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SHEET NUMBER	NAVFAC DRAWING NO.	SHEET NAME
LANDSCAPE		
L-101	12794276	LANDSCAPE - SITE PLAN - OVERALL SITE
L-401	12794277	LANDSCAPE - ENLARGEMENT - MAIN ENTRANCE
L-501	12794278	LANDSCAPE - FINISHES & DETAILS - SECTIONS
L-502	12794279	LANDSCAPE - DETAILS & SITE FURNISHINGS
LP101	12794280	LANDSCAPE - PLANTING PLAN - DRIVE & BMP
LP102	12794281	LANDSCAPE - PLANTING PLAN - MAIN BUILDING
LP601	12794282	LANDSCAPE - PLANTING SCHEDULE & DETAILS
STRUCTURAL		
S-001	12794283	GENERAL NOTES AND PLAN LEGEND
S-002	12794284	STRUCTURAL STANDARD DETAILS
S-003	12794285	STRUCTURAL STANDARD DETAILS
S-101	12794286	FOUNDATION AND GROUND FLOOR PLAN - OVERALL
S-102	12794287	FOUNDATION AND GROUND FLOOR PLAN - AREA A
S-103	12794288	FOUNDATION AND GROUND FLOOR PLAN - AREA B
S-501	12794289	STRUCTURAL SECTIONS & DETAILS
ARCHITECTURE		
A-001	12794290	ARCHITECTURAL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES
A-002	12794291	AIR BARRIER DIAGRAMS
A-003	12794292	ARCHITECTURAL SITE PLAN
A-100	12794293	FOUNDATION DRAINAGE PLAN
A-101	12794294	OVERALL FLOOR PLAN
A-102	12794295	FLOOR PLAN - AREA "A"
A-103	12794296	FLOOR PLAN - AREA "B"
A-104	12794297	OVERALL REFLECTED CEILING PLAN
A-105	12794298	REFLECTED CEILING PLAN - AREA "A"
A-106	12794299	REFLECTED CEILING PLAN - AREA "B"
A-107	12794300	ROOF PLAN
A-108	12794301	GYPSUM CEILING LOCATION PLAN
A-201	12794302	NORTH AND SOUTH ELEVATIONS
A-202	12794303	EAST AND WEST ELEVATIONS
A-301	12794304	BUILDING SECTIONS
A-302	12794305	BUILDING SECTIONS
A-310	12794306	WALL SECTIONS
A-311	12794307	WALL SECTIONS
A-312	12794308	WALL SECTIONS
A-313	12794309	WALL SECTION DETAILS
A-314	12794310	WALL SECTION DETAILS
A-315	12794311	WALL SECTIONS AND DETAILS
A-316	12794312	WALL SECTION DETAILS
A-317	12794313	WALL SECTION DETAILS
A-401	12794314	ENLARGED PLANS AND INTERIOR ELEVATIONS
A-402	12794315	ENLARGED PLANS AND INTERIOR ELEVATIONS
A-403	12794316	ENLARGED PLANS AND INTERIOR ELEVATIONS
A-404	12794317	ENLARGED REFLECTED CEILING PLANS AND DETAILS
A-405	12794318	TYPICAL MOUNTING HEIGHTS
A-501	12794319	EXTERIOR DETAILS
A-502	12794320	EXTERIOR DETAILS
A-503	12794321	EXTERIOR DETAILS
A-510	12794322	DETAILS
A-511	12794323	DETAILS
A-520	12794324	CEILING DETAILS
A-530	12794325	CASEWORK DETAILS
A-531	12794326	INTERIOR PARTITION SCHEDULE AND DETAILS
A-601	12794327	DOOR SCHEDULE AND DETAILS
A-602	12794328	DOOR DETAILS
A-603	12794329	WINDOW ELEVATIONS AND DETAILS
A-604	12794330	WINDOW DETAILS
A-605	12794331	PARTITION DETAILS
A-900	12794332	DUMPSTER ENCLOSURE
INTERIORS		
I-605	12794333	OVERALL FF&E PLAN
I-606	12794334	FF&E PLAN - AREA A
I-607	12794335	FF&E PLAN - AREA B
I-609	12794336	INTERIOR FINISH LEGEND
I-610	12794337	FINISH SCHEDULE
I-611	12794338	FINISH PLAN - AREA A
I-612	12794339	FINISH PLAN - AREA B
I-613	12794340	INTERIOR DETAILS
I-614	12794341	FF&E PLAN - AREA A - MODULAR WALL SYSTEM
I-615	12794342	FF&E PLAN - AREA B - MODULAR WALL SYSTEM
I-616	12794343	MODULAR WALL SYSTEM DETAILS
I-617	12794344	MODULAR WALL SYSTEM ELEVATIONS
I-618	12794345	MODULAR WALL SYSTEM ELEVATIONS
I-619	12794346	MODULAR WALL SYSTEM ELEVATIONS
I-620	12794347	MODULAR WALL SYSTEM ELEVATIONS
I-621	12794348	COLLATERAL EQUIPMENT PLAN - AREA A - RAISED ACCESS FLOOR
I-622	12794349	COLLATERAL EQUIPMENT PLAN - AREA B - RAISED ACCESS FLOOR
I-623	12794350	SIGNAGE PLAN - AREA A
I-624	12794351	SIGNAGE PLAN - AREA B
I-625	12794352	SIGNAGE DETAILS
FIRE PROTECTION		
FA001	12794353	LEGEND, ABBREVIATIONS AND NOTES
FA101	12794354	FIRE ALARM AND MASS NOTIFICATION PLAN-AREA A
FA102	12794355	FIRE ALARM AND MASS NOTIFICATION PLAN-AREA B
FA601	12794356	FIRE ALARM DIAGRAMS

SHEET NUMBER	NAVFAC DRAWING NO.	SHEET NAME
FIRE PROTECTION		
FX101	12794357	FIRST FLOOR FIRE PROTECTION PLAN-AREA A
FX102	12794358	FIRST FLOOR FIRE PROTECTION PLAN-AREA B
FX501	12794359	FIRE PROTECTION DETAILS
FX502	12794360	FIRE PROTECTION RISER DIAGRAM, SYMBOLS AND ABBREVIATIONS
PLUMBING		
P-001	12794361	LEGEND, ABBREVIATIONS AND NOTES
PL101	12794362	SANITARY AND SUPPLY FLOOR PLAN - AREA "A"
PL102	12794363	SANITARY AND SUPPLY FLOOR PLAN - AREA "B"
P-401	12794364	ENLARGED PLUMBING PLANS
P-402	12794365	ENLARGED PLUMBING PLANS
P-501	12794366	PLUMBING DETAILS
P-502	12794367	PLUMBING DETAILS
P-601	12794368	PLUMBING SCHEDULES
P-901	12794369	DOMESTIC WATER RISER
P-902	12794370	SANITARY RISER
P-903	12794371	PROPANE GAS RISER
MECHANICAL		
M-001	12794372	LEGEND, ABBREVIATIONS AND NOTES
MS101	12794373	MECHANICAL SITE PLAN
MH101	12794374	DUCTWORK FLOOR PLAN - AREA "A"
MH102	12794375	DUCTWORK FLOOR PLAN - AREA "B"
MH103	12794376	ROOF PLAN
MP101	12794377	MECHANICAL PIPING FLOOR PLAN - AREA "A"
MP102	12794378	MECHANICAL PIPING FLOOR PLAN - AREA "B"
M-301	12794379	MECHANICAL SECTION
M-401	12794380	ENLARGED MECHANICAL PLANS
M-501	12794381	MECHANICAL DETAILS
M-502	12794382	MECHANICAL DETAILS
M-503	12794383	MECHANICAL DETAILS
M-504	12794384	MECHANICAL DETAILS
M-601	12794385	MECHANICAL SCHEDULES
M-602	12794386	MECHANICAL SCHEDULES
M-603	12794387	MECHANICAL SCHEDULES
M-604	12794388	OUTSIDE AIR AND DESIGN CONDITIONS
M-701	12794389	MECHANICAL CONTROLS - CHILLED WATER
M-702	12794390	MECHANICAL CONTROLS - HEATING WATER
M-703	12794391	MECHANICAL CONTROLS - ERU
M-704	12794392	MECHANICAL CONTROLS - FCU
M-705	12794393	MECHANICAL CONTROLS - MISC
ELECTRICAL		
E-001	12794394	LEGEND, ABBREVIATIONS AND GENERAL NOTES
ES101	12794395	SITE PLAN - ELECTRICAL
EL101	12794396	FIRST FLOOR PLAN - LIGHTING - AREA A
EL102	12794397	FIRST FLOOR PLAN - LIGHTING - AREA B
EL501	12794398	LIGHTING DETAILS
EL502	12794399	LIGHTING DETAILS
EL503	12794400	LIGHTING DETAILS
EL601	12794401	LIGHTING FIXTURE & LIGHTING CONTROL STRATEGY SCHEDULES
EP101	12794402	FIRST FLOOR PLAN - POWER - AREA A
EP102	12794403	FIRST FLOOR PLAN - POWER - AREA B
EP103	12794404	FIRST FLOOR PLAN - MECHANICAL EQUIPMENT POWER - AREA A
EP104	12794405	FIRST FLOOR PLAN - MECHANICAL EQUIPMENT POWER - AREA B
EP105	12794406	FIRST FLOOR PLAN - AV EQUIPMENT POWER - AREA A
EP106	12794407	FIRST FLOOR PLAN - AV EQUIPMENT POWER - AREA B
EP401	12794408	ENLARGED PLANS
EP402	12794409	ENLARGED PLANS
EP501	12794410	POWER DETAILS
EP502	12794411	POWER DETAILS
EP503	12794412	POWER DETAILS
EP601	12794413	POWER RISER DIAGRAM
EP602	12794414	PANELBOARD SCHEDULES
EP603	12794415	PANELBOARD SCHEDULES
EP604	12794416	PANELBOARD SCHEDULES
EP605	12794417	PANELBOARD SCHEDULES
EP606	12794418	PANELBOARD SCHEDULES
ET001	12794419	TELECOMMUNICATIONS LEGEND, ABBREVIATIONS AND GENERAL NOTES
ET101	12794420	FIRST FLOOR PLAN - TELECOMMUNICATIONS - AREA A
ET102	12794421	FIRST FLOOR PLAN - TELECOMMUNICATIONS - AREA B
ET103	12794422	FIRST FLOOR PLAN - NETWORK OVERHEAD HORIZONTAL PATHWAYS - AREA A
ET104	12794423	FIRST FLOOR PLAN - NETWORK OVERHEAD HORIZONTAL PATHWAYS - AREA B
ET105	12794424	FIRST FLOOR PLAN - NETWORK BELOW FLOOR ROUTING - AREA A
ET106	12794425	FIRST FLOOR PLAN - NETWORK BELOW FLOOR ROUTING - AREA B
ET401	12794426	ENLARGED PLANS
ET501	12794427	TELECOMMUNICATIONS DETAILS
ET502	12794428	TELECOMMUNICATIONS DETAILS
ET503	12794429	TELECOMMUNICATIONS DETAILS
ET504	12794430	TELECOMMUNICATIONS DETAILS
ET601	12794431	TELECOMMUNICATIONS RISER DIAGRAMS
ET602	12794432	NETWORK CONNECTIONS SCHEDULE
EY101	12794433	FIRST FLOOR PLAN - AUXILIARY SYSTEMS - AREA A
EY102	12794434	FIRST FLOOR PLAN - AUXILIARY SYSTEMS - AREA B
EY501	12794435	AUXILIARY SYSTEMS DETAILS
EY601	12794436	AUXILIARY SYSTEMS RISER DIAGRAMS
EG101	12794437	LIGHTNING PROTECTION PLAN

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APPROVED							
FOR COMMANDER NAVFAC							
ACTIVITY							
Approved by Emily Sylvestre, Director of Installation Development Division							
SATISFACTORY TO DATE						06/19/2020	
DES	AVS	DRW	KLC	CHK	ZNK		
PM/DM				SGL/RMS			
BRANCH MANAGER						DJD	
CHIEF ENGINEER						EJA	

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MID-ATLANTIC CAMP LEBLANC - JACKSONVILLE, NC MARCOS	NAVAL FACILITIES ENGINEERING COMMAND MID-ATLANTIC CAMP LEBLANC - JACKSONVILLE, NC JACKSONVILLE, NORTH CAROLINA
P1395 MARINE RAIDER HEADQUARTERS	
LIST OF SHEETS	

SCALE: AS NOTED			
EPROJECT NO.:		1603164	
CONSTR. CONTR. NO.			
NAVFAC DRAWING NO.			
		12794221	
SHEET	2	OF	228
G-001			

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SHEET LIST		
SHEET NUMBER	NAVFAC DRAWING NO.	SHEET NAME
AUDIO/VIDEO		
TA000	12794438	AV DRAWING INDEX, SYMBOLS AND NOTES
TA100	12794439	OVERALL AV ROOM PLAN
TA101	12794440	AREA A AV FLOOR PLAN
TA102	12794441	AREA B AV FLOOR PLAN
TA201	12794442	AREA A AV REFLECTED CEILING PLAN
TA202	12794443	AREA B AV REFLECTED CEILING PLAN
TA400	12794444	OPS AREAS DISPLAY WALL ELEVATION
TA500	12794445	CONFERENCE ROOM SIGNAL FLOW LINE DIAGRAM
TA501	12794446	OPS AREAS SIGNAL FLOW LINE DIAGRAM
TA502	12794447	OFFICE/OPEN AREAS SIGNAL FLOW LINE DIAGRAM

DRAWFORM REVISION: 17 APRIL 2018

SHEET 3 OF 228

NAVFAC DRAWING NO.
12794222

CONSTR. CONTR. NO.

EPROJECT NO.: 1603164

SCALE: AS NOTED

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MIDLANT CORE CI
MARSOC
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
CAMP LEJEUNE - JACKSONVILLE, NC
JACKSONVILLE, NORTH CAROLINA
P1395 MARINE RAIDER HEADQUARTERS
LIST OF SHEETS

FIRE PROTECTION
EJA

CHIEF ENGINEER
EJA

BRANCH MANAGER
DJD

PMOM
SGL/RMS

SATISFACTORY TO DATE
06/19/2020

Approved by Emily Sylvester, Director of
Installation Development Division

ACTIVITY

FOR COMMANDER NAVFAC

APPROVED

AV INFO

440 S. CHURCH STREET, SUITE 1000
CHARLOTTE, NC 28202
TEL (704)338-8700

SEAL

OMAHA, NEBRASKA

CERT. NO.
80019

REGISTERED ARCHITECTURAL CORPORATION

NON-ARCHITECTURE, INC.

NAVIFAC

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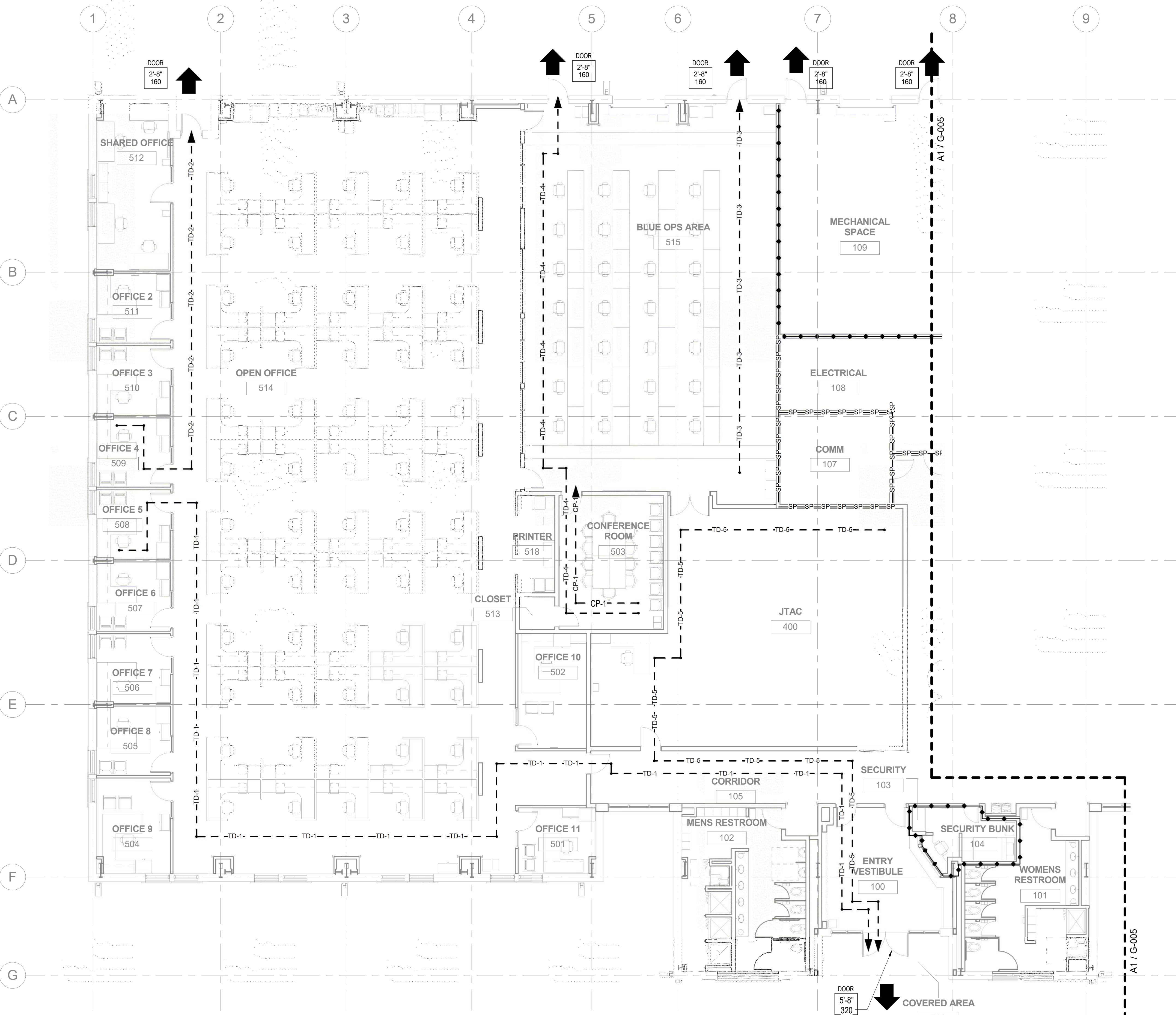
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FACILITY DESCRIPTION	
P-1395 SOF MARINE RAIDER REGIMENT HQ	
CODE ANALYSIS	
REFERENCED CODES AND STANDARDS	
UNIFIED FACILITIES CRITERIA (UFC)	
UFC 1-200-01, GENERAL BUILDING REQUIREMENTS, 20 JUN 2016, CHANGE 2, 01 NOV 2018.	
UFC 1-300-02, UNIFIED FACILITIES GUIDE SPECIFICATIONS (UFGS) FORMAT STANDARD, CHANGE 2, 1 APRIL 2019.	
UFC 1-300-9N (15 MAY 2014 INCLUDING CHANGE 4, 14 JUN 2018) DESIGN PROCEDURES.	
UFC 3-220-01, GEOTECHNICAL ENGINEERING, 1 NOVEMBER 2012	
UFC 3-230-01, WATER STORAGE, DISTRIBUTION AND TRANSMISSION, 1 SEP 2018, CHANGE 1, 1 OCT 2018.	
UFC 3-520-01, INTERIOR ELECTRICAL SYSTEMS, 6 OCTOBER 2015	
UFC 3-600-01, FIRE PROTECTION ENGINEERING FOR FACILITIES, 7 FEB 2020.	
UFC 3-601-02, OPERATION AND MAINTENANCE: INSPECTION, TESTING AND MAINTENANCE OF FIRE PROTECTION SYSTEMS, 8 SEP 2010.	
UFC 4-010-01, DOD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS, 12 DEC 2018	
UFC 4-021-01, DESIGN AND O&M MASS NOTIFICATION SYSTEMS, 9 APR 2008, CHANGE 1, JANUARY 2010.	
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)	
NFPA 1, FIRE CODE, 2015 EDITION.	
NFPA 13, STANDARD FOR THE INSTALLATION OF AUTOMATIC SPRINKLERS, 2019 EDITION.	
NFPA 24, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, 2019 EDITION	
NFPA 70, NATIONAL ELECTRIC CODE, 2017 EDITION	
NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, 2019 EDITION.	
NFPA 80, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES, 2019 EDITION	
NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATION SYSTEMS, 2018 EDITION.	
NFPA 101, LIFE SAFETY CODE, 2018 EDITION.	
NFPA 170, STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS, 2018 EDITION	
NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION. ALTERATION, AND DEMOLITION OPERATIONS, 2019 EDITION	
NFPA 291, RECOMMEND PRACTICE FOR FIRE FLOW TESTING AND MARKING OF HYDRANTS, 2019 EDITION	
OTHER REFERENCES	
INTERNATIONAL CODE COUNCIL, INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION. (AS AMENDED BY UFC 1-200-01)	
ARCHITECTURAL BARRIERS ACT (ABA), 2015 EDITION	
BUILDING OCCUPANCY CLASSIFICATION	
• IBC OCCUPANCY CLASSIFICATIONS - MIXED USE AND OCCUPANCY - NON-SEPARATED OCCUPANCY	
ASSEMBLY A-3	
GROUP B	
IBC § 508.3	
IBC § 303 (ASSEMBLY)	
IBC § 304 (BUSINESS)	
• NFPA OCCUPANCY CLASSIFICATIONS - MIXED OCCUPANCIES - NON-SEPARATED OCCUPANCY	
NEW ASSEMBLY	
NEW BUSINESS	
NFPA 101 § 6.1.14.3	
NFPA CHAPTER 12	
NFPA CHAPTER 38	
BUILDING DESCRIPTION - PROVIDED	
• TYPE IIB CONSTRUCTION (IBC)	
IBC § 602 & TABLE 601	
• TOTAL BUILDING AREA: 30,000 SQ.FT.	
IBC § 502 BUILDING AREA DEFINITION	
• BUILDING HEIGHT AND STORIES: 25FT. 10IN. AND 1 STORIES	
IBC § 502 BUILDING HEIGHT DEFINITION	
• BUILDING IS FULLY PROTECTED WITH AN AUTOMATIC SPRINKLER SYSTEM	
ALLOWABLE IBC BUILDING HEIGHT AND FLOOR AREA:	
• ALLOWABLE GROSS SQUARE FEET OF BUILDING: 38,000 SQ.FT. MIXED USE	
IBC §506.2.2	
• ALLOWABLE HEIGHT: 75 FEET AND 3 STORIES FOR FULLY SPRINKLED A-3 BUILDING	
IBC §504.1 TABLE 504.3/504.4	
FIRE RESISTANCE REQUIREMENTS	
IBC STRUCTURAL ELEMENTS:	
• STRUCTURAL FRAME (INCLUDING COLUMNS, GIRDERS, AND TRUSSES)	
0 HOUR	
• BEARING WALLS - EXTERIOR SEPARATION DISTANCE >30'	
0 HOUR	
• BEARING WALLS - INTERIOR	
0 HOUR	
• NONBEARING WALLS - EXTERIOR SEPARATION DISTANCE >30'	
0 HOUR	
• NONBEARING WALLS & PARTITIONS - INTERIOR	
0 HOUR (NOTE 1)	
• FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	
0 HOUR	
• ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	
0 HOUR	
NFPA 101 EXIT ACCESS CORRIDORS:	
• CORRIDORS PROVIDING ACCESS TO AN EXIT: NO RATING REQUIRED IN FULLY SPRINKLERED BUILDINGS	
NFPA 101 § 7.1.3.1 (2), 12.3.6 (2), 38.3.6.1 (3)	
PROTECTION FROM HAZARDS	
• SMOKE PARTITION REQUIRED FOR GENERAL STORAGE, BOILER, OR FURNACE ROOMS	
NFPA 101 §8.7.1.1, 8.7.1.2 , 38.3.2.1	
REQUIRED FIRE DAMPERS IN RATED WALLS	
• FIRE DAMPERS NOT REQUIRED FOR FULLY DUCTED HVAC IN 1-HOUR FIRE RATED BARRIERS.	
NFPA 90A § 5.3.1.1	
• FIRE DAMPERS REQUIRED FOR AIR TRANSFER GRILLES.	
INTERIOR WALL, CEILING, AND FLOOR FINISHES: NFPA 101 CHAPTER 10 TABLE A.10.2.2	
WITH SPRINKLER SYSTEM	
GROUP	
EXITS	
EXIT ACCESS CORRIDORS	
ROOMS AND ENCLOSED SPACES	
INTERIOR FINISH FLOOR	
ASSEMBLY	
A	
A OR B	
A, B, OR C	
CLASS I OR II	
BUSINESS	
A OR B	
A OR B	
A, B, OR C	
CLASS I OR II	
MEANS OF EGRESS REQUIRED: SEE LIFE SAFETY PLANS FOR EGRESS PROVIDED	
MINIMUM NUMBER OF MEANS OF EGRESS	
• OCCUPANT LOAD 1-500: NOT LESS THAN 2 MEANS OF EGRESS REQUIRED	
NFPA 101 § 7.4.1.1	
TRAVEL DISTANCE TO AN EXIT	
• ASSEMBLY, SPRINKLERED: 250 FEET	
NFPA 101 § 12.2.6.2 (1)	
• BUSINESS, SPRINKLERED: 300 FEET	
NFPA 101 § 38.2.6.3	
COMMON PATH OF TRAVEL	
• ASSEMBLY, SPRINKLERED: 50 OR LESS OCCUPANTS 75FT, GREATER THAN 50 OCCUPANTS 20FT	
NFPA 101 § 12.2.5.1.2	
• BUSINESS, SPRINKLERED: 100 FEET	
NFPA 101 § 38.2.5.3.1	
DEAD-END LIMITS	
• ASSEMBLY, SPRINKLERED: 20 FEET	
NFPA 101 § 12.2.5.1.3	
• BUSINESS, SPRINKLERED: 50 FEET	
NFPA 101 § 38.2.5.2.1	
RE MOTENESS OF EXITS	
• MINIMUM DISTANCE SEPARATION BETWEEN EXITS AND EXIT ACCESS DOORS SHALL BE NOT LESS THAN 1/3RD THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED.	
NFPA 101 § 7.5.1.3.3	
MINIMUM WIDTH	
• NOT LESS THAN 36" FOR ANY MEANS OF EGRESS	
NFPA 101 § 7.3.4.1 (2)	
• NOT LESS THAN 44" FOR ALL CORRIDORS SERVING MORE THAN 50 ASSEMBLY OCCUPANTS	
NFPA 101 § 12.2.3.8	
• NOT LESS THAN 32" FOR DOOR CLEAR WIDTH	
NFPA 101 § 7.2.1.2.3.2	
• DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHERE SERVING 50 OR MORE PERSONS.	
NFPA 101 § 7.2.1.4.2 (1)	
ILLUMINATION OF MEANS OF EGRESS	
• MINIMUM ILLUMINATION FOR FLOORS AND OTHER WALKING SURFACES SHALL BE AT LEAST 1FT. CANDLE	
NFPA 101 § 7.8.1.3 (2)	
MARKING MEANS OF EGRESS	
• EXITS OTHER THAN MAIN EXTERIOR EXIT DOORS THAT ARE OBVIOUSLY AND CLEARLY IDENTIFIED AS EXITS, SHALL BE MARKED BY APPROVED SIGNS	
NFPA 101 § 7.10.1.2.1	
• ACCESS TO EXITS SHALL BE MARKED BY APPROVED, READILY VISIBLE SIGNS IN ALL CASES WHERE THE EXIT OR WAY TO REACH EXIT IS NOT READILY APPARENT TO OCCUPANTS	
NFPA 101 § 7.10.1.5.1	
• A SIGN WITH DIRECTIONAL INDICATOR SHOWING DIRECTION OF TRAVEL SHALL BE PLACED IN EVERY LOCATION WHERE DIRECTION OF TRAVEL TO REACH THE NEAREST EXIT IS NOT APPARENT	
NFPA 101 § 7.10.2.1	
• EVERY EXIT OR DIRECTIONAL SIGN SHALL BE ILLUMINATED BY A RELIABLE LIGHT SOURCE	
NFPA 101 § 7.10.5.1	
ACCESSIBLE MEANS OF EGRESS	
• PER UFC 1-200-01 §2-10 AND 2-11, DELETE CHAPTER	

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A1 FIRST FLOOR LIFE SAFETY PLAN - AREA A
1/8" = 1'-0"



LIFE SAFETY NOTES:
1. FOR EXIT LIGHTS AND EMERGENCY LIGHTING, SEE ELECTRICAL LIGHTING DRAWINGS (E SERIES).

LIFE SAFETY SYMBOLS:
EXIT DOOR TAG
A CLEAR DOOR WIDTH (FEET - INCHES)
B OCCUPANT LOAD CAPACITY (NO. OF PEOPLE)

LINE TYPES FOR MEANS OF EGRESS:
COMPONENT SYMBOL
TRAVEL DISTANCE - - - - TD - - - -
COMMON PATH - - - - CP - - - -

EXIT DISCHARGE
EXIT DISCHARGE ARROW

WALL RATING LEGEND
1 HOUR FIRE BARRIER
SMOKE PARTITION

MEANS OF EGRESS ARRANGEMENT DISTANCE SCHEDULE - BUILDING SUMMARY

EGRESS PATH ID	PROVIDED	MAXIMUM PERMITTED
CP-1	27' - 6"	100' - 0"
TD-1	212' - 6"	300' - 0"
TD-2	69' - 6"	300' - 0"
TD-3	57' - 0"	300' - 0"
TD-4	96' - 0"	300' - 0"
TD-5	140' - 6"	300' - 0"
TD-8	149' - 0"	300' - 0"

MEANS OF EGRESS WIDTH CAPACITY PROVIDED EGRESS CAPACITY - LEVEL COMPONENTS & RAMPS

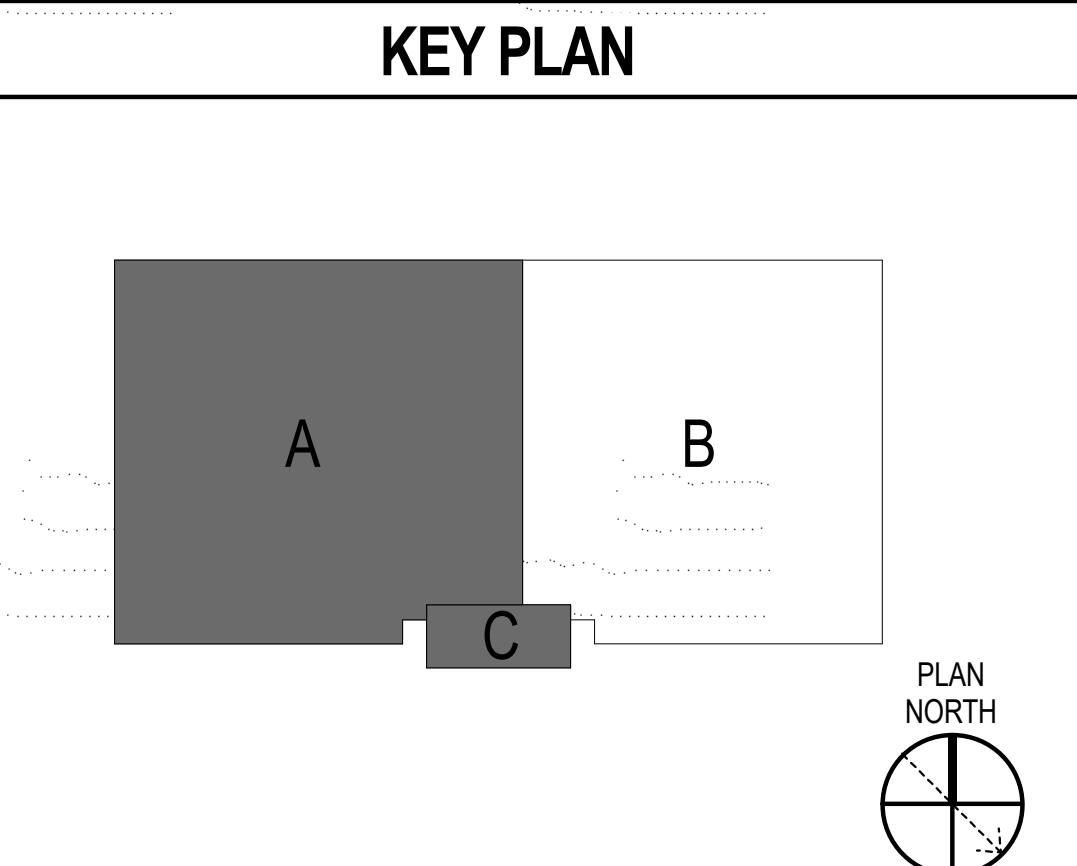
EXIT ID	EGRESS CAPACITY FACTOR	CLEAR WIDTH	OCCUPANT LOAD CAPACITY
100A	0.2	5' - 8"	320
109B	0.2	2' - 8"	160
109D	0.2	2' - 8"	160
110	0.2	2' - 8"	160
514	0.2	2' - 8"	160
515B	0.2	2' - 8"	160
515C	0.2	2' - 8"	160

BLUE OPERATIONS OCCUPANT LOAD SCHEDULE

OCCUPANT USE TYPE	AREA (SQ FT)	OCCUPANT LOAD FACTOR (SF/PERSON)	OCCUPANT LOAD
ASSEMBLY	2253	15	151
BUSINESS	3456	150	24
BUSINESS (CONCENTRATED)	6162	50	124
CONFERENCE	356	15	24
RECEPTIONIST	86	15	6

COMMON AREA OCCUPANT LOAD SCHEDULE

OCCUPANT USE TYPE	AREA (SQ FT)	OCCUPANT LOAD FACTOR (SF/PERSON)	OCCUPANT LOAD
BUSINESS	2625	150	54
IT/COMM	231	300	1
MECH/ELEC	1236	500	3



APPROVED	DATE	APPR
FOR COMMANDER NAVFAC		
ACTIVITY		
Approved by Emily Sylvester, Director of Installation Development Division		
SATISFACTORY TO DATE	06/19/2020	
DES	AJS	DRW
TRF	CHK	ZJS
PMOM	SGLRMS	
BRANCH MANAGER	DSN	
CHIEF ENGINEER	EJA	
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND	MID-ATLANTIC	
NAVAL FACILITIES ENGINEERING COMMAND	CAMP LEJEUNE - JACKSONVILLE, NC	
MARSOC	JACKSONVILLE, NORTH CAROLINA	
P1395 MARINE RAIDER HEADQUARTERS		
LIFE SAFETY PLAN-AREA A		
SCALE: AS NOTED		
PROJECT NO.:	1603164	
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.	12794224	
SHEET	5	OF 228
G-004		
DRAWING REVISION: 17 APRIL 2018		

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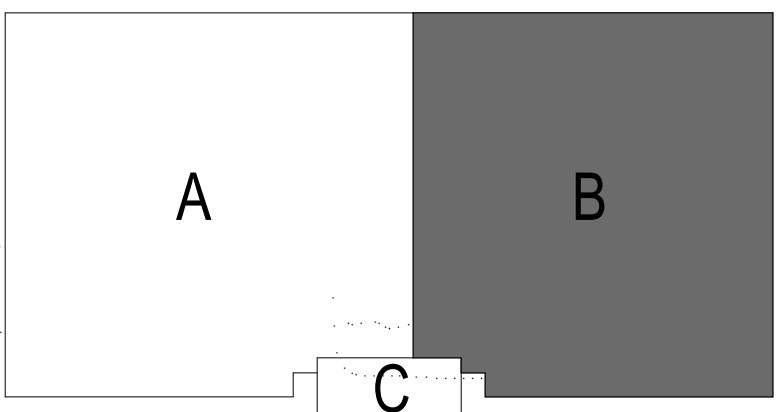
FIRST FLOOR LIFE SAFETY PLAN - AREA B

1/8" = 1'-0"

0 4' 8' 16'



KEY PLAN

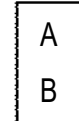


LIFE SAFETY NOTES:

1. FOR EXIT LIGHTS AND EMERGENCY LIGHTING, SEE ELECTRICAL LIGHTING DRAWINGS (E SERIES).

LIFE SAFETY SYMBOLS:

EXIT DOOR TAG



CLEAR DOOR WIDTH (FEET - INCHES)

OCCUPANT LOAD CAPACITY [NO. OF PEOPLE]

LINE TYPES FOR MEANS OF EGRESS:

COMPONENT

TRAVEL DISTANCE

COMMON PATH

SYMBOL

TD

CP

EXIT DISCHARGE

EXIT DISCHARGE ARROW



WALL RATING LEGEND

1 HOUR FIRE BARRIER

SMOKE PARTITION

MEANS OF EGRESS ARRANGEMENT DISTANCE SCHEDULE - BUILDING SUMMARY

EGRESS PATH ID	EGRESS DISTANCE	
	PROVIDED	MAXIMUM PERMITTED
CP-2	35' - 6"	100' - 0"
CP-3	36' - 0"	100' - 0"
TD-6	105' - 6"	300' - 0"
TD-7	112' - 0"	300' - 0"
TD-8	149' - 0"	300' - 0"

MEANS OF EGRESS WIDTH CAPACITY

PROVIDED EGRESS CAPACITY - LEVEL COMPONENTS & RAMPS

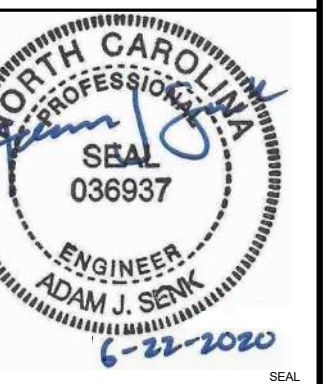
EXIT ID	EGRESS CAPACITY FACTOR	CLEAR WIDTH	OCCUPANT LOAD CAPACITY
100A	0.2	5' - 8"	320
110	0.2	2' - 8"	160
215A	0.2	2' - 8"	160
310A	0.2	2' - 8"	160

PURPLE OPERATIONS OCCUPANT LOAD SCHEDULE

OCCUPANT USE TYPE	AREA (SQ FT)	OCCUPANT LOAD FACTOR (SF/PERSON)	OCCUPANT LOAD
BUSINESS	1602	150	11
BUSINESS (CONCENTRATED)	2509	50	51
CONFERENCE	422	15	29

GREEN OPERATIONS OCCUPANT LOAD SCHEDULE

OCCUPANT USE TYPE	AREA (SQ FT)	OCCUPANT LOAD FACTOR (SF/PERSON)	OCCUPANT LOAD
BUSINESS	2447	150	17
BUSINESS (CONCENTRATED)	4320	50	87
CONFERENCE	641	15	43
RECEPTIONIST	274	15	19



440 S. CHURCH STREET, SUITE 1000
CHARLOTTE, NC 28202
TEL: (704) 338-6700

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by Emily Sylvester, Director of Installation Development Division

SATISFACTORY TO DATE: 06/19/2020

DES: AJS DRW: TRF CHK: ZJS

PMOM: SGL/RMS

BRANCH MANAGER: DSN

CHIEF ENGINEER: EJA

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND

DEPARTMENT OF THE NAVY

MID-ATLANTIC

CAMP LEJEUNE - JACKSONVILLE, NC

MARSOC

JACKSONVILLE NORTH CAROLINA

P1395 MARINE RAIDER HEADQUARTERS

LIFE SAFETY PLAN-AREA B

SCALE: AS NOTED

PROJECT NO.: 1603164

CONSTR. CONTR. NO.

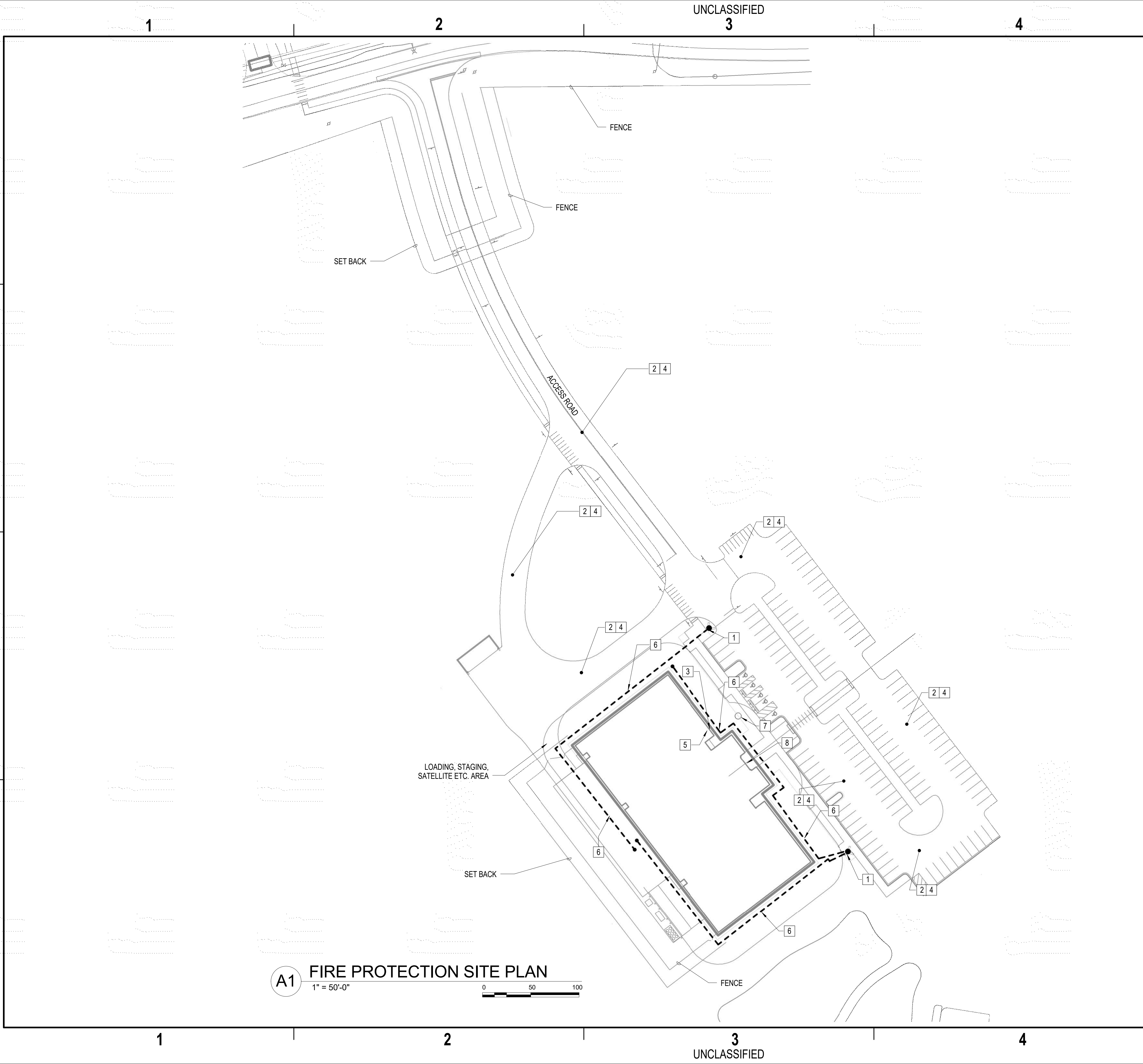
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SHEET 6 OF 228

G-005

DRAWING REVISION: 17 APRIL 2018

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A1 FIRE PROTECTION SITE PLAN
1" = 50'-0"



GENERAL NOTES

1. A FRONTAGE INCREASE FOR ADDITIONAL ALLOWABLE BUILDING SQUARE FOOTAGE NOT APPLIED.

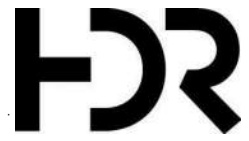
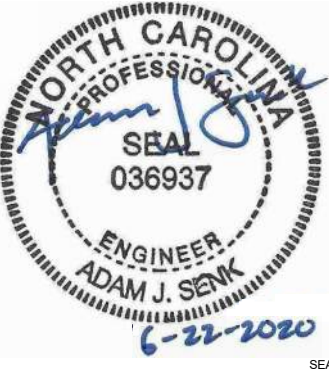
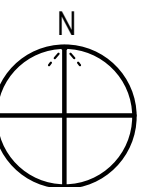
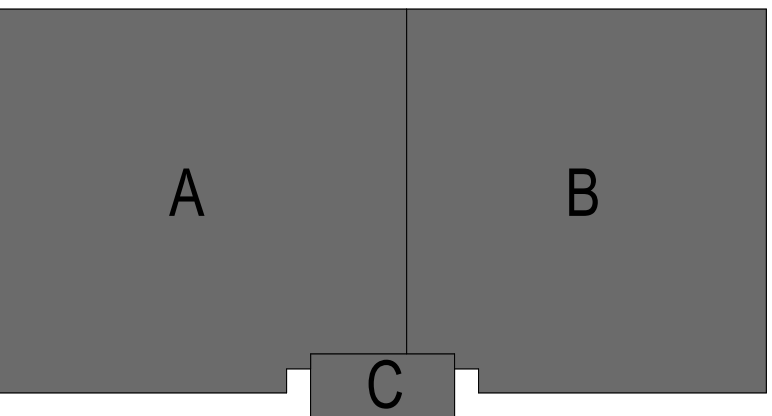
LEGEND

- HOSE PULL
- HYDRANT

KEYNOTES

1. ALL PARTS OF BUILDING EXTERIOR WITHIN 350 FT OF A FIRE HYDRANT AS REQUIRED UFC 3-600-01 PARA. 9-3.5.8.2.
2. ALL WEATHER GROUND ACCESS SHALL BE PROVIDED FOR EMERGENCY VEHICLES PER UFC 3-600-01 PARA 9-1.1.
3. FIRE DEPARTMENT CONNECTION PROVIDED WITHIN 150 FT OF A FIRE HYDRANT AS REQUIRED BY UFC 3-600-01 PARA. 3-7.3.3.
4. PER UFC 3-600-01 PARA 2-10.2. DIMENSIONS OF FIRE LANES AND TURNAROUNDS SHALL COMPLY WITH NFPA 1, FIRE CODE, FIRE DEPARTMENT ACCESS ROAD WITH UNOBSTRUCTED WIDTH IS NOT LESS THAN 20 FT AS REQUIRED PER 2018 NFPA 1 SECTION 18.2.3.5.1.1.
5. FIRE ALARM/SPRINKLER RISER ROOM.
6. FIRE HOSE PULL 350 FT.
7. FIRE SPRINKLER WATER SUPPLY SHUT OFF BURIED RESILIENT SEATED 8" GATE VALVE.
8. FIRE DEPARTMENT MAIN ENTRANCE TO BUILDING.

KEY PLAN



440 S. CHURCH STREET, SUITE 1000
CHARLOTTE, NC 28202
TEL: (704) 338-6700

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by Emily Sylvester, Director of
Installation Development Division

SATISFACTORY TO DATE 06/19/2020

DES: AJS DRW: TRF CHK: ZJS

PMOM: SGL/RMS

BRANCH MANAGER: DSN

CHIEF ENGINEER: EJA

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
CAMP LEJEUNE - JACKSONVILLE, NC
MIDLAND CI CORE
MARSOC
JACKSONVILLE, NORTH CAROLINA
P1395 MARINE RAIDER HEADQUARTERS
CODE COMPLIANCE SITE PLAN

SCALE: AS NOTED

PROJECT NO.: 1603164

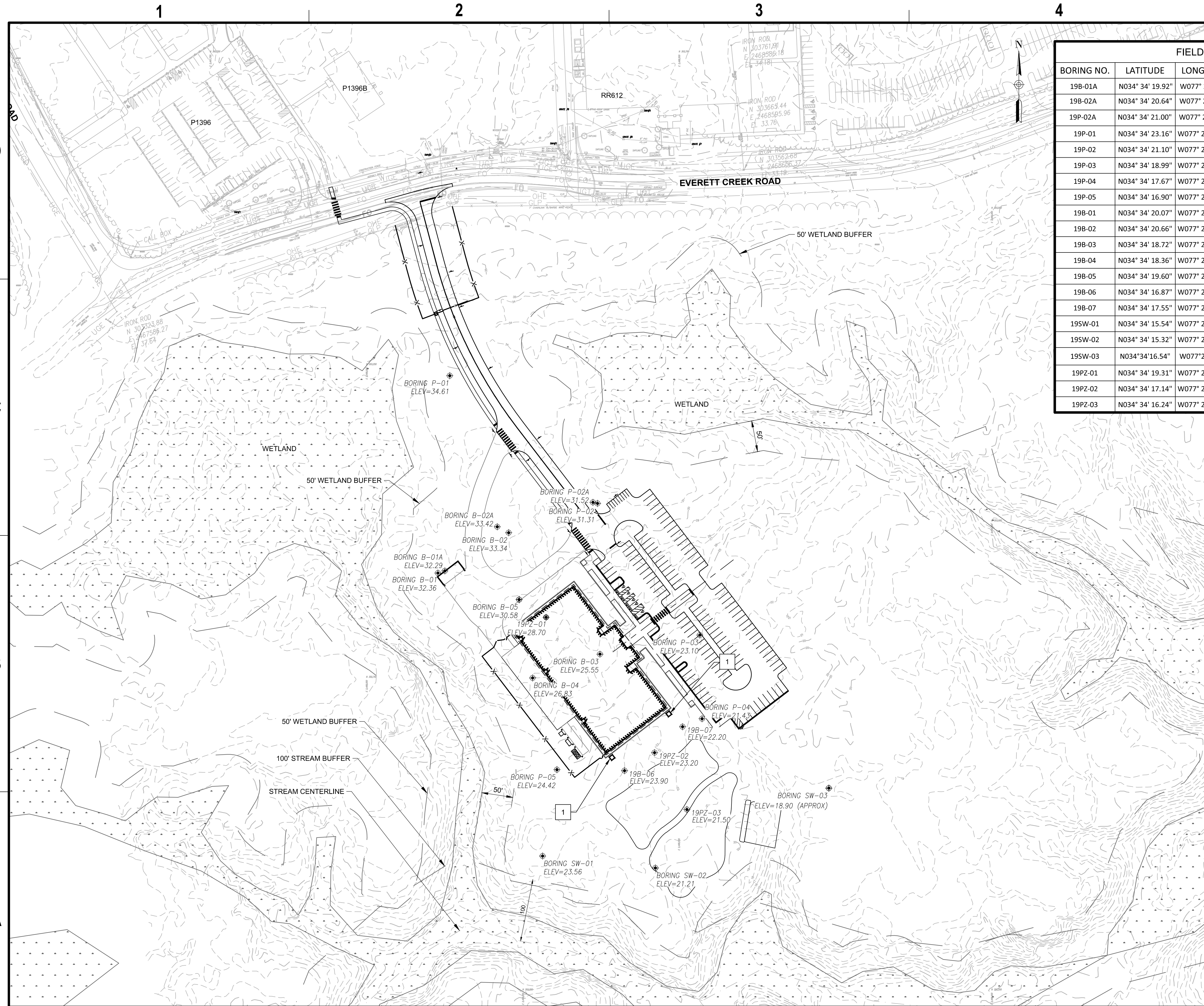
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12794226

SHEET 7 OF 228

G-006

DRAWING REVISION: 17 APRIL 2018



FIELD EXPLORATION LOCATION DATA						
BORING NO.	LATITUDE	LONGITUDE	NORTHING	EASTING	TEST DEPTH	SURFACE ELEVATION
19B-01A	N034° 34' 19.92"	W077° 26' 41.64"	302918.000'	2468117.000'	< 5 FEET	32.29
19B-02A	N034° 34' 20.64"	W077° 26' 40.56"	302992.000'	2468212.000'	< 5 FEET	33.42
19P-02A	N034° 34' 21.00"	W077° 26' 38.76"	303031.000'	2468365.000'	< 5 FEET	31.52
19P-01	N034° 34' 23.16"	W077° 26' 41.38"	303233.571'	2468135.931'	10 FEET	34.61'
19P-02	N034° 34' 21.10"	W077° 26' 38.59"	303029.321'	2468372.362'	10 FEET	31.31'
19P-03	N034° 34' 18.99"	W077° 26' 36.67"	302818.750'	2468535.948'	10 FEET	23.10'
19P-04	N034° 34' 17.67"	W077° 26' 36.66"	302685.015'	2468539.570'	10 FEET	21.43'
19P-05	N034° 34' 16.90"	W077° 26' 39.45"	302603.582'	2468307.470'	10 FEET	24.42'
19B-01	N034° 34' 20.07"	W077° 26' 41.53"	302921.400'	2468128.114'	50 FEET	32.36'
19B-02	N034° 34' 20.66"	W077° 26' 40.30"	302982.495'	2468230.208'	50 FEET	33.34'
19B-03	N034° 34' 18.72"	W077° 26' 38.59"	302788.264'	2468376.197'	40 FEET	25.55'
19B-04	N034° 34' 18.36"	W077° 26' 39.89"	302750.257'	2468268.478'	40 FEET	26.83'
19B-05	N034° 34' 19.60"	W077° 26' 40.12"	302875.482'	2468246.962'	4 FEET	30.58'
19B-06	N034° 34' 16.87"	W077° 26' 38.16"	302601.958'	2468415.545'	40 FEET	23.90'
19B-07	N034° 34' 17.55"	W077° 26' 37.03"	302672.205'	2468508.379'	40 FEET	22.20'
19SW-01	N034° 34' 15.54"	W077° 26' 39.75"	302465.462'	2468284.427'	15 FEET	23.56'
19SW-02	N034° 34' 15.32"	W077° 26' 37.59"	302446.376'	2468464.888'	15 FEET	21.21'
19SW-03	N034° 34' 16.54"	W077° 26' 34.25"	302574.07'	2468742.29'	9 FEET	18.90 (APPROX)
19PZ-01	N034° 34' 19.31"	W077° 26' 39.61"	302847.130'	2468290.068'	15 FEET	28.70'
19PZ-02	N034° 34' 17.14"	W077° 26' 37.58"	302630.737'	2468463.567'	15 FEET	23.20'
19PZ-03	N034° 34' 16.24"	W077° 26' 36.97"	302539.826'	2468515.272'	15 FEET	21.50'

NEW WORK KEYNOTES

1. SETTLEMENT PLATE, SEE PRELOADING REQUIREMENTS BELOW.

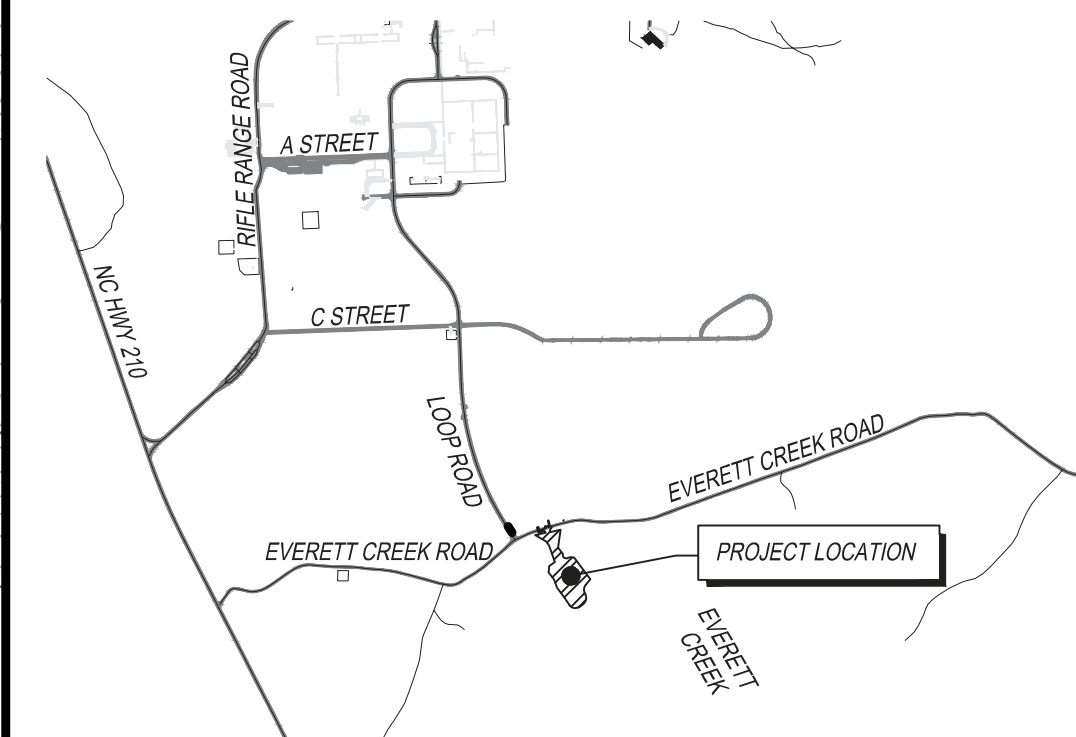
GENERAL SHEET NOTES

PRELOADING REQUIREMENTS:

- A. INSTALL TWO SETTLEMENT PLATES FIVE FEET OUTSIDE OF THE BUILDING FOOTPRINT AFTER STRIPPING AND GRUBBING AND BEFORE ANY GRADE INCREASING FILL. SETTLEMENT PLATES WILL BE CONSTRUCTED IN ACCORDANCE WITH NCDOT STANDARD 100_010_W5518_RDY_2G-1 OR APPROVED EQUAL.
- B. CONTRACTOR MUST SURVEY INITIAL SETTLEMENT PLATE LOCATIONS AND ELEVATIONS, INCLUDING ANY INSTALLED RISERS PRIOR TO FILL PLACEMENT.
- C. CONTRACTOR MUST PROVIDE SURVEYED INFORMATION ON A WEEKLY BASIS OF SETTLEMENT PLATE ELEVATION ONCE FINAL SUBGRADE ELEVATIONS HAVE BEEN REACHED FOR A MINIMUM PERIOD OF 60 DAYS (PRELOADING WAIT PERIOD). REPORT RESULTS TO THE CONTRACTING OFFICER WEEKLY.
- D. ONCE SETTLEMENT PROGRESSION HAS STABILIZED (90% SETTLEMENT DISSIPATED OR GREATER), ISSUE REPORT OF SETTLEMENT OBSERVATIONS TO THE CONTRACTING OFFICER REQUESTING RELEASE FROM THE PRELOADING PERIOD.

LOCATION MAP

NOT TO SCALE

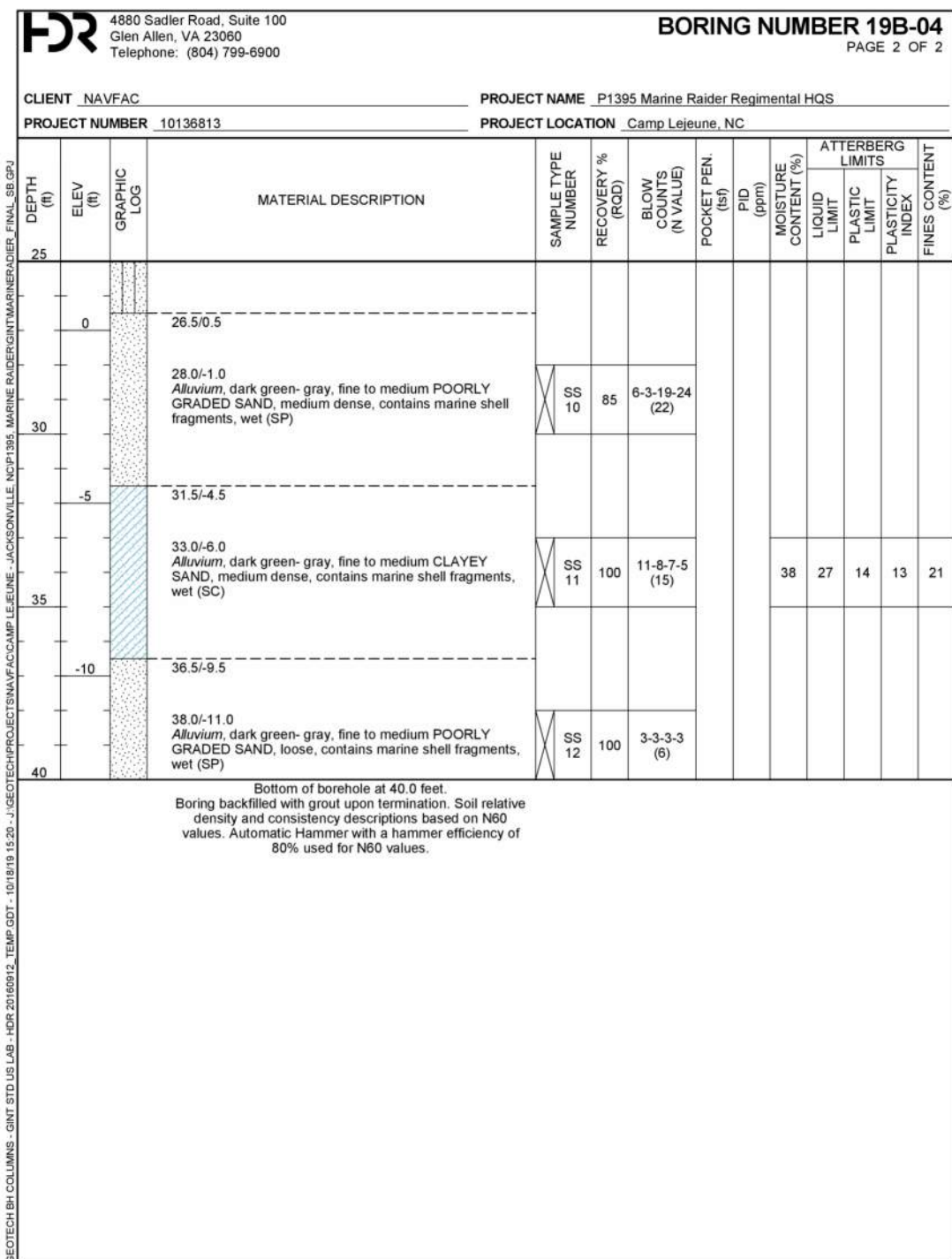
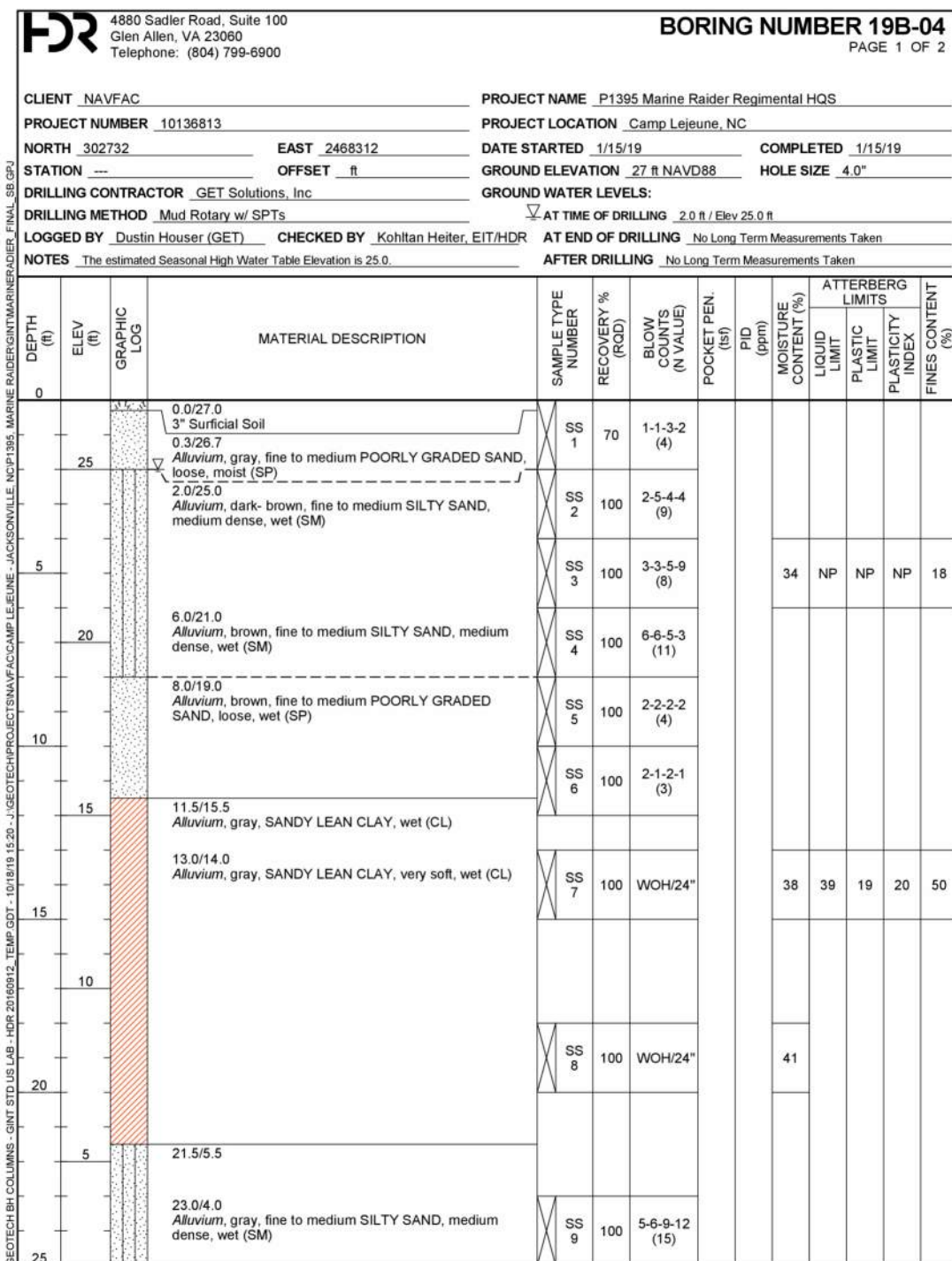
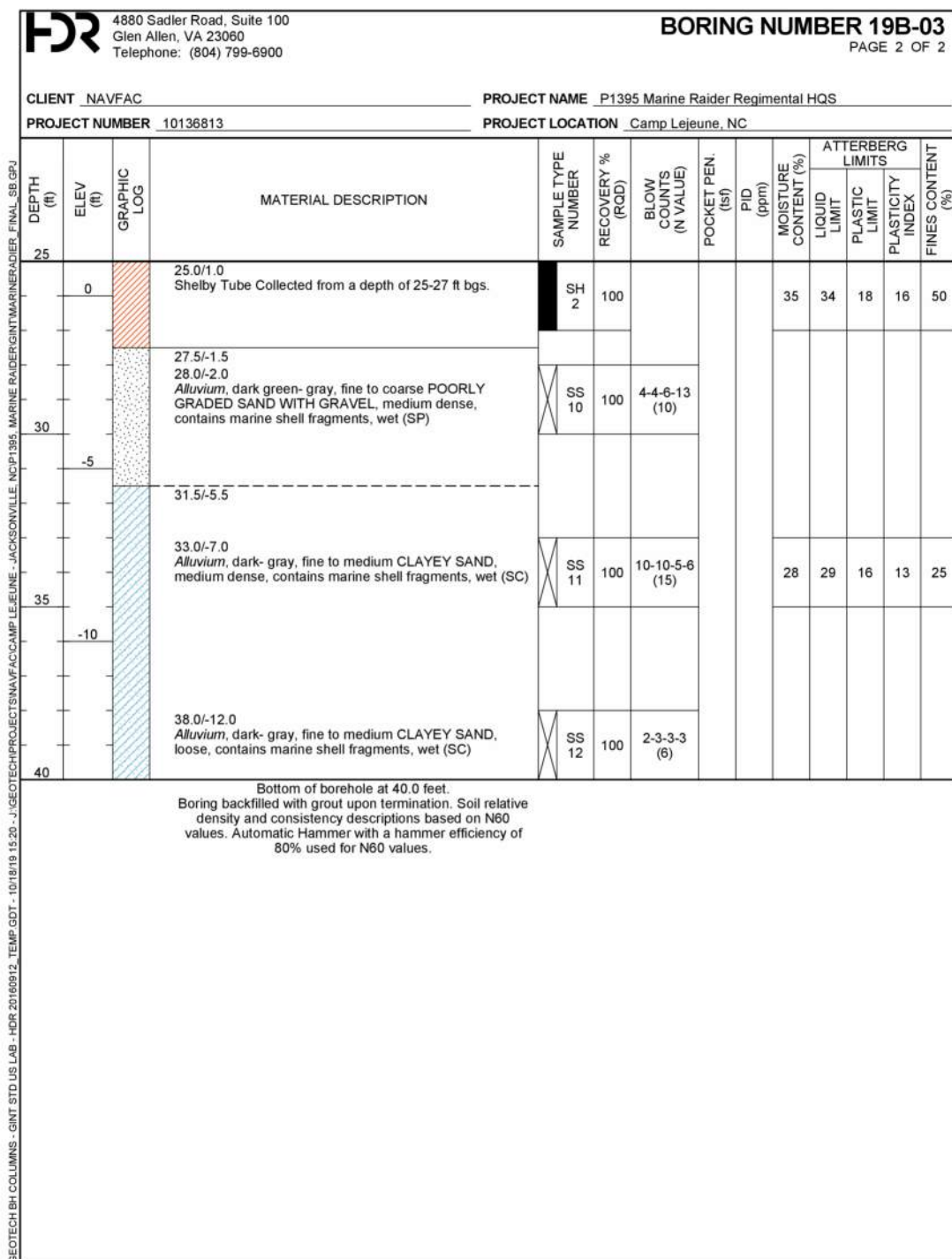
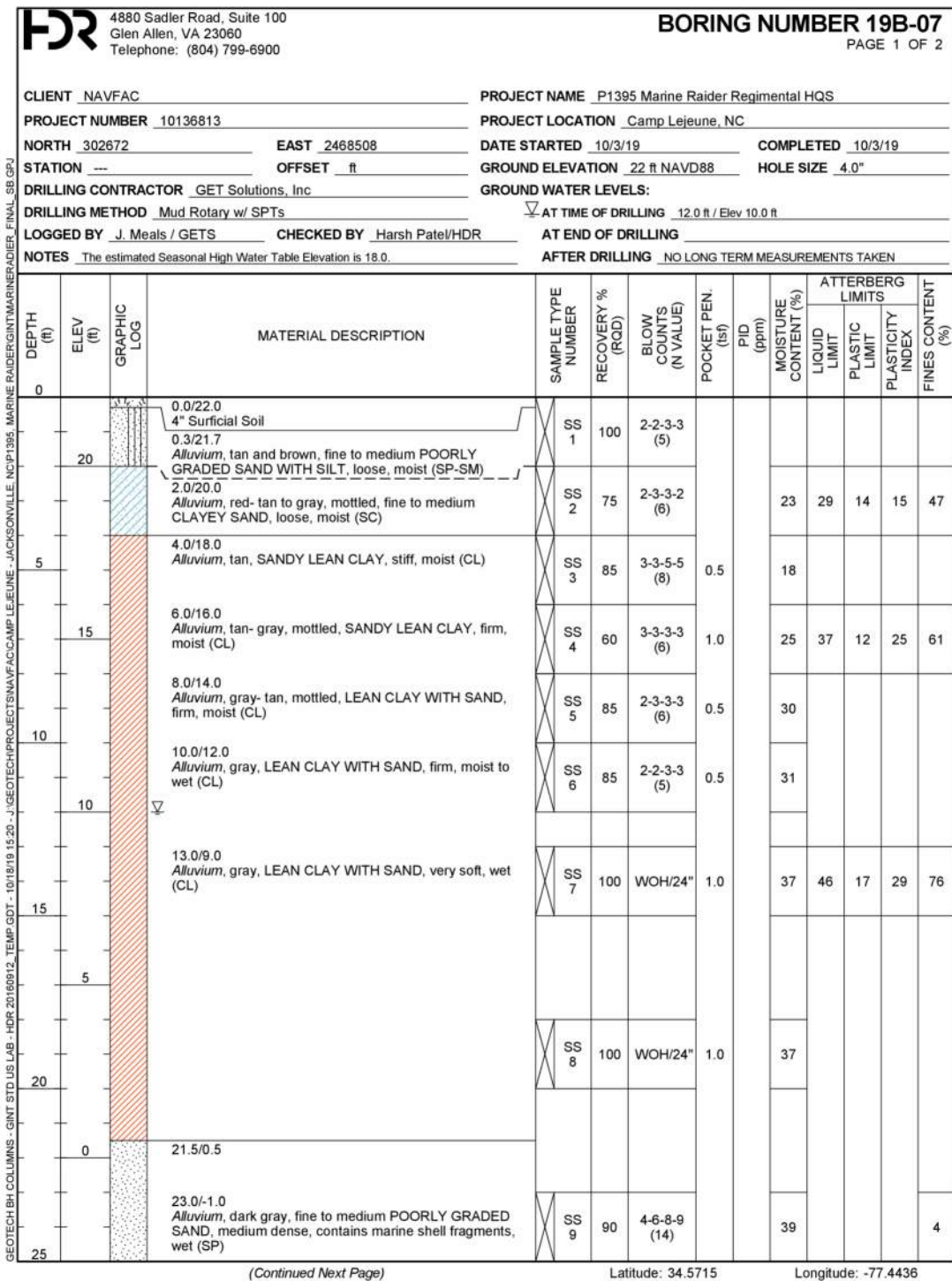
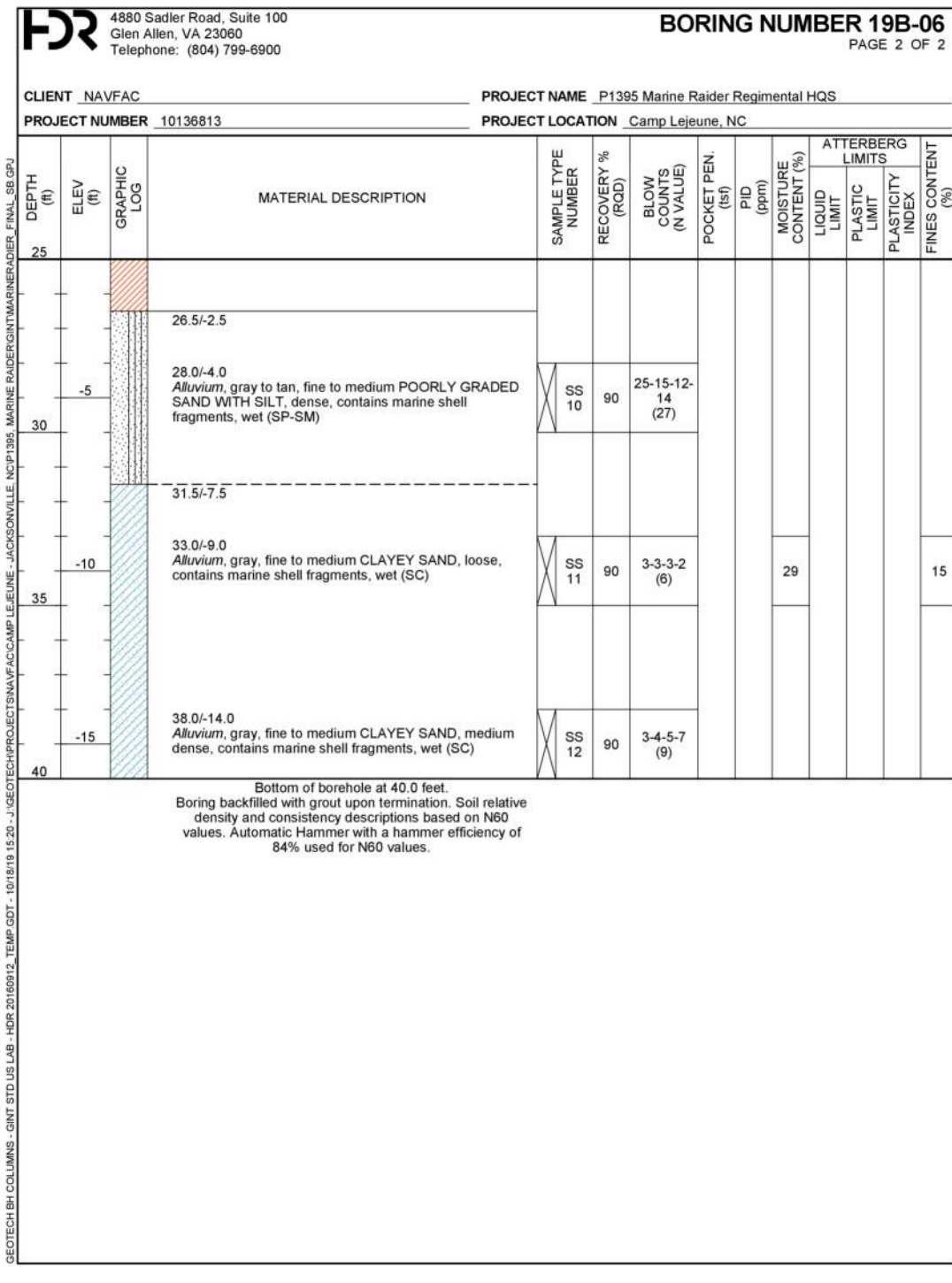
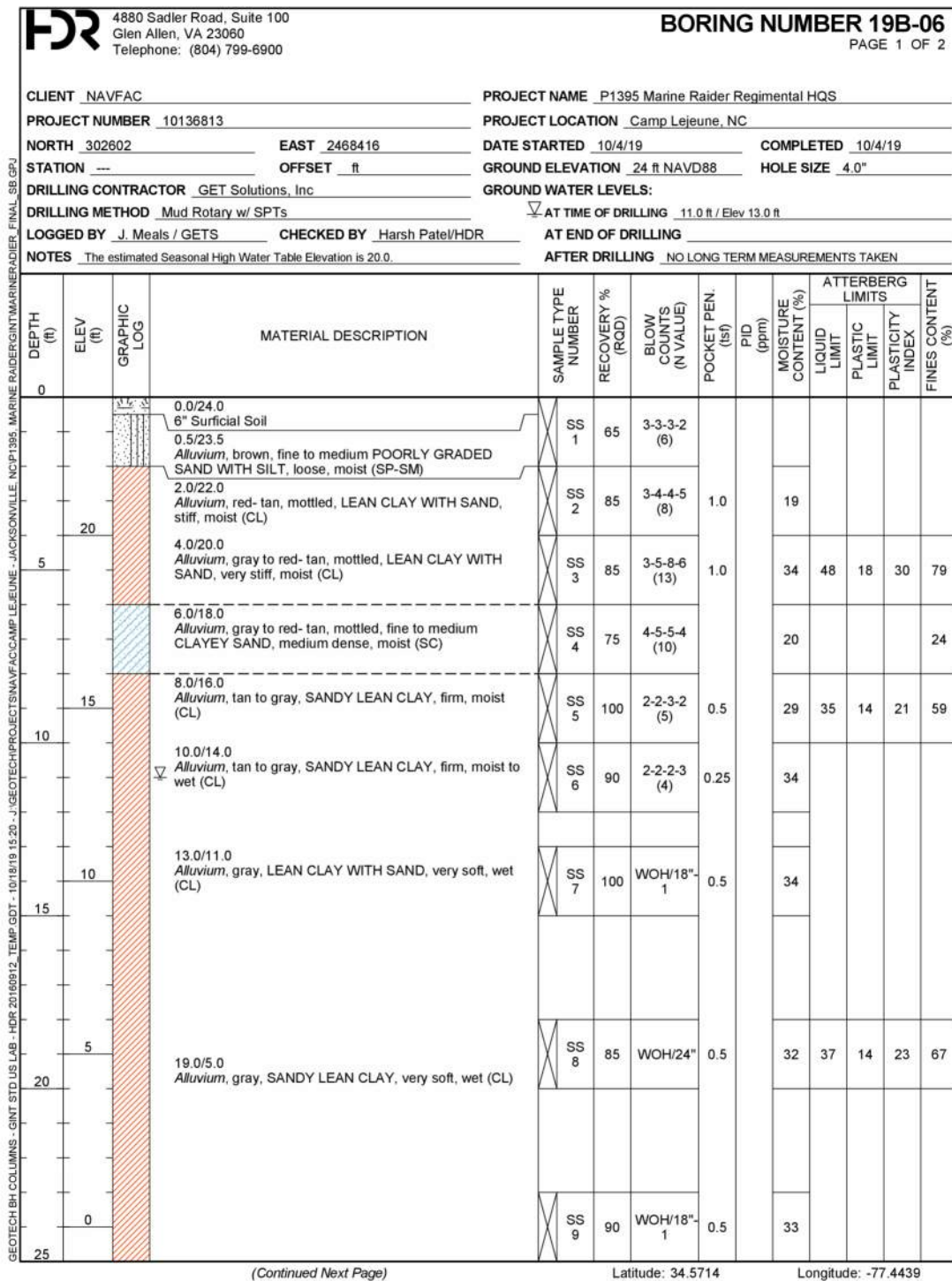
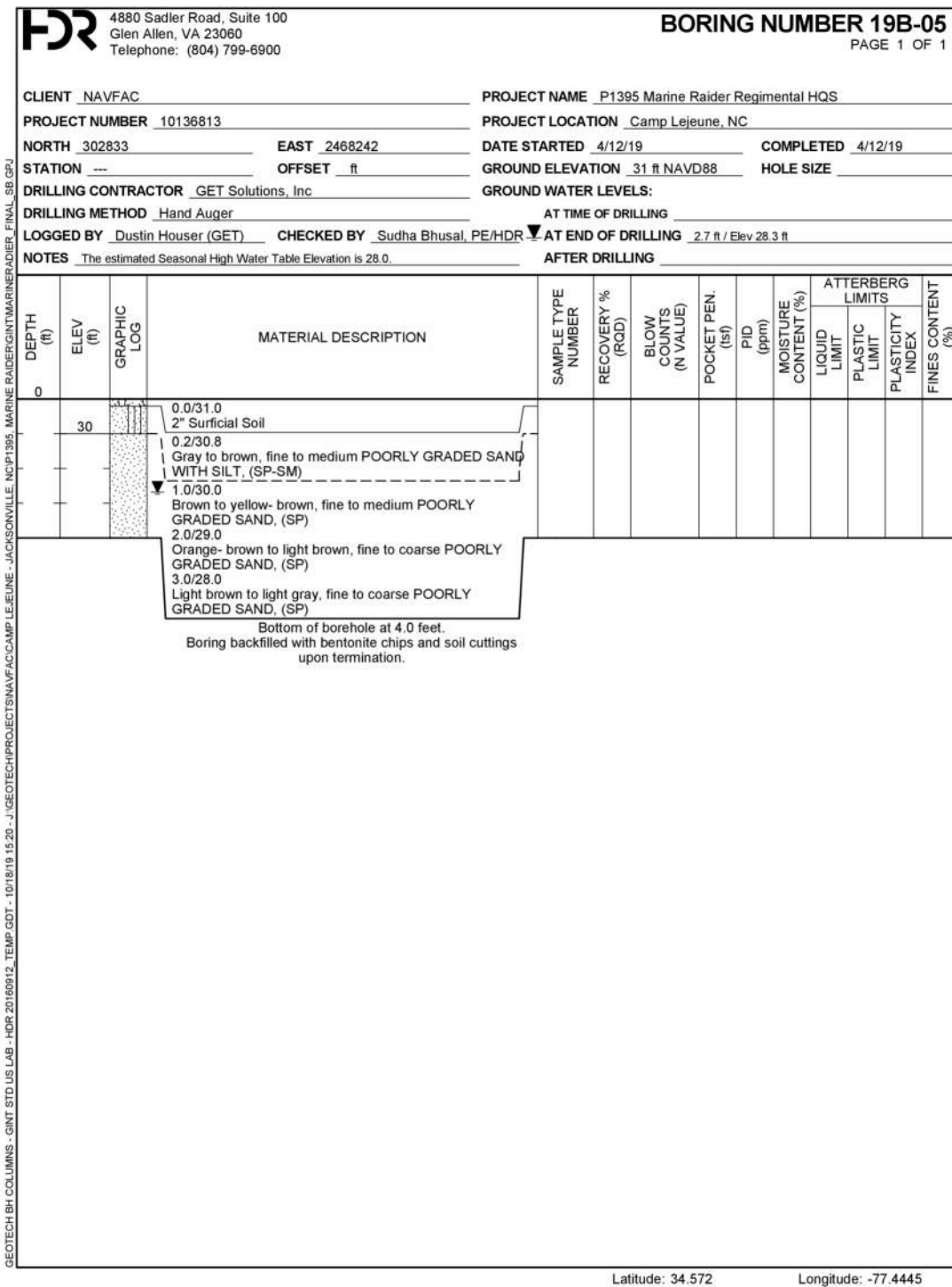


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APPROVED: [Signature]
DATE: 6/26/2020

FOR COMMANDER NAVFAC
ACTIVITY: P1395 Marine Raider Regimental HQS
Approved by Emily Sylvester, Director of Installation Development Division
SATISFACTORY TO DATE: 06/19/2020
DES: SB DRW: SD CHK: AZ
PMID: SGL/RMS
BRAND MANAGER: FAD
CHIEF ENGINEER: EJA
FIRE PROTECTION: [Blank]

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
MILITARY CIVILIAN
MARSC
JACKSONVILLE, NORTH CAROLINA
P1395 MARINE RAIDER HEADQUARTERS
BORING LOGS

SCALE: AS NOTED
PROJECT NO.: 1603164
CONSTR. CONTR. NO.:
NAVFAC DRAWING NO.: 12794229
SHEET 10 OF 228
B-102



APPROVED: [Signature]

ACTIVITY: P1395 Marine Raider Regimental HQS

Approved by Emily Sylvester, Director of Installation Development Division

SATISFACTORY TO DATE: 06/19/2020

DES: SB DRW: SD CHK: AZ

PMID: SGL/RMS

BRAND MANAGER: FAD

CHIEF ENGINEER: EJA

FIRE PROTECTION: [Blank]

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC

MILITARY CIVILIAN

MARSC

JACKSONVILLE, NORTH CAROLINA

P1395 MARINE RAIDER HEADQUARTERS

BORING LOGS

SCALE: AS NOTED

PROJECT NO.: 1603164

CONSTR. CONTR. NO.:

NAVFAC DRAWING NO.: 12794229

SHEET 10 OF 228


B-102

DRAWING REVISION: 17 APRIL 2018

UNCLASSIFIED

4880 Sadler Road, Suite 100 Glen Allen, VA 23060 Telephone: (800) 799-6900						BORING NUMBER 19P-02A PAGE 1 OF 1					
CLIENT: NAVFAC						PROJECT NAME: P1395 Marine Radar Regimental HQS					
PROJECT NUMBER: 10136813						PROJECT LOCATION: Camp Lejeune, NC					
NORTH: 303031						DATE STARTED: 4/12/19					
STATION: _____						COMPLETED: 4/12/19					
EAST: 3486365						GROUND ELEVATION: 32.8 NAVD83					
OFFSET: S						HOLE SIZE:					
DILLING CONTRACTOR: GET Solutions, Inc.						GROUND WATER LEVELS:					
DILLING METHOD: Hand Auger						AT TIME OF DILLING:					
LOGGED BY: David Houston (GET)						AT END OF DILLING: 2.7 ft Elev 29.8					
CHECKED BY: Southa Bhushan, PEL-HQ											
NOTES: The estimated Seasonal High Water Table Elevation is 29.5						AFTER DILLING					

DEPTH (ft)	ELEV (ft)	CORRECTION LOG	MATERIAL DESCRIPTION	SAMPLE TYPE	RECOVERY %	BLOW COUNT (N VALUE)	POCKET PEN. (lb/in)	RIM (ft)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	AFTERSBERG'S LIMITS	FINE CONTENT (%)
0													
30			6.9(32.0) 2" Surficial Soil 0.2(31.8) Gray, SILTY SAND, (SM) 1.0(31.0) Dark brown to light brown, fine to medium POORLY GRADED SAND WITH SILT, (SP-SM) 2.5(30.0) Light brown to orange-brown, fine to coarse POORLY GRADED SAND, (SP) 3.0(29.0) Light brown to light gray, fine to coarse POORLY GRADED SAND, (SP)										
Bottom of borehole at 4 feet. Boring backfilled with bentonite chips and soil cuttings upon termination.													

 FAS 4890 Sader Road, Suite 100 Glen Allen, VA 23060 Telephone: (800) 799-6900						BORING NUMBER 19SW-1 PAGE 1 OF 1								
CLIENT: NAVFAC						PROJECT NAME: P1395 Marine Radar Regimental HQS								
PROJECT NUMBER: 10198813						PROJECT LOCATION: Camp Lejeune, NC								
NORTH: 302673			EAST: 3468274			DATE STARTED: 11/6/19			COMPLETED: 11/6/19					
STATION:			OFFSET: #			GROUND ELEVATION: 23 NAVD83			HOLE SIZE: 4.0"					
DILLING CONTRACTOR: GET Solutions, Inc.						GROUND WATER LEVELS:								
DILLING METHOD: Mud Rotary w/ SP's						W AT THE TOP OF DRILLING: 14.91 Elev 9.0 ft								
LOGGED BY: Duane Houser (GET)						CHECKED BY: Kathleen Hecker, ET-PdR								
NOTES: The estimated Seepage High Water Table Elevation is 14.6						AT END OF DRILLING: No Long Term Measurements Taken								
						AFTER DILLING: To Be Measured								
MATERIAL DESCRIPTION						SAMPLE TYPE NUMBER	RECOVERY (%)	BLOW COUNT (B VALUE)	POCKET PEN. (psi)	UNIT WEIGHT (pcf)	AFTERBERG LIMITS	LIQUID PLASTIC LIMIT	SHrinkage INDEX	FIELD CONTENT
DEPTH (FT)	ELEV (FT)	CHLOR LOG				SS 1	70	2-1-2 (3)						
20			6.0/23.0 LT Surface Soil			SS 2	85	2-2-4 (8)						
5			0.1/22.9 Light-gray, fine to medium POORLY GRADED SAND, loose, moist (SP)			SS 3	100	5-3-5 (8)						
15			5.0/18.0			SS 4	100	5-4-5 (9)						
10			6.0/17.0 Pale brown, FAT CLAY, stiff, moist (CH)			SS 5	100	4-4-3 (7)						
10			8.0/15.0 Pale brown to light gray, FAT CLAY, stiff, wet (CH)			SS 6	90	3-3-3 (8)						
10			10.0/13.0 Dark gray, FAT CLAY, medium stiff, wet (CH)			SS 7	100	3-3-3 (5)						
15			Bottom of borehole at 15.0 feet											
Temporary piezometer installed to a depth of 15 feet bgs. Soil relative density and consistency descriptions based on N60 values. Automatic Hammer with a hammer efficiency of 80% used for N60 values.														

UNCLASSIFIED

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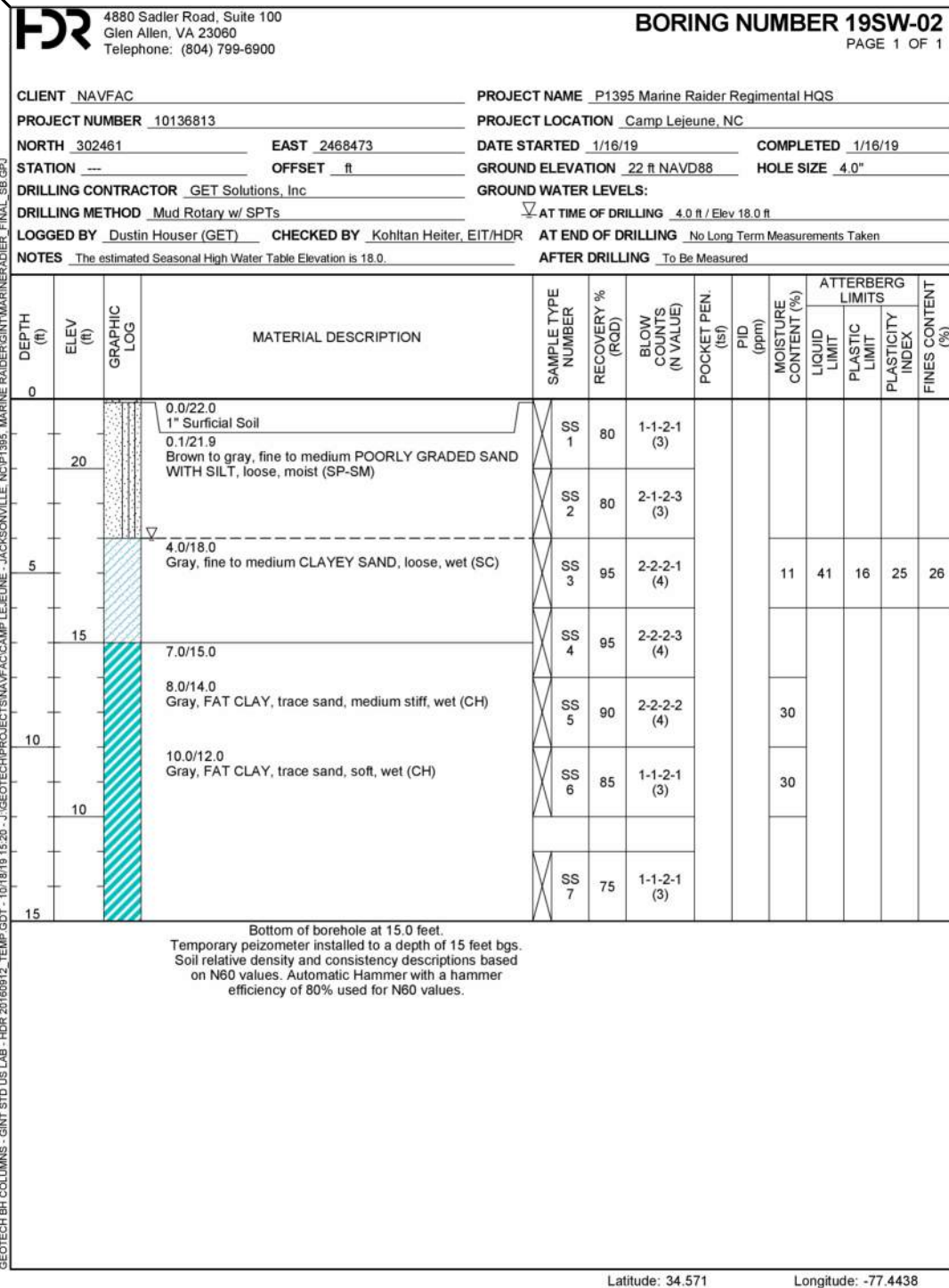


TABLE C-1: SUMMARY OF LABORATORY TESTING RESULTS

Boring ID	Sample Type	Depth, feet	Atterberg Limits				Grain Size Analysis				USCS Symbol	Standard Proctor		California Bearing Ratio					
			w (%)	LL (%)	PI (%)	% Gravel ¹	% Sand ²	% Silts/Clay ³	W _{max} (%)	P _{max} (pcf)		T ₂ (pcf)	w (%)	% MOD	CBR	% Seve ⁴			
19S-01	Jar	2.0	4.0	22.7	-	-	-	97.1	2.9	-	-	-	-	-	-	-	-	-	-
19S-01	Jar	4.0	6.0	18.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-01	Jar	6.0	8.0	21.2	-	-	-	-	92.2	7.8	-	-	-	-	-	-	-	-	-
19S-01	Jar	10.0	10.0	24.0	31	16	15	0.0	70.9	29.1	SC	-	-	-	-	-	-	-	-
19S-01	Jar	13.0	15.0	36.5	44	20	24	0.0	55.1	44.9	SC	-	-	-	-	-	-	-	-
19S-01	Jar	18.0	20.0	35.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-01	Tube	20.0	22.0	37.6	48	22	26	0.0	46.9	53.1	CL	-	-	-	-	-	-	-	-
19S-01	Jar	23.0	25.0	41.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-01	Jar	28.0	30.0	41.2	47	18	29	0.0	39.3	60.7	CL	-	-	-	-	-	-	-	-
19S-01	Jar	38.0	40.0	73.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-01	Jar	43.0	45.0	51.4	49	20	29	0.5	47.7	51.8	CL	-	-	-	-	-	-	-	-
19S-02	Jar	2.0	4.0	25.2	NP	NP	NP	0.0	95.4	4.6	SP	-	-	-	-	-	-	-	-
19S-02	Jar	4.0	8.0	25.1	NP	NP	NP	0.0	93.3	6.7	SP-SM	-	-	-	-	-	-	-	-
19S-02	Jar	8.0	10.0	31.4	NP	NP	NP	0.1	96.7	3.2	SP	-	-	-	-	-	-	-	-
19S-02	Jar	13.0	15.0	34.4	36	17	19	0.0	60.5	39.5	SC	-	-	-	-	-	-	-	-
19S-02	Jar	18.0	20.0	38.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-02	Jar	23.0	25.0	38.3	42	14	28	0.0	42.6	57.4	CL	-	-	-	-	-	-	-	-
19S-02	Jar	28.0	30.0	42.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-02	Jar	38.0	40.0	51.3	45	19	25	0.1	44.3	55.6	CL	-	-	-	-	-	-	-	-
19S-03	Jar	2.0	4.0	29.3	32	18	14	0.0	48.1	51.9	CL	-	-	-	-	-	-	-	-
19S-03	Jar	8.0	10.0	26.8	NP	NP	NP	0.0	94.5	5.5	SP-SM	-	-	-	-	-	-	-	-
19S-03	Jar	13.0	15.0	32.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-03	Tube	15.0	17.0	35.9	47	21	26	0.0	41.6	58.4	CL	-	-	-	-	-	-	-	-
19S-03	Jar	18.0	20.0	35.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-03	Jar	23.0	25.0	34.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-03	Tube	25.0	27.0	34.8	34	18	16	0.0	49.6	50.4	CL	-	-	-	-	-	-	-	-
19S-03	Jar	33.0	35.0	27.8	29	15	13	3.7	71.6	28.4	SC	-	-	-	-	-	-	-	-
19S-04	Jar	4.0	6.0	13.7	NP	NP	NP	18.6	81.4	18.6	SM	-	-	-	-	-	-	-	-
19S-04	Jar	13.0	15.0	38.4	39	19	20	0.0	50.0	50.0	CL	-	-	-	-	-	-	-	-
19S-04	Jar	18.0	20.0	41.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-04	Jar	33.0	35.0	38.4	27	14	13	5.4	73.6	21.0	SC	-	-	-	-	-	-	-	-
19S-06	Jar	2.0	4.0	18.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-06	Jar	4.0	6.0	34.4	48	18	30	0.0	20.6	79.4	CL	-	-	-	-	-	-	-	-
19S-06	Jar	6.0	8.0	20.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-06	Jar	8.0	10.0	28.7	35	14	21	0.0	40.8	59.2	CL	-	-	-	-	-	-	-	-
19S-06	Jar	10.0	12.0	33.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-06	Jar	13.0	15.0	34.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-06	Jar	18.0	20.0	32.1	37	14	23	0.0	32.7	67.3	CL	-	-	-	-	-	-	-	-

TABLE C-1: SUMMARY OF LABORATORY TESTING RESULTS

Boring ID	Sample Type	Depth, feet	Atterberg Limits			Grain Size Analysis			USCS Symbol	Standard Proctor			California Bearing Ratio						
			w (%)	LL (%)	PI (%)	% Gravel ¹	% Sand ²	% Silts/Clay ³		W _{max} (%)	Y _{max} (pcf)	W _{max} (%)	Y _{max} (pcf)	W (%)	% MDD	CBR	% Sieve ⁴		
19S-06	Jar	23.0	25.0	32.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-06	Jar	33.0	35.0	29.0	-	-	-	-	15.0	-	-	-	-	-	-	-	-	-	-
19S-07	Jar	2.0	4.0	22.7	29	14	15	0.0	53.3	46.7	SC	-	-	-	-	-	-	-	-
19S-07	Jar	4.0	6.0	12.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-07	Jar	6.0	8.0	25.1	37	12	25	0.0	38.7	61.3	CL	-	-	-	-	-	-	-	-
19S-07	Jar	8.0	10.0	30.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-07	Jar	10.0	12.0	31.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-07	Jar	13.0	15.0	37.0	46	17	29	0.0	24.4	75.6	CL	-	-	-	-	-	-	-	-
19S-07	Jar	18.0	20.0	37.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-07	Jar	23.0	25.0	39.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19S-07	Jar	33.0	35.0	29.7	-	-	-	-	4.0	-	-	-	-	-	-	-	-	-	-
19P-01	Bulk	1.0	4.0	16.4	NP	NP	NP	0.0	68.4	31.6	SM	16.4	104.6	12.7	-	-	-	-	-
19P-02	Bulk	1.0	4.0	22.6	25	18	7	0.1	54.5	45.4	SC-SM	22.6	109.1	15.3	-	-	-	-	-
19P-03	Bulk	0.3	2.0	20.5	25	18	7	0.1	54.5	45.4	SC-SM	18.1	109.1	15.3	108.1	19.7	99.1	7.7	0.0
19P-03	Jar	4.0	6.0	23.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19P-03	Jar	6.0	8.0	30.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19P-03	Jar	8.0	10.0	32.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19P-04	Jar	0.0	2.0	17.2	NP	NP	NP	0.2	73.5	26.3	SM	-	-	-	-	-	-	-	-
19P-04	Jar	2.0	4.0	22.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19P-04	Jar	4.0	6.0	24.3	30	15	15	0.0	71.6	28.4	SC	-	-	-	-	-	-	-	-
19P-04	Jar	6.0	8.0	30.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19P-04	Jar	8.0	10.0	33.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19P-05	Bulk	1.0	4.0	17.4	NP	NP	NP	0.0	91.7	8.3	SP-SM	17.4	117.5	10.7	-	-	-	-	-
19P-05	Jar	0.3	2.0	19.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19P-05	Jar	2.0	4.0	27.1	-	-	-	-	65.6	34.4	-	-	-	-	-	-	-	-	-
19P-05	Jar	4.0	6.0	21.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19P-05	Jar	6.0	8.0	31.0	39	17	22	0.0	41.4	58.6	CL	-	-	-	-	-	-	-	-
19P-05	Jar	8.0	10.0	38.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19SW-02	Jar	4.0	6.0	18.7	41	16	25	0.0	75.7	24.3	SC	-	-	-	-	-	-	-	-
19SW-02	Jar	8.0	10.0	29.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19SW-02	Jar	10.0	12.0	29.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19SW-02	Bulk	0.0	10.0	16.4	NP	NP	NP	0.2	89.7	10.1	SP-SM	16.4	106.9	13.6	103.7	17.0	97.0	17.3	0.0

<

¹ Particle Diameter > Sieve No. 4

² Sieve No. 4 > Particle Diameter < Sieve No. 200

³ Particle Diameter < Sieve No. 200

LABORATORY TESTING NOTES:

- THE LABORATORY TEST RESULTS REPRESENT THE SUBSURFACE SOIL PROPERTIES ENCOUNTERED AT THE SPECIFIC BORING LOCATIONS AND DEPTHS. IT IS POSSIBLE THAT SOIL PROPERTIES AND CONDITIONS BETWEEN THE INDIVIDUAL BORING LOCATIONS AND DEPTHS WILL BE DIFFERENT FROM THOSE INDICATED.
- LABORATORY TESTS WERE PERFORMED IN GENERAL ACCORDANCE WITH THE FOLLOWING ASTM STANDARDS: D2216, D1140, D6913, D7928, D4318, D698, D1883, AND D2435.
- MOISTURE CONTENT AND INDEX TESTS WERE PERFORMED ON JAR SAMPLES OBTAINED FROM THE SOIL BORINGS. MOISTURE-DENSITY AND CBR TESTS WERE PERFORMED ON SURFACE EXCAVATED COMPOSITE BULK SAMPLES.
- "HDR GEOTECHNICAL ENGINEERING REPORT, REV. 3 - P-1395 SPECIAL OPERATIONS FORCES MARINE RAIDER REGIMENTAL HQS" DATED MAY 29, 2020 CONTAINS DETAILS OF LABORATORY TESTING RESULTS.

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND

FOR COMMANDER NAVFAC

APPROVED

NAVFAC



DESCRIPTION

DATE

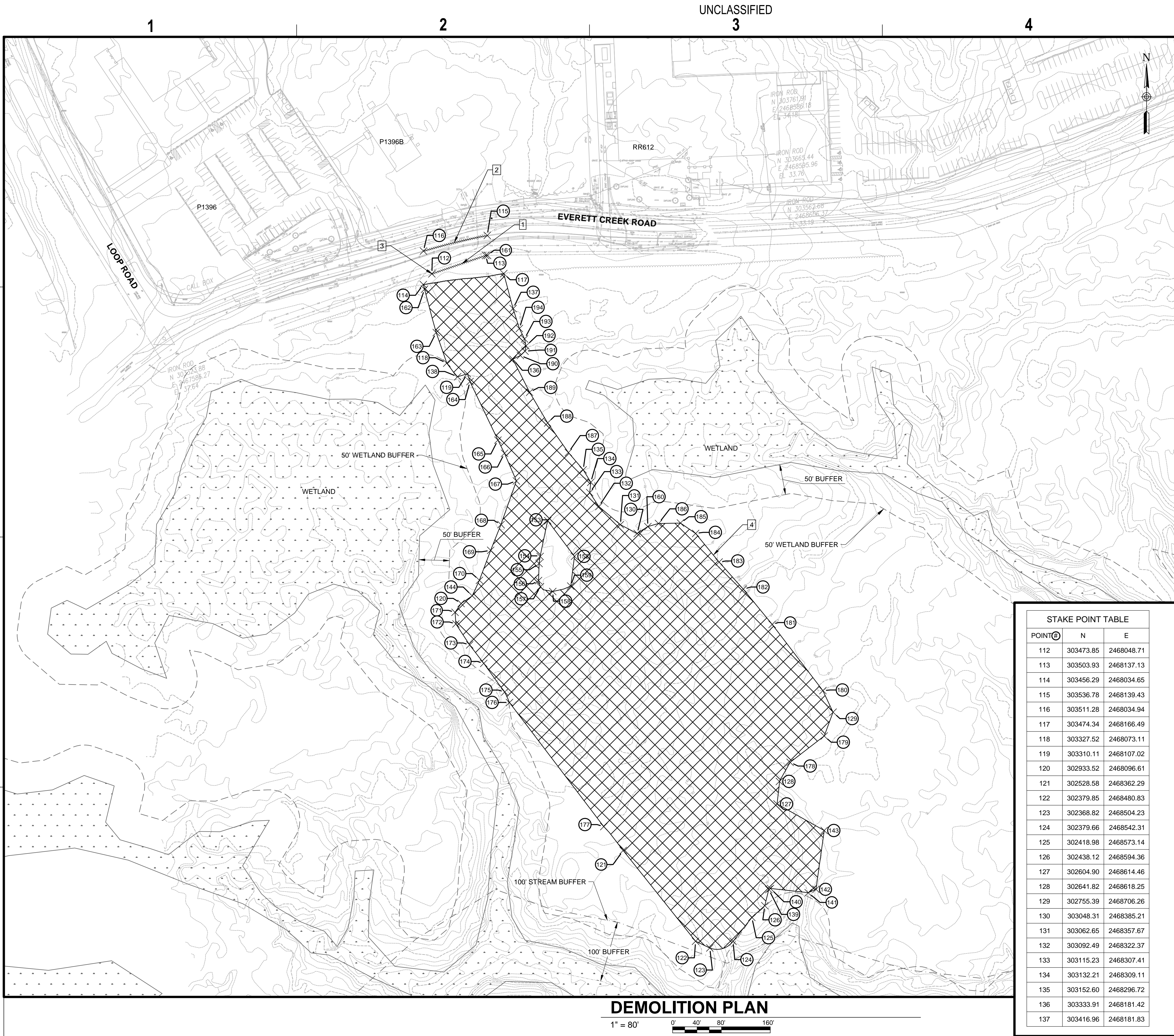
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CIVIL MAPPING SYMBOLOGY

UTILITY/CIVIL LINE SYMBOLOGY

GENERAL SHEET NOTES

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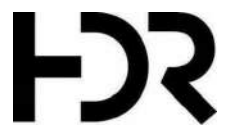
GENERAL SHEET NOTES

- A. SAW CUT FOR CLEAN LINES WHERE NEW WORK MEETS EXISTING FOR PAVEMENT AND CURB AND GUTTER.
- B. COORDINATE DEMOLITION AND REMOVAL OF UTILITIES WITH CONTRACTING OFFICER. ALL DEMOLISHED UTILITIES SHALL BE REMOVED; PERMISSION FROM CONTRACTING OFFICER REQUIRED TO ABANDON A UTILITY IN PLACE.
- C. REFER TO ELECTRICAL PLANS FOR ROUTING OF OVERHEAD AND UNDERGROUND ELECTRICAL AND TELECOMMUNICATION LINES.
- D. ALL AREAS WHERE STRUCTURES AND PIPING ARE REMOVED SHALL BE GRADED IN A MANNER TO MAINTAIN POSITIVE DRAINAGE. TO AVOID SETTLING IN AREAS OF SIGNIFICANT FILL, PLACE AND COMPACT SOIL IN 6" LIFTS AND PROVIDE A 6" ADDITIONAL SOIL PLACEMENT ABOVE NATURAL GRADE.
- E. VERIFY WITH THE OWNER WHETHER ANY MATERIAL OR APPURTENANCES ARE TO BE SALVAGED.
- F. ANY UNSUITABLE SOILS ARE NOT TO LEAVE MCBCL. REFER TO SOIL REMOVAL NOTES ON SHEET CG101.
- G. SEE CIVIL LEGEND ON SHEET C-001.
- H. UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY OTHERS AND IS NOT GUARANTEED TO INCLUDE ALL SUCH FEATURES OR EXACT LOCATIONS. CONTRACTOR TO FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. PROTECT ALL EXISTING FEATURES NOT NOTED FOR REMOVAL.
- I. FILL ALL STRUCTURES AND HOLES CREATED FROM DEMOLITION WITH COMPACTED FILL MATERIAL TO A 95% MAXIMUM DRY DENSITY PER ASTM D698. REFER TO TRENCHING DETAILS.
- J. INSTALL PHASE 1 EROSION CONTROL MEASURES PRIOR TO STARTING DEMOLITION AND/OR MASS CLEARING. SEE SHEETS CG104, CG105, CG106.
- K. ALL TIMBER ON THE PROJECT SITE NOTED FOR CLEARING AND GRUBBING MUST BECOME THE PROPERTY OF THE CONTRACTOR, AND MUST BE REMOVED FROM THE PROJECT SITE.
- L. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES, AND STATUTES.
- M. EXECUTE ALL WORK WITH CARE TO PROTECT FROM DAMAGE ALL ADJACENT EXISTING FEATURES THAT ARE TO REMAIN. ANY SUCH DAMAGE SHALL BE REPAIRED OR REPLACED TO MATCH THE ORIGINAL CONDITION AS APPROVED BY THE CONTRACTING OFFICER AT NO ADDITIONAL COST TO THE GOVERNMENT.
- N. PROTECT ALL EXISTING TREES OUTSIDE OF CLEARING LIMITS.



NEW WORK KEYNOTES

- 1. CONTRACTOR MAY INSTALL VEHICLE GATE IN EXISTING PERIMETER SECURITY FENCE TO ACCESS THE SITE UNTIL THE PERMANENT PERIMETER SECURITY FENCE IS FULLY INSTALLED. GATE MUST BE LOCKED AT THE END OF EACH WORK DAY. CONTRACTOR TO COORDINATE GATE INSTALLATION WITH CONTRACTING OFFICER.
- 2. SAW CUT EDGE OF EXISTING ROADWAY FOR CLEAN TIE IN OF NEW ROADWAY. REFER TO SHEET CS101 FOR MORE INFORMATION ON NEW ROADWAY TIE IN.
- 3. EXISTING CHAIN LINK SECURITY FENCE TO BE REMOVED.
- 4. MACHINE CLEAR AND GRUB. REFER TO NOTE K ON THIS SHEET.



440 S. CHURCH STREET, SUITE 1000
CHARLOTTE, NC 28202
TEL. (704)338-4700

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by Emily Sylvester, Director of
Installation Development Division

SAFETY FACTORY TO DATE 06/19/2020

DES JCC DRW ARM CHK RMB

PMCM SGLRMS

BRANCH MANAGER DLB

CHIEF ENGINEER EJA

TREE PROTECTION

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC

CAMP LEJEUNE - JACKSONVILLE, NC

JACKSONVILLE, NORTH CAROLINA

MARSOC

P 1395 MARINE RAIDER HEADQUARTERS

DEMOLITION PLAN

SCALE: 1" = 80'

PROJECT NO.: 1603164

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12794234

SHEET 15 OF 228

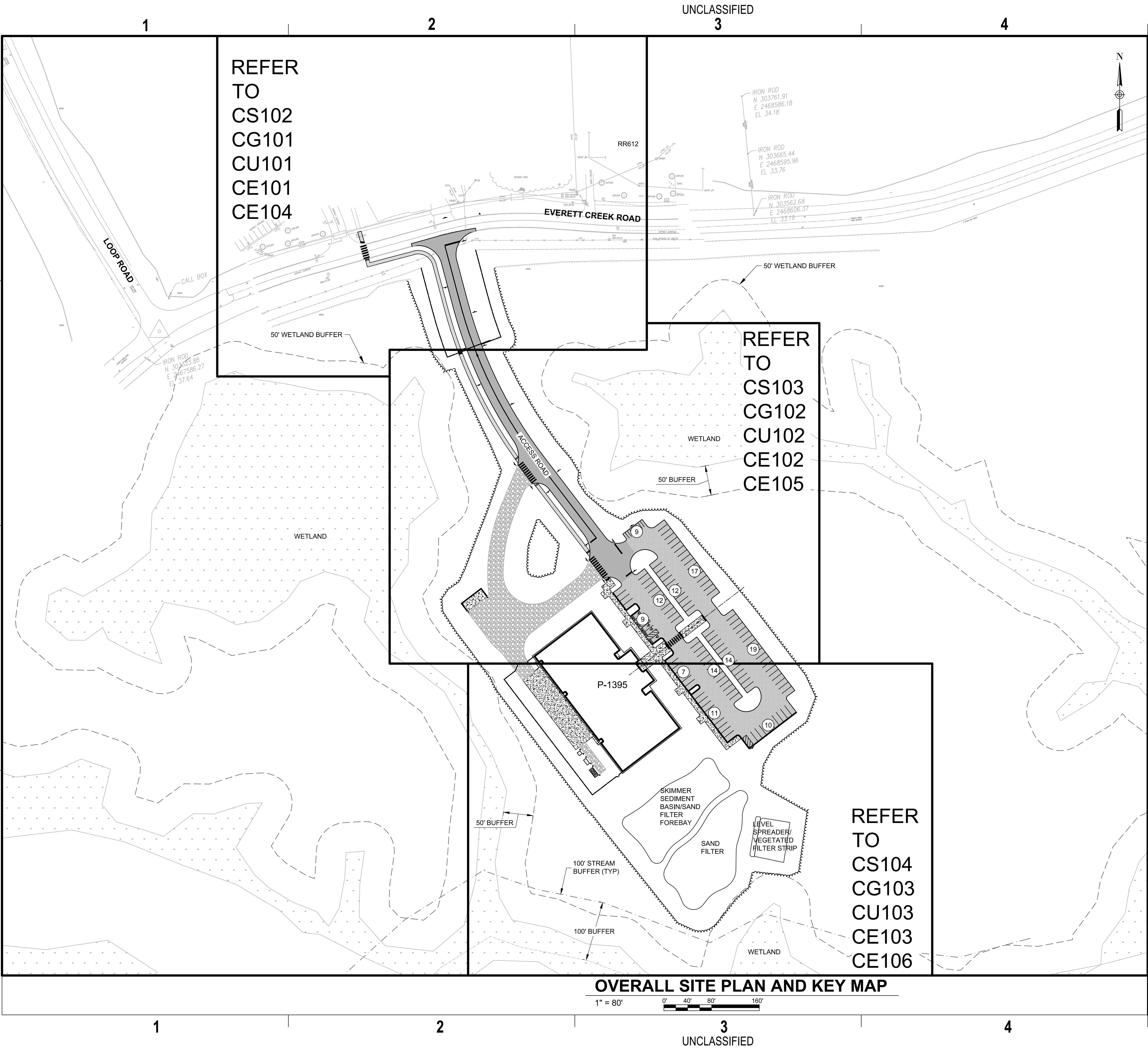
CD101

DRAWING REVISION: 17 APRIL 2018

STAKE POINT TABLE			
POINT	N	E	
112	303473.85	2468048.71	
113	303503.93	2468137.13	
114	303456.29	2468034.65	
115	303536.78	2468139.43	
116	303511.28	2468034.94	
117	303474.34	2468166.49	
118	303327.52	2468073.11	
119	303310.11	2468107.02	
120	302933.52	2468096.61	
121	302528.58	2468362.29	
122	302379.85	2468480.83	
123	302368.82	2468504.23	
124	302379.66	2468542.31	
125	302418.98	2468573.14	
126	302438.12	2468594.36	
127	302604.90	2468614.46	
128	302641.82	2468618.25	
129	302755.39	2468706.26	
130	303048.31	2468385.21	
131	303062.65	2468357.67	
132	303092.49	2468322.37	
133	303115.23	2468307.41	
134	303132.21	2468309.11	
135	303152.60	2468296.72	
136	303333.91	2468181.42	
137	303416.96	2468181.83	

STAKE POINT TABLE			
POINT	N	E	
138	303305.21	2468090.90	
139	302464.65	2468600.91	
140	302466.41	2468603.60	
141	302459.44	2468665.52	
142	302464.97	2468678.27	
143	302561.36	2468691.78	
144	302946.01	2468114.86	
152	303010.82	2468282.39	
153	303069.16	2468238.66	
154	303010.65	2468226.14	
155	302999.08	2468224.47	
156	302971.11	2468223.51	
157	302961.05	2468226.66	
158	302953.15	2468246.77	
159	302962.04	2468276.30	
160	303059.55	2468402.67	
161	303504.02	2468140.04	
162	303448.69	2468036.74	
163	303377.59	2468055.82	
164	303297.22	2468111.21	
165	303201.32	2468156.96	
166	303179.83	2468167.73	
167	303134.46	2468187.24	
168	303062.86	2468161.96	
169	303020.69	2468145.08	
170	302971.54	2468126.65	

STAKE POINT TABLE			
POINT	N	E	
171	302919.06	2468086.74	
172	302899.99	2468088.09	
173	302865.62	2468110.63	
174	302835.32	2468133.77	
175	302788.46	2468168.22	
176	302771.09	2468175.92	
177	302567.84	2468330.37	
178	302673.18	2468635.90	
179	302716.35	2468691.80	
180	302790.69	2468689.59	
181	302899.23	2468606.45	
182	302956.94	2468559.20	
183	303001.50	2468519.45	
184	303048.31	2468481.02	
185	303065.36	2468456.20	
186	303064.58	2468420.12	
187	303180.92	2468272.47	
188	303229.48	2468238.48	
189	303279.80	2468208.89	
190	303340.00	2468193.75	
191	303347.06	2468201.30	
192	303355.58	2468203.00	
193	303367.26	2468200.57	
194	303384.31	2468192.14	



5

GENERAL SHEET NOTES

A. SEE LEGEND ON SHEET C-001.

B. ANY PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

C. COORDINATE THE WORK OF ALL DISCIPLINES. VERIFY FIELD CONDITIONS, QUANTITIES AND DIMENSIONS PRIOR TO THE COMMENCEMENT OF WORK. ANY DISCREPANCIES SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER.

PARKING SUMMARY:
STANDARD SPACES = 120
MOTORCYCLE SPACES = 9
ADA ACCESSIBLE SPACES = 5
TOTAL SPACES = 134

NAVAC

SEAL
ENGINEER
MICHAEL C. CAUSE
041670
06/22/2020

HR
440 S. CHURCH STREET, SUITE 1000
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TEL: (704) 338-4700

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by Emily Sylvester, Director of Installation Development Division

SATISFACTORY TO DATE 06/19/2020

DES JCC DRW ARM CHK RMB

PMCM SGLRMS

BRANCH MANAGER DLB

CHIEF ENGINEER EJA

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC
MIDLANTIC CORE
MARSOC
CAMP LEJEUNE - JACKSONVILLE, NC
JACKSONVILLE, NORTH CAROLINA

P1395 MARINE RAIDER HEADQUARTERS

OVERALL SITE PLAN AND KEY MAP

SCALE: 1" = 80'

EPROJECT NO.: 1603164

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12794235

SHEET 16 OF 228

CS101

DRAWING REVISION: 17 APRIL 2018

UNCLASSIFIED

STAKE POINT TABLE		
POINT①	N	E
1	303514.85	2468032.15
2	303522.62	2468060.37
3	303528.11	2468079.98
4	303532.35	2468096.87
5	303535.12	2468109.09
6	303538.42	24681126.02
7	303540.84	2468139.68
8	303535.92	2468140.55
9	303510.03	2468033.48
10	303502.38	2468036.00
11	303512.83	2468088.06
12	303480.33	2468073.89
13	303481.70	2468082.84
14	303486.26	2468108.53
15	303496.58	2468037.54
16	303478.79	2468068.09
17	303475.72	2467958.58
18	303534.24	2467942.40
19	303407.74	2468086.87
20	303418.21	2468126.51
21	303158.66	2468253.71

STAKE POINT TABLE		
POINT④	N	E
22	303184.15	2468203.59
23	303027.56	2468321.27
24	302990.09	2468331.05
25	303147.21	2468211.07
26	303137.27	2468208.12
27	303022.50	2468357.87
28	303016.74	2468391.37
29	303028.18	2468386.69
30	303052.79	2468418.85
31	303052.24	2468455.99
32	303040.59	2468440.77
33	302930.72	2468548.96
34	302921.61	2468537.05
35	302914.60	2468536.11
36	302893.95	2468551.91
37	302893.02	2468558.92
38	302902.13	2468570.83
39	302766.32	2468674.74
40	302757.21	2468662.83
41	302750.27	2468661.84
42	302730.35	2468677.09

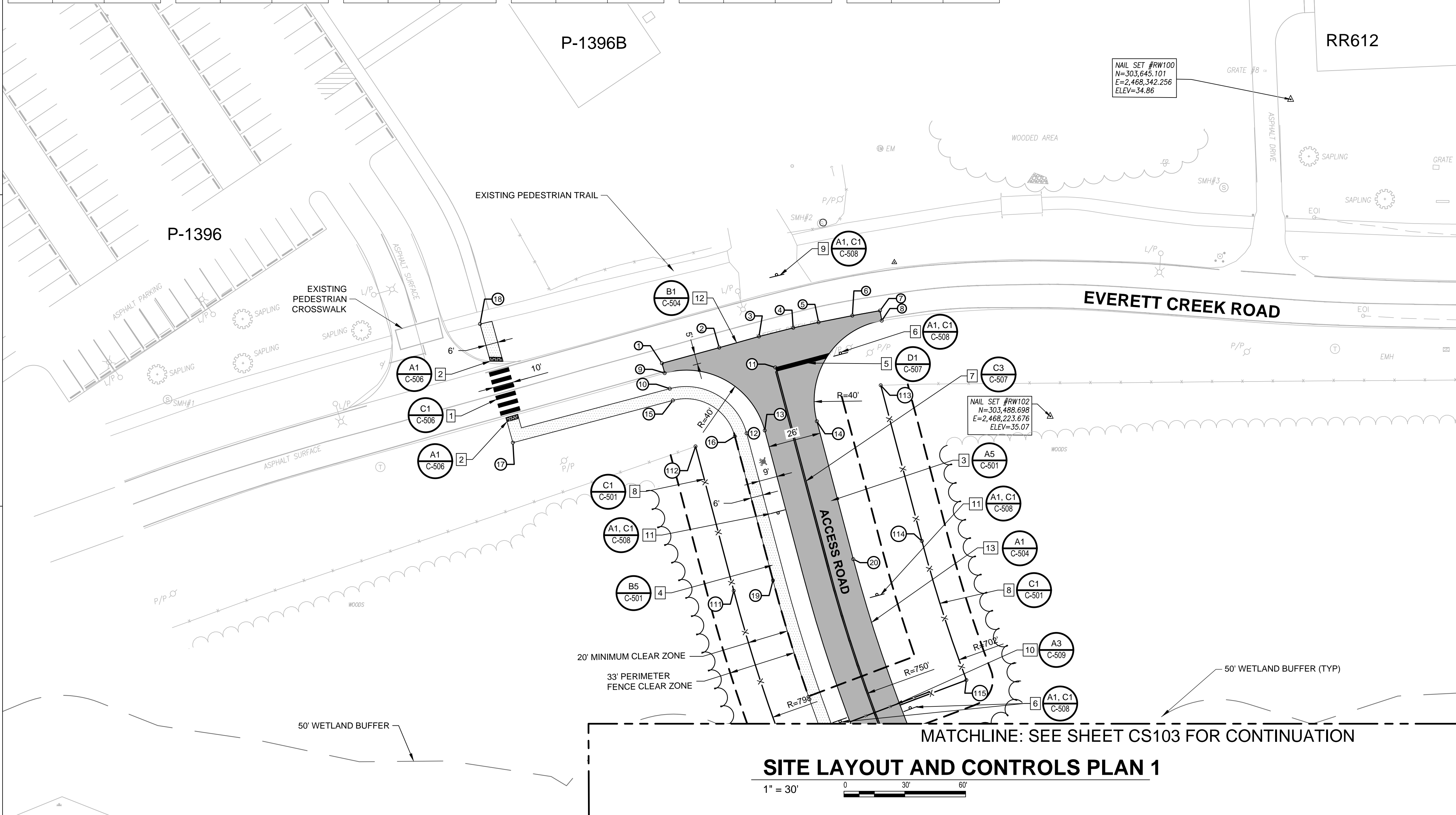
STAKE POINT TABLE		
POINT①	N	E
43	302670.19	2468598.46
44	302685.87	2468585.21
45	302690.19	2468576.87
46	302678.64	2468561.77
47	302816.04	2468456.65
48	302825.76	2468469.36
49	302831.37	2468470.10
50	302852.02	2468454.31
51	302852.76	2468448.70
52	302843.04	2468435.99
53	302929.61	2468369.76
54	302939.33	2468382.47
55	302946.34	2468383.40
56	302951.01	2468348.36
57	302863.68	2468234.20
58	302820.30	2468224.13
59	302799.38	2468239.33
60	302825.14	2468186.78
61	302835.79	2468176.29
62	302844.95	2468166.84
63	302809.07	2468249.44

STATE POINT TABLE		
POINT①	N	E
64	302823.63	2468238.30
65	302896.72	2468333.81
66	302834.03	2468381.78
67	302834.75	2468399.84
68	302783.18	2468439.30
69	302703.25	2468481.85
70	302630.16	2468386.33
71	302678.03	2468349.71
72	302691.29	2468339.56
73	302667.03	2468307.84
74	302625.63	2468380.40
75	302674.69	2468345.34
76	302765.94	2468433.88
77	302816.36	2468445.70
78	302832.25	2468433.55
79	302801.40	2468425.36
80	302970.32	2468422.97
81	302884.55	2468488.60
82	302875.43	2468476.68
83	302847.77	2468491.55
84	302846.84	2468498.56

STAKE POINT TABLE		
POINT①	N	E
85	302855.95	2468510.47
86	302755.88	2468587.03
87	302746.77	2468575.12
88	302755.74	2468593.43
89	302739.57	2468574.35
90	302769.93	2468614.04
91	302771.07	2468606.88
92	302761.96	2468594.97
93	302862.03	2468518.41
94	302871.14	2468530.33
95	302898.80	2468515.46
96	302899.74	2468508.45
97	302890.62	2468496.54
98	302976.40	2468430.92
99	302985.51	2468442.83
100	302992.52	2468443.76
101	302977.33	2468423.91
102	302962.14	2468404.05
103	302952.22	2468307.15
104	302921.10	2468266.48
106	302591.39	2468335.65

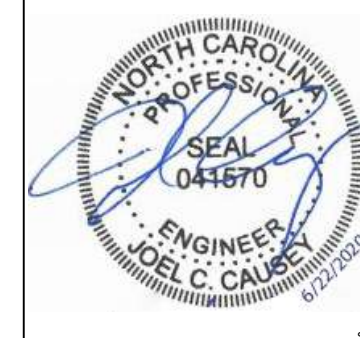
STAKE POINT TABLE		
POINT	N	E
107	302784.85	2468187.60
110	303324.66	2468092.47
111	303402.63	2468067.53
112	303473.85	2468048.71
113	303504.02	2468140.04
114	303427.15	2468160.34
115	303358.56	2468182.29
125	302960.57	2468186.10
126	303067.12	2468207.10
127	303098.18	2468220.02
128	303103.77	2468262.96
129	303077.11	2468183.10
130	302898.09	2468126.19
131	302923.81	2468159.81
132	302925.01	2468161.38
133	302926.83	2468162.15
134	302816.60	2468243.68
135	302799.33	2468206.54
136	302679.13	2468322.66
137	302633.86	2468358.30
138	302954.65	2468355.01

STAKE POINT TABLE		
POINT⑤	N	E
139	302947.56	2468360.44
140	302900.23	2468392.24
141	302910.55	2468405.74
142	302909.99	2468409.95
143	302905.23	2468413.60
144	302901.02	2468413.04
145	302890.39	2468399.14
146	302940.26	2468350.91
147	302933.91	2468355.77
148	302886.26	2468392.23
149	302765.02	2468496.94
150	302774.74	2468509.65
151	302774.18	2468513.85
152	302773.39	2468514.46
153	302769.18	2468513.90
154	302759.46	2468501.19
155	302771.89	2468479.72
156	302724.23	2468516.18
157	302813.36	2468246.16



GENERAL SHEET NOTES

- A. SEE LEGEND ON SHEET C-001.
- B. RADII ARE 5 FEET TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- C. CURBING SHALL BE CAST-IN-PLACE ON-SITE.
- D. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS ASSOCIATED WITH THE BUILDING.
- E. ALL DIMENSIONS ARE TO FACE OF THE BUILDING, FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
- F. ALL SIGNS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED. ALL SIGNAGE TO MEET MUTCD STANDARDS UNLESS OTHERWISE INDICATED. SEE DETAIL C1/C-508 FOR INSTALLATION DETAIL AND A1/C-508 FOR SIGN IDENTIFICATION, SIZE, AND QUANTITY.



NEW WORK KEYNOTES

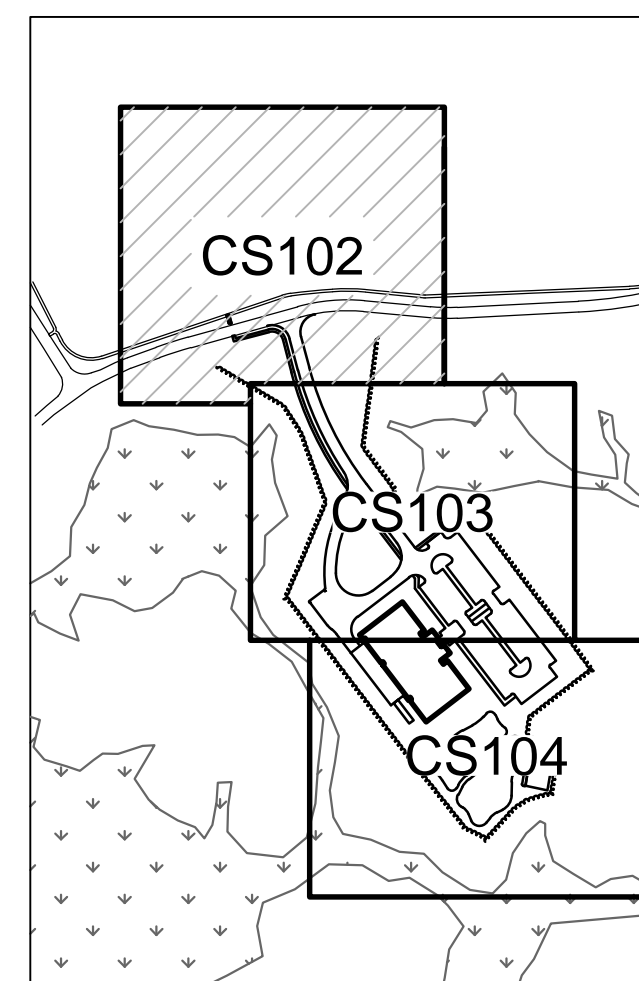
1. PEDESTRIAN CROSS WALK PAVEMENT MARKING, HI-VISIBILITY.
2. ADA RAMPS WITH DETECTABLE WARNING DOMES (TYP.)
3. HEAVY DUTY ASPHALT.
4. LIGHT DUTY ASPHALT WALKING/RUNNING TRAIL.
5. 24" THERMOPLASTIC WHITE STOP BAR.
6. STOP SIGN: MUTCD STANDARD R1-1
7. 4" THERMOPLASTIC DOUBLE YELLOW LINE
8. CHAIN LINK SECURITY FENCE.
9. TWO-DIRECTION LARGE ARROW SIGN: MUTCD STANDARD W1-7.
10. SLIDING GATE.
11. STOP AHEAD SIGN: W3-1.
12. TIE NEW ASPHALT ROADWAY TO EXISTING ASPHALT ROADWAY.
13. PAVEMENT EDGE.



440 S. CHURCH STREET, SUITE 1000
CHARLOTTE, NC 28202
TEL (704)338-6700

APPROVED		AE INFO	
FOR COMMANDER NAVFAC			
ACTIVITY			
Approved by Emily Sylvester, Director of Installation Development Division			
SATISFACTORY TO DATE		06/19/2020	
DES	JCC	DRW	ARM
		CHK	RMB
PMIDM		SGL/RMS	
BRANCH MANAGER		DLB	
CHIEF ENGARCH		EJA	

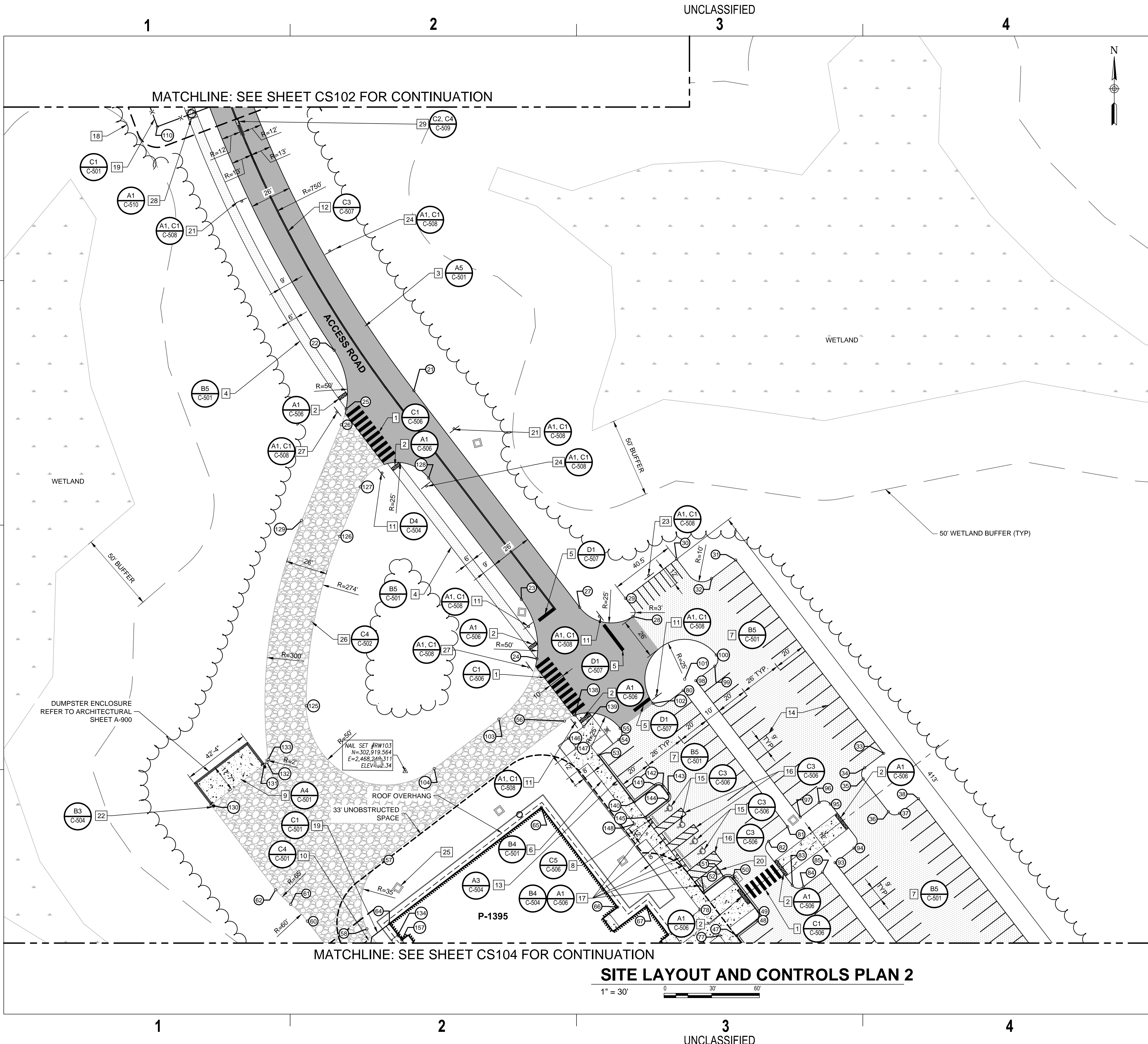
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC
MILITANT CIO CORE
CAMP LEJEUNE - JACKSONVILLE, NC
MARSOC
JACKSONVILLE, NORTH CAROLINA
P1395 MARINE RAIDER HEADQUARTERS
SITE LAYOUT AND CONTROLS PLAN 1



KEYMAP

NOT TO SCALE

SCALE:	1" = 30'
EPROJECT NO.:	1603164
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12794236
SHEET	17 OF 228
CS102	



GENERAL SHEET NOTES

A. SEE LEGEND ON SHEET C-001.

B. RADII ARE 5 FEET TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

C. CURBING SHALL BE CAST-IN-PLACE ON-SITE.

D. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS ASSOCIATED WITH THE BUILDING.

E. ALL DIMENSIONS ARE TO FACE OF THE BUILDING, FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.

F. ALL SIGNS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED. ALL SIGNAGE TO MEET MUTCD STANDARDS UNLESS OTHERWISE INDICATED. SEE DETAIL C1/C-508 FOR INSTALLATION DETAIL AND A1/C-508 FOR SIGN IDENTIFICATION, SIZE, AND QUANTITY.

G. SEE SHEET CS102 FOR STAKE POINT TABLE.

NEW WORK KEYNOTES

1. PEDESTRIAN CROSS WALK PAVEMENT MARKING, HI-VISIBILITY.

2. ADA RAMPS WITH DETECTABLE WARNING DOMES.

3. HEAVY DUTY ASPHALT.

4. LIGHT DUTY ASPHALT WALKING/RUNNING TRAIL.

5. 24" THERMOPLASTIC WHITE STOP BAR.

6. CONCRETE SIDEWALK WITH WALK JOINTS. SEE LANDSCAPE PLANS FOR SIDEWALK SCORING.

7. LIGHT DUTY ASPHALT.

8. CONCRETE WHEELSTOP, TYP.

9. HEAVY DUTY CONCRETE PAVEMENT.

10. 4' WIDE MAN GATE.

11. STOP SIGN: MUTCD STANDARD R1-1, 4-WAY SIGN BELOW: MUTCD STANDARD R1-3.

12. 4" THERMOPLASTIC DOUBLE YELLOW LINE.

13. 18" CURB AND GUTTER.

14. 4" THERMOPLASTIC WHITE LINE (TYP)

15. HANDICAP PARKING SYMBOL (TYP).

16. HANDICAP PAINTED ISLAND (TYP).

17. HANDICAP PARKING SIGNS: MUTCD STANDARD R7-8 AND R7-8P (TYP).

18. TREELINE SHOWN OFFSET FROM LIMITS OF DISTURBANCE FOR GRAPHICAL CLARITY. NO DISTURBANCE IS TO OCCUR WITHIN THE 50' WETLAND BUFFER.

19. CHAIN LINK SECURITY FENCE.

20. VAN ACCESSIBLE SPACE: SEE KEYNOTE 17 THIS SHEET.

21. 25 MPH SPEED LIMIT SIGN: MUTCD STANDARD R2-1.

22. BOLLARD (TYP.). REFER TO ARCHITECTURAL SHEET A-900 FOR BOLLARD PLACEMENT WITHIN DUMPSTER ENCLOSURE.

23. MOTORCYCLE PARKING ONLY SIGN: MUTCD STANDARD R7-5-16.

24. STOP AHEAD SIGN: MUTCD STANDARD W3-1.

25. STORM STRUCTURE (TYP), REFER TO SHEETS CG101 THROUGH CG103 FOR MORE INFORMATION.

26. AGGREGATE TRUCK LOOP PAVEMENT.

27. AUTHORIZED VEHICLES ONLY SIGN: MUTCD STANDARD R5-11.

28. PEDESTRIAN TURNSTILE.

29. STANCHION.

KEYMAP

NOT TO SCALE

CS102

CS103

CS104

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC

MIDLANTIC DIVISION

MARSOC

P1395 MARINE RAIDER HEADQUARTERS

CAMP LEJEUNE - JACKSONVILLE, NC

JACKSONVILLE, NORTH CAROLINA

SCALE: 1" = 30'

PROJECT NO.: 1603164

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12794237

SHEET 18 OF 228

CS103

DRAWING REVISION: 17 APRIL 2018

UNCLASSIFIED

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by Emily Sylvester, Director of Installation Development Division

SATISFACTORY TO DATE: 06/19/2020

DES JCC DRW ARM CHK RMB

PHDMM SGURMS

BRANCH MANAGER: DLB

CHIEF ENGINEER: EJA

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND

NAVFAC

SEAL

ENGINEER

MODEL C. GAUSE

6/22/2020

APPR

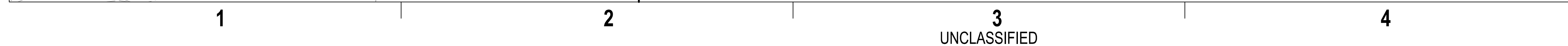
DATE

DESCRIPTION

SYM

1 2 3 4 5

UNCLASSIFIED



CG101

- DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC
CAMP LEJEUNE - JACKSONVILLE, NC
MILITANT CI CORE
JACKSONVILLE, NORTH CAROLINA
MARSOC
P1395 MARINE RAIDER HEADQUARTERS



R COMMANDER NAVFAC

Approved by Emily Sylvester, Director
Installation Development Division

DISFACTORY TO DATE	06/19/2020
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JCC	DRW	ARM	CHK	RM
SCL/RMS				

ANCH MANAGER DLB

EF ENGI/ARCH EJA

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FILE:	1" = 30'
PROJECT NO.:	1603164

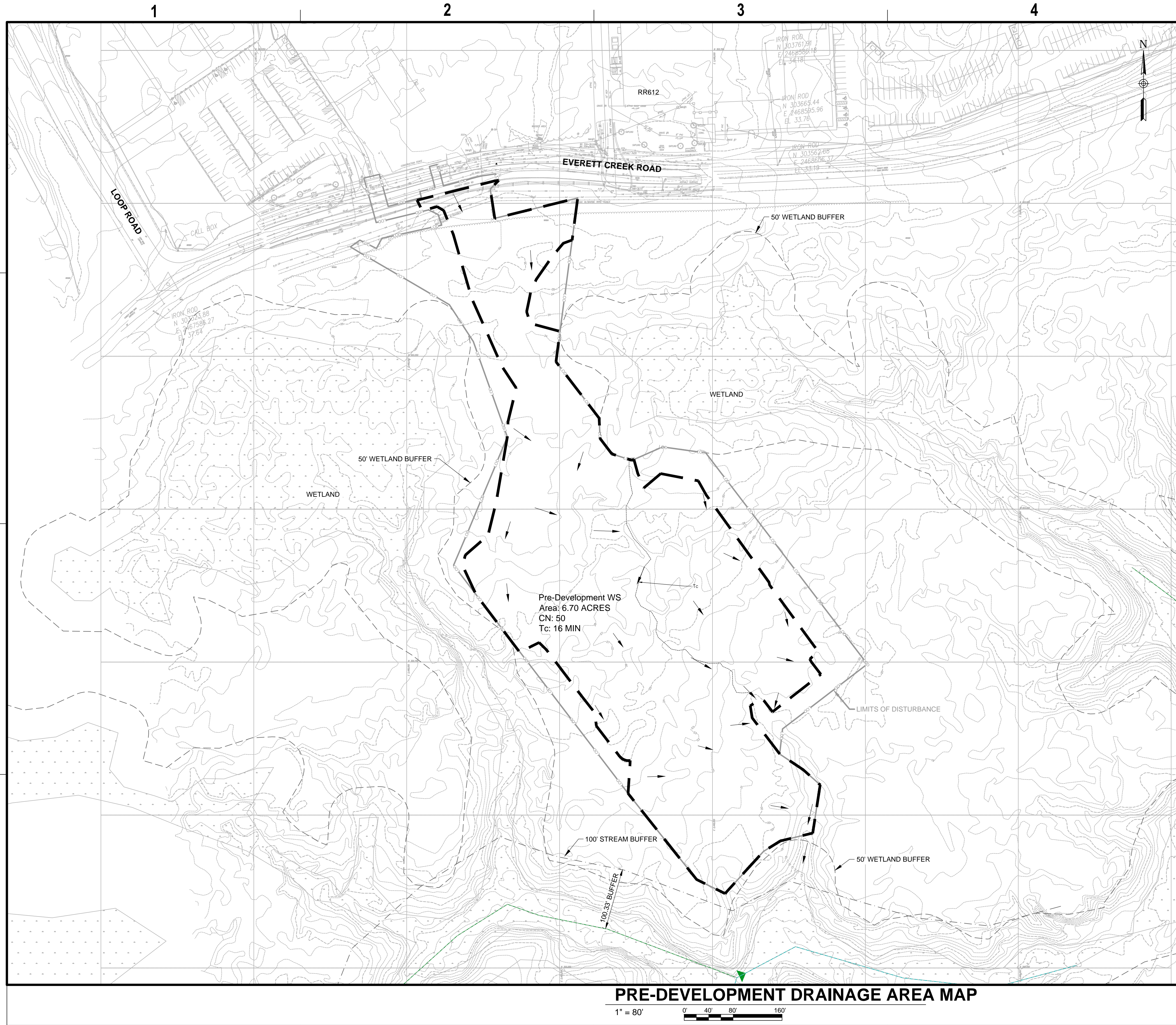
INSTR. CONTR. NO.

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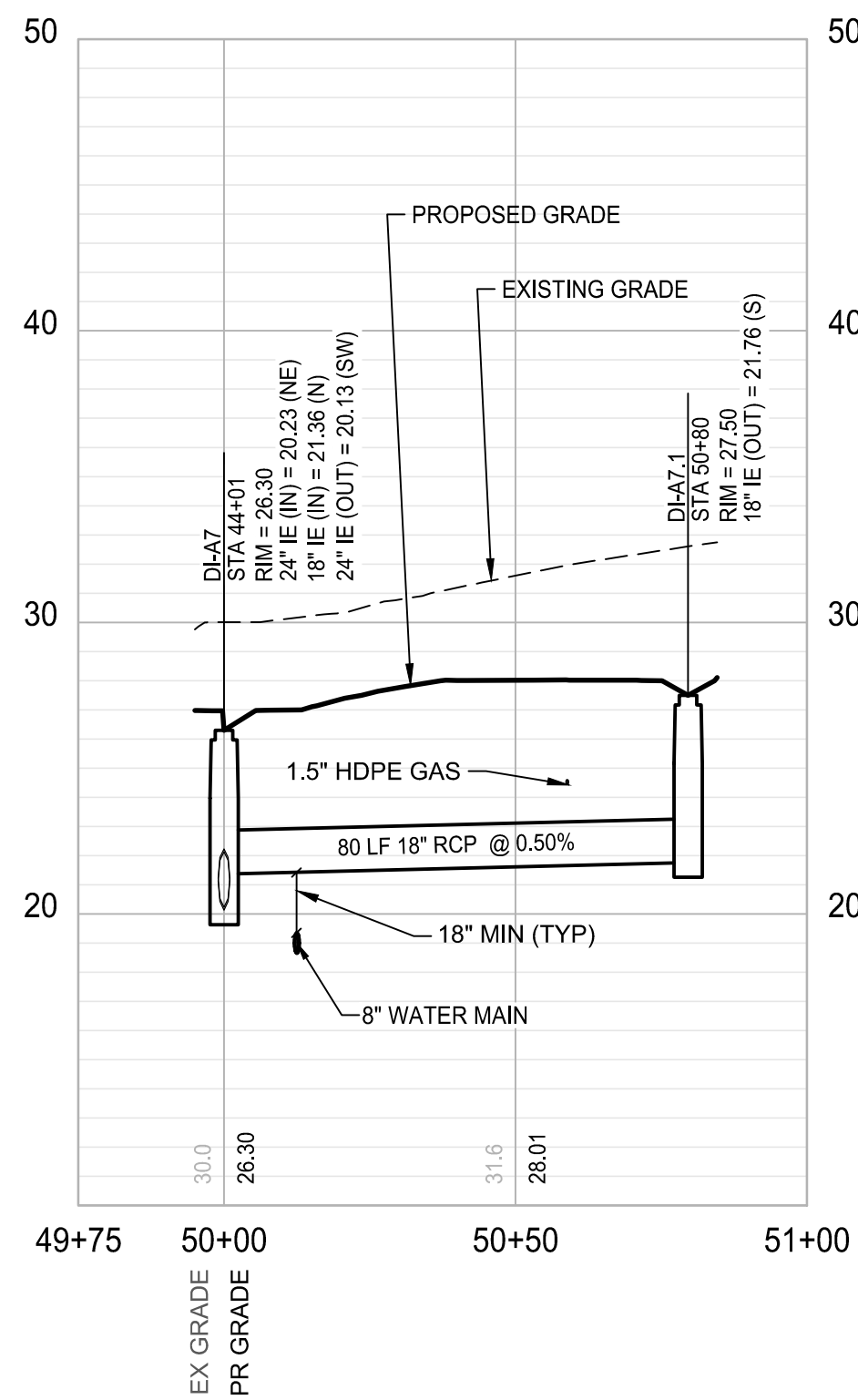
PAGE 20 OF 228

CG101

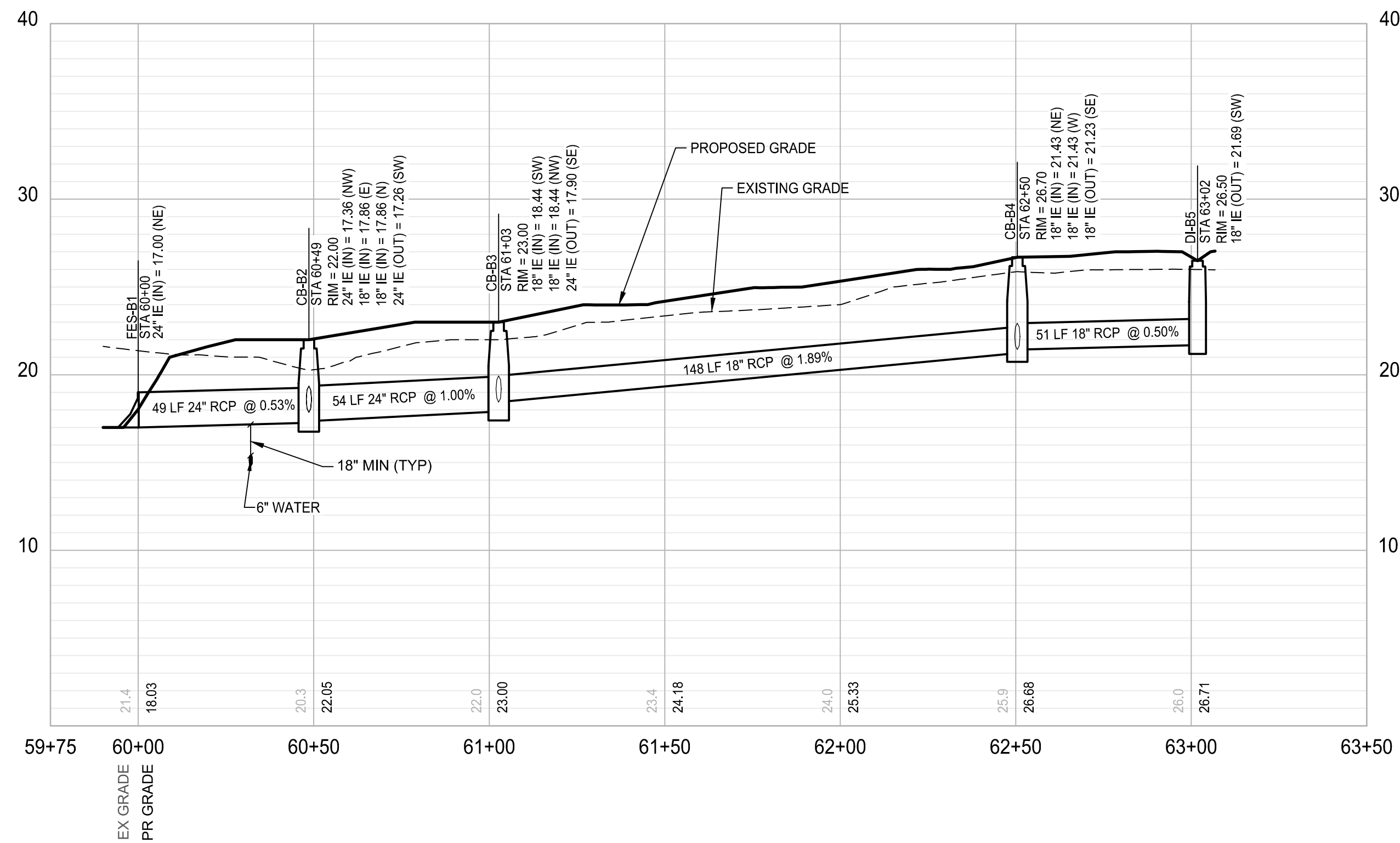
DRAWFORM REVISION: 17 APRIL 2018

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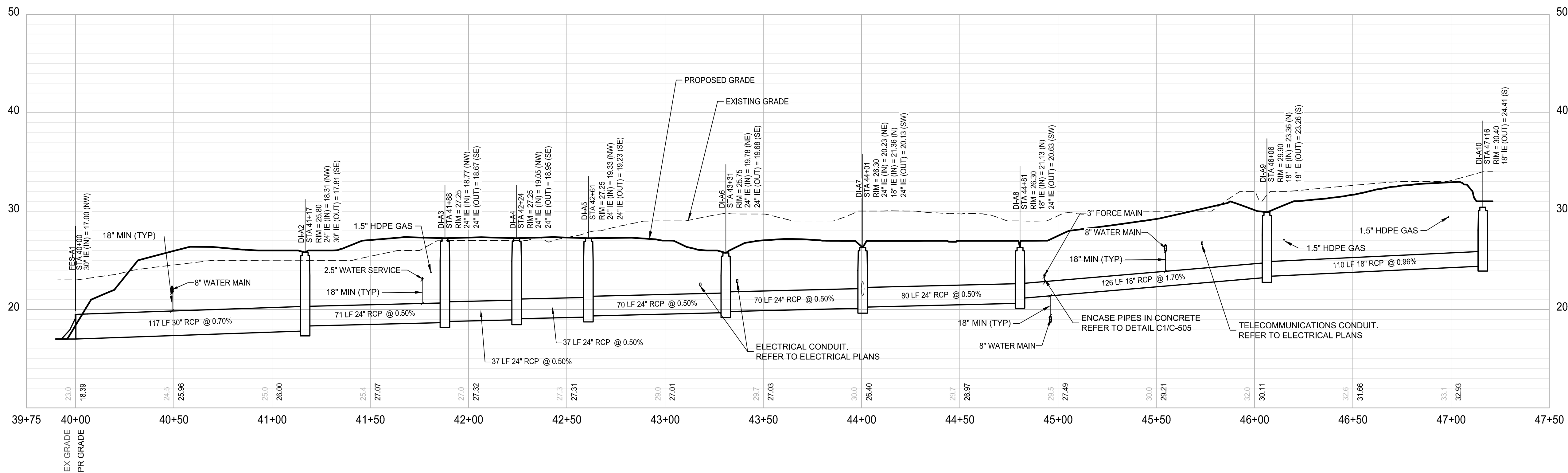
A



C1 STORM "A7" PROFILE



C3 STORM "B" PROFILE



A1 STORM "A" PROFILE

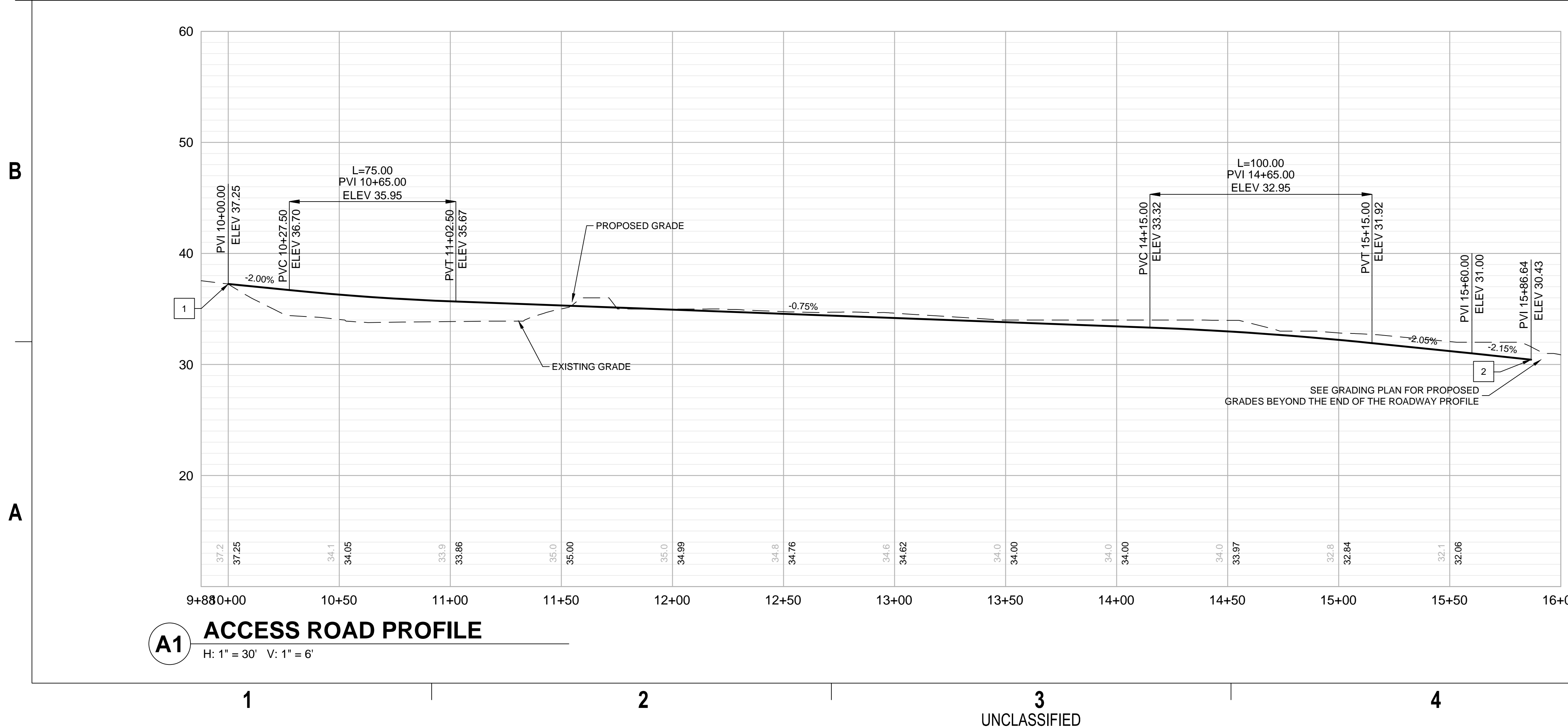
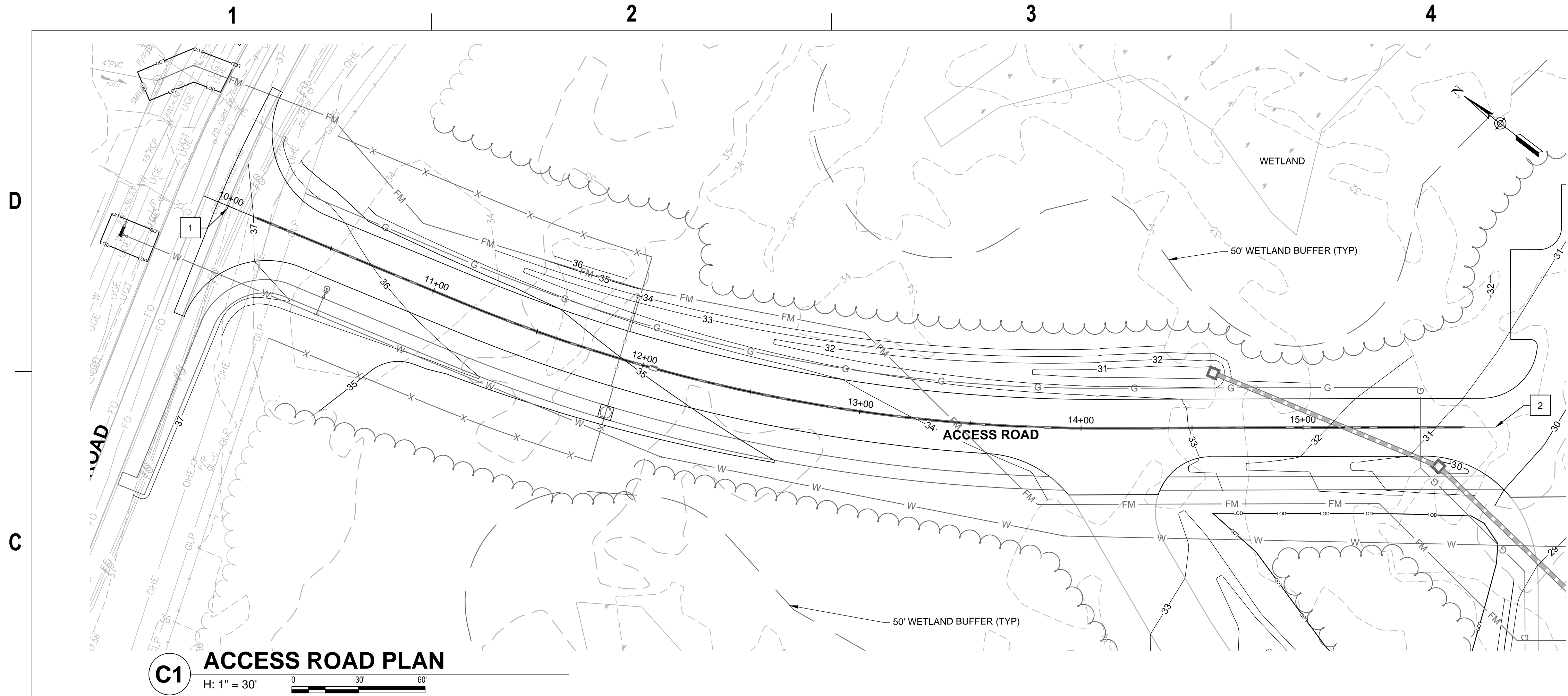
NOTE: ALL STORM DRAINAGE PIPE TO BE CLASS III RCP UNLESS OTHERWISE INDICATED.

[illegible]

UNCLASSIFIED

B

A

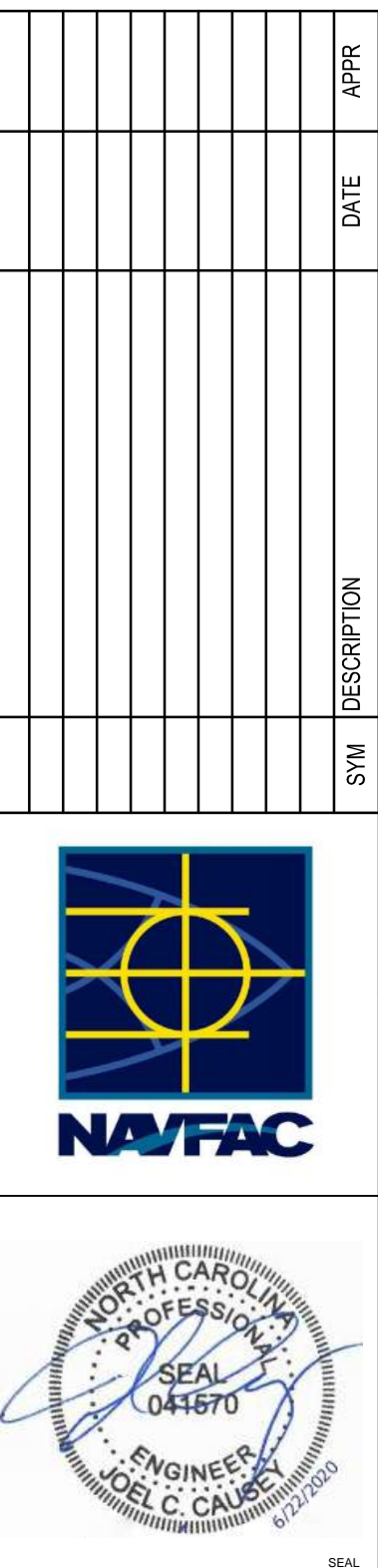


GENERAL SHEET NOTES

A. SEE CIVIL LEGEND ON SHEET C-001.

NEW WORK KEYNOTES

1. START ROADWAY ALIGNMENT STA. 10+00.
2. END ROADWAY ALIGNMENT STA 15+86.64



APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by Emily Sylvester, Director of Installation Development Division

SATISFACTORY TO DATE 06/19/2020

DES JCC DRW ARM CHK RMB

PMCM SGLRMS

BRANCH MANAGER DLB

CHIEF ENGINEER EJA

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MIDLAND CL CORE
MARSOC

NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC
CAMP LEJEUNE - JACKSONVILLE, NC
JACKSONVILLE, NORTH CAROLINA

P 1395 MARINE RAIDER HEADQUARTERS

ACCESS ROADWAY PLAN AND PROFILE 1

SCALE: AS NOTED

PROJECT NO.: 1603164

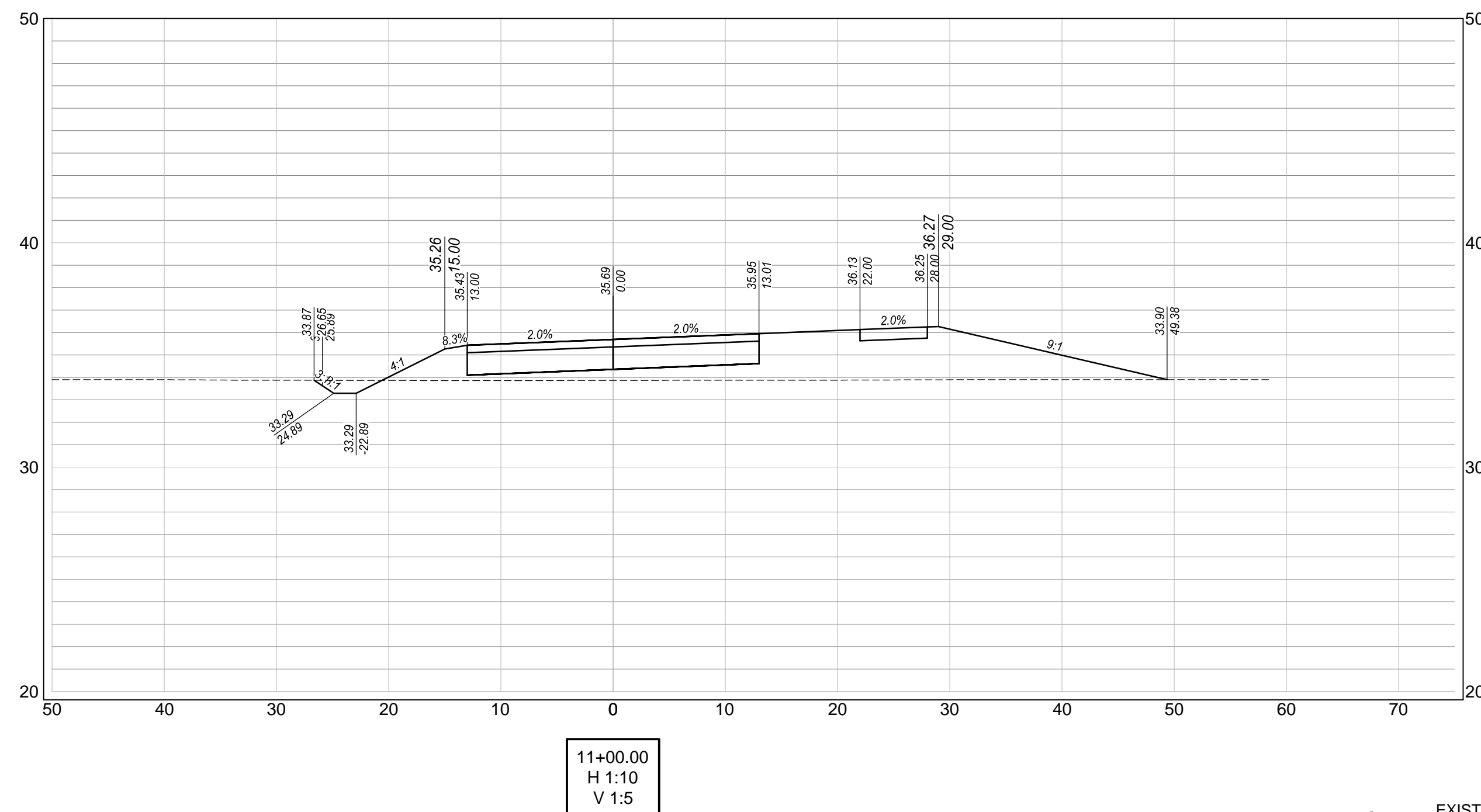
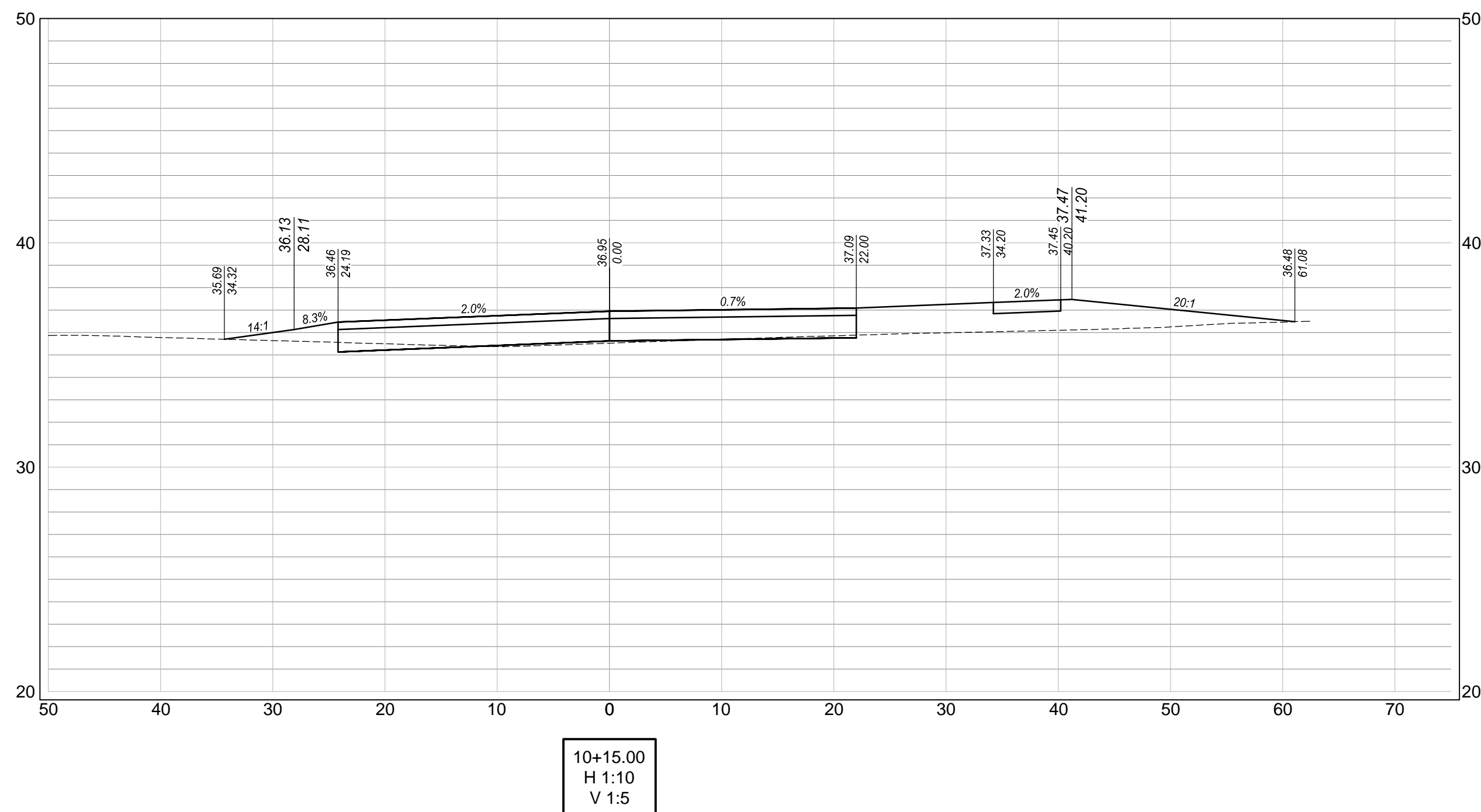
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12794247

SHEET 28 OF 228

CS201

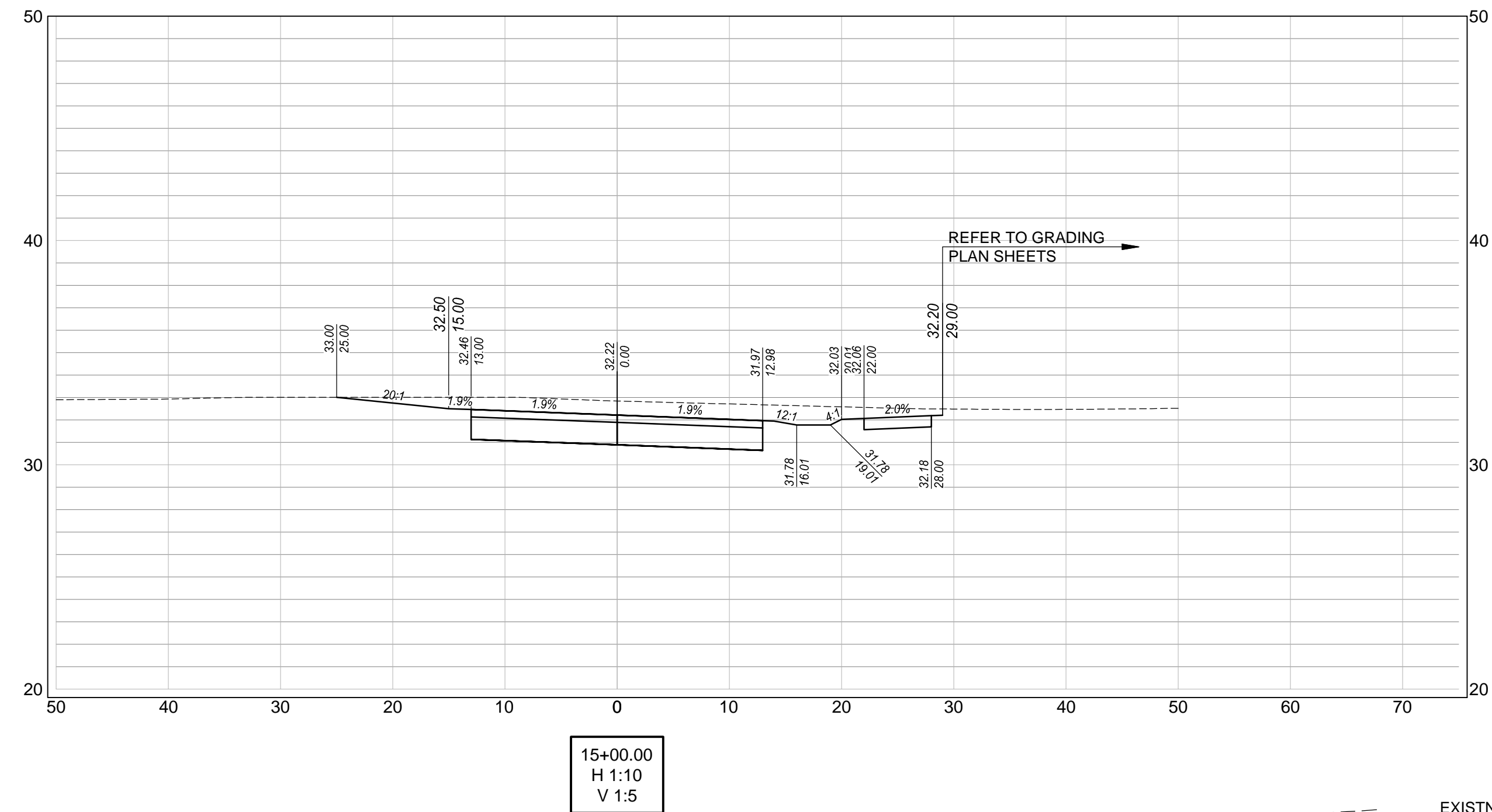
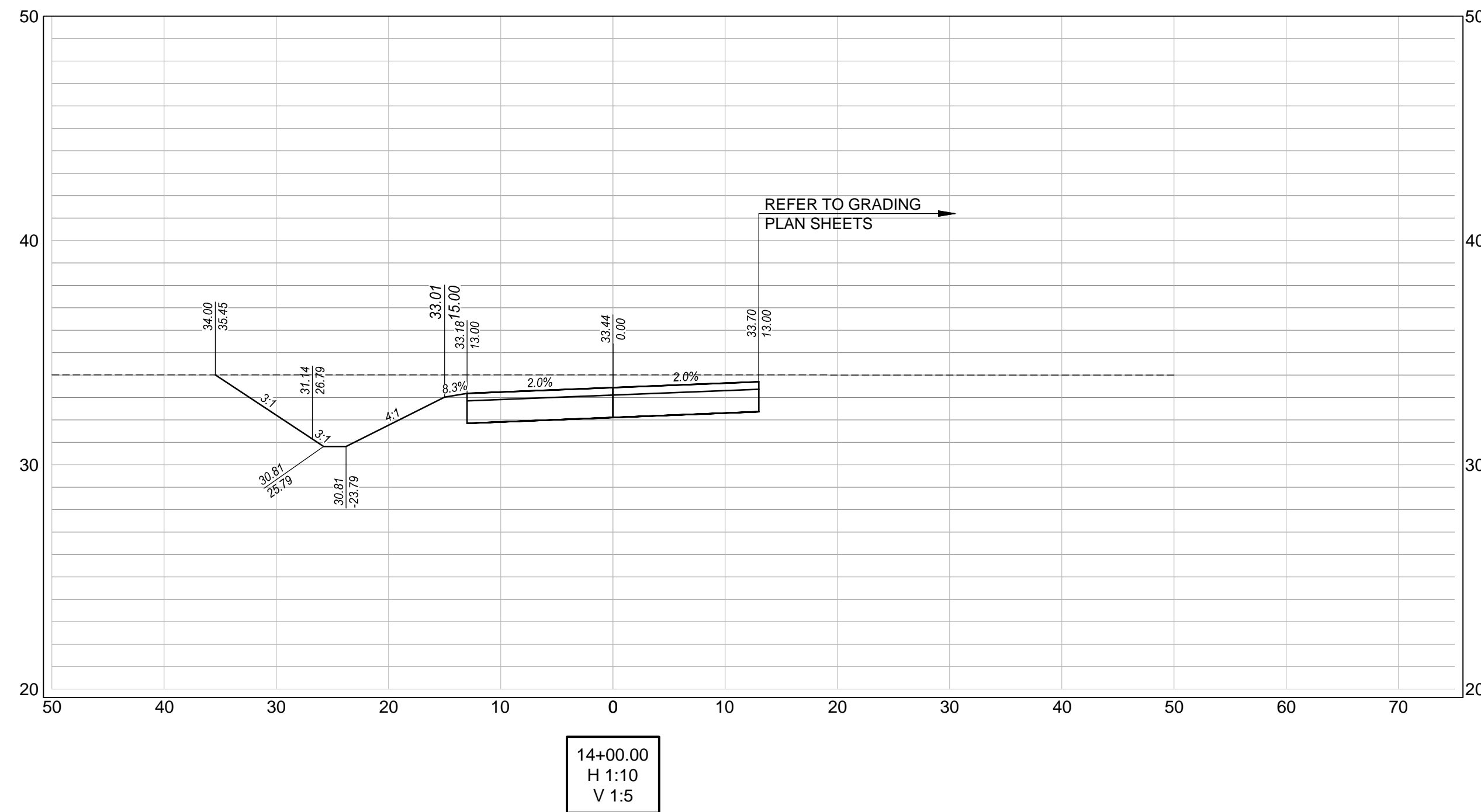
DRAWING REVISION: 17 APRIL 2018



EXISTNG GRADE

PROPOSED GRADE

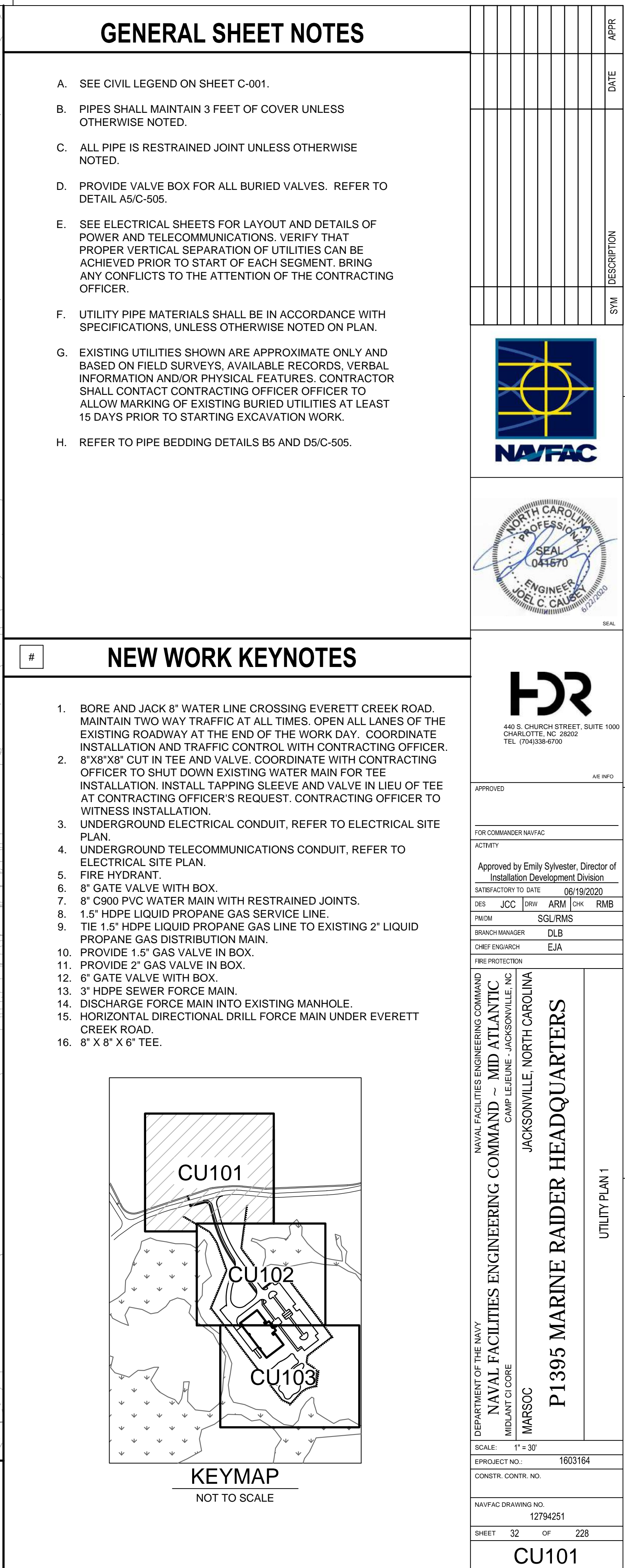
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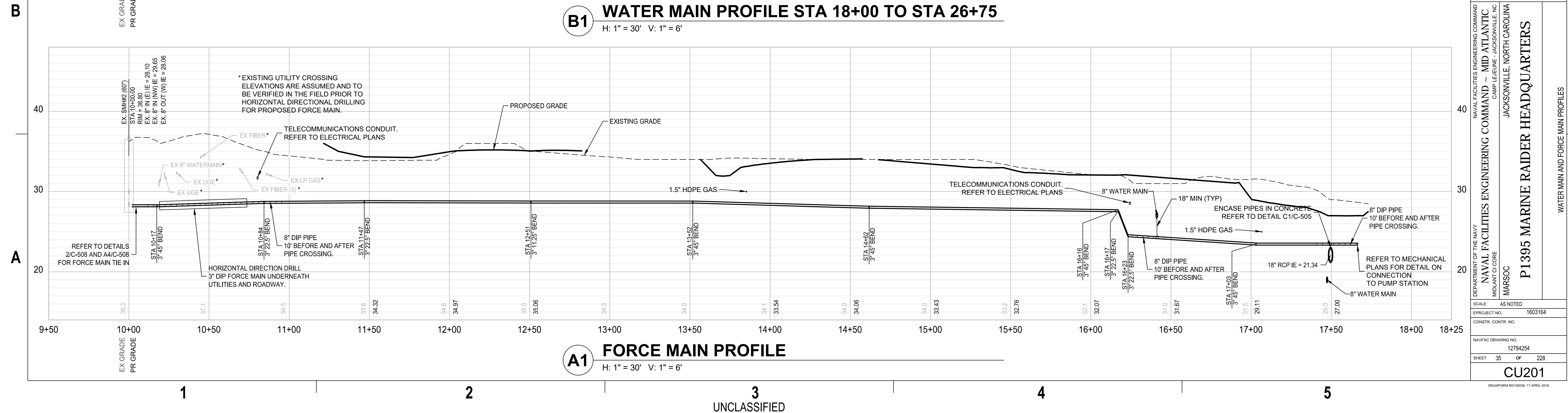


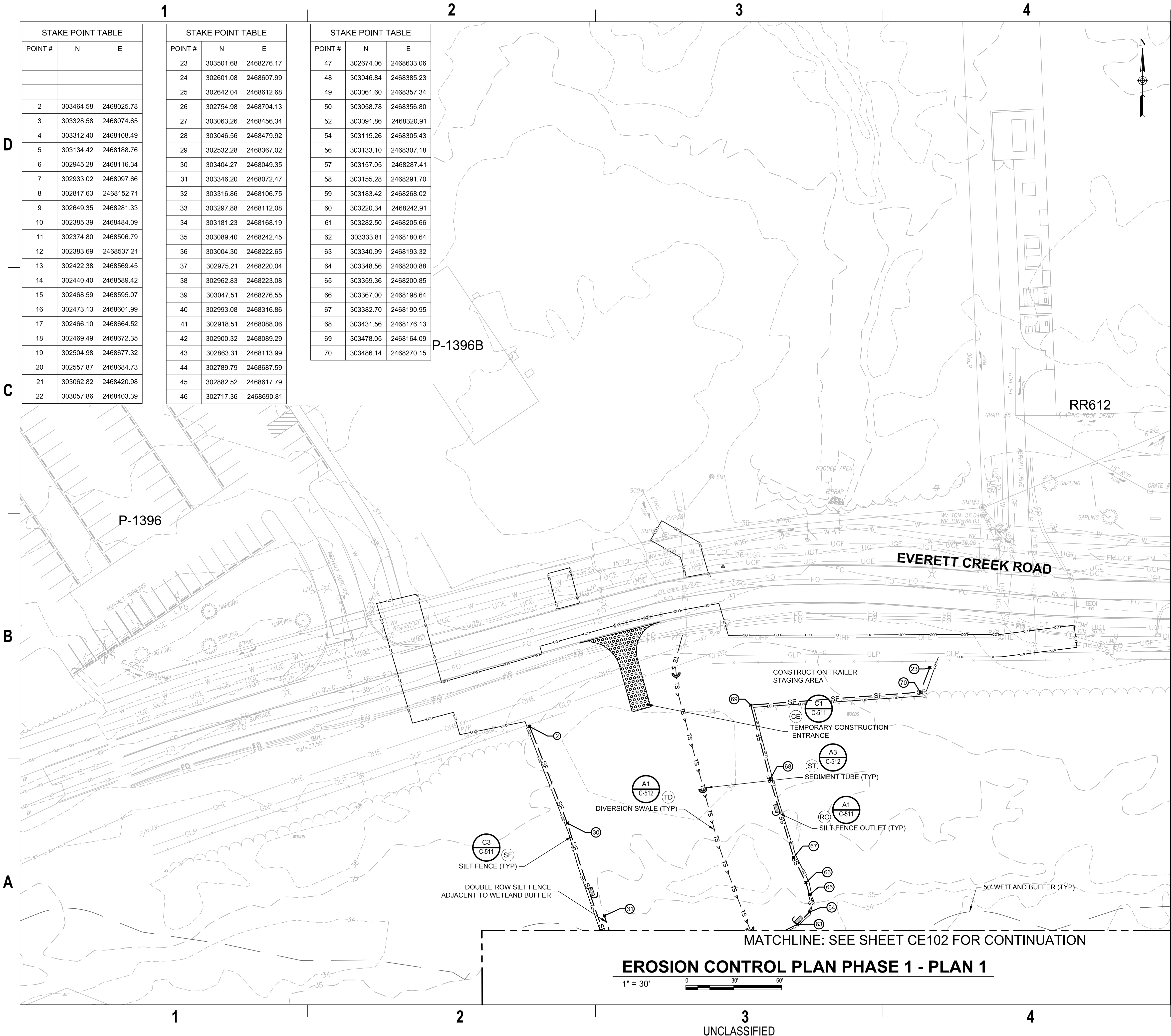
EXISTING GRADE

PROPOSED GRADE

[illegible]







5

UNCLASSIFIED

GENERAL SHEET NOTES

A. SEE LEGEND AND GENERAL NOTES ON SHEET C-001 .

B. SEE EROSION CONTROL NOTES, CONSTRUCTION SEQUENCE, AND SEEDING SPECIFICATIONS ON SHEET C-514.

C. SEE SHEET C-515 FOR NCG01 GROUND STABILIZATION AND MATERIALS HANDLING, AND NCG01 SELF INSPECTION SHEET.

D. SEE SHEETS C-511 THROUGH C-515 FOR EROSION CONTROL NOTES AND DETAILS.

E. NO EARTHWORK/LAND DISTURBANCE SHALL BE PERFORMED UNTIL ALL PHASE EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE AND HAVE BEEN INSPECTED.

F. EQUIPMENT AND/OR TRUCK TIRE CLEANING STATIONS(S) SHALL BE ESTABLISHED AS NECESSARY TO ENSURE THAT NO MUD/SEDIMENT MIGRATES FROM THE CONSTRUCTION SITE TO THE BASE ROADS.

G. SOD (SAND BASED CENTIPEDE) ALL DISTURBED PVIOUS AREAS WITHIN THE LIMITS OF DISTURBANCE ONCE BROUGHT TO FINISHED GRADE UNLESS OTHERWISE SPECIFIED. SEE LANDSCAPE PLANS FOR MORE INFORMATION.

H. TOTAL LAND DISTURBANCE = 8.0 ACRES

I. PLAN DOES NOT SHOW LOCATION OR DIMENSIONS OF GEOSYNTHETIC REINFORCED AGGREGATE HAUL ROADS AND WORKING PLATFORMS. LOCATION, DIMENSIONS AND DETAILS TO BE DETERMINED BY CONTRACTOR.

J. THIS PROJECT DRAINS INTO EVERETT CREEK WHICH DRAINS INTO THE NEW RIVER. THE PROJECT IS LOCATED IN THE WHITE OAK RIVER BASIN.

K. CONTRACTOR MUST ENSURE REQUIRED MAINTENANCE OF EROSION CONTROL MEASURES. CONTRACTING OFFICER WILL BE NCDEQ CONTACT FOR EROSION CONTROL MAINTENANCE.

EROSION AND SEDIMENT CONTROL LEGEND

CE		CONSTRUCTION ENTRANCE
SF		SILT FENCE
TD		TEMPORARY DIVERSION DITCH
ST		SEDIMENT TUBE
RO		SILT FENCE ROCK OUTLET
IP		INLET PROTECTION
		DROP INLET PROTECTION
		CATCH BASIN INLET PROTECTION
OP		OUTLET PROTECTION
SB		SEDIMENT BAFFLES
LS		LEVEL SPREADER/VEGETATED FILTER STRIP
		LIMITS OF DISTURBANCE
SD		SLOPE DRAIN

KEYMAP

NOT TO SCALE

CE101

CE102

CE103

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC

MIDLAND CI CORP

MARSOC

P1395 MARINE RAIDER HEADQUARTERS

JACKSONVILLE, NORTH CAROLINA

EROSION CONTROL PLAN PHASE 1 - PLAN 1

SCALE: 1" = 30'

EPROJECT NO.: 1603164

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12794255

SHEET 36 OF 228

CE101

DRAWING REVISION: 17 APRIL 2018

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by Emily Sylvester, Director of Installation Development Division

SATISFACTORY TO DATE 06/19/2020

DES JCC DRW ARM CHK RMB

PMCM SGURMS

BRANCH MANAGER DLB

CHIEF ENGINEER EJA

FIRE PROTECTION

APPR

DATE

DESCRIPTION

SYM

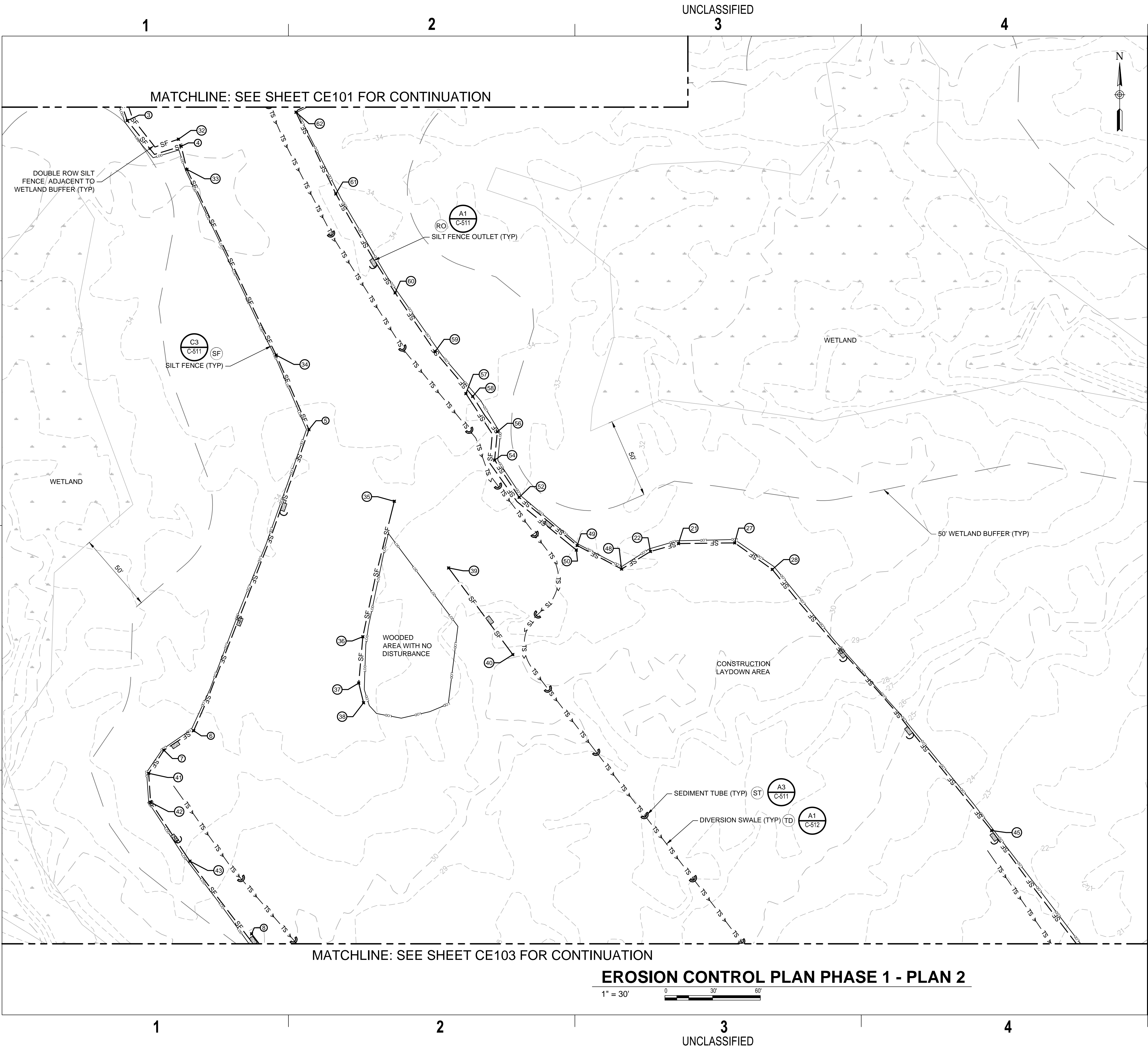
SEAL

NAVAC

NAVAC PROFESSIONAL SEAL 04570

ENGINEER MICHAEL C. GAUSE

17/2020



5

GENERAL SHEET NOTES

A. SEE LEGEND AND GENERAL NOTES ON SHEET C-001 .

B. SEE EROSION CONTROL NOTES ON SHEET CE101.

C. SEE SHEET CE101 STAKE POINT TABLE.

EROSION AND SEDIMENT CONTROL LEGEND

CE	CONSTRUCTION ENTRANCE
SF	SILT FENCE
TD	TEMPORARY DIVERSION DITCH
ST	SEDIMENT TUBE
RO	SILT FENCE ROCK OUTLET
IP	INLET PROTECTION
OP	OUTLET PROTECTION
SB	SEDIMENT BAFFLES
LS	LEVEL SPREADER/VEGETATED FILTER STRIP
	LIMITS OF DISTURBANCE
SD	SLOPE DRAIN

CE101

CE102

CE103

KEYMAP

NOT TO SCALE

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by Emily Sylvester, Director of Installation Development Division

SATISFACTORY TO DATE 06/19/2020

DES JCC DRW ARM CHK RMB

PMCM SGLRMS

BRANCH MANAGER DLB

CHIEF ENGINEER EJA

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC

CAMP LEJEUNE - JACKSONVILLE, NC

JACKSONVILLE, NORTH CAROLINA

P1395 MARINE RAIDER HEADQUARTERS

EROSION CONTROL PLAN PHASE 1 - PLAN 2

SCALE: 1" = 30'

PROJECT NO.: 1603164

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12794256

SHEET 37 OF 228

CE102

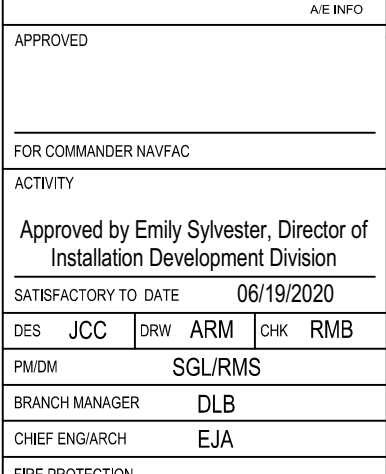
DRAWN/REVISION: 17 APRIL 2018

A. SEE LEGEND AND GENERAL NOTES ON SHEET C-001.

B. SEE EROSION CONTROL NOTES ON SHEET CE101.

C. AREA FLOWING TO SKIMMER BASIN:
DISTURBED = 7.24 ACRES
UNDISTURBED = 0.07 ACRE
TOTAL: 7.31 ACRES

D. SEE SHEET CE101 FOR STAKE POINT TABLE.

[illegible]

NAVAL FACILITIES ENGINEERING COMMAND
MIMAND ~ MID ATLANTIC
CAMP LEJEUNE - JACKSONVILLE, NC

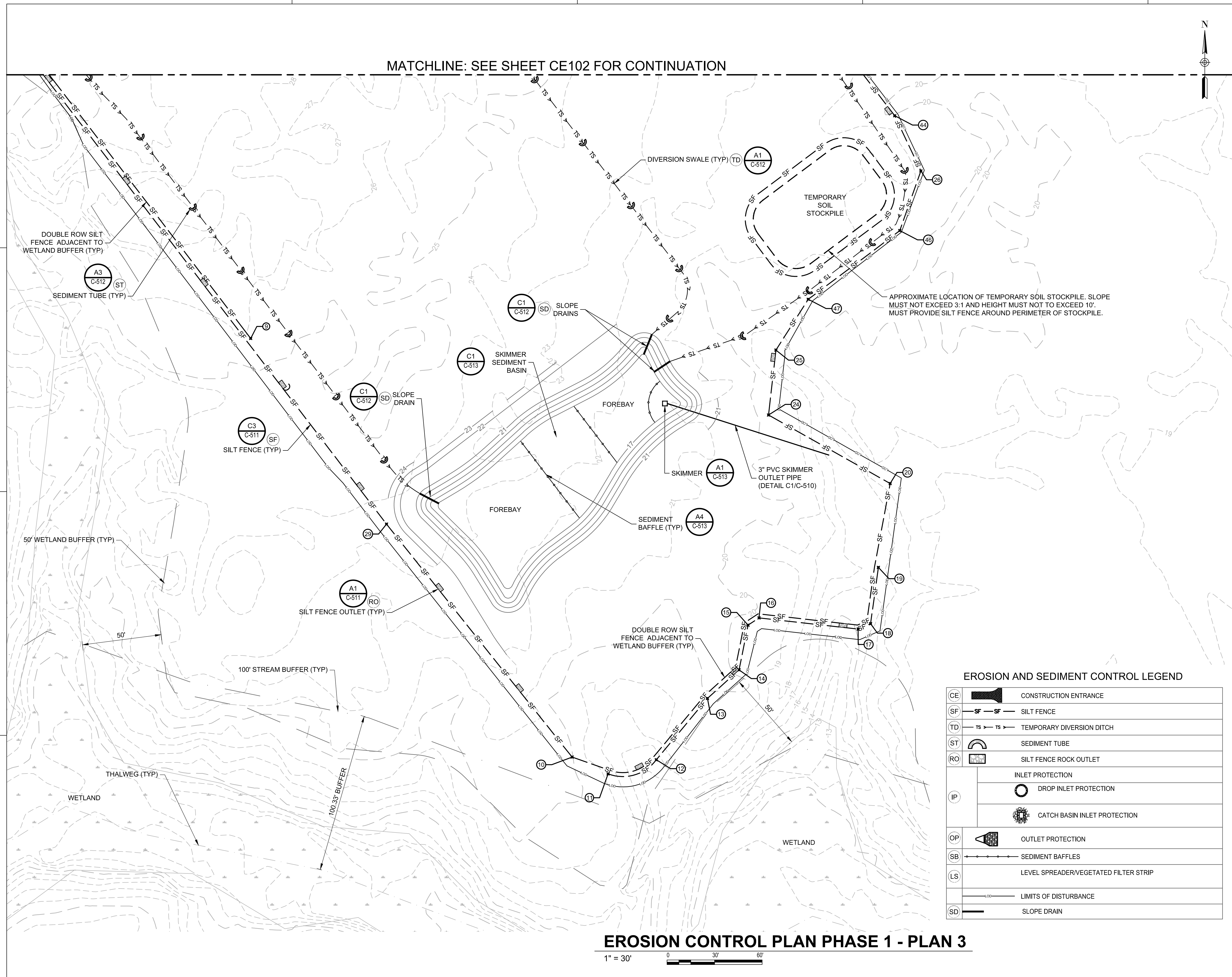
P1395 MARINE RAIDER HEADQUARTERS

EROSION CONTROL PLAN PHASE 1 - PLAN 3

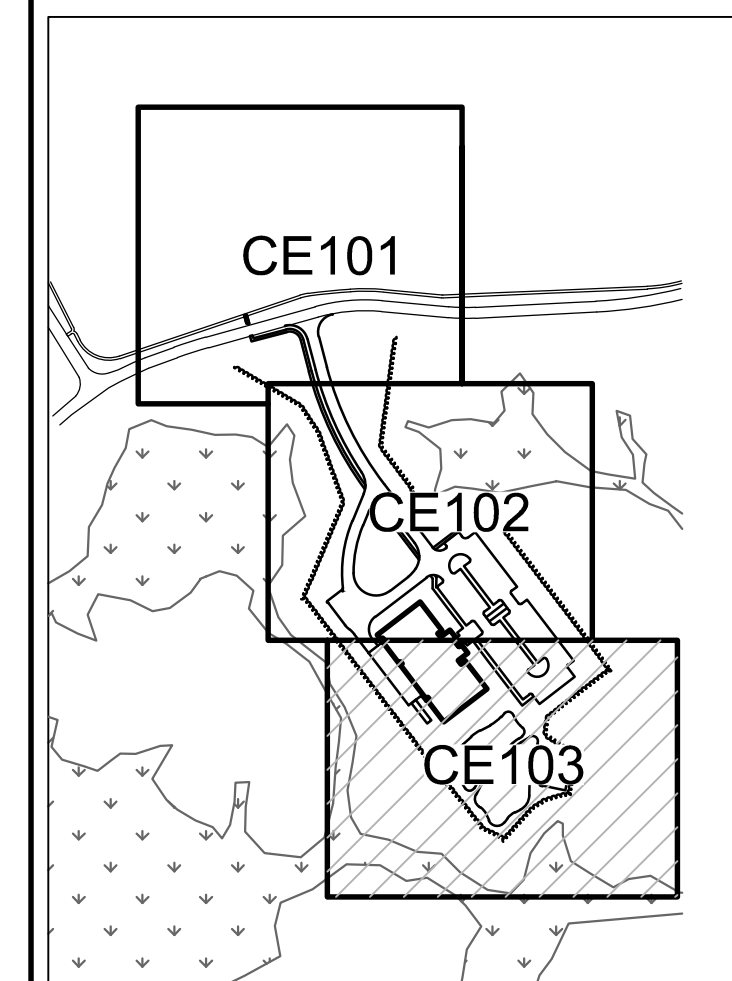
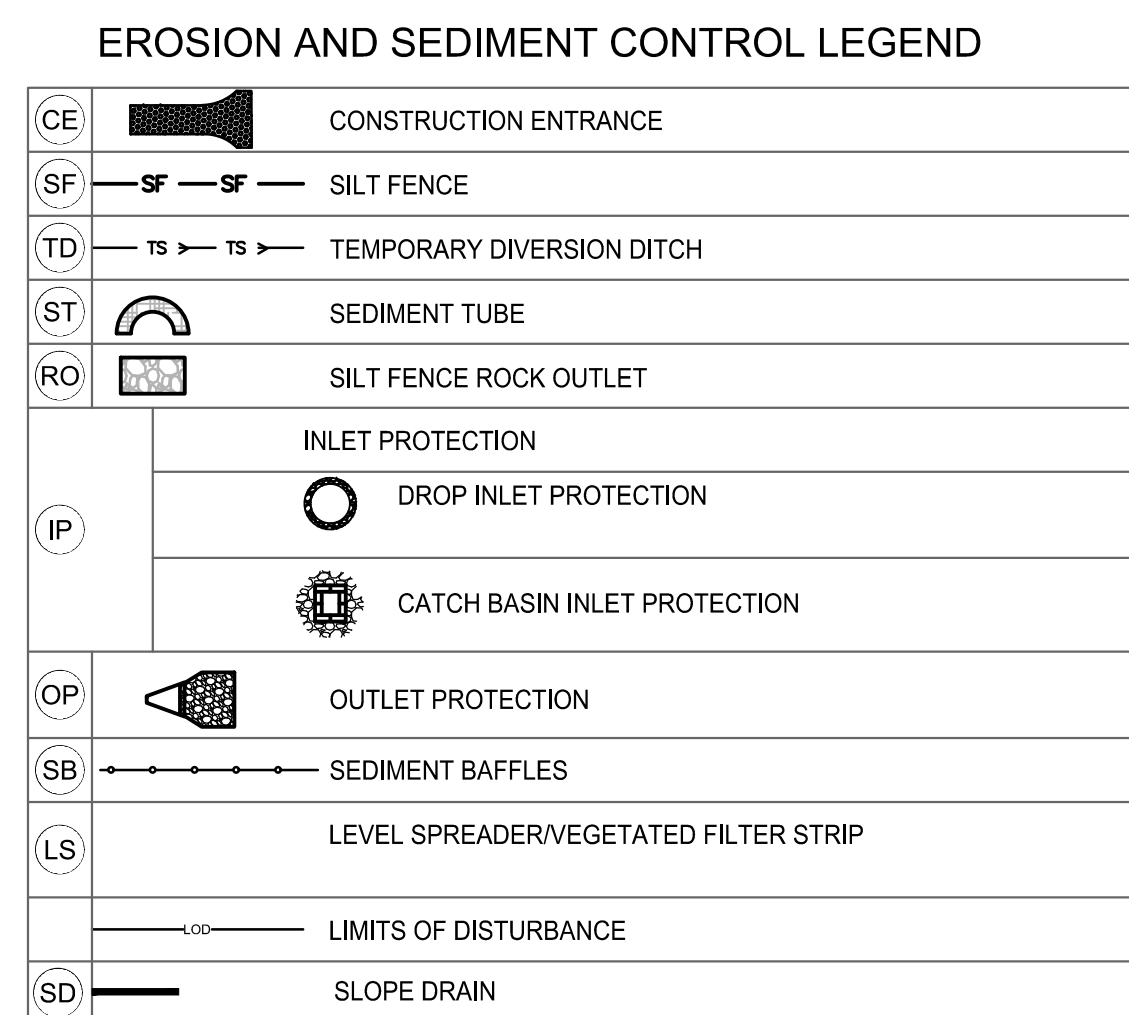
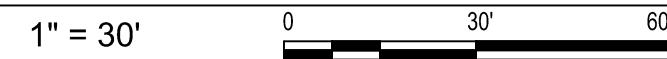
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EROSION CONTROL PLAN PHASE 1 - PLAN 3

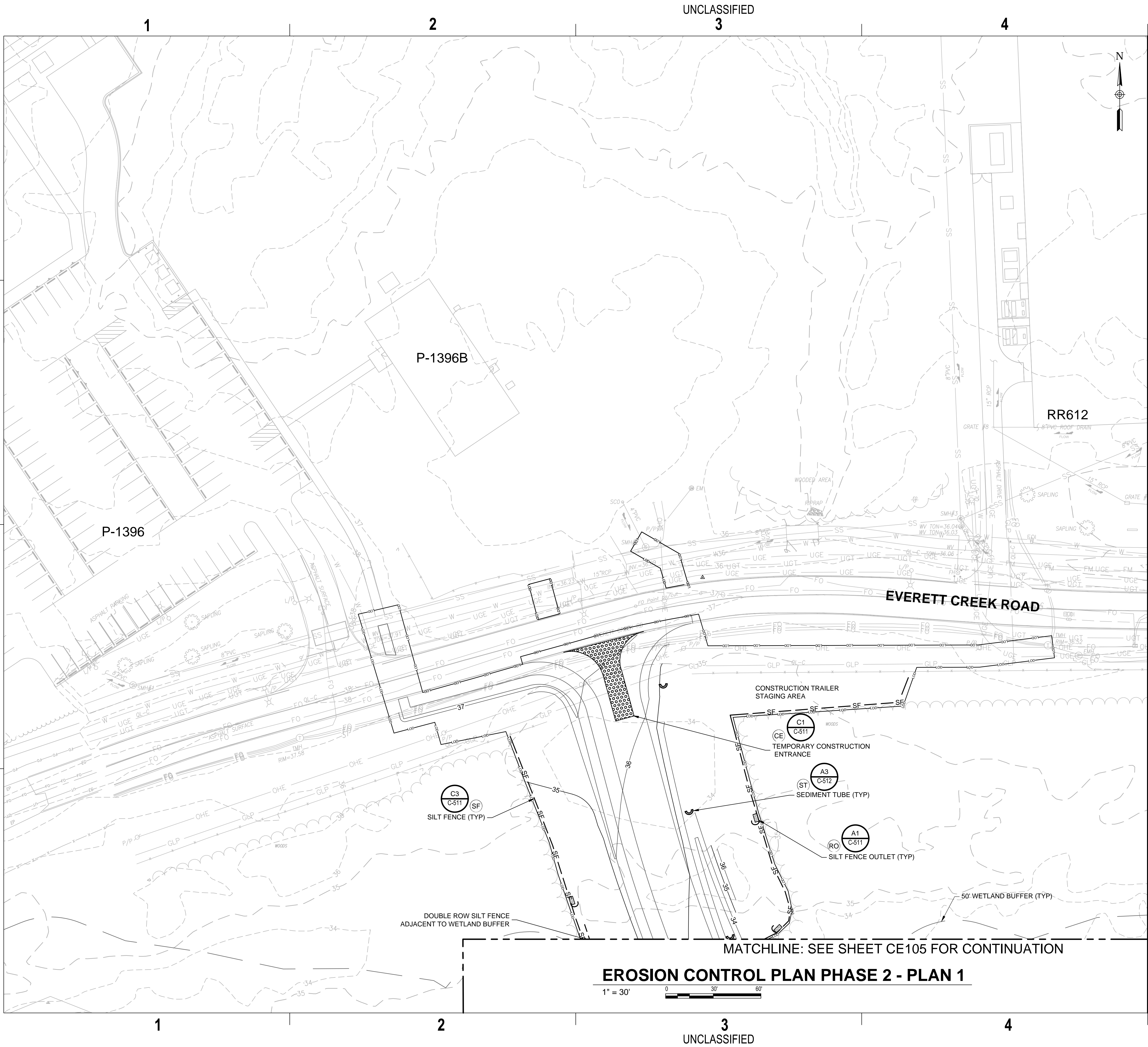


KEYMAP

NOT TO SCALE

SCALE:	1" = 30'	
EPROJECT NO.:	1603164	
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.	12794257	
SHEET	38	OF 228

CE103



5

GENERAL SHEET NOTES

A. SEE LEGEND AND GENERAL NOTES ON SHEET C-001 .

B. SEE EROSION CONTROL NOTES ON SHEET CE101.

C. PLAN DOES NOT SHOW LOCATION OR DIMENSIONS OF GEOSYNTHETIC REINFORCED AGGREGATE HAUL ROADS AND WORKING PLATFORMS. LOCATION, DIMENSIONS AND DETAILS TO BE DETERMINED BY CONTRACTOR.

EROSION AND SEDIMENT CONTROL LEGEND

CE	CONSTRUCTION ENTRANCE
SF	SILT FENCE
TD	TEMPORARY DIVERSION DITCH
ST	SEDIMENT TUBE
RO	SILT FENCE ROCK OUTLET
IP	INLET PROTECTION
OP	OUTLET PROTECTION
SB	SEDIMENT BAFFLES
LS	LEVEL SPREADER/VEGETATED FILTER STRIP
	LIMITS OF DISTURBANCE

NAVAC

ENGINEER
MICHAEL C. CAUSE
041670
12/21/2020

HR

440 S. CHURCH STREET, SUITE 1000
CHARLOTTE, NC 28202
TEL (704)338-4700

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by Emily Sylvester, Director of Installation Development Division

SATISFACTORY TO DATE 06/19/2020

DES JCC DRW ARM CHK RMB

PMCM SGLRMS

BRANCH MANAGER DLB

CHIEF ENGINEER EJA

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC
CAMP LEJEUNE - JACKSONVILLE, NC
JACKSONVILLE, NORTH CAROLINA

P1395 MARINE RAIDER HEADQUARTERS

EROSION CONTROL PLAN PHASE 2 - PLAN 1

KEYMAP

NOT TO SCALE

SCALE: 1" = 30'

PROJECT NO.: 1603164

CONSTR. CONTR. NO.

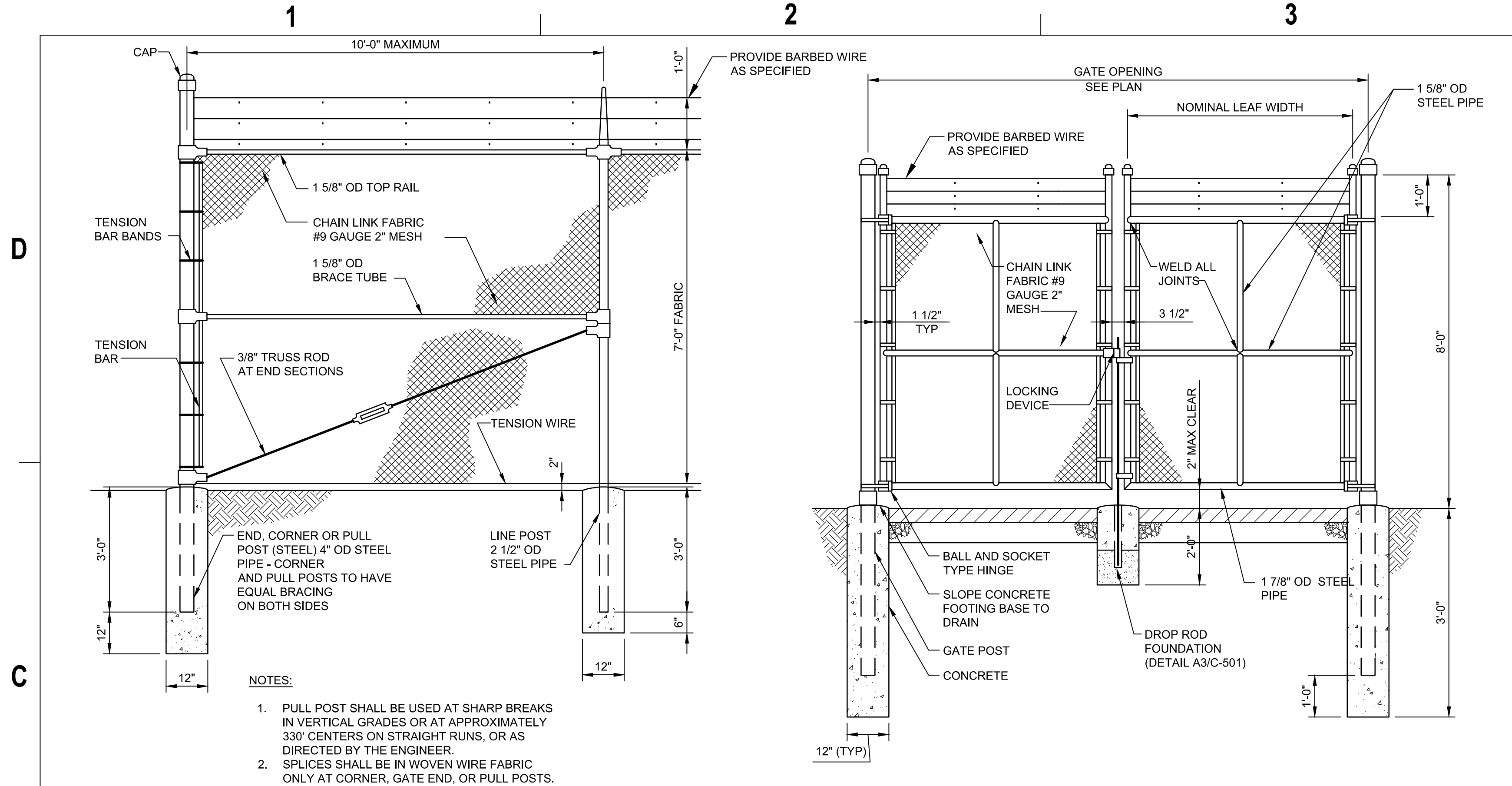
NAVFAC DRAWING NO. 12794258

SHEET 39 OF 228

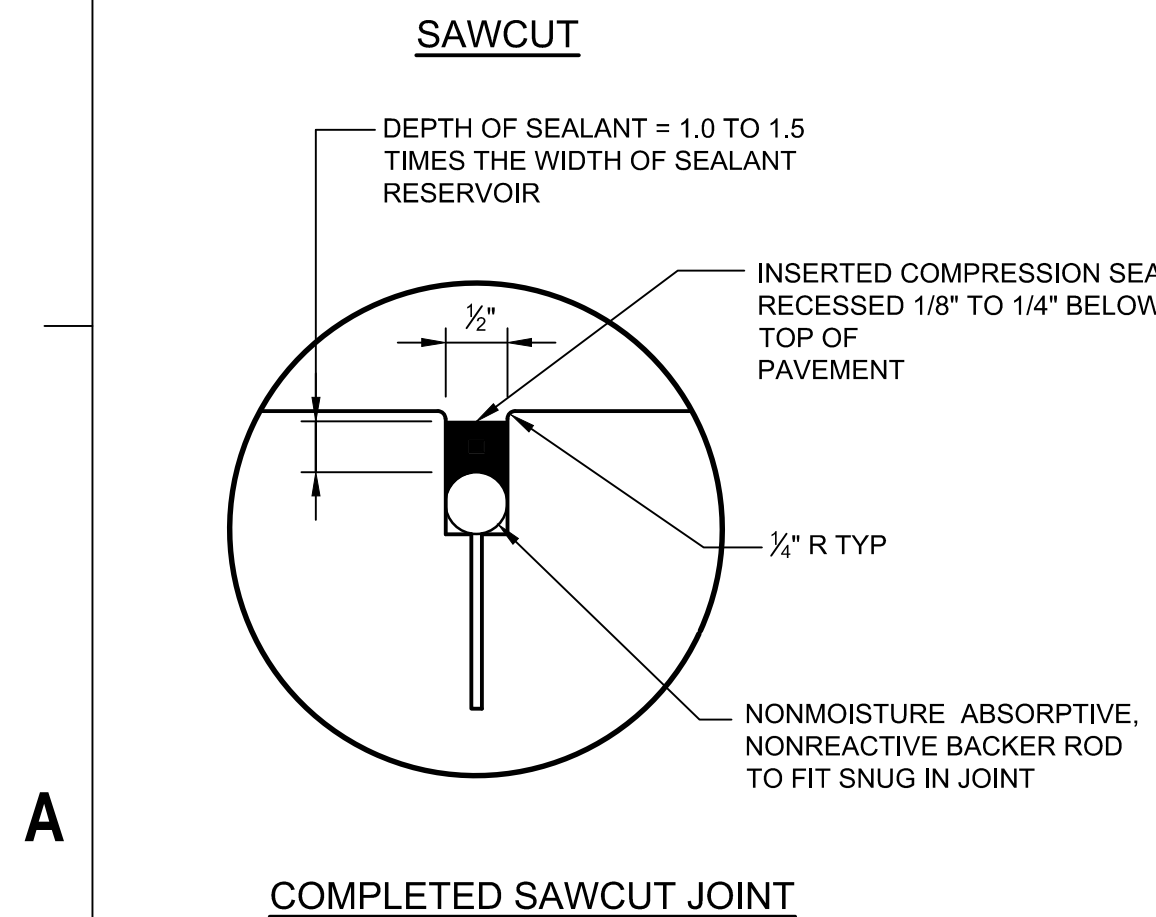
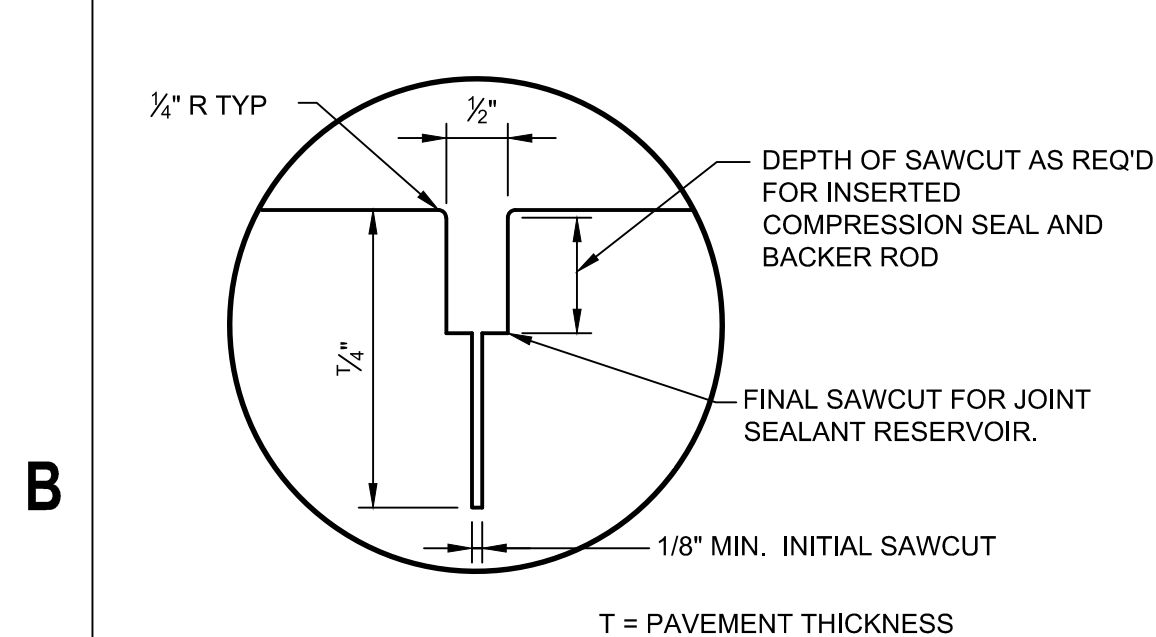
CE104

DRAWING REVISION: 17 APRIL 2018

UNCLASSIFIED



C1 CHAINLINK SECURITY FENCE DETAIL
NOT TO SCALE



A1 CONCRETE SAWCUT DETAIL
NOT TO SCALE

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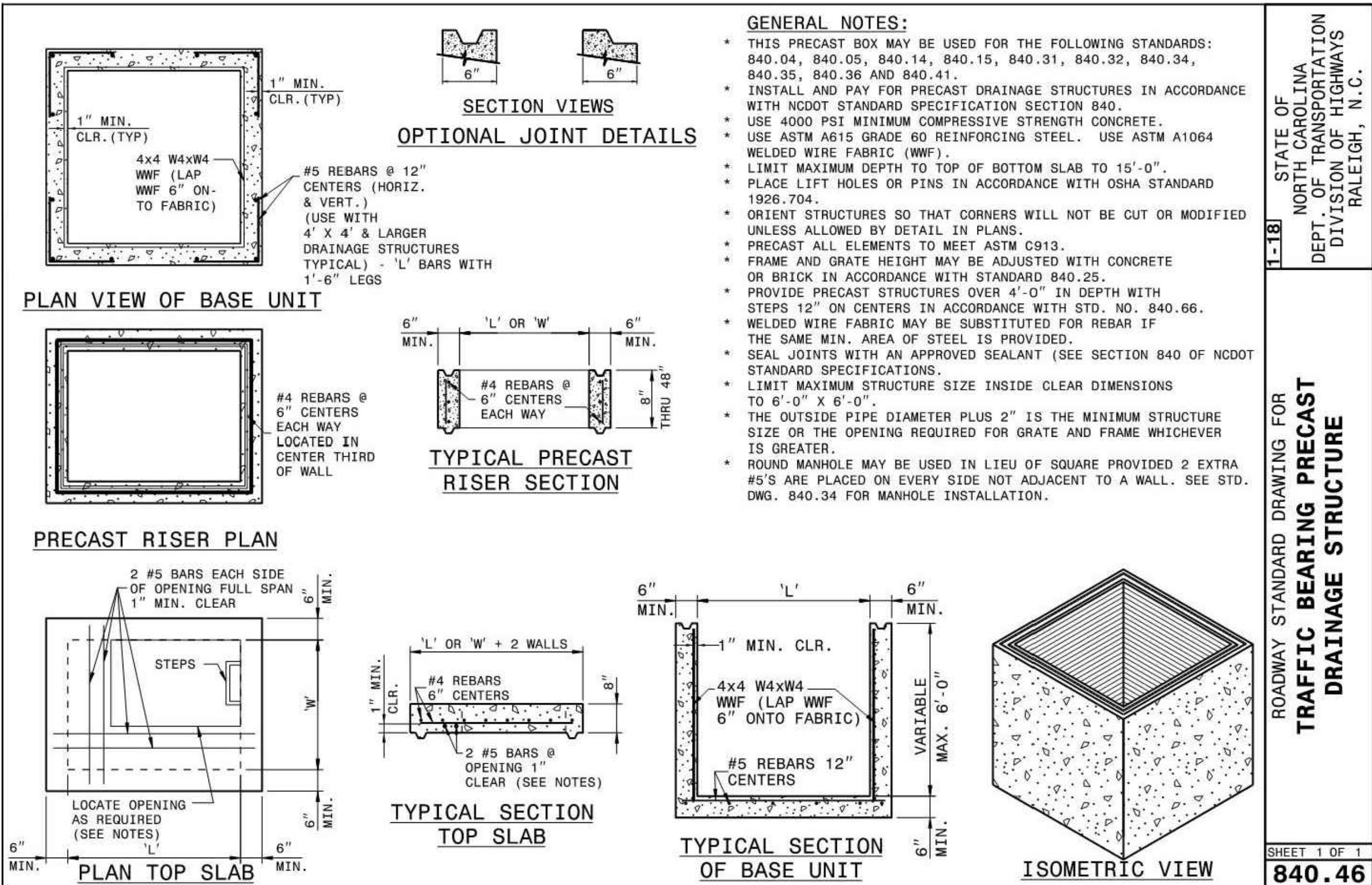
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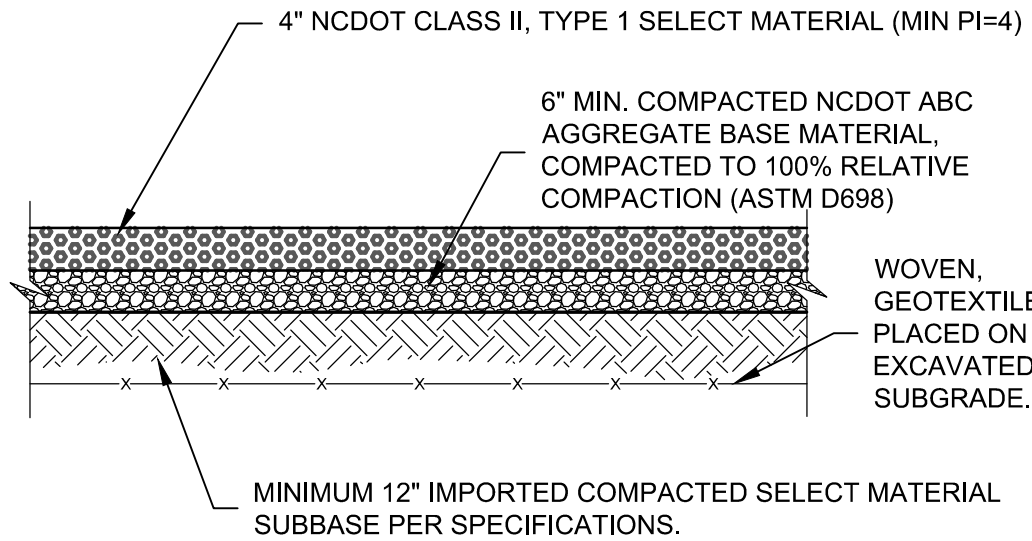
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NOTE: ALL DRAINAGE STRUCTURES MUST BE SUPPORTED ON 12" MINIMUM BEDDING OF #57 STONE UNDERLAIN BY DRAINAGE GEOTEXTILE.



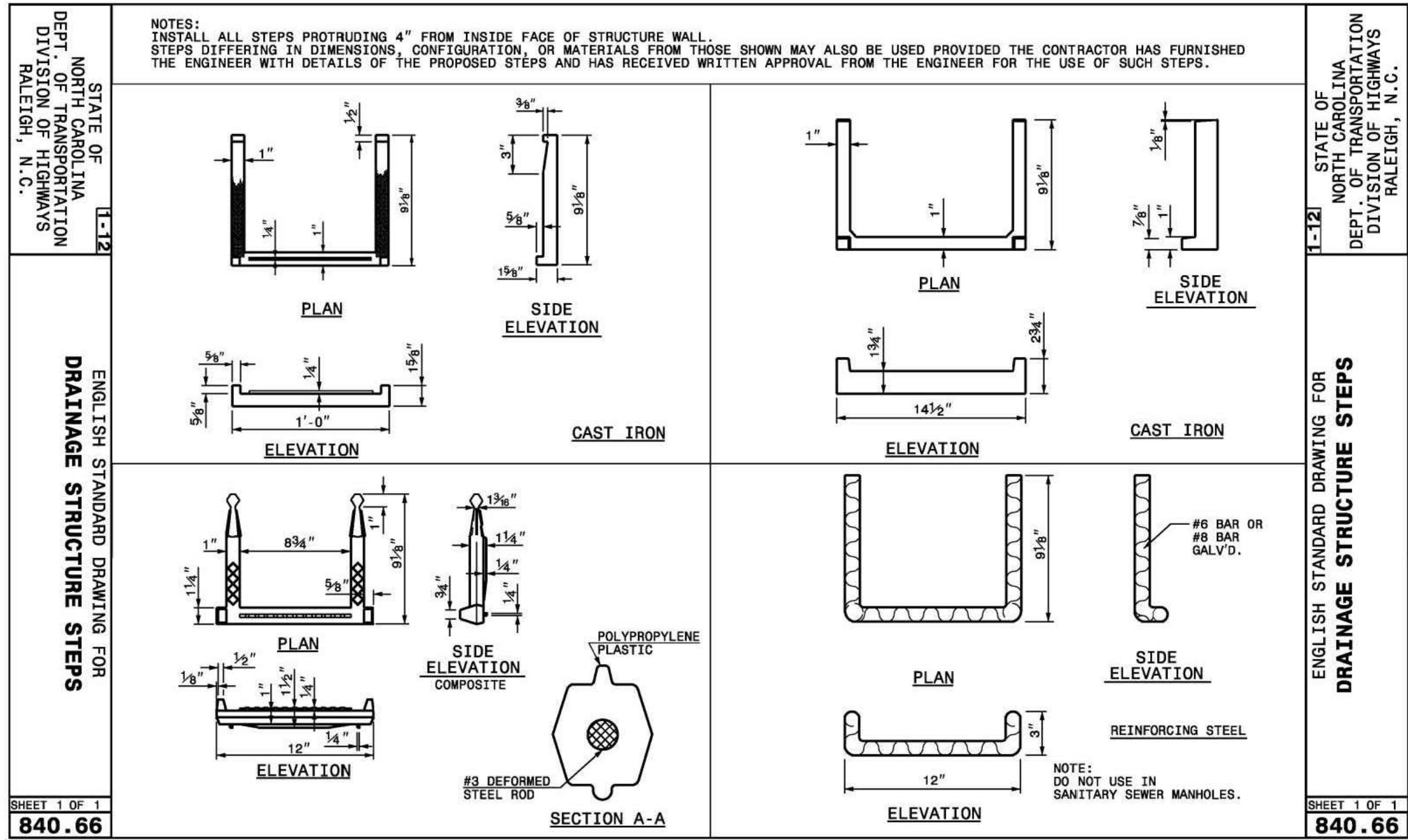
NOTE:
AGGREGATE BASE MATERIALS SHOULD CONFORM TO FM 5-472/NAVFAC MO 330 REQUIREMENTS FOR MATERIAL TESTING (2001).

AGGREGATE TRUCK LOOP PAVEMENT DETAIL

NOT TO SCALE

B

A



A1 DRAINAGE STRUCTURE STEPS

NOT TO SCALE

NOTE: ALL DRAINAGE STRUCTURES MUST BE SUPPORTED ON 12" MINIMUM BEDDING OF #57 STONE UNDERLAIN BY DRAINAGE GEOTEXTILE.

A4 CONCRETE DROP INLET

NOT TO SCALE

NOTE: ALL DRAINAGE STRUCTURES MUST BE SUPPORTED ON 12" MINIMUM BEDDING OF #57 STONE UNDERLAIN BY DRAINAGE GEOTEXTILE.

UNCLASSIFIED

B

A

SYMBOL	DESCRIPTION	DATE	APPROVED



440 S. CHURCH STREET, SUITE 1000
CHARLOTTE, NC 28202
TEL (704)338-6700

APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

Approved by Emily Sylvester, Director of Installation Development Division
SATISFACTORY TO DATE 06/19/2020

DES DRW CHK
PMID SGURMS
BRANCH MANAGER DLB
CHIEF ENGINEER EJA
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC
CAMP LEEUE - JACKSONVILLE NC
JACKSONVILLE, NORTH CAROLINA

P1395 MARINE RAIDER HEADQUARTERS

CIVIL SITE DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1603164
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12794262
SHEET 43 OF 228

C-502

DRAWING REVISION: 17 APRIL 2018

C1 CONCRETE CATCH BASIN
NOT TO SCALE

C4 PRECAST DRAINAGE MANHOLE
NOT TO SCALE

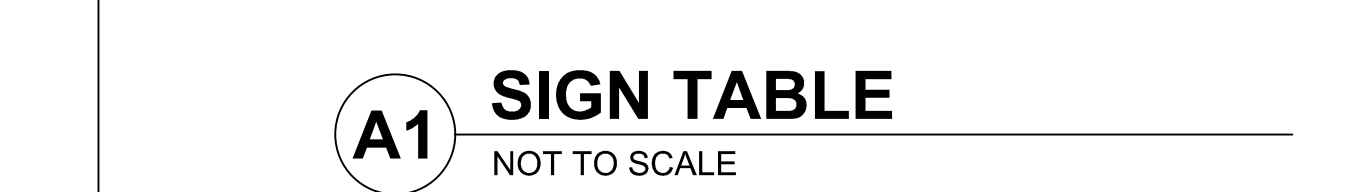
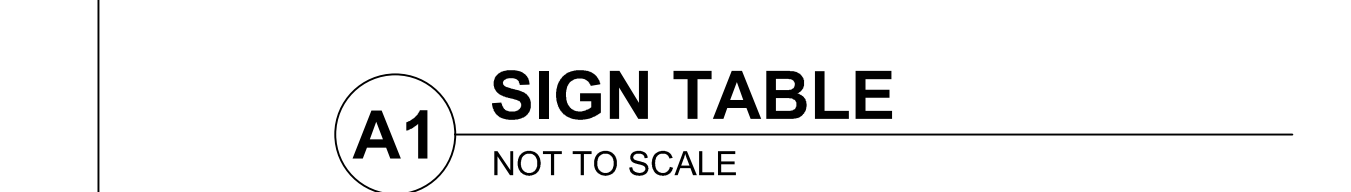
NOTE: ALL DRAINAGE STRUCTURES MUST BE SUPPORTED ON 12" MINIMUM BEDDING OF #57 STONE UNDERLAIN BY DRAINAGE GEOTEXTILE

A1 CONCRETE CATCH BASIN
NOT TO SCALE

A4 FRAME AND COVER

NOT TO SCALE





PROJECT NO.:	1603164	
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.	12794268	
SHEET	49	OF 228
C-508		



B

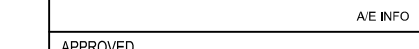


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NOT TO SCALE

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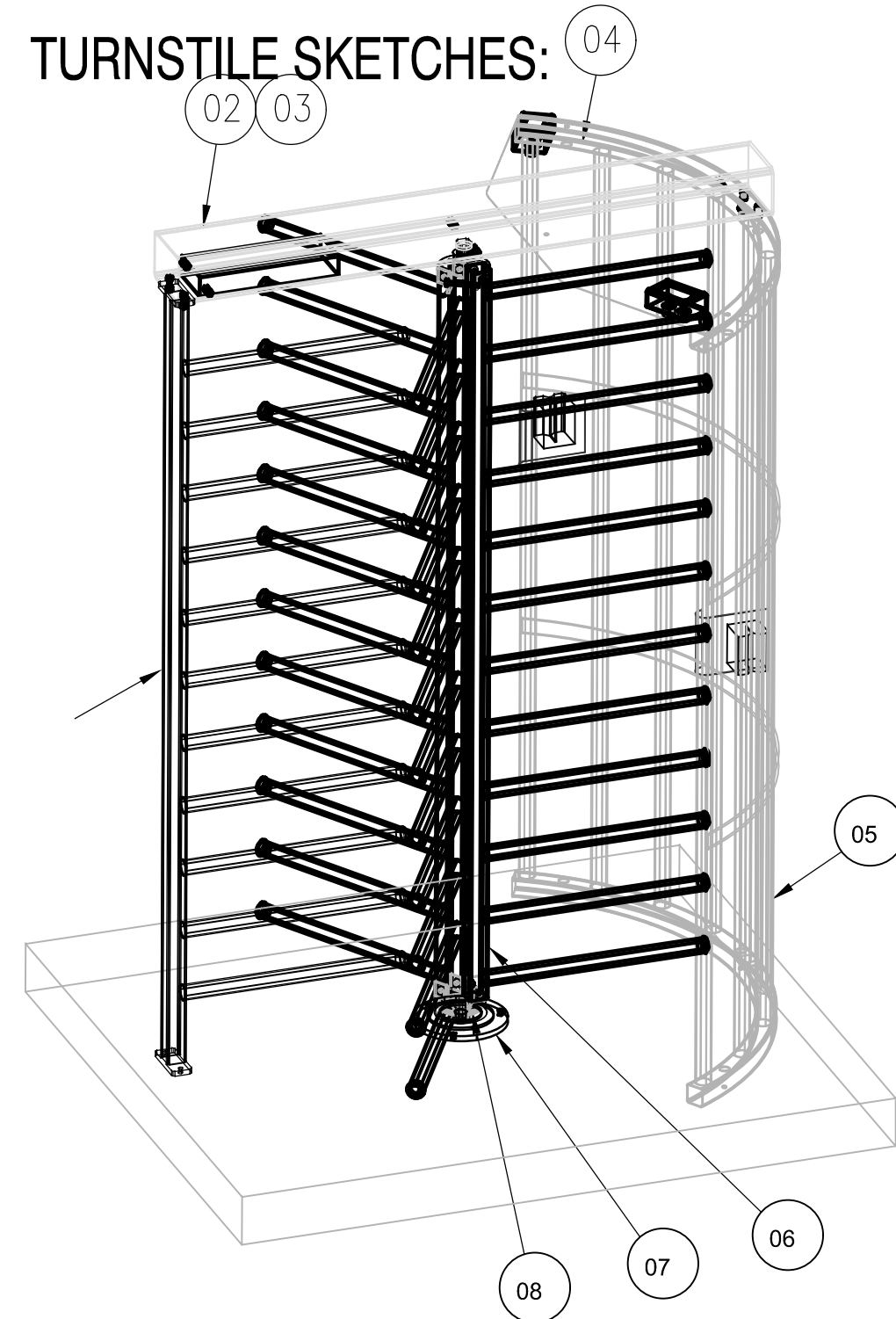
TURNSTILE NOTES:

1. TURNSTILE SHALL BE COMPOSED OF CARBON STEEL. ALL MATERIALS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.
2. TURNSTILE SHALL HAVE BI-DIRECTIONAL CONTROLS: IN THE CASE OF A POWER FAILURE, OUTBOUND TRAFFIC SHALL BE SET TO "FAIL SAFE"; THE INBOUND TRAFFIC WILL HAVE A "FAIL LOCK" MECHANISM (UNLESS OTHERWISE DIRECTED BY THE ACTIVITY VIA THE CONTRACTING OFFICER).
3. PROVIDE CARD READER MOUNTING PLATES FOR BOTH SIDES (INBOUND & OUTBOUND) OF TURNSTILE. CARD READER WILL BE INSTALLED BY THE ACTIVITY AT A LATER DATE.
4. BRACE BARRIER POST AT TOP TO ADJACENT VERTICAL SURFACE.
5. ALLOW 5 INCH CLEARANCE ABOVE TOP OF TURNSTILE TO REMOVE LIFT-OFF TYPE TOP COVER.
6. CONCRETE MOUNTING SLAB MUST BE LEVEL WITHIN 1/4". SEE DETAIL C2 THIS SHEET FOR CONC MOUNTING PAD.
7. CONTRACTOR SHALL PROVIDE AN ELECTRICAL 3-ROTOR FULL HEIGHT TURNSTILE AS MANUFACTURED BY TOMSED, MODEL THT-100ECP(3), OR APPROVED EQUAL.
8. TURNSTILE SHALL HAVE FINISH TO MATCH ADJACENT FENCEWORK: POWDER COATED BLACK FOR ORNAMENTAL FENCE AND GALVANIZED FOR CHAIN-LINK.
9. INSTALL 3 STRANDS BARBED WIRE OR CONCERTINA WIRE OVER TOP CHANNEL OF TURNSTILE (BETWEEN ADJACENT FENCE POSTS) TO HINDER SCALING UNIT.

TURNSTILE MOUNTING SLAB

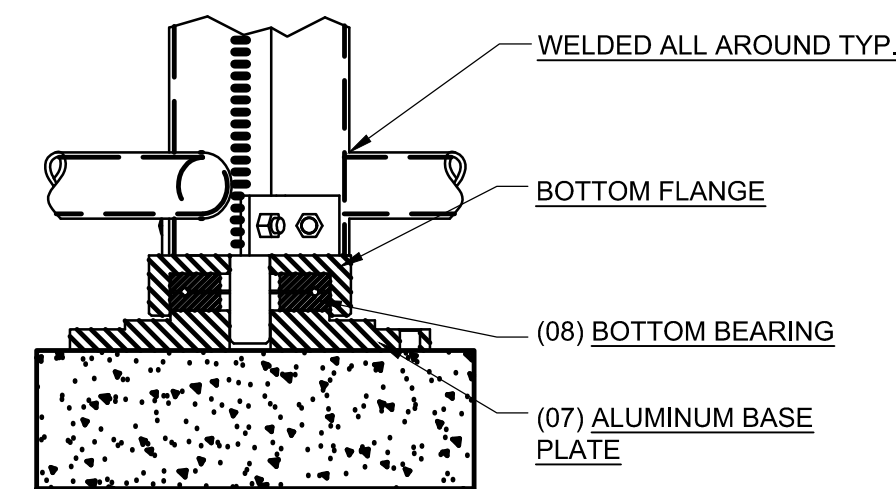
NTS

TURNSTILE SKETCHES:



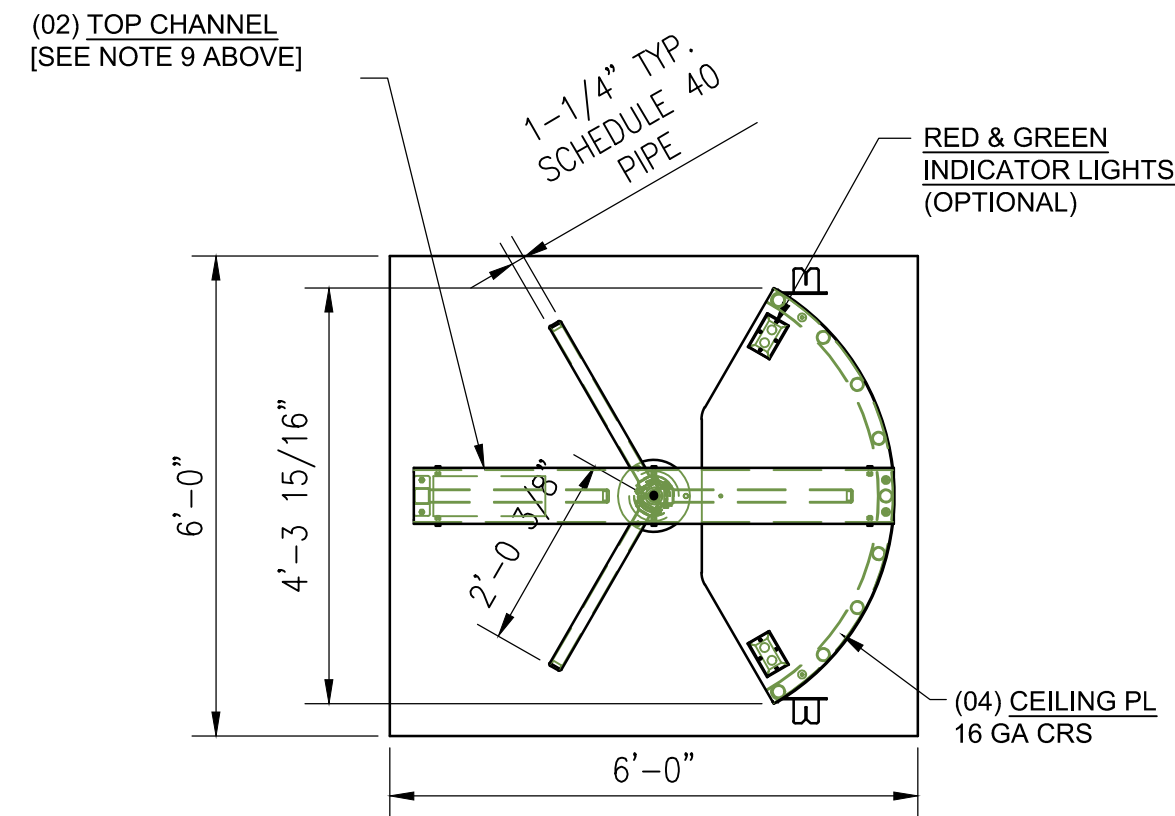
ISOMETRIC

NOT TO SCALE



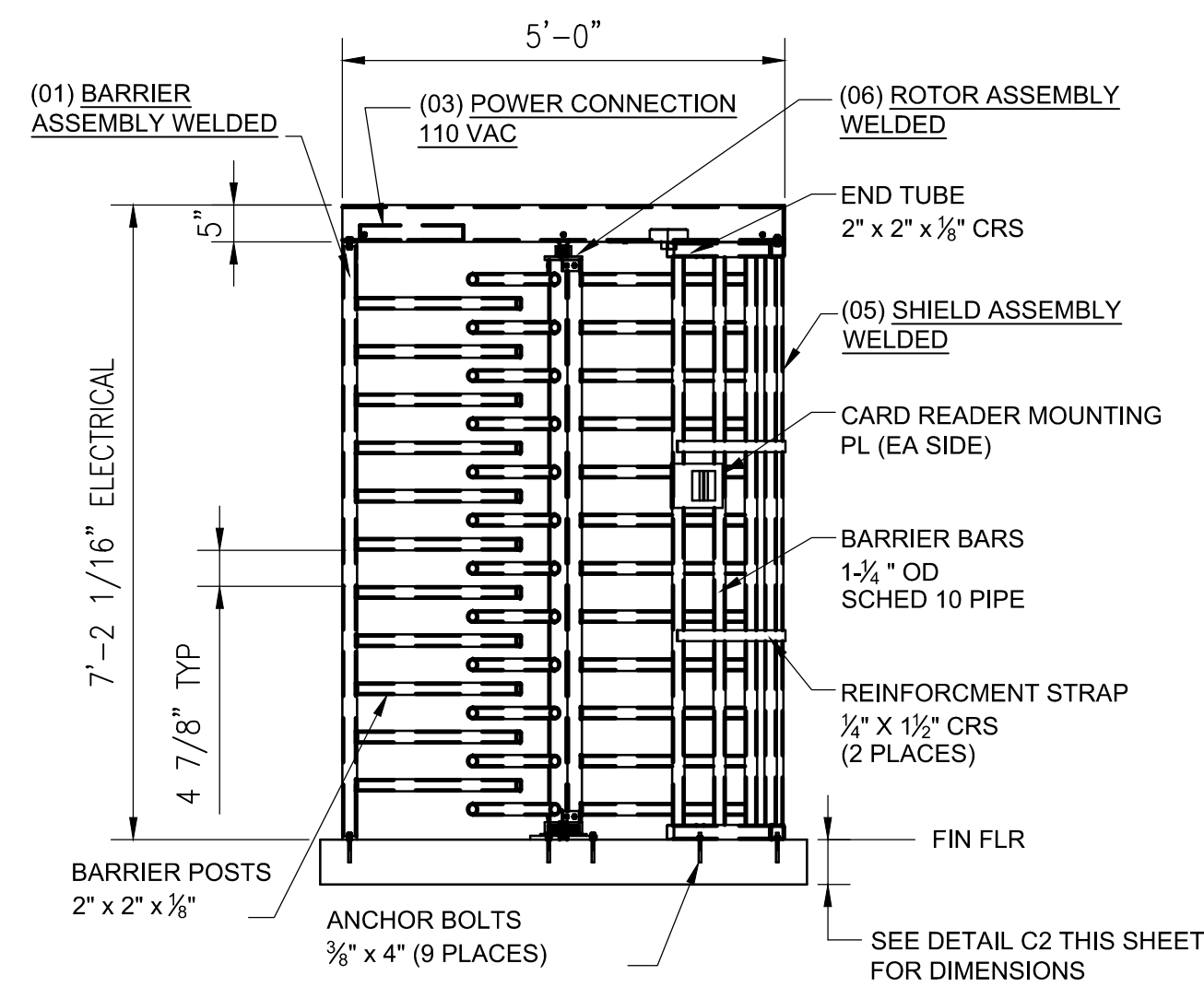
BOTTOM BEARING DETAIL

NOT TO SCALE



PLAN VIEW

NOT TO SCALE



ELEVATION VIEW

NOT TO SCALE

A1 TURNSTILE DETAILS

NOT TO SCALE

[illegible]

FOR COMMANDER NAVFAC
ACTIVITY

Approved by Emily Sylvester, Director of
Installation Development Division

SATISFACTORY TO DATE	06/19/2020
----------------------	------------

DES	DRW	CHK
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PM/DM	SGL/RMS
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BRANCH MANAGER	DLB
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CHIEF ENG/ARCH	EIA
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CHIEF ENCLERCH	EJA
FIRE PROTECTION	

ND	NC	NA	
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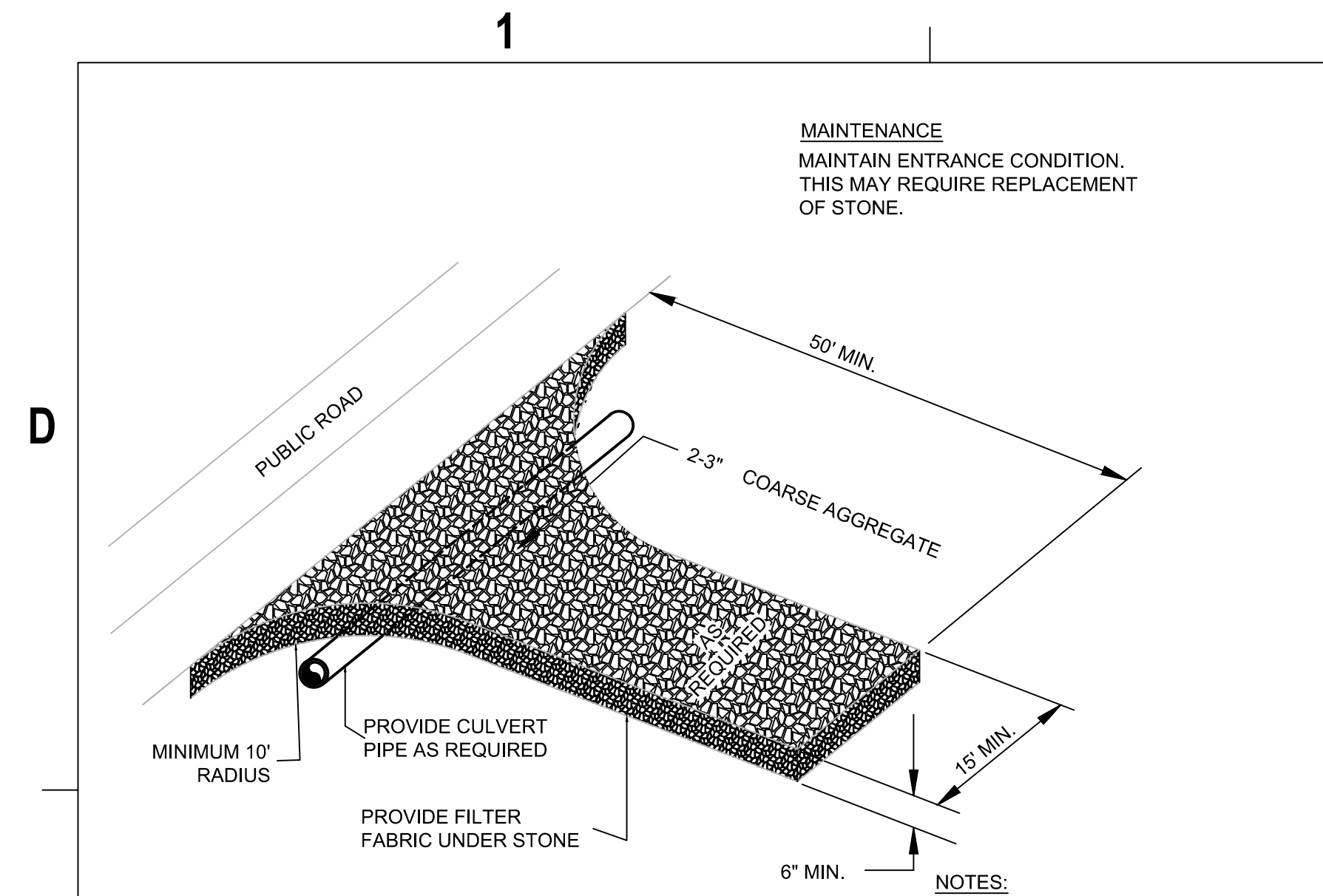
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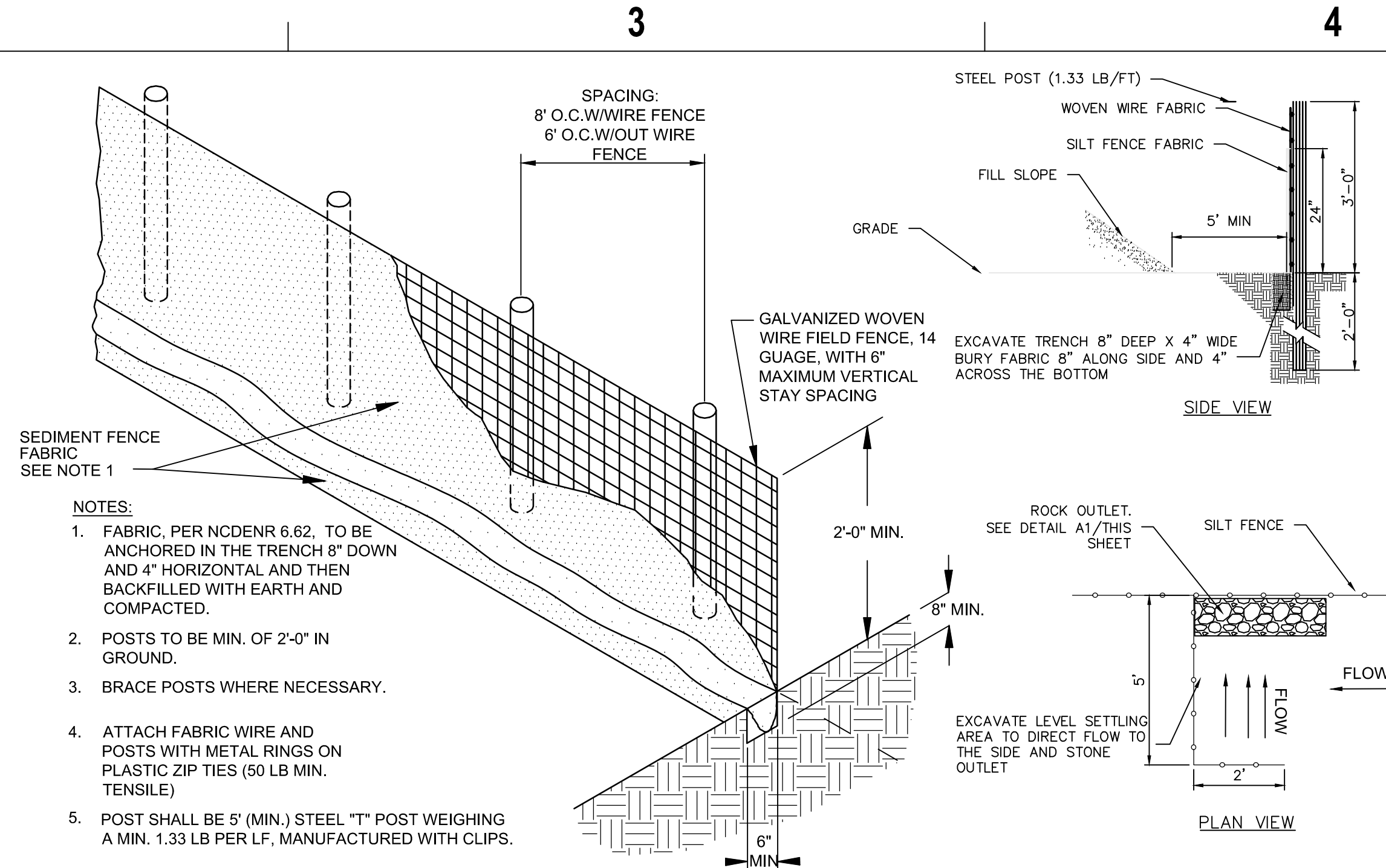
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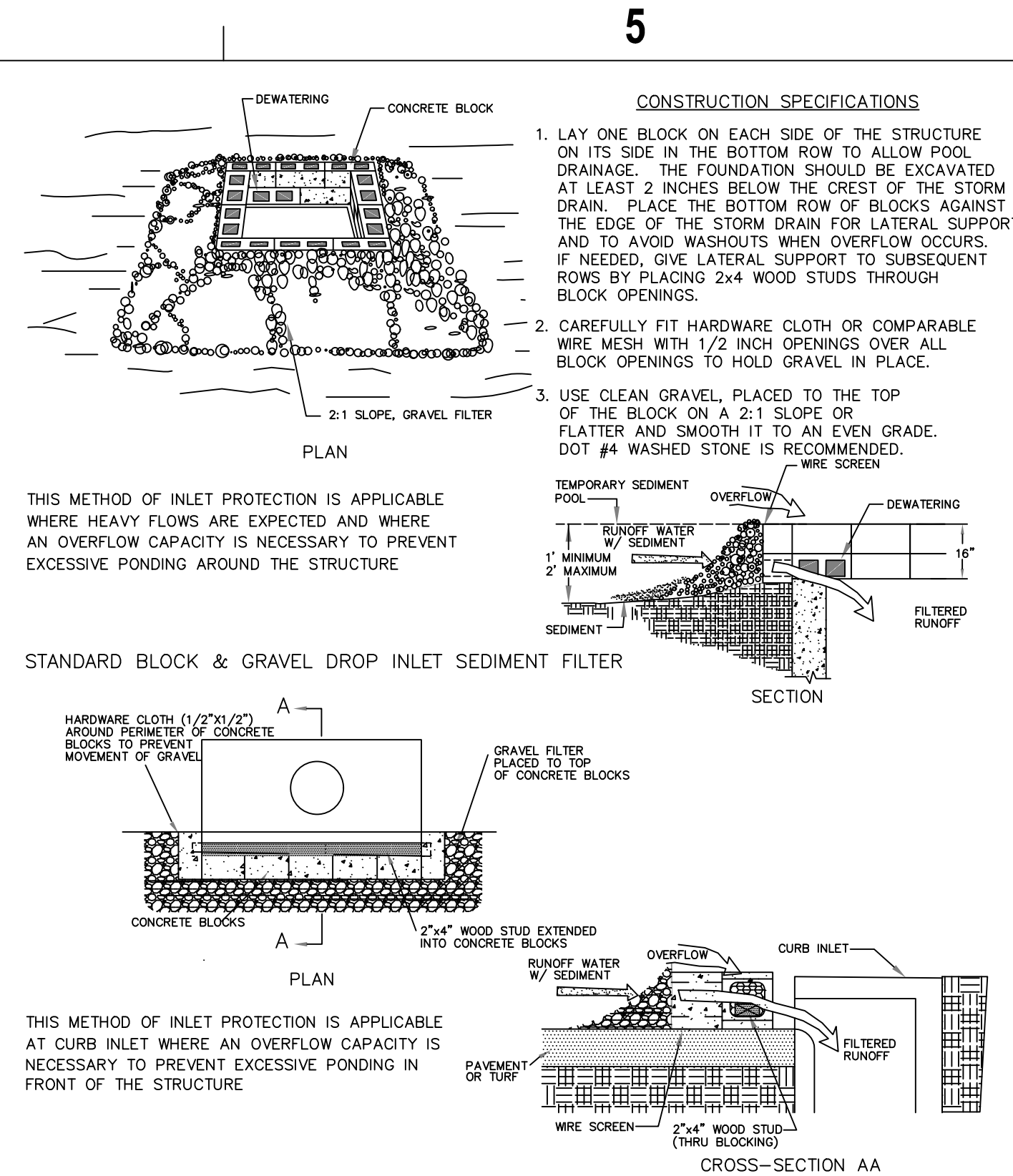
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C1 **TEMPORARY CONSTRUCTION ENTRANCE**
NOT TO SCALE



C3 **TEMPORARY SILT FENCE**
NOT TO SCALE

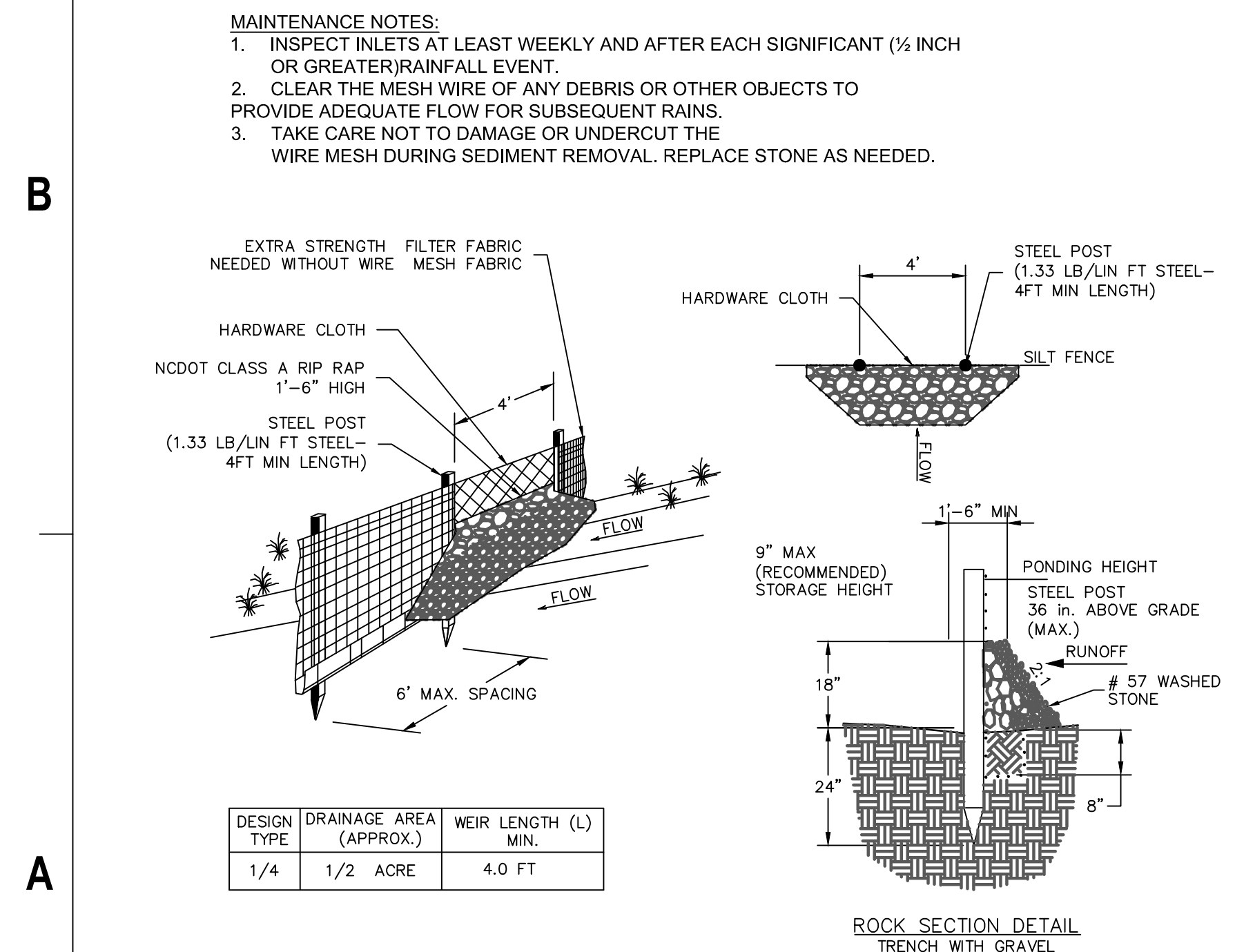


STANDARD BLOCK & GRAVEL CURB INLET SEDIMENT FILTER

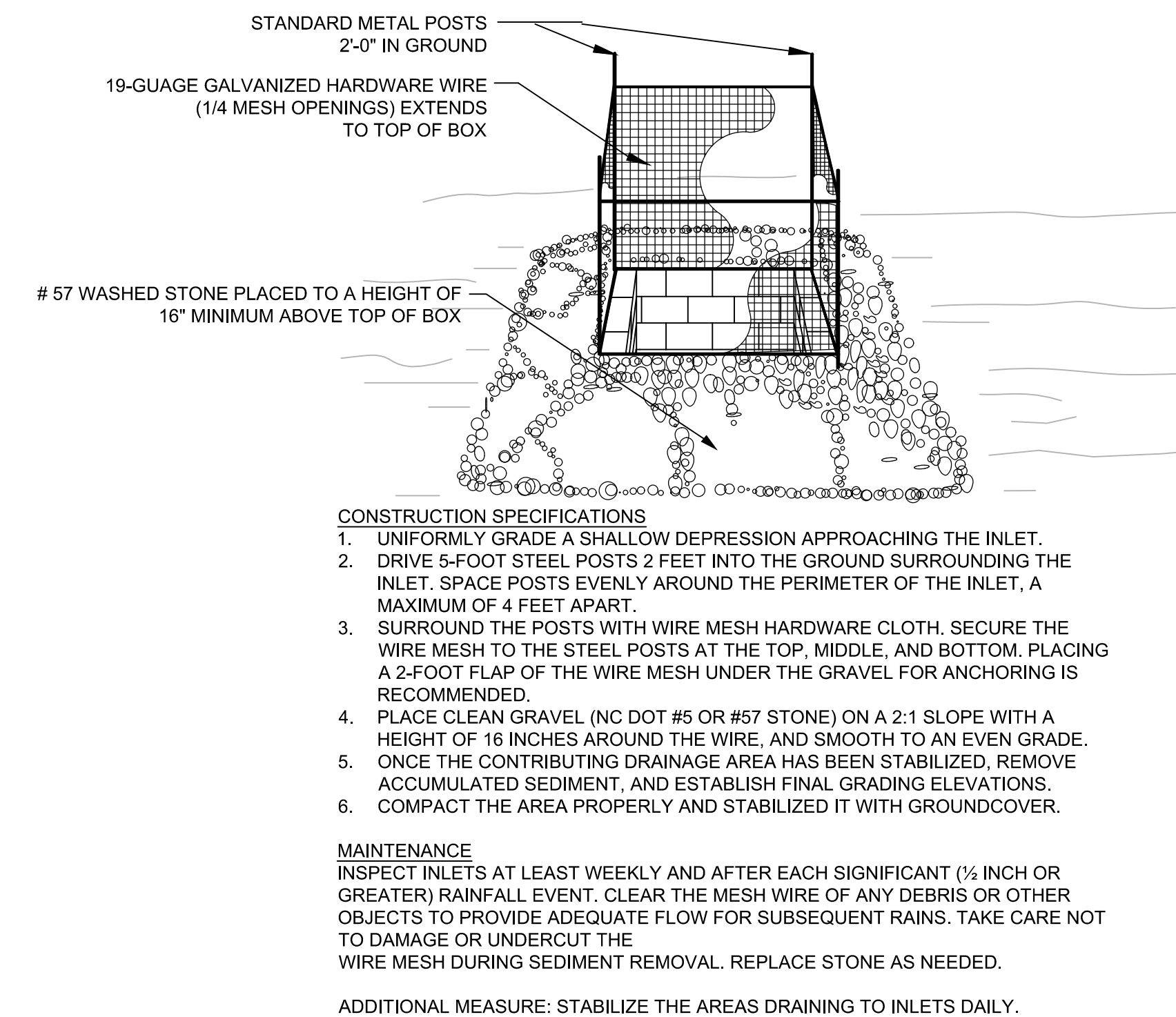
**BLOCK & GRAVEL CURB
INLET SEDIMENT FILTER**

C4

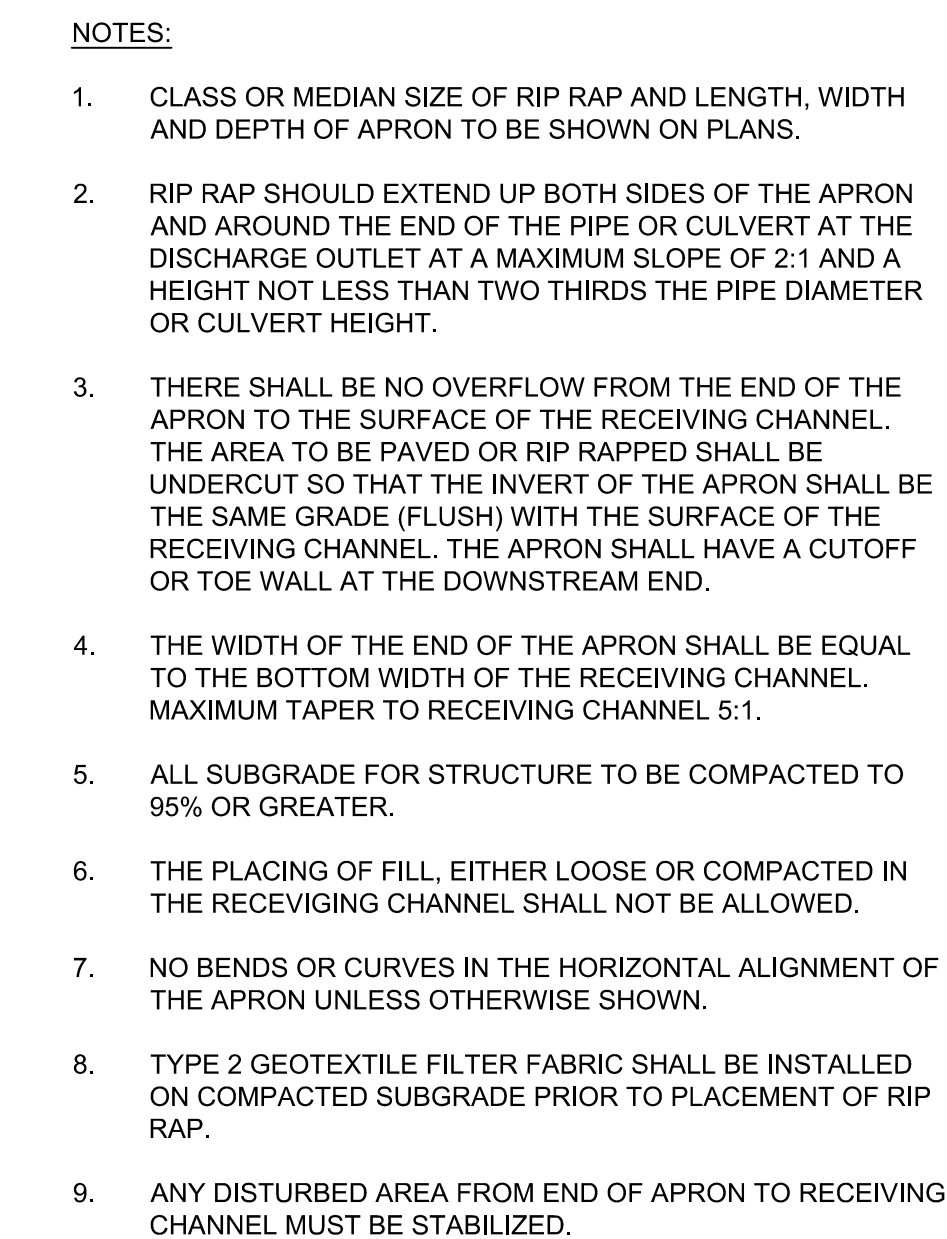
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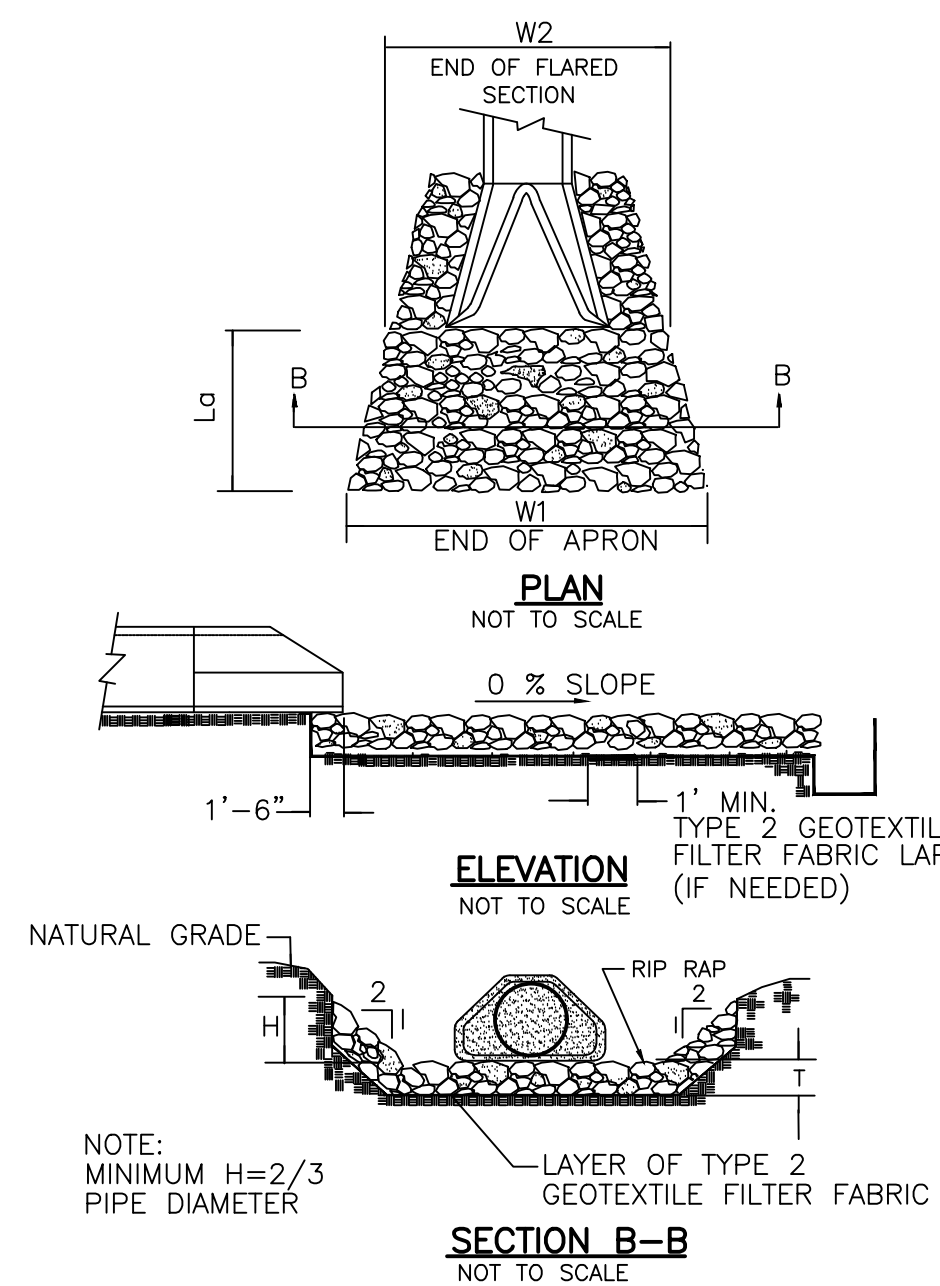
A1 SILT FENCE ROCK OUTLET
NOT TO SCALE



A3 **DROP INLET AND
SEDIMENT FILTER**
NOT TO SCALE



LOCATION	W1	W2	La	CLASS	T
FES-A1	24.0'	8.0'	16.0'	B	1.5'
FES-B1	17.0'	6.0'	11.0'	B	1.5'



A5 RIP RAP AT OUTLET DETAIL
NOT TO SCALE

[illegible]

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PIPE SLOPE DRAIN

Installation:

Typical pipe slope drains are made of non-perforated corrugated plastic pipe.

Slope drain sections should be securely fastened together, have gasket watertight fittings, and be securely anchored into the soil.

Diversion berms or dikes should direct runoff to slope drains. The minimum depth of these dikes or berms should be 1.5-feet. The height of the berm around the pipe inlet should be a minimum of 1.5-feet high and at least 0.5-feet higher than the top of the pipe. The berm at the pipe inlet shall be compacted around the pipe. The area around the inlet shall be properly stabilized with ECBs, TRMs, riprap or other applicable stabilization techniques.

The area below the outlet must be properly stabilized with ECBs, TRMs, riprap or other applicable stabilization technique.

If the pipe slope drain is conveying sediment-laden water, direct all flows into the sediment trapping facility.

Inspection and Maintenance:

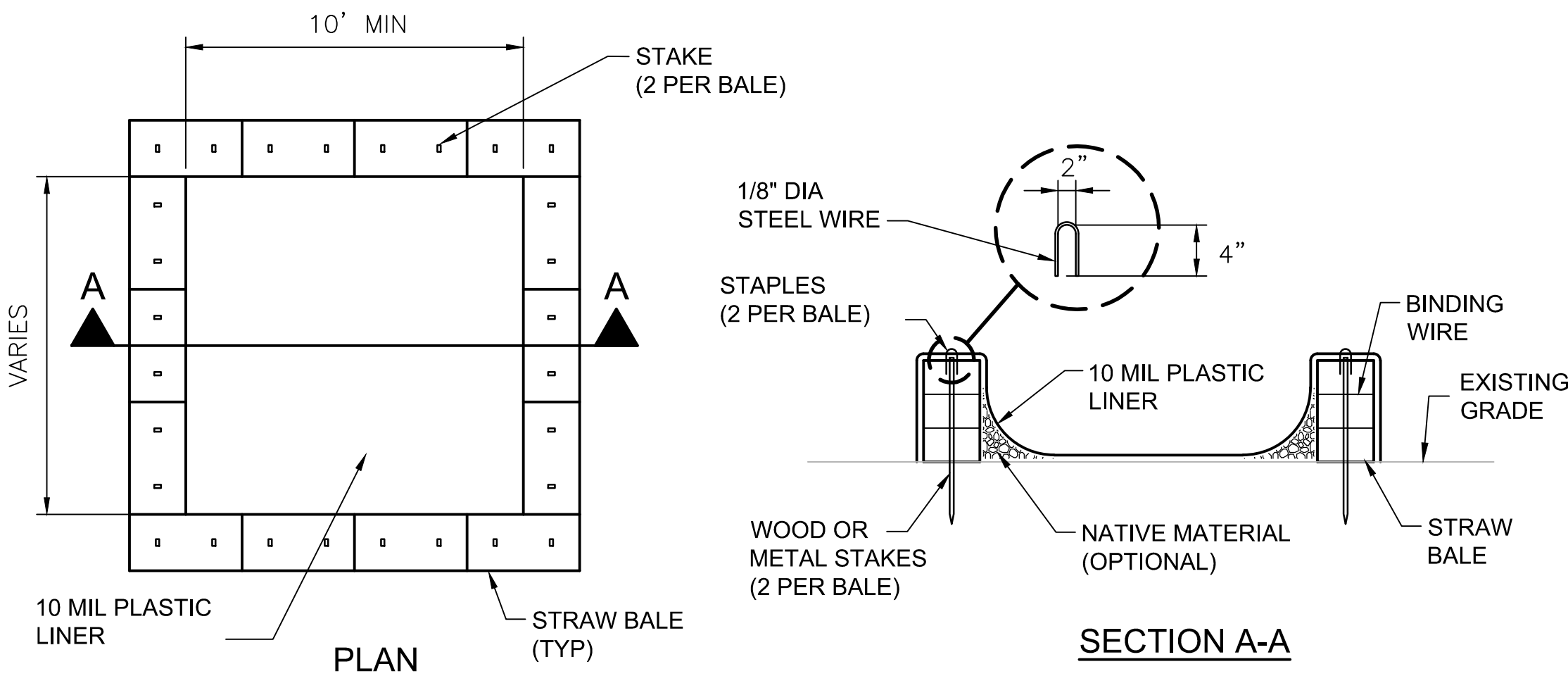
Inspect pipe slope drain inlet and outlet points every seven (7) calendar days and within 24-hours after each rainfall event that produces ½-inches or more of precipitation.

The inlet should be free from undercutting, and no water should be going around the point of entry. If there are problems, the headwall should be reinforced with compacted earth or sandbags. The outlet point should be free of erosion and installed with appropriate outlet protection.

All temporary pipe slope drains should be removed within 30 days after final site stabilization is achieved or after the temporary BMP is no longer needed. Disturbed soil areas resulting from removal should be permanently stabilized.

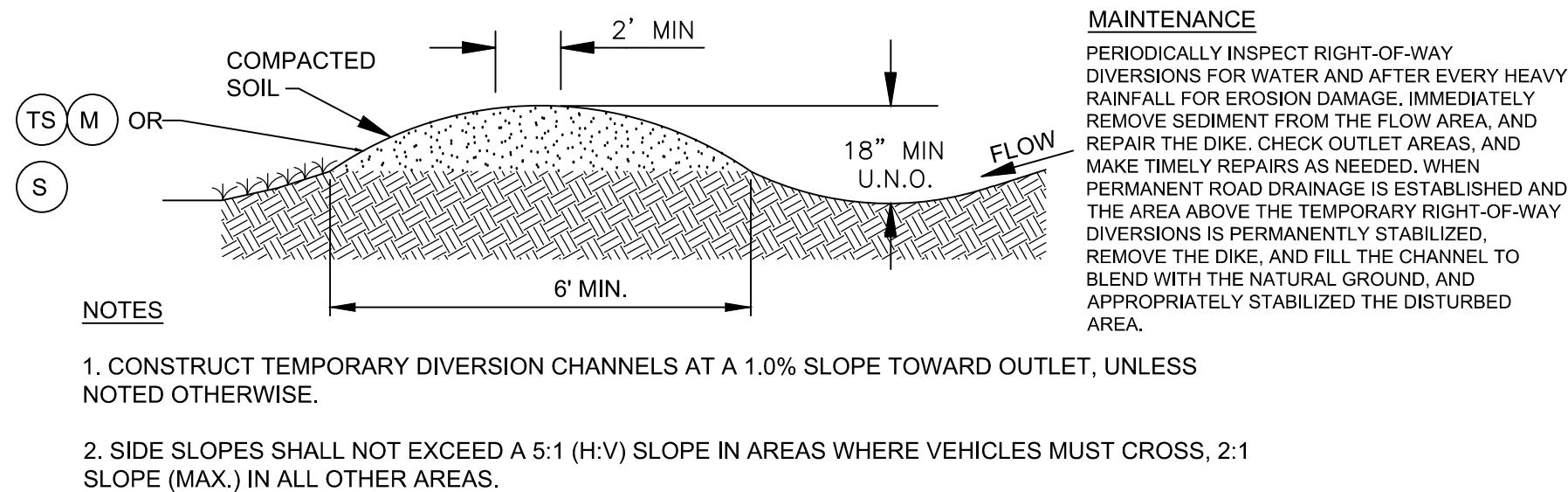
C1 TEMPORARY SLOPE DRAIN DETAIL

NOT TO SCALE



B1 TEMPORARY CONCRETE WASHOUT DETAIL

NOT TO SCALE



A1 TEMPORARY DIVERSION DITCH DETAIL

NOT TO SCALE

PLAN VIEW

TYPICAL PIPE SLOPE DRAIN LAYOUT

OUTLET PROTECTION (ECB, TRMs, or RIPRAP)

INLET PROTECTION

3:1 SIDE SLOPES

2-FT. MIN

0.5-FT. MIN

2-FT. MIN

10-FT. SPACING

HOLD-DOWN STAKES

CORRUGATED PLASTIC PIPE

COMPACTED FILL

2-FT. MIN

10-FT. SPACING

HOLD-DOWN STAKES

CORRUGATED PLASTIC PIPE

COMPACTED FILL

2-FT. MIN

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CORRUGATED PLASTIC PIPE

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HOLD-DOWN STAKES

CORRUGATED PLASTIC PIPE

COMPACTED FILL

2-FT. MIN

10-FT. SPACING

HOLD-DOWN STAKES

CORRUGATED PLASTIC PIPE

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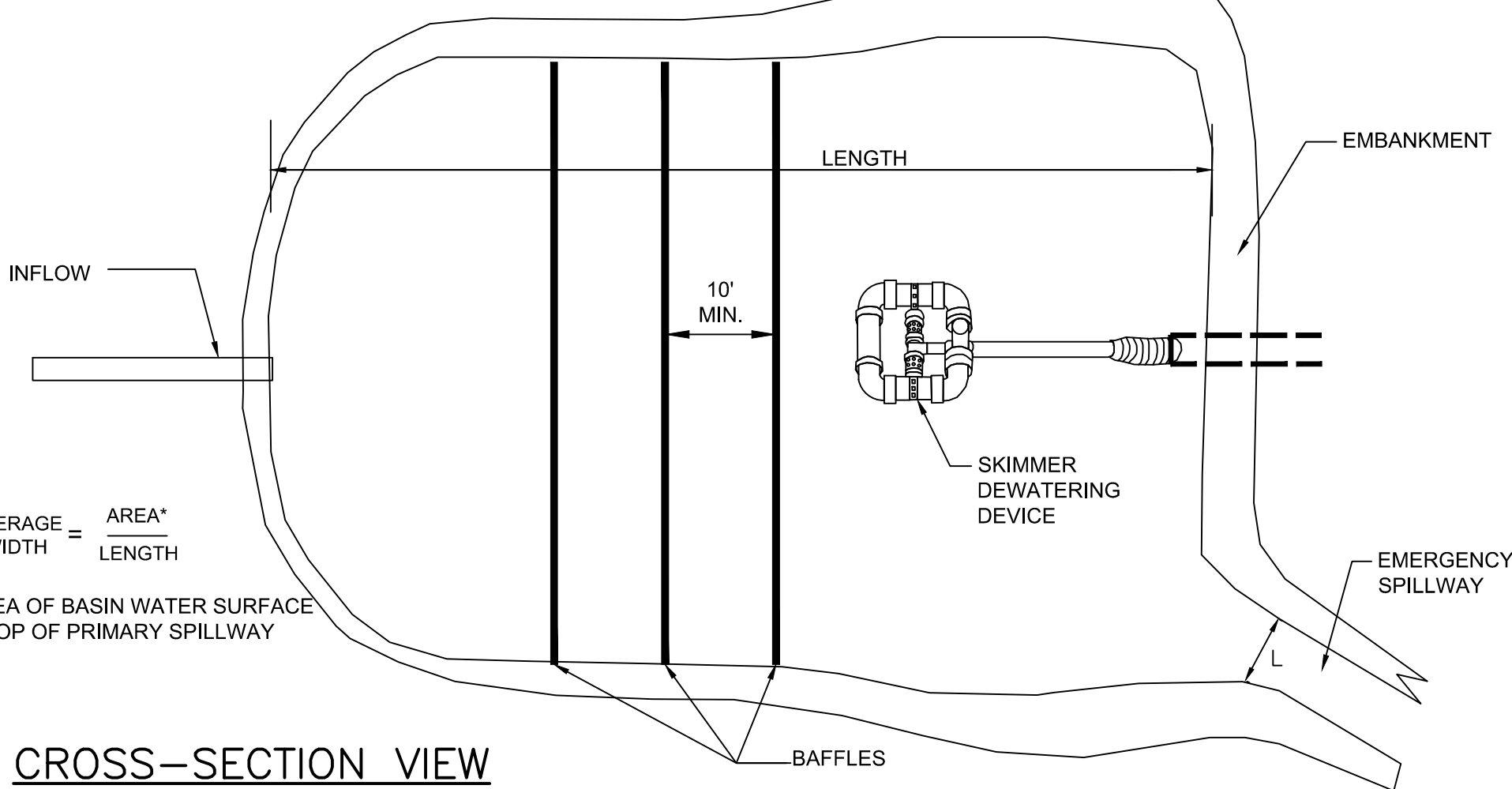
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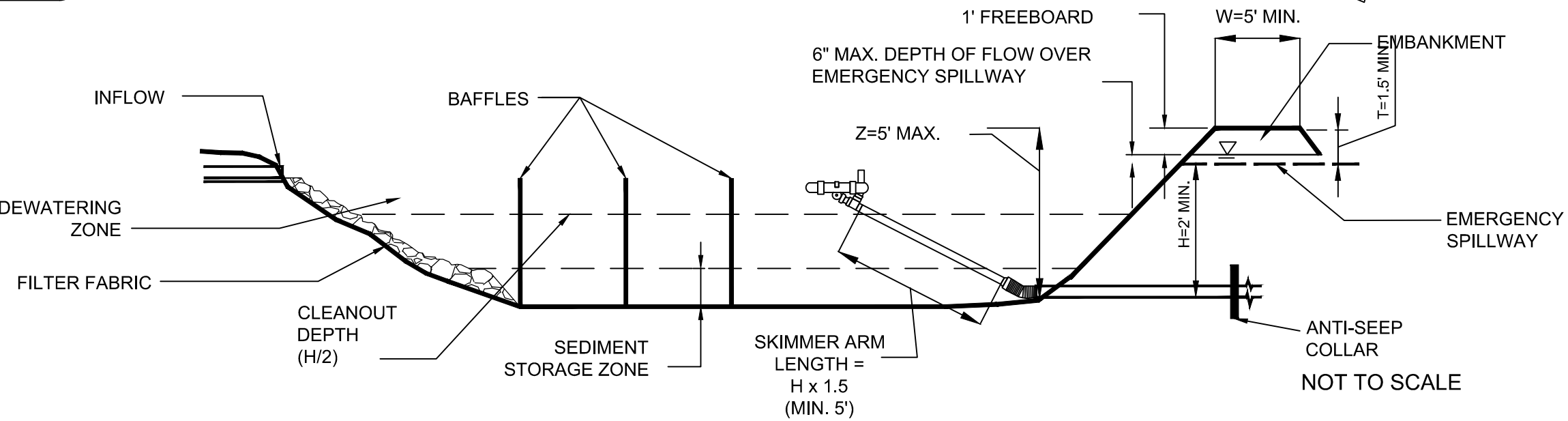
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SKIMMER SEDIMENT BASIN DESIGN CRITERIA	
DRAINAGE AREA (ACRES)	< 5 AC.
MIN. LENGTH TO WIDTH RATIO	2:1
MAX. LENGTH TO WIDTH RATIO	6:1
MIN. VOLUME REQUIRED	1800 (CU. FT. PER AC. DISTURBED)
SURFACE AREA REQUIRED	325 (SQ. FT. PER CFS Q10)

PLAN VIEW



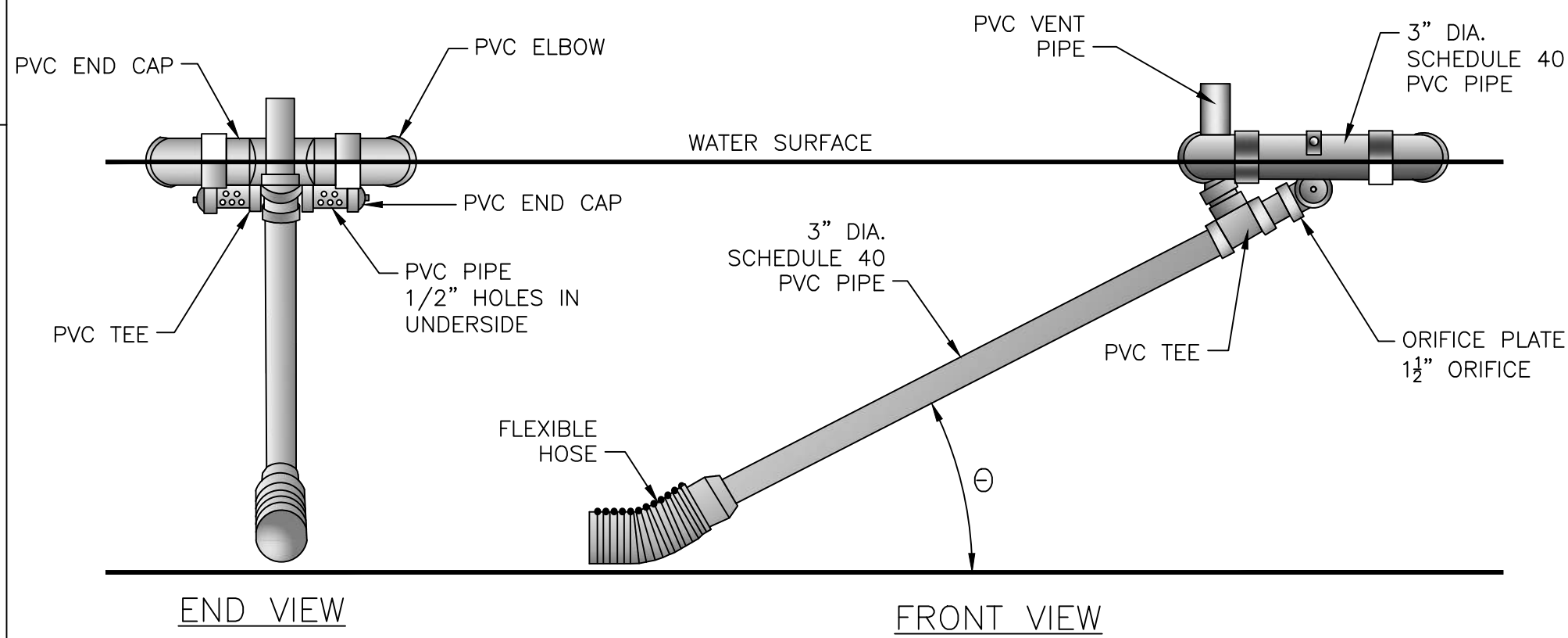
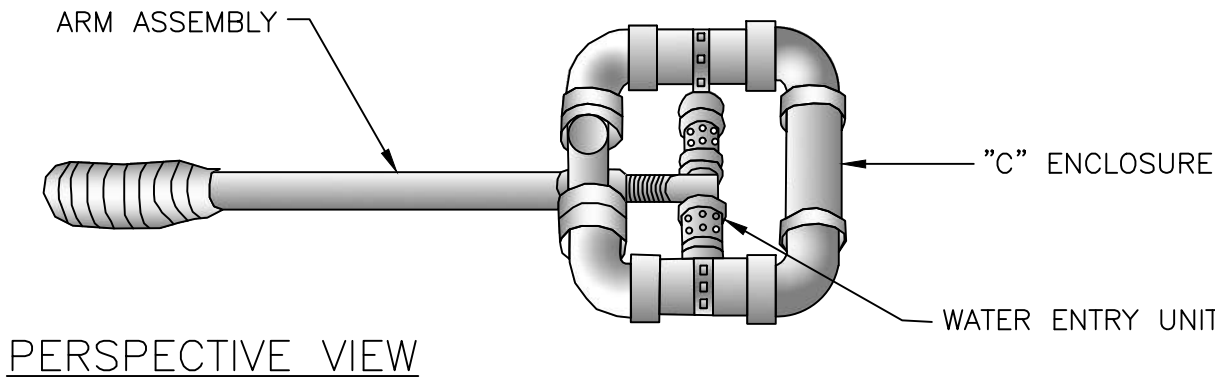
CROSS-SECTION VIEW



NOTES:

1. REFER TO NCESCPDM SECTION #6.64 FOR ADDITIONAL DESIGN SPECIFICATIONS REGARDING SKIMMER SEDIMENT BASINS.
2. REFER TO NCESCPDM SECTION #6.65 FOR BAFFLE SPACING AND INSTALLATION.
3. H = SPILLWAY ELEVATION - SKIMMER INVERT ELEVATION.
4. USE FOR DRAINAGE AREAS NOT EXCEEDING 10 ACRES.
5. EARTH BERM SHALL BE STABILIZED WITH SEEDING ACCORDING TO SPECIFICATIONS.

C1 SKIMMER SEDIMENT BASIN NOT TO SCALE



A1 SKIMMER NOT TO SCALE

A4 SEDIMENT BAFFLE NOT TO SCALE

BAFFLE INSTALLATION -STEP 1

1. GRADE THE BASIN SO THAT THE BOTTOM IS LEVEL FRONT TO BACK AND SIDE TO SIDE.
2. DRIVE STEEL FENCE POST AT LEAST 24" INTO SOLID GROUND.
3. WOOD POSTS ARE NOT ACCEPTABLE.
4. WHEN USING POSTS, ADD SUPPORT WIRE OR ROPE ACROSS THE TOP OF THE MEASURE TO PREVENT SAGGING.
5. USE STAPLES 1' APART TO ATTACH FABRIC TO "HOG WIRE" BAFFLE.
6. INSTALL AT LEAST 3 ROWS OF BAFFLES BETWEEN THE INLET AND OUTLET DISCHARGE POINT. SPACED AS PER APPROVED PLAN.
7. THE BOTTOM AND SIDES OF THE FABRIC SHOULD BE ANCHORED IN A TRENCH OR PINNED WITH 8-INCH EROSION CONTROL MATTING STAPLES.
8. DO NOT SPLICE THE FABRIC, BUT USE A CONTINUOUS PIECE ACROSS THE BASIN.

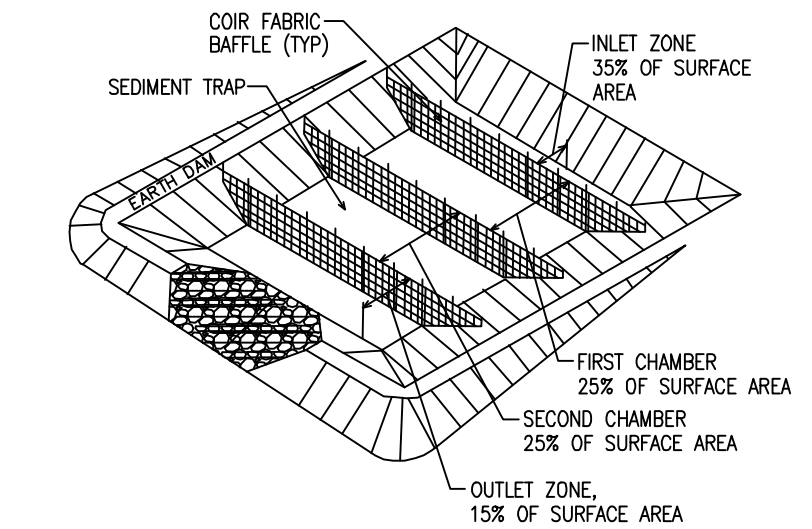
BAFFLE NOTES:

THICKNESS	0.3 IN. MINIMUM
TENSILE STRENGTH	1248 X 626 LB/FT MINIMUM
ELONGATION	34% X 38% MAXIMUM
FLEXIBILITY (MG-OM)	65030 X 29590
FLOW VELOCITY	OBSERVED 11 FT/SEC
WEIGHT	20 OZ/SY
SIZE	6.6 X 164 FT (120 SY)
"C" FACTOR	0.002
OPEN AREA (MEASURED)	50%

BAFFLE INSTALLATION -STEP 2

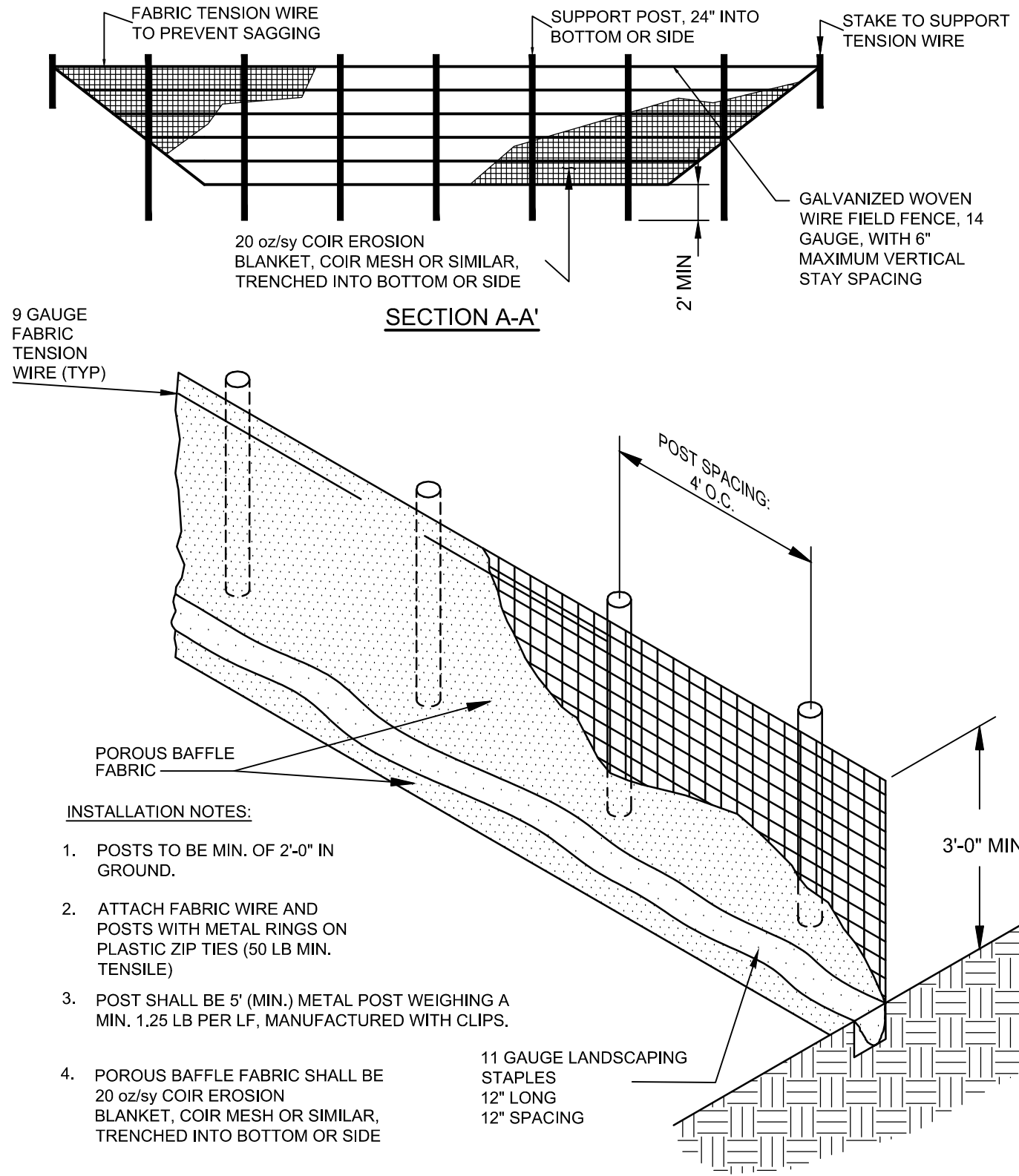
9. MATTING: PROVIDE MATTING TO MEET THE FOLLOWING REQUIREMENTS: 100% COCONUT FIBER (COIR) TWINE WOVEN INTO HIGH STRENGTH MATRIX

FABRIC INSTALLATION



- MAINTENANCE:
- INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.
- AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND STABILIZE IT.

SECTION A-A'



MAINTENANCE NOTES:

1. INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL, TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES.
4. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT, AND REPLACE IF DAMAGED.
5. DURING CLEANOUT OPERATIONS, SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.
6. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND STABILIZE IT

NOTES:

1. BAFFLE FABRIC SHALL CONSIST OF 700 G/M COIR EROSION CONTROL BLANKET OR APPROVED SUBSTITUTE. A SINGLE CONTINUOUS LENGTH OF FABRIC SHALL EXTEND ACROSS THE FULL WIDTH OF THE BASIN.
2. POSTS SHALL BE STEEL, MINIMUM 5 FEET LONG, AND OF THE SAME GENERAL TYPE AS THOSE SPECIFIED FOR SILT FENCE CONSTRUCTION.
3. THE TOP EDGE OF THE BAFFLE FABRIC SHALL BE SUPPORTED BY A TENSIONED CABLE OR ROPE EXTENDING ACROSS THE WIDTH OF THE BASIN AND ANCHORED ON EACH END.
4. THE BOTTOM EDGE OF THE BAFFLE FABRIC SHALL BE EMBEDDED IN A TRENCH EXCAVATED ALONG THE BASIN BOTTOM AND SIDE SLOPES.
5. BAFFLE FABRIC SHALL BE ATTACHED TO SUPPORT POSTS WITH HEAVY-DUTY PLASTIC CABLE TIES, OR SIMILAR MEANS.
6. BAFFLES SHALL BE SPACED IN THE DIRECTION OF FLOW TO PROVIDE THE SURFACE AREAS SHOWN.
7. THE BASIN SLOPES SHALL BE SEEDED AND THE SLOPES SHALL BE MATTED IMMEDIATELY AFTER THE BASIN IS CONSTRUCTED.
8. SEE THIS SHEET FOR ADDITIONAL BASIN INFORMATION.

APPR

DATE

SYM

DESCRIPTION

440 S. CHURCH STREET, SUITE 1000
CHARLOTTE, NC 28202
TEL (704)338-6700

APPROVED
AE INFO

FOR COMMANDER NAVFAC
ACTIVITY

Approved by Emily Sylvester, Director of
Installation Development Division

BATHFACTORY TO DATE 06/19/2020

DES DRW CHK

PMOM SGLRMS

BRANCH MANAGER DLB

CHIEF ENGINEER EJA

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID ATLANTIC
CAMP LEEUE - JACKSONVILLE NC
JACKSONVILLE, NORTH CAROLINA
P1395 MARINE RAIDER HEADQUARTERS
MARSOC

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MIDLAND CI CORE

SCALE: AS NOTED

EPROJECT NO.: 1603164

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12794273

SHEET 54 OF 228

C-513

DRAWFORM REVISION: 17 APRIL 2018

EROSION CONTROL DETAILS

UNCLASSIFIED

D

C

UNCLASSIFIED

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