



# MCAS BEAUFORT AIRFIELD STORMWATER REPAIR BE2004M

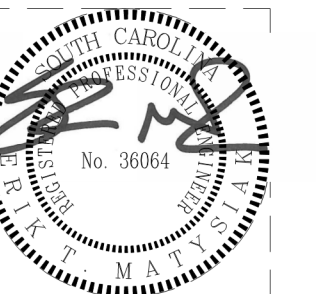
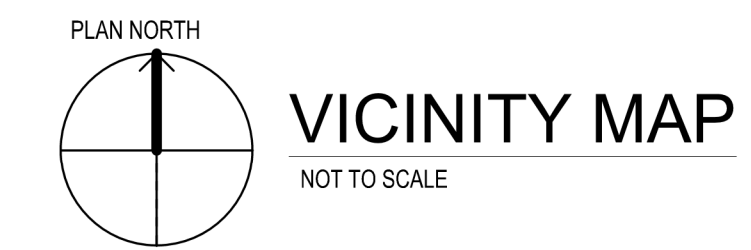
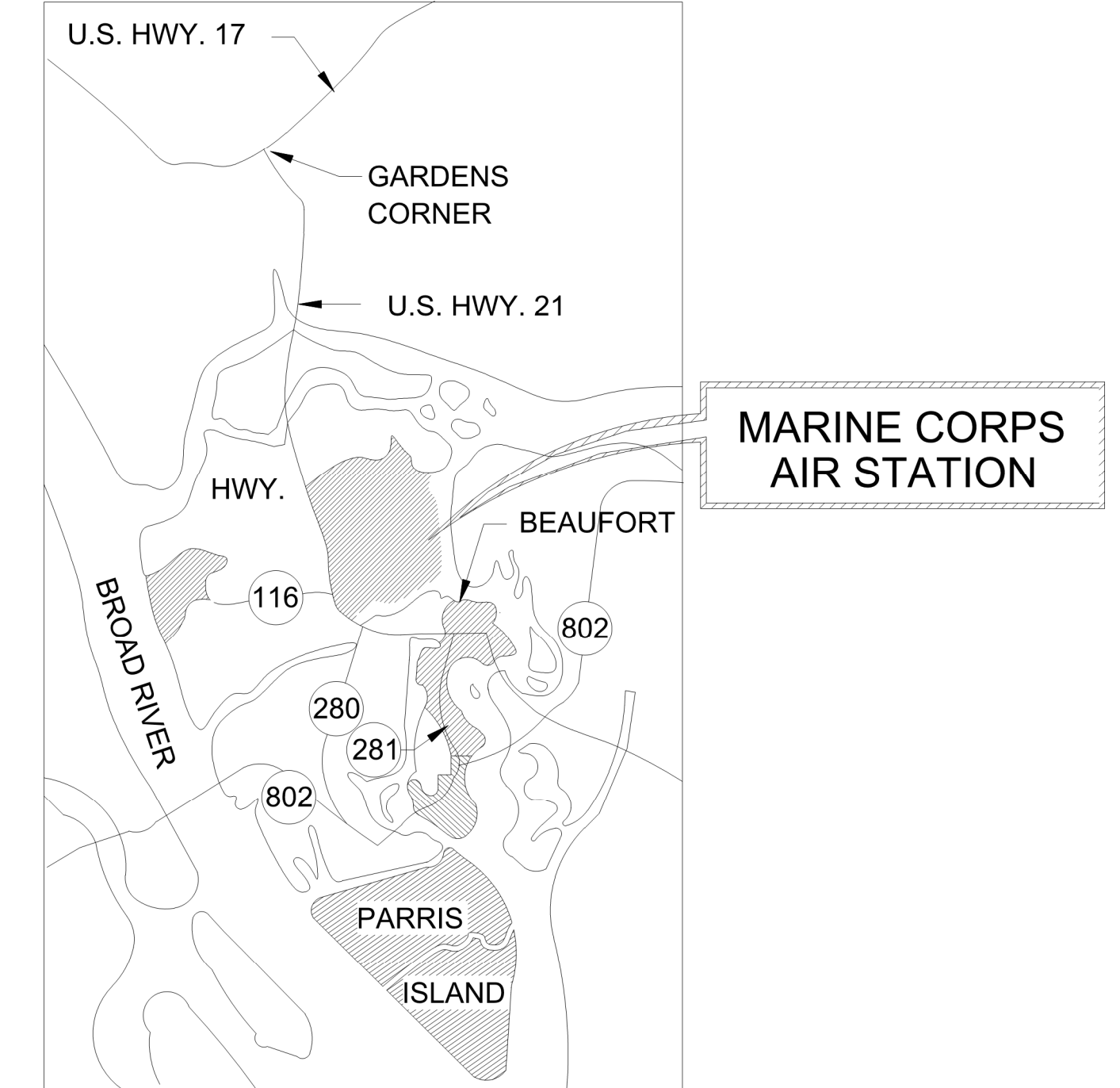
MARINE CORPS AIR STATION,  
BEAUFORT, SOUTH CAROLINA  
APRIL 27, 2020

## FINAL DESIGN SUBMISSION

REVISIONS

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34	C-501	27093	EROSION CONTROL DETAILS
35	C-502	27094	EROSION CONTROL DETAILS AND SITE DETAILS
TOTAL: 35			



IF SHEET IS LESS THAN (34"x22") IT IS A  
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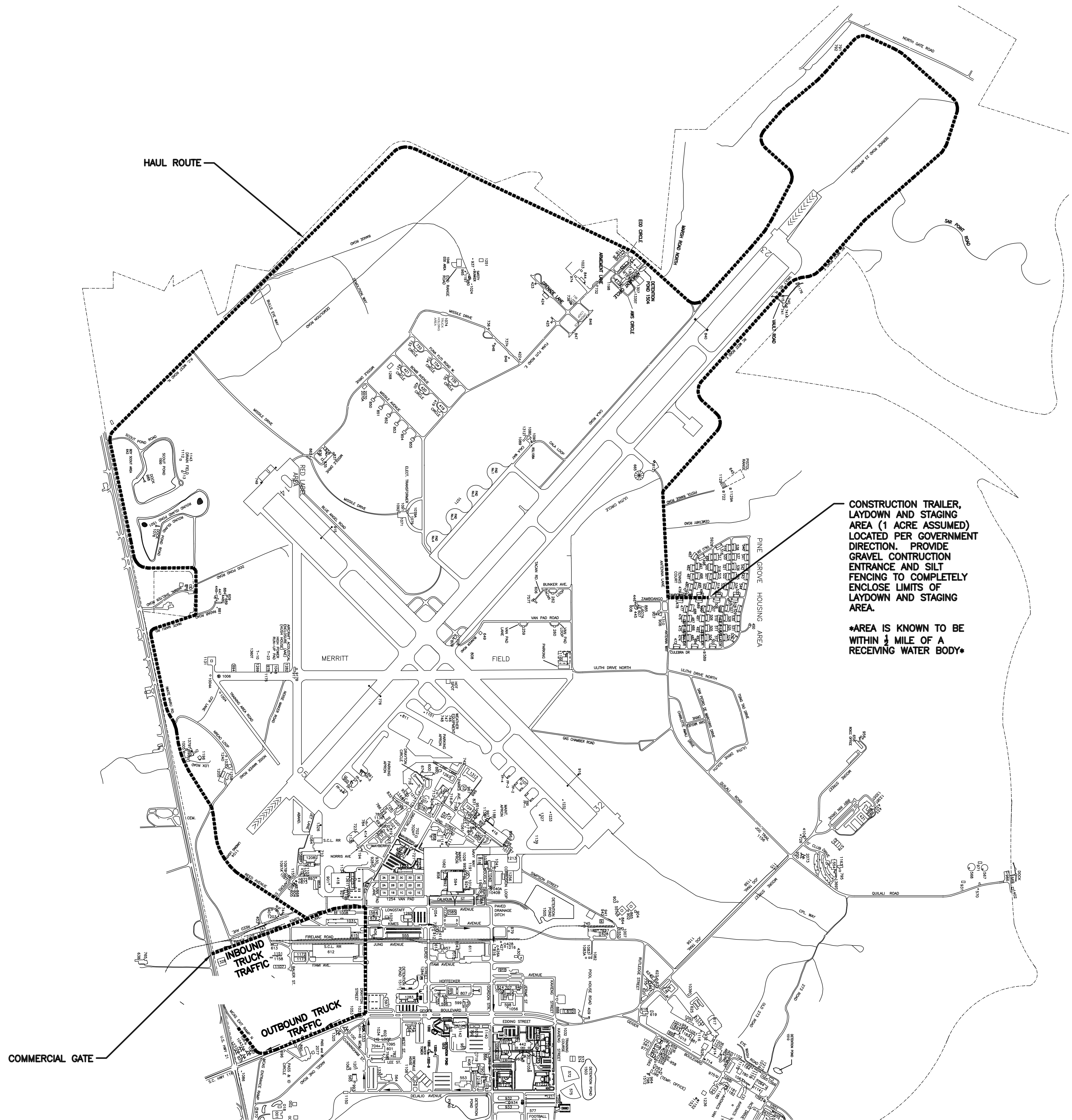
ISSUE DATE: APR 27, 2020

NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS VAIGNEUR, L. L. TORRES TOPHER L. 126499 8332		P.W. DWG. NO. 27060	CEMS ENGINEERING   ARCHITECTURE INCORPORATED		G-001
SAFETY DEPARTMENT LANOIE, RONALD D.L. 1011923352		DRAWN BY J. CARROLL/E. MATYSIAK	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS AIR STATION		
FIRE DEPARTMENT CRAFT, JEROME D.S. 1058593340		CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)		
PHYSICAL SECURITY MILLER, DAVID V. AN: 1084796928		SUPERVISOR S. THOMAS	COVER SHEET AND LOCATION MAP		
PUBLIC WORKS SUPERVISOR WEBB, OWEN H. 1229842990		APPROVED FOSSON, EDWARD ASHLEY: 12480329 59 PUBLIC WORKS OFFICER	DATE 12/15/2019 12/15/2019 12/15/2019	SIZE F	CODE IDENT. NO. N A V F A C DRAWING NO. HOMC PROJ. NO.: BE2004M CONSTR. CONTR. NO.: N40085-18-D-0616 SCALE: AS NOTED MACC. T.O. # SHEET 1 OF 35

YOUR SIGNATURE ON THIS  
COVER SHEET APPROVES ALL  
SHEETS ASSOCIATED WITH THIS  
SET OF DRAWINGS.

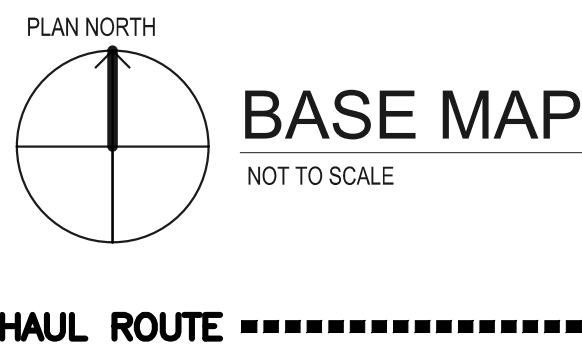


REVISIONS		



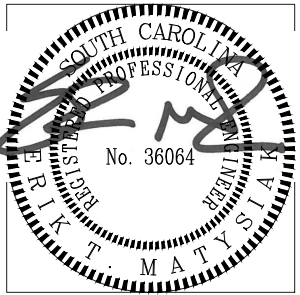
CONSTRUCTION TRAILER, LAYDOWN AND STAGING AREA (1 ACRE ASSUMED) LOCATED PER GOVERNMENT DIRECTION. PROVIDE GRAVEL CONSTRUCTION ENTRANCE AND SILT FENCING TO COMPLETELY ENCLOSE LIMITS OF LAYDOWN AND STAGING AREA.

•AREA IS KNOWN TO BE WITHIN 1/4 MILE OF A RECEIVING WATER BODY•



YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY		ISSUE DATE: APR 27, 2020	
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27061	<div><div>CEMS</div><div>ENGINEERING   ARCHITECTURE</div><div>PROFESSIONAL SEAL</div></div> <div>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND REARPORT, S.C. <b>MARINE CORPS AIR STATION</b></div>	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	AIRFIELD STORMWATER REPAIRS (BE2004M)	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	LEGEND AND GENERAL NOTES	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SIZE F	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	CODE IDENT. NO.	NAV F A C DRAWING NO.
PUBLIC WORKS OFFICER		HQMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 2 OF 35





EXISTING CONDITIONS LEGEND

EXISTING TO REMAIN	EXISTING WITHIN SCOPE	
		BUILDING OUTLINE
		EDGE OF PAVEMENT
		STORM WATER LINE (GIS)
		SANITARY SEWER LINE (GIS)
		WATER LINE (GIS)
		TELECOMMUNICATIONS (GIS)
		ELECTRICAL (GIS)
		FENCELINE
		CENTERLINE
		PIPE LABEL
		MANHOLE

INSTALLATION ACCESS

CONTRACTOR AND SUB-CONTRACTOR PERSONNEL ARE REQUIRED TO FOLLOW THE PROCEDURES FOR BASE ACCESS AND DBIDS PROCESS TO ACCESS THE BASE. CONTRACTOR AND SUB-CONTRACTOR PERSONNEL MUST OBTAIN A FLIGHTLINE DRIVER'S LICENSE TO OPERATE A MOTOR VEHICLE, WHICH REQUIRES ADDITIONAL TIME AND AN EDUCATION COURSE.

SITE INVESTIGATION NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AS-BUILT SURVEY OF ALL THE STORM DRAINAGE (EXISTING, REPAIRED, AND REPLACED) WITHIN THIS PROJECT SCOPE. SURVEY SHALL CAPTURE ALL STORM PIPES AND STRUCTURES. SURVEY SHALL PROPERLY VERIFY THE LOCATION, ELEVATION /DEPTH, RIM, INVERT(S) AND PIPE SIZE(S) AT EACH STORM STRUCTURE.
- THE CONTRACTOR SHALL HIRE A UTILITY LOCATE COMPANY TO LOCATE AND MARK ALL SUBSURFACE UTILITIES OR OTHER NOTEWORTHY ITEMS FOR AWARENESS AND TO ENSURE PROTECTION IN THE VICINITY OF EARTHWORK, DEMOLITION, REPAIR AND CONSTRUCTION.
- ALL EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE LOCATIONS PER GIS DATA AND INSTALLATION RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY LOCATIONS, SIZES, AND DEPTHS OF ALL EXISTING ABOVE & BELOW GROUND UTILITIES AT LEAST 48 HOURS PRIOR TO THE START OF EARTHWORK, DEMOLITION, REPAIR AND CONSTRUCTION. THE CONTRACTING OFFICER SHALL BE NOTIFIED IN ADVANCE OF ANY DISCREPANCIES AFFECTING EXCAVATION, DEMOLITION, REPAIR OR CONSTRUCTION.
- THE CONTRACTOR SHALL CALL PUPS, 811 OR (888) 721-7877, BEFORE ANY EXCAVATION AND COORDINATE WITH MARINE CORPS AIR STATION (MCAS) ON LOCATING REQUIREMENTS. SOUTH CAROLINA STATE LAW REQUIRES ANY ACTIVITY THAT RESULTS IN THE MOVEMENT OR REMOVAL OF EARTH, ROCK OR OTHER MATERIALS IN OR ON THE GROUND REQUIRES THE EXCAVATOR TO CONTACT THE UTILITY COMPANY OR ONE CALL CENTER WITH ADEQUATE INFORMATION REGARDING THE DIG. EACH EXCAVATOR IS REQUIRED TO WAIT 72-HOURS OR 3 BUSINESS DAYS BEFORE STARTING THE DIGGING WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY PROVIDERS (AS NECESSARY) WITHIN THE PROJECT AREA. SOME UTILITY CONTACT INFORMATION IS AS FOLLOWS  
COMCAST: 4400 BELLE OAKS DR. CHARLESTON, SC 29405. 843-266-3010  
DOMINION ENERGY: PO BOX 1168, BEAUFORT, SC 29901. 843-525-7731  
CENTURYLINK: PO DRAWER 1659, BEAUFORT, SC 29902. 843-525-7979  
HARGRAY COMMUNICATIONS GROUP, INC. PO BOX 346 BLUFFTON, SC 29910. 843-815-1676  
BJSWA: 6 SNAKE RD OKATIE, SC 29909. 843-987-9229.
- KNOWN UNDERGROUND UTILITY LOCATIONS ARE SHOWN ON THE PLAN, HOWEVER, NOT SHOWN BUT POSSIBLY ENCOUNTERED IN THE AREA OF THE SITE ARE OTHER BURIED UTILITIES INCLUDING, BUT NOT LIMITED TO, TELEPHONE, FIBER OPTICS, CABLE TELEVISION, POTABLE WATER, SANITARY SEWER, GAS PIPELINE / TRANSMISSION LINE, STORM SEWER. ALL UTILITIES ENCOUNTERED SHALL BE PROTECTED DURING EXCAVATION, DEMOLITION, REPAIR AND CONSTRUCTION UNLESS OTHERWISE STATED TO BE REMOVED.

ENVIRONMENTAL NOTES

- IF ANY SUSPECTED ARTIFACTS ARE DISCOVERED DURING GROUND DISTURBING ACTIVITIES, ALL WORK SHOULD STOP AND NREAO (AND PROJECT MANAGER / CONTRACTING OFFICER) SHOULD BE NOTIFIED IMMEDIATELY.
- ALLIGATORS HAVE BEEN KNOWN TO INHABIT VARIOUS STORM WATER OUTFALLS. WORKERS SHOULD BE AWARE OF THEIR POTENTIAL PRESENCE. IF ENCOUNTERED, CONTACT NREAO PERSONNEL IMMEDIATELY FOR ALLIGATOR REMOVAL/RELOCATION.
- ALL METAL PIPING IS ASSUMED TO BE CONTAMINATED WITH NON-FRIABLE ASBESTOS INTERIOR COATING. ALL AREAS OF THE AIRFIELD WILL HAVE POTENTIAL TO BE CONTAMINATED. LINES, EXCAVATED MATERIAL, AND WASHWATER SHOULD BE VERIFIED FOR THE PRESENCE OF HAZARDOUS MATERIALS AND DISPOSED OF IN ACCORDANCE WITH MCAS STANDARDS, APPLICABLE EPA AND SCDHEC REGULATIONS.
- IN SITU MATERIAL IS NOT ANTICIPATED TO BE CONTAMINATED. IF ANY MATERIAL CONTAMINATES THE SOIL, FURTHER ACTION WILL BE NECESSARY TO CLEAN THE SOIL. THIS WILL INCLUDE BUT IS NOT LIMITED TO SOIL REMOVAL/CONTAINERIZATION, SOIL REPLACEMENT AND LABORATORY TESTING WITH A DHEC CERTIFIED LAB TO VERIFY THE AREA CLEAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ACQUIRE ALL NECESSARY PERMITS PER STATE, FEDERAL REGULATIONS, AND OSHA STANDARDS INCLUDING HAZARDOUS MATERIAL PERMITTING. A COPY OF THE LEAD AND ASBESTOS REPORT MUST BE SUBMITTED TO SCDHEC AT LEAST (10) WORKING DAYS PRIOR TO DEMOLITION WHEN APPLYING FOR A DEMOLITION PERMIT. ALL PERMITS/ RECEIPTS/ INSPECTION DOCUMENTS SHALL BE COORDINATED WITH MCAS PROGRAM MANAGER, CHRIS DOSHER AT CHRISTOPHER.DOSHER@USMC.MIL. PROPER LABELING, TRANSPORTING, AND DISPOSAL OF HAZARDOUS CONTAINING MATERIALS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL DEMOLITION DEBRIS SHALL BE HAULED OFFSITE AND DISPOSED OF OFFSITE AT A FACILITY LICENSED AND PERMITTED TO ACCEPT LIKE MATERIALS, WITH A STATE APPROVED EROSION CONTROL PLAN IN PLACE. ALL MATERIALS SHALL BE TRANSPORTED OFF GOVERNMENT PROPERTY FOR FURTHER PROCESSING BY THE CONTRACTOR OR OTHER PARTIES IN ACCORDANCE WITH DOD REGULATIONS.
- HAZARDOUS COMPONENT ABATEMENT FOR MATERIALS SUCH AS ASBESTOS, PETROLEUM DERIVATIVES, LEAD PAINT, PCB LIQUIDS, AND OTHER HAZARDOUS MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH A HAZARDOUS WASTE MANAGEMENT PLAN (HWMP) IN PLACE. THE CONTRACTOR SHALL ACQUIRE A COMPETENT/ CURRENT SCDHEC ASBESTOS SUPERVISOR DURING ANY POSSIBLE DISTURBANCE OF ACM TO ASSURE COMPLIANCE FOR BOTH STATE AND FEDERAL REGULATIONS. IF ASBESTOS IS PRESENT OR PRESUMED, THIS PROJECT IS SUBJECT TO SOUTH CAROLINA REGULATION 61-86.1, STANDARDS OF PERFORMANCE FOR ASBESTOS.
- THE CONTRACTOR SHALL ABATE, REMOVE, AND MANAGE THE HAZARDOUS MATERIALS IN ACCORDANCE WITH FEDERAL AND LOCAL ENVIRONMENTAL PROTECTION LAWS AND REGULATIONS. THE CONTRACTOR SHALL DETERMINE IF PERSONAL PROTECTIVE EQUIPMENT IS RECOMMENDED OR REQUIRED BASED ON EVALUATIONS OF THE COMPLETED REPORTS. IF PROJECT IS CLASSIFIED BY SCDHEC ASBESTOS STANDARDS AS NESHA SIZE PROJECT A SCDHEC LICENSED PROJECT.
- CONTRACTOR WILL BE REQUIRED BY MCAS TO PROVIDE ASBESTOS PLAN FOR REVIEW AND ACCEPTANCE FROM NREAO WITH SAFETY BEFORE APPLYING FOR PERMIT. ESTABLISH DESIGNATED LIMITS FOR THE ASBESTOS REGULATED WORK AREA WITH THE USE OF RED BARRIER TAPE, CRITICAL BARRIERS AND SIGNS, AND MAINTAIN ALL OTHER REQUIREMENTS FOR ASBESTOS CONTROL AREA EXCEPT LOCAL EXHAUST.

CIVIL LEGEND

EXISTING	EXISTING WITHIN SCOPE	NEW	
			BUILDING OUTLINE
			EDGE OF PAVEMENT
			STORM WATER LINE (GIS)
			STORM WATER LINE
			SANITARY SEWER LINE (GIS)
			WATER LINE (GIS)
			TELECOMMUNICATIONS (GIS)
			ELECTRICAL (GIS)
			UNDERGROUND FUEL (GIS)
			FENCELINE
			GRAVEL CONSTRUCTION ENTRANCE
			SILT FENCE
			INLET PROTECTION
			LIMITS OF DISTURBANCE
			PIPE LABEL
			MANHOLE

ENVIRONMENTAL NOTES (CONTINUED)

- ALL WASH WATER FROM METAL PIPING MUST BE SCREENED AND FILTERED TO REMOVE FIBERS WHICH ARE ASSUMED TO CONTAIN ASBESTOS. RINSE WATER WILL REQUIRE FILTRATION TO 5 MICRONS. CONTRACTOR WILL BE REQUIRED TO PROVIDE AN ASBESTOS PLAN TO FILTER, STORE, AND DISPOSE OF ALL WATER COMING FROM THE AIRFIELD PIPES. FIBERS/PARTICLES MUST BE CAPTURED, CONTAINED, CATEGORIZED/LABELED, AND DISPOSED OF IN ACCORDANCE WITH STATE, FEDERAL, AND DOD REGULATIONS.
- WASH WATER SHALL BE TRANSPORTED OFF GOVERNMENT PROPERTY FOR DISPOSAL IN ACCORDANCE WITH STATE, FEDERAL, AND DEPARTMENT OF DEFENSE REQUIREMENTS, WITH MANIFESTS SIGNED BY THE GOVERNMENT.
- SCREENED OR FILTERED WASH SHALL BE TESTED ON-INSTALLATION. FIELD SAMPLING SHALL MONITOR THE FOLLOWING:  
TEST REQUIREMENTS:  
BENZENE - 5 UG/L (MICROGRAMS/LITER)  
TOLUENE - 1000 UG/L  
ETHYLBENZENE - 700 UG/L  
XYLENE - 10,000 UG/L  
NAPHTHALENE - 0.17 UG/L  
PFBS - 40 UG/L  
PFAS - 0.070 UG/L  
PFOS - 0.070 UG/L
- WASH WATER SHALL BE TESTED FOR PFOS / PFAS TO AND CATEGORIZED IF LEVELS EXCEED 70 PARTS PER TRILLION (PPT). ALL WASH WATER SHALL BE TRANSPORTED OFF GOVERNMENT PROPERTY FOR DISPOSAL IN ACCORDANCE WITH STATE, FEDERAL, AND DEPARTMENT OF DEFENSE REQUIREMENTS, WITH MANIFESTS SIGNED BY THE GOVERNMENT.
- IF PETROLEUM DERIVATIVES ARE ENCOUNTERED IN WASH WATER EXCEEDING ABOVE LEVELS, THESE SHALL BE CATEGORIZED ACCORDINGLY. ALL WASH WATER SHALL BE TRANSPORTED OFF GOVERNMENT PROPERTY FOR DISPOSAL IN ACCORDANCE WITH STATE, FEDERAL, AND DEPARTMENT OF DEFENSE REQUIREMENTS, WITH MANIFESTS SIGNED BY THE GOVERNMENT.

GENERAL NOTES

- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BE PREPARED TO ADEQUATELY CARE FOR AND SAFEGUARD HIMSELF AND THE OWNER FROM DAMAGE. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE WORKMANLIKE REPAIR OF ANY DAMAGE DONE TO ANY NEW AND EXISTING SITE ITEMS IN THE EXECUTION OF HIS WORK UNDER THIS SECTION. ADVANCED PERMISSION FROM THE INSTALLATION FOR PHOTOGRAPHY TO DOCUMENT EXISTING CONDITIONS PRIOR TO START OF ANY WORK IS REQUIRED.
- CONTRACTOR SHALL PROVIDE BYPASS PUMPING FOR SEGMENTS OF STORM DRAIN REPAIR AND REPLACEMENT. EXCAVATION FOR NEW PIPE PLACEMENT SHALL BE DEWATERED IF NEEDED. DURING STORM DRAIN CLEANING, REPAIR, AND REPLACEMENT, NO FLUID DISCHARGE SHALL OCCUR. ALL FLUID SHALL BE CAPTURED, RETAINED, AND TESTED PER ENVIRONMENTAL NOTES. NO WETLAND OR DOWNSTREAM FLUID DISCHARGE IS ACCEPTABLE.
- THE LIMITS OF SITE DISTURBANCE FOR NEW STORM DRAINAGE PLACEMENT TOTALS APPROXIMATELY 2.90 ACRES. ALL CONTRACTORS SHALL MEET ALL REQUIREMENTS OF THE APPROVED SCDHEC LAND DISTURBANCE PERMIT AND BECOME FAMILIAR WITH AND COMPLY WITH ALL EROSION AND SEDIMENT CONTROL AND STORMWATER PREVENTION REQUIREMENTS CONTAINED THROUGHOUT THE SWPPP, DRAWINGS, SPECIFICATIONS AND PERMITS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING FOR THE DURATION OF THE PROJECT: PROVIDE A SCDHEC CERTIFIED EROSION INSPECTOR, PROVIDE WEEKLY INSPECTION REPORTS, COMPLETE THE NOTICE OF TERMINATION (NOT) ONCE THE SITE IS STABILIZED AS REQUIRED BY THE APPROVED PERMITS.
- UPON COMPLETION OF STORM DRAIN PIPE REPAIR AND REPLACEMENT, CONTRACTOR SHALL PERFORM POST CCTV INSPECTION TO VERIFY THE REPAIR OR REPLACEMENT OF STORM SEWERS HAS BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. REFER TO SPECIFICATION SECTION 33 01 30.16 "TV INSPECTION OF SEWER PIPELINES".

DEMOLITION NOTES

- UNLESS NOTED OTHERWISE, DEMOLITION WORK ENTAILS COMPLETE REMOVAL OF THE ITEMS OR STRUCTURES IN THEIR ENTIRETY. REPAIR, REMOVAL AND REPLACEMENT OF PAVEMENT AND STORM DRAINS SHOWN IS THE MINIMUM AMOUNT REQUIRED TO COMPLETE THE PROJECT.
- SAW CUT AND REMOVE ALL EXISTING PAVEMENT AS NOTED ON PLANS. PROVIDE NEAT AND CLEAN JOINTS AT PAVEMENT TO REMAIN.
- ALL DEPRESSIONS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE FILLED & COMPACTED WITH SUITABLE SOILS TO EXISTING GRADE AND SLOPED FOR POSITIVE DRAINAGE. OFFSITE BORROW NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR FROM SOURCES DEVELOPED BY THE CONTRACTOR.
- AFTER GRADING ACTIVITY HAS BEEN COMPLETED, THE CONTRACTOR SHALL PLACE NECESSARY TOPSOIL AND SOD AS SPECIFIED ON THE SHEETS IN ALL DISTURBED LOCATIONS NOT TO BE PAVED.

SCDHEC NOTES

- STORMWATER, SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IN PLACE FOR THE DURATION OF SITE WORK IN ACCORDANCE WITH THE SWPPP AND DRAWINGS. MEASURES SHALL BE ESTABLISHED PRIOR TO SITE DISTURBANCE AND MAINTAINED THRU STABILIZATION CLOSEOUT. SITE DISTURBANCE TOTALS 3.5 ACRES AS SHOWN ON THE DRAWINGS AND AS DOCUMENTED IN THE SWPPP.
- I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

ABBREVIATIONS:

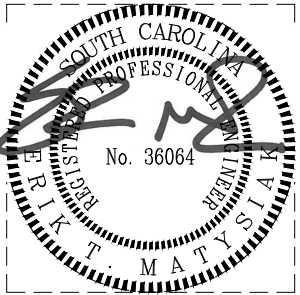
STORM DRAIN = SD	DUCTILE IRON PIPE = DIP
MANHOLE = MH	RESTRAINED JOINT = RJ
GRATE INLET = GI	HIGH DENSITY POLYETHYLENE = HDPE
HEADWALL = HW	BITUMINOUS-COATED CORRUGATED METAL PIPE = BCM
REINFORCED CONCRETE PIPE = RCP	INVERT ELEVATION = IE
POLYVINYL CHLORIDE PIPE = PVC	FRAME (RIM ELEVATION) = FR

SAFETY NOTES

- THE CONTRACTOR SHALL ACQUAINT SUPERVISORS AND EMPLOYEES OF THE ACTIVITIES AND OPERATIONS THAT ARE INHERENT TO THIS ACTIVE BASE, INCLUDING PROCEDURES RELATED TO AIRCRAFT OPERATIONS, AND SHALL CONDUCT ITS CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE REQUIREMENTS AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND GUIDELINES ON SAFETY.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR AIRCRAFT AND AIRCRAFT OPERATIONAL SAFETY ASSOCIATED WITH CONSTRUCTION ACTIVITIES RELATIVE TO THE CONSTRUCTION PROJECT AT ALL TIMES. THE CONTRACTOR SHALL MEET THE SAFETY REQUIREMENTS ESTABLISHED PER EM 385-1-1 SECTION 32 AIRFIELD AND AIRCRAFT OPERATIONS.
- THE CONTRACTOR SHALL PROVIDE A CLOSURE PLAN FOR PAVEMENT WORK ON TAXIWAY B. FOR REPAIR WORK WITHIN AREAS OF EXISTING PAVEMENT, THE CONTRACTOR SHALL SCHEDULE AND COORDINATE WITH THE GOVERNMENT IN ADVANCE OF TRENCHLESS EQUIPMENT STAGING. ENSURE THAT ALL PROPER SAFETY MEASURES ARE FOLLOWED DURING WORK, INCLUDING PROPER PLACEMENT AND LOCATION OF LOW-PROFILE BARRICADES. NO RUNWAY, TAXIWAY, APRON OR ROADWAY SHALL BE CLOSED WITHOUT WRITTEN APPROVAL OF THE GOVERNMENT. A MINIMUM OF 48 HOURS WRITTEN NOTICE OF REQUESTED CLOSING SHALL BE PROVIDED IN ORDER TO ALLOW SUFFICIENT TIME TO COORDINATE THE NECESSARY ADVISORIES.
- ALL CONTRACTOR VEHICLES THAT ARE AUTHORIZED TO OPERATE ON THE AIRFIELD OR HAUL ROUTES SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A FLASHING AMBER (YELLOW) DOME-TYPE LIGHT, MOUNTED ON TOP OF THE VEHICLE AND OF SUCH INTENSITY TO CONFORM TO LOCAL CODES FOR MAINTENANCE AND EMERGENCY VEHICLES.
- OPEN FLAMES, WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN TAKEN AND THE PROCEDURE IS APPROVED BY THE GOVERNMENT.
- STOCKPILING OF CONSTRUCTION MATERIALS SHALL NOT BE PERMITTED ON-SITE. OPEN TRENCHES, EXCAVATION AND WORKING MATERIALS LOCATED IN THE AIRFIELD OPERATIONS AREA SHALL BE PROMINENTLY MARKED WITH FLAGS OR OTHER APPROVED METHODS AND LIGHTED BY APPROVED LIGHT UNITS DURING HOURS OF RESTRICTED VISIBILITY AND DARKNESS.
- DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEARS, PROPELLERS OR BEING INGESTED INTO AIRCRAFT ENGINES SHALL NOT BE ALLOWED TO BE ON ACTIVE AIRCRAFT MOVEMENT AREA PAVEMENT OR ALONG HAUL ROUTES. THE CONTRACTOR SHALL REMOVE IT IMMEDIATELY AND CONTINUOUSLY DURING CONSTRUCTION BY MECHANICAL VACUUM SWEEPER OR OTHER APPROVED METHODS. BROOMS CANNOT CONTAIN METAL BRISTLES.
- THE PROJECT SUPERINTENDENT/SUPERVISOR WILL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS. PRIOR TO THE COMMENCEMENT OF WORK, THE PROJECT SUPERINTENDENT/SUPERVISOR SHALL PROVIDE A PROPOSED ACCIDENT AND FIRE PROTECTION PLAN FOR ALL WORK CONTEMPLATED UNDER THE CONTRACT, CONDUCT AT LEAST ONE SAFETY MEETING EACH MONTH FOR EACH SHIFT, AND REQUIRE THE ATTENDANCE OF ALL SUPERVISORS AT SUCH MEETINGS. COPIES OF THE MINUTES OF SAFETY MEETINGS SHALL BE KEPT ON FILE IN THE CONTRACTOR'S FIELD OFFICE AND BE MADE AVAILABLE UPON DEMAND BY THE GOVERNMENT.
- THE EMERGENCY NUMBER TO CALL FOR ANY INCIDENT ON THE PROJECT OR AIRFIELD SHALL BE 911, AND THE SITE IS MARINE CORPS AIR STATION (MCAS) BEAUFORT, UNLESS OTHERWISE NOTIFIED BY THE GOVERNMENT.
- CONSTRUCTION DURING THE PROJECT MAY BE HALTED AT ANY TIME BY THE GOVERNMENT OR AIRFIELD OPERATIONS PERSONNEL IF IT IS DETERMINED TO BE IN THE BEST INTEREST OF THE BASE OR AIRCRAFT OPERATIONAL SAFETY, AND THE CONTRACTOR MAY BE DIRECTED TO REMOVE EQUIPMENT AND/OR EVACUATE THE SITE. NECESSARY EXTENSIONS IN CONTRACT TIME MAY BE GRANTED OR A STOP WORK ORDER WILL BE ISSUED DUE TO THESE DELAYS, HOWEVER, THERE WILL BE NO ADJUSTMENTS IN CONTRACT PRICE DUE TO THESE DELAYS.

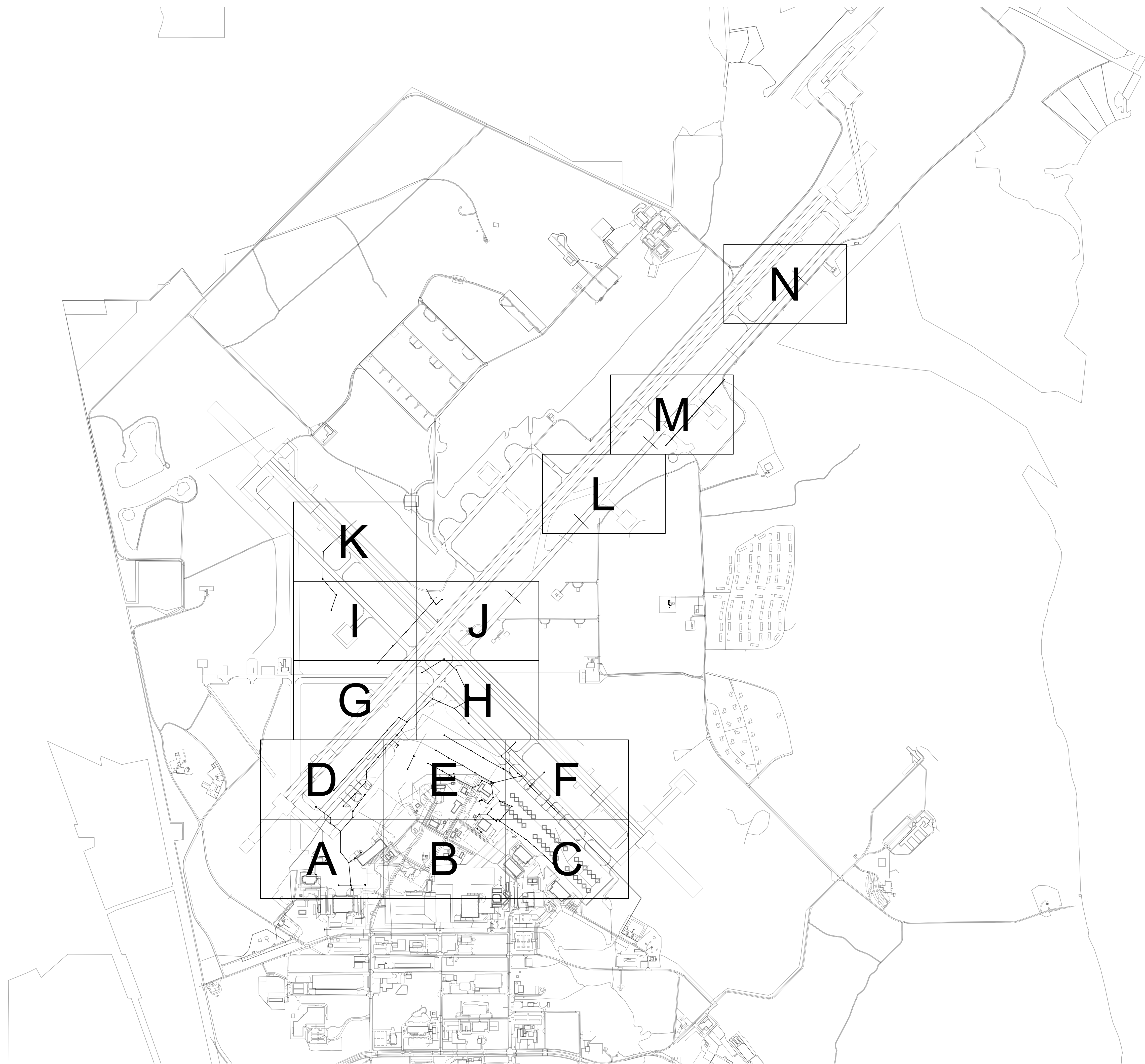
SECURITY NOTES

- IT IS INTENDED THAT THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE PROJECT SUPERINTENDENT/SUPERVISOR SHALL BE REQUIRED TO FAMILIARIZE THEMSELVES WITH REQUIREMENTS OF OPERATING WITHIN AND AROUND THE BASE AND AIRFIELD, INCLUDING APPLICABLE RULES AND REGULATIONS. THE SUPERINTENDENT/SUPERVISOR SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS AND, FROM TIME TO TIME, OTHER SECURITY PROVISIONS ADOPTED BY THE GOVERNMENT. ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.
- THE CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE GOVERNMENT. NO OTHER ACCESS POINTS SHALL BE ALLOWED UNLESS APPROVED AND DIRECTED BY THE GOVERNMENT. CONTRACTOR EMPLOYEE VEHICLES SHALL PARK OUTSIDE OF THE RESTRICTED AIRFIELD AREA OR AT THE DESIGNATED STAGING AND LAYDOWN AREA. ALL CONTRACTOR TRAFFIC AUTHORIZED TO ENTER THE SITE SHALL BE EXPERIENCED IN THE ROUTE OR GUIDED BY CONTRACTOR PERSONNEL. THE CONTRACTOR SHALL BE RESPONSIBLE COMMUNICATION WITH AIRFIELD OPERATION.
- ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE SITE MUST BE ESCORTED BY THE CONTRACTOR. THE CONTRACTOR ACCESS GATE DESIGNATED FOR USE MAY BE UTILIZED BY OTHER CONTRACTORS OR BASE PERSONNEL DURING THIS PROJECT. THE CONTRACTOR IS REQUIRED TO COORDINATE ACCESS WITH ALL PARTIES. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR ISSUES RELATED TO SITE ACCESS.
- IDENTIFICATION OF PERSONNEL: AT THE GOVERNMENTS' DISCRETION, ALL EMPLOYEES OF THE CONTRACTOR OR SUBCONTRACTORS REQUIRING ACCESS TO THE CONSTRUCTION SITE ARE REQUIRED TO BE SUPPLIED WITH IDENTIFICATION BADGES TO BE WORN AT ALL TIMES WHILE WITHIN THE WORK AREAS. BADGES SHALL BE SUPPLIED BY THE CONTRACTOR AND SHALL STATE " MCAS BEAUFORT CONTRACTOR - AIRFIELD STORMWATER REPAIR" BADGES CAN BE PLASTIC WALLET SIZE OR METAL PIN WITH A MINIMUM 2 1/2" DIAMETER AND MUST BE WORN ON OUTER GARMENTS SO AS TO BE CLEARLY VISIBLE. BADGING IS TO BE UNIFORM IN APPEARANCE AND SUFFICIENTLY DISTINCTIVE IN DESIGN OR COLOR TO CLEARLY IDENTIFY AN EMPLOYEE AS BEING ASSIGNED/ASSOCIATED WITH THIS CONTRACT. THE BADGE NUMBER SHALL BE PROMINENT FOR EASY IDENTIFICATION. BADGES ARE TO BE IDENTIFIED NUMERICALLY AND ISSUED INDIVIDUALLY TO WHOM IT IS ASSIGNED. BLOCKS OF NUMBERS CAN BE ASSIGNED TO SUBCONTRACTORS. SUPPLY, ISSUANCE AND CONTROL OF IDENTIFICATION BADGES SHALL BE THAT OF THE CONTRACTOR THROUGH THE SUPERINTENDENT.
- IDENTIFICATION OF VEHICLES: THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A LIST OF CONTRACTOR AND SUB-CONTRACTOR VEHICLES AUTHORIZED TO OPERATE ON THE SITE. THE CONTRACTOR SHALL ISSUE TO THE CONSTRUCTION MANAGER, A CURRENT LIST OF COMPANIES AUTHORIZED TO ENTER AND CONDUCT WORK ON THE AIRFIELD. CONTRACTOR EMPLOYEE PERSONAL VEHICLES ARE NOT ALLOWED ON THE AIRFIELD AT ANY TIME.

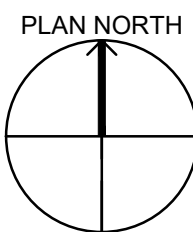


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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27062	<b>CEMS</b> ENGINEERING   ARCHITECTURE DESIGN   CONSTRUCTION   ASBESTOS	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND <b>MARINE CORPS AIR STATION</b> BEAUFORT, S.C.	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	LEGEND AND GENERAL NOTES	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	SIZE F	CODE IDENT. NO. N A V F A C DRAWING NO.
PUBLIC WORKS OFFICER		HQMC PROJ NO.: BE2004M	CONSTR. CONTR. NO.: N40085-15-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 3 OF 35



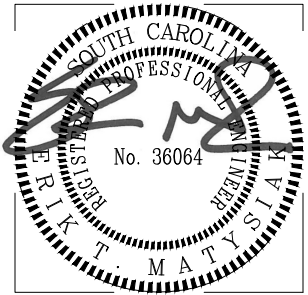
1 OVERALL EXISTING CONDITIONS SITE PLAN  
SCALE: NOT TO SCALE



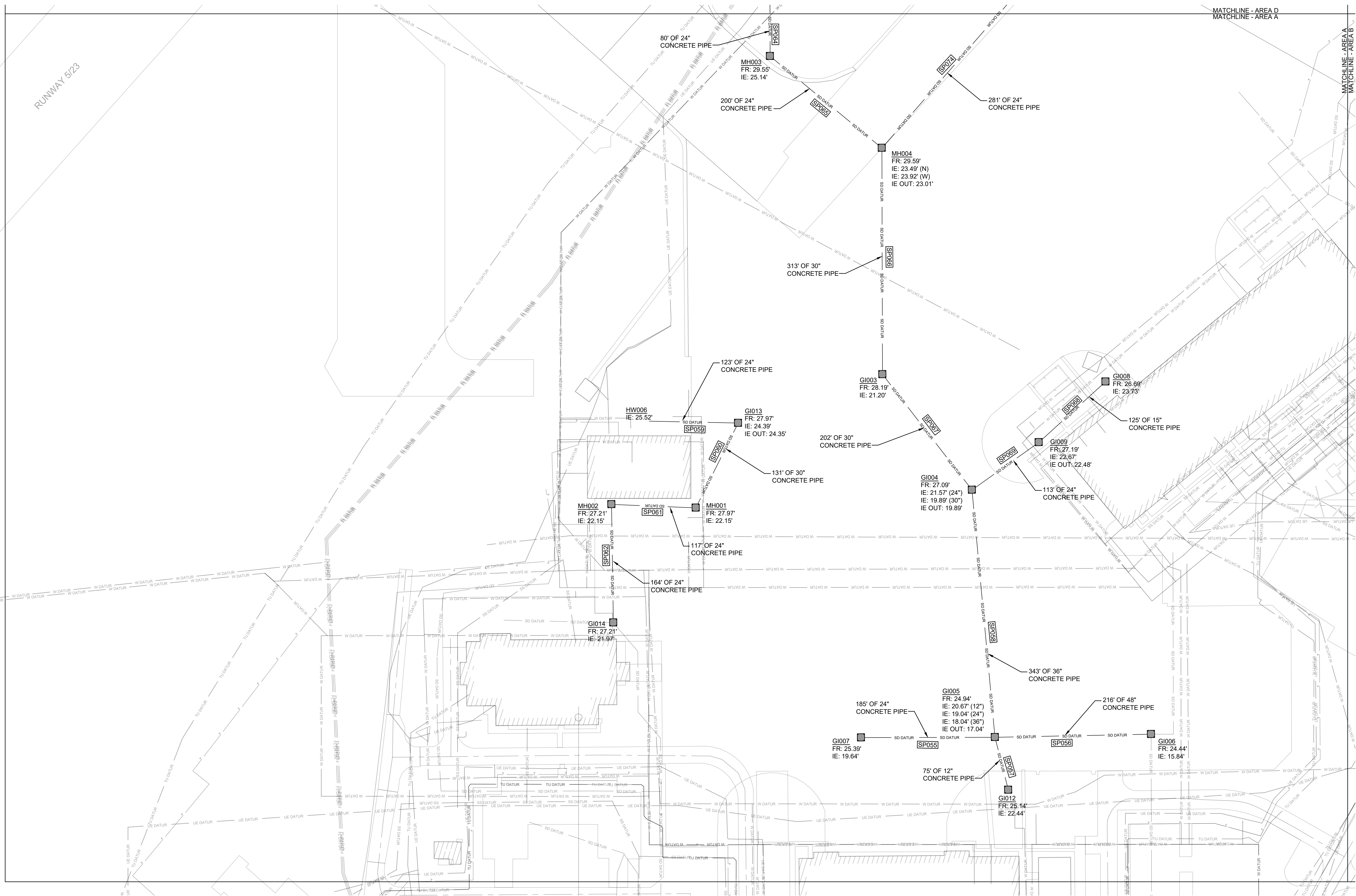
YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

REVISIONS		

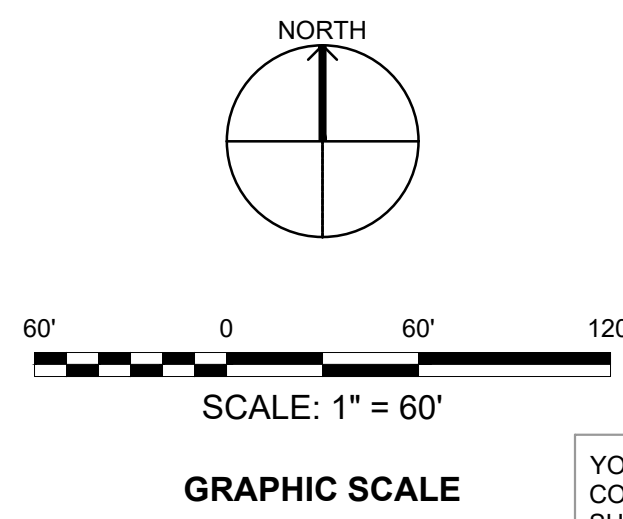
IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY		ISSUE DATE: APR 27, 2020	
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27063	<div>CEMS ENGINEERING   ARCHITECTURE</div> <div>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</div>	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	VF101 MARINE CORPS AIR STATION REARPORT, S.C.	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	OVERALL EXISTING CONDITIONS PLAN	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	SIZE F	CODE IDENT. NO. NAV F A C DRAWING NO. HOMC PROJ. NO.: BE2004M CONSTR. CONTR. NO.: N40085-18-D-0616 SCALE: AS NOTED MACC. T.O. # SHEET 4 OF 35







**A1** EXISTING CONDITIONS PLAN - AREA A  
SCALE: 1" = 60'-0"

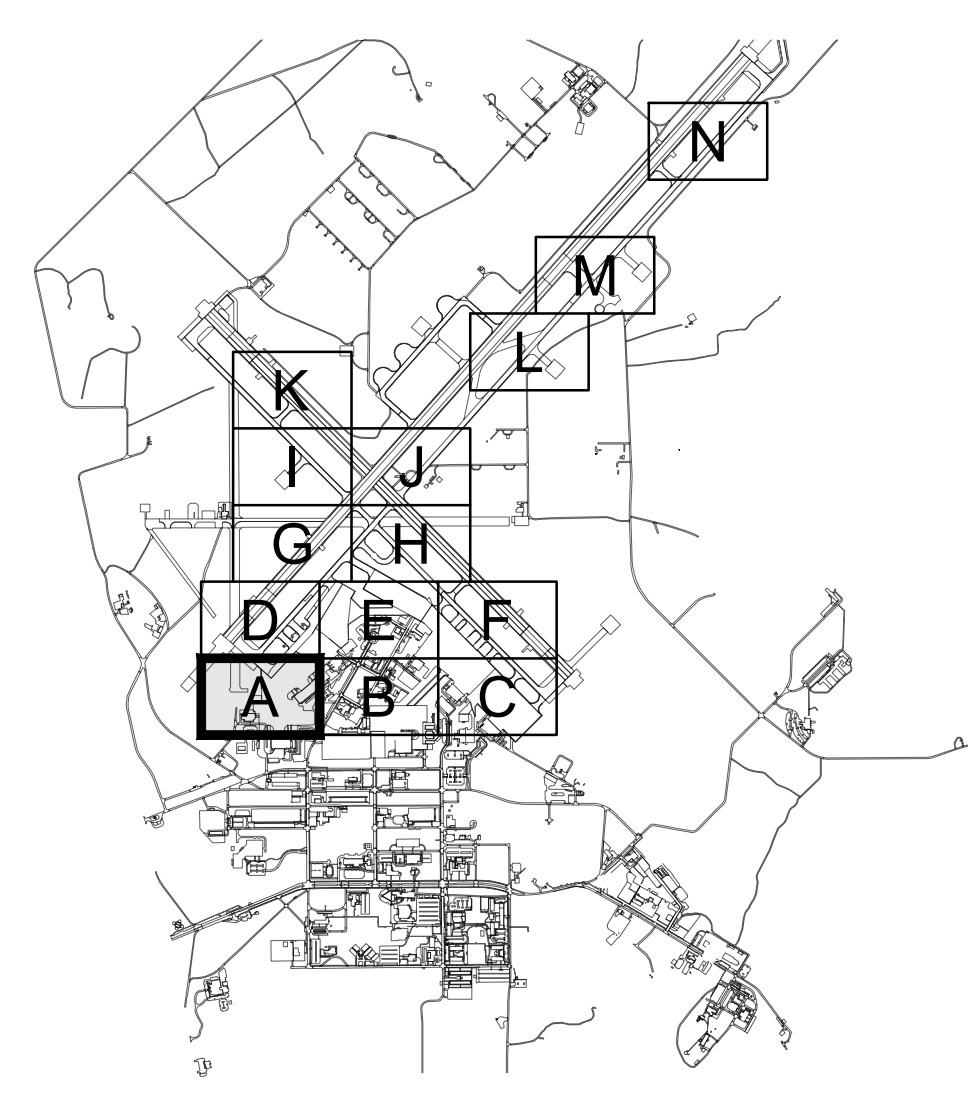


YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

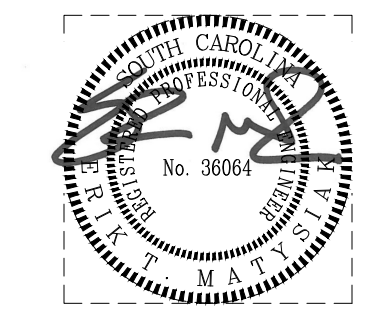
REVISIONS

GENERAL NOTES

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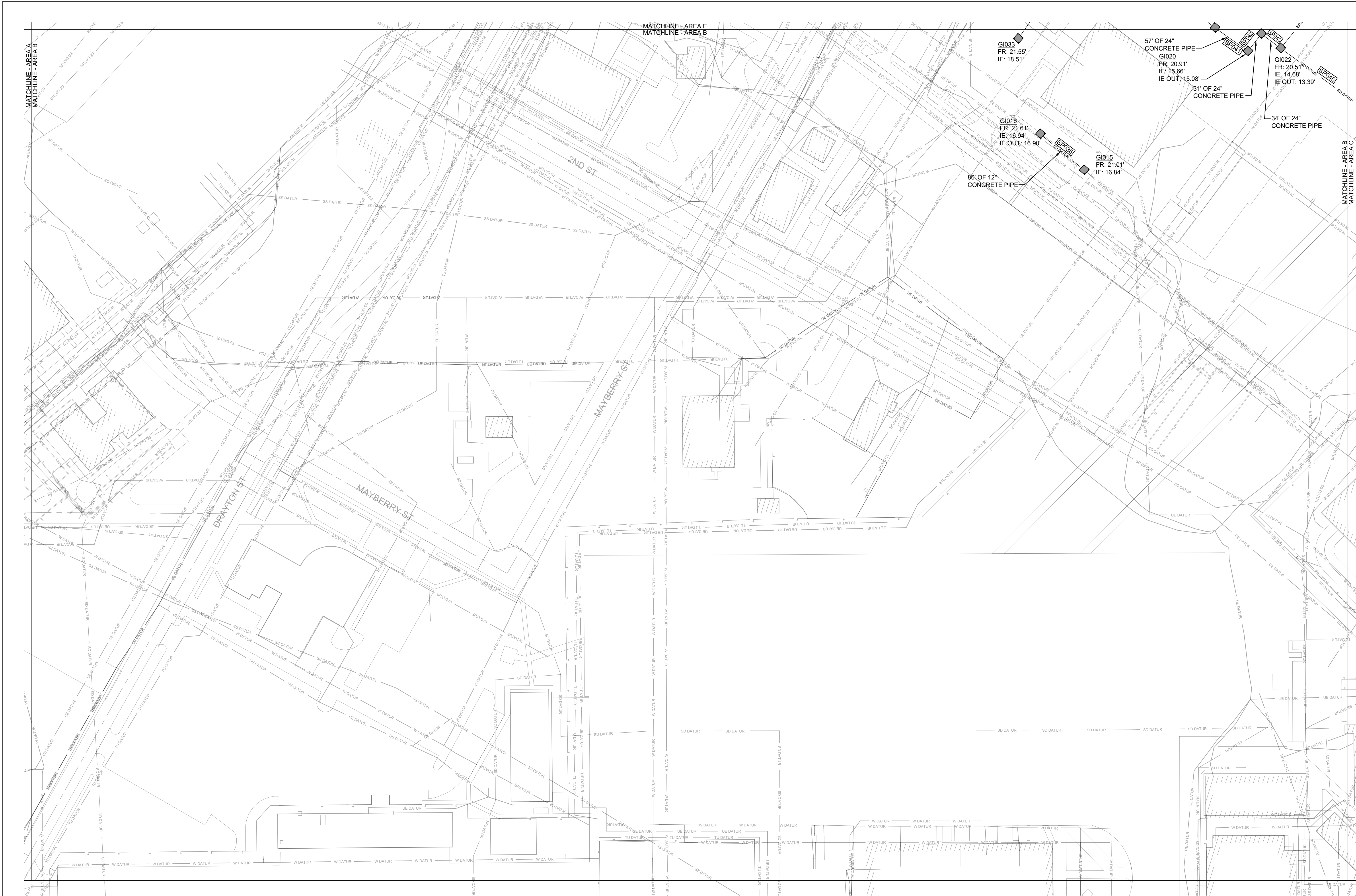


KEYPLAN

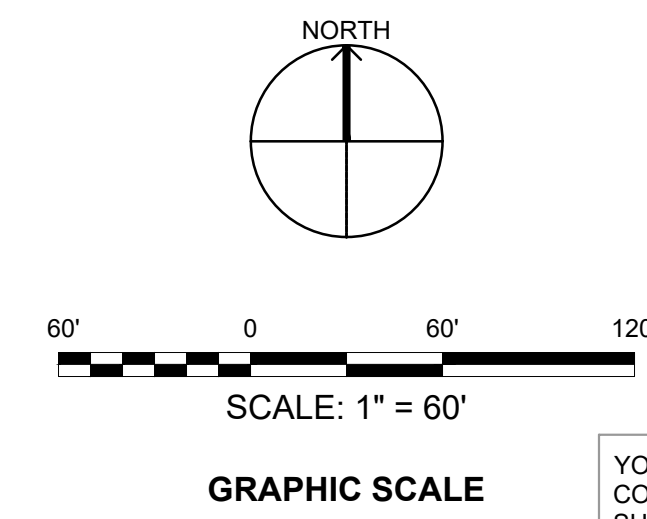


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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27064	<b>CEMS</b> ENGINEERING   ARCHITECTURE <small>REGISTERED PROFESSIONAL ENGINEERS</small>	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVFACINST-64C <b>MARINE CORPS AIR STATION</b>	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	EXISTING CONDITIONS PLAN - AREA A	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	SIZE <b>F</b>	CODE IDENT. NO.
	PUBLIC WORKS OFFICER	HOMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 5 OF 35





1 EXISTING CONDITIONS PLAN - AREA B  
SCALE: 1" = 60'-0"

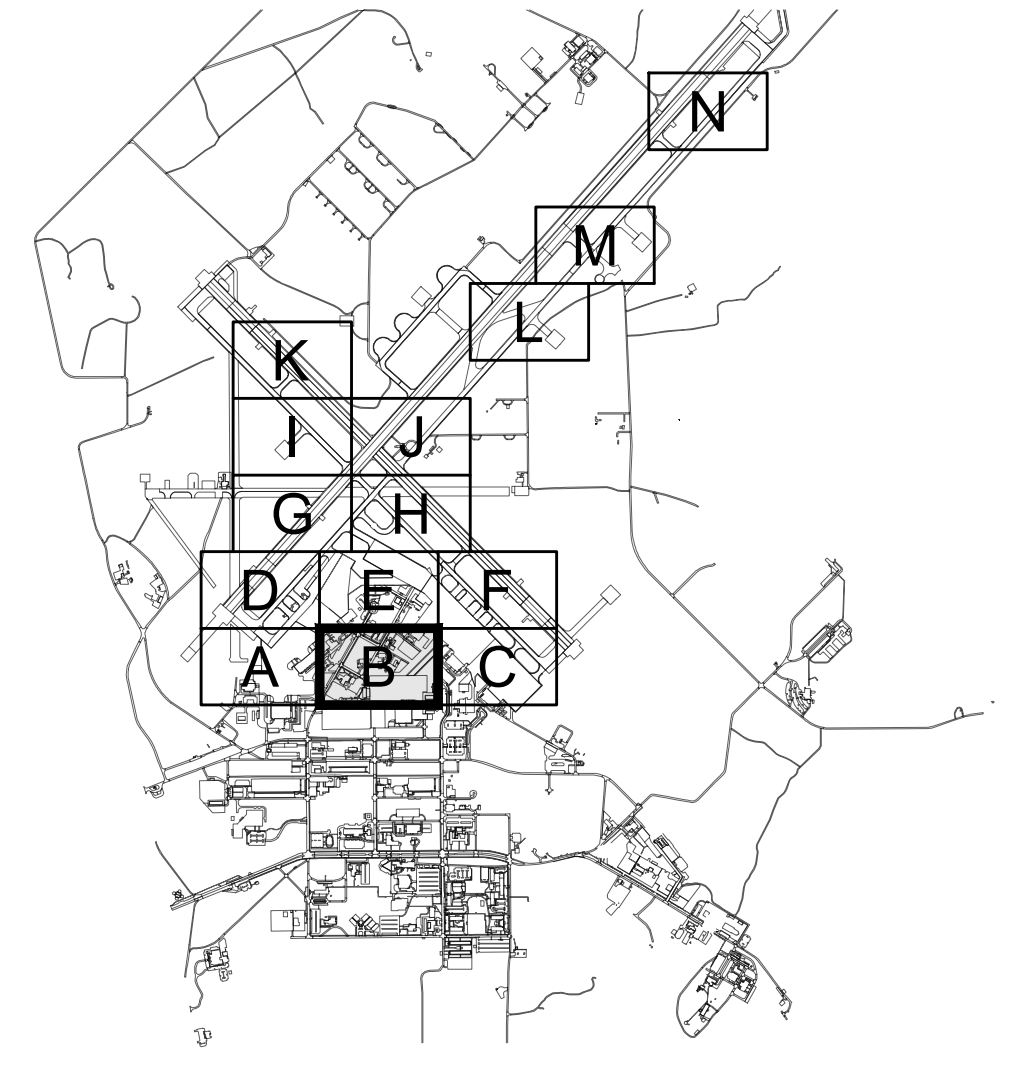


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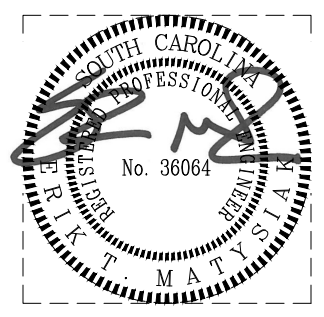
REVISIONS

GENERAL NOTES

1. SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
2. STORM PIPE AND STRUCTURE INFORMATION SHOWN IS BASED ON GIS DATA AND RECORD DRAWINGS PROVIDED BY MCAS BEAUFORT.
3. ALL EXISTING STORM PIPES (SP###) AND STRUCTURES SHOWN ON THE VF SHEETS ARE WITHIN PROJECT SCOPE.
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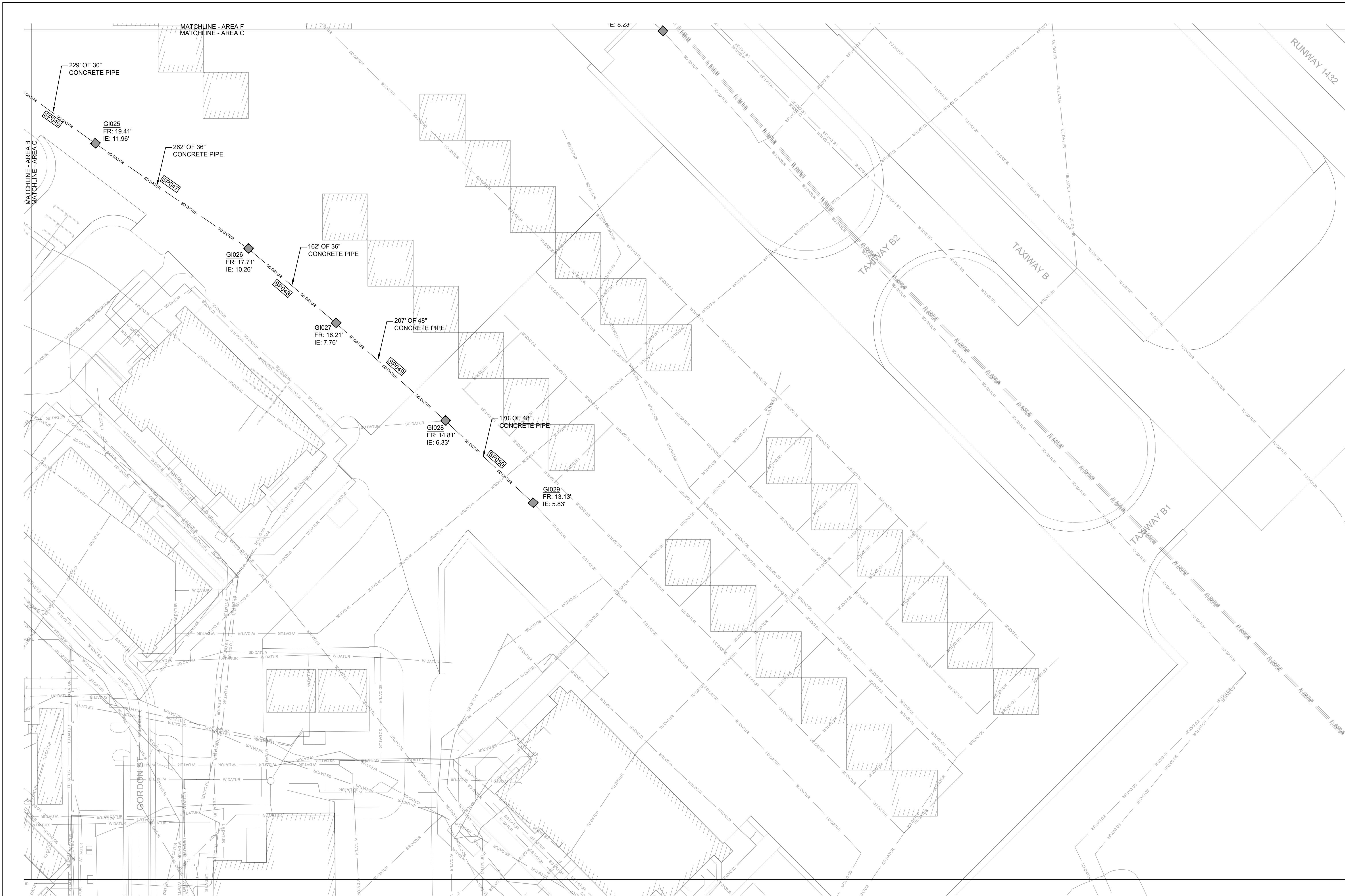
KEYPLAN



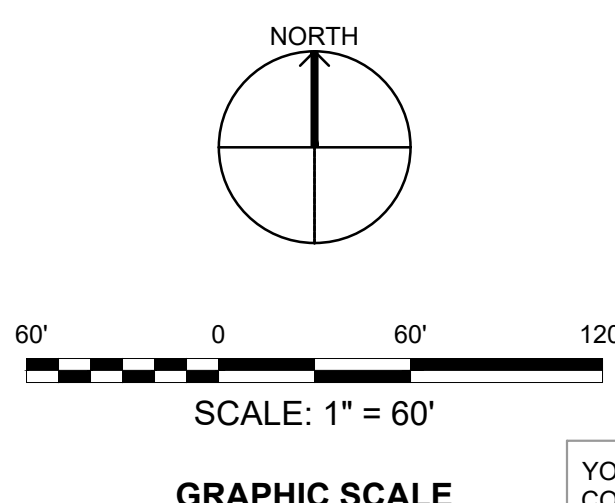
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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE		P.W. DWG. NO. 27065	CEMS ENGINEERING   ARCHITECTURE Matthew S. C. No. 35064		VF103	
SAFETY DEPARTMENT SATISFACTORY TO DATE		DRAWN BY J. CARROLL/E. MATYSIAK	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND Beaufort, NC		MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE		CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)		EXISTING CONDITIONS PLAN - AREA B	
PHYSICAL SECURITY SATISFACTORY TO DATE		SUPERVISOR S. THOMAS	SIZE F		CODE IDENT. NO.	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE		APPROVED DATE	HOMC PROJ. NO.: BE2004M		NAVFAC DRAWING NO.	
		PUBLIC WORKS OFFICER	SCALE: AS NOTED		MACC.	
			T.O. #		SHEET 6 OF 35	





1 EXISTING CONDITIONS PLAN - AREA C  
SCALE: 1" = 60'-0"

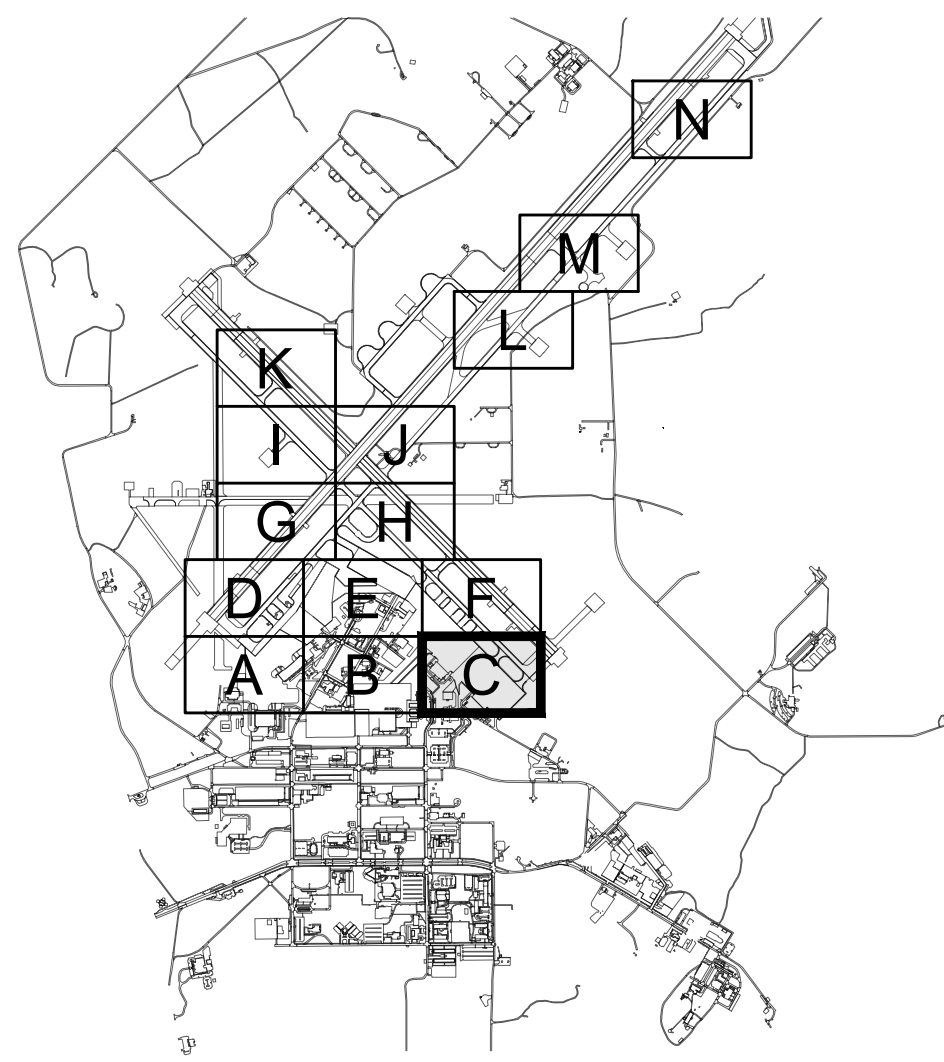


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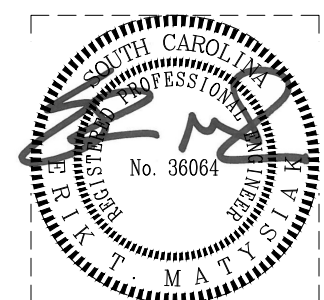
REVISIONS

GENERAL NOTES

1. SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
2. STORM PIPE AND STRUCTURE INFORMATION SHOWN IS BASED ON GIS DATA AND RECORD DRAWINGS PROVIDED BY MCAS BEAUFORT.
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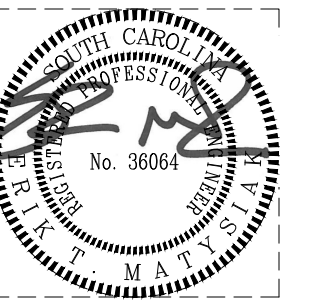
KEYPLAN




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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27066	CEMS ENGINEERING   ARCHITECTURE REGISTERED PROFESSIONAL ENGINEERS		VF104
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND REPAIRS, INC. MARINE CORPS AIR STATION		
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)		
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	EXISTING CONDITIONS PLAN - AREA C		
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	SIZE F	CODE IDENT. NO. HOMC PROJ. NO.: BE2004M SCALE: AS NOTED	NAV F A C DRAWING NO. CONSTR. CONTR. NO.: N40085-18-D-0616 MACC. T.O. # SHEET 7 OF 35





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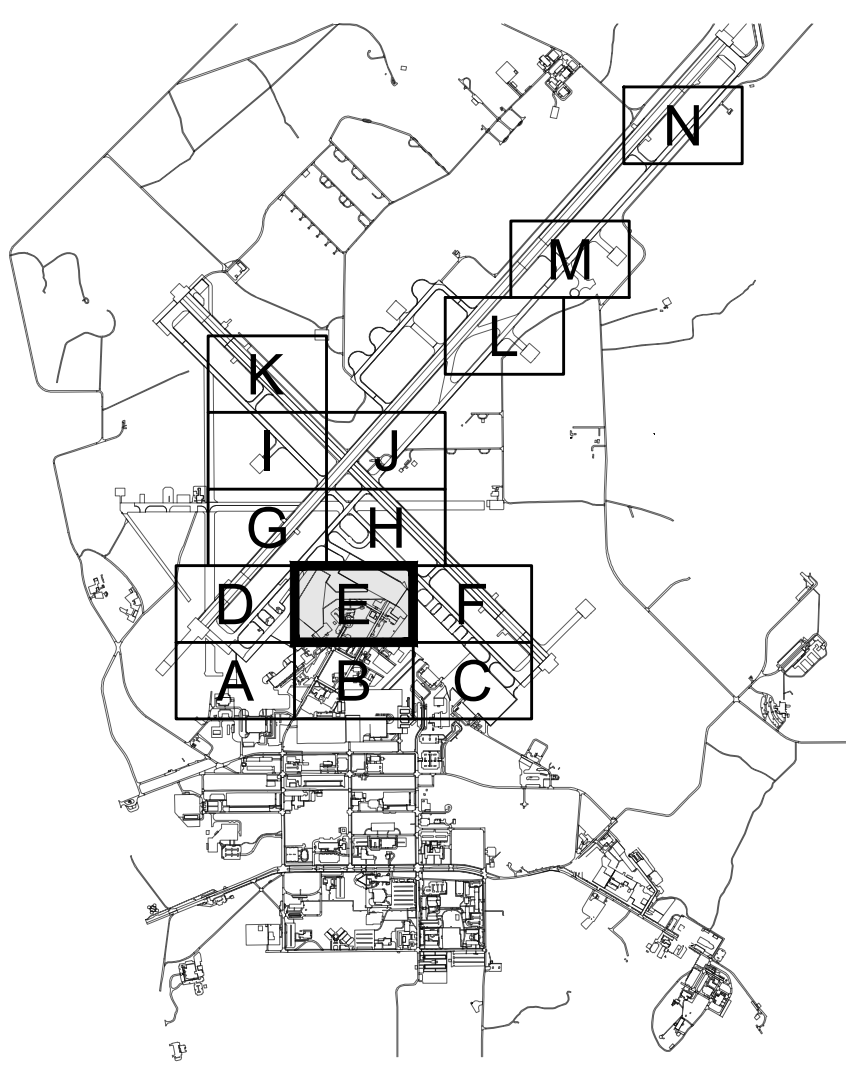
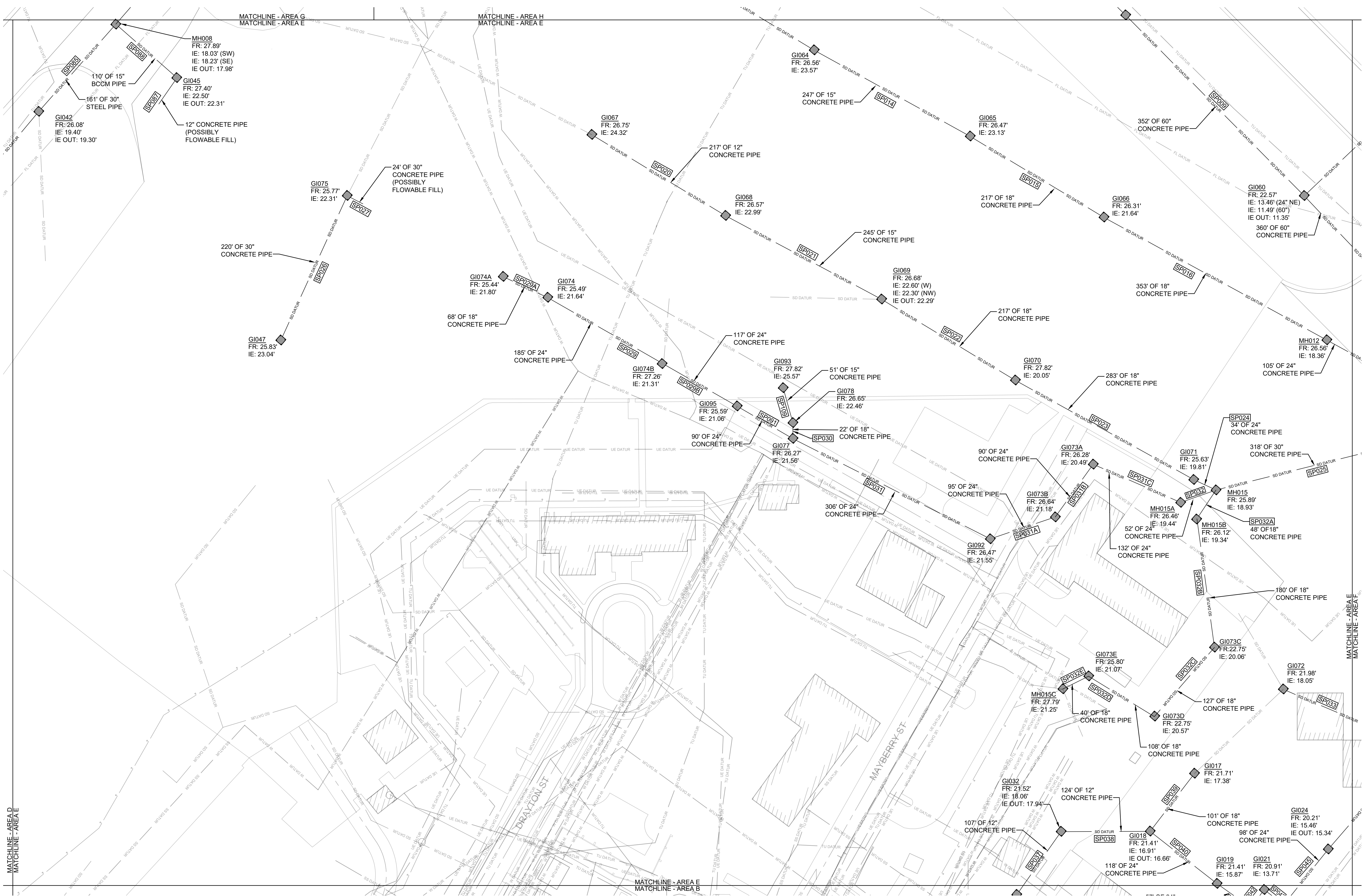
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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE		P.W. DWG. NO. 27067	
SAFETY DEPARTMENT SATISFACTORY TO DATE		 VF105	
FIRE DEPARTMENT SATISFACTORY TO DATE		DRAWN BY J. CARROLL/E. MATYSIAK	
PHYSICAL SECURITY SATISFACTORY TO DATE		CHECKED BY D. FARLEY/C. MOORING	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE		SUPERVISOR S. THOMAS	
APPROVED		DATE	
PUBLIC WORKS OFFICER		SIZE <b>F</b>	
		CODE IDENT. NO. N A V F A C DRAWING NO.	
		HQMC PROJ. NO.: BE2004M CONSTR. CONTR. NO.: N40085-18-D-0616	
		SCALE: AS NOTED MACC.	
		T.O. # SHEET 8 OF 35	



REVISIONS

GENERAL NOTES

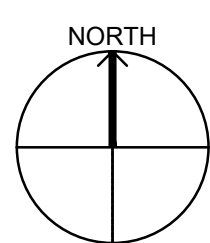
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KEYPLAN

1 EXISTING CONDITIONS PLAN - AREA E

SCALE: 1" = 60'-0"



60' 0 60' 120'

SCALE: 1" = 60'

GRAPHIC SCALE

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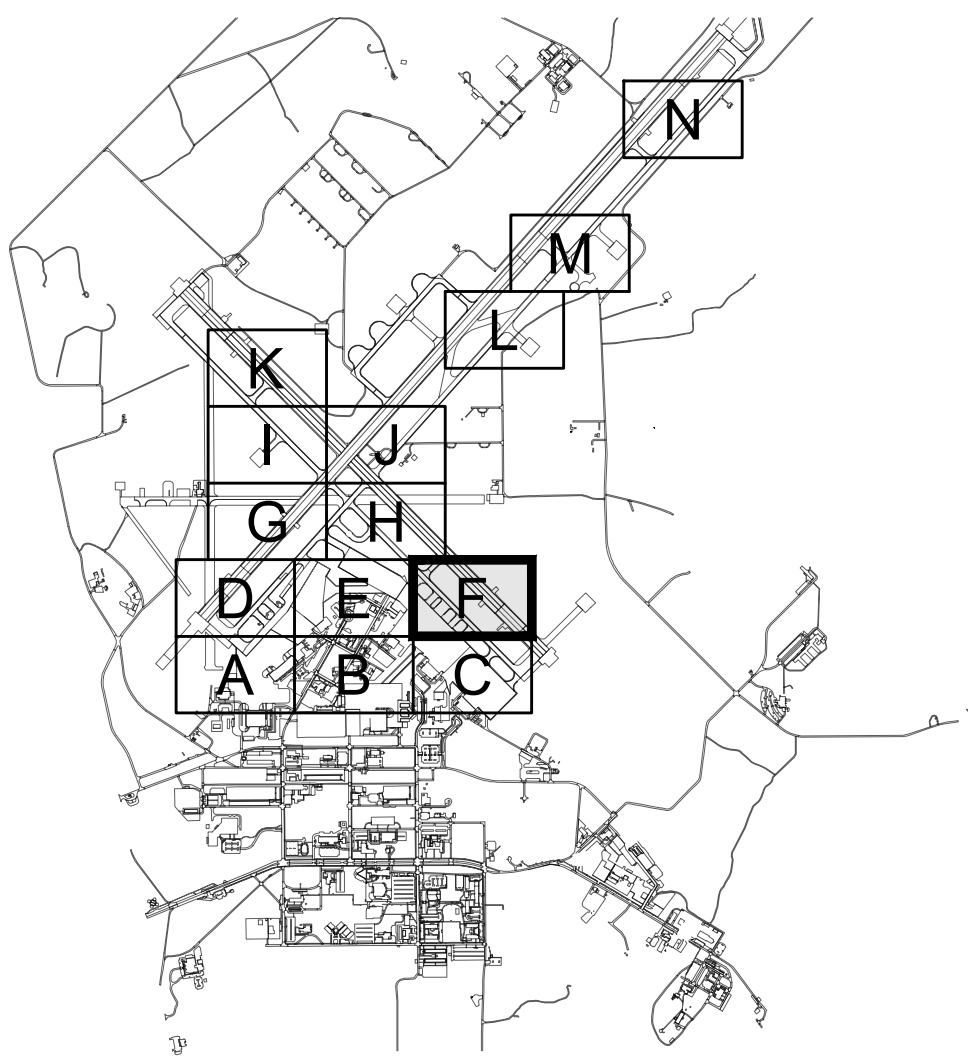
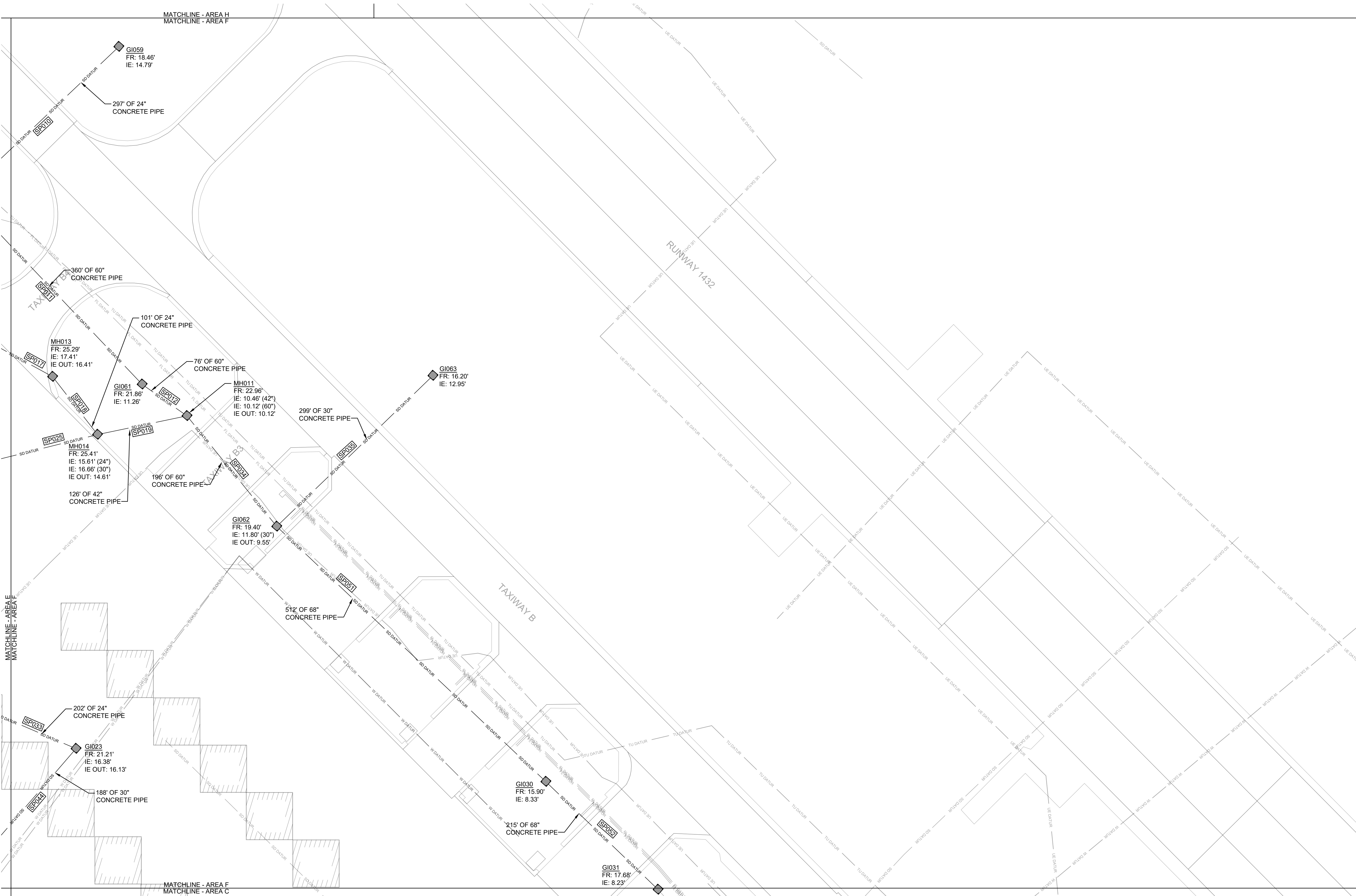
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27068	<div>CEMS ENGINEERING   ARCHITECTURE <small>REGISTERED PROFESSIONAL ENGINEER REGISTERED PROFESSIONAL ARCHITECT</small></div>		VF106
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	<div>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND <b>MARINE CORPS AIR STATION</b> BEAUFORT, S.C.  AIRFIELD STORMWATER REPAIRS (BE2004M)   EXISTING CONDITIONS PLAN - AREA E</div>		
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING			
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS			
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED                      DATE			
		SIZE F	CODE IDENT. NO.	NAVFAC DRAWING NO.
		HQMCC PROJ. NO.: BE2004M      CONSTR. CONTR. NO.: N40085-18-D-0616		
	PUBLIC WORKS OFFICER	SCALE: AS NOTED	MACC.	T.O. #      SHEET      9   OF   35



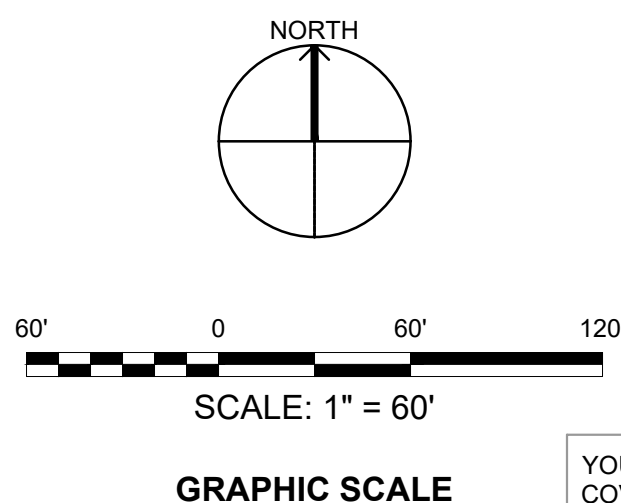
REVISIONS


GENERAL NOTES

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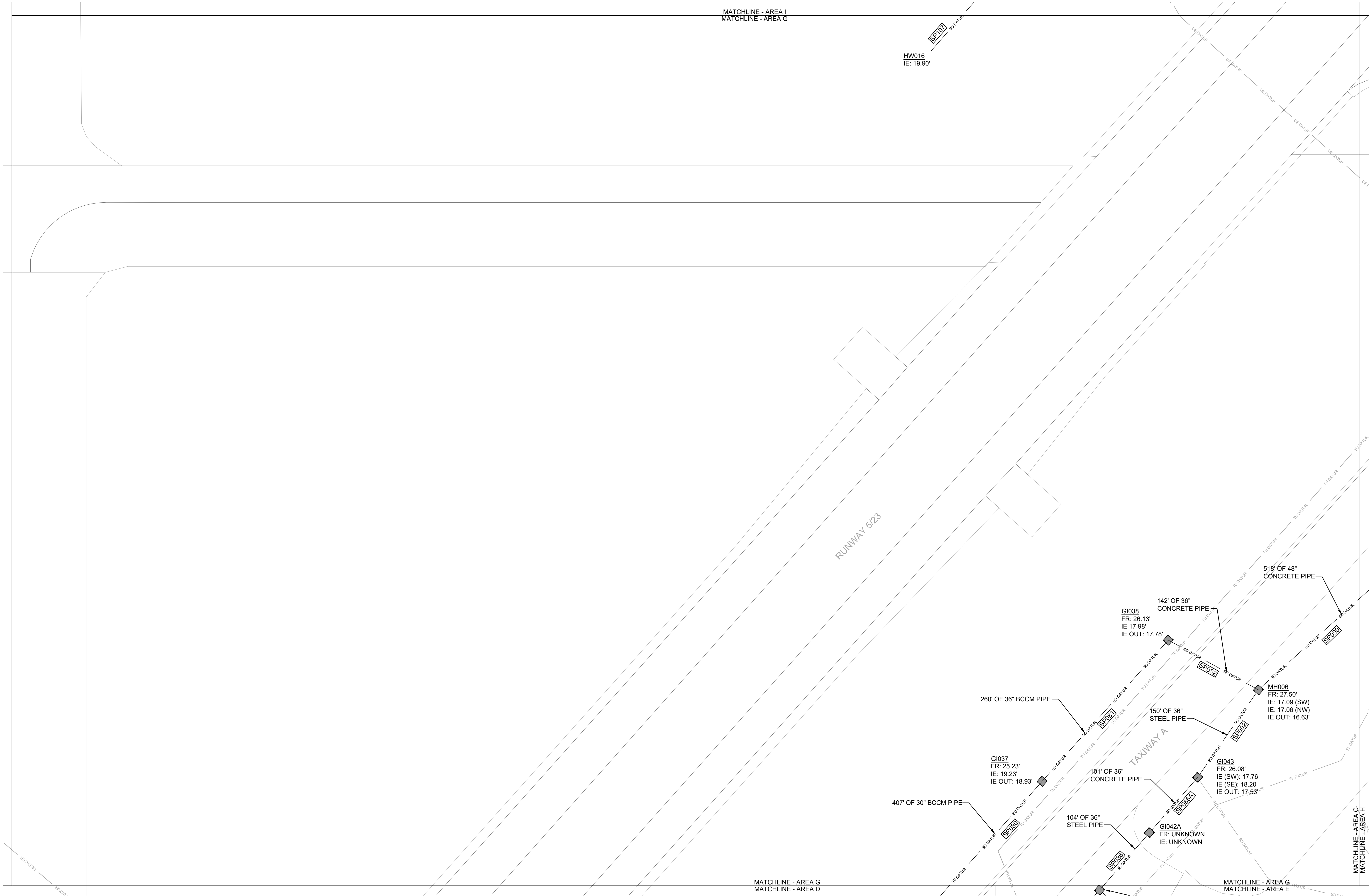
1 EXISTING CONDITIONS PLAN - AREA F  
SCALE: 1" = 60'-0"



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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27069	VF107	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	EXISTING CONDITIONS PLAN - AREA F	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	SIZE F	CODE IDENT. NO. NAVFAC DRAWING NO.
		HOMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 10 OF 35



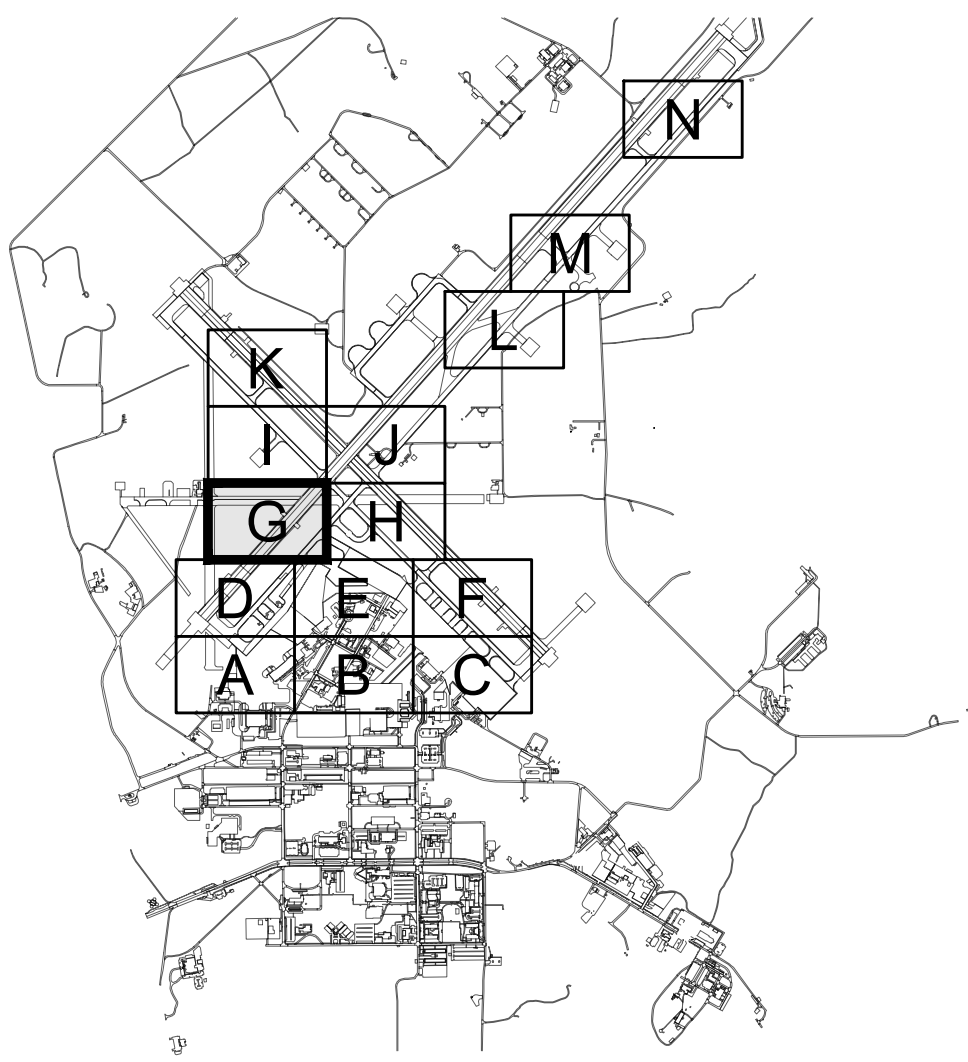


REVISIONS

NO.	DESCRIPTION	DATE

GENERAL NOTES

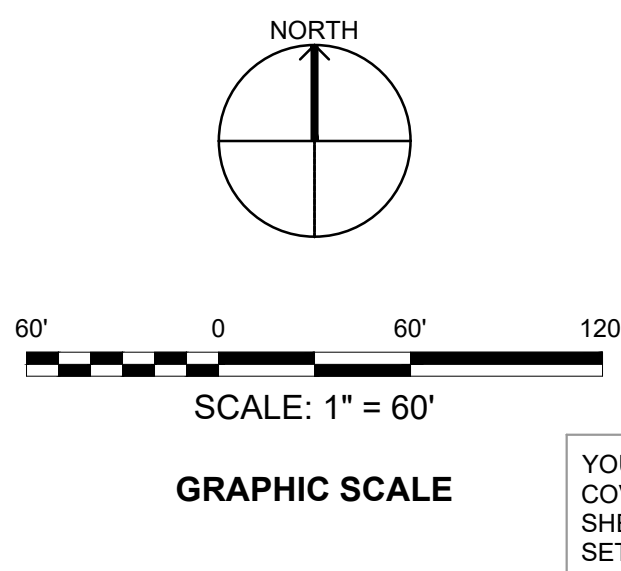
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1

EXISTING CONDITIONS PLAN - AREA G

SCALE: 1" = 60'-0"

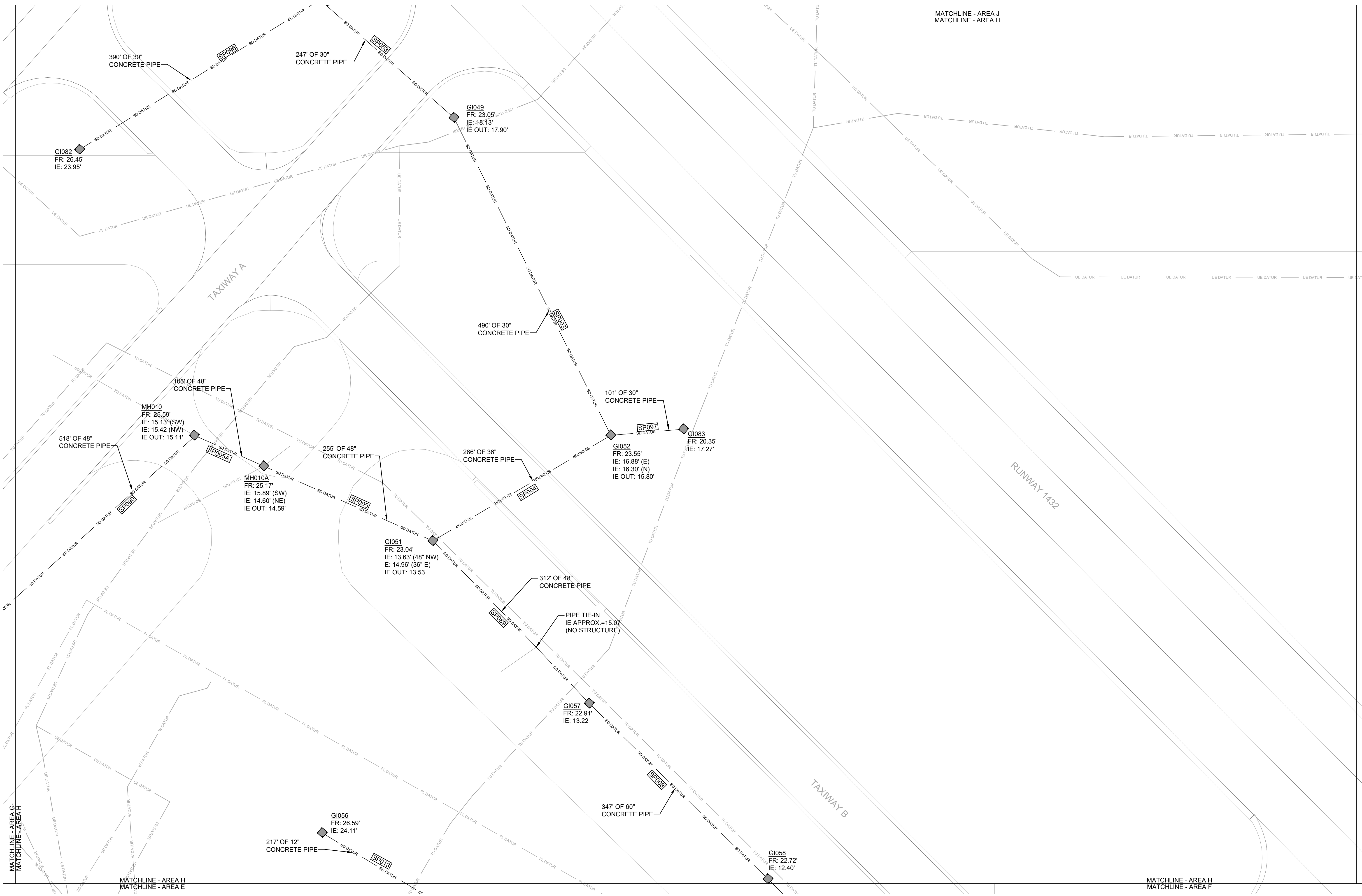


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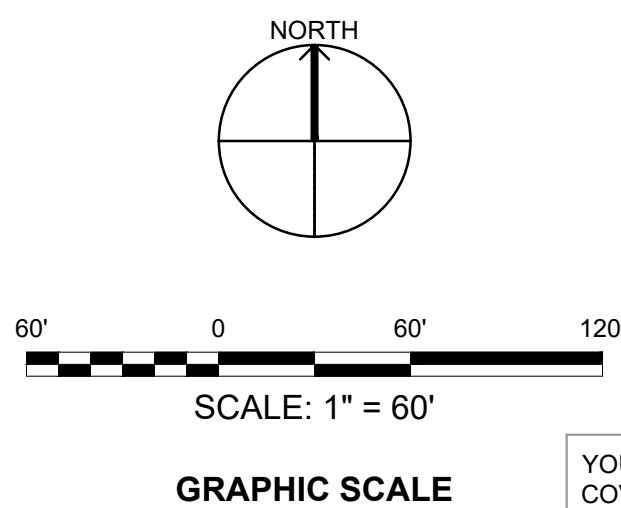
ISSUE DATE: APR 27, 2020

NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27070	<b>CEMS</b> ENGINEERING   ARCHITECTURE <small>REGISTERED PROFESSIONAL ENGINEERS</small>	VF108
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK		
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND BEAUFORT, S.C. <b>MARINE CORPS AIR STATION</b>	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	EXISTING CONDITIONS PLAN - AREA G	
		SIZE F	CODE IDENT. NO.
		N A V F A C DRAWING NO.	
		HOMC PROJ. NO.: BE2004M CONSTR. CONTR. NO.: N40085-18-D-0616	
		SCALE: AS NOTED	MACC. T.O. # SHEET 11 OF 35





1 EXISTING CONDITIONS PLAN - AREA H  
SCALE: 1" = 60'-0"

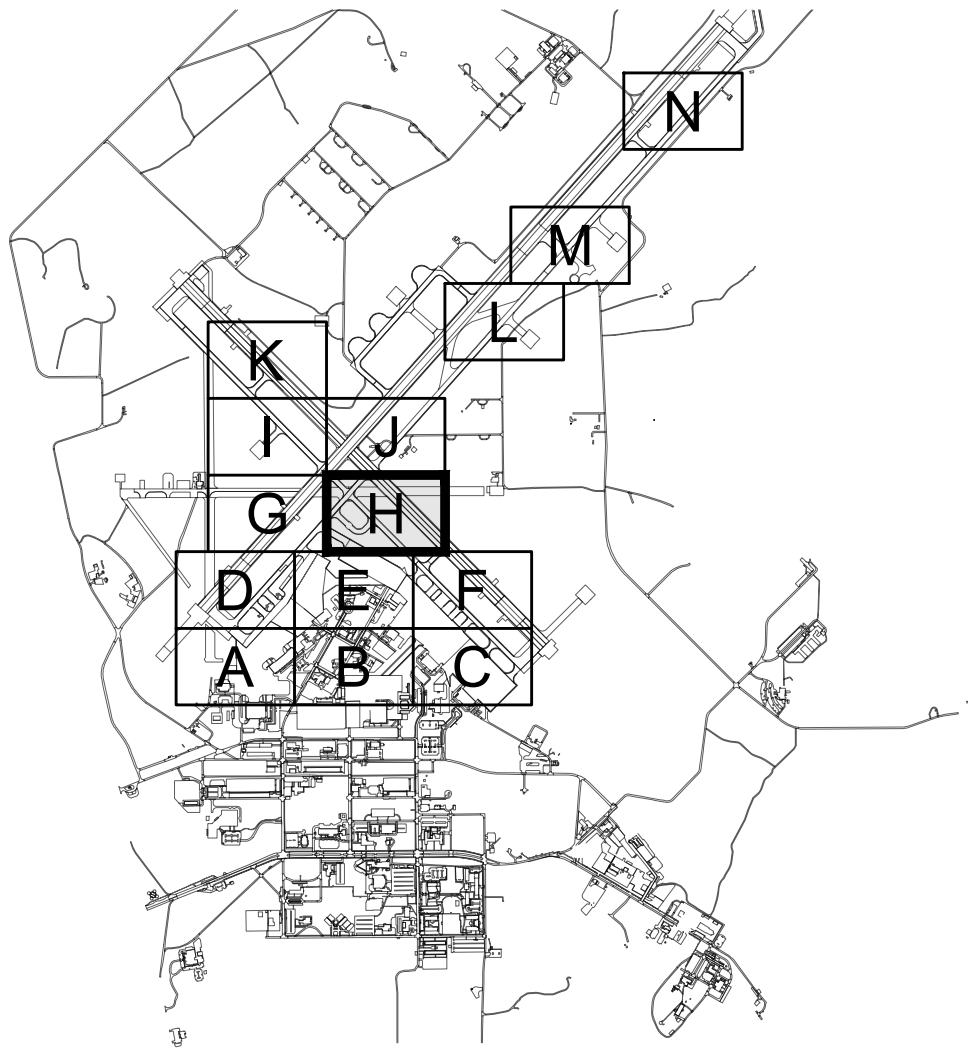


YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

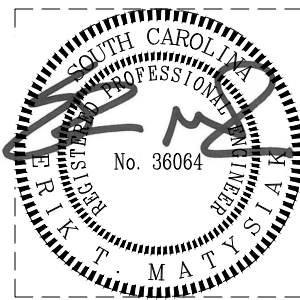
REVISIONS

GENERAL NOTES

1. SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
2. STORM PIPE AND STRUCTURE INFORMATION SHOWN IS BASED ON GIS DATA AND RECORD DRAWINGS PROVIDED BY MCAS BEAUFORT.
3. ALL EXISTING STORM PIPES (SP####) AND STRUCTURES SHOWN ON THE VF SHEETS ARE WITHIN PROJECT SCOPE.
4. CCTV INSPECTION REPORT "AIRFIELD STORMWATER REPAIRS" BY GEL SOLUTIONS DATED 10/4/2019 CONTAINS CAMERA INSPECTION DATA OF SCOPED STORM DRAIN PIPES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AS-BUILT SURVEY OF ALL THE STORM DRAINAGE (EXISTING, REPAIRED, AND REPLACED) WITHIN THIS PROJECT SCOPE. SURVEY SHALL CAPTURE ALL STORM PIPES AND STRUCTURES. SURVEY SHALL PROPERLY VERIFY THE LOCATION, ELEVATION / DEPTH, RIM, INVERT(S) AND PIPE SIZE(S) AT EACH STORM STRUCTURE.



KEYPLAN



IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY  
ISSUE DATE: APR 27, 2020

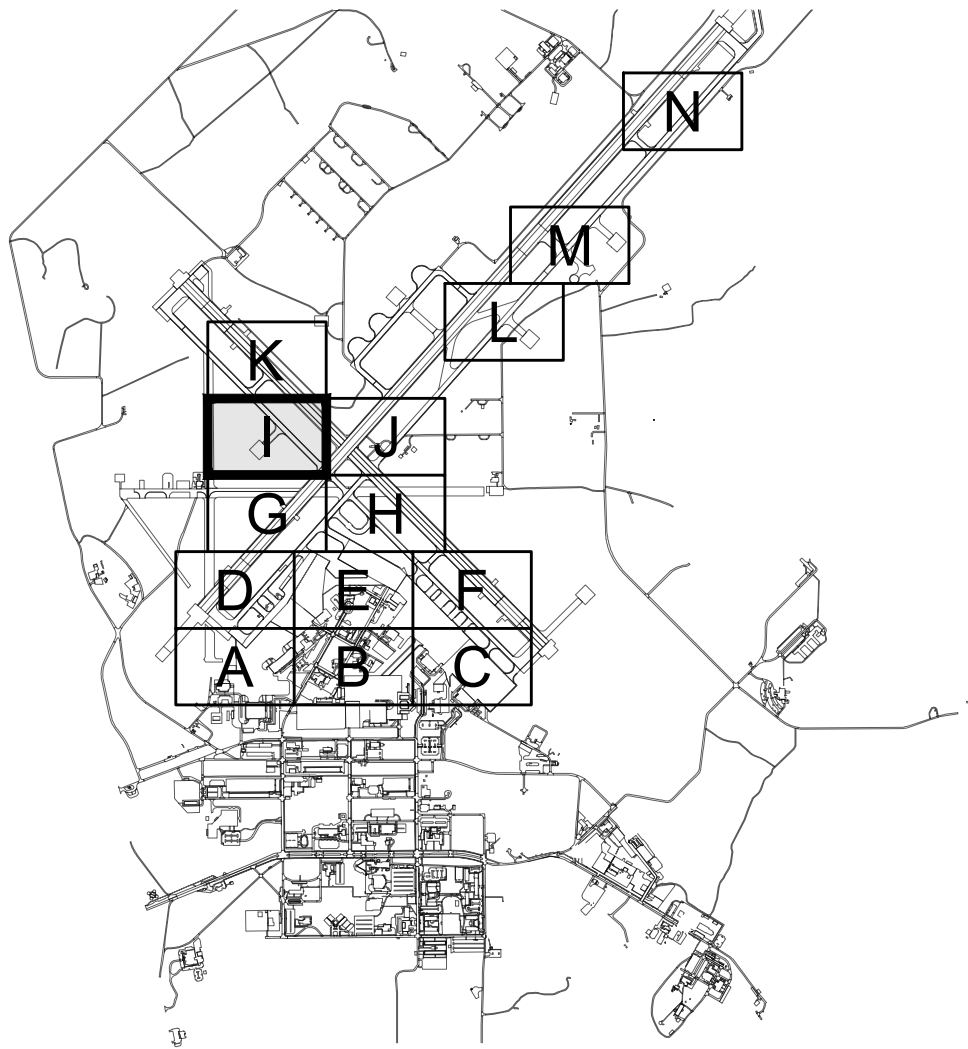
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE		P.W. DWG. NO. 27071		<div>CEMS ENGINEERING   ARCHITECTURE</div> <div>REGISTERED PROFESSIONAL ENGINEERS Matthew S. C. No. 30064</div>		VF109	
SAFETY DEPARTMENT SATISFACTORY TO DATE		DRAWN BY J. CARROLL/E. MATYSIAK		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND		MARINE CORPS AIR STATION BEAUFORT, S.C.  AIRFIELD STORMWATER REPAIRS (BE2004M)  EXISTING CONDITIONS PLAN - AREA H	
FIRE DEPARTMENT SATISFACTORY TO DATE		CHECKED BY D. FARLEY/C. MOORING					
PHYSICAL SECURITY SATISFACTORY TO DATE		SUPERVISOR S. THOMAS					
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE		APPROVED DATE		SIZE F	CODE IDENT. NO.	NAV F A C DRAWING NO.	
				HOMC PROJ. NO.: BE2004M		CONSTR. CONTR. NO.: N40085-18-D-0616	
		PUBLIC WORKS OFFICER		SCALE: AS NOTED	MACC.	T.O. #	SHEET 12 OF 35



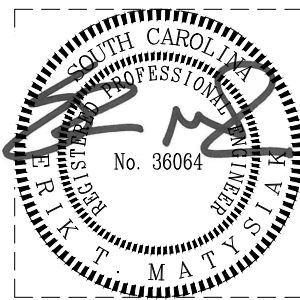
REVISIONS		

GENERAL NOTES

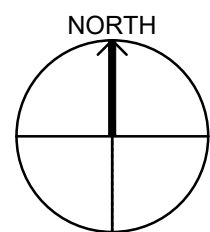
- SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
- STORM PIPE AND STRUCTURE INFORMATION SHOWN IS BASED ON GIS DATA AND RECORD DRAWINGS PROVIDED BY MCAS BEAUFORT.
- ALL EXISTING STORM PIPES (SP###) AND STRUCTURES SHOWN ON THE VF SHEETS ARE WITHIN PROJECT SCOPE.
- CCTV INSPECTION REPORT "AIRFIELD STORMWATER REPAIRS" BY GEL SOLUTIONS DATED 10/4/2019 CONTAINS CAMERA INSPECTION DATA OF SCOPED STORM DRAIN PIPES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AS-BUILT SURVEY OF ALL THE STORM DRAINAGE (EXISTING, REPAIRED, AND REPLACED) WITHIN THIS PROJECT SCOPE. SURVEY SHALL CAPTURE ALL STORM PIPES AND STRUCTURES. SURVEY SHALL PROPERLY VERIFY THE LOCATION, ELEVATION / DEPTH, RIM, INVERT(S) AND PIPE SIZE(S) AT EACH STORM STRUCTURE.



KEYPLAN



1 EXISTING CONDITIONS PLAN - AREA I  
SCALE: 1" = 60'-0"



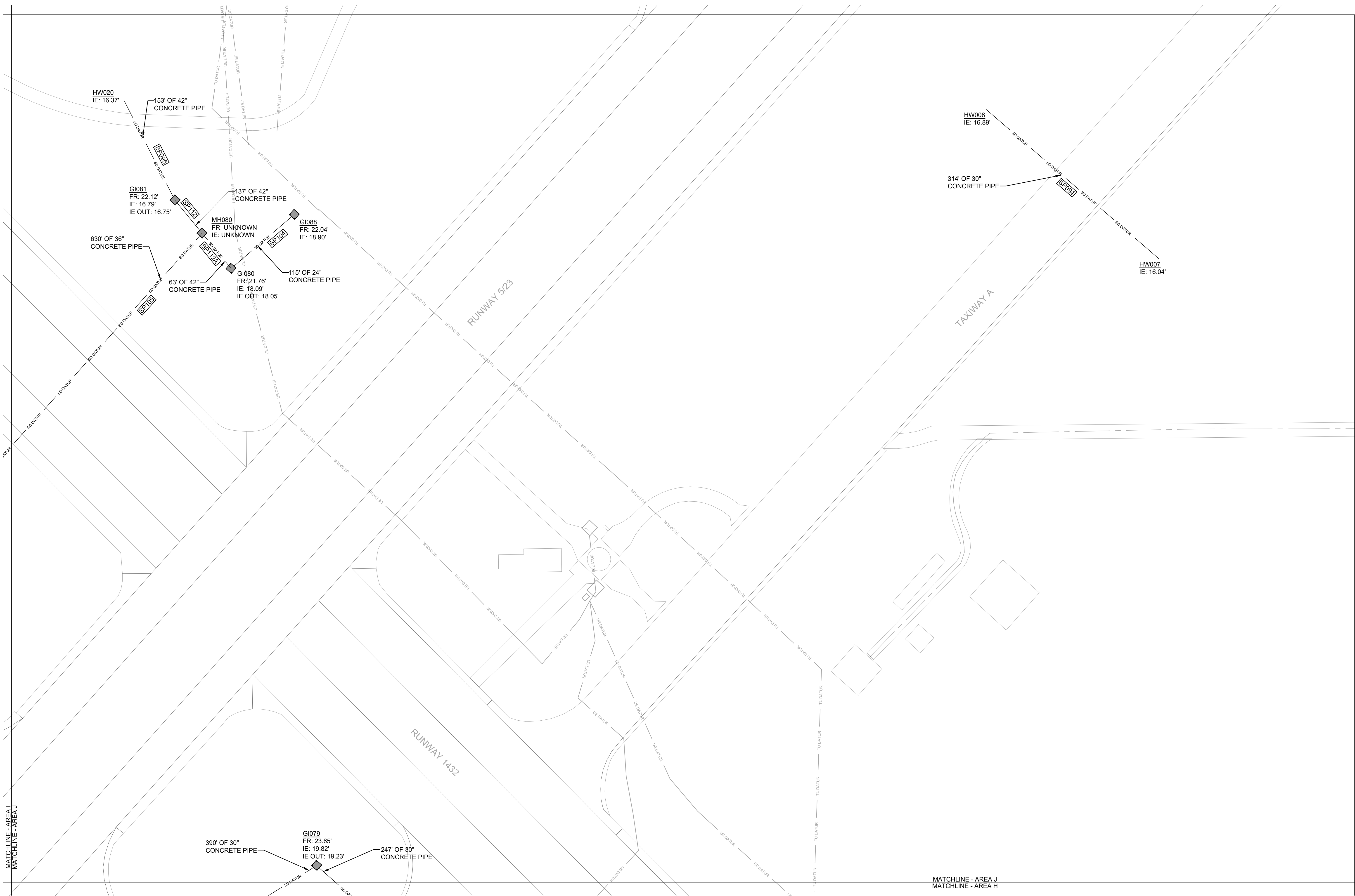
60' 0 60' 120'

SCALE: 1" = 60'

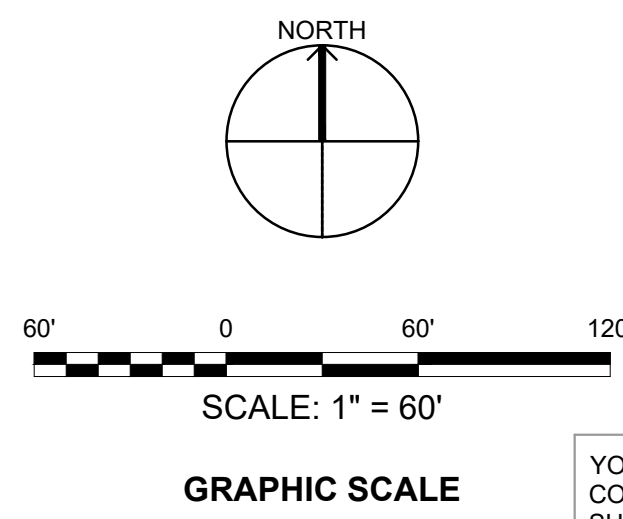
GRAPHIC SCALE

YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY		ISSUE DATE: APR 27, 2020	
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27072	VF110	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	EXISTING CONDITIONS PLAN - AREA I	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	SIZE F	CODE IDENT. NO. NAVFAC DRAWING NO.
		HOMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 13 OF 35

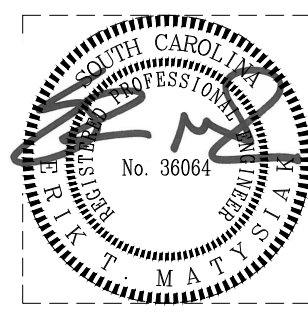
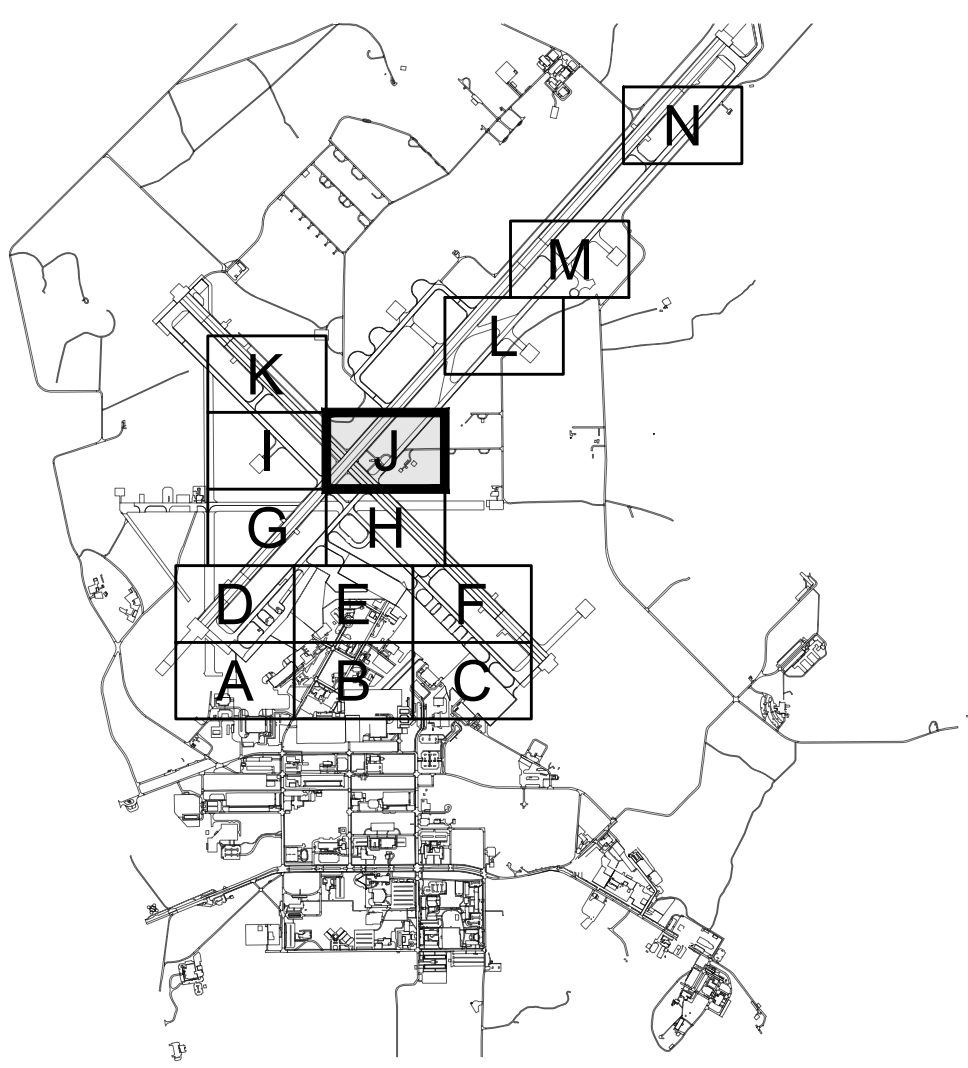


1 EXISTING CONDITIONS PLAN - AREA J  
SCALE: 1" = 60'-0"



YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

- REVISIONS
- | NO. | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
|     |             |      |    |
|     |             |      |    |
|     |             |      |    |
|     |             |      |    |
- GENERAL NOTES
- SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
  - STORM PIPE AND STRUCTURE INFORMATION SHOWN IS BASED ON GIS DATA AND RECORD DRAWINGS PROVIDED BY MCAS BEAUFORT.
  - ALL EXISTING STORM PIPES (SP###) AND STRUCTURES SHOWN ON THE VF SHEETS ARE WITHIN PROJECT SCOPE.
  - CCTV INSPECTION REPORT "AIRFIELD STORMWATER REPAIRS" BY GEL SOLUTIONS DATED 10/4/2019 CONTAINS CAMERA INSPECTION DATA OF SCOPED STORM DRAIN PIPES.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AS-BUILT SURVEY OF ALL THE STORM DRAINAGE (EXISTING, REPAIRED, AND REPLACED) WITHIN THIS PROJECT SCOPE. SURVEY SHALL CAPTURE ALL STORM PIPES AND STRUCTURES. SURVEY SHALL PROPERLY VERIFY THE LOCATION, ELEVATION / DEPTH, RIM, INVERT(S) AND PIPE SIZE(S) AT EACH STORM STRUCTURE.



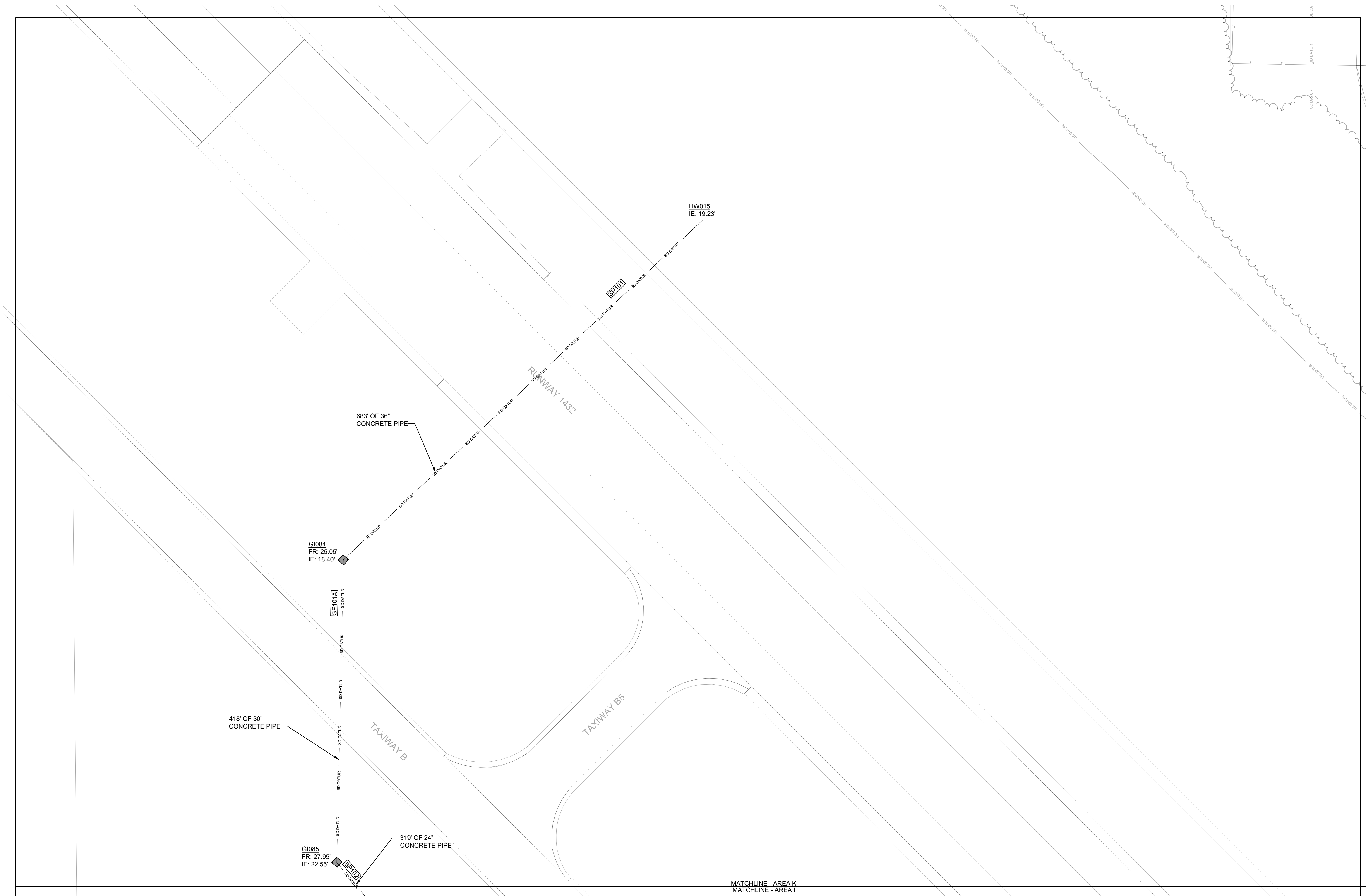
IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY		ISSUE DATE: APR 27, 2020	
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27073	VF111	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	EXISTING CONDITIONS PLAN - AREA J	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	SIZE F	CODE IDENT. NO. HOMC PROJ. NO.: BE2004M SCALE: AS NOTED
		NAVFAC DRAWING NO. CONSTR. CONTR. NO.: N40085-18-D-0616 MACC.	SHEET 14 OF 35



REVISIONS

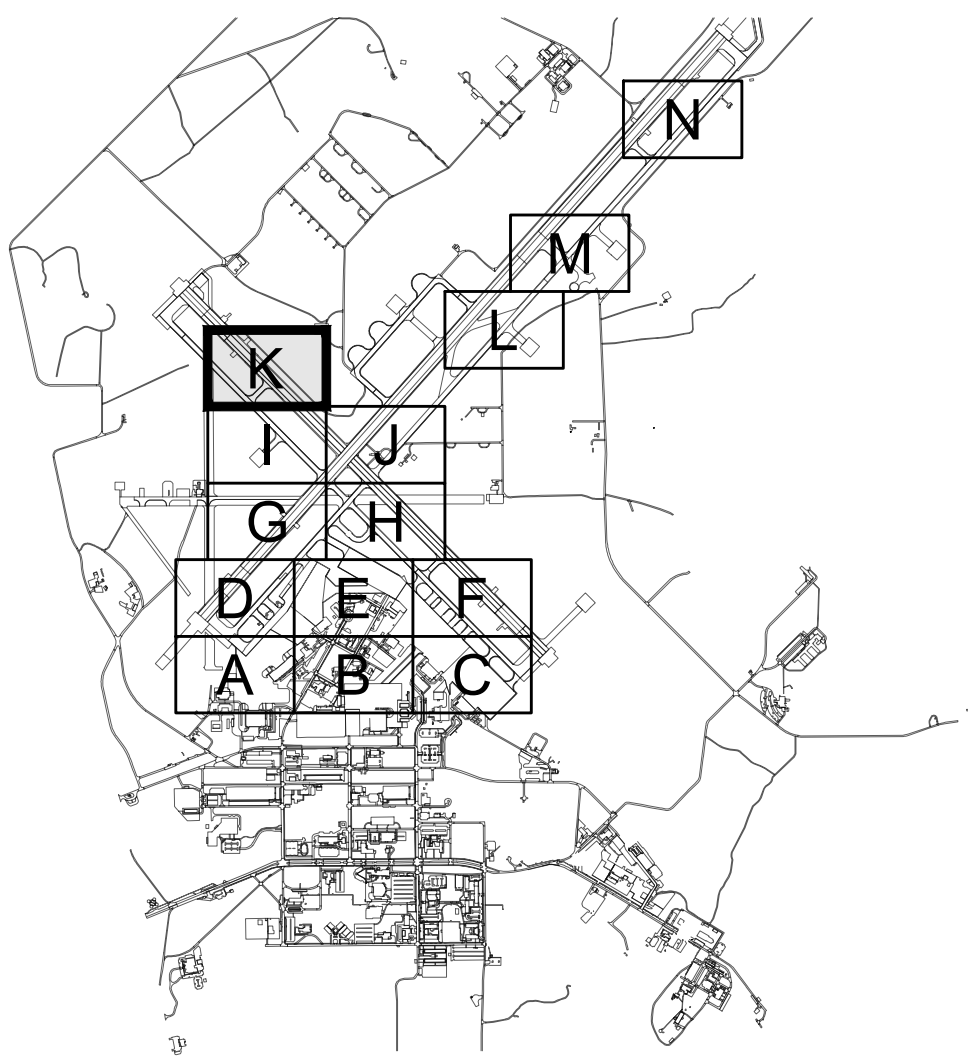

GENERAL NOTES

- SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
- STORM PIPE AND STRUCTURE INFORMATION SHOWN IS BASED ON GIS DATA AND RECORD DRAWINGS PROVIDED BY MCAS BEAUFORT.
- ALL EXISTING STORM PIPES (SP###) AND STRUCTURES SHOWN ON THE VF SHEETS ARE WITHIN PROJECT SCOPE.
- CCTV INSPECTION REPORT "AIRFIELD STORMWATER REPAIRS" BY GEL SOLUTIONS DATED 10/4/2019 CONTAINS CAMERA INSPECTION DATA OF SCOPED STORM DRAIN PIPES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AS-BUILT SURVEY OF ALL THE STORM DRAINAGE (EXISTING, REPAIRED, AND REPLACED) WITHIN THIS PROJECT SCOPE. SURVEY SHALL CAPTURE ALL STORM PIPES AND STRUCTURES. SURVEY SHALL PROPERLY VERIFY THE LOCATION, ELEVATION / DEPTH, RIM, INVERT(S) AND PIPE SIZE(S) AT EACH STORM STRUCTURE.

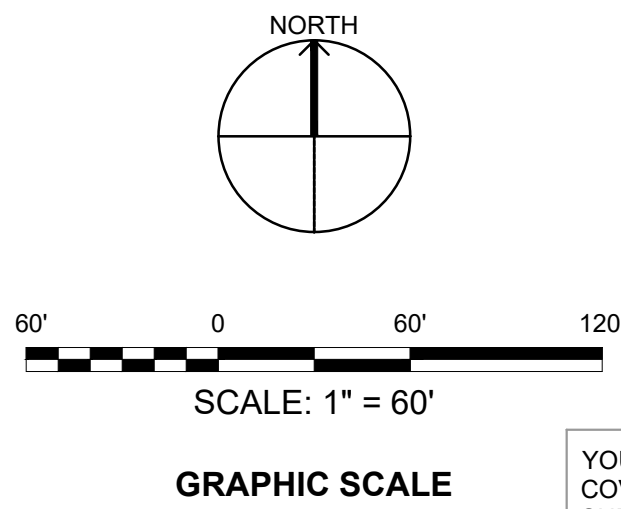
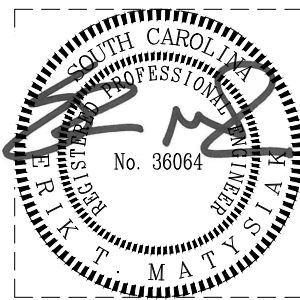


1 EXISTING CONDITIONS PLAN - AREA K

SCALE: 1" = 60'-0"



KEYPLAN

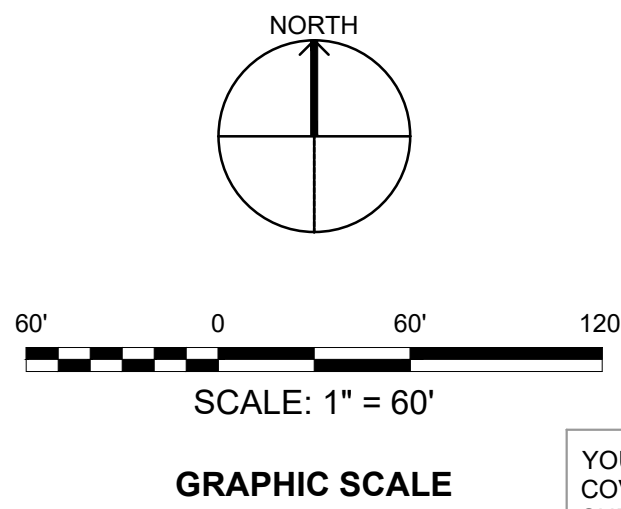


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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27074	<div>CEMS ENGINEERING   ARCHITECTURE</div> <div>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</div>	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	VF112	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	MARINE CORPS AIR STATION	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	EXISTING CONDITIONS PLAN- AREA K	
PUBLIC WORKS OFFICER		SIZE F	CODE IDENT. NO. N A V F A C DRAWING NO.
		HQMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 15 OF 35



1 EXISTING CONDITIONS PLAN - AREA L  
SCALE: 1" = 60'-0"



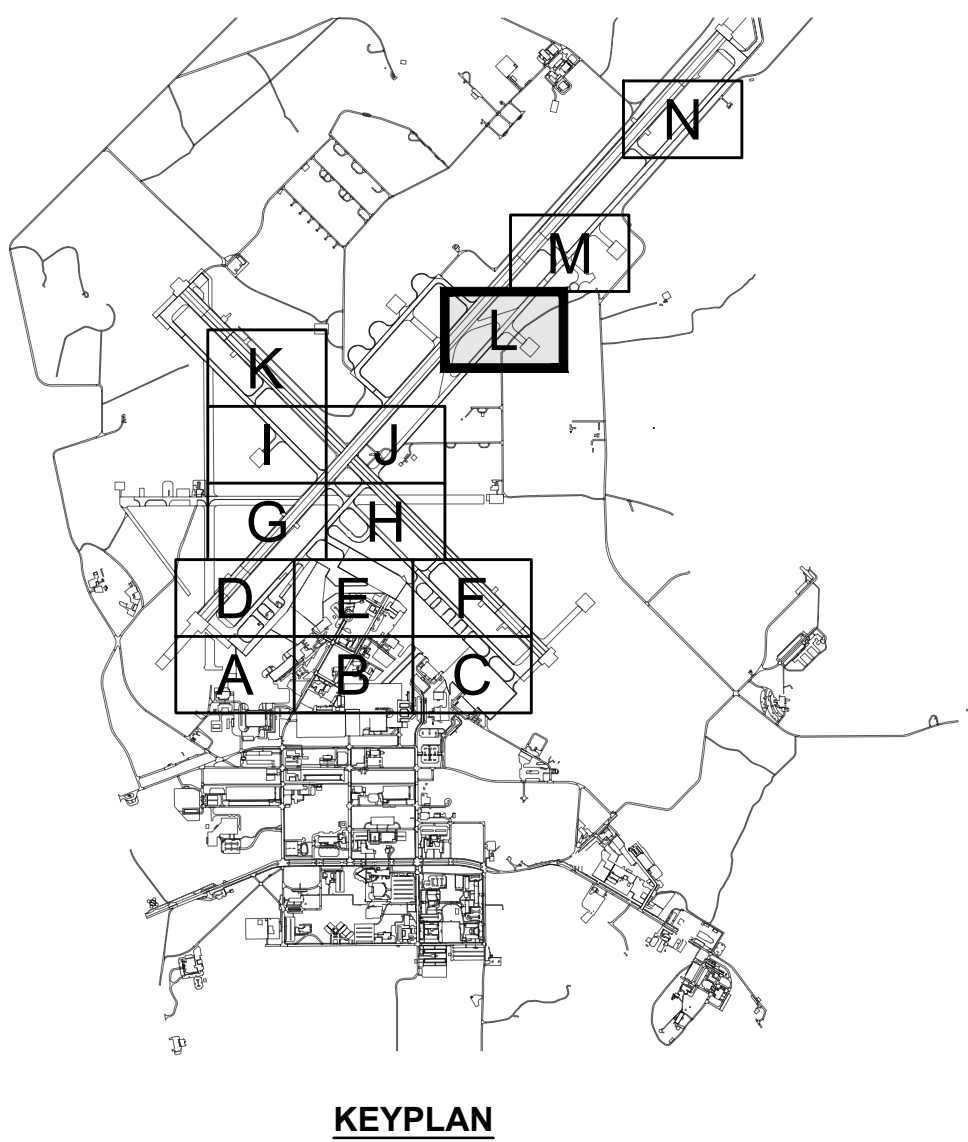
YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

REVISIONS

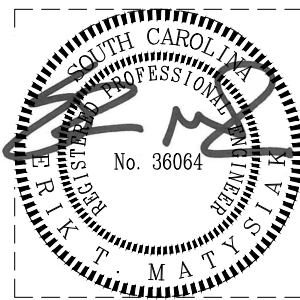
NO.	DESCRIPTION	DATE

GENERAL NOTES

- SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
- STORM PIPE AND STRUCTURE INFORMATION SHOWN IS BASED ON GIS DATA AND RECORD DRAWINGS PROVIDED BY MCAS BEAUFORT.
- ALL EXISTING STORM PIPES (SP###) AND STRUCTURES SHOWN ON THE VF SHEETS ARE WITHIN PROJECT SCOPE.
- CCTV INSPECTION REPORT "AIRFIELD STORMWATER REPAIRS" BY GEL SOLUTIONS DATED 10/4/2019 CONTAINS CAMERA INSPECTION DATA OF SCOPED STORM DRAIN PIPES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AS-BUILT SURVEY OF ALL THE STORM DRAINAGE (EXISTING, REPAIRED, AND REPLACED) WITHIN THIS PROJECT SCOPE. SURVEY SHALL CAPTURE ALL STORM PIPES AND STRUCTURES. SURVEY SHALL PROPERLY VERIFY THE LOCATION, ELEVATION / DEPTH, RIM, INVERT(S) AND PIPE SIZE(S) AT EACH STORM STRUCTURE.



KEYPLAN

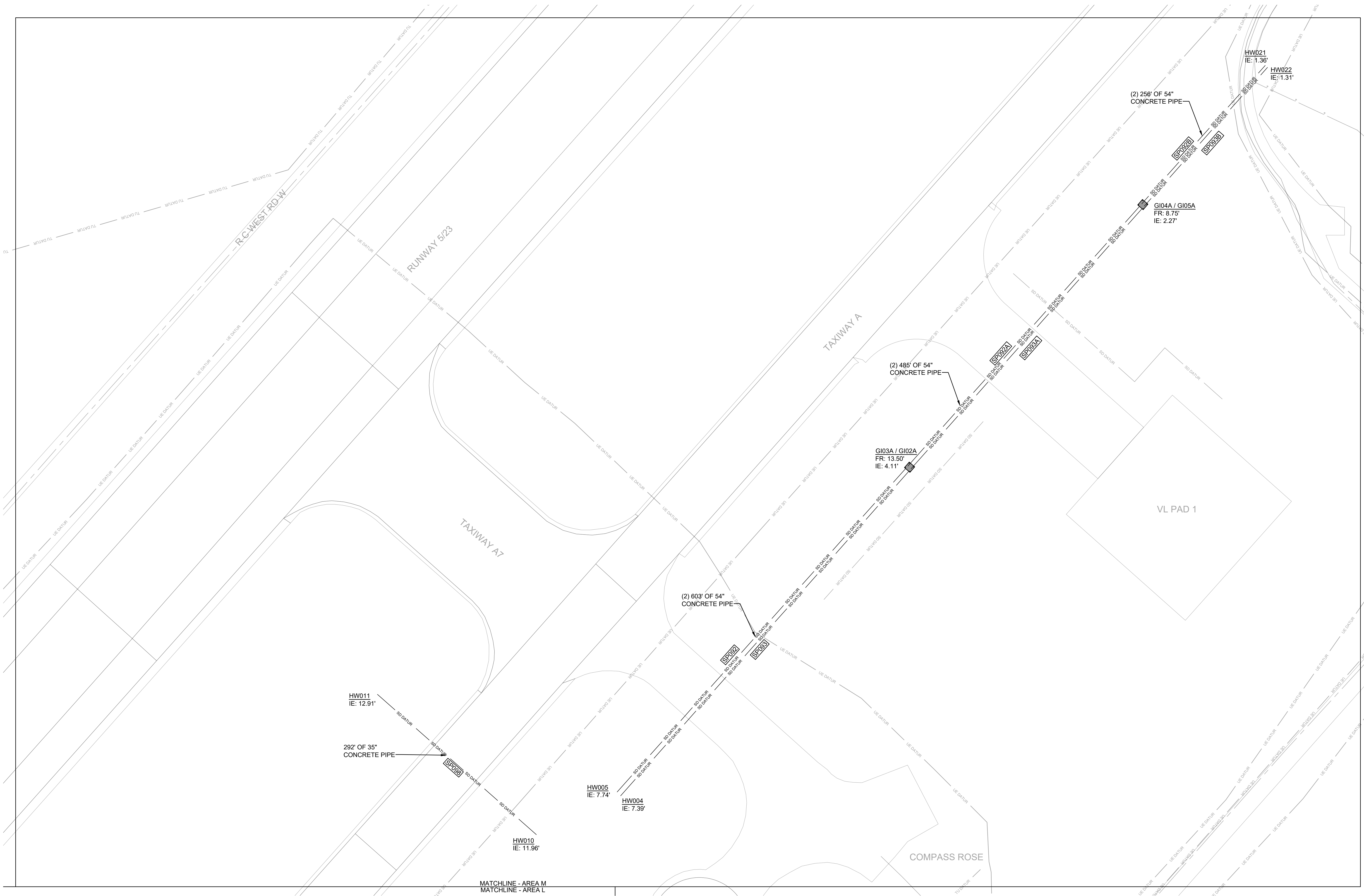


IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY

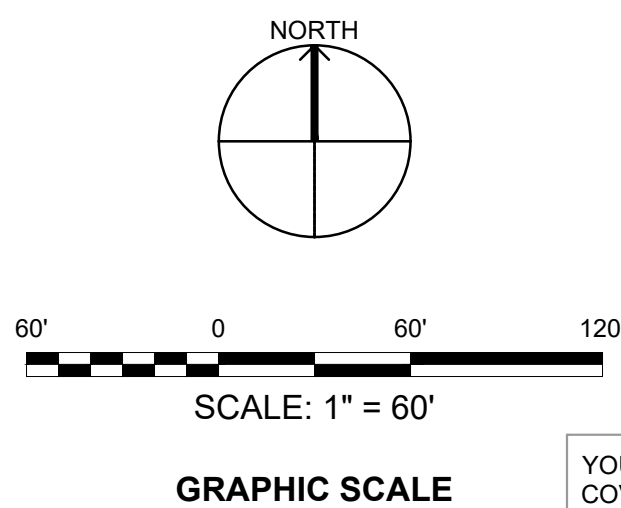
ISSUE DATE: APR 27, 2020

NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27075	CEMS ENGINEERING   ARCHITECTURE INCORPORATING LANDSCAPE ARCHITECTURE	VF113
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK		
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND BEAUFORT, NC MARINE CORPS AIR STATION	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	EXISTING CONDITIONS PLAN- AREA L	
		SIZE F	CODE IDENT. NO.
		NAV F A C DRAWING NO.	
		HOMC PROJ. NO.: BE2004M CONSTR. CONTR. NO.: N40085-18-D-0616	
		SCALE: AS NOTED	MACC.
		T.O. #	SHEET 16 OF 35





1 EXISTING CONDITIONS PLAN - AREA M  
SCALE: 1" = 60'-0"

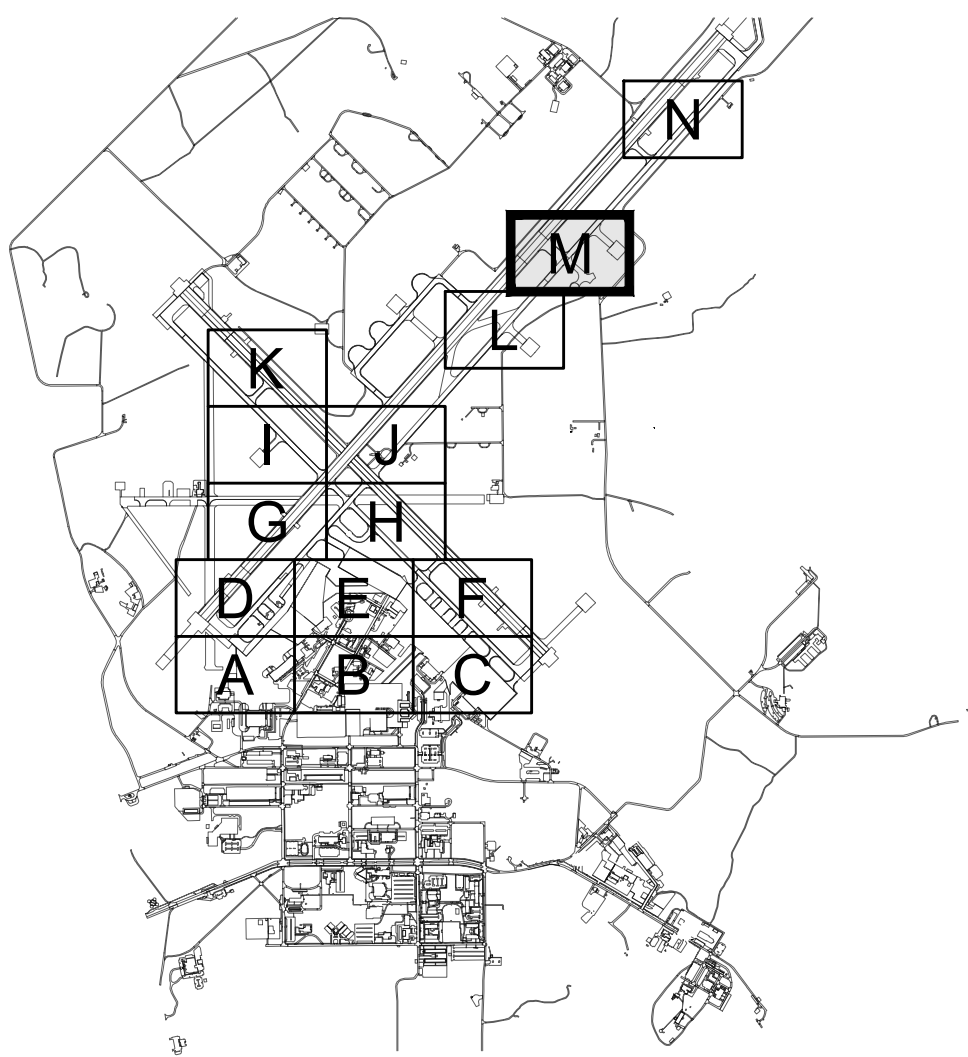


YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

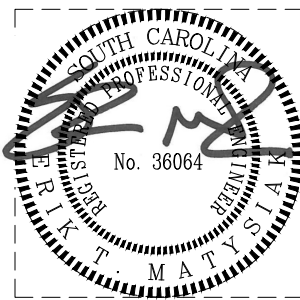
REVISIONS

GENERAL NOTES

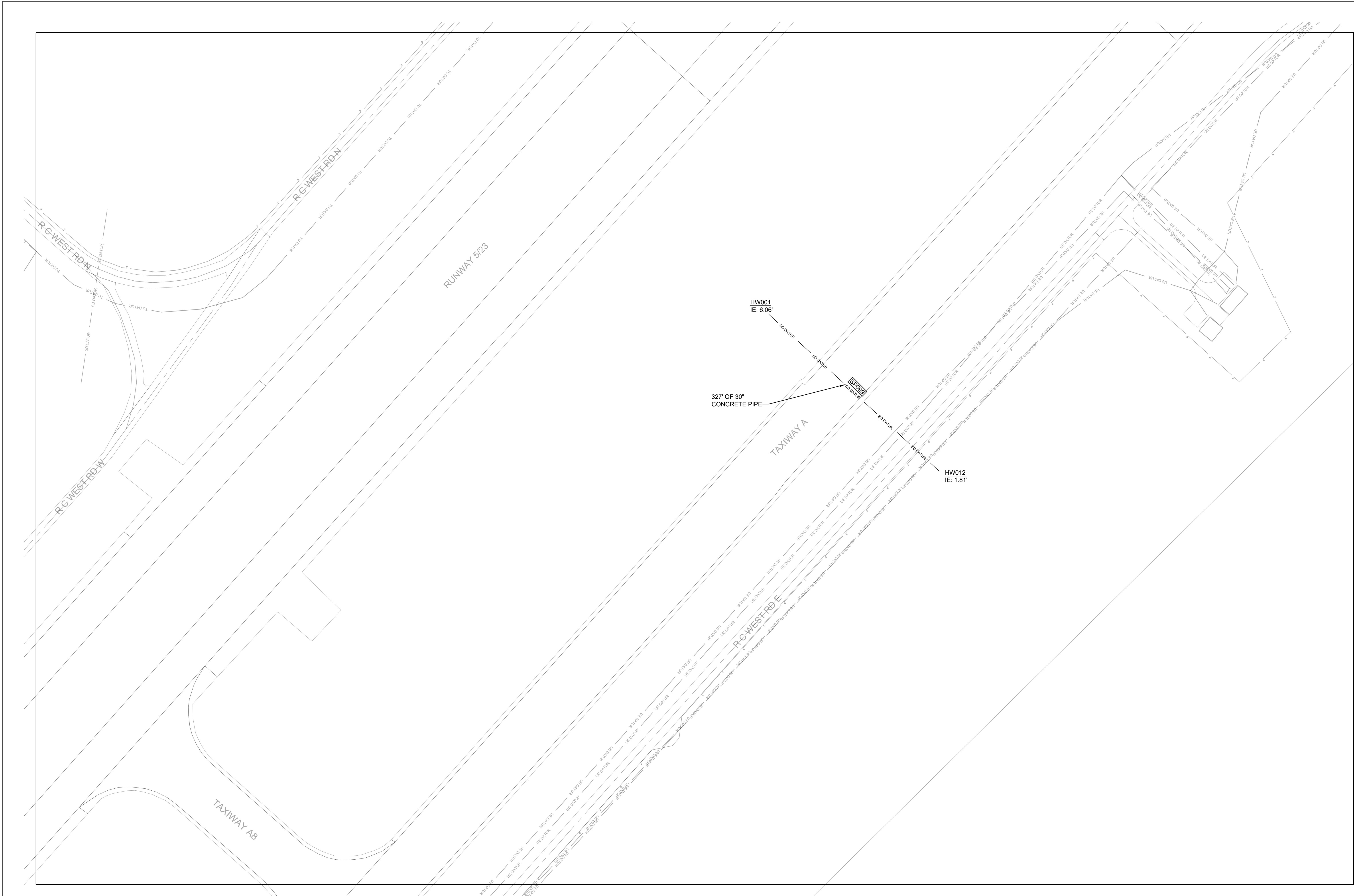
- SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
- STORM PIPE AND STRUCTURE INFORMATION SHOWN IS BASED ON GIS DATA AND RECORD DRAWINGS PROVIDED BY MCAS BEAUFORT.
- ALL EXISTING STORM PIPES (SP###) AND STRUCTURES SHOWN ON THE VF SHEETS ARE WITHIN PROJECT SCOPE.
- CCTV INSPECTION REPORT "AIRFIELD STORMWATER REPAIRS" BY GEL SOLUTIONS DATED 10/4/2019 CONTAINS CAMERA INSPECTION DATA OF SCOPED STORM DRAIN PIPES.
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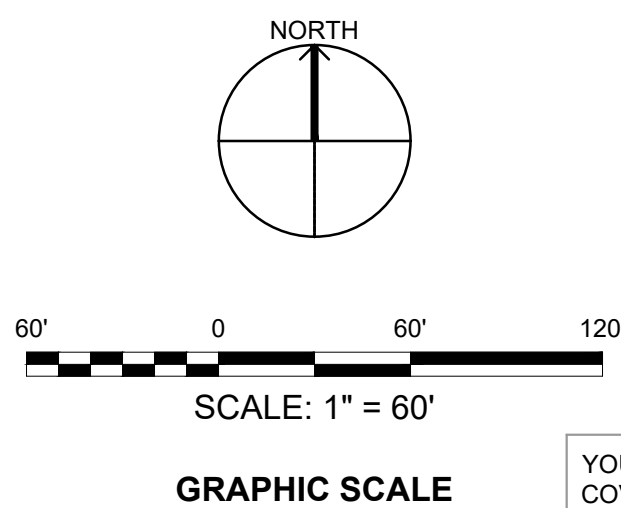
KEYPLAN



IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY		ISSUE DATE: APR 27, 2020	
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27076	<b>CEMS</b> ENGINEERING   ARCHITECTURE REPAIRWORK, LLC	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND <b>MARINE CORPS AIR STATION</b>	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	EXISTING CONDITIONS PLAN- AREA M	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	SIZE F	CODE IDENT. NO. NAVFAC DRAWING NO.
		HOMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 17 OF 35



1 EXISTING CONDITIONS PLAN - AREA N  
SCALE: 1" = 60'-0"



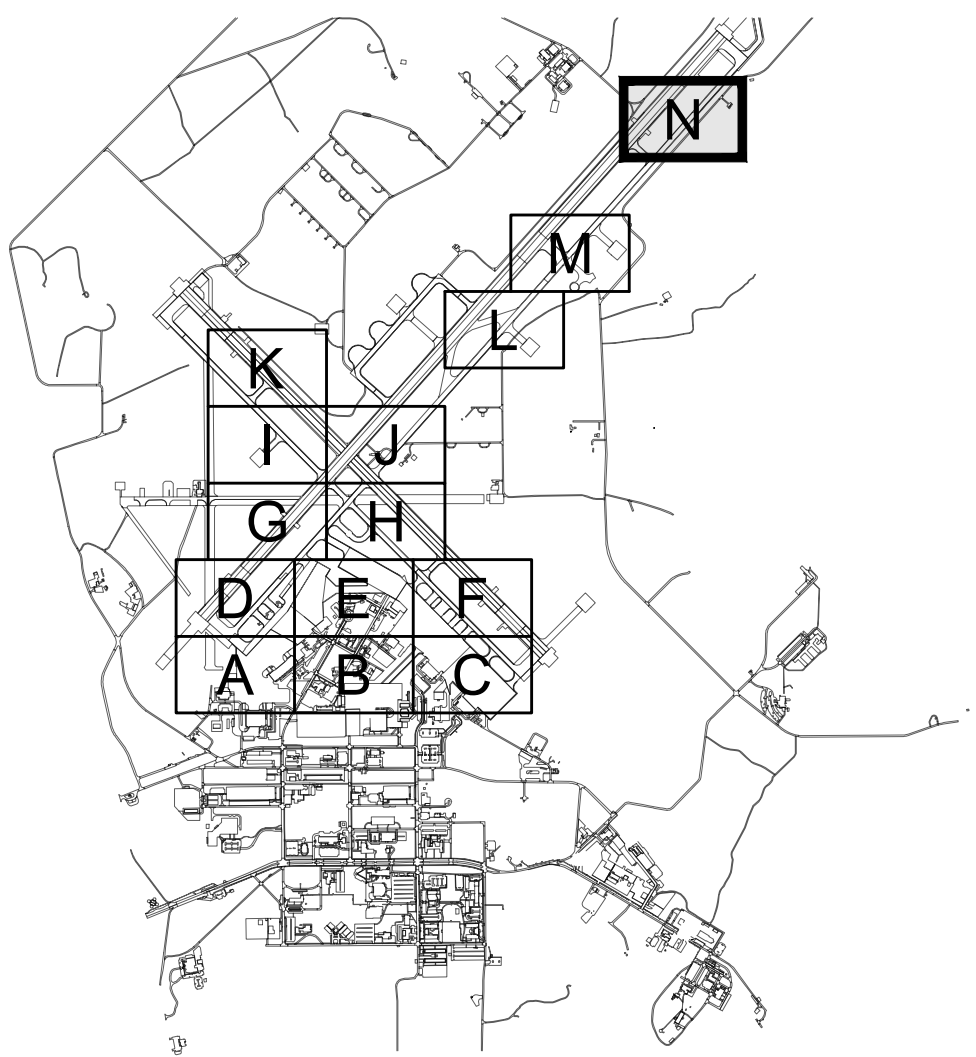
YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

REVISIONS

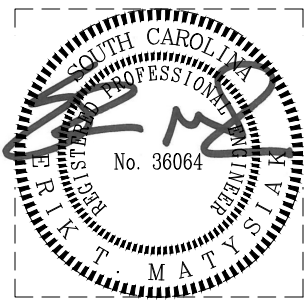
NO.	DESCRIPTION	DATE

GENERAL NOTES

- SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
- STORM PIPE AND STRUCTURE INFORMATION SHOWN IS BASED ON GIS DATA AND RECORD DRAWINGS PROVIDED BY MCAS BEAUFORT.
- ALL EXISTING STORM PIPES (SP###) AND STRUCTURES SHOWN ON THE VF SHEETS ARE WITHIN PROJECT SCOPE.
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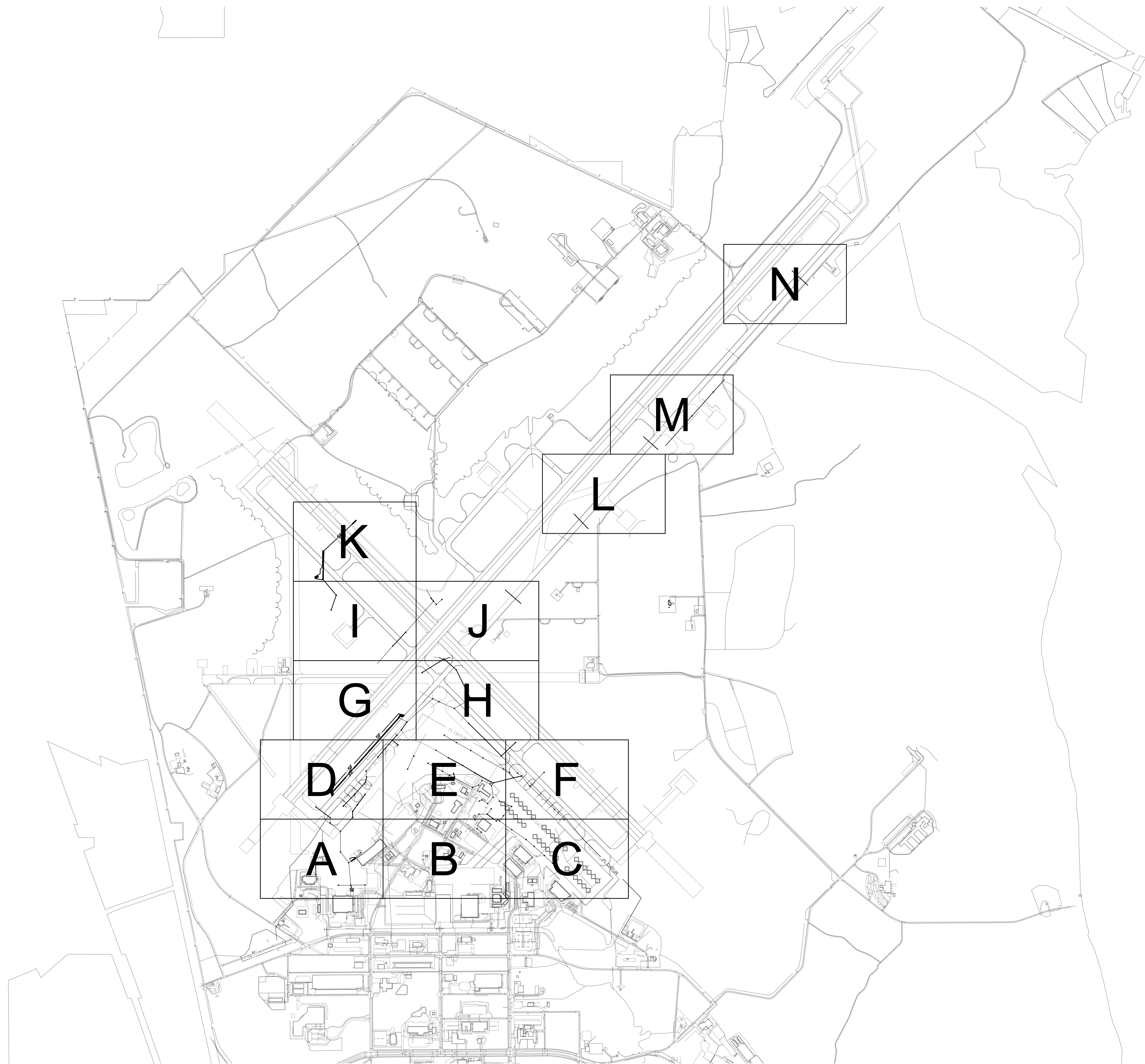


KEYPLAN

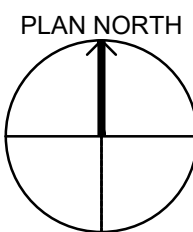


IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY		ISSUE DATE: APR 27, 2020	
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27077	VF115	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	EXISTING CONDITIONS PLAN- AREA N	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	SIZE F	CODE IDENT. NO. N A V F A C DRAWING NO.
		HOMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 18 OF 35





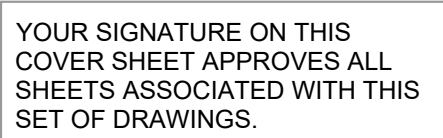
1 OVERALL SITE IMPROVEMENTS PLAN  
SCALE: NOT TO SCALE




YOUR SIGNATURE ON THIS  
COVER SHEET APPROVES ALL  
SHEETS ASSOCIATED WITH THIS  
SET OF DRAWINGS.

REVISIONS		

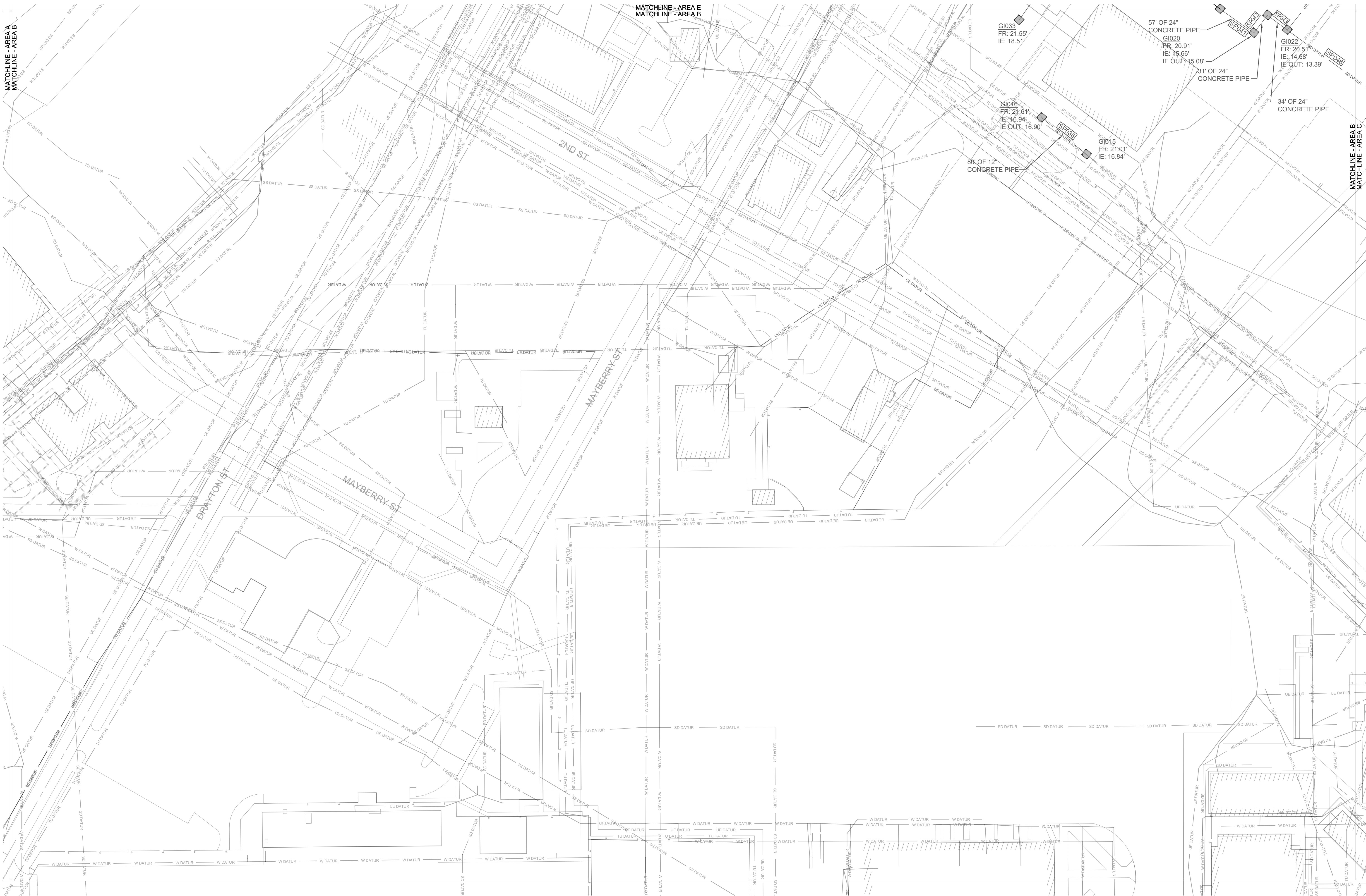
IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY		ISSUE DATE: APR 27, 2020	
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27078	<div>CEMS ENGINEERING   ARCHITECTURE</div> <div>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</div>	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	OVERALL SITE IMPROVEMENTS PLAN	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	SIZE F	CODE IDENT. NO.
	PUBLIC WORKS OFFICER	HQMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 19 OF 35



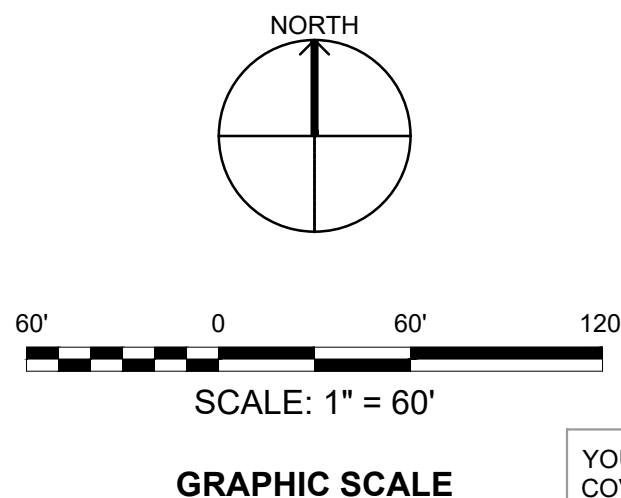
The map shows a network of roads and a railway line. The sampling points are labeled A through L. Points A, B, and C are located along a main road. Points D, E, and F are located along a side road. Points G, H, and I are located along a road that runs parallel to the railway line. Points J, K, and L are located along a road that runs parallel to the railway line. Points M and N are located along a road that runs parallel to the railway line. The railway line is shown as a dashed line with cross-ticks. The map includes a north arrow and a scale bar.

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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE		P.W. DWG. NO. 27079	
SAFETY DEPARTMENT SATISFACTORY TO DATE		 C1102	
FIRE DEPARTMENT SATISFACTORY TO DATE		DEPARTMENT OF THE NAVY <b>MARINE CORPS AIR STATION</b> BEAUFORT, S.C.	
PHYSICAL SECURITY SATISFACTORY TO DATE		AIRFIELD STORMWATER REPAIRS (BE2004M)  SITE IMPROVEMENTS PLAN - AREA A	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE		SIZE <b>F</b>	
APPROVED DATE		CODE IDENT. NO. NA V F A C DRAWING NO.	
PUBLIC WORKS OFFICER		HQMC PROJ. NO.: BE2004M CONSTR. CONTR. NO.: N40085-18-D-0616	
		SCALE: AS NOTED MACC.	
		T.O. # SHEET 20 OF 35	





**1 SITE IMPROVEMENTS PLAN - AREA B**  
SCALE: 1" = 60'-0"

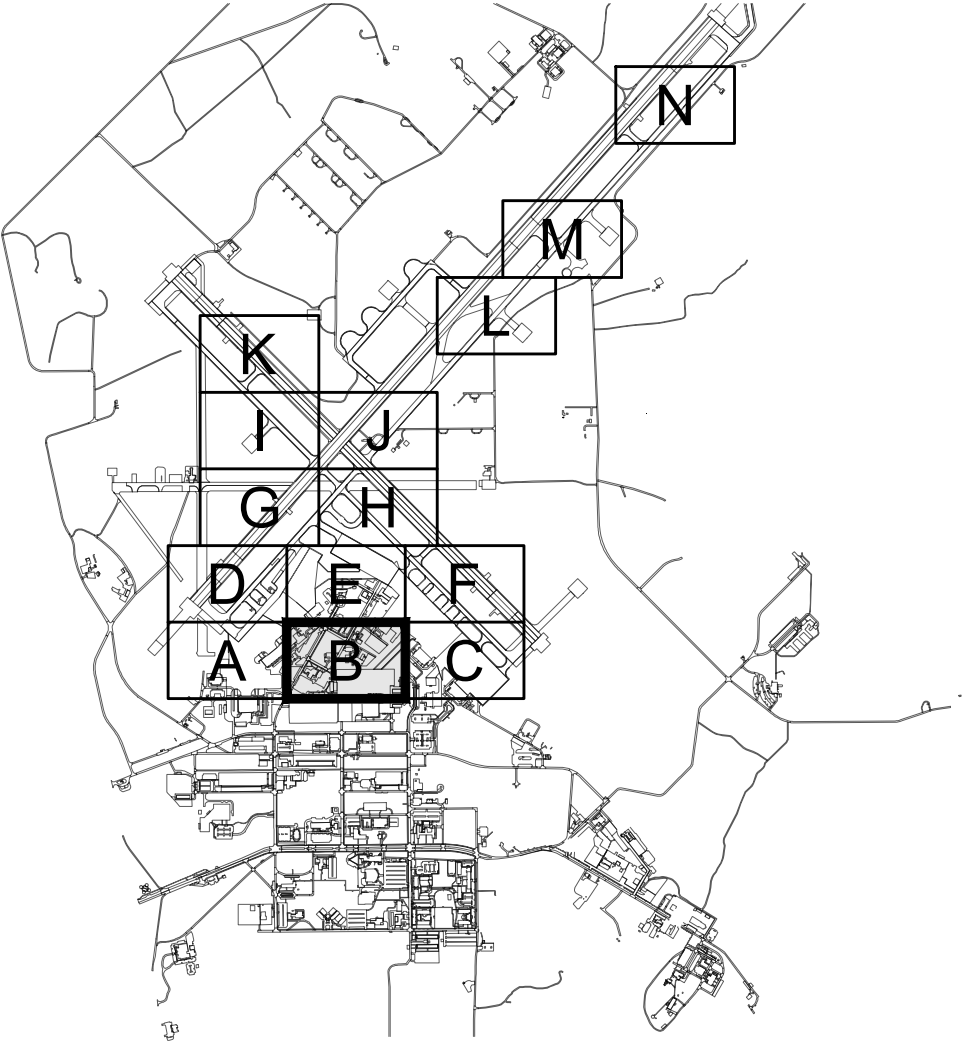


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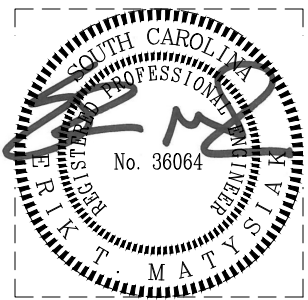
REVISIONS

NEW WORK NOTES

- SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AS-BUILT SURVEY OF ALL THE STORM DRAINAGE (EXISTING, REPAIRED, AND REPLACED) WITHIN THIS PROJECT SCOPE. SURVEY SHALL CAPTURE ALL STORM PIPES AND STRUCTURES. SURVEY SHALL PROPERLY VERIFY THE LOCATION, ELEVATION / DEPTH, RIM, INVERT(S) AND PIPE SIZE(S) AT EACH STORM STRUCTURE.
- NO CLEANING, REPAIR OR REPLACEMENT WORK IN THIS AREA.**



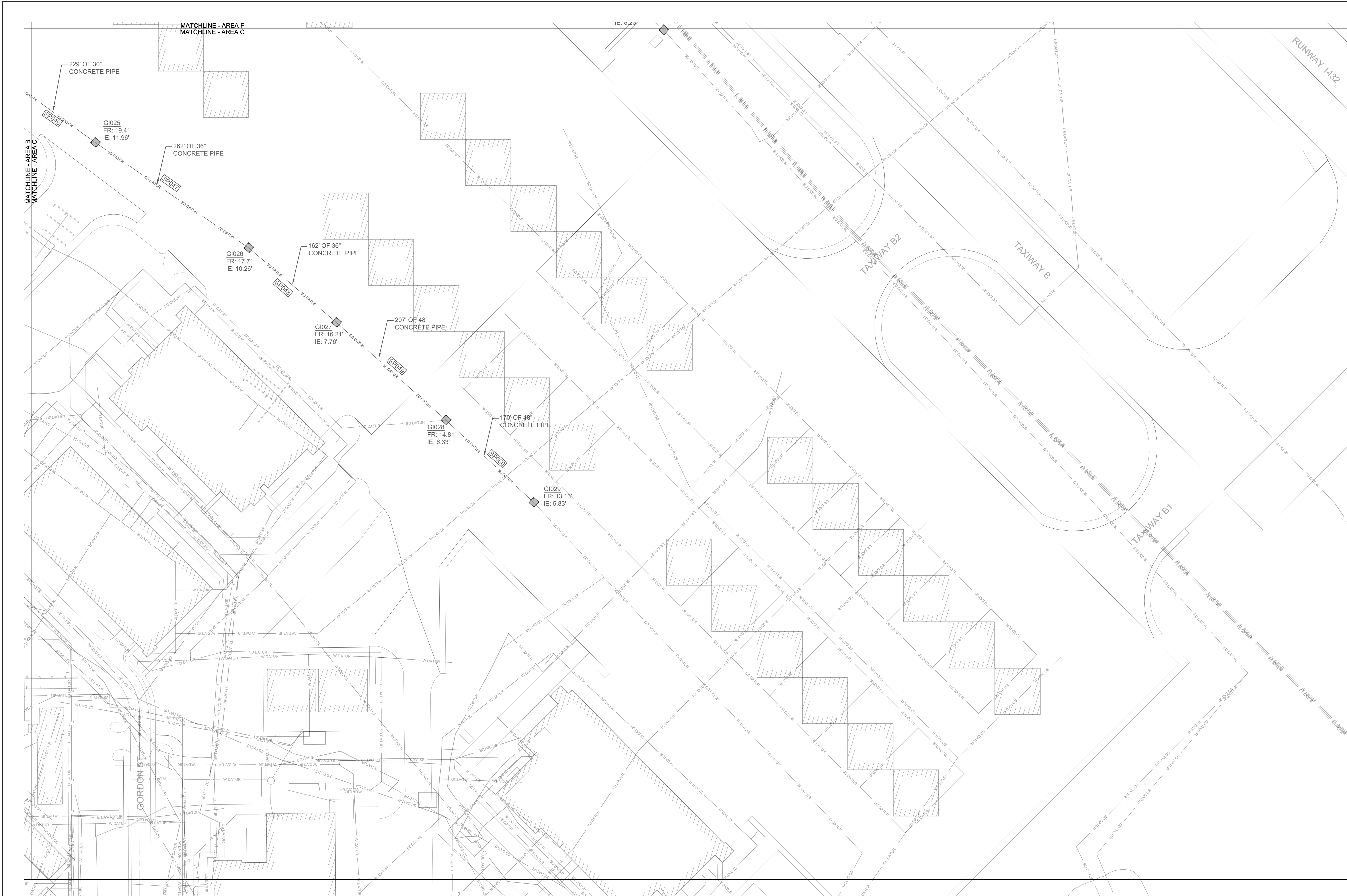
KEYPLAN



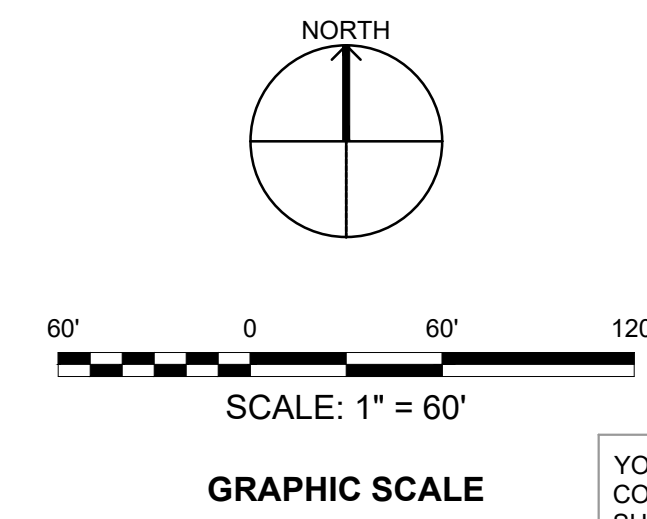
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ISSUE DATE: APR 27, 2020

NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE		P.W. DWG. NO. 27080		<div>CEMS ENGINEERING   ARCHITECTURE <small>CONSULTING ENGINEERS</small></div>		C1103	
SAFETY DEPARTMENT SATISFACTORY TO DATE		DRAWN BY J. CARROLL/E. MATYSIAK		DEPARTMENT OF THE NAVY MARINE CORPS AIR STATION BEAUFORT, S.C.		NAVAL FACILITIES ENGINEERING COMMAND	
FIRE DEPARTMENT SATISFACTORY TO DATE		CHECKED BY D. FARLEY/C. MOORING		AIRFIELD STORMWATER REPAIRS (BE2004M)  SITE IMPROVEMENTS PLAN - AREA B			
PHYSICAL SECURITY SATISFACTORY TO DATE		SUPERVISOR S. THOMAS					
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE		APPROVED	DATE	SIZE F	CODE IDENT. NO.	NAV F A C DRAWING NO.	
				HOMC PROJ. NO.: BE2004M		CONSTR. CONTR. NO.: N40085-18-D-0616	
		PUBLIC WORKS OFFICER		SCALE: AS NOTED	MACC.	T.O. #	SHEET 21 OF 35



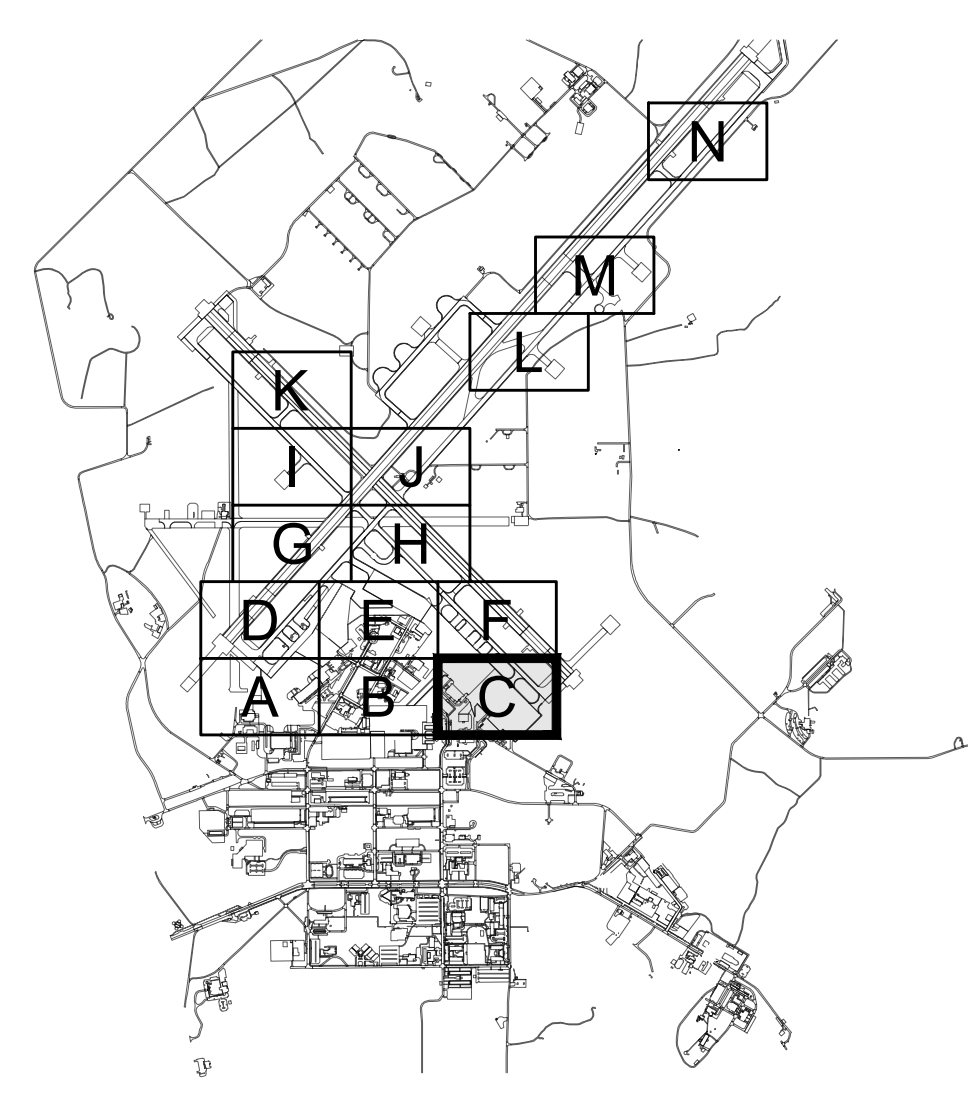


1 SITE IMPROVEMENTS PLAN - AREA C  
SCALE: 1" = 60'-0"

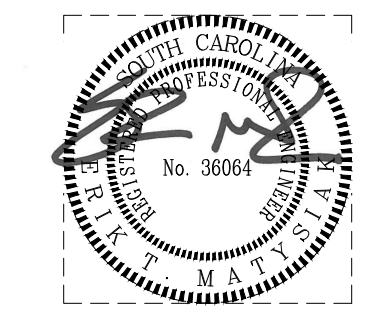


YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

REVISIONS		
NEW WORK NOTES		
1. SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.		
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AS-BUILT SURVEY OF ALL THE STORM DRAINAGE (EXISTING, REPAIRED, AND REPLACED) WITHIN THIS PROJECT SCOPE. SURVEY SHALL CAPTURE ALL STORM PIPES AND STRUCTURES. SURVEY SHALL PROPERLY VERIFY THE LOCATION, ELEVATION / DEPTH, RIM, INVERT(S) AND PIPE SIZE(S) AT EACH STORM STRUCTURE.		
3. NO CLEANING, REPAIR OR REPLACEMENT WORK IN THIS AREA.		

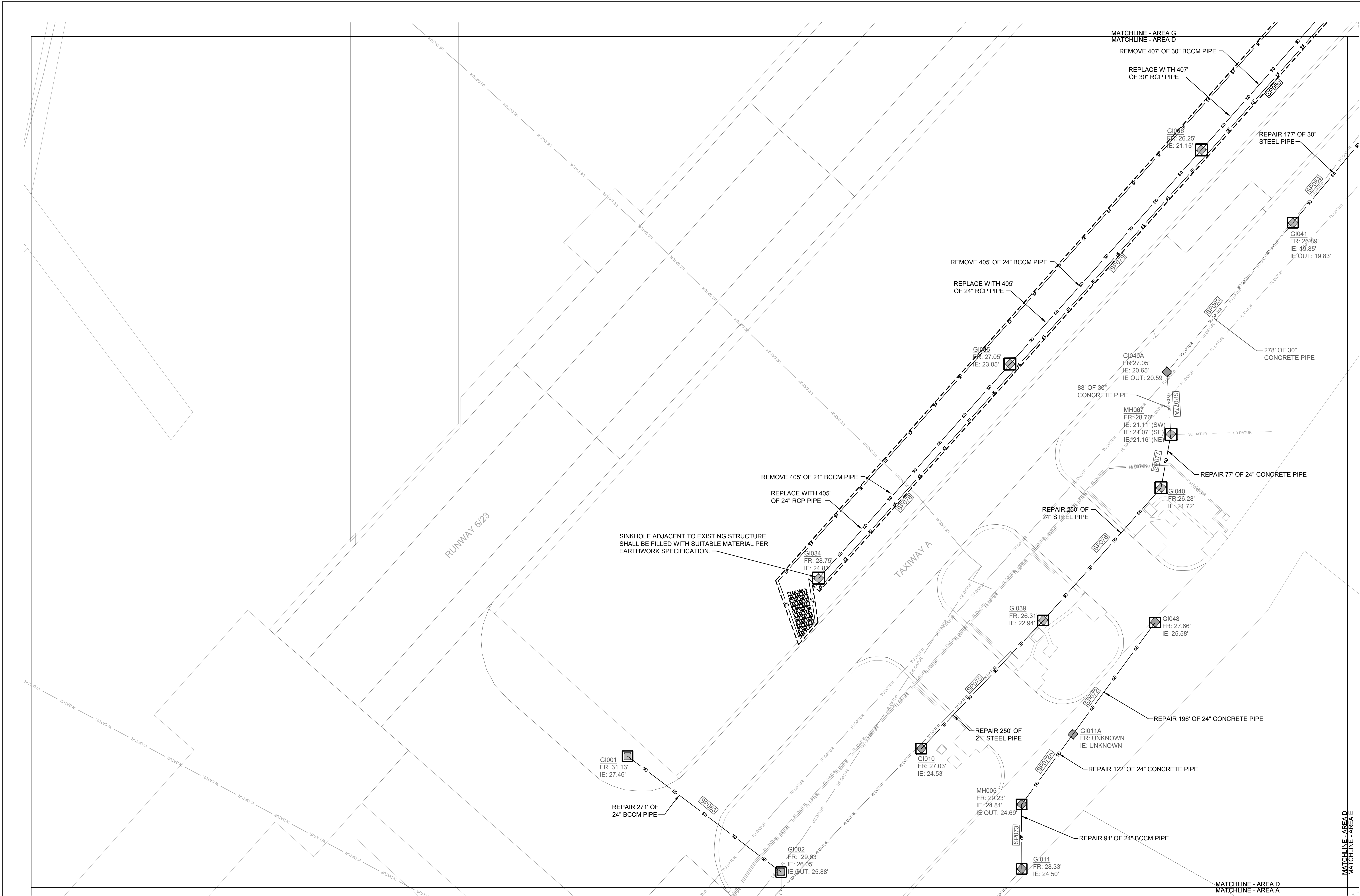


KEYPLAN

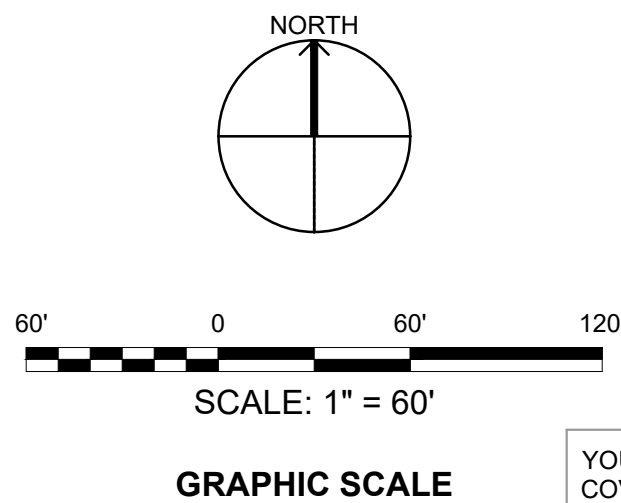


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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27081	C1104	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SITE IMPROVEMENTS PLAN - AREA C	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	SIZE F	CODE IDENT. NO. NAVFAC DRAWING NO.
		HQMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 22 OF 35





1 SITE IMPROVEMENTS PLAN - AREA D  
SCALE: 1" = 60'-0"



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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27082	CIMS ENGINEERING   ARCHITECTURE DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SITE IMPROVEMENTS PLAN - AREA D	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	SIZE F	CODE IDENT. NO. N A V F A C DRAWING NO.
		HOMC PROJ. NO.: BE2004M CONSTR. CONTR. NO.: N40085-18-D-0616	
		SCALE: AS NOTED	MACC. T.O. # SHEET 23 OF 35

- REVISIONS
- NEW WORK NOTES
1.

SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AS-BUILT SURVEY OF ALL THE STORM DRAINAGE (EXISTING, REPAIRED, AND REPLACED) WITHIN THIS PROJECT SCOPE. SURVEY SHALL CAPTURE ALL STORM PIPES AND STRUCTURES. SURVEY SHALL PROPERLY VERIFY THE LOCATION, ELEVATION / DEPTH, RIM, INVERT(S) AND PIPE SIZE(S) AT EACH STORM STRUCTURE.
3.

STORM PIPE REPLACEMENT IN UNPAVED AREA SHALL BE OPEN CUT TRENCH OPERATION PROVIDED IN ACCORDANCE WITH SPECIFICATION 33 40 00. PROVIDE INLET PROTECTION, SILT FENCE AND CONSTRUCTION FENCING AS DETAILED. BACKFILL AND COMPACT TRENCHES WITH SUITABLE SOIL AND STABILIZE PER HYDROSEED SCHEDULE (SEE C-501).
4.

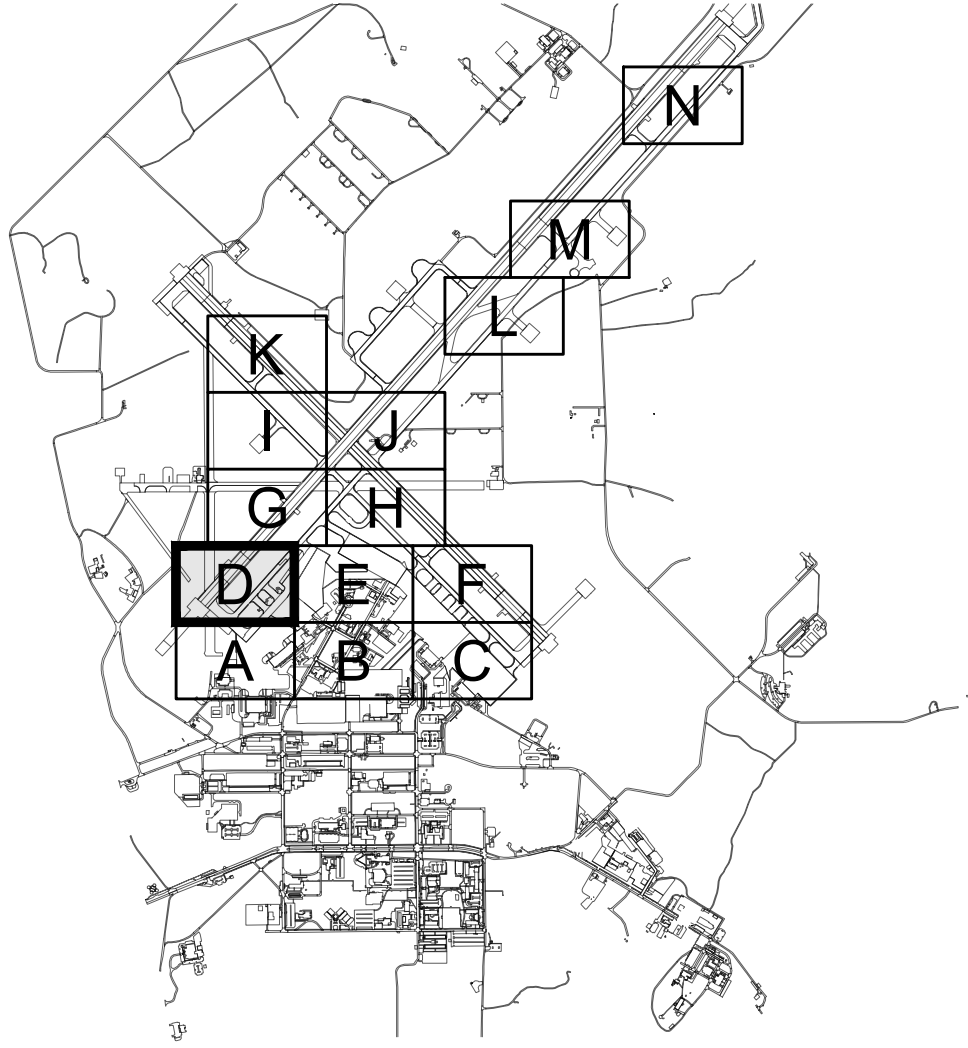
STORM PIPE REPAIR IN PAVED AREA SHALL BE COORDINATED IN ADVANCE OF TRENCHLESS EQUIPMENT STAGING - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH GOVERNMENT. ENSURE THAT ALL PROPER SAFETY MEASURES ARE FOLLOWED DURING WORK, INCLUDING PROPER PLACEMENT AND LOCATION OF FENCING AND LOW-PROFILE BARRICADES.
5.

STORM PIPE REPAIR METHOD: TRENCHLESS CURED-IN-PLACE (CIPP) OPERATION IN ACCORDANCE WITH SPECIFICATION SECTION 33 01 30.72.
6.

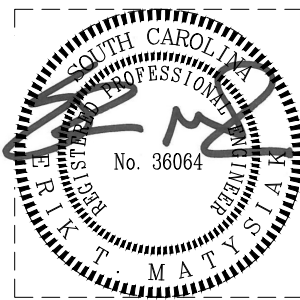
PERFORM STORM DRAIN CLEANING PRIOR TO REPAIR IN ACCORDANCE WITH DRAWING C-001 NOTES. PROVIDE TEMPORARY BYPASS PUMPING (IF NECESSARY) DURING REPAIR.
7.

UPON COMPLETION OF EXISTING STORM DRAIN PIPE REPAIR AND/OR NEW PLACEMENT, CONTRACTOR SHALL PERFORM POST-TV INSPECTION) PER REQUIREMENTS OF SPECIFICATION SECTION 33 01 30.16.
8.

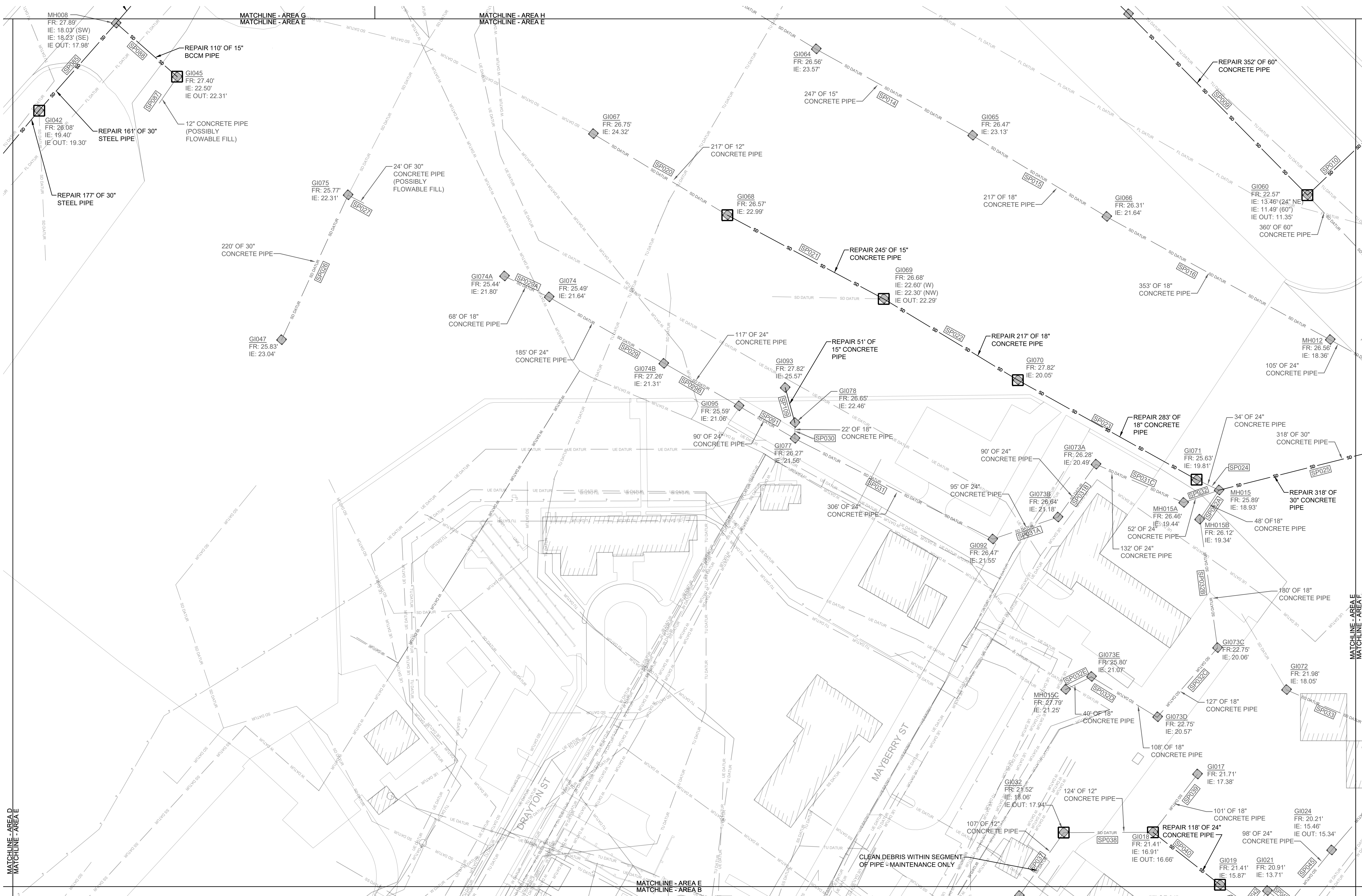
SILT FENCING SHALL BE MAINTAINED IN PLACE AND IN GOOD CONDITION UNTIL GROUND COVER IS ESTABLISHED. SEDIMENT CAUSED BY CHANGED SOIL AND SURFACE CONDITIONS SHALL BE CONTAINED WITHIN THE DISTURBANCE LIMITS SHOWN - CONTRACTOR SHALL ENSURE NO VEHICLE TRACKING ONTO SURROUNDING PAVEMENT. WASH WHEELS AND SWEEP AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING DISTURBED AREAS.



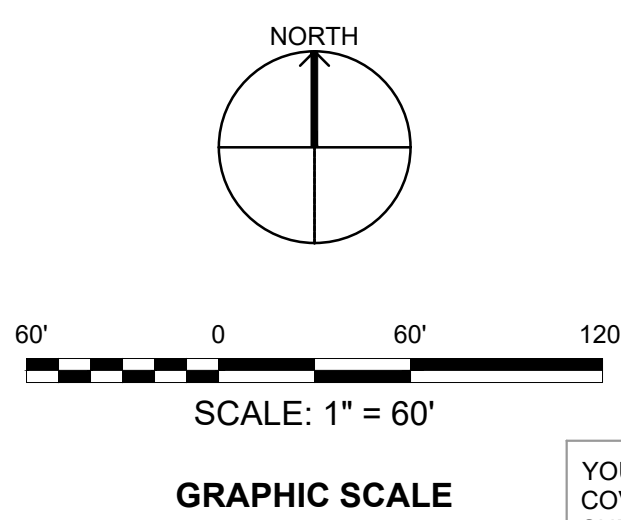
KEYPLAN





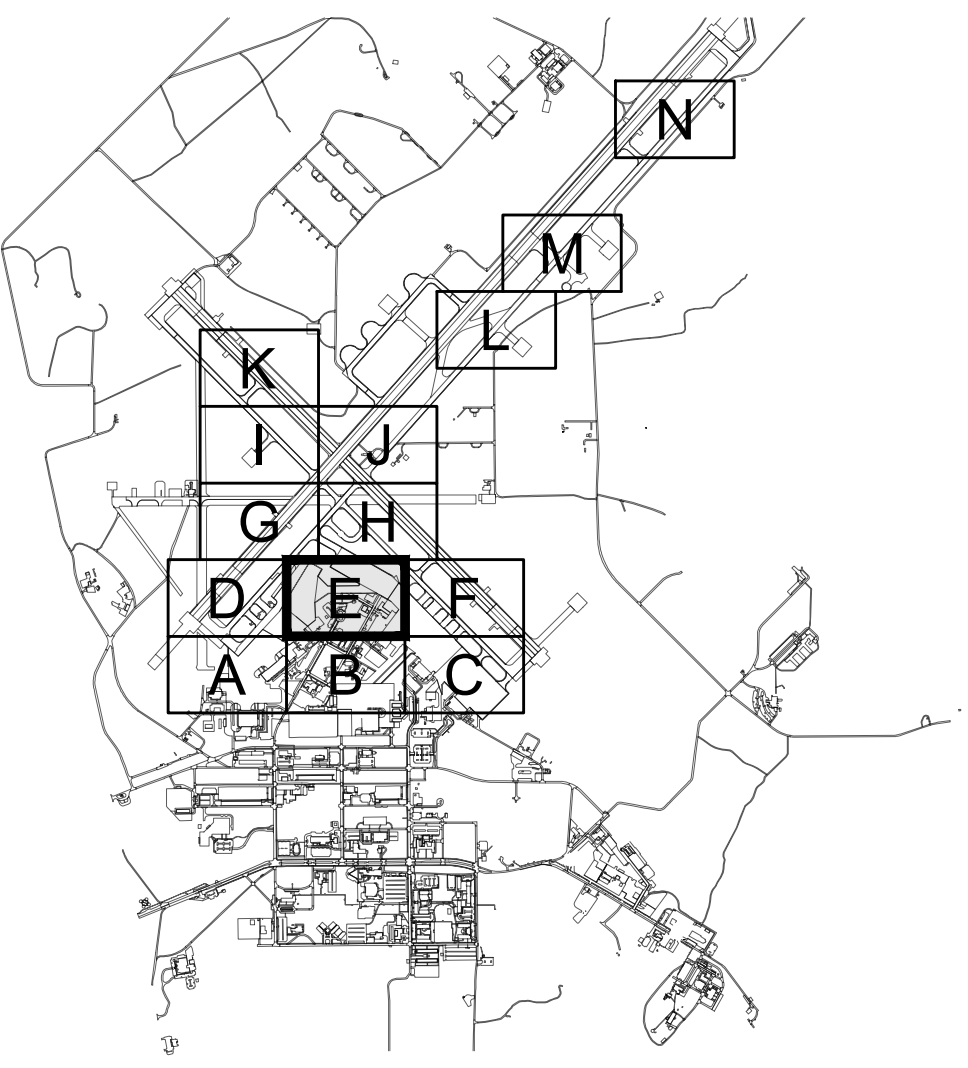


1 SITE IMPROVEMENTS PLAN - AREA E  
SCALE: 1" = 60'-0"

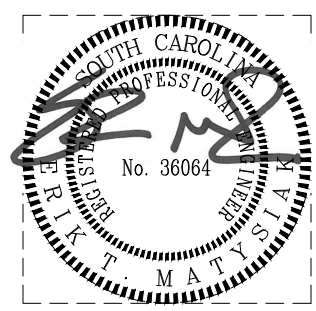


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- REVISIONS
- | NO. | DESCRIPTION | DATE |
|-----|-------------|------|
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |
- NEW WORK NOTES
- SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN AS-BUILT SURVEY OF ALL THE STORM DRAINAGE (EXISTING, REPAIRED, AND REPLACED) WITHIN THIS PROJECT SCOPE. SURVEY SHALL CAPTURE ALL STORM PIPES AND STRUCTURES. SURVEY SHALL PROPERLY VERIFY THE LOCATION, ELEVATION / DEPTH, RIM, INVERT(S) AND PIPE SIZE(S) AT EACH STORM STRUCTURE.
  - STORM PIPE REPLACEMENT IN UNPAVED AREA SHALL BE OPEN CUT TRENCH OPERATION PROVIDED IN ACCORDANCE WITH SPECIFICATION 33 40 00. PROVIDE INLET PROTECTION, SILT FENCE AND CONSTRUCTION FENCING AS DETAILED. BACKFILL AND COMPACT TRENCHES WITH SUITABLE SOIL AND STABILIZE PER HYDROSEED SCHEDULE (SEE C-501).
  - STORM PIPE REPAIR IN PAVED AREA SHALL BE COORDINATED IN ADVANCE OF TRENCHLESS EQUIPMENT STAGING - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH GOVERNMENT. ENSURE THAT ALL PROPER SAFETY MEASURES ARE FOLLOWED DURING WORK, INCLUDING PROPER PLACEMENT AND LOCATION OF FENCING AND LOW-PROFILE BARRICADES.
  - STORM PIPE REPAIR METHOD: TRENCHLESS CURED-IN-PLACE (CIPP) OPERATION IN ACCORDANCE WITH SPECIFICATION SECTION 33 01 30.72.
  - PERFORM STORM DRAIN CLEANING PRIOR TO REPAIR IN ACCORDANCE WITH DRAWING C-001 NOTES. PROVIDE TEMPORARY BYPASS PUMPING (IF NECESSARY) DURING REPAIR.
  - UPON COMPLETION OF EXISTING STORM DRAIN PIPE REPAIR AND/OR NEW PLACEMENT, CONTRACTOR SHALL PERFORM POST-TV INSPECTION) PER REQUIREMENTS OF SPECIFICATION SECTION 33 01 30.16.
  - SILT FENCING SHALL BE MAINTAINED IN PLACE AND IN GOOD CONDITION UNTIL GROUND COVER IS ESTABLISHED. SEDIMENT CAUSED BY CHANGED SOIL AND SURFACE CONDITIONS SHALL BE CONTAINED WITHIN THE DISTURBANCE LIMITS SHOWN - CONTRACTOR SHALL ENSURE NO VEHICLE TRACKING ONTO SURROUNDING PAVEMENT. WASH WHEELS AND SWEEP AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING DISTURBED AREAS.

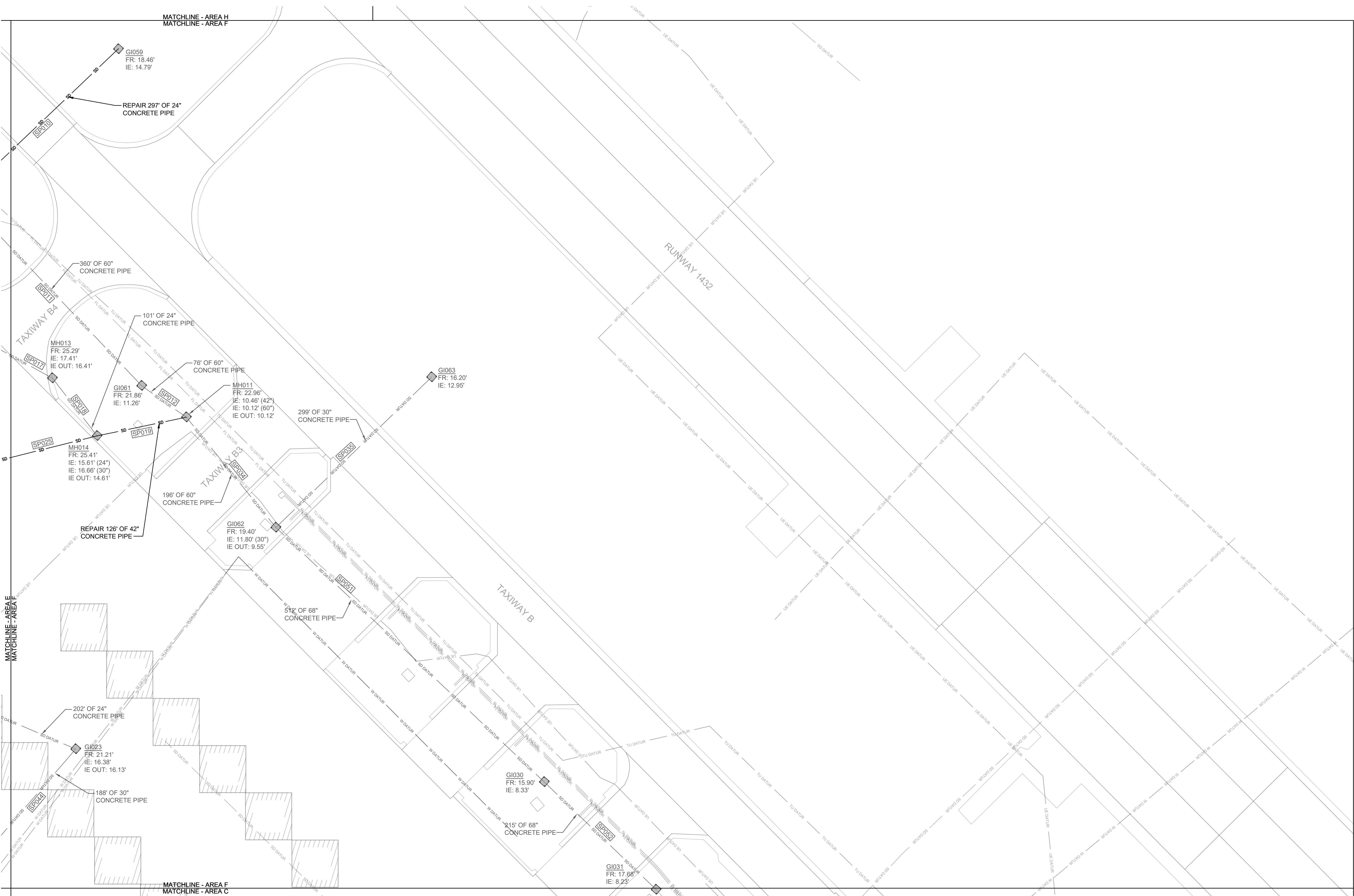


KEYPLAN

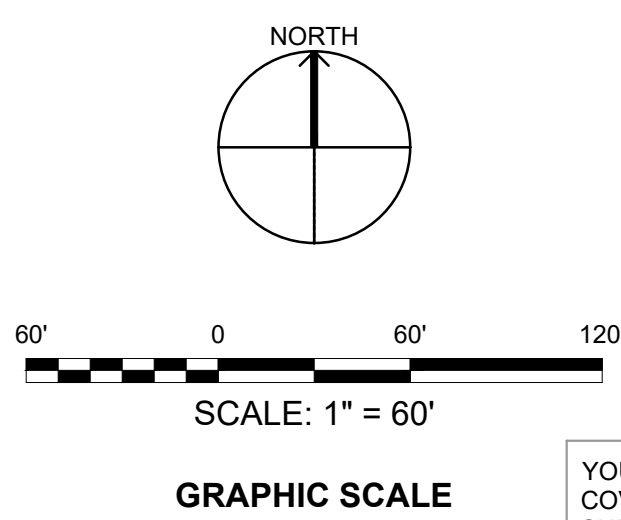


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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27083	C1106	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SITE IMPROVEMENTS PLAN - AREA E	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	SIZE F	CODE IDENT. NO.
	PUBLIC WORKS OFFICER	HOMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 24 OF 35





1 SITE IMPROVEMENTS PLAN - AREA F  
SCALE: 1" = 60'-0"



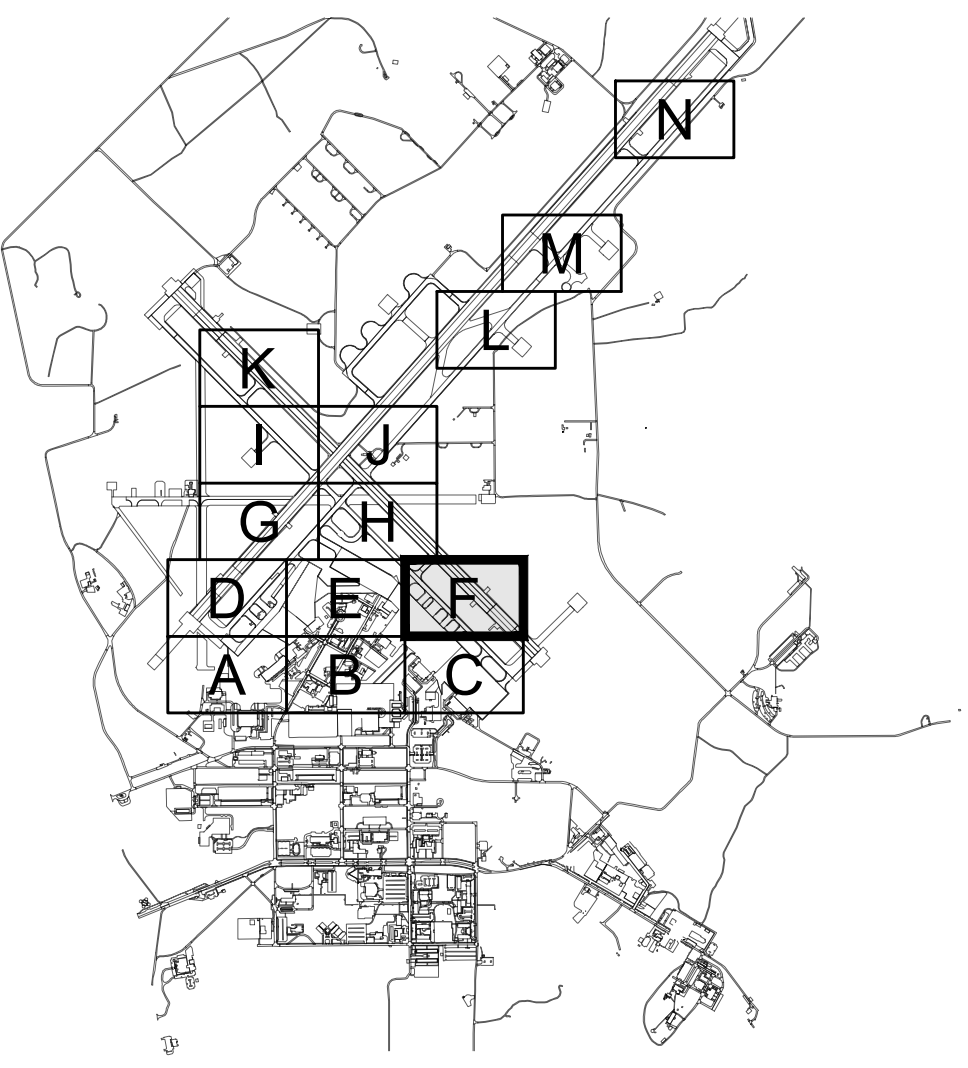
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REVISIONS

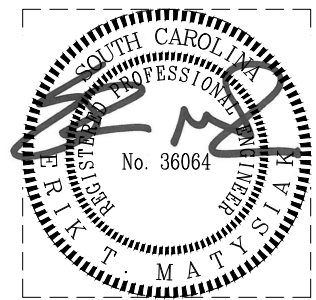
NO.	DESCRIPTION	DATE

NEW WORK NOTES

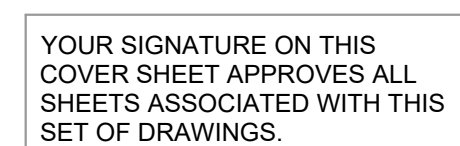
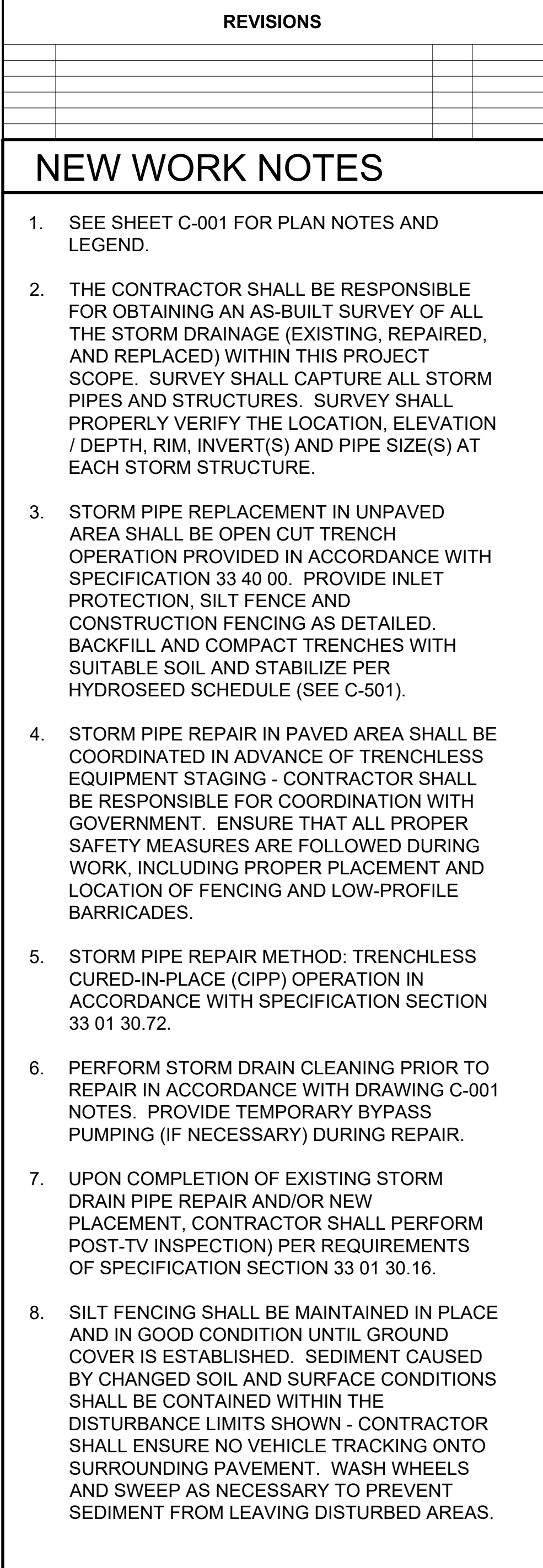
- SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
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- STORM PIPE REPAIR IN PAVED AREA SHALL BE COORDINATED IN ADVANCE OF TRENCHLESS EQUIPMENT STAGING - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH GOVERNMENT. ENSURE THAT ALL PROPER SAFETY MEASURES ARE FOLLOWED DURING WORK, INCLUDING PROPER PLACEMENT AND LOCATION OF FENCING AND LOW-PROFILE BARRICADES.
- STORM PIPE REPAIR METHOD: TRENCHLESS CURED-IN-PLACE (CIPP) OPERATION IN ACCORDANCE WITH SPECIFICATION SECTION 33 01 30.72.
- PERFORM STORM DRAIN CLEANING PRIOR TO REPAIR IN ACCORDANCE WITH DRAWING C-001 NOTES. PROVIDE TEMPORARY BYPASS PUMPING (IF NECESSARY) DURING REPAIR.
- UPON COMPLETION OF EXISTING STORM DRAIN PIPE REPAIR AND/OR NEW PLACEMENT, CONTRACTOR SHALL PERFORM POST-TV INSPECTION PER REQUIREMENTS OF SPECIFICATION SECTION 33 01 30.16.
- SILT FENCING SHALL BE MAINTAINED IN PLACE AND IN GOOD CONDITION UNTIL GROUND COVER IS ESTABLISHED. SEDIMENT CAUSED BY CHANGED SOIL AND SURFACE CONDITIONS SHALL BE CONTAINED WITHIN THE DISTURBANCE LIMITS SHOWN - CONTRACTOR SHALL ENSURE NO VEHICLE TRACKING ONTO SURROUNDING PAVEMENT. WASH WHEELS AND SWEEP AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING DISTURBED AREAS.




KEYPLAN

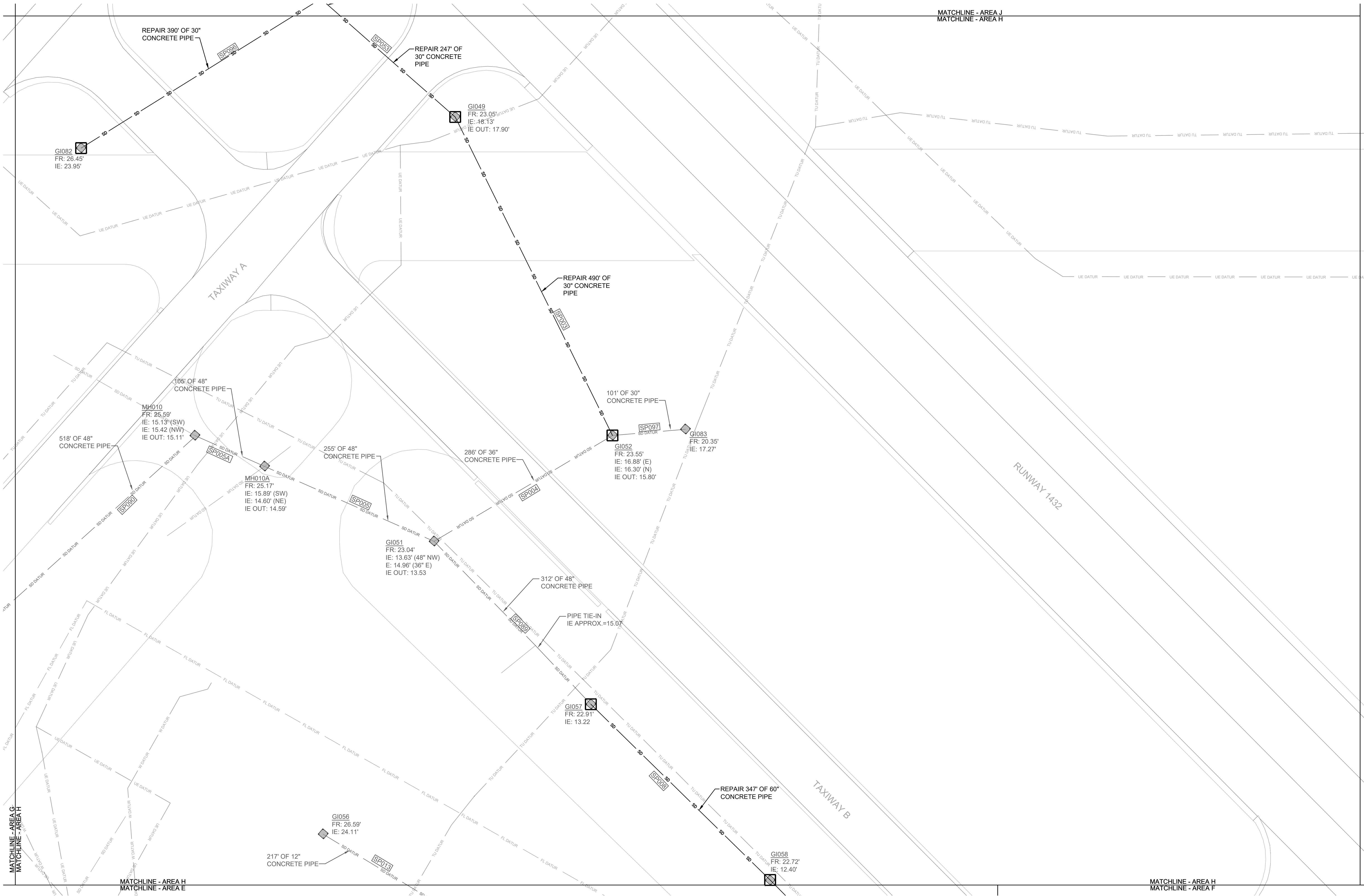


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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27084	C1107	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SITE IMPROVEMENTS PLAN - AREA F	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	SIZE F	CODE IDENT. NO. NAVFAC DRAWING NO.
		HQMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 25 OF 35

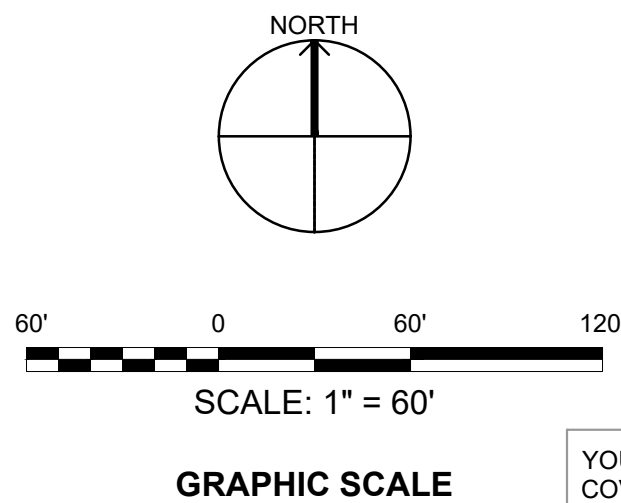


IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY		ISSUE DATE: APR 27, 2020	
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE		P.W. DWG. NO. 27085	
SAFETY DEPARTMENT SATISFACTORY TO DATE		 <div style="float: right; font-size: 2em; font-weight: bold;">C1108</div>	
FIRE DEPARTMENT SATISFACTORY TO DATE		DEPARTMENT OF THE NAVY <b>MARINE CORPS AIR STATION</b> BEAUFORT, S.C.	
PHYSICAL SECURITY SATISFACTORY TO DATE		AIRFIELD STORMWATER REPAIRS (BE2004M)  SITE IMPROVEMENTS PLAN - AREA G	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE		SUPERVISOR <b>S. THOMAS</b>	
APPROVED		DATE	
PUBLIC WORKS OFFICER		SIZE <b>F</b> CODE IDENT. NO. NAVFAC DRAWING NO. HMC PROJ. NO.: BE2004M CONSTR. CONTR. NO.: N40085-18-D-0616 SCALE: AS NOTED MACC. T.O.# SHEET 26 OF 35	





1 SITE IMPROVEMENTS PLAN - AREA H  
SCALE: 1" = 60'-0"

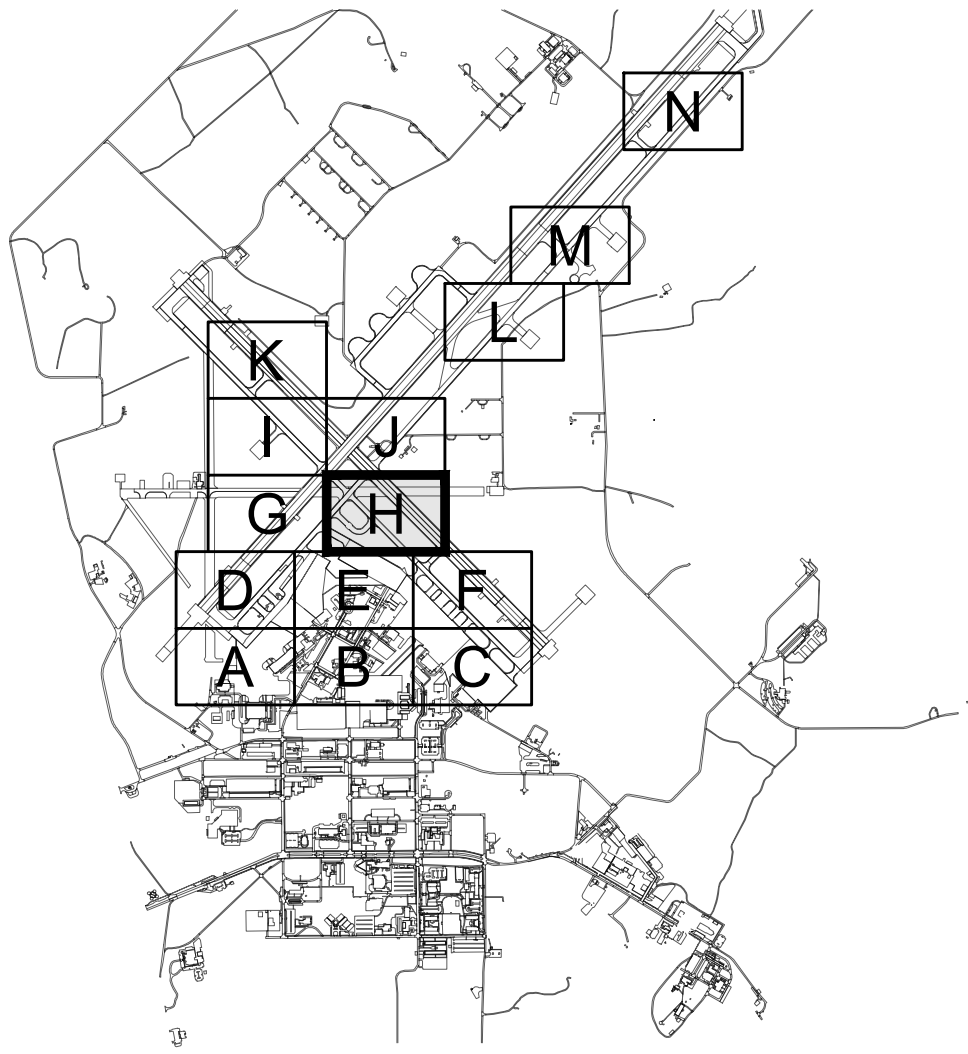


YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

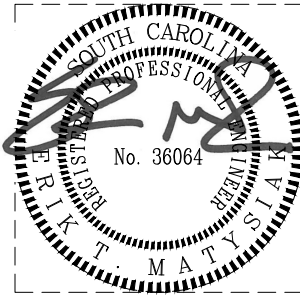
REVISIONS

NEW WORK NOTES

- SEE SHEET C-001 FOR PLAN NOTES AND LEGEND.
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- STORM PIPE REPAIR IN PAVED AREA SHALL BE COORDINATED IN ADVANCE OF TRENCHLESS EQUIPMENT STAGING - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH GOVERNMENT. ENSURE THAT ALL PROPER SAFETY MEASURES ARE FOLLOWED DURING WORK, INCLUDING PROPER PLACEMENT AND LOCATION OF FENCING AND LOW-PROFILE BARRICADES.
- STORM PIPE REPAIR METHOD: TRENCHLESS CURED-IN-PLACE (CIPP) OPERATION IN ACCORDANCE WITH SPECIFICATION SECTION 33 01 30.72.
- PERFORM STORM DRAIN CLEANING PRIOR TO REPAIR IN ACCORDANCE WITH DRAWING C-001 NOTES. PROVIDE TEMPORARY BYPASS PUMPING (IF NECESSARY) DURING REPAIR.
- UPON COMPLETION OF EXISTING STORM DRAIN PIPE REPAIR AND/OR NEW PLACEMENT, CONTRACTOR SHALL PERFORM POST-TV INSPECTION) PER REQUIREMENTS OF SPECIFICATION SECTION 33 01 30.16.
- SILT FENCING SHALL BE MAINTAINED IN PLACE AND IN GOOD CONDITION UNTIL GROUND COVER IS ESTABLISHED. SEDIMENT CAUSED BY CHANGED SOIL AND SURFACE CONDITIONS SHALL BE CONTAINED WITHIN THE DISTURBANCE LIMITS SHOWN - CONTRACTOR SHALL ENSURE NO VEHICLE TRACKING ONTO SURROUNDING PAVEMENT. WASH WHEELS AND SWEEP AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING DISTURBED AREAS.

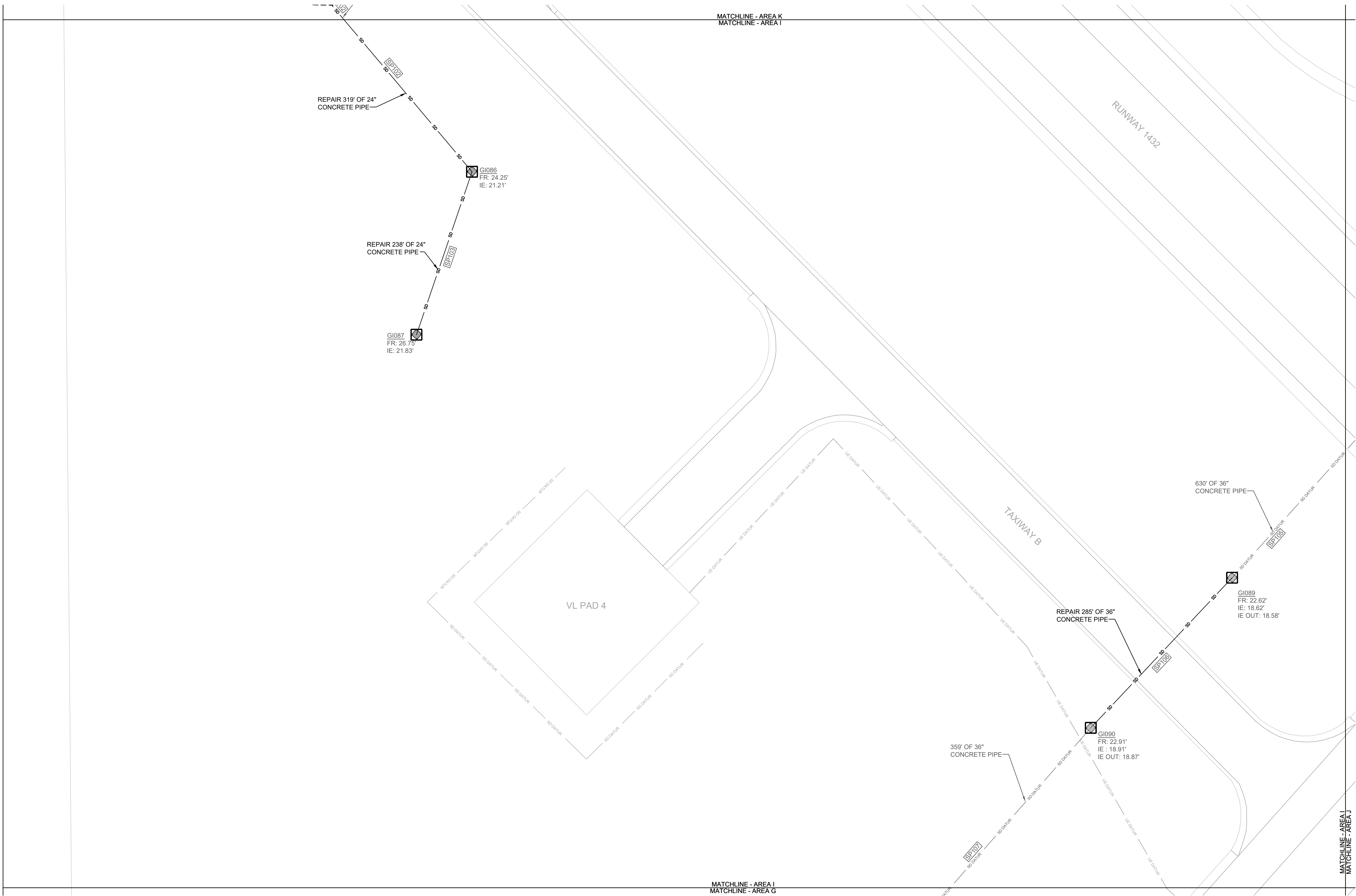


KEYPLAN

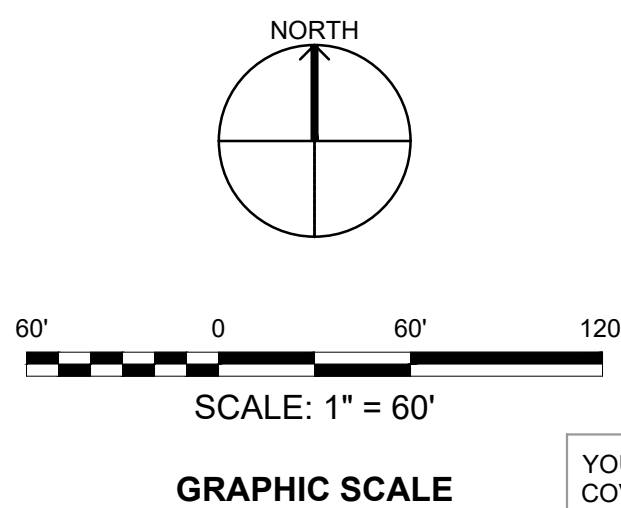


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ISSUE DATE: APR 27, 2020

NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27086	CEMS ENGINEERING   ARCHITECTURE INCORPORATING LANDSCAPE ARCHITECTURE	C1109
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	MARINE CORPS AIR STATION
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SITE IMPROVEMENTS PLAN - AREA H	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE PUBLIC WORKS OFFICER	SIZE F	CODE IDENT. NO. NAVFAC DRAWING NO.
		HOMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 27 OF 35



**1 SITE IMPROVEMENTS PLAN - AREA I**  
SCALE: 1" = 60'-0"

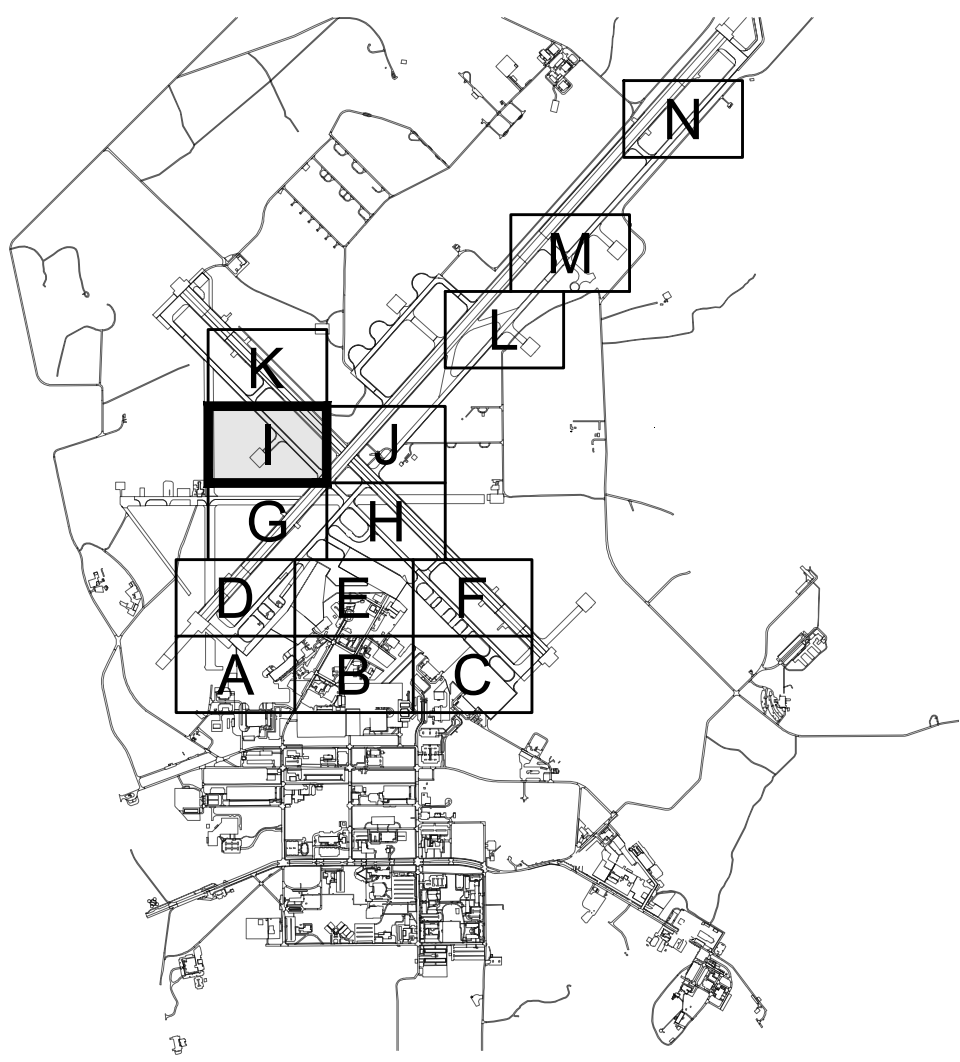


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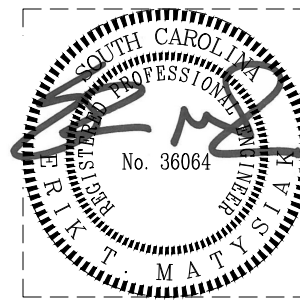
REVISIONS

NEW WORK NOTES

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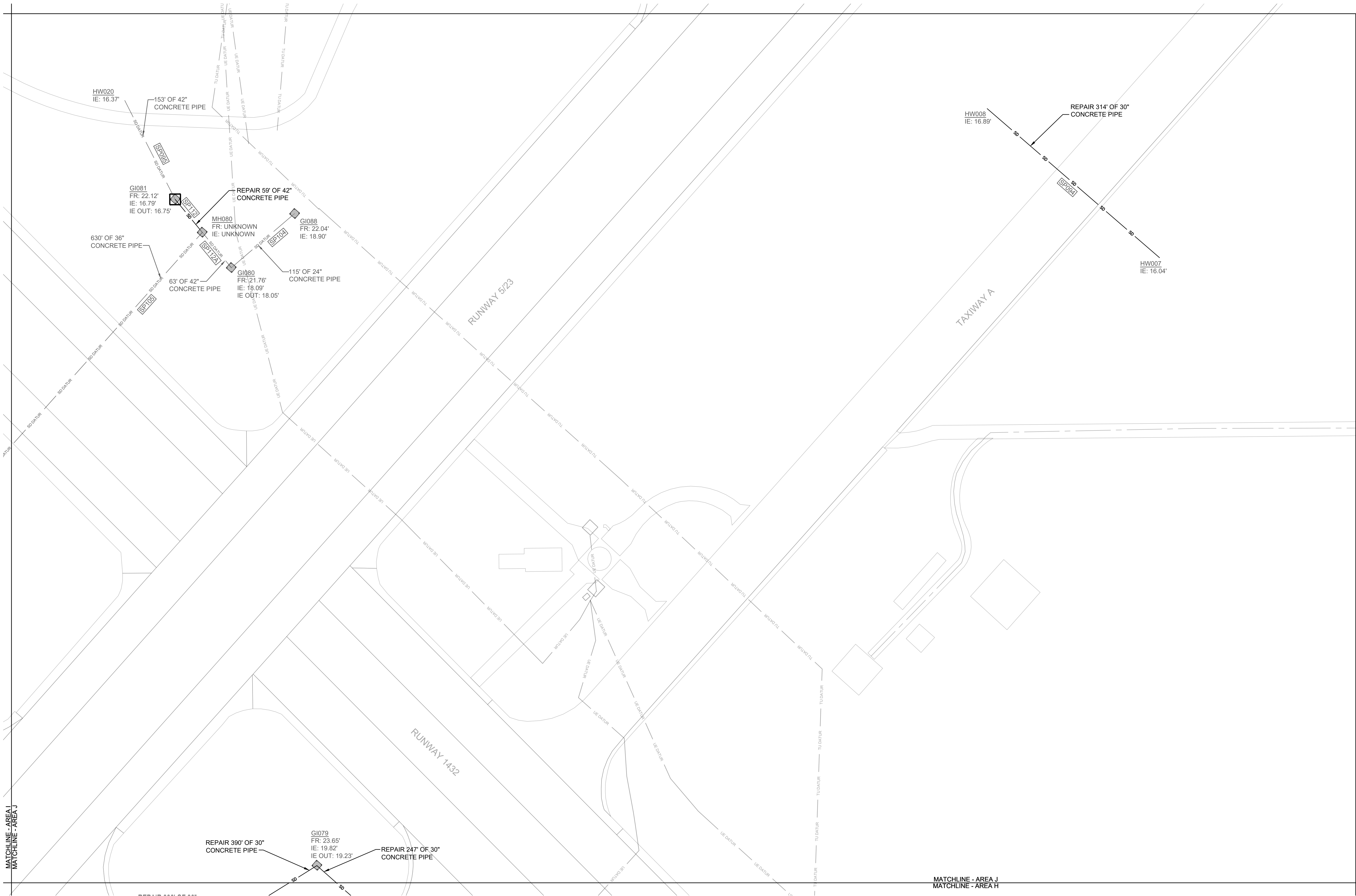


KEYPLAN

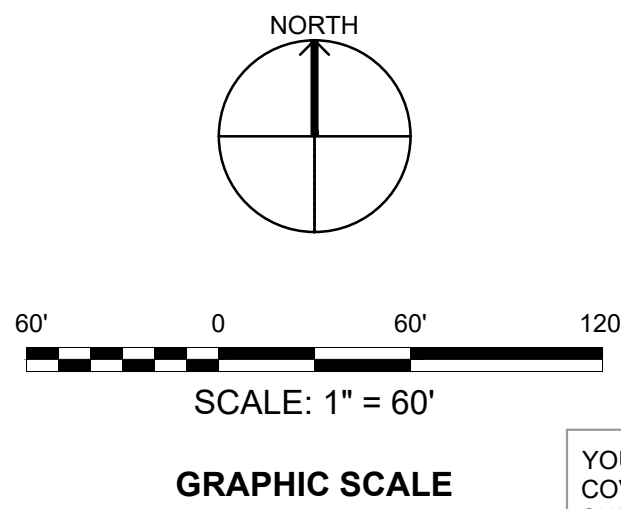


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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27087	<b>CEMS</b> ENGINEERING   ARCHITECTURE <small>REGISTERED PROFESSIONAL ENGINEERS</small>	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND <b>MARINE CORPS AIR STATION</b>	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SITE IMPROVEMENTS PLAN - AREA I	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	SIZE F	CODE IDENT. NO.
	PUBLIC WORKS OFFICER	HOMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 28 OF 35





**1 SITE IMPROVEMENTS PLAN - AREA J**  
SCALE: 1" = 60'-0"



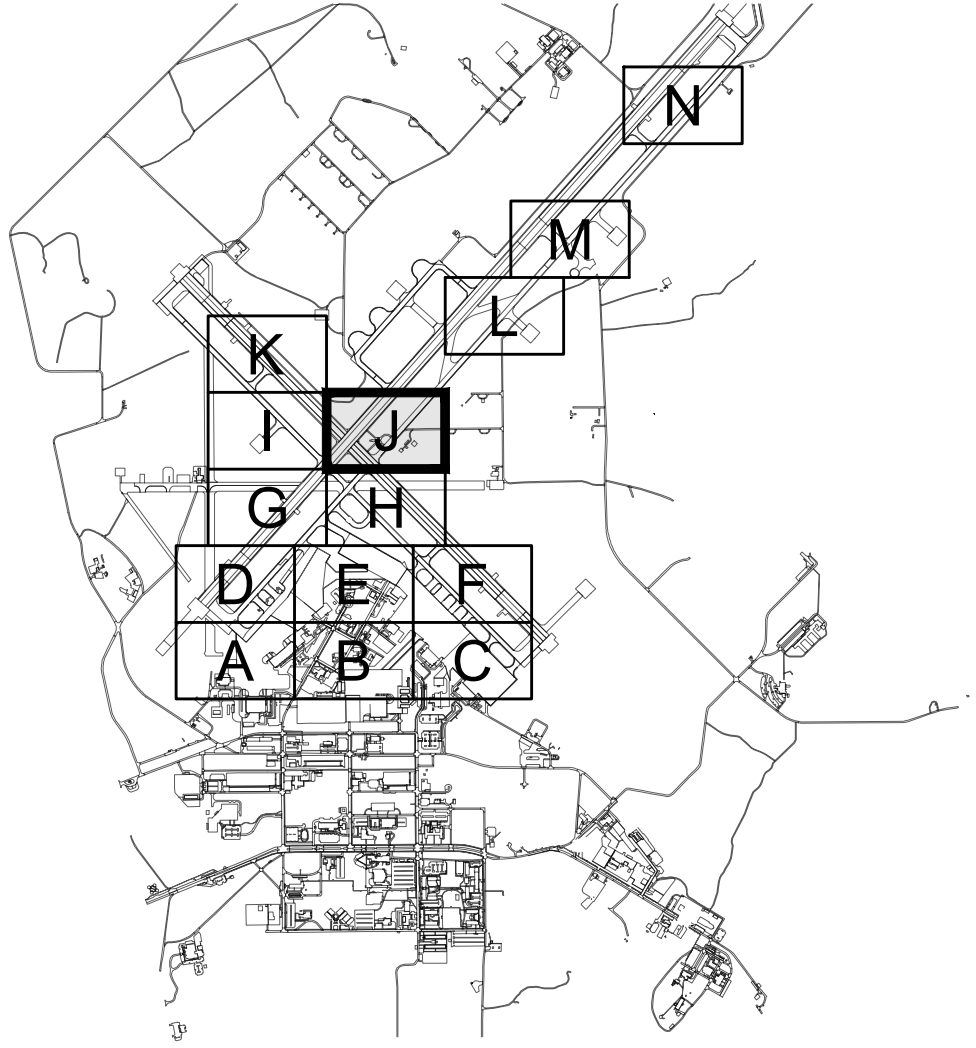
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REVISIONS

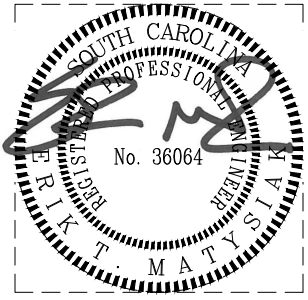
NO.	DESCRIPTION	DATE	BY

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KEYPLAN

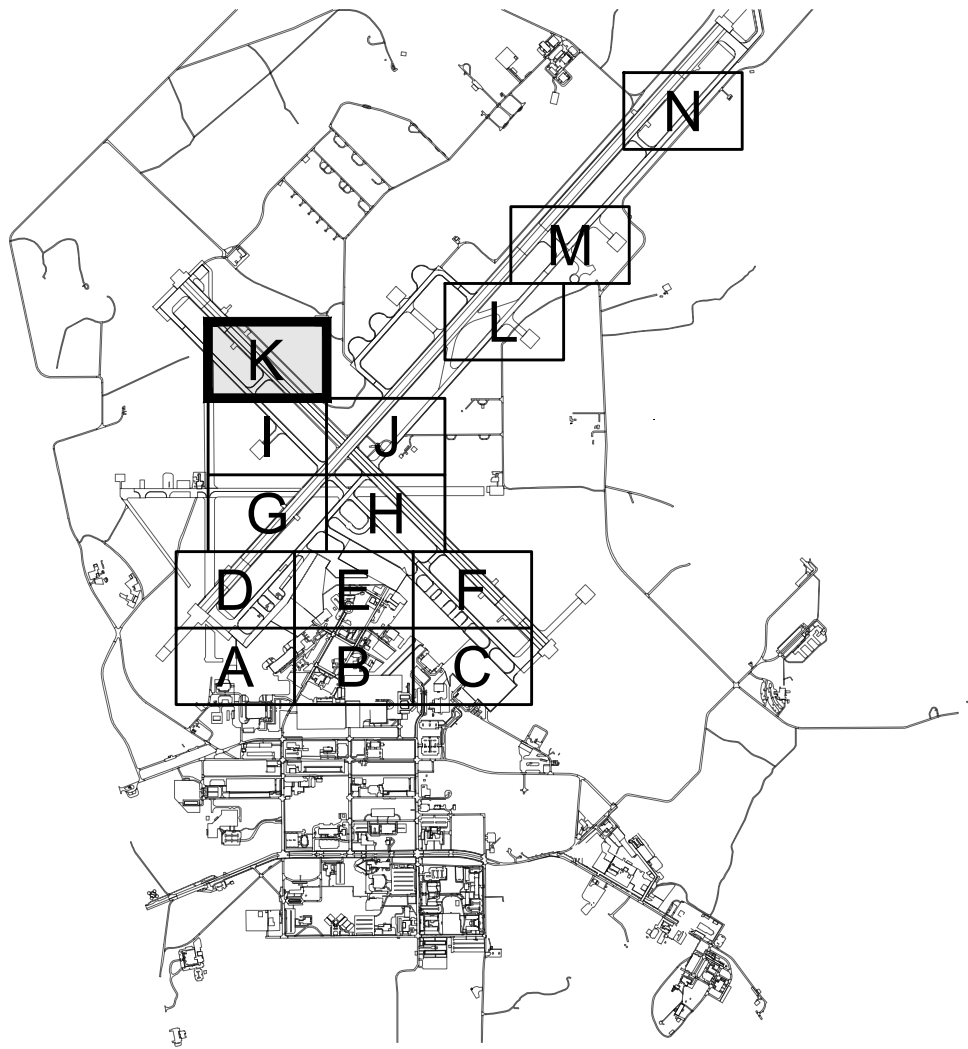


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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27088	C1111	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SITE IMPROVEMENTS PLAN - AREA J	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	SIZE F	CODE IDENT. NO.
	PUBLIC WORKS OFFICER	HOMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 29 OF 35

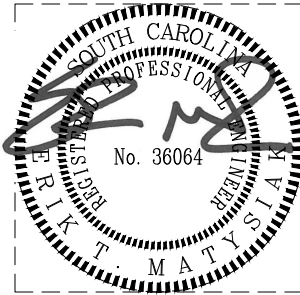
REVISIONS		

NEW WORK NOTES

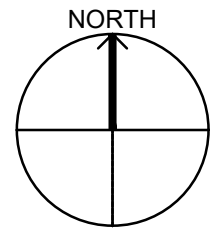
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KEYPLAN



1 SITE IMPROVEMENTS PLAN - AREA K  
SCALE: 1" = 60'-0"



60' 0 60' 120'

SCALE: 1" = 60'

GRAPHIC SCALE

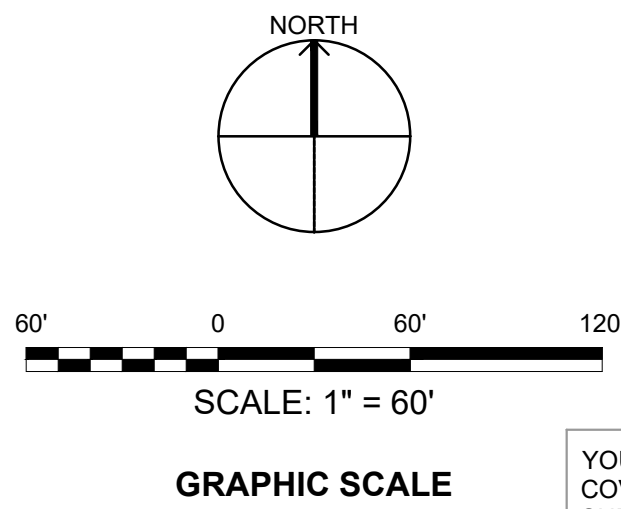
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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27089	C1112	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SITE IMPROVEMENTS PLAN- AREA K	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	SIZE F	CODE IDENT. NO. N A V F A C DRAWING NO.
PUBLIC WORKS OFFICER		HOMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 30 OF 35





1 SITE IMPROVEMENTS PLAN - AREA L  
SCALE: 1" = 60'-0"



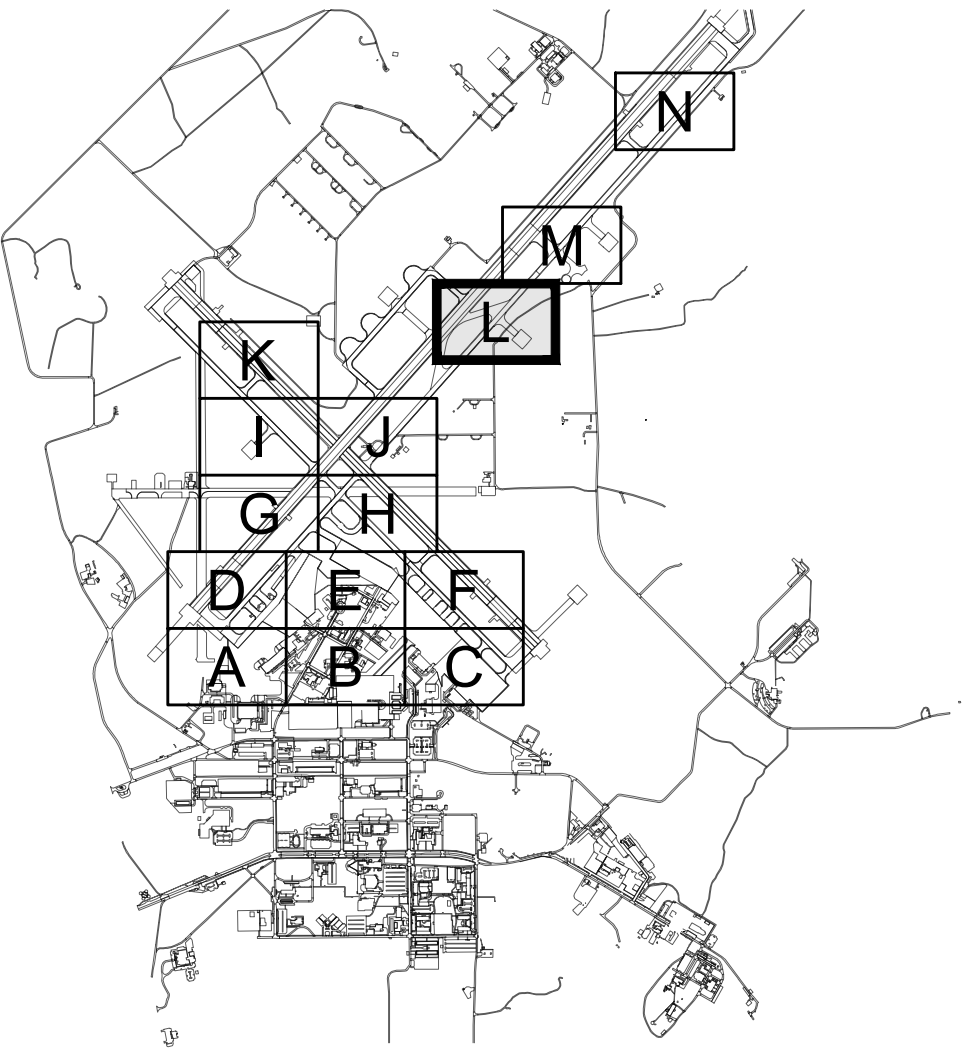
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REVISIONS

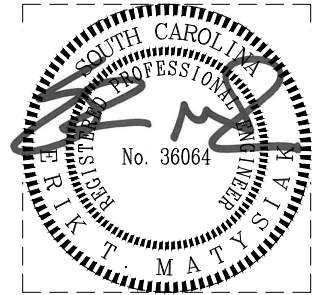
NO.	DESCRIPTION	DATE	BY

NEW WORK NOTES

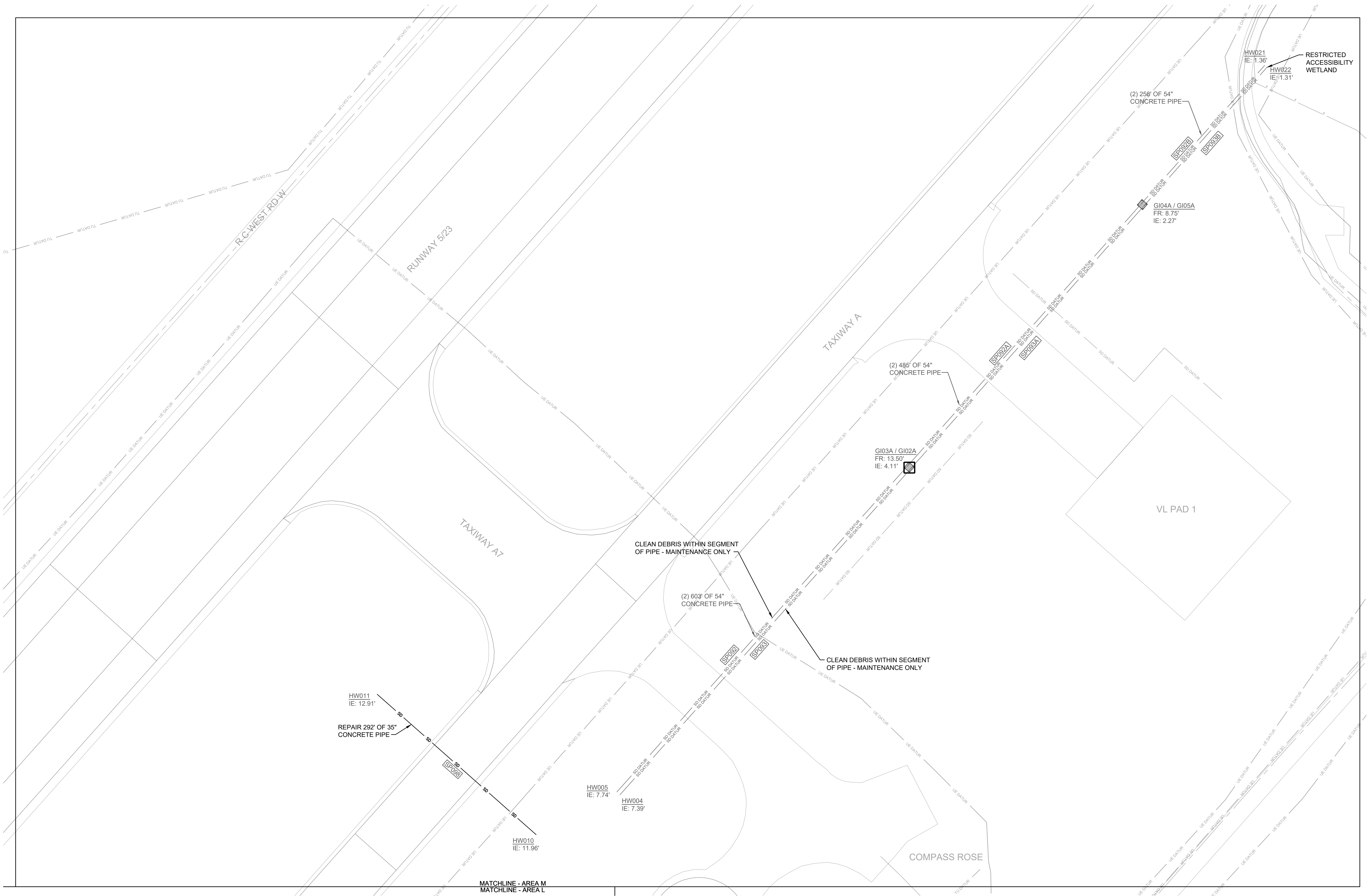
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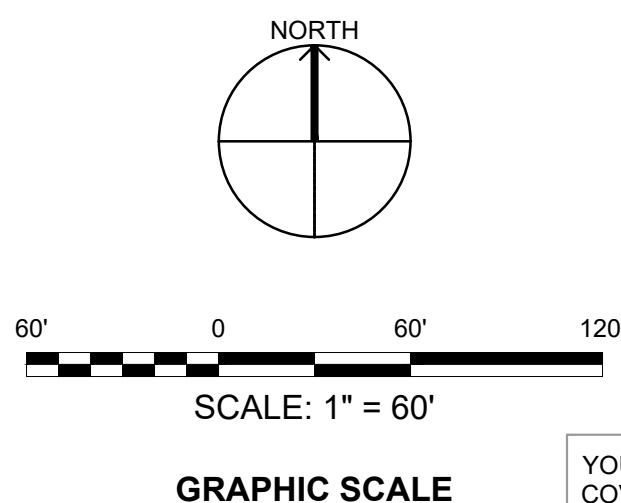
KEYPLAN



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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27090	<div>CEMS</div> <div>ENGINEERING   ARCHITECTURE</div> <div><small>INCORPORATING LANDSCAPE ARCHITECTURE</small></div>		CI113	
	SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS AIR STATION <small>BEAUFORT, S.C.</small>		
	FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)		
	PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SITE IMPROVEMENTS PLAN- AREA L		
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED	DATE	SIZE F	CODE IDENT. NO.	NAV FAC DRAWING NO.
			HQMC PROJ. NO.: BE2004M		CONSTR. CONTR. NO.: N40085-18-D-0616
	PUBLIC WORKS OFFICER		SCALE: AS NOTED	MACC.	T.O. # SHEET 31 OF 35



1 SITE IMPROVEMENTS PLAN - AREA M  
SCALE: 1" = 60'-0"

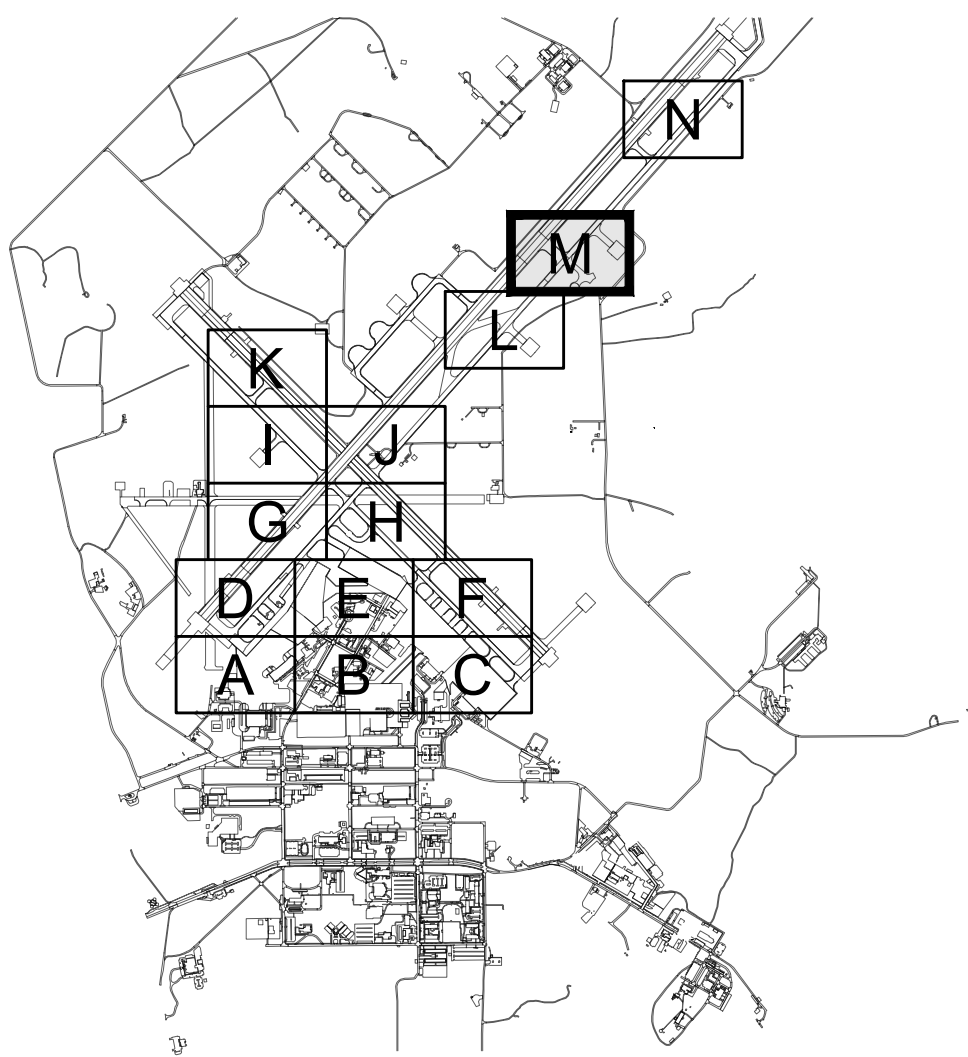


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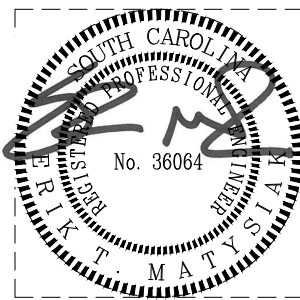
REVISIONS

NEW WORK NOTES

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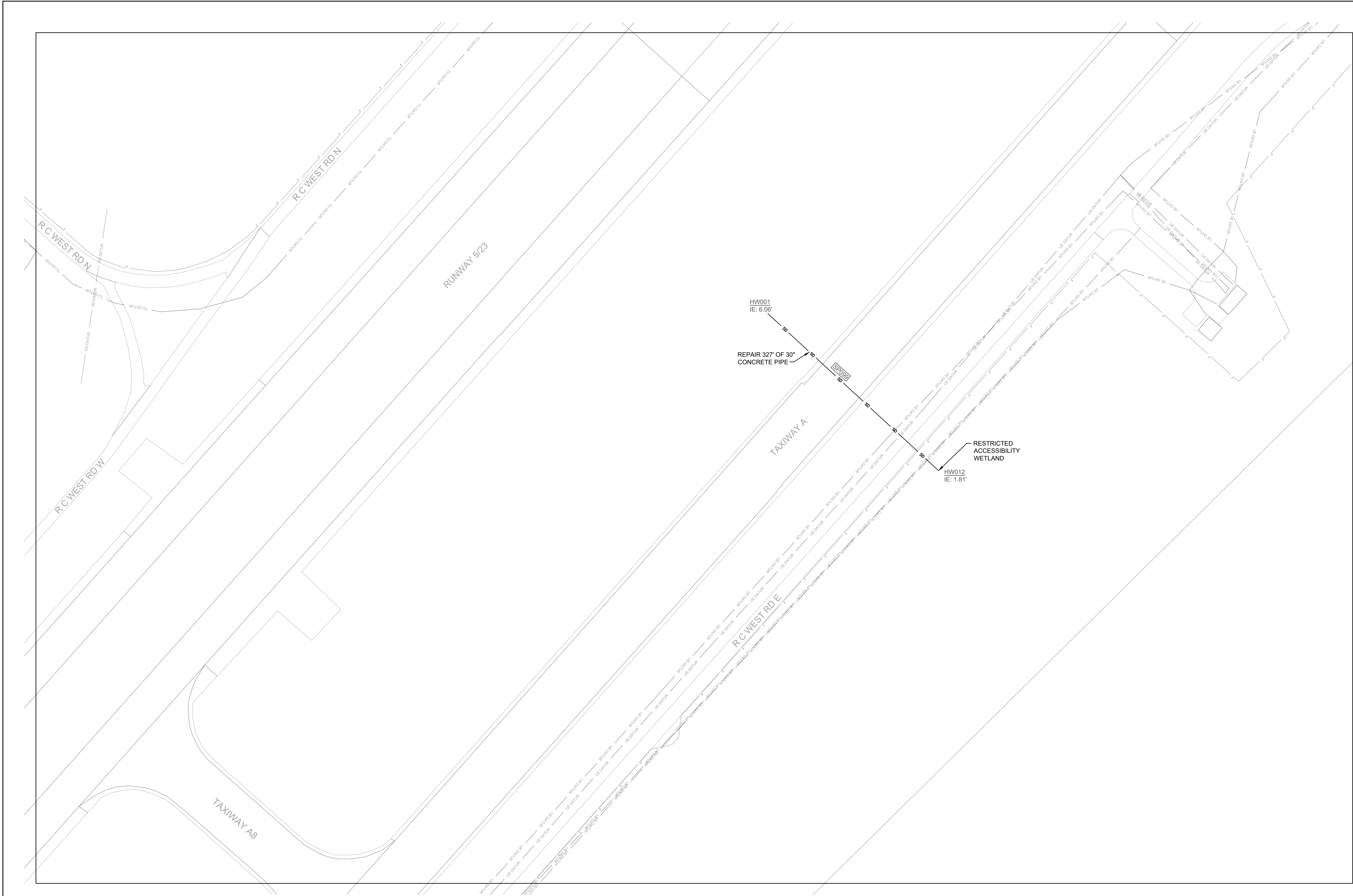


KEYPLAN

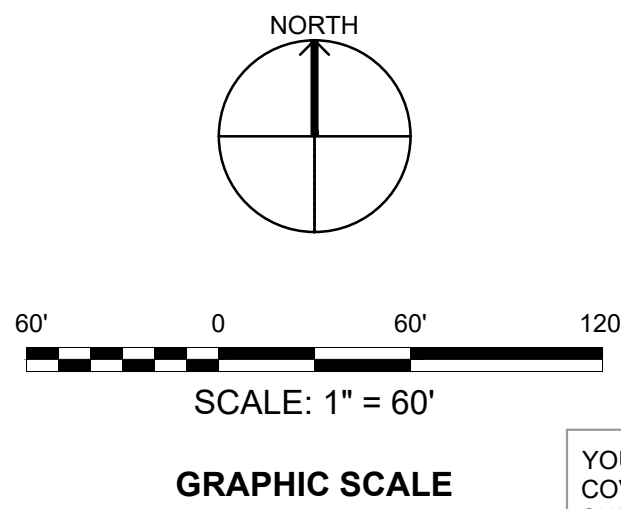


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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27091	C1114	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	MARINE CORPS AIR STATION	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SITE IMPROVEMENTS PLAN- AREA M	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	SIZE F	CODE IDENT. NO.
	PUBLIC WORKS OFFICER	HOMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-15-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 32 OF 35





1 SITE IMPROVEMENTS PLAN - AREA N  
SCALE: 1" = 60'-0"



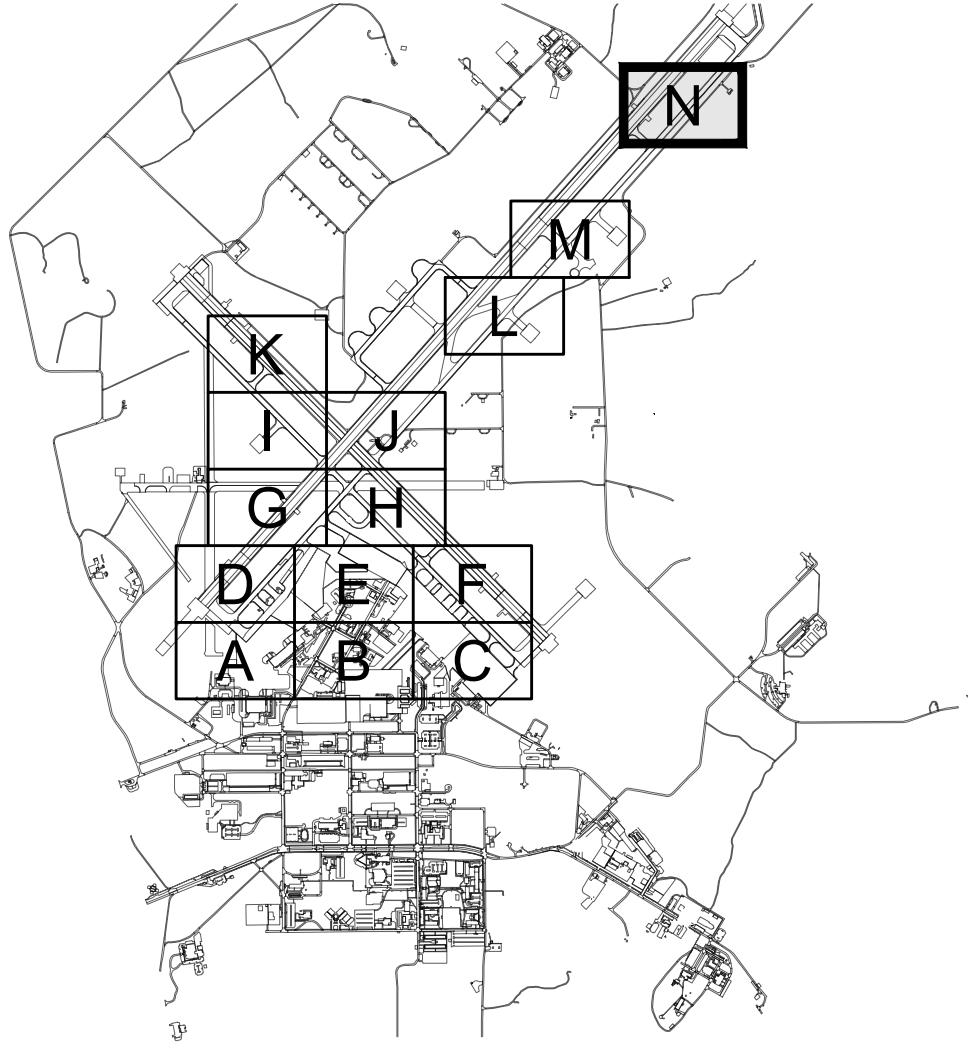
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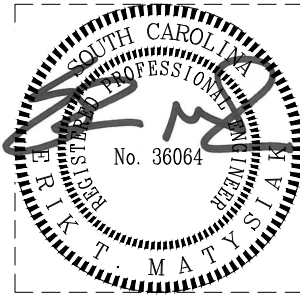
NO.	DESCRIPTION	DATE

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KEYPLAN



IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT. SCALE ACCORDINGLY		ISSUE DATE: APR 27, 2020	
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27092	<div>CEMS ENGINEERING   ARCHITECTURE</div> <div>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND</div> <div>MARINE CORPS AIR STATION</div> <div>C1115</div>	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. CARROLL/E. MATYSIAK	AIRFIELD STORMWATER REPAIRS (BE2004M)	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY/C. MOORING	SITE IMPROVEMENTS PLAN- AREA N	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	SIZE F	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	CODE IDENT. NO.	NAV F A C DRAWING NO.
PUBLIC WORKS OFFICER		HQMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. # SHEET 33 OF 35



STANDARD NOTES:

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS. IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
  - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
  - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO THE WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAYS) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.
- TEMPORARY DIVISION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
  - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
  - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
  - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
  - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THE DEPARTMENT'S QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

SEDIMENT AND EROSION CONTROL NOTES

1. GENERAL

- ALL AREAS WHICH ARE DISTURBED BY THE CONTRACTOR SHALL BE STABILIZED.
- PROVIDE A DOUBLE ROW OF SILT FENCE IN ALL AREAS WHERE A 50' BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND THE WETLANDS. A 10' BUFFER SHALL BE LEFT WITH THE WETLANDS AND SILT FENCE.

2. COASTAL SEEDING SPECIFICATIONS

PERMANENT SEEDING:

GRASSING MEANS ARE SPECIFIED FOR EACH SITE ON THE SITE SHEETS. CONTRACTOR SHALL ENSURE EFFECTIVE WATERING AND PERIODIC INSPECTION TO ENSURE APPROPRIATE GROWTH OF GRASS.

TEMPORARY SEEDING (EXCEPT FOR FLIGHTLINE LOCATIONS):

"COOL SEASON": PLANTED BETWEEN 1 SEPTEMBER AND 3 MARCH  
SANDY, DROUGHTY SITES

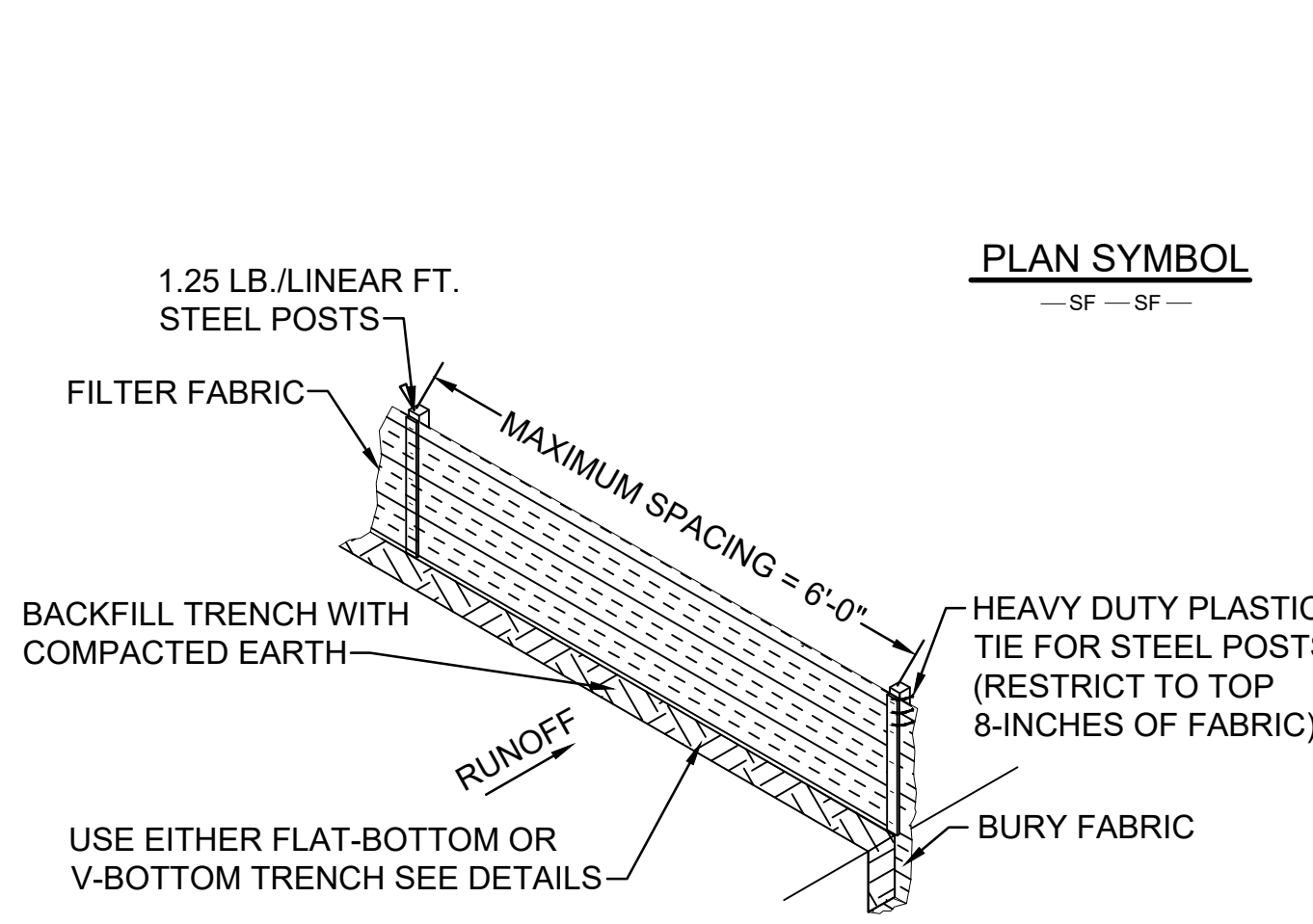
SPECIES	RATE
RYEGRASS W/ BERMUDA	90-135 LBS./AC.
WELL DRAINED, CLAYEY/LOAMY SITES	
SPECIES	RATE
RYEGRASS W/ BERMUDA	90-135 LBS./AC.

"WARM SEASON": PLANTED BETWEEN 4 MARCH AND 31 AUGUST  
SANDY, DROUGHTY SITES

SPECIES	RATE
BERMUDA (PURE)	90-135 LBS./AC.
WELL DRAINED, CLAYEY/LOAMY SITES	
SPECIES	RATE
BERMUDA (PURE)	90-135 LBS./AC.

3. EROSION CONTROL PLAN

- INSTALL PERMANENT VEGETATIVE COVER AND THE LONG-TERM EROSION PROTECTION MEASURES OR STRUCTURES AS SOON AS PRACTICAL IN THE DEVELOPMENT PROCESS.
- PROVIDE FOR HANDLING THE INCREASED RUNOFF CAUSED BY CHANGED SOIL AND SURFACE CONDITIONS. USE EFFECTIVE MEANS TO CONSERVE EXISTING ON-SITE SOIL INCLUDING THE USE OF DIVERSION DITCHES, GRASSED WATERWAYS AND STORM SEWERS.
- PLACE SILT FENCE BARRIERS AT LOCATIONS SHOWN ON PLAN. SILT BARRIERS SHALL BE MAINTAINED IN PLACE AND IN GOOD CONDITION UNTIL GROUND COVER IS ESTABLISHED.
- ALL DISTURBED AREAS NOT PAVED SHALL BE GRASSED. USE TEMPORARY PLANT COVER, MULCHING, AND/OR STRUCTURES TO CONTROL RUNOFF AND PROTECT AREAS SUBJECT TO EROSION DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE DUMPSTER OF SUFFICIENT SIZE AND NUMBER TO CONTAIN THE SOLID WASTE GENERATED BY THE PROJECT.
- CONTRACTOR SHALL FREQUENTLY REMOVE GARBAGE TO MAINTAIN A CLEAN CONSTRUCTION SITE AND MINIMIZE THE EXPOSURE OF WASTE TO STORM WATER.



1 SILT FENCE INSTALLATION  
SCALE: NOT TO SCALE

SILT FENCE - GENERAL NOTES

- DO NOT PLACE SILT FENCE ACROSS CHANNELS OR IN OTHER AREAS SUBJECT TO CONCENTRATED FLOWS. SILT FENCE SHOULD NOT BE USED AS A VELOCITY CONTROL BMP. CONCENTRATED FLOWS ARE ANY FLOWS GREATER THAN 0.5 CFS.
- MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE SILT FENCE SHALL BE 100-FEET.
- MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO THE FENCE LINE) SHALL BE 2:1.
- SILT FENCE JOINTS, WHEN NECESSARY, SHALL BE COMPLETED BY ONE OF THE FOLLOWING OPTIONS: WRAP EACH FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 1-FOOT MINIMUM OVERLAP;
- OVERLAP SILT FENCE BY INSTALLING 3-FEET PASSED THE SUPPORT POST TO WHICH THE NEW SILT FENCE ROLL IS ATTACHED. ATTACH OLD ROLL TO NEW ROLL WITH HEAVY-DUTY PLASTIC TIES; OR,
- OVERLAP ENTIRE WIDTH OF EACH SILT FENCE ROLL FROM ONE SUPPORT POST TO THE NEXT SUPPORT POST.
- ATTACH FILTER FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED WITHIN THE TOP 8-INCHES OF THE FABRIC.
- INSTALL THE SILT FENCE PERPENDICULAR TO THE DIRECTION OF THE STORMWATER FLOW AND PLACE THE SILT FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.
- INSTALL SILT FENCE CHECKS (TIE-BACKS) EVERY 50-100 FEET, DEPENDENT ON SLOPE. ALONG SILT FENCE THAT IS INSTALLED WITH SLOPE AND WHERE CONCENTRATED FLOWS ARE EXPECTED OR ARE DOCUMENTED ALONG THE PROPOSED/INSTALLED SILT FENCE.

SILT FENCE - POST REQUIREMENTS

- SILT FENCE POSTS MUST BE 48-INCH LONG STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS:
  - COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
  - INCLUDE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND A NOMINAL "T" LENGTH OF 1.48-INCHES.
  - WEIGH 1.25 POUNDS PER FOOT (+ 8%)
- POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF FILTER FABRIC.
- STEEL POSTS MAY NEED TO HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM WHEN INSTALLED ALONG STEEP SLOPES OR INSTALLED IN LOOSE SOILS. THE PLATE SHOULD HAVE A MINIMUM CROSS SECTION OF 17-SQUARE INCHES AND BE COMPOSED OF 15 GAUGE STEEL, AT A MINIMUM. THE METAL SOIL STABILIZATION PLATE SHOULD BE COMPLETELY BURIED.
- INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1'-TO 2'- INCHES ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 3 FEET SHALL BE MAINTAINED ABOVE THE GROUND.
- POST SPACING SHALL BE AT A MAXIMUM OF 6-FEET ON CENTER.

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION: LIST OF QUALIFIED PROVIDERS OF SILT FENCING / LOW FLOW DROP INLET PROTECTION GEOTEXTILE FABRICS

BELTON INDUSTRIES, INC.  
PO BOX 127 (2) STYLE 941  
BELTON, SC 29627 (3) STYLE 945  
(864) 338-5711  
ATTN: MR. DAVID GALLOWAY

THRACE-LINQ  
2550 WEST FIFTH NORTH ST.  
SUMMERVILLE, SC 29483-9699  
(803) 875-8280  
(800) 445-4675

CONSTRUCTION FABRICS & SUPPLY  
1603 JAMES P. ROGERS DRIVE  
VALDOSTA, GEORGIA 31601  
(229) 244-0004  
ATTN: ANGIE ANDERSON OR  
JEFF COPPAGE

HANES GEOCOMPONENTS  
10800 S. COMMERCE BLVD. #9  
SUITE E, CHARLOTTE, NC 28273  
(704)588-7626  
FAX: (704)588-7972  
ATTN: KEITH GREGORY  
WWW.HANESGEO.COM

COASTAL SITE SUPPLY, INC.  
P O BOX 60988  
NORTH CHARLESTON, SC 29419  
877-744-9747  
FAX: 843-744-9750  
ATTN: BILLY DENSON

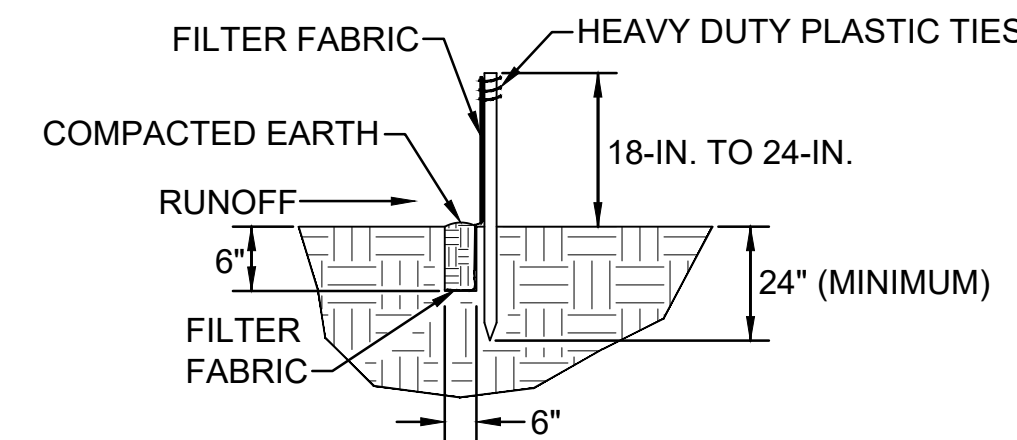
PROTECH ENVIRONMENTAL SUPPLY  
1500 CONTINENTAL BLVD., SUITE C/F  
CHARLOTTE, NC 28273  
(704)676-9788  
FAX: (704)676-9791  
ATTN: MITCH PERKINS

WILLACOOCHIEE INDUSTRIAL FABRICS  
P. O. BOX 599  
HIGHWAY 82 WEST  
WILLACOOCHIEE, GA 31650  
(912) 534-5757  
FAX: (912) 534-5533

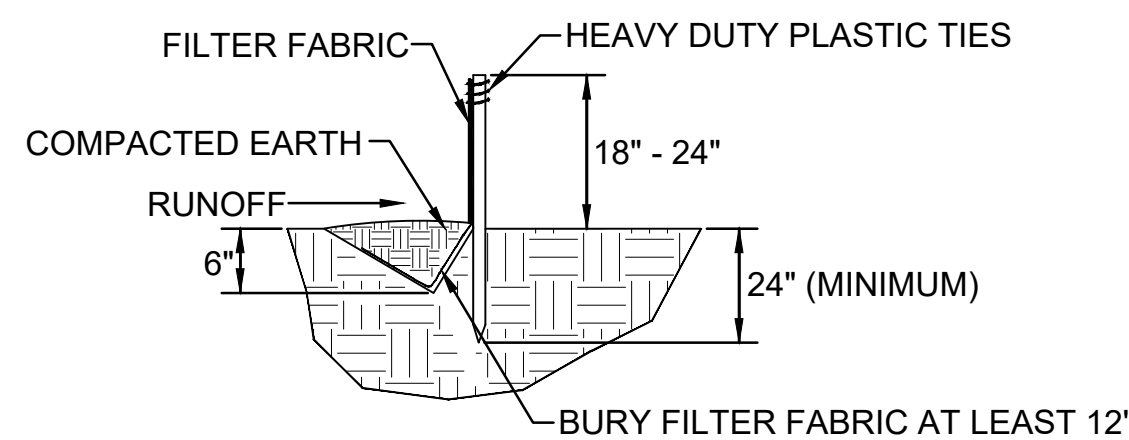
PROPEX, INC.  
P O BOX 22788  
6025 LEE HIGHWAY, SUITE 425  
CHATTANOOGA, TN 37422  
(800)621-1273  
FAX: (423)899-7619  
WWW.GEOTEXTILE.COM

ACF ENVIRONMENTAL  
2831 CARDWELL ROAD  
RICHMOND, VA 23234  
(800)448-3636  
FAX: (804)743-7779  
WWW.ACFENVIRONMENTAL.COM

DDD EROSION CONTROL, INC.  
P O BOX 694  
1383 INDUSTRIAL DRIVE  
ASHBURN, GA 31714  
(229) 567-0751  
FAX: (229) 567-0752  
EMAIL: DDDEROSION@WINDSTREAM.NET  
WWW.3DEROSION.COM  
ATTN: DON DAVIS



2 FLAT BOTTOM TRENCH DETAIL  
SCALE: NOT TO SCALE



3 V-SHAPED TRENCH DETAIL  
SCALE: NOT TO SCALE

SILT FENCE - INSPECTION & MAINTENANCE

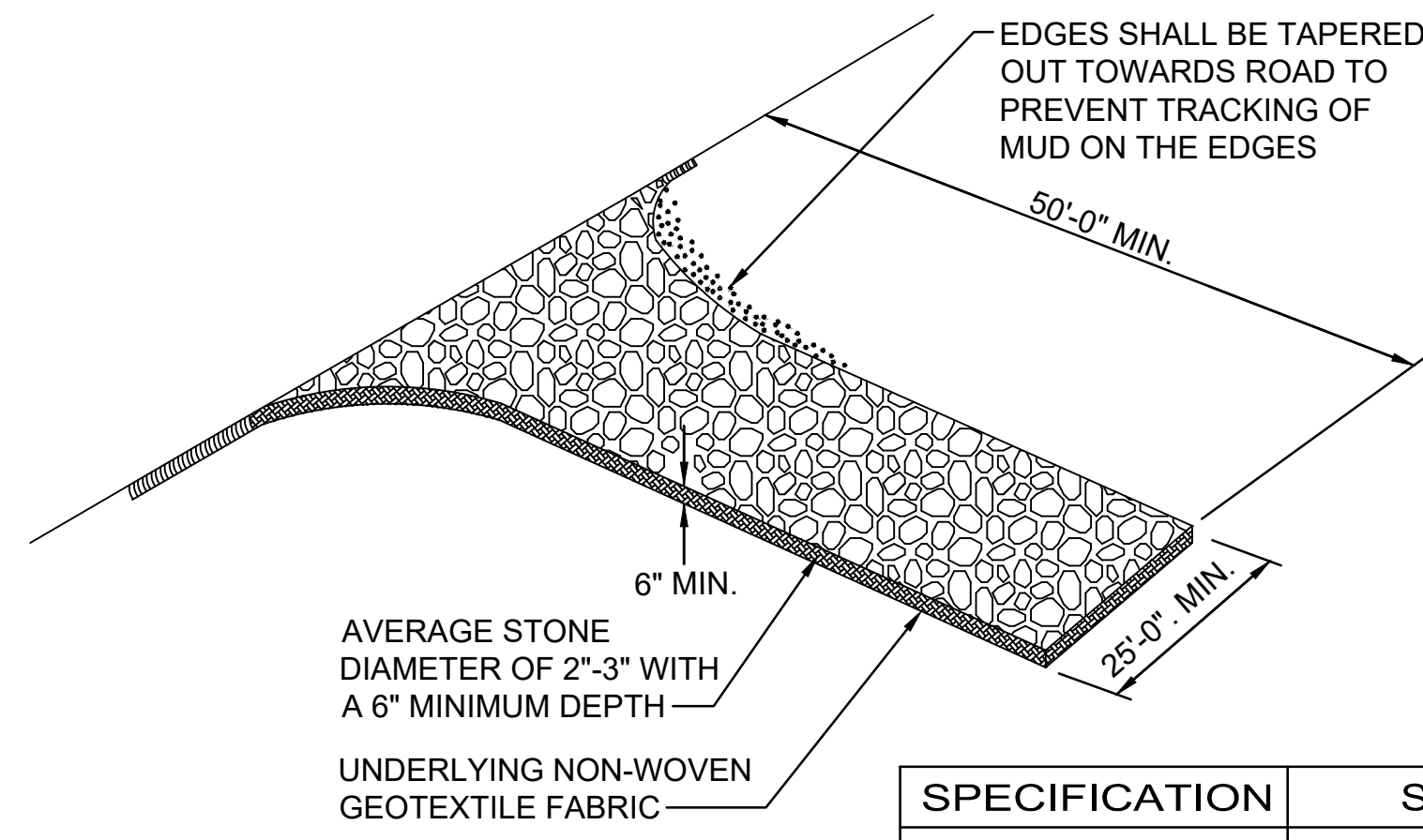
- THE KEY TO FUNCTIONAL SILT FENCE IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF SILT FENCE SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE SILT FENCE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE SILT FENCE.
- REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
- CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH THE SILT FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE SILT FENCE. INSTALL CHECKS/TIE-BACKS AND/OR REINSTALL SILT FENCE, AS NECESSARY.
- CHECK FOR TEARS WITHIN THE SILT FENCE, AREAS WHERE SILT FENCE HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE SILT FENCE INEFFECTIVE. REMOVED DAMAGED SILT FENCE AND REINSTALL NEW SILT FENCE IMMEDIATELY.
- SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND ONCE IT IS REMOVED, THE RESULTING DISTURBED AREA SHALL BE PERMANENTLY STABILIZED.

SILT FENCE - FABRIC REQUIREMENTS

- SILT FENCE MUST BE COMPOSED OF WOVEN GEOTEXTILE FILTER FABRIC THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:
  - COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES THAT ARE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER;
  - FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION;
  - FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,
  - HAVE A MINIMUM WIDTH OF 36-INCHES.
- USE ONLY FABRIC APPEARING ON SC DOT'S QUALIFIED PRODUCTS LISTING (OPL), APPROVAL SHEET #34, MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
- FILTER FABRIC SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS.
- FILTER FABRIC SHALL BE INSTALLED AT A MINIMUM OF 24-INCHES ABOVE THE GROUND.

REVISIONS

NO.	DESCRIPTION	DATE



SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	25 FEET
ROCK PAD LENGTH	50 FEET
ROCK PAD STONE SIZE	D50 = 2-3 INCHES

CONSTRUCTION ENTRANCE - GENERAL NOTES

- STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL EGRESS/INGRESS A CONSTRUCTION SITE ONTO A PUBLIC ROAD OR ANY IMPERVIOUS SURFACES, SUCH AS PARKING LOTS.
- INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE.
- INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
- THE ENTRANCE SHALL CONSIST OF 2-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES.
- MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 25-FEET WIDE BY 50-FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.
- THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING AT THE EDGE OF THE ENTRANCE.
- DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.
- LIMESTONE MAY NOT BE USED FOR THE STONE PAD.

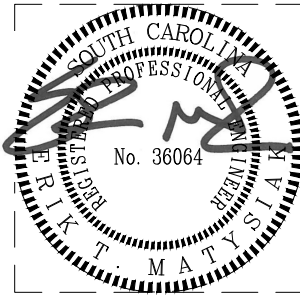
CONSTRUCTION ENTRANCE - INSPECTION & MAINTENANCE

- THE KEY TO FUNCTIONAL CONSTRUCTION ENTRANCES IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF CONSTRUCTION ENTRANCES SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- DURING REGULAR INSPECTIONS, CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. INSPECTION FREQUENCIES MAY NEED TO BE MORE FREQUENT DURING LONG PERIODS OF WET WEATHER.
- RESHAPE THE STONE PAD AS NECESSARY FOR DRAINAGE AND RUNOFF CONTROL.
- WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY SITE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE THE AMOUNT OF MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE PAD.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO ADJACENT IMPERVIOUS SURFACES BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.
- DURING MAINTENANCE ACTIVITIES, ANY BROKEN PAVEMENT SHOULD BE REPAIRED IMMEDIATELY.
- CONSTRUCTION ENTRANCES SHOULD BE REMOVED AFTER THE SITE HAS REACHED FINAL STABILIZATION. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH CONSTRUCTION ENTRANCES HAVE BEEN REMOVED, UNLESS AREA WILL BE CONVERTED TO AN IMPERVIOUS SURFACE TO SERVE POST-CONSTRUCTION.

4 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT  
SCALE: NOT TO SCALE

CONSTRUCTION SEQUENCE:

- PLACE SCDHEC LAND DISTURBANCE PERMIT, APPROVED PLANS AND THE ON-SITE SWPPP (OS-SWPPP) AT A LOCATION ON THE SITE.
- BEFORE LAND DISTURBING ACTIVITIES, THE LOCAL EQC MUST BE NOTIFIED, A DIG PERMIT SUBMITTED TO MCAS, AND A SWPPP PRECONSTRUCTION MEETING PERFORMED.
- INSTALL SILT FENCE AND GRAVEL CONSTRUCTION ENTRANCE. DISTURBANCE SHOULD BE MINIMAL AS NECESSARY TO INSTALL SILT FENCE, INLET PROTECTION AND GRAVEL CONSTRUCTION ENTRANCE.
- BEGIN DEMOLITION AND GRADING OPERATIONS.
- REMOVE AND/OR DEMOLISH EXISTING SITE FEATURES AS INDICATED ON THE DEMOLITION PLAN AND LIMIT SEDIMENT FROM THE SITE.
- COMPLETE FILLING AND GRADING OPERATIONS.
- INITIATE TEMPORARY AND PERMANENT VEGETATIVE STABILIZATION MEASURES AS INDICATED ON THE PLANS.
- REMOVE ACCUMULATED SEDIMENT AND MAINTAIN SEDIMENT DEVICES UNTIL SITE HAS BEEN STABILIZED.
- REMOVE SEDIMENT DEVICES ONCE SITE HAS BEEN STABILIZED AND GIVEN APPROVAL BY GOVERNMENT.
- SUBMIT NOTICE OF TERMINATION TO SCDHEC AND MEET ALL OF THE LAND DISTURBANCE PERMIT REQUIREMENTS.

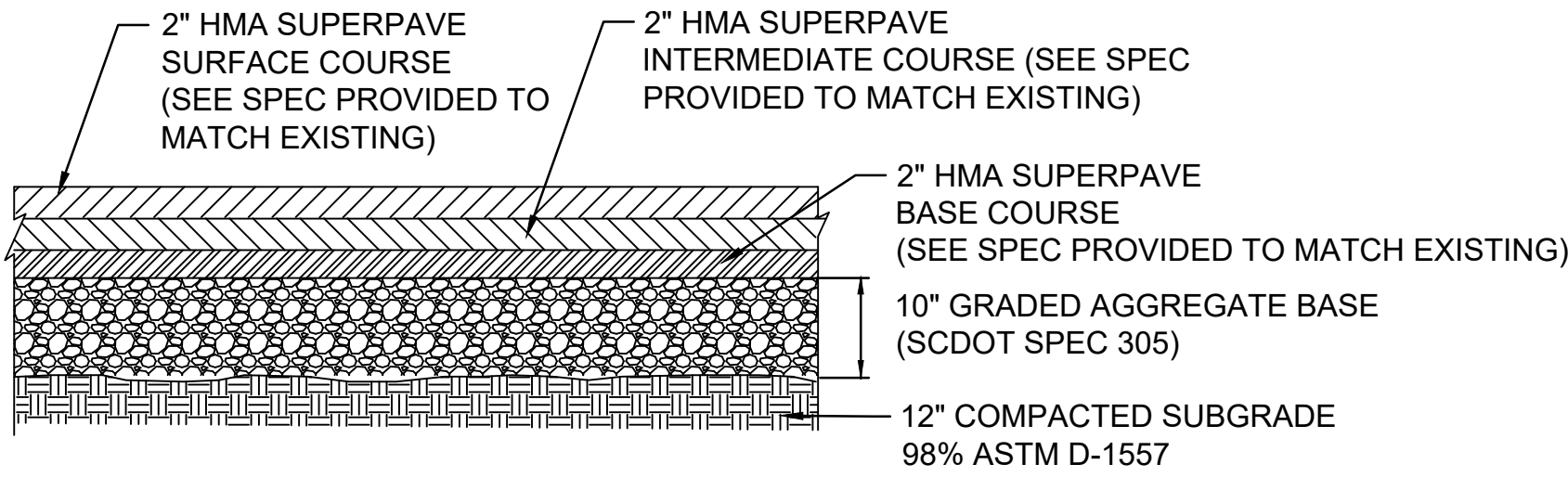


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NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. 27093	<div>CEMS</div> <div>ENGINEERING   ARCHITECTURE</div> <div>DESIGN   CONSTRUCTION   MAINTENANCE</div>		<div>C-501</div>	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY J. BARNES	DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY D. FARLEY	MARINE CORPS AIR STATION BEAUFORT, S.C.			
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR S. THOMAS	AIRFIELD STORMWATER REPAIRS (BE2004M)			
		EROSION CONTROL DETAILS			
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED  DATE	SIZE F	CODE IDENT. NO.	NAV F A C DRAWING NO.	
		HOMC PROJ. NO.: BE2004M		CONSTR. CONTR. NO.: N40085-18-D-0616	
PUBLIC WORKS OFFICER		SCALE: AS NOTED	MACC.	T.O. #	SHEET 34 OF 35

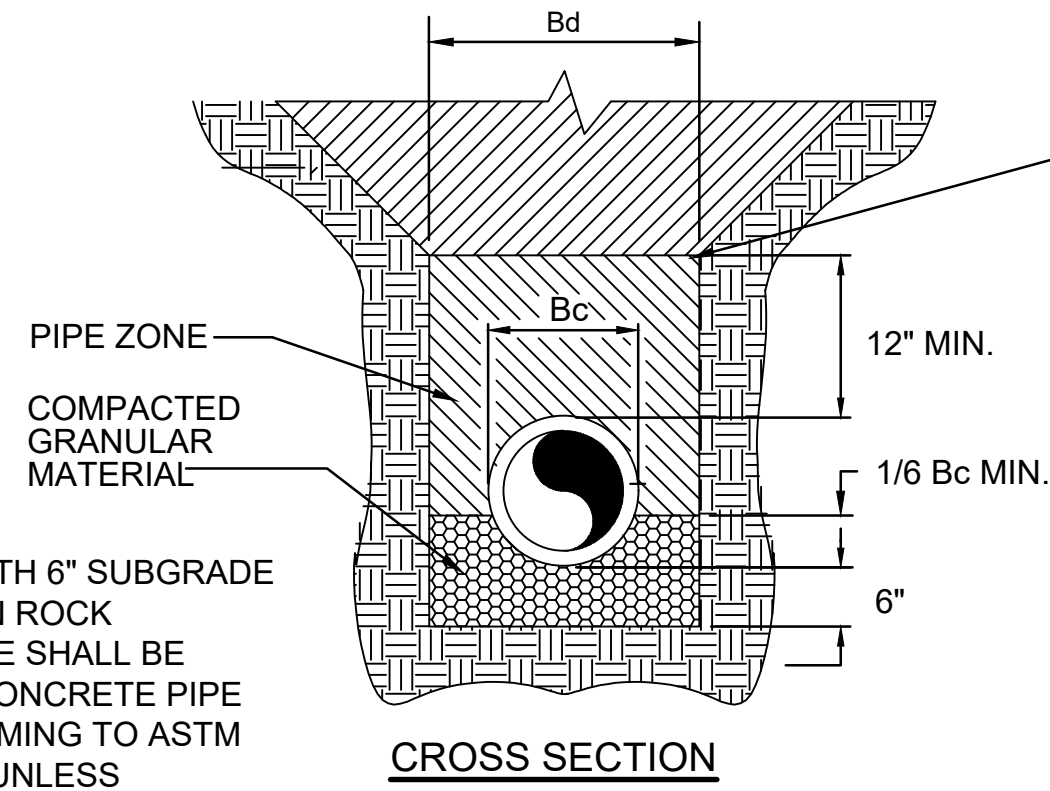
YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.





### 1 TAXIWAY PAVEMENT SECTION

SCALE: NOT TO SCALE



CLASS 2 OR 3 BACKFILL TO BE PLACED IN LAYERS 8" MAX COMPACTED DEPTH COMPACTED TO A DENSITY REQUIRED BY SPECIFICATIONS.

Bd SHALL NOT BE GREATER THAN Bc PLUS 2' FOR PIPES UP TO AND INCLUDING 30" AND 3' FOR PIPES GREATER THAN 30" TO PERMIT SATISFACTORY JOINING AND TAMPING OF BEDDING MATERIAL UNDER AND AROUND PIPES.

Bd = WIDTH TRENCH  
Bc = PIPE DIAMETER

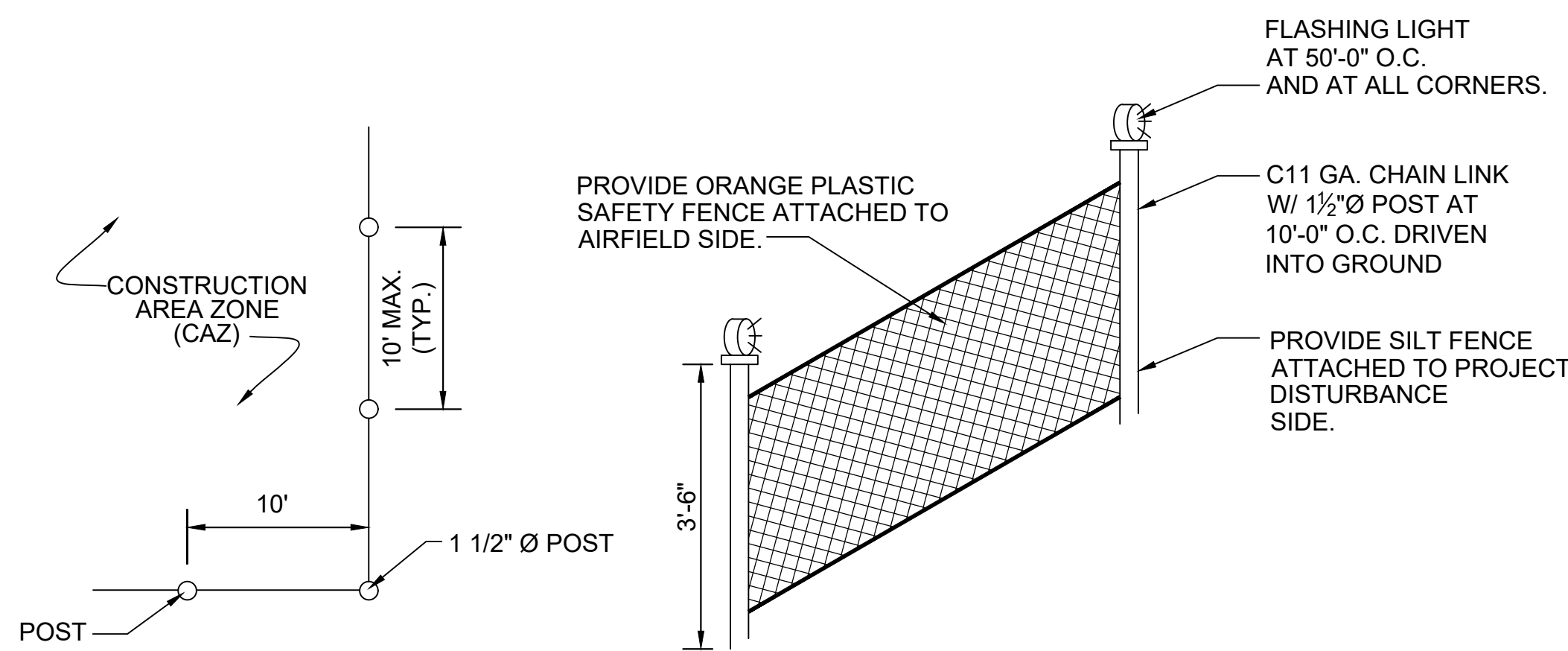
Bd = Bc + 24" FOR PIPE DIA. < 24"  
Bd = Bc + 36" FOR PIPE DIA > 24"

#### NOTES:

- TO BE USED WITH 6" SUBGRADE DRAIN STUBS IN ROCK
- ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP), CONFORMING TO ASTM C-76 CLASS III, UNLESS OTHERWISE NOTED.

### 2 STORM PIPE BEDDING

SCALE: NOT TO SCALE

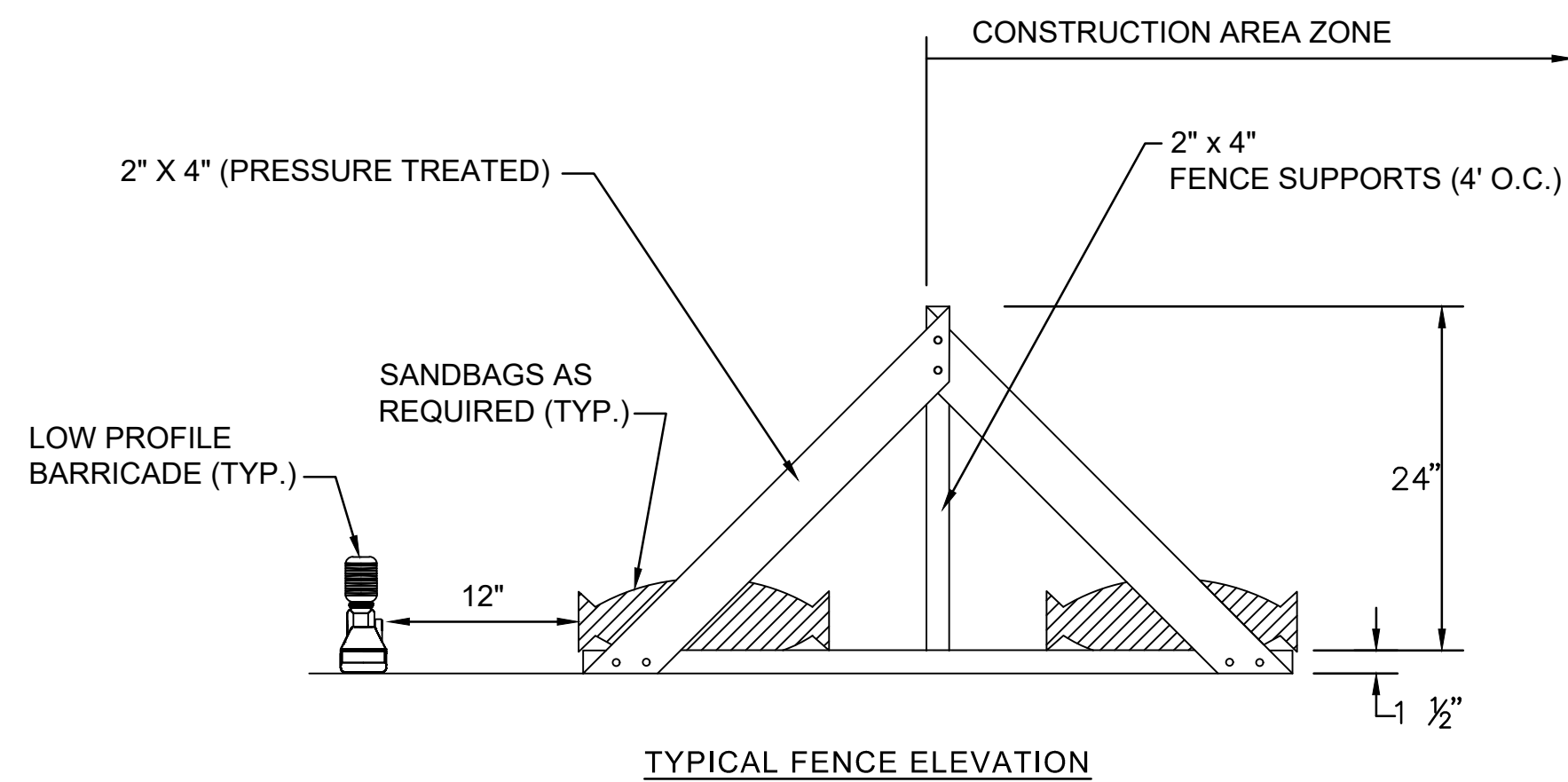


#### GENERAL NOTES:

- IN UNPAVED AREAS, POSTS SHALL BE SPACED AT 10' MAXIMUM INTERVALS ALONG THE FENCE.
- THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION AREA ZONE FENCING FROM EXCAVATION THRU STABILIZATION. ALL MATERIALS USED IN THE FENCE SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE DISPOSED OF OFF THE GOVERNMENT PREMISES.
- FLASHING AMBER-YELLOW LIGHTS SHALL HAVE AT LEAST 5 CANDELAS EFFECTIVE INTENSITY AND FLASH AT A RATE OF 55 TO 75 FLASHES PER MINUTE.

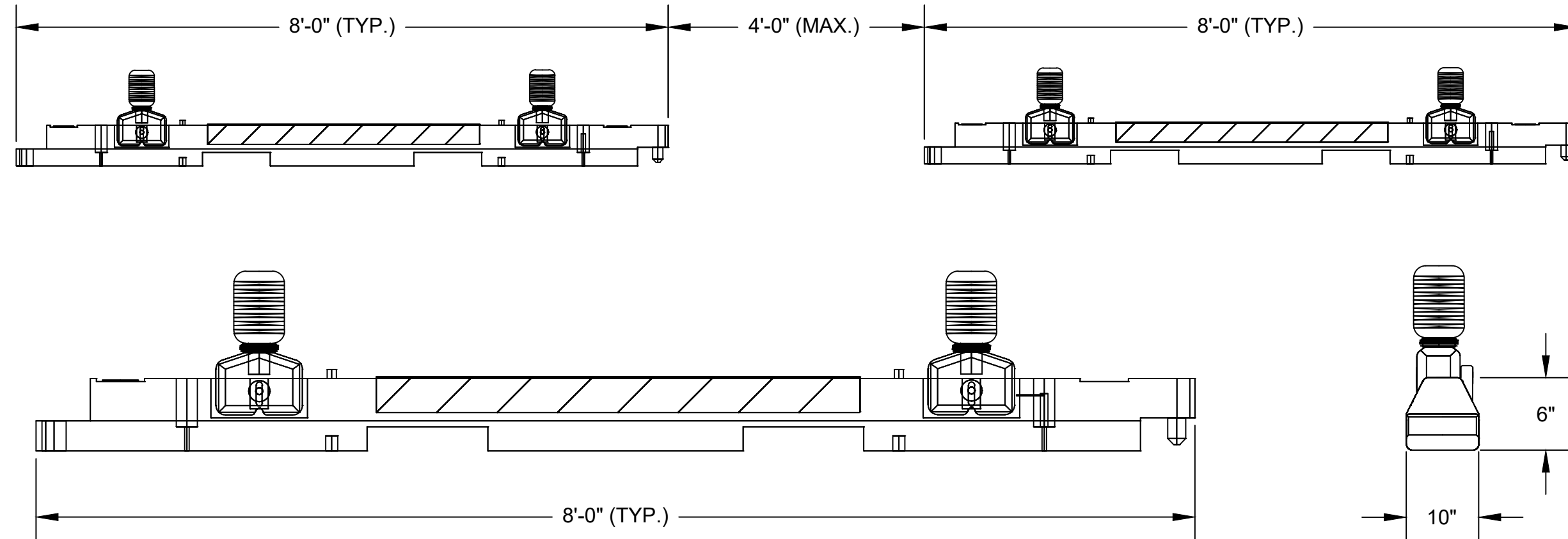
### 3 UNPAVED AREA - CONSTRUCTION / FOD FENCE

SCALE: NOT TO SCALE



### 4 PAVED AREA - EQUIPMENT STAGING FOD FENCE

SCALE: NOT TO SCALE

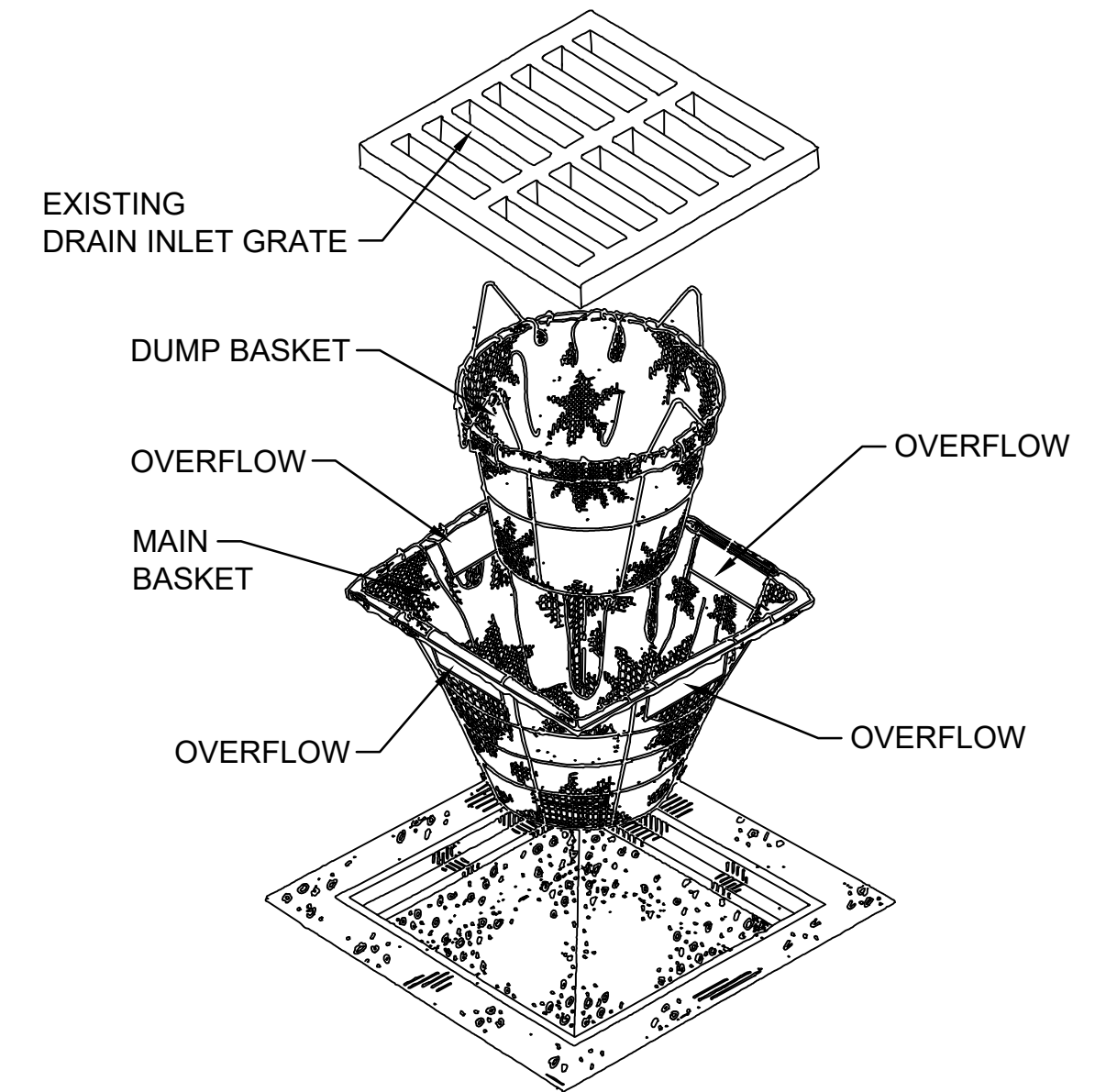


### 5 LOW PROFILE BARRICADE

SCALE: NOT TO SCALE

#### BARRICADE NOTES

- BARRICADE SHALL BE MODEL AR 10" X 96" 0 V.2 HDPE LOW PROFILE AIRPORT BARRIER, AS SHOWN, OR APPROVED EQUAL.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE REFLECTIVE WITH SMOOTH SURFACE TYPE REFLECTIVE SHEETING.
- FLASHING RED CAUTION LIGHTS SHALL BE BATTERY OR SOLAR OPERATED AND SHALL MAINTAIN SUCH INTENSITY SO AS TO BE READILY IDENTIFIED FROM DISTANCES OF AT LEAST 200 FEET DURING DARKNESS.
- IF FLAGS ARE USED ON BARRICADE, FLAGS SHALL ALTERNATE ORANGE AND WHITE FROM ONE BARRICADE TO THE NEXT. INSTALL FLAG AND STAFF TO ENSURE THAT THE FLAG WILL REMAIN EXTENDED AT ALL TIMES.
- BARRICADES SHALL BE IN COMPLIANCE WITH AC 150/5370-2E.
- INSTALLED BARRICADES SHALL BE FILLED WITH WATER AFTER PLACEMENT. DURING SUB-FREEZING TEMPERATURES, BARRICADES SHALL BE FILLED WITH POTASSIUM ACETATE OR CALCIUM CHLORIDE
- BARRICADES SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE GOVERNMENT AND AS REQUIRED BY THE CONTRACTOR TO PROTECT THE WORK AREA. THE PHASE DURING WHICH EACH BARRICADE IS TO REMAIN IN PLACE IS INDICATED BY THE PHASING DRAWINGS. BARRICADES SHALL BE INSTALLED AT THE BEGINNING OF EACH PHASE AND SHALL REMAIN IN PLACE THROUGHOUT THE PHASE. IF THE CONTRACTOR MUST TEMPORARILY REMOVE ANY OF THE BARRICADES (TO ALLOW CONSTRUCTION TRAFFIC TO TRAVEL INTO OR OUT OF THE CONSTRUCTION AREA, OR TO COMPLETE CONSTRUCTION AT THE PHASE BOUNDARY), THE CONTRACTOR SHALL PROVIDE A FLAGMAN TO PREVENT AIRCRAFT OR VEHICLE TRAFFIC FROM INADVERTENTLY TRAVELING INTO THE CONSTRUCTION AREA UNTIL THE BARRICADE IS REPLACED AT ITS ORIGINAL POSITION.
- LOW PROFILE BARRICADES SHALL CONFORM TO FAA ADVISORY CIRCULARS 150/5340-1 AND 150/5370-2, LATEST EDITIONS. BARRICADE SEGMENTS MAY BE LOCKED CONTINUALLY OR OPTIONALLY SPACED WITH A 4' MAX. GAP, UNLESS OTHERWISE SPECIFIED BY THE GOVERNMENT. INTERNAL WATER BALLAST SHALL PROVIDE ADEQUATE STABILIZATION TO PREVENT MOVEMENT FROM JET OR PROP BLAST.
- ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED AND THE BARRICADE LINE SHALL EXTEND TO THE EDGES OF PAVEMENT OR AS DIRECTED BY THE GOVERNMENT.
- IN ADDITION TO THE REQUIREMENTS FOR TAXIWAY CROSSINGS, BARRICADES SHALL BE SPACED AT 50' FOR DELINEATION OF ALL CONSTRUCTION WORK AND OPEN EXCAVATIONS WITHIN THE 200' PERMANENT TAXIWAY CLEAR ZONE AND THE 1,000' RUNWAY CLEAR ZONE.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTENANCE OF BARRICADES INCLUDING LIGHTS DURING CONSTRUCTION. ALL LIGHTS SHALL BE KEPT IN OPERABLE CONDITION. BARRICADES OR COMPONENTS SHALL BE REPLACED WHEN EXHIBITING SIGNS OF DAMAGE OR DETERIORATION.



#### NOTES:

- INLET PROTECTION SHALL BE INSTALLED PRIOR TO COMMENCING ANY DEMOLITION AND CONSTRUCTION WORKS, OR AT THE TIME ANY NEW DRAIN STRUCTURE IS SET.
- INSTALLATION: REMOVE GRATE. DROP MAIN SEDIMENT BASKET IN OPENING. PLACE DUMP BASKET WITHIN MAIN BASKET. REPLACE GRATE.
- INSPECT WEEKLY AND AFTER EACH RAIN. IF THERE IS AN ACCUMULATION OF SEDIMENT; SLIDE THE GRATE OFF THE INLET, LIFT THE DUMP BASKET OUT OF THE MAIN BASKET. EMPTY CONTENTS IN A SUITABLE LOCATION (TO BE REMOVED FROM SITE). REPLACE DUMP BASKET, REPLACE GRATE.
- AFTER APPROXIMATELY 10 DUMPS, OR AS NEEDED, EMPTY THE MAIN BASKET OF ALL ACCUMULATED SEDIMENT.
- VERIFY WATER LEVEL TO ENSURE DRAIN INLET FUNCTIONS PROPERLY, AND IS NOT BLOCKED DURING STORM EVENTS. REMOVE / DO NOT INSTALL AND NOTIFY COR / ENGINEER OF RECORD IF AREA PONDS, FLOODS, OR COULD POSE A SAFETY HAZARD TO VEHICLE TRAFFIC.

### 7 INLET SEDIMENT PROTECTION DEVICE

BASIS OF DESIGN: SEDCATCH - SQUARE GRATE (SEDCATCH ENVIRONMENTAL) OR PROVIDE APPROVED EQUIVALENT



#### GENERAL NOTES:

- WARNING SIGNS SHALL BE INSTALLED AT ANY SITE PROJECT SITE INGRESS/EGRESS POINTS, AND ALONG THE CONSTRUCTION AREA IDENTIFIED BY THE CONTRACTING OFFICER, COE MANAGER, AIRFIELD MANAGEMENT, OR MCAS BEAUFORT REPRESENTATIVE.
- WARNING SIGNS SHALL BE INSTALLED AT CENTER OF THE POST. TOP OF SIGNS SHALL BE LOCATED AT THE TIP OF THE PLASTIC FLAGGING. WARNING SIGNS SHALL BE ATTACHED TO THE POST IN PREDRILLED HOLES WITH A NUT AND BOLT.
- SIGN PANELS SHALL BE MANUFACTURED FROM STEEL OR ALUMINUM PLATE AND SHALL BE A MINIMUM THICKNESS OF 0.08 INCHES OR 14 GAUGE. PROVIDE LETTERS IN RED WITH WHITE BACKGROUND

### 6 WARNING SIGN DETAIL

SCALE: NOT TO SCALE

YOUR SIGNATURE ON THIS COVER SHEET APPROVES ALL SHEETS ASSOCIATED WITH THIS SET OF DRAWINGS.

IF SHEET IS LESS THAN (34"x22") IT IS A REDUCED PRINT; SCALE ACCORDINGLY		ISSUE DATE: APR 27, 2020	
NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO. <b>27094</b>	<b>C-502</b>	
SAFETY DEPARTMENT SATISFACTORY TO DATE	DRAWN BY <b>J. BARNES</b>	DEPARTMENT OF THE NAVY <b>MARINE CORPS AIR STATION</b> BEAUFORT, S.C.	
FIRE DEPARTMENT SATISFACTORY TO DATE	CHECKED BY <b>D. FARLEY</b>	AIRFIELD STORMWATER REPAIRS (BE2004M)	
PHYSICAL SECURITY SATISFACTORY TO DATE	SUPERVISOR <b>S. THOMAS</b>	EROSION CONTROL AND SITE DETAILS	
PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE	APPROVED DATE	SIZE <b>F</b>	CODE IDENT. NO.
	PUBLIC WORKS OFFICER	HQMC PROJ. NO.: BE2004M	CONSTR. CONTR. NO.: N40085-18-D-0616
		SCALE: AS NOTED	MACC. T.O. #
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