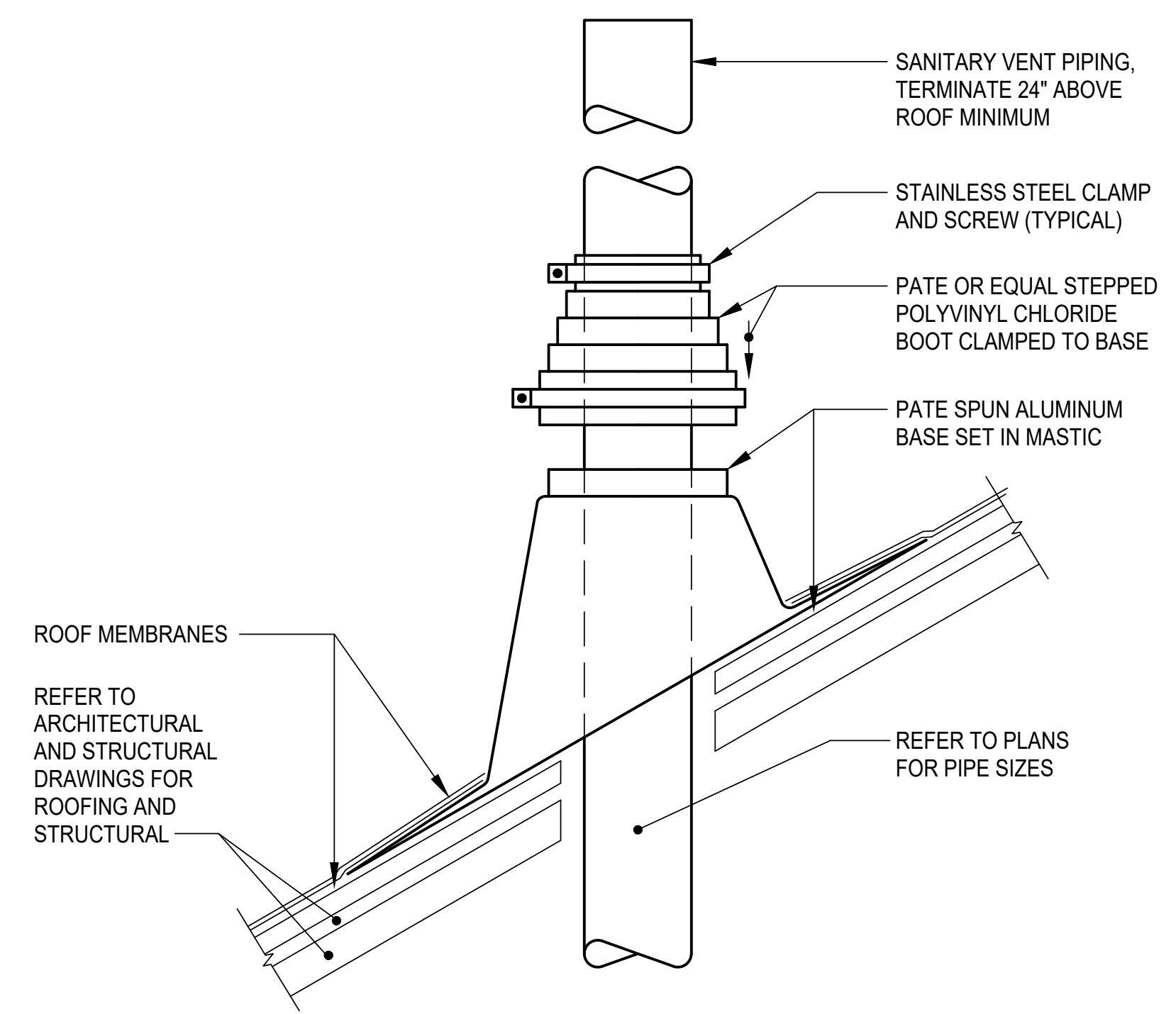
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				DATE: 9-25-2023
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: NONE	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122	
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: DVC	PLUMBING RISERS	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: RK3	P201	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT OF WAY _____	SHEET NO. 54 OF 65		
		PROJECT NO. P535900		
		CONTRACT NO. P535908		



NOTE:
1. PROVIDE STAINLESS STEEL PIPE SLEEVE WHEN EMBEDDED IN SHIELDING CONCRETE.

DETAIL - PIPE SLEEVE

SCALE: NONE **1**

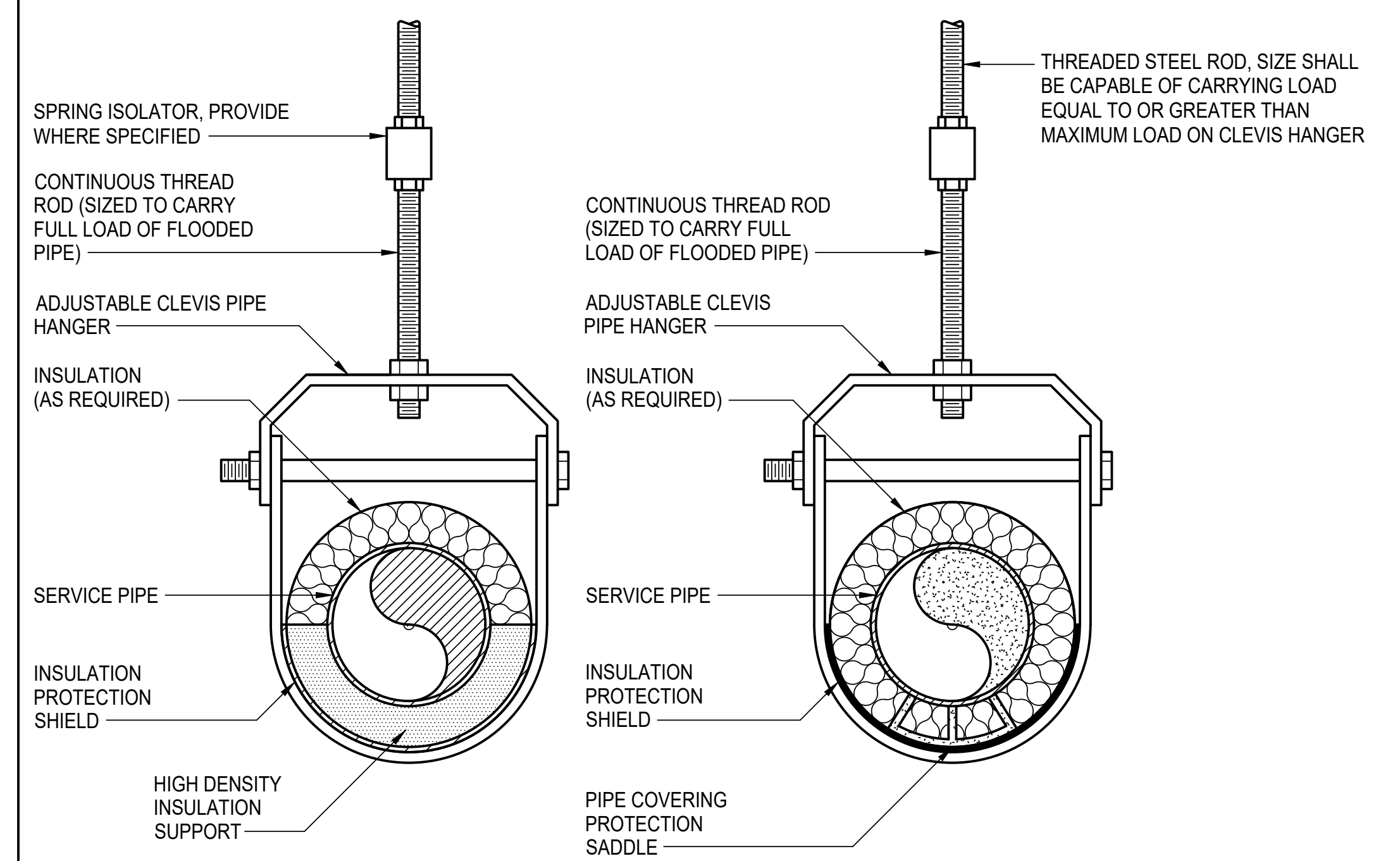


REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ROOFING AND STRUCTURAL

REFER TO PLANS FOR PIPE SIZES

DETAIL - SANITARY VENT THRU ROOF

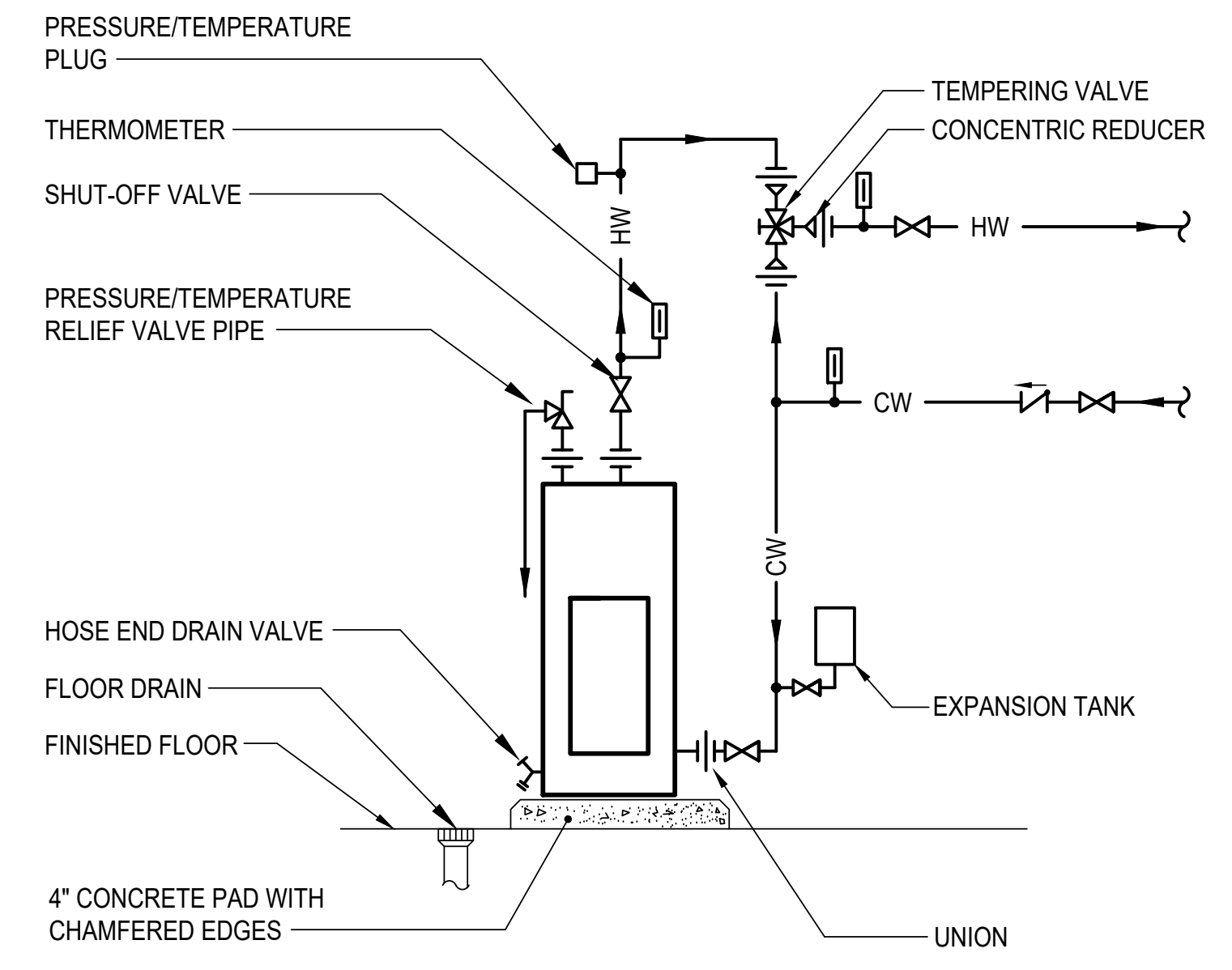
SCALE: NONE **2**



NOTES:
1. ATTACH HANGER TO BUILDING STRUCTURE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
2. DETERMINE HANGER ROD SIZE AND HANGER SPACING IN ACCORDANCE WITH HANGER MANUFACTURER'S RECOMMENDATIONS.
3. FOR NON-INSULATED SERVICE PIPE, PLACE PIPE DIRECTLY ON HANGER.
4. PIPE COVERING PROTECTION SADDLE SHALL NOT BE INSTALLED ON SERVICE PIPES REQUIRING VAPOR RETARDER.

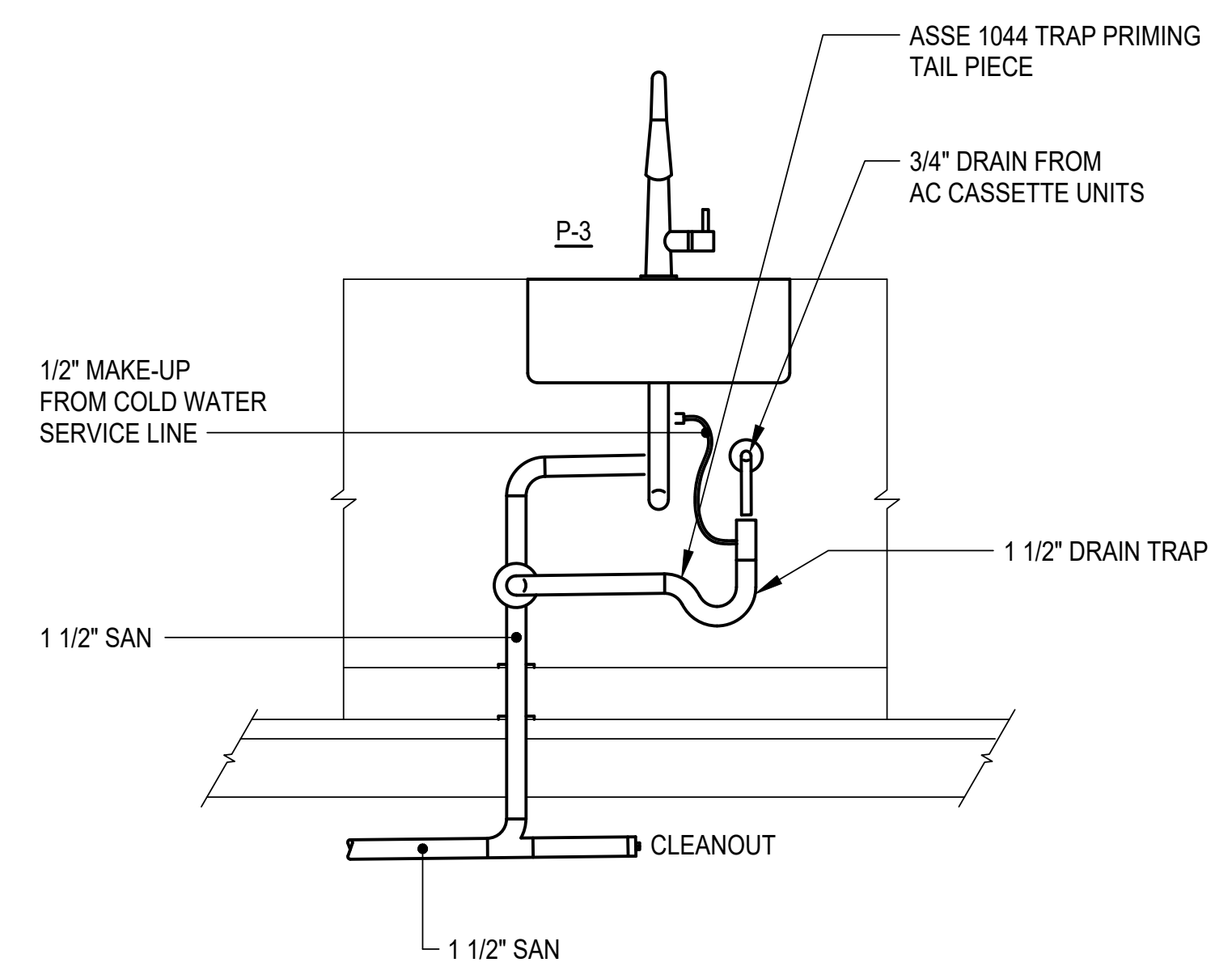
DETAIL - PIPE HANGER SUPPORT (10" OR SMALLER)

SCALE: NONE **3**



DETAIL - DOMESTIC WATER HEATER PIPING (EDWH-VC-01)

SCALE: NONE **4**



DETAIL - CONDENSATE DRAIN CONNECTION

SCALE: NONE **5**

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NO.	DESCRIPTION	BY	DATE

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

**ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS**

DATE: 9-25-2023
FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122
**PLUMBING
DETAILS**
P301

SCALE: NONE
DRAWN BY: DVC
CHECKED BY: RK3
SHEET NO. 55 OF 65
PROJECT NO. P535900
CONTRACT NO. P535908

PLUMBING FIXTURE SCHEDULE												
DESIGNATION	FIXTURE	ROUGH-IN CONNECTION				FIXTURE UNITS			FLOW RATE		BASIS OF DESIGN	REMARKS
		CW	HW	SAN	VENT	CW	HW	SAN	GPM	GPF		
P-1	WATER CLOSET	1"	-	4"	2"	10	-	6	-	1.28	AS 2234.001	FLOOR MOUNTED; HARD WIRED FLUSH VALVE
P-1A	WATER CLOSET-ACCESSIBLE	1"	-	4"	2"	10	-	6	-	1.28	AS 3461.001	FLOOR MOUNTED; HARD WIRED FLUSH VALVE
P-2	LAVATORY	1/2"	1/2"	2"	1 1/2"	1.5	1.5	1	0.5	-	ZURN Z-5006.01	WALL HUNG CARRIER; HARD WIRED TOUCHLESS FAUCETS
P-2A	LAVATORY-ACCESSIBLE	1/2"	1/2"	2"	1 1/2"	1.5	1.5	1	0.5	-	ZURN Z-5006.01	WALL HUNG CARRIER; HARD WIRED TOUCHLESS FAUCETS
P-3	KITCHEN SINK-ACCESSIBLE	1/2"	1/2"	2"	1 1/2"	1.5	1.5	1	0.5	-	ELKAY ELUHAD2115	COUNTERTOP DROP-IN; SS WITH SINGLE LEVER ADA FAUCET
P-4	MOP SINK	1/2"	1/2"	3"	1 1/2"	2.25	2.25	3	1.5	-	FIAT MSBIDTG2424	
P-5	DRINKING FOUNTAIN (INT)	1/2"	-	2"	1 1/2"	.5	-	1	-	-	ELKAY EDFPBM117FPK	WALL HUNG; ADA, NON-REFRIGERATED WITH BOTTLE FILLER



DOMESTIC WATER HEATER SCHEDULE											
DESIGNATION	SERVICE	EWT °F	LWT °F	STOR. GALS.	HEAT CAPACITY BTUH	RECOVERY GPH @ 100° RISE	ELECTRIC		BASIS OF DESIGN	REMARKS	
							VOLT/PH	KW			
EDWH-VC-01	VISITOR CENTER	40	140	50	-	37	240/1	9.0	STATE WATER HEATERS - CSB529SFE	①	

① TIE INTO CONTROLLER FOR STATUS AND ALARM.

ELECTRIC UNIT/WALL HEATER SCHEDULE					
DESIG	SERVICE	HEATING CAPACITY kW	ELECTRICAL V/Ø/HZ	BASIS OF DESIGN	REMARKS
EUH-VC-01	MECHANICAL WATER TREATMENT ROOM (VISITOR CENTER)	2	240/1/60	TRANE UHEC	55°F SETPOINT ①
EWUH-VC-01	RESTROOM 110 (VISITOR CENTER)	2	240/1/60	TRANE UHWA	WALL MOUNTED ①
EWUH-VC-02	RESTROOM 109 (VISITOR CENTER)	2	240/1/60	TRANE UHWA	WALL MOUNTED ①
EWUH-VC-03	UNISEX ADA ADULT CHANGING RESTROOM 107 (VISITOR CENTER)	2	240/1/60	TRANE UHWA	WALL MOUNTED ①

① PROVIDE INTEGRAL DISCONNECT WITH EQUIPMENT.

PUMP SCHEDULE					
DESIG	GPM	FT/H2O	ELECTRICAL V/Ø/HZ	TYPE	MANUFACTURER
CP-1	4	6.0	120/1/60	IL	TACO - 007E

 15 West Mulberry Street Baltimore, Maryland 21201-4406 Telephone Number: 410-234-8444	 5520 RESEARCH PARK DRIVE SUITE 300 BALTIMORE, MD 21228 410.576.0505 www.rmf.com	<small>*PROFESSIONAL CERTIFICATION I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER 46165, EXPIRATION DATE 01/12/2024.*</small> <small>(C) RMF ENGINEERS, INC. ALL REPRODUCTION IS PROHIBITED</small>	NO.	DESCRIPTION	BY	DATE	ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			DATE: 9-25-2023
			APPROVED	DATE	APPROVED	DATE	SCALE: NONE	FORT SMALLWOOD PARK PHASE IIB BARRACKS REHABILITATION/VISITOR CENTER 9500 FORT SMALLWOOD ROAD PASADENA, MD 21122		
CHIEF ENGINEER		PROJECT MANAGER		CHECKED BY: RK3						
APPROVED	DATE	APPROVED	DATE	SHEET NO. 56 OF 65						
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY		PROJECT NO. P535900						
				CONTRACT NO. P535908						

SYMBOL	DESCRIPTIONS	MH (UON)
	WIREFOLD	
	DUPLEX RECEPTACLE	18" CTR
	SPECIAL RECEPTACLE	
	GROUND FAULT INTERRUPTER TYPE RECEPTACLE	18" CTR
	NON-FUSED DISCONNECT SWITCH	
	MANUAL MOTOR STARTER WITH THERMAL OVERLOADS	
	PANELBOARD	
	DISTRIBUTION PANELBOARD	
	TRANSFORMER	
	CIRCUIT CONCEALED IN WALLS OR CEILING SPACE. CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT, (UNLESS OTHERWISE NOTED)	
	RACEWAY CONCEALED IN SLAB OR BELOW GRADE.	
	BRANCH CIRCUIT HOMERUN TO PANELBOARD. QUANTITY OF CIRCUITS INDICATED BY ARROWS (→). NUMBER OF CONDUCTORS SHALL BE MINIMUM 4#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT, (UNLESS OTHERWISE NOTED)	
	RACEWAY RUN EXPOSED. CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG IN 3/4" CONDUIT, (UNLESS OTHERWISE NOTED)	

SYMBOL	DESCRIPTIONS	MH (UON)
	SINGLE POLE TOGGLE SWITCH	48" TOD
	THREE-WAY TOGGLE SWITCH. SEE GEN NOTE 6.	48" TOD
	WALL MOUNTED OCCUPANCY SENSOR. SEE GEN NOTE 6.	48" TOD
	LIGHTING FIXTURE - RECESSED, SURFACE, OR PENDANT MOUNTED, TYPE AS SPECIFIED	
	LINEAR LIGHTING FIXTURE - WALL MOUNTED.	
	LIGHTING FIXTURE - WALL MOUNTED TYPE AS SPECIFIED	
	EMERGENCY BATTERY PACK WITH REMOTE HEADS	
	EXIT SIGN - CEILING OR PENDANT MOUNTED (SHADED PORTION INDICATES FACE)	
	EXIT SIGN - WALL MOUNTED - END, BACK	
	EXIT SIGN WITH DIRECTIONAL ARROWS - WALL MOUNTED-END, BACK	
	PHOTOCELL	

SYMBOL	DESCRIPTIONS	MH (UON)
	WALL MOUNTED FIRE ALARM FLASHING STROBE LIGHT	GENERAL NOTES 7,8
	WALL MOUNTED COMBINATION FIRE ALARM FLASHING STROBE LIGHT AND HORN	GENERAL NOTES 7,8
	DATA OUTLET, FLOOR MOUNTED	
	DATA OUTLET WALL MOUNTED	18" CTR

ELECTRICAL ABBREVIATIONS	
A, AMP	- AMPERE
AC	- ALTERNATING CURRENT
A/C	- AIR CONDITIONING
AFC	- ABOVE FINISHED CEILING
AFCI	- ARC FAULT CIRCUIT INTERRUPTOR
AFI	- ABOVE FINISHED FLOOR
AFG	- ABOVE FINAL GRADE
AHU	- AIR HANDLING UNIT
AIC	- AMPS INTERRUPTING CAPACITY
ALT	- ALTERNATE
ANN	- ANNUNCIATOR
APPROX	- APPROXIMATELY
ARCH	- ARCHITECT
ATC	- AUTOMATIC TEMPERATURE CONTROL
ATS	- AUTOMATIC TRANSFER SWITCH
AWG	- AMERICAN WIRE GAUGE
BAS	- BUILDING AUTOMATION SYSTEM
BFC	- BELOW FINISHED CEILING
BFG	- BELOW FINISHED GRADE
BLDG	- BUILDING
BOD	- BOTTOM OF DEVICE
C, CND	- CONDUIT
CATV	- CABLE TELEVISION
CB	- CIRCUIT BREAKER
CCTV	- CLOSED CIRCUIT TELEVISION
CKT	- CIRCUIT
CL	- CURRENT LIMITING
CLG	- CEILING
CONN	- CONNECT
CPT	- CONTROL POWER TRANSFORMER
CT	- CURRENT TRANSFORMER
CTR	- CENTER
CU,CO	- COPPER
CX	- CONNECT TO EXISTING
DC	- DIRECT CURRENT
DISC	- DISCONNECT
DN	- DOWN
DP	- DISTRIBUTION PANEL
DPST	- DOUBLE POLE SINGLE THROW
DPDT	- DOUBLE POLE DOUBLE THROW
DT	- DOUBLE THROW
DWG	- DRAWING
E,EM,EMRG	- EMERGENCY
EA	- EACH
EC	- EMPTY CONDUIT
EF	- EXHAUST FAN
EH	- ELECTRIC HEATER
ELEC	- ELECTRIC
ELEV	- ELEVATION
ELR	- EMERGENCY LTG CONTROL RELAY
EMT	- ELECTRICAL METALLIC TUBING
ETR	- EXISTING TO REMAIN
EX	- EXISTING
EXP	- EXPOSED
EWC	- ELECTRIC WATER COOLER
FR	- FRAME
FA	- FIRE ALARM
FAAP	- FIRE ALARM ANNUNCIATOR PANEL
FACP	- FIRE ALARM CONTROL PANEL
FBO	- FURNISHED BY OTHERS
FC	- FAN COIL
FDR	- FEEDER
FLA	- FULL LOAD AMPERES
FLR	- FLOOR
FU	- FUSED AND FUSIBLE
FUSS	- FUSED SAFETY SWITCH
FVR	- FULL VOLTAGE REVERSING
FVNR	- FULL VOLTAGE NON-REVERSING
GEN	- GENERATOR, GENERAL
GFI	- GROUND FAULT INTERRUPTER
GFR	- GROUND FAULT RELAY
GRD, GND	- GROUND
GRS	- GALVANIZED RIGID STEEL
HID	- HIGH INTENSITY DISCHARGE
HOA	- HAND-OFF-AUTOMATIC
HP	- HORSEPOWER
HPS	- HIGH PRESSURE SODIUM
HTR	- HEATER
HV	- HIGH VOLTAGE
HZ	- HERTZ
IG	- ISOLATED GROUND
JB	- JUNCTION BOX
KCML	- THOUSAND CIRCULAR MILS
KV	- KILOVOLTS
KVA	- KILOVOLT AMPERES
KVAR	- KILOVOLT AMPERES REACTIVE
KW	- KILOWATTS
KWH	- KILOWATT HOUR
LA	- LIGHTNING ARRESTOR
LC	- LIGHTING CONTACTOR
LTG	- LIGHTING
LTNG	- LIGHTNING
LP	- LIGHTING PANEL
LRA	- LOCKED ROTOR AMPERES
MATV	- MASTER ANTENNA TELEVISION
MCB	- MAIN CIRCUIT BREAKER
MCC	- MOTOR CONTROL CENTER
MEH	- METAL HALIDE
MH	- MANHOLE, MOUNTING HEIGHT
MLO	- MAIN LUGS ONLY
MS	- THERMAL MANUAL MOTOR STARTER
MSP	- MOTOR STARTER PANEL
MTD	- MOUNTED
MV	- MERCURY VAPOR
NC	- NORMALLY CLOSED
NEC	- NATIONAL ELECTRICAL CODE
NFSS	- NON-FUSED SAFETY SWITCH
NO	- NUMBER, NORMALLY OPEN
OC	- ON CENTER
OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	- OWNER FURNISHED OWNER INSTALLED
OH	- OVERHEAD
Ø, PH	- PHASE
P	- POLE
PB	- PUSHBUTTON
PF	- POWER FACTOR
PFCC	- POWER FACTOR CORRECTION CAPACITOR
PL	- PILOT LIGHT
PLC	- PROGRAMMABLE LIGHTING CONTROL
PNL	- PANEL
PP	- POWER PANEL
PR	- PAIR
PT	- POTENTIAL TRANSFORMER
PVC	- POLYVINYL CHLORIDE
Pp	- PUMP
QTY	- QUANTITY
RCS	- REMOTE CONTROL SWITCH
REC,RECPT	- RECEPTACLE
REL, RL	- EXISTING TO BE RELOCATED/RELOCATED
REQ'D	- REQUIRED
RFI	- RADIO FREQUENCY INTERFERENCE
RGS	- RIGID GALVANIZED STEEL
RLA	- RUNNING LOAD AMPERES
RM	- ROOM
RVAT	- REDUCED VOLTAGE AUTO TRANSFORMER
RX	- REMOVE EXISTING
SC	- SURGE CAPACITOR
SEC	- SECONDARY
SN, S/N	- SOLID NEUTRAL
SP	- SURGE PROTECTION
SPDT	- SINGLE POLE DOUBLE THROW
SS	- SAFETY SWITCH
SST	- SOLID STATE
ST	- SINGLE THROW
SW	- SWITCH
SWBD	- SWITCHBOARD
SWGR	- SWITCHGEAR
T	- TRANSFORMER
TBR	- TO BE REMOVED
TC	- TIME CLOCK
TEL, TELE	- TELEPHONE
TOD	- TOP OF DEVICE
TH	- TUNGSTEN HALOGEN
TTB	- TELEPHONE TERMINAL BOARD
TW	- TWISTED
TYP	- TYPICAL
UC	- UNDERCABINET
UG	- UNDERGROUND
UH	- UNIT HEATER
UON	- UNLESS OTHERWISE NOTED
V	- VOLTS
VFD	- VARIABLE FREQUENCY DRIVE
W	- WATTS, WIRE
W/	- WITH
WP	- WEATHER-PROOF
XFMR	- TRANSFORMER
XP	- EXPLOSION PROOF
2S1W	- 2 SPEED SINGLE WINDING
2S2W	- 2 SPEED DOUBLE WINDING

ELECTRICAL DRAWING PRESENTATION

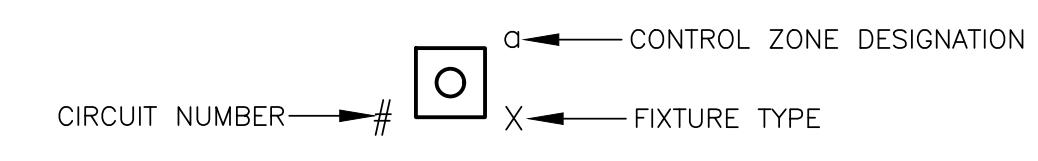
	REVISION NUMBER 2
	DRAWING NOTE NUMBER 2
	EQUIPMENT TAG NUMBER - REFER TO EQUIPMENT SCHEDULE
	DEMOLITION LINE TYPE ON DEMOLITION DRAWINGS
	SECTION/ELEVATION IDENTIFICATION
	PART PLAN AND DETAIL IDENTIFICATION
	EXISTING LINE TYPE
	NEW ELECTRICAL WORK LINE TYPE
	FUTURE ELECTRICAL WORK LINE TYPE
	DEMOLITION ELECTRICAL WORK LINE TYPE

- GENERAL NOTES:**
- THIS IS A STANDARD SYMBOL LIST, SOME SYMBOLS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.
 - REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
 - PLAN & SECTION SYMBOLS MAY ALSO BE USED ON RISER DIAGRAMS.
 - ON SINGLE LINE DIAGRAMS FOR 3 PHASE SYSTEMS, DEVICE QUANTITY = 3 UNLESS OTHERWISE NOTED.
 - UNLESS OTHERWISE NOTED ALL INTERIOR CONDUITS AND BOXES SHALL BE CONCEALED.
 - LOWERCASE LETTER (a) DESIGNATES FIXTURES CONTROLLED. IF NO DESIGNATION IS PROVIDED, ALL LIGHTS IN ROOM/ZONE SHALL BE CONTROLLED.
 - DEVICE SHALL BE MOUNTED A MINIMUM OF 80" AFF TOP OF DEVICE AND BELOW THE FINISHED CEILING OF NOT LESS THAN 6".
 - NUMERAL NEXT TO DEVICE INDICATES CANDELA RATING.

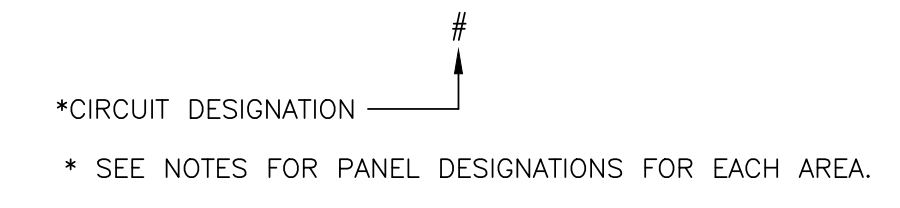
CONDUCTOR RATING SCHEDULE

Conductor Length (ft) for 12A Load at 3% voltage drop	120V		277V	
	#12	#10	#8	#6
80	130	200	315	185
185	310	470	735	

LIGHTING CIRCUIT FIXTURE DESIGNATIONS



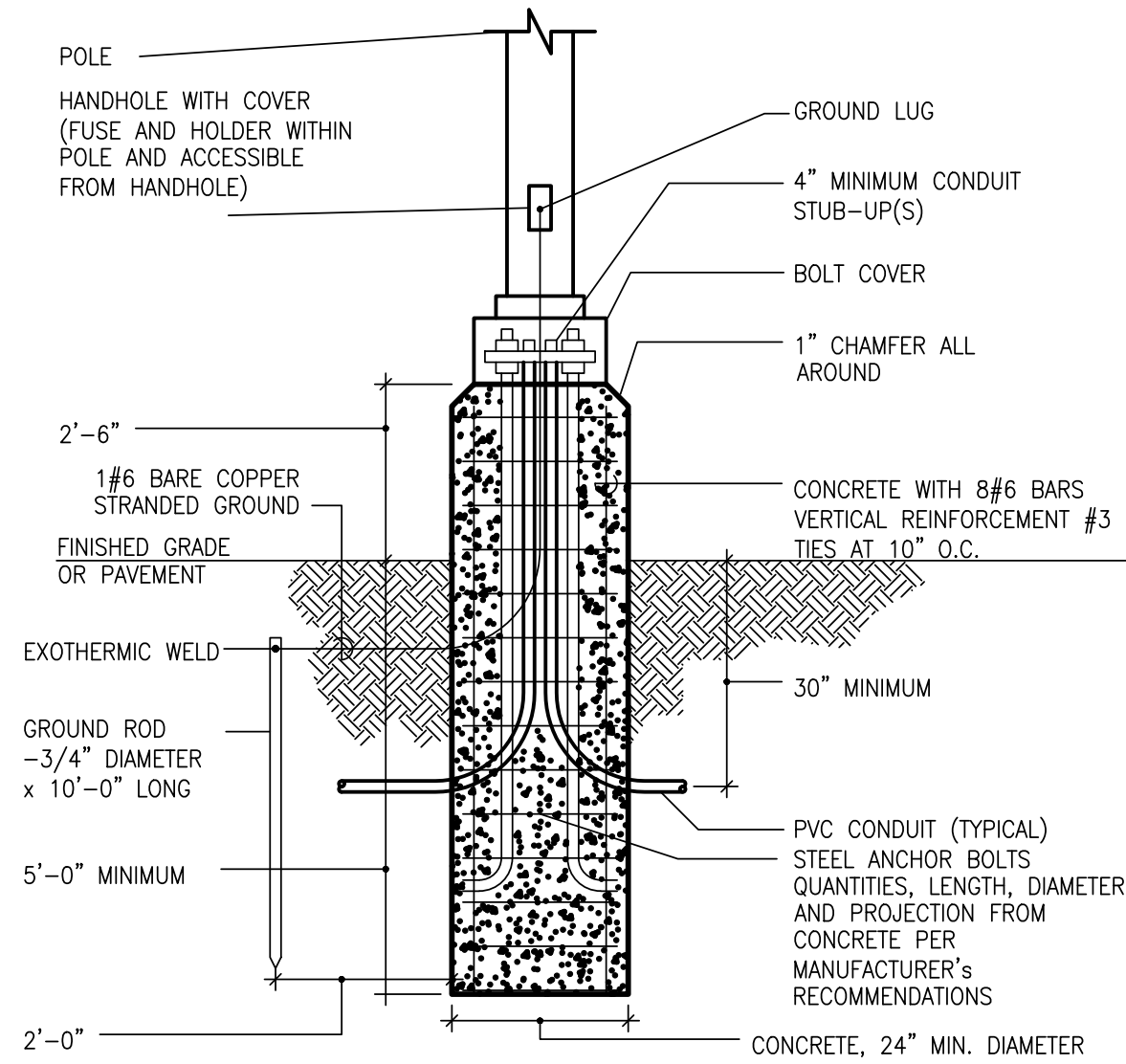
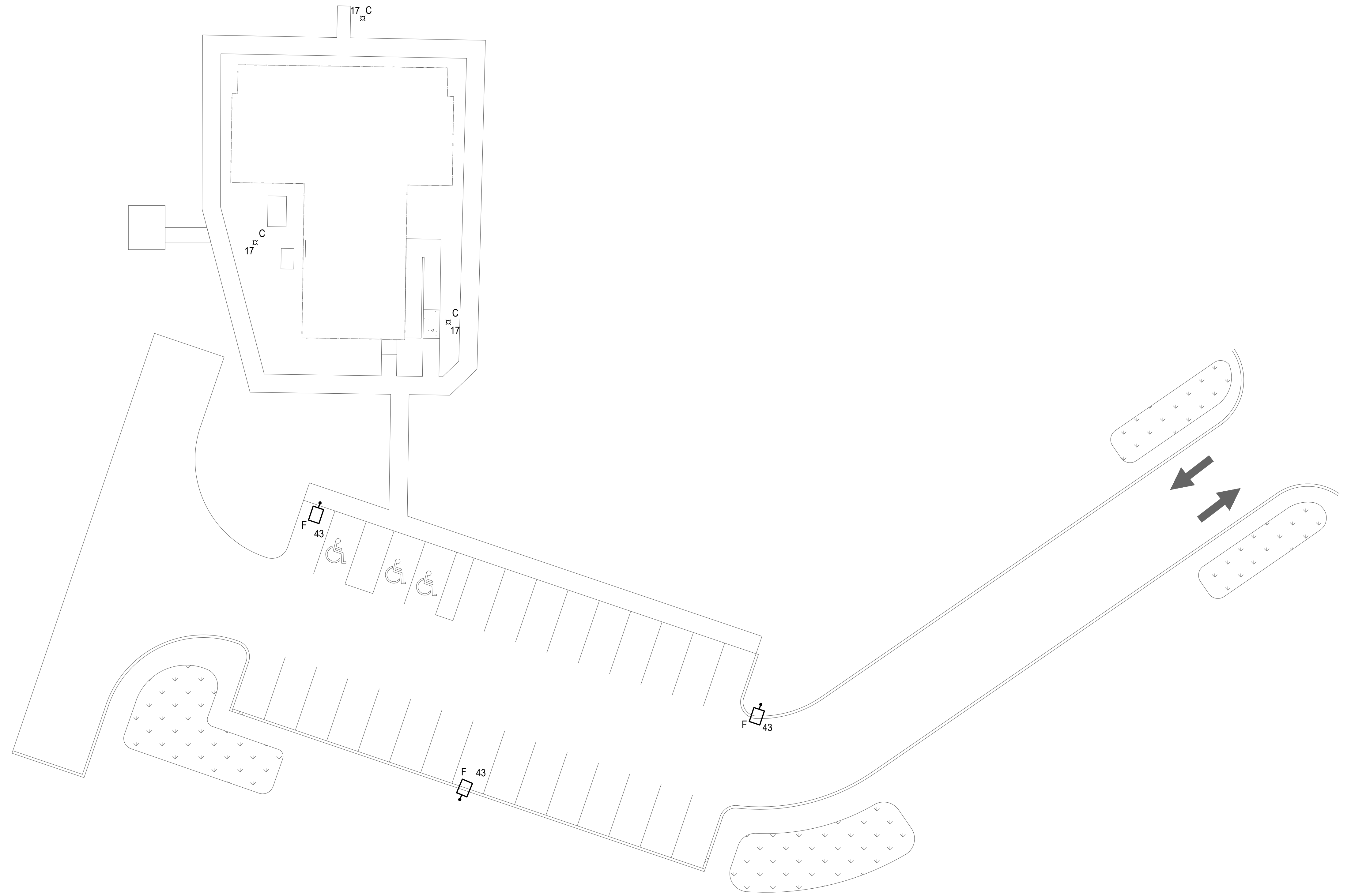
CIRCUIT



 15 West Mulberry Street Baltimore, Maryland 21201-4406 Telephone Number: 410-234-8444	 5520 RESEARCH PARK DRIVE SUITE 300 BALTIMORE, MD 21228 410.576.0505 www.rmfm.com	ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS DATE: 9-25-2023			
		NO. DESCRIPTION BY DATE	APPROVED DATE CHIEF ENGINEER	APPROVED DATE PROJECT MANAGER	SCALE: DRAWN BY: WV CHECKED BY: SLD
APPROVED DATE ASSISTANT CHIEF ENGINEER	APPROVED DATE CHIEF, RIGHT OF WAY	SHEET NO. 57 OF 65 PROJECT NO. P535900 CONTRACT NO. P535908	ELECTRICAL LEGEND & ABBREVIATIONS	E001	

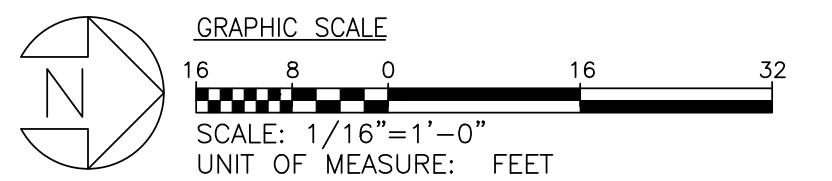
GENERAL NOTES:

1. SITE LIGHTING SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
2. LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF ALL SURFACED ARE TO BE CLEANED OF VISIBLE DEBRIS.



DETAIL - LIGHTING POLE BASE
SCALE: NONE

SITE PLAN - VISITOR CENTER BUILDING
SCALE: 1/16" = 1'-0"



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NO.	DESCRIPTION	BY	DATE

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ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

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

DRAWN BY: **VMV**
CHECKED BY: **SLD**

SHEET NO. **58** OF **65**
PROJECT NO. P535900
CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
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ELECTRICAL
SITE PLAN

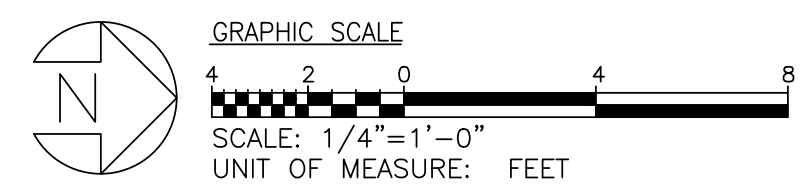
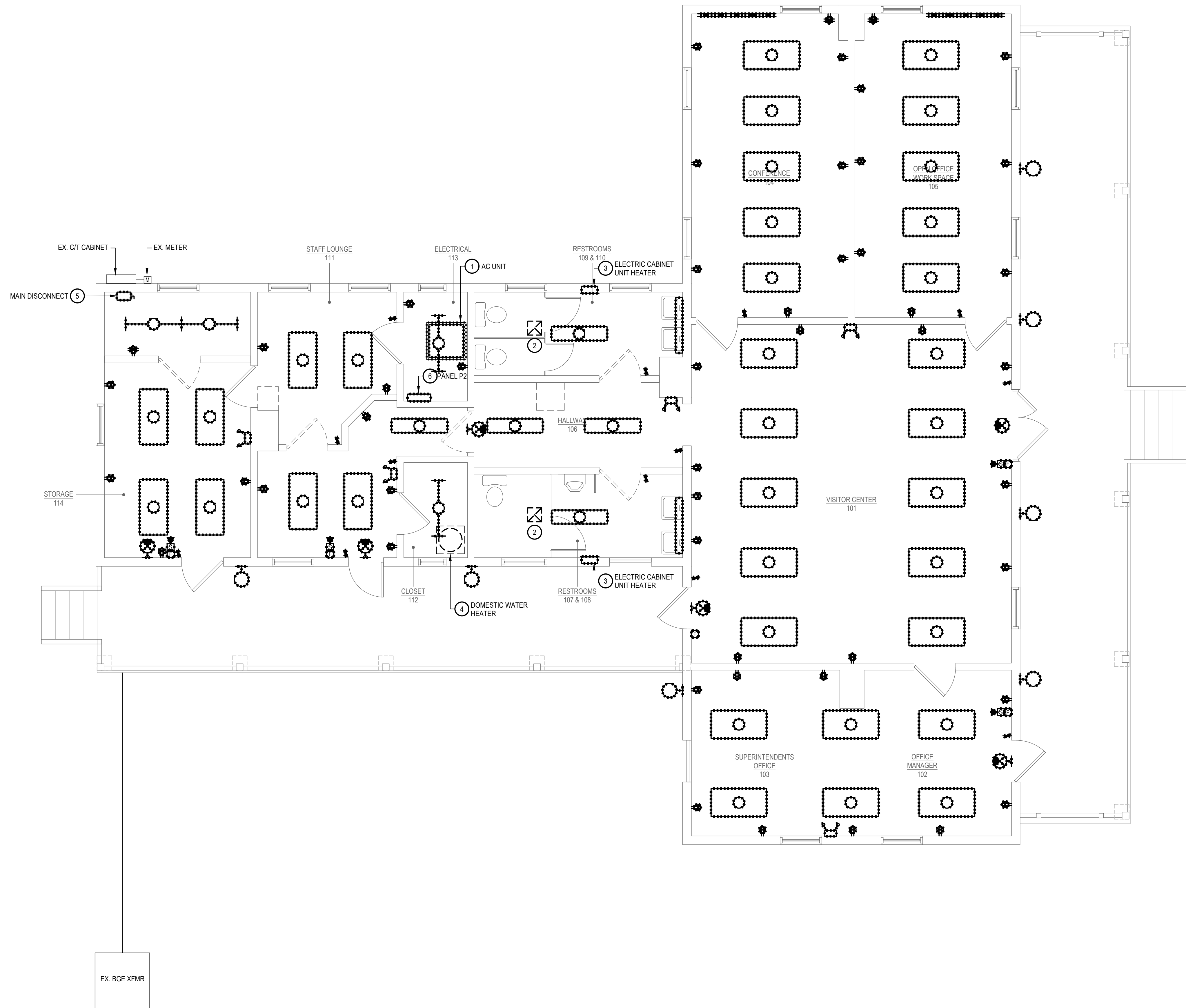
ES101

GENERAL NOTES:

- COORDINATE ALL ELECTRICAL OUTAGES WITH THE OWNER AT LEAST FOURTEEN (14) WORKING DAYS IN ADVANCE OF THE REQUIRED OUTAGE. PREFORM ALL OUTAGES IN ACCORDANCE WITH THE OWNERS SCHEDULE.
- PRIOR TO THE COMMENCEMENT OF DEMOLITION, COORDINATE ALL ITEMS TO BE DEMOLISHED WITH THE OWNER. ALL ELECTRICAL EQUIPMENT REQUESTED TO BE RETAINED BY THE OWNER SHALL BE REMOVED IN ITS ENTIRETY AND PLACED IN OWNERS ON-SITE STORAGE WHERE DIRECTED BY THE OWNER. ALL OTHER ELECTRICAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE EXPEDITIOUSLY REMOVED FROM THE PROJECT SITE.
- REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT IN ITS ENTIRETY; OUTLET BOXES, JUNCTION BOXES, HANGERS, SUPPORTS, STRAPS, ETC, ASSOCIATED WITH EACH PIECE OF ELECTRICAL EQUIPMENT DEMOLISHED.
- RECONNECT CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT NOTED TO REMAIN AS WELL AS ADJACENT AREAS WHICH ARE NOT IN CONTRACT.
- MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND FEEDERS PASSING THROUGH RENOVATED AREAS AND SERVING UNDISTURBED AREAS.
- LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF ALL SURFACED ARE TO BE CLEANED OF VISIBLE DEBRIS.

DRAWING NOTES:

- EXISTING AIR CONDITIONING UNIT ALONG WITH CONTROL CONNECTIONS TO BE REMOVED
- EXISTING EXHAUST FAN AND ASSOCIATED ELECTRICAL CONNECTIONS TO BE REMOVED
- EXISTING CABINET UNIT HEATER AND ASSOCIATED CONTROL CONNECTION TO BE REMOVED
- EXISTING CHEMICAL FEED SYSTEM AND CONTROL WIRING TO BE REMOVED
- EXISTING MAIN SERVICE DISCONNECT TO BE REMOVED
- EXISTING PANEL P2 TO BE REMOVED



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ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

DATE: 9-25-2023

**ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS**

FORT SMALLWOOD PARK PHASE IIB
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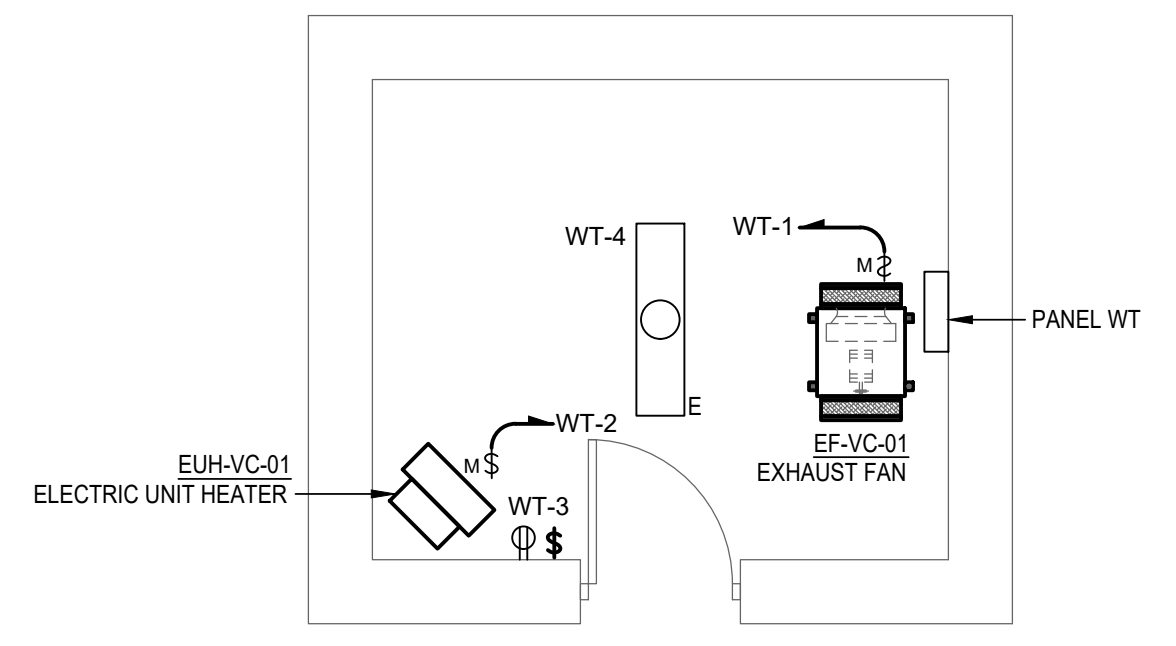
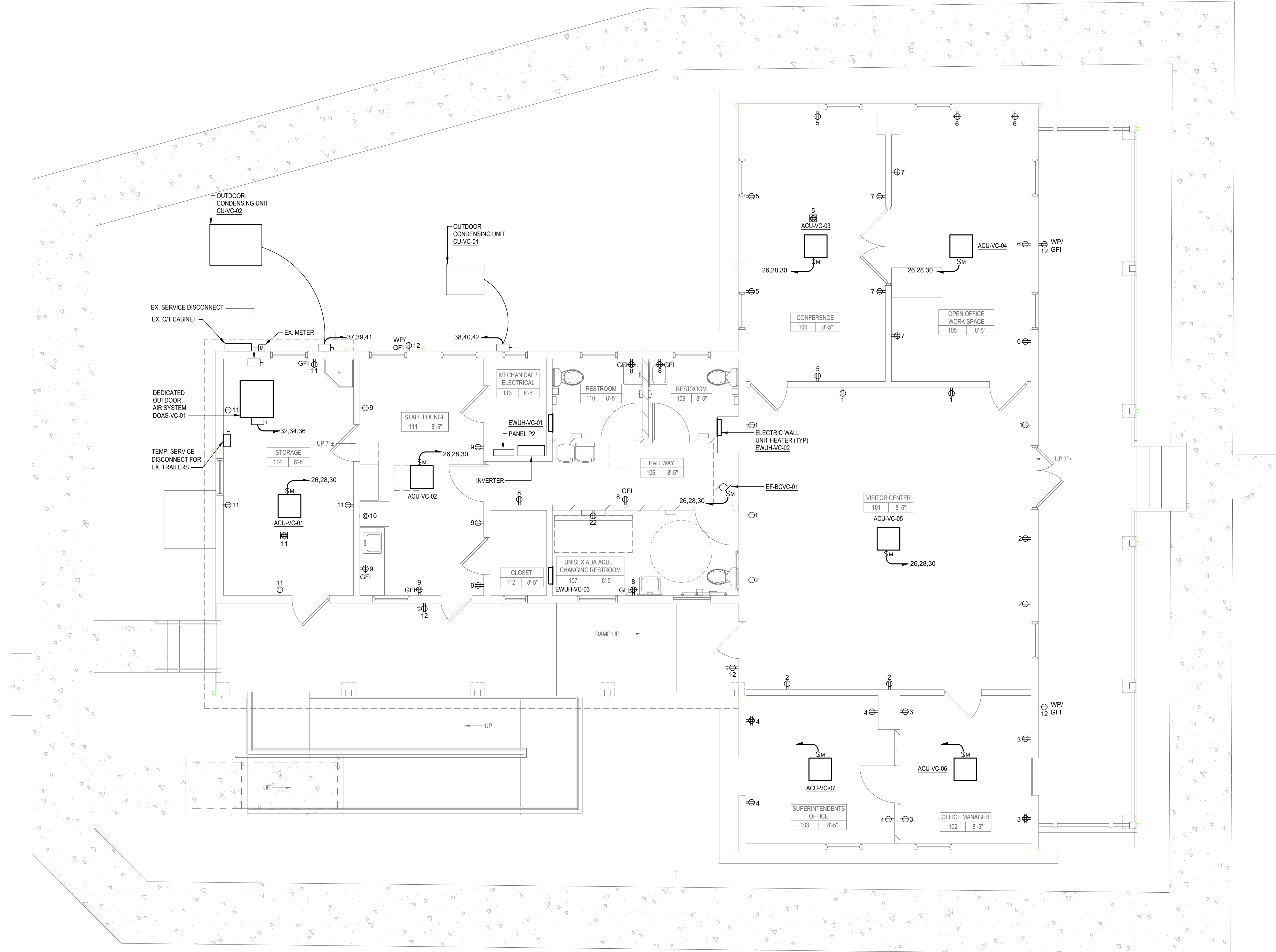
**ELECTRICAL
DEMOLITION FLOOR PLAN**

ED101

SCALE: 1/4"=1'-0"
DRAWN BY: **VMV**
CHECKED BY: **SLD**
SHEET NO. **59** OF **65**
PROJECT NO. P535900
CONTRACT NO. P535908

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK.
2. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS FOR ALL EQUIPMENT WITH TENANT AND ARCHITECT PRIOR TO ROUGH-IN.
3. COORDINATE EXACT A/V MOUNTING HEIGHTS AND LOCATIONS FOR ALL EQUIPMENT WITH TENANT AND ARCHITECT PRIOR TO ROUGH-IN.
4. CIRCUIT NUMBERS INDICATED ARE PROVIDED FOR REFERENCE AND TO INDICATE GROUPINGS ONLY. CONTRACTOR SHALL FIELD VERIFY WHICH CIRCUIT BREAKERS ARE EXISTING SPARE OR MADE AVAILABLE THROUGH DEMOLITION.
5. ALL WIRING LOCATED IN OPEN CEILING SPACES SHALL BE RUN IN CONDUIT.
6. FOR ALL EMPTY CONDUIT, PROVIDE PULL STRING WITH MINIMUM 200LB TENSILE STRENGTH.
7. LABEL ALL EMPTY CONDUITS AT BOTH ENDS, DENOTING LOCATION OF OPPOSITE END.
8. ALL EXISTING RECEPTACLES TO REMAIN WITHIN SCOPE OF WORK SHALL BE REPLACED WITH COLOR WHITE RECEPTACLES AND STAINLESS STEEL COVER PLATES.
9. LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF ALL SURFACED ARE TO BE CLEANED OF VISIBLE DEBRIS.

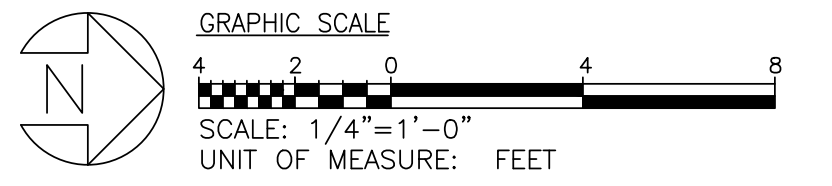


WATER TREATMENT BUILDING

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

VISITOR CENTER BUILDING

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



SINGLE LINE DIAGRAM

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

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NO.	DESCRIPTION	BY	DATE

APPROVED	DATE	APPROVED	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS
 DATE: 9-25-2023
 FORT SMALLWOOD PARK PHASE IIB
 BARRACKS REHABILITATION/VISITOR CENTER
 9500 FORT SMALLWOOD ROAD
 PASADENA, MD 21128
ELECTRICAL
NEW WORK FLOOR PLAN
E101

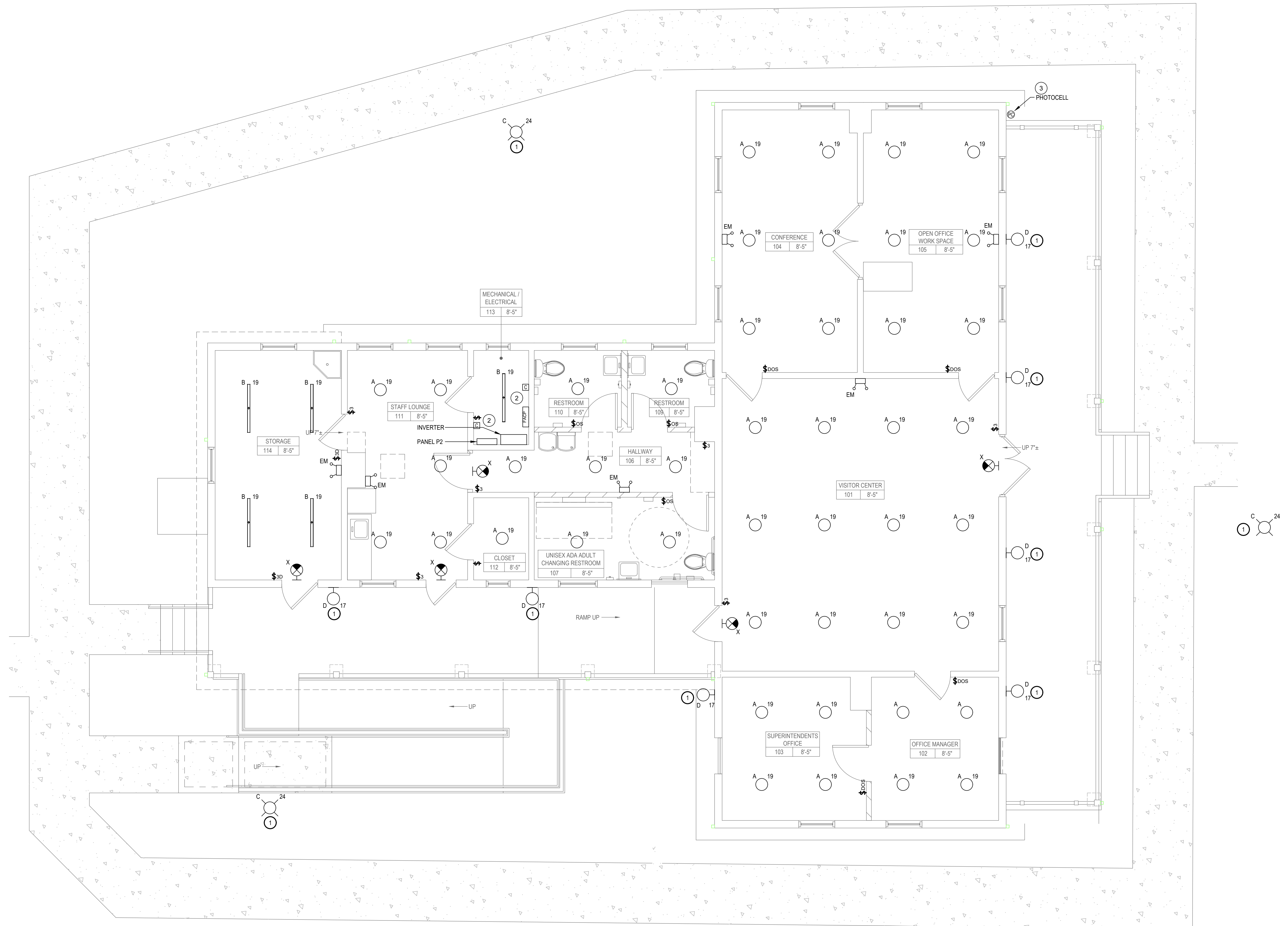
SCALE: 1/4" = 1'-0"
 DRAWN BY: **WV**
 CHECKED BY: **SLD**
 SHEET NO. **60** OF **65**
 PROJECT NO. P535900
 CONTRACT NO. P535908

GENERAL NOTES

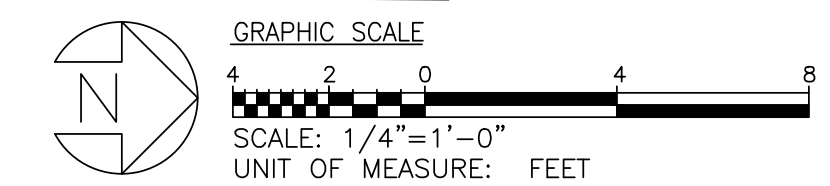
1. ALL NEW LIGHTING FIXTURES SHOWN SHALL BE CIRCUITED TO PANEL P2 UNLESS NOTED OTHERWISE.
2. REFER TO ARCHITECTURAL CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES. IN CASE OF CONFLICT IN FIXTURE QUANTITY OR LOCATION, ARCHITECTURAL DRAWINGS SHALL OVERRULE.
3. CONNECT ALL EXIT LIGHTS AND EMERGENCY BATTERY PACKS TO UNSWITCHED PORTION OF NORMAL LIGHTING CIRCUIT SERVING RESPECTIVE AREA.
4. EMERGENCY LIGHTING FIXTURES SHALL BE TESTED TO VERIFY 90 MINUTE RUN TIME COMPLIANCE IS MET.
5. ALL WIRING LOCATED IN OPEN CEILING SPACES SHALL BE RUN IN CONDUIT.
6. COORDINATE ALL CEILING MOUNTED DEVICES WITH ALL OTHER TRADES AND CEILING MOUNTED DEVICES. ADDITIONAL DEVICES SHALL BE PROVIDED AS NECESSARY TO ACCOMMODATE OTHER DEVICES AND MAINTAIN NECESSARY COVERAGE.
7. LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF ALL SURFACED ARE TO BE CLEANED OF VISIBLE DEBRIS.

DRAWING NOTES:

- 1 SUPPORTED BY CIRCUIT EXTENDED FROM INVERTER LOCATED IN MECHANICAL / ELECTRICAL 113. CIRCUIT TO BE CONTROLLED BY PHOTOCELL.
- 2 MULTI-POLE LIGHTING CONTACTS
- 3 CONTROLS FLAG LIGHTING AND TYPE C, D, AND F FIXTURES ROUTED THROUGH MULTI-POLE LIGHTING CONTACTOR.



VISITOR CENTER BUILDING
SCALE: 1/4" = 1'-0"



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Baltimore, Maryland 21201-4406
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NO.	DESCRIPTION	BY	DATE

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

**ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS**

DATE: 9-25-2023

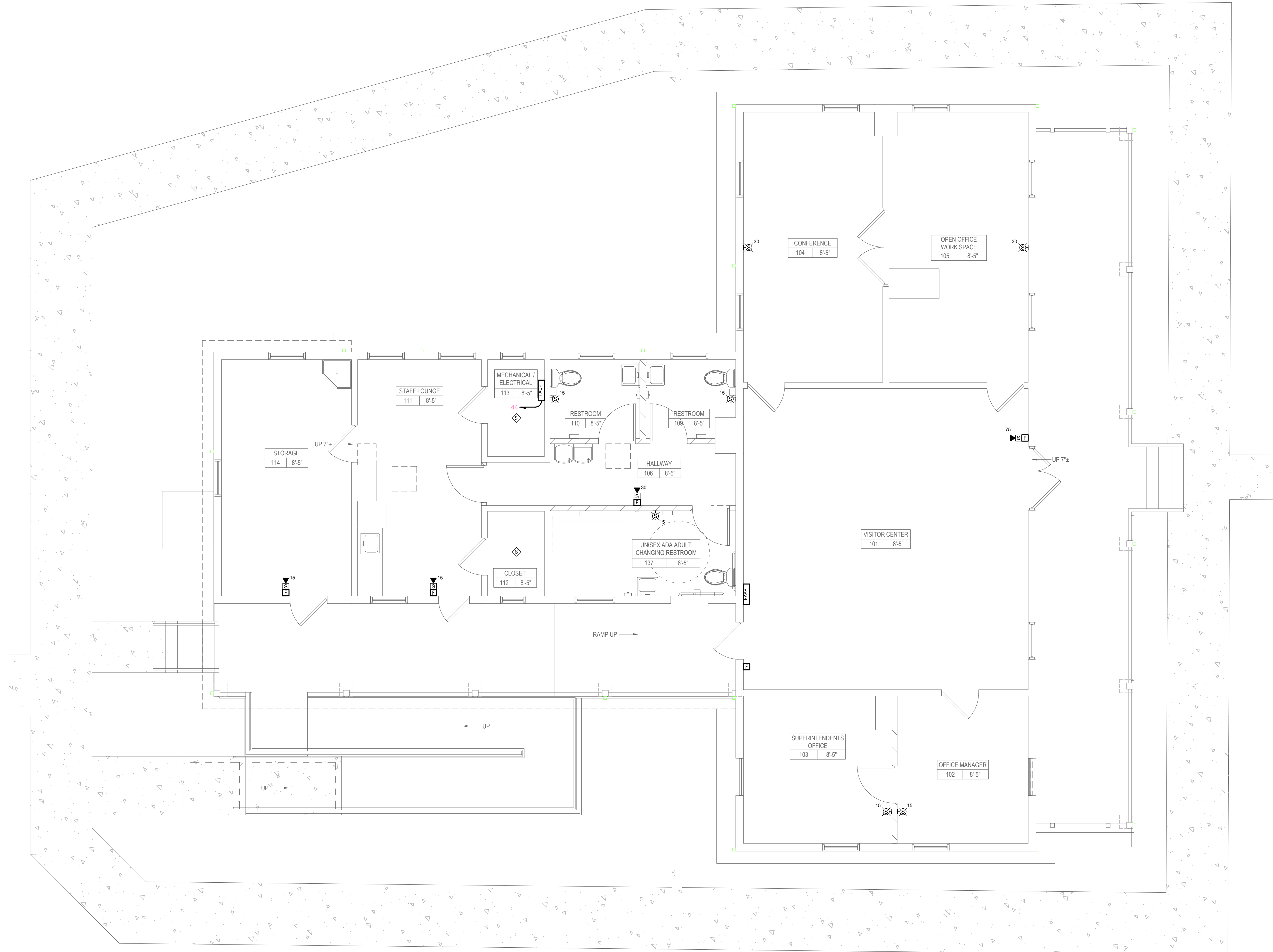
SCALE: 1/4" = 1'-0"
DRAWN BY: **WV**
CHECKED BY: **SLD**
SHEET NO. **61** OF **65**
PROJECT NO. P535900
CONTRACT NO. P535908

FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

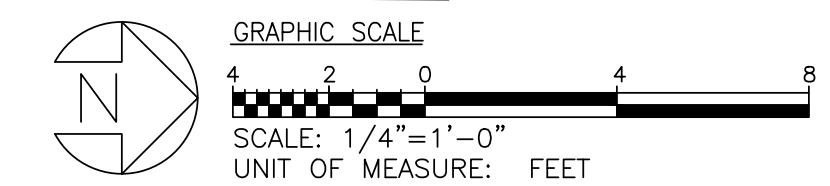
**LIGHTING
NEW WORK PLAN**

E201

- CONNECT ALL NEW FIRE ALARM DEVICES TO EXISTING BUILDING FIRE ALARM SYSTEM. PROVIDE EXTENDER POWER SUPPLIES AND MODIFICATION TO EXISTING SYSTEM AS NECESSARY TO COMPLETE WORK SHOWN.
- ALL FIRE ALARM DEVICES SHALL BE OF SAME MANUFACTURER AS EXISTING FIRE ALARM SYSTEM IN THE BUILDING.
- FOR EXISTING STROBES, CONTRACTOR SHALL ADJUST TO CANDELA LEVEL SHOWN, OR PROVIDE NEW DEVICE TO ACHIEVE CANDELA RATING.
- ALL WIRING LOCATED IN OPEN CEILING SPACES SHALL BE RUN IN CONDUIT.
- COORDINATE ALL CEILING MOUNTED DEVICES WITH ALL OTHER TRADES AND CEILING MOUNTED DEVICES. ADDITIONAL DEVICES SHALL BE PROVIDED AS NECESSARY TO ACCOMMODATE OTHER DEVICES AND MAINTAIN NECESSARY COVERAGE.
- COORDINATE WITH ARCHITECTURAL DRAWING FOR CEILING LOCATIONS.
- REFER TO ELECTRICAL DETAILS FOR FIRE AND ACOUSTIC PENETRATIONS.
- LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLASS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF ALL SURFACED ARE TO BE CLEANED OF VISIBLE DEBRIS.



VISITOR CENTER BUILDING
SCALE: 1/4" = 1'-0"



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NO.	DESCRIPTION	BY	DATE

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

**ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS**

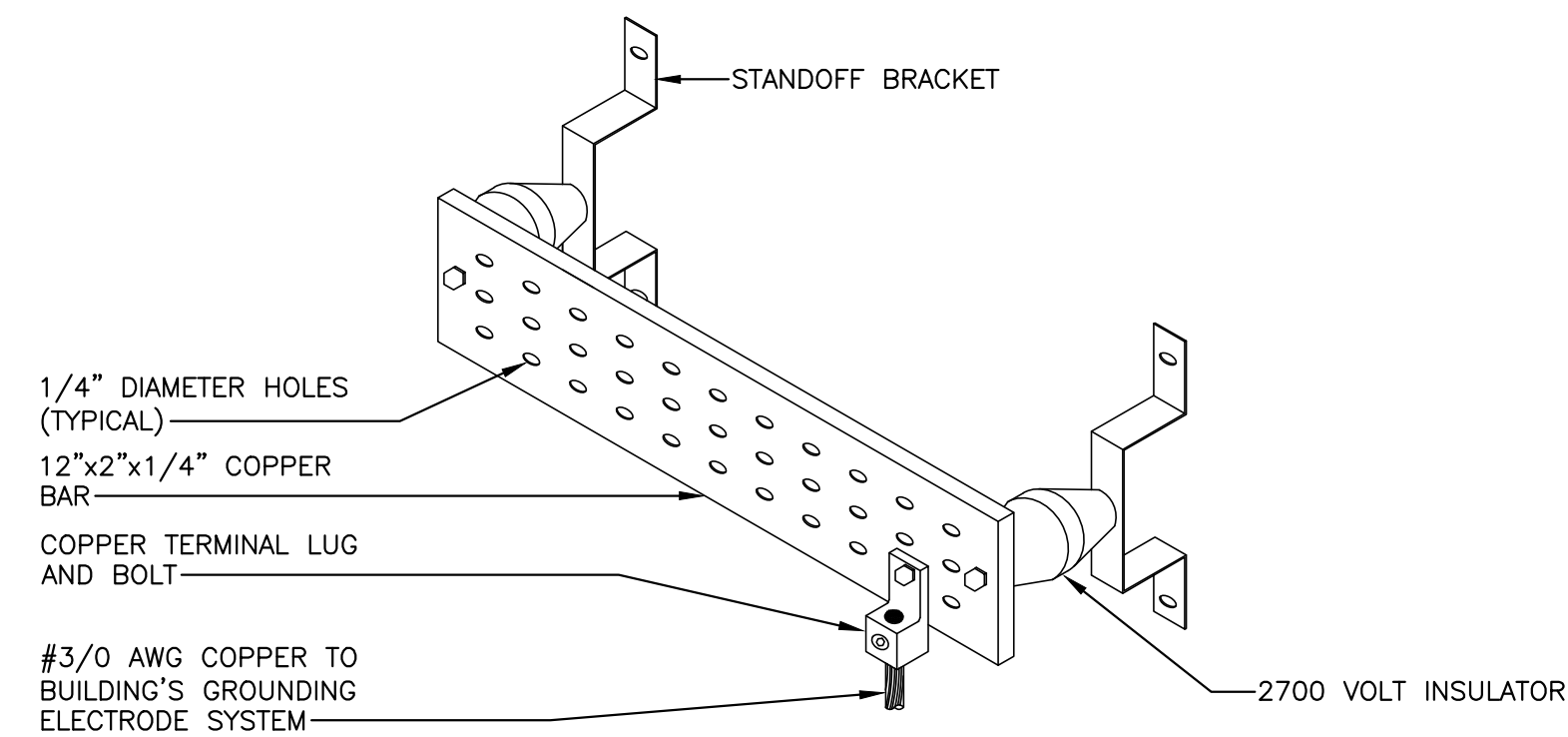
DATE: 9-25-2023

SCALE: 1/4" = 1'-0"
DRAWN BY: **WMV**
CHECKED BY: **SLD**
SHEET NO. **62** OF **65**
PROJECT NO. P535900
CONTRACT NO. P535908

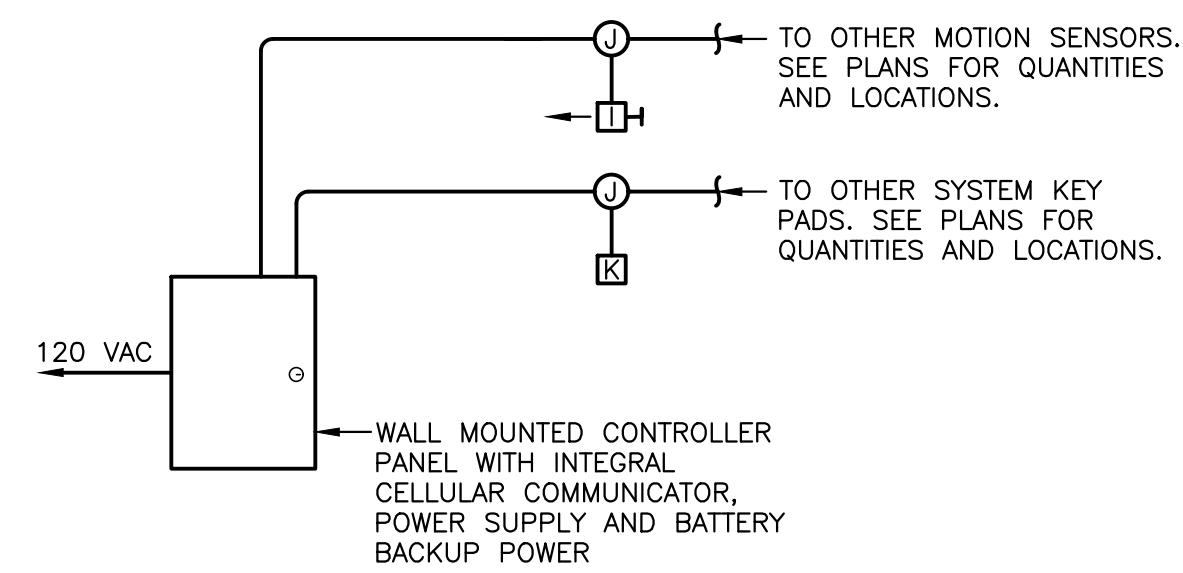
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**FIRE ALARM
NEW WORK PLAN**

E301



DETAIL - GROUND BUS BAR
NO SCALE



NOTES:

1. INSTALLATION OF SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND RECOMMENDATIONS OF THE SYSTEM VENDOR.
2. UNLESS NOTED OTHERWISE, SYSTEM WIRING SHALL BE INSTALLED IN A DEDICATED RACEWAY INFRASTRUCTURE. 3/4" MINIMUM CONDUIT SIZE.
3. MINIMUM CONDUCTOR QUANTITIES AND SIZES SHALL BE PER THE RECOMMENDATIONS OF THE SYSTEM VENDOR.

TYPICAL INTRUSION DETECTION SYSTEM RISER DIAGRAM
NO SCALE

GENERAL NEW WORK NOTES:

1. UNLESS OTHERWISE SPECIFICALLY NOTED/SHOWN, ALL CONDUITS SHALL BE INSTALLED CONCEALED WHERE POSSIBLE IN WALL OR ABOVE CEILINGS. CUT AND PATCH WALLS AND CEILINGS IN ORDER TO INSTALL CONDUITS CONCEALED AND TO INSTALL DEVICE BOXES FLUSH.
2. UNLESS SPECIFICALLY NOTED/SHOWN, MINIMUM CONDUIT SIZE FOR ROUTING OF COMMUNICATION CABLING/WIRING SHALL BE 1 1/4". UNLESS OTHERWISE INDICATED, INTERIOR CONDUIT SHALL BE EMT WITH SET SCREW COMPRESSION FITTINGS. UNLESS OTHERWISE INDICATED, EXTERIOR CONDUITS ABOVE GRADE SHALL BE RIGID STEEL WITH THREADED FITTINGS. CONDUITS NOT TERMINATING IN/AT AN ENCLOSURE SHALL BE TERMINATED USING END BUSHINGS. INSTALL PULL BOXES IN CONDUIT RUNS WHERE BENDS WILL EXCEED 180 DEGREES. ALL CONDUITS ARE TO BE EQUIPPED WITH PULL STRINGS.
3. ITEMS SHOWN AND NOT SPECIFICALLY CALLED FOR, OR ITEMS SPECIFIED AND NOT SPECIFICALLY INDICATED OR DETAILED ON THE DRAWINGS, OR ITEMS NEITHER SPECIFIED NOR SHOWN, BUT WHICH ARE REASONABLY INCIDENTAL TO AND ARE COMMONLY REQUIRED TO MAKE A COMPLETE JOB, SHALL BE PROVIDED.
4. LBP ON PLASTER WALLS AND ON METAL CEILINGS ABOVE DRYWALL MUST BE STABILIZED TO ALLOW FOR WORK TO BE CONDUCTED BY OTHERS. TOTAL STRIPPING OF PAINT IS NOT REQUIRED IN THESE AREAS. ALL ASSOCIATED DEBRIS AND CONTAMINATED FIBERGLAS BATTING MUST BE REMOVED AND PROPERLY DISPOSED OF. ALL SURFACES ARE TO BE CLEANED OF VISIBLE DEBRIS.

LEGEND

- # DENOTES REFERENCE TO DRAWING NOTE.
- ▼ UNLESS OTHERWISE INDICATED, WALL MOUNTED COMMUNICATIONS/SECURITY SYSTEM OUTLET BOX WITH BLANK COVER PLATE AND 1 1/4" CONDUIT UP TO A POINT INTO ATTIC. CABLING BY OWNER/OWNER'S SYSTEM VENDOR. MOUNT AT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- ▼ CLG CEILING MOUNTED COMMUNICATIONS/SECURITY SYSTEM OUTLET BOX WITH BLANK COVER PLATE. CABLING BY OWNER/OWNER'S SYSTEM VENDOR. AS APPLICABLE, PROVIDE 1 1/4" CONDUIT SLEEVE INTO ATTIC.
- □ WALL MOUNTED INTRUSION DETECTION SYSTEM MOTION SENSOR AT 6" BELOW CEILING.
- WALL MOUNTED INTRUSION DETECTION SYSTEM KEY PAD AT 48" AFF. GROUND BUS BAR.
- FLUSH FLOOR MOUNTED COMMUNICATIONS OUTLET BOX ASSEMBLY WITH COVERED PLATE AND 1 1/4" CONDUIT UP TO A POINT INTO ATTIC. CABLING BY OWNER/OWNER'S SYSTEM VENDOR.

ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- AWG AMERICAN WIRE GAUGE
- EMT ELECTRICAL METALLIC TUBING
- ETC ET CETERA
- MIN MINIMUM
- # NUMBER
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- UNLESS OTHERWISE NOTED
- UON UNLESS OTHERWISE NOTED
- VAC VOLTS ALTERNATING CURRENT

gba
gant-brunnett
ARCHITECTS
15 West Mulberry Street
Baltimore, Maryland 21201-4406
Telephone Number: 410-234-8444

ASquared Plus Engineering Support Group, LLC
2601 EMORY ROAD, BUILDING 1, SUITE B
FINKSBURG, MARYLAND 21048
PHONE: 443.977.9341
WWW.AZESSG.COM
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PROFESSIONAL SEAL

PROFESSIONAL CERTIFICATION
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 36773, EXPIRATION DATE 01/16/2025.

NO.	DESCRIPTION	BY	DATE
△			

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY	

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

DATE: 9-25-2023

SCALE: AS NOTED
DRAWN BY: RCA
CHECKED BY: RCA
SHEET NO. 64 OF 65
PROJECT NO. P535900
PROPOSAL NO. P535908

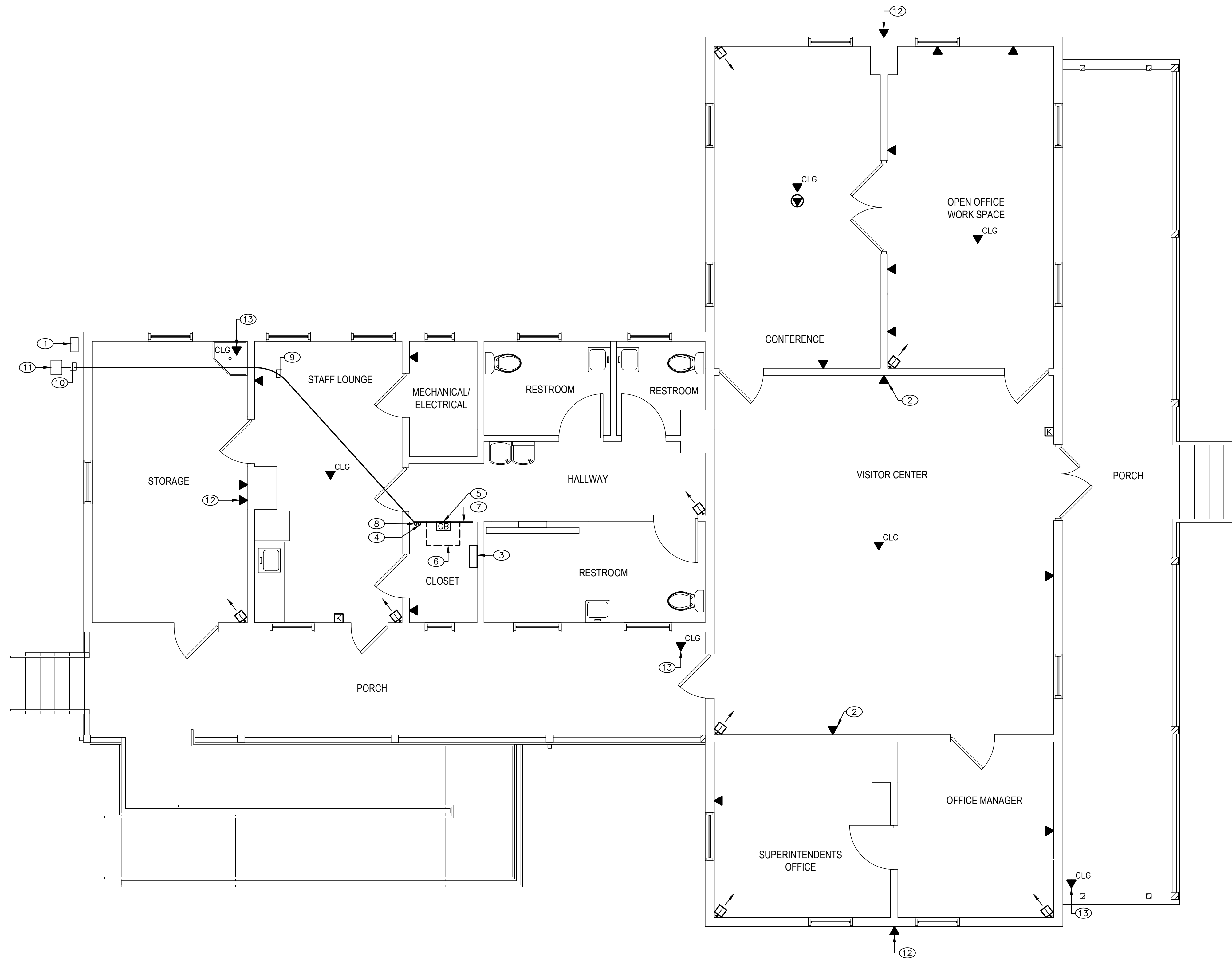
FORT SMALLWOOD PARK PHASE IIB
BARRACKS REHABILITATION/VISITOR CENTER
9500 FORT SMALLWOOD ROAD
PASADENA, MD 21122

LEGEND, ABBREVIATIONS,
NOTES AND DETAILS

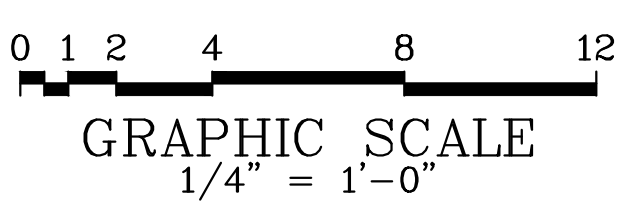
T000

DRAWING NOTES (APPLY TO DRAWING T101):

- ① EXISTING FREESTANDING VERIZON CABINET TO REMAIN.
- ② FOR CONNECTION OF VIDEO DISPLAY. FIELD VERIFY/COORDINATE LOCATION WITH DISPLAY DEVICE.
- ③ INTRUSION DETECTION SYSTEM CONTROL PANEL WITH TOP AT 5'-6" ABOVE FINISHED FLOOR.
- ④ 4" HILT FIRE-STOP SLEEVE THROUGH CEILING.
- ⑤ GROUND BAR AT 12" ABOVE FINISHED FLOOR TO TOP.
- ⑥ WALL MOUNTED COMMUNICATIONS RACK BY OWNER/OWNER'S SYSTEM VENDOR.
- ⑦ 3/4"x4"x8' AC GRADE PLYWOOD.
- ⑧ CONDUIT STUBBED UP 4" ABOVE FINISHED FLOOR.
- ⑨ 2" CONDUIT IN CRAWL SPACE.
- ⑩ 2" CONDUIT CONDUIT UNDERGROUND BETWEEN HAND HOLE AND BUILDING'S CRAWL SPACE.
- ⑪ EXISTING HAND HOLE WITH OWNER'S EXISTING OPTICAL FIBER NETWORK CABLING.
- ⑫ WALL MOUNTED AT PEAK OF ROOF (BELOW TRIM). PROVIDE 1 1/4" CONDUIT SLEEVE INTO ATTIC. FOR VIDEO SURVEILLANCE CAMERA BY OWNER/OWNER'S SYSTEM VENDOR. FIELD VERIFY LOCATION WITH OWNER/OWNER'S SYSTEM VENDOR.
- ⑬ FOR VIDEO SURVEILLANCE CAMERA BY OWNER/OWNER'S SYSTEM VENDOR. FIELD VERIFY LOCATION WITH OWNER/OWNER'S SYSTEM VENDOR.



FLOOR PLAN - NEW WORK
 SCALE: 1/4" = 1'-0"



<p>15 West Mulberry Street Baltimore, Maryland 21201-4406 Telephone Number: 410-234-8444</p>	<p>2601 EMORY ROAD, BUILDING 1, SUITE B FINKSBURG, MARYLAND 21048 PHONE: 443.977.9741 WWW.AZESG.COM © COPYRIGHT 2023</p>	<p>PROFESSIONAL SEAL</p> <p>PROFESSIONAL CERTIFICATION I 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 NUMBER 36773. EXPIRATION DATE 01/16/2025.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DESCRIPTION	BY	DATE																	<p>ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p style="text-align: right;">DATE: 9-25-2023</p>				
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