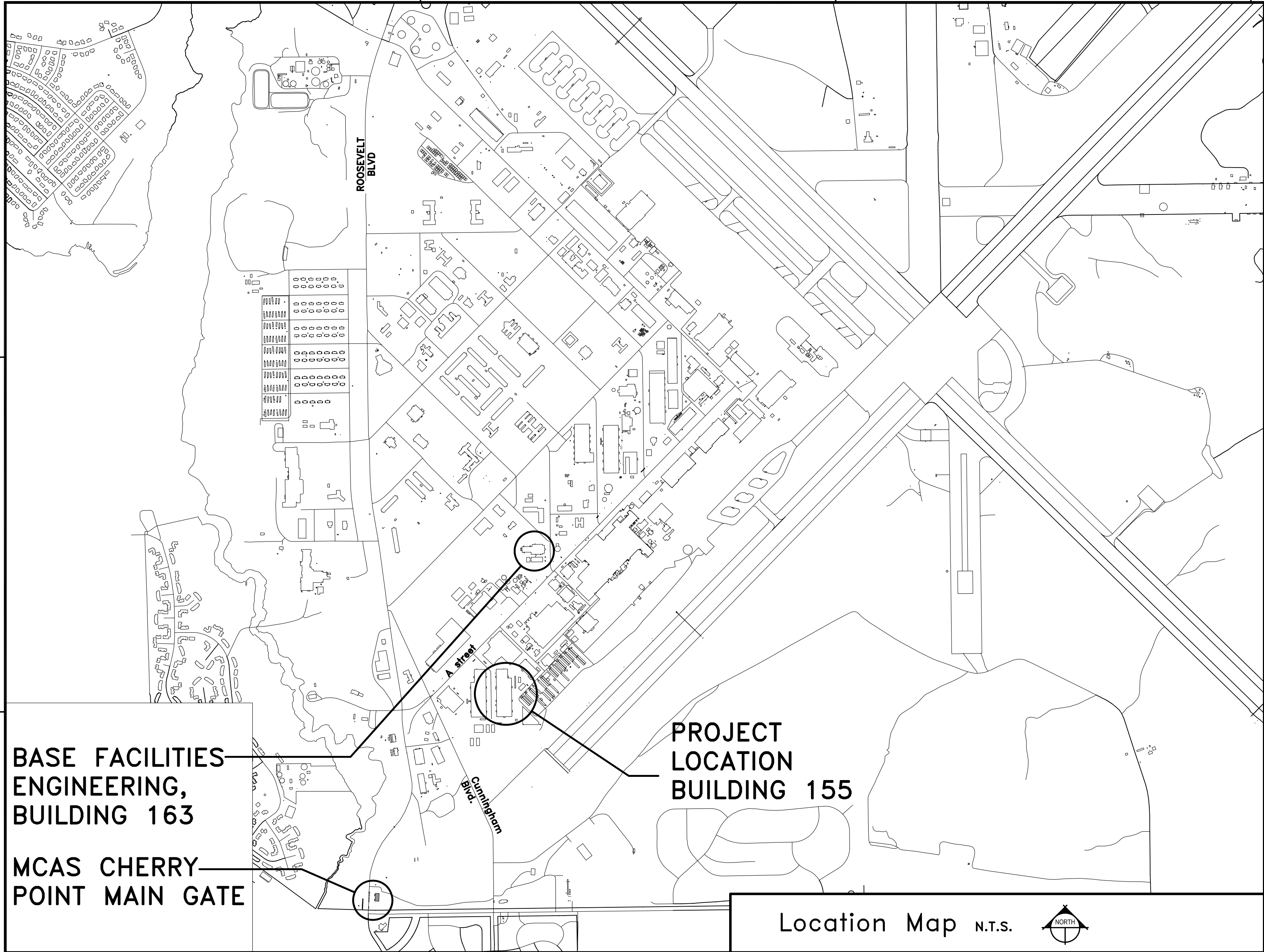
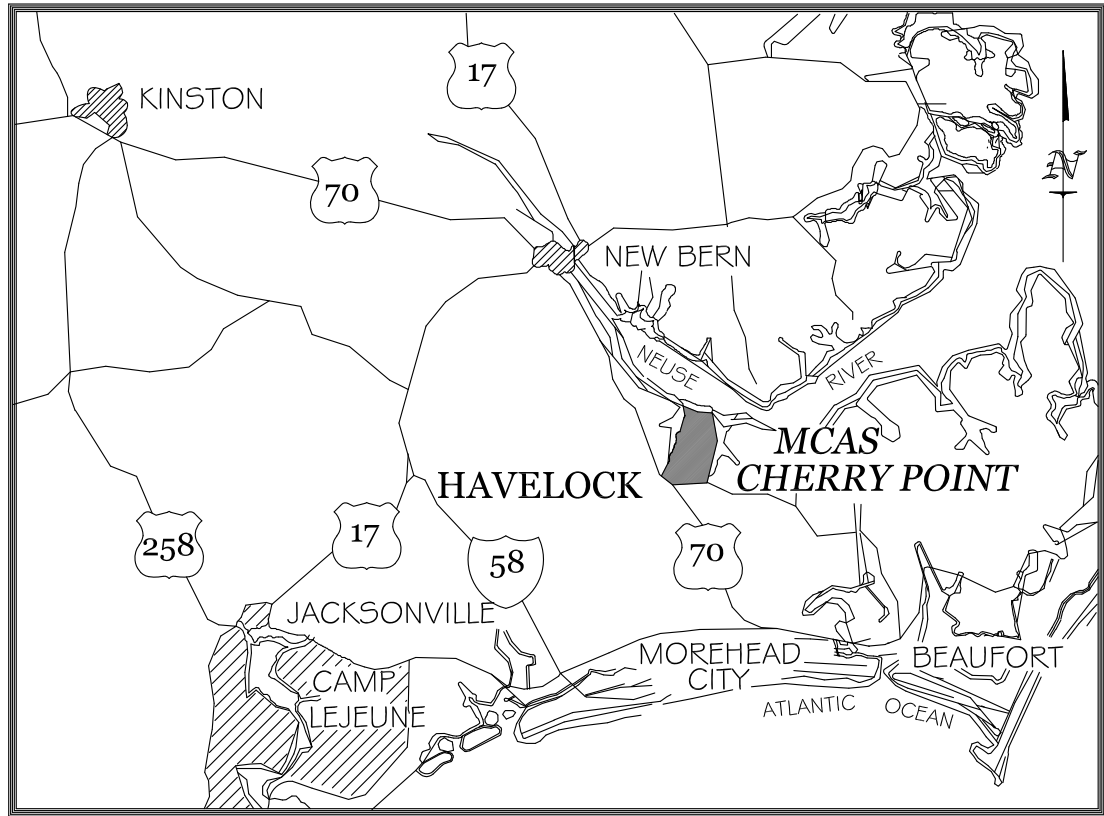


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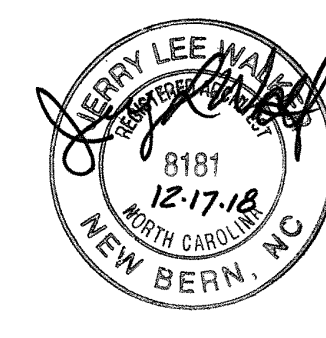
ARCHITECTURAL SYMBOLS LEGEND			
	DEMOLITION KEYNOTE DESIGNATION		INTERIOR ELEVATION REFERENCE: ARROW INDICATES DIRECTION OF VIEW LETTER INDICATES ELEVATION SHEET WHERE ELEVATION IS DRAWN
	CONSTRUCTION KEYNOTE DESIGNATION		REVISION DESIGNATION: MOST CURRENT REVISION SHOWN CLOUDED ON DRAWING; RE: REVISION LIST IN TITLE BLOCK
	SPECIAL KEYNOTE DESIGNATION		WINDOW DESIGNATION MARK: - SEE DOOR SCHEDULE
	PARTITION TYPE DESIGNATION: - SEE DOOR SCHEDULE		COLUMN REFERENCE GRID
	DOOR DESIGNATION MARK: - SEE DOOR SCHEDULE		INDICATES LEVEL LINE, CONTROL POINT, OR DATUM CLG. HT. AT DESIGNATED LOCATION
PLAN, SECTION, OR DETAIL TITLE: SECTION/DETAIL SCALE: X" = 1'-0" XXXX, XXXX		DRAWING NAME DRAWING SCALE NORTH INDICATOR (PLANS ONLY) TN PN SCALE: X" = 1'-0"	
DRAWING LETTER		ROOM NAME DESIGNATION: ROOM NAME ROOM FINISH IDENTITY ROOM NUMBER	
SCALE RULER SCALE 1/32" = 1'-0"		GRAPHIC SCALE REFERENCE: 0 16' 32' 64'	



# BUILDING 155-RENOVATIONS AND IMPROVEMENTS MCAS-CHERRY POINT, NC

## INDEX OF DRAWINGS

NAVFAC NO.	SHEET NO.	TITLE
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12782049	G1101	LIFE SAFETY PLAN
12782050	H-101	LEAD & ASBESTOS LOCATION PLAN
12782051	CD101	SITE PLAN - EXISTING CONDITIONS AND DEMOLITION
12782052	CD102	SITE PLAN - EXISTING CONDITIONS AND DEMOLITION
12782053	CS101	SITE LAYOUT PLAN
12782054	CS102	SITE LAYOUT PLAN
12782055	CG101	SITE GRADING PLAN
12782056	CG102	SITE GRADING PLAN
12782057	CU101	SITE UTILITY PLAN
12782058	CS501	DETAILS
12782059	CS502	DETAILS
12782060	CG501	DETAILS
12782061	CU501	DETAILS
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12782063	S-101	STRUCTURAL SLAB PLAN - BAY A
12782064	S-102	PARTIAL CANOPY FRAMING PLANS - BAY A
12782065	S-301	SECTIONS
12782066	S-501	TYPICAL DETAILS
12782067	AD101	DEMOLITION FLOOR PLAN - BAY A
12782068	AD102	DEMOLITION FLOOR PLAN - BAY B
12782069	AD103	DEMOLITION FLOOR PLAN - BAY C
12782070	AD104	DEMOLITION FLOOR PLAN - BAY D
12782071	AD105	DEMOLITION REFLECTED CEILING PLAN
12782072	AD106	DEMOLITION ROOF PLAN
12782073	AD201	DEMOLITION ELEVATIONS
12782074	AD202	DEMOLITION ELEVATIONS
12782075	AD301	DEMOLITION SECTIONS
12782076	AD401	ENLARGED DEMOLITION FLOOR PLAN
12782077	A-101	CONSTRUCTION FLOOR PLAN - BAY A
12782078	A-102	CONSTRUCTION FLOOR PLAN - BAY A
12782079	A-103	CONSTRUCTION FLOOR PLAN - BAY C
12782080	A-104	CONSTRUCTION FLOOR PLAN - BAY D
12782081	A-105	CONSTRUCTION REFLECTED CEILING PLAN
12782082	A-106	CONSTRUCTION ENLARGED REFLECTED CEILING PLAN
12782083	A-107	CONSTRUCTION ROOF PLAN
12782084	A-201	CONSTRUCTION ELEVATIONS
12782085	A-202	CONSTRUCTION ELEVATIONS
12782086	A-301	CONSTRUCTION SECTIONS
12782087	A-401	ENLARGED CONSTRUCTION FLOOR PLAN
12782088	A-402	ENLARGED CONSTRUCTION FLOOR PLAN
12782089	A-403	INTERIOR ELEVATIONS
12782090	A-501	DETAILS
12782091	A-502	METAL SHELTER STRUCTURE DETAILS
12782092	A-503	WALL SECTIONS
12782093	A-601	DOOR SCHEDULE AND DETAILS
12782094	A-602	DETAILS
12782095	FA001	FIRE ALARM NOTES, LEGEND, AND ABBREVIATIONS
12782096	FD100	FIRE ALARM DEMOLITION PLAN - BAY 'B'
12782097	FA101	FIRE ALARM NEW WORK PLAN - BAY 'A'
12782098	FA102	FIRE ALARM NEW WORK PLAN - BAY 'B'
12782099	FA103	FIRE ALARM NEW WORK PLAN - BAY 'C'
12782100	FA104	FIRE ALARM NEW WORK PLAN - BAY 'D'
12782101	FA501	FIRE ALARM DETAILS
12782102	FX001	FIRE PROTECTION NOTES, LEGEND, AND ABBREVIATIONS
12782103	FD101	FIRE PROTECTION DEMOLITION PLAN - BAY 'A'
12782104	FD102	FIRE PROTECTION DEMOLITION PLAN - BAY 'B'
12782105	FD103	FIRE PROTECTION DEMOLITION PLAN - BAY 'C'
12782106	FD104	FIRE PROTECTION DEMOLITION PLAN - BAY 'D'
12782107	FX101	FIRE PROTECTION NEW WORK PLAN - BAY 'A'
12782108	FX102	FIRE PROTECTION NEW WORK PLAN - BAY 'B'
12782109	FX103	FIRE PROTECTION NEW WORK PLAN - BAY 'C'
12782110	FX104	FIRE PROTECTION NEW WORK PLAN - BAY 'D'
12782111	P-001	PLUMBING NOTES, LEGEND, SCHEDULES, & ABBREVIATIONS
12782112	P-002	PLUMBING FIXTURE PLATES
12782113	PD101	PLUMBING DEMOLITION PLAN - BAY 'A'
12782114	P-101	PLUMBING NEW WORK PLAN - BAY 'A'
12782115	P-401	PLUMBING ENLARGED PLANS - DEMOLITION & NEW WORK - WASTE
12782116	P-402	PLUMBING ENLARGED PLANS - DEMOLITION & NEW WORK - WATER
12782117	P-701	PLUMBING RISER DIAGRAMS AND DETAILS
12782118	M-001	MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS
12782119	MD101	MECHANICAL DEMOLITION PLAN - BAY 'A'
12782120	MD102	MECHANICAL DEMOLITION PLAN - BAY 'B'
12782121	MD103	MECHANICAL DEMOLITION PLAN - BAY 'C'
12782122	MD104	MECHANICAL DEMOLITION PLAN - BAY 'D'
12782123	M-101	MECHANICAL NEW WORK PLAN - BAY 'A'
12782124	M-102	MECHANICAL NEW WORK PLAN - BAY 'B'
12782125	M-103	MECHANICAL NEW WORK PLAN - BAY 'C'
12782126	M-104	MECHANICAL NEW WORK PLAN - BAY 'D'
12782127	M-401	MECHANICAL ENLARGED FLOOR PLANS
12782128	M-501	MECHANICAL DETAILS
12782129	M-502	MECHANICAL DETAILS
12782130	M-601	MECHANICAL SCHEDULES AND CONTROLS
12782131	E-001	ELECTRICAL NOTES
12782132	E-002	ELECTRICAL LEGEND AND ABBREVIATIONS
12782133	ES101	ELECTRICAL SITE PLAN
12782134	ES801	ELECTRICAL SITE DETAILS
12782135	ES802	ELECTRICAL SITE DETAILS
12782136	ED101	ELECTRICAL DEMOLITION PLAN - BAY 'A'
12782137	E-101	ELECTRICAL NEW WORK PLAN - BAY 'A'
12782138	E-102	ELECTRICAL NEW WORK PLAN - BAY 'B'
12782139	E-103	ELECTRICAL NEW WORK PLAN - BAY 'C'
12782140	E-104	ELECTRICAL NEW WORK PLAN - BAY 'D'
12782141	E-401	ELECTRICAL ENLARGED PLANS
12782142	E-601	ELECTRICAL LIGHTING DETAILS
12782143	E-701	ELECTRICAL RISER DIAGRAMS
12782144	E-801	ELECTRICAL PANELBOARD SCHEDULES
12782145	E-802	ELECTRICAL PANELBOARD SCHEDULES
12782146	T-001	TELECOMMUNICATIONS GENERAL NOTES, LEGEND, AND ABBREVIATIONS
12782147	T-101	TELECOMMUNICATIONS NEW WORK PLAN - BAY 'A'
12782148	TY001	SECURITY GENERAL NOTES, LEGEND, AND ABBREVIATIONS
12782149	TY101	SECURITY NEW WORK PLAN - BAY 'A'



APPROVED	A/E INFO
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO	
DES JLW	DRW SAM
CHK JLW	

U.S. MARINE CORPS AIR STATION	CHERRY POINT, NORTH CAROLINA
BUILDING 155-RENOVATIONS AND IMPROVEMENTS	
MCAS-CHERRY POINT, NC	
TITLE SHEET, SITE MAP, AND INDEX OF DRAWINGS	

SCALE: AS NOTED
PROJECT NO.: XH67399
MAXIMO WORK ORDER NO. 6638499
NAVFAC DRAWING NO. 12782047
SHEET 1 OF 103
G-101
DRAWING REVISION: 10 MAY 2014



NFPA 101  
LIFE SAFETY CODE

- FIRE/SMOKE PROTECTION FEATURES (FIRE RATED CONSTRUCTION)
- MEANS OF EGRESS
- INTERIOR FINISH
- VERTICAL OPENINGS

UFC 1-200-01  
DoD BUILDING CODE  
(GENERAL BUILDING REQUIREMENTS)

- ALLOWABLE CONSTRUCTION TYPE
- BUILDING HEIGHT
- BUILDING AREA
- BUILDING SEPERATION DISTANCE
- OCCUPANCY SEPERATION

IBC  
INTERNATIONAL BUILDING CODE

FIRE PROTECTION ENGINEER OF RECORD:  
MARTIN FORD PE, RCDD

MEANS OF EGRESS (CHAPTER 7, GENERAL)

	REQUIRED	PROVIDED	CODE REFERENCE
MIN. EXIT SEPARATION DISTANCE	1/3 (DIAGONAL) 1/3 (158') 53 FT	199 FT	CHAPTER 7 - (7.5.1.3.3)
MIN. NUMBER OF EXITS	(2) PER TENANT SPACE	(11) TOTAL 2 IN TENANT SPACES	CHAPTER 42 - (42.2.4) AND (7.4.1.1)
MIN. WIDTH OF EXIT DOORS (CLEAR WIDTH)	32 IN.	33 IN.	CHAPTER 7 - (7.2.1.2.3.2)
CORRIDOR (CLEAR WIDTH) OCCUPANT LOAD > 50 PERSONS	44 IN.	N/A	CHAPTER 7 - (7.3.1.1)
CORRIDOR (CLEAR WIDTH) OCCUPANT LOAD < 50 PERSONS	36 IN.	N/A	CHAPTER 7 - (7.3.4.1)
MAX. COMMON PATH OF TRAVEL	100 FT	20 FT	CHAPTER 42.2.5
MAX. DEAD END	100 FT	N/A	CHAPTER 42.2.5
MAX. TRAVEL DISTANCE	400 FT	200'-0"	CHAPTER 42.2.6
ILLUMINATION OF MEANS OF EGRESS	YES	YES	CHAPTER 7 - (7.8.1.3) <sup>1</sup>
EMERGENCY LIGHTING	YES	YES	CHAPTER 42 - (42.2.9) <sup>2</sup>
EXIT LIGHTS (MARKING OF MEANS OF EGRESS)	YES	YES	CHAPTER 7 - (7.10) & UFC 3-600-01 - (10-2)
STAIR WIDTH	44 IN.	N/A	CHAPTER 7 - (TABLE 7.2.2.2.1.2 B) <sup>3</sup>
STAIR MAX. HEIGHT OF RISER	7 IN.	N/A	CHAPTER 7 - TABLE 7.2.2.2.1.1 (A)
STAIR MIN. HEIGHT OF RISER	4 IN.	N/A	CHAPTER 7 - TABLE 7.2.2.2.1.1 (A)
MIN. STAIR TREAD DEPTH	11 IN.	N/A	CHAPTER 7 - TABLE 7.2.2.2.1.1 (A)
MIN. HEADROOM	6' - 8'	N/A	CHAPTER 7 - TABLE 7.2.2.2.1.1 (A)
MAX. HEIGHT BETWEEN LANDINGS	12 FT.	N/A	CHAPTER 7 - TABLE 7.2.2.2.1.1 (A)
LANDINGS	NOT LESS THAN THE WIDTH OF THE STAIR	N/A	CHAPTER 7 - (7.2.2.3.2.3)

NOTES:

- 1) 10 FT-CANDLE FOR NEW STAIRS. 1 FT-CANDLE FOR WALKING SURFACES.  
ASSEMBLY : 2 FT-CANDLE FOR WALKING SURFACES
- 2) 50 OR MORE OCCUPANTS ABOVE LEVEL OF EXIT DISCHARGE - 1 1/2HRS REQUIRED AUTOMATIC AFTER FAILURE OF NORMAL LIGHTING AVERAGE 1 FT-CANDLE
- 3) LESS THAN 2000 PERSONS
- ARRANGEMENT OF EXITS (REMOTENESS) FROM EACH OTHER; IN BUILDINGS PROTECTED BY AN APPROVED, SUPERVISED AUTOMATIC SPRINKLER SYSTEM, THE MINIMUM SEPARATION DISTANCE BETWEEN TWO EXITS, EXIT ACCESSES, OR EXIT DISCHARGES, MEASURED IN A STRAIGHT LINE BETWEEN THE NEAREST EDGE OF THE EXITS, SHALL BE NOT LESS THAN ONE-THIRD THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED, (PARA 7.5.1.3.3)
- ILLUMINATION REQUIREMENTS: (PARA 7.8.1.3) THE FLOORS AND OTHER WALKING SURFACES WITHIN AN EXIT AND WITHIN THE PORTIONS OF THE EXIT ACCESS AND EXIT DISCHARGE SHALL BE ILLUMINATED AS FOLLOWS:  
-STAIRS - 10FT CANDLE (108 LUX), MEASURED AT THE WALKING SURFACE  
-FLOORS AND OTHER WALKING SURFACES - 1-FT CANDLE (10.8 LUX) MEASURED AT THE FLOOR.  
-EMERGENCY LIGHTING (PARA 38.2.9.1) IS REQUIRED. THE BUILDING HAS MORE THAN 50 PERSONS ABOVE THE LEVEL OF EXIT DISCHARGE AND MORE THAN 300 PERSONS TOTAL. THE FOLLOWING REQUIREMENTS ARE NECESSARY:  
-(PARA 7.9.2.1.1) - MINIMUM DURATION OF 1-1/2 HOURS AFTER NORMAL LIGHTING FAILURE.  
-(PARA 7.9.2.1.1) - PROVIDE INITIAL ILLUMINATION THAT IS NOT LESS THAN AN AVERAGE OF 1-FT CANDLE (10.8 LUX) AND, AT ANY POINT, NOT LESS THAN 0.1FT-CANDLE (1.1 LUX), MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL.  
-(PARA 7.9.2.1.2) - LEVELS AFTER 1-1/2 HOURS MAY DECLINE TO AN AVERAGE OF .6FT-CANDLE (6.5 LUX) AND .06 FT-CANDLE (0.65 LUX) AT ANY POINT.  
-(PARA 7.9.2.3) - LIGHTING SHALL AUTOMATICALLY BE PROVIDED FOR SUCH EVENTS AS FAILURE OF THE PUBLIC UTILITY, OPENING OF A CIRCUIT BREAKER, OR A MANUAL ACT INCLUDING ACCIDENTAL OPENING OF A SWITCH CONTROLLING THE NORMAL LIGHTING FACILITIES.

INTERIOR FINISH

VERTICAL EXITS AND EXIT PASSAGEWAYS	CLASS A OR B WITH AUTOMATIC FIRE SPRINKLER PROTECTION. CLASS A FOR STAIRWAYS.
EXIT ACCESS CORRIDORS AND OTHER EXIT WAYS	STORAGE/BUSINESS - EXITS : CLASS A, EXIT
ROOMS AND ENCLOSED SPACES	CLASS C WITH AUTOMATIC FIRE SPRINKLER PROTECTION.
FLOOR FINISH	STORAGE/BUSINESS - EXITS, EXIT ACCESS CORRIDORS AND CEILING FINISHES : CLASS I OR CLASS II
INTERIOR WALL AND CEILING FINISHES	STORAGE/BUSINESS - CLASS A, B, OR C FOR SPRINKLER SYSTEM INSTALLATION; CLASS B MAY REPLACE CLASS A. CLASS C MAY REPLACE CLASS B (10.2.8.1)

	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
CLASS A	0 - 25	0 - 450
CLASS B	26 - 75	0 - 450
CLASS C	76 - 200	0 - 450

UFC 3-600-01  
FIRE PROTECTION ENGINEERING FOR FACILITIES

OCCUPANCY CLASSIFICATION

OCCUPANCY PER NFPA 101	FLOOR LEVEL	OCCUPANCY PER IBC
ORDINARY HAZARD STORAGE & ACCESSORY BUSINESS NFPA 101 - CHAPTER 42	1	MODERATE HAZARD STORAGE (S-1) BUSINESS (B) - ACCESSORY TO S-1 IBC 2015 - CHAPTER 3

FIRE PROTECTION ( CHAPTER 9)

	REQUIRED	EXISTING	CODE REFERENCE
FIRE SPRINKLER SYSTEM	YES	YES	NFPA 13 AND UFC - 3-600-01 (PARA 9-7.2.1.2)
MASS NOTIFICATION	YES	TO BE REPLACED	UFC - 4-021-01, UFC 4-010-01 (PARA B-4.6.1)
FIRE ALARM	YES	TO BE REPLACED	UFC - 3-600-01 PARAGRAPH 9-18
SMOKE CONTROL (SERVER RM)	N/A	N/A	ETL 01-18
SMOKE CONTROL (ATRIUM)	N/A	N/A	
MANUAL FIRE EXTINGUISHERS	NO	YES	UFC - 3-600-01 SECTION 9-17 (SPRINKLER AND FIRE ALARM PRESENT)

REFERENCE CODES & STANDARDS

CODE NUMBER	CODE TITLE / LATEST VERSION
IBC -----	INTERNATIONAL BUILDING CODE - 2015
NFPA 1 -----	FIRE CODE
NFPA 10 -----	STANDARD FOR PORTABLE FIRE EXTINGUISHERS - 2015
NFPA 13 -----	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS - 2015
NFPA 70 -----	NATIONAL ELECTRIC CODE - 2015
NFPA 72 -----	NATIONAL FIRE ALARM CODE - 2015
NFPA 101 -----	LIFE SAFETY CODE - 2015
UFC 3-600-01 -----	UNIFIED FACILITIES CRITERIA
	'FIRE PROTECTION ENGINEERING FOR FACILITIES' - CHANGE 2, MARCH 2018
UFC 4-010-01 -----	DoD MINIMUM ANTI-TERRORISM STANDARDS FOR BUILDINGS - CHANGE 1, 1 OCT 2013
UFC 4-021-01 -----	DESIGN AND O&M MASS NOTIFICATION SYSTEMS - CHANGE 1, JAN 2010
UFC 1-200-01 -----	DoD BUILDING CODE - 20 JUN 2016
UFC 4-440-01 -----	WAREHOUSES AND STORAGE FACILITIES - OCT 2014
UFAS -----	UNIFORM FEDERAL ACCESSIBILITY STANDARDS - 2015
ADAAG -----	ACCESSIBILITY GUIDELINES FOR ADA COMPLIANCE - 2015

SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

- WAREHOUSE AND STORAGE FACILITIES

WAREHOUSE AND STORAGE FACILITY CONSIDERATIONS

CEILING HEIGHT GREATER THAN 12 FT? (4-44.1.2)	YES
HAZARDOUS, FLAMMABLE OR COMBUSTIBLE STORAGE PRESENT? (4-44.1.3)	NO
WHAT MATERIALS ARE BEING STORED	AIRCRAFT PARTS
ARE RACKS UTILIZED? (4-44.2.25)	NO - SHELVES
SPRINKLER PROTECTION DESIGNED TO MINIMUM CLASS IV, NON-ENCAPSULATED COMMODITIES (4-44.2.3.1)	ORDINARY HAZARD - PIPE SCHEDULE - DRY PIPE
MAXIMUM POTENTIAL HEIGHT OF STORAGE? (4-44.2.3.1)	23' - 7"
WHAT IS ROOF SLOPE? (4-44.2.9)	FLAT
ANY BIN STORAGE? (4-44.3)	NONE OBSERVED
FIRE AREAS EXCEED 60,000FT <sup>2</sup> (4-44.5.1)	NO
SPRINKLER RISER VALVES ACCESSIBLE FROM THE EXTERIOR? (4-44.2.6)	NO
4-HOUR FIRE WALLS SEPARATING FIRE AREAS?	YES (12" TERRA COTTA BLOCK WALL)
OFFICES AND SHOPS HAVE MINIMUM 1-HR RATING?	TO BE PROVIDED

OCCUPANT LOAD & EGRESS CAPACITY

OCCUPANT LOAD	STORAGE - 500 FT. <sup>2</sup> PER PERSON BUSINESS - 100 FT. <sup>2</sup> PER PERSON (ACCESSORY TO STORAGE S-1)
CODE REFERENCE	TABLE 7.3.1.2
EGRESS CAPACITY PROVIDED	TOTAL OCCUPANT LOAD - 154
EGRESS LIMITING FACTOR	DOORS : 33"/2 = 165 PEOPLE

FIRE RESISTANCE RATINGS

BUILDING ELEMENT OR AREA	RATING ( HOURS)		CODE REFERENCE
	REQUIRED	EXISTING	
STRUCTURAL FRAME	0	0	IBC TABLE 601, 602
EXTERIOR WALLS - BEARING	0	0	IBC TABLE 601, 602
EXTERIOR WALLS - NON BEARING	0	0 *	IBC TABLE 601, 602
INTERIOR WALLS - BEARING	0	0	IBC TABLE 601
INTERIOR WALLS - NON BEARING	0	0	IBC TABLE 601
SECOND FLOOR CONSTRUCTION	0	0	IBC TABLE 601
ROOF CONSTRUCTION	0	0	IBC TABLE 601

\*2hr exterior wall construction will be provided in Bay 'A' for future adjacent Laser Shock Peening Building. Imaginary Lot Line will be 2'-5" away from B155 exterior wall.

BUILDING DESCRIPTION

TYPE OF CONSTRUCTION	V-B
NUMBER OF STORIES	1 STORY
OVERALL HEIGHT	25'-1"
PROPOSED BUILDING USAGE	STORAGE (S-1) BUSINESS - ACCESSORY TO STORAGE (S-1)
OCCUPANCY SEPARATION	SINGLE OCCUPANCY (NOTE: PER UFC PARA 4-44.5.2.2 - 1HR FIRE RATED CONSTRUCTION IS REQUIRED)
PARTITIONS AND BARRIERS	OPENINGS IN FIRE BARRIERS ARE LIMITED TO A MAX AGGREGATE WIDTH OF 25% OF THE LENGTH OF THE WALL.

ALLOWABLE HEIGHT AND AREA (CHAPTER 5)

HEIGHT + STORIES (PER IBC TABLE 504.3, 504.4)	AREA (PER IBC TABLE 506.2)
ALLOWABLE	STORAGE (S-1) - 1 STORY TYPE V-B CONSTRUCTION WITH AUTOMATIC SPRINKLER SYSTEM: 36,000SF FRONTAGE INCREASE: $A_A = A_T + (N_S \times L_e)$ $A_A = 36,000 + (9000 \times .61)$ $A_A = 36,000 + 5490$ $AA = 41,490$  TOTAL ALLOWABLE AREA: 41,490SF
2-STORIES - 60'	
ACTUAL	
1-STORY - 25'-1"	TOTAL BUILDING AREA - 117,828 SQFT  BAY A - 25,517 SQFT BAY B - 32,060 SQFT BAY C - 32,060 SQFT BAY D - 28,191 SQFT  ALL BAYS SEPARATED BY EXISTING 4HR FIRE WALLS

FIRE RATED CONSTRUCTION

PARAGRAPH 706.6 VERTICAL CONTINUITY - FIRE WALLS SHALL EXTEND FROM THE FOUNDATION TO A TERMINATION POINT NOT LESS THAN 30IN ABOVE BOTH ADJACENT ROOFS.
PARAGRAPH 706.5 HORIZONTAL CONTINUITY - FIRE WALLS SHALL BE CONTINUOUS FROM EXTERIOR WALL TO EXTERIOR WALL AND EXTEND NOT LESS THAN 18 INCHES.
WAREHOUSE FIRE AREAS MUST NOT EXCEED 60,000FT <sup>2</sup>
MECHANICAL ROOMS: N/A
ELECTRICAL ROOMS: N/A
FIRE PUMP ENCLOSURE (UFC 3-600-01 PARA. 9-5.1.2) : N/A
SHAFTS (ELEVATORS, STAIRWAYS, AND MECHANICAL SHAFTS) : NOT APPLICABLE
CORRIDORS : NOT APPLICABLE
VERTICAL OPENINGS: NOT APPLICABLE
FIRE WALLS: EXISTING 4HR SEPARATING ALL BAYS IN THE BUILDING (4HR REQUIRED BY UFC 3-600-01)
FIRE AREAS MUST BE SEPARATED FROM OTHER FIRE AREAS BY 4HR FIRE WALLS IN ACCORDANCE WITH IBC CHAPTER "FIRE AND SMOKE PROTECTION FEATURES". FIRE WALLS MUST COMPLY WITH NFPA 221. EXTERIOR WALL FACING THE LASER SHOCK PEEING BUILDING IS REQUIRED TO BE 2HR MINIMUM PER EXPOSURES REQUIREMENT FROM ADJACENT BUILDINGS.



APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES: MHF | DRW: CAR | CHK: MHF

U.S. MARINE CORPS AIR STATION  
CHERRY POINT, NORTH CAROLINA  
BUILDING 155-RENOVATIONS AND IMPROVEMENTS  
MCAS-CHERRY POINT, NC  
LIFE SAFETY CODE ANALYSIS

SCALE: AS NOTED  
PROJECT NO.: XH67399  
MAXIMO WORK ORDER NO. 6638499  
NAVFAC DRAWING NO. 12782048  
SHEET 2 OF 103





GI001





CAD FILE: C:\Projects\2018\1805.B155\Correspondence\Govt\105%\Drawings\DWG\12782049.dwg



## LIFE SAFETY LEGEND

- |   |  |
|---|--|
|  | EXITS, BUILDING                                |
|  | CEILING MOUNTED EXIT SIGN                      |
|  | WALL MOUNTED EXIT SIGN WITH EMERGENCY LIGHTING |
|  | EXTERIOR EXIT LIGHTING                         |

- 
- Diagram illustrating the input data for the model, organized into two tables:
- | HEAD                  |     |   |  |  |
|-----------------------|-----|---|--|--|
| ROOM LABEL            | 70  |   |  |  |
| SQUARE FOOTAGE        | 100 | 1 |  |  |
| PERSONS PER SPACE     |     |   |  |  |
| OCCUPANCY LOAD FACTOR |     |   |  |  |
| OCCUPANCY             |     |   |  |  |
- 
- | DOOR                  |     |  |  |  |
|-----------------------|-----|--|--|--|
| EGRESS ELEMENT        | 33  |  |  |  |
| EGRESS WIDTH (CLEAR)  | 0.2 |  |  |  |
| EXIT WIDTH PER PERSON | 165 |  |  |  |
| CAPACITY (PEOPLE)     | 15  |  |  |  |
| ACTUAL PEOPLE         |     |  |  |  |

- |   |  |
|---|--|
|  | TRAVEL DISTANCE TO AN EXIT                               |
|  | COMMON PATH TO POINT WHERE TWO PATHS OF EGRESS AVAILABLE |

- ● ● — 2HR FIRE WALL
- ● — 1HR FIRE WALL


1" = 30'

A horizontal graphic scale bar with alternating black and white segments. It is marked with '0' at the left end, '15'' at the first segment boundary, '30'' at the second segment boundary, and '60'' at the right end.[illegible]

**WALKER**  
the **GROUP**  
**ARCHITECTURE**  
Incorporated  
PO BOX 541, NEW BERN, NC 28563  
252-636-8778 252-636-8992(FAX)

COMMONWEALTH OF VIRGINIA  
*Martin H. Ford*  
 MARTIN H. FORD  
 Lic. No. 048072  
 12/17/18  
 PROFESSIONAL ENGINEER

SEAL



	A/E INFO
APPROVED	

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO		
DES MHF	DRW CAR	CHK MHF


OLINA	
-------	--

## WITH CAR ENTS

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SCALE: AS NOTED		
PROJECT NO.:		XH67399

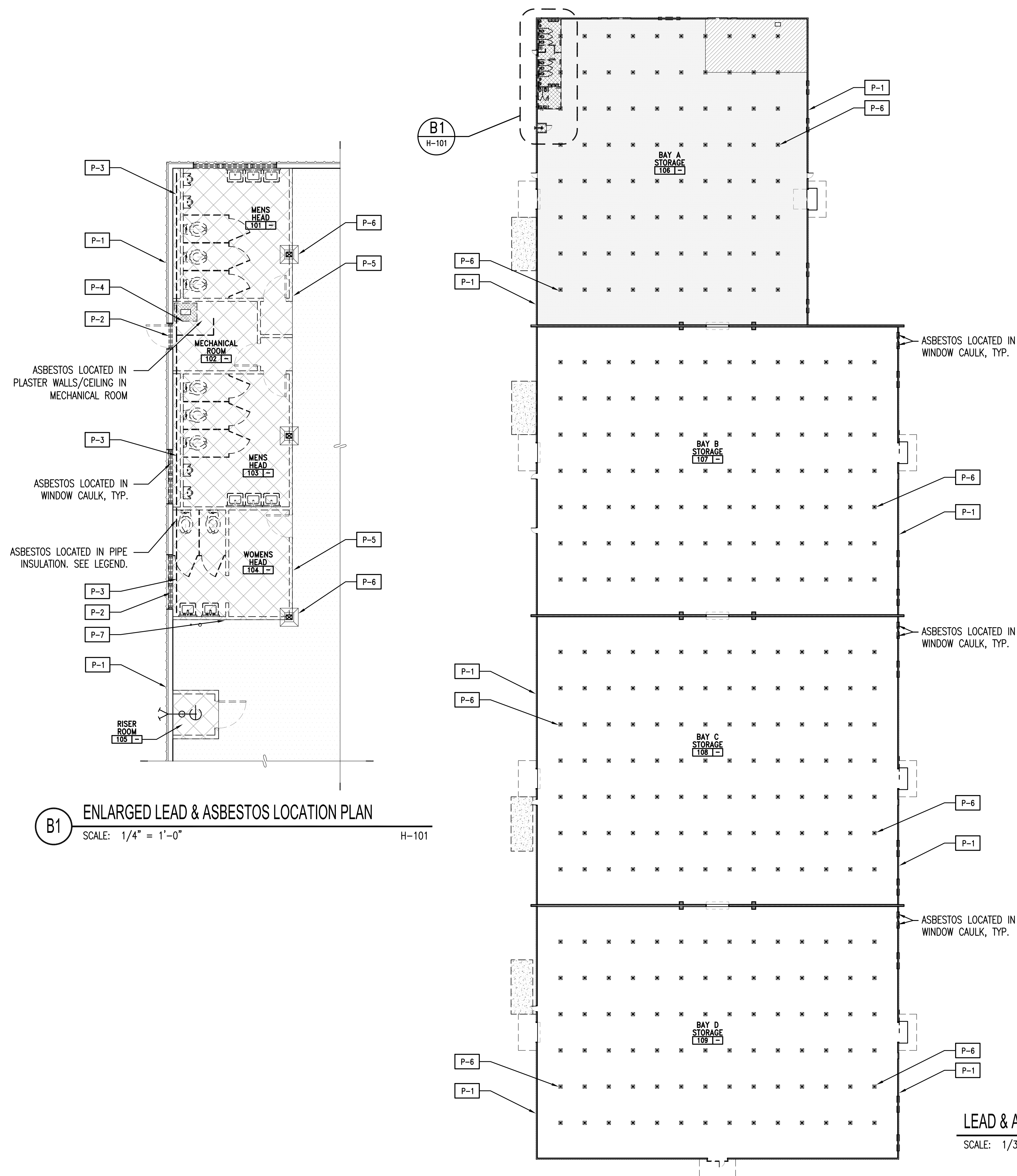
MAXIMO WORK ORDER NO.	6638499
NAVEAC DRAWING NO.	

12782049

SHEET 3 OF 103

**G1101**  
 DRAWFORM REVISION: 10 MAY 2014  
 OFFICIAL USE ONLY





## ASBESTOS IDENTIFICATION LEGEND

— — — ASBESTOS INSULATION

## Asbestos Identification

Material	Description	Location	Approx. Quantity	Action Required
EXTERIOR CAULK	OLD CAULK	EXTERIOR OLD WINDOWS	127LF	REMOVE*
PLASTER	WHITE/DAMAGED	MECHANICAL ROOM WALLS/CEILING	411 SF	REMOVE*
3" PIPE INSULATION RUN 1	WHITE FIBROUS INSULATION	EXT. WALLS AT HEADS	60LF	REMOVE*
3" PIPE INSULATION RUN 2	WHITE FIBROUS INSULATION	EXT. WALLS AT HEADS	60LF	REMOVE*
4" PIPE INSULATION	WHITE FIBROUS INSULATION	AT MECH ROOM BOILER	10LF	REMOVE*

* SEE SPECIFICATIONS FOR REMOVAL PROCEDURES.
* IF ADDITIONAL SUSPECT MATERIALS ARE FOUND DURING DEMOLITION/RENOVATION, CONTRACTOR TO ASSUME THEY ARE ASBESTOS CONTAINING MATERIALS UNTIL PROPERLY INSPECTED AND TESTED. CONTRACTOR SHALL REVIEW COMPLETE ASBESTOS INSPECTION REPORT PRIOR TO WORK.

## Lead Paint Identification

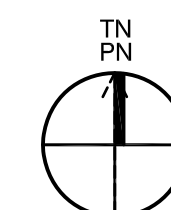
Material	Description	Location	Action Required
P-1 METAL PANELS	GRAY PAINT	EXTERIOR	REMOVE WHERE REQUIRED*
P-2 EXTERIOR WOOD	WHITE PAINT	EXTERIOR	REMOVE*
P-3 CONCRETE BASE	WHITE PAINT	INTERIOR BATHROOM	ENCAPSULATE*
P-4 PLASTER	GRAY PAINT	INTERIOR MECH ROOM	REMOVE*
P-5 INTERIOR WOOD	WHITE PAINT	INTERIORS	REMOVE*
P-6 CONCRETE FOUNDATIONS	WHITE PAINT	INTERIOR COLUMNS	ENCAPSULATE*
P-7 INTERIOR WOOD	GRAY PAINT	INTERIORS	REMOVE*

- \* SEE SPECIFICATIONS FOR ENCAPSULATION PROCEDURES.
- \* CONTRACTOR SHALL REVIEW COMPLETE LEAD INSPECTION REPORT PRIOR TO DEMOLITION.

\* NOTE: PREVIOUS ASBESTOS REPORT LOCATED IN THE MECHANICAL ROOM LABELS THE EXISTING FLOOR TILE IN THE HEADS AS ASBESTOS. CURRENT INSPECTIONS AND SAMPLE ANALYSIS RETURNED A NEGATIVE RESULT. CONTRACTOR SHALL ASSUME THE FLOOR TILE IS ASBESTOS AND REMOVE AS ASBESTOS CONTAINING MATERIAL. (APPROXIMATELY 650SF.)

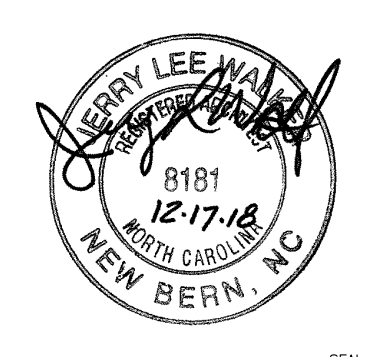
## LEAD & ASBESTOS LOCATION PLAN

SCALE:  $1/32" = 1'-0"$



$1/32" = 1'-0"$

$1/4" = 1'-0"$

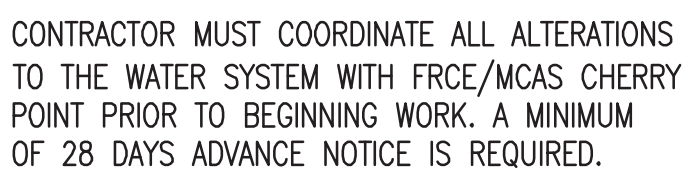


APPROVED		A/E INFO	
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO			
DES	<b>JLW</b>	DRW	<b>SAM</b>
CHK	<b>JLW</b>		

U.S. MARINE CORPS AIR STATION	CHERRY POINT, NORTH CAROLINA
BUILDING 155-RENOVATIONS AND IMPROVEMENTS	
MCAS-CHERRY POINT, NC	
LEAD & ASBESTOS LOCATION PLAN	

SCALE: <b>AS NOTED</b>	
PROJECT NO.:	<b>XH67399</b>
MAXIMO WORK ORDER NO. <b>6638499</b>	
NAVFAC DRAWING NO. <b>12782050</b>	
SHEET <b>4</b>	OF <b>103</b>
<b>H-101</b>	





A/E PROJECT #18011

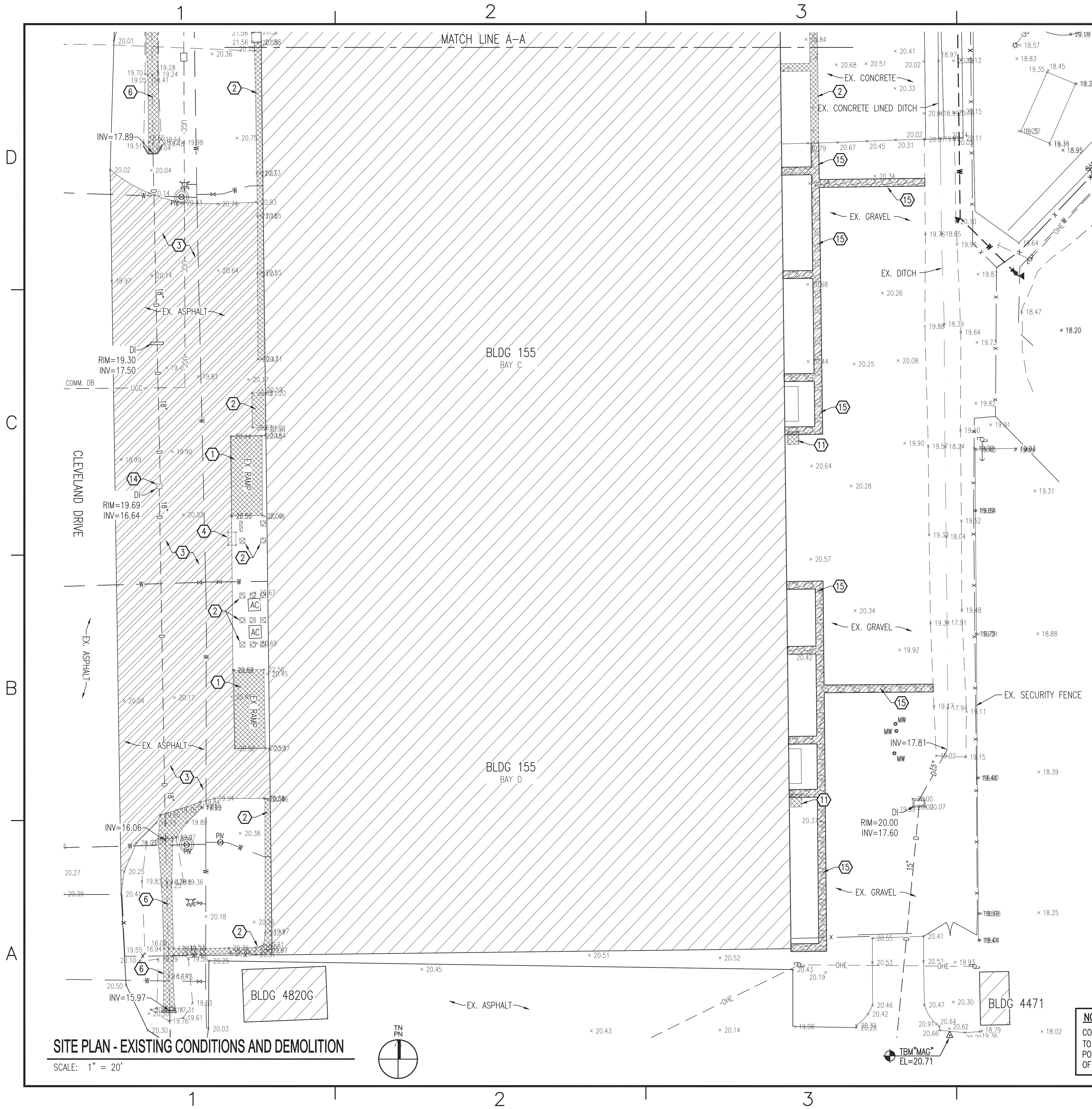
SCALE:	<b>AS NOTED</b>		
EPROJECT	NO.:		
MAXIMO WORK ORDER NO.	<b>6638499</b>		
NAVFAC DRAWING NO.	<b>12782051</b>		
SHEET	<b>5</b>	OF	<b>103</b>
<b>CD101</b>			
DRAWING REVISION: 10 MARCH 2009			

UNCLASSIFIED//FOR OFFICIAL USE ONLY

3

A





1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
2. PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.
3. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR MUST DEVELOP A TRAFFIC CONTROL PLAN TO BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.
4. COMPLETE ALL PIPE TRENCHING IN ACCORDANCE WITH DETAIL C3, SHEET CU501.

- ① REMOVE CONCRETE LOADING DOCK.
- ② REMOVE CONCRETE SLAB/PAVEMENT.
- ③ REMOVE ASPHALT AND STONE BASE TO SUBGRADE.
- ④ REMOVE BOLLARD. (SHEET CD102 ONLY)
- ⑤ RELOCATE AND ANCHOR SHED WITHIN 200 FEET OF EXISTING LOCATION. GOVERNMENT TO SPECIFY NEW LOCATION. (SHEET CD101 ONLY)
- ⑥ REMOVE CONCRETE DITCH LINING.
- ⑦ REMOVE CHAIN LINK SECURITY FENCE. (SHEET CD101 ONLY)
- ⑧ REMOVE OVERHEAD ELECTRIC SERVICE AND POLE. SEE ELECTRICAL PLANS FOR DETAILS OF DEMOLITION. (SHEET CD101 ONLY)
- ⑨ REMOVE 2" WATER SERVICE. CAP AT VALVE. (SHEET CD101 ONLY)
- ⑩ REMOVE EXISTING SEWER SERVICE. CAP AT MAIN. (SHEET CD101 ONLY)
- ⑪ REMOVE GRAVEL TO ACCOMMODATE NEW CONCRETE. (SHEET CD102 ONLY)
- ⑫ LEVEL 2 TEMPORARY SECURITY FENCING. INSTALL PRIOR TO EXISTING FENCE REMOVAL. (SHEET CD101 ONLY)
- ⑬ ASPHALT CUT AND PATCH, SEE DETAIL D3, SHEET CS501. (SHEET CD101 ONLY)
- ⑭ REMOVE BUILT-OVER DROP INLET. SAWCUT AND REMOVE EXISTING PIPE TO ACCOMMODATE NEW DROP INLET. (SHEET CD102 ONLY)
- ⑮ REMOVE GRAVEL (SHEET CD102 ONLY)

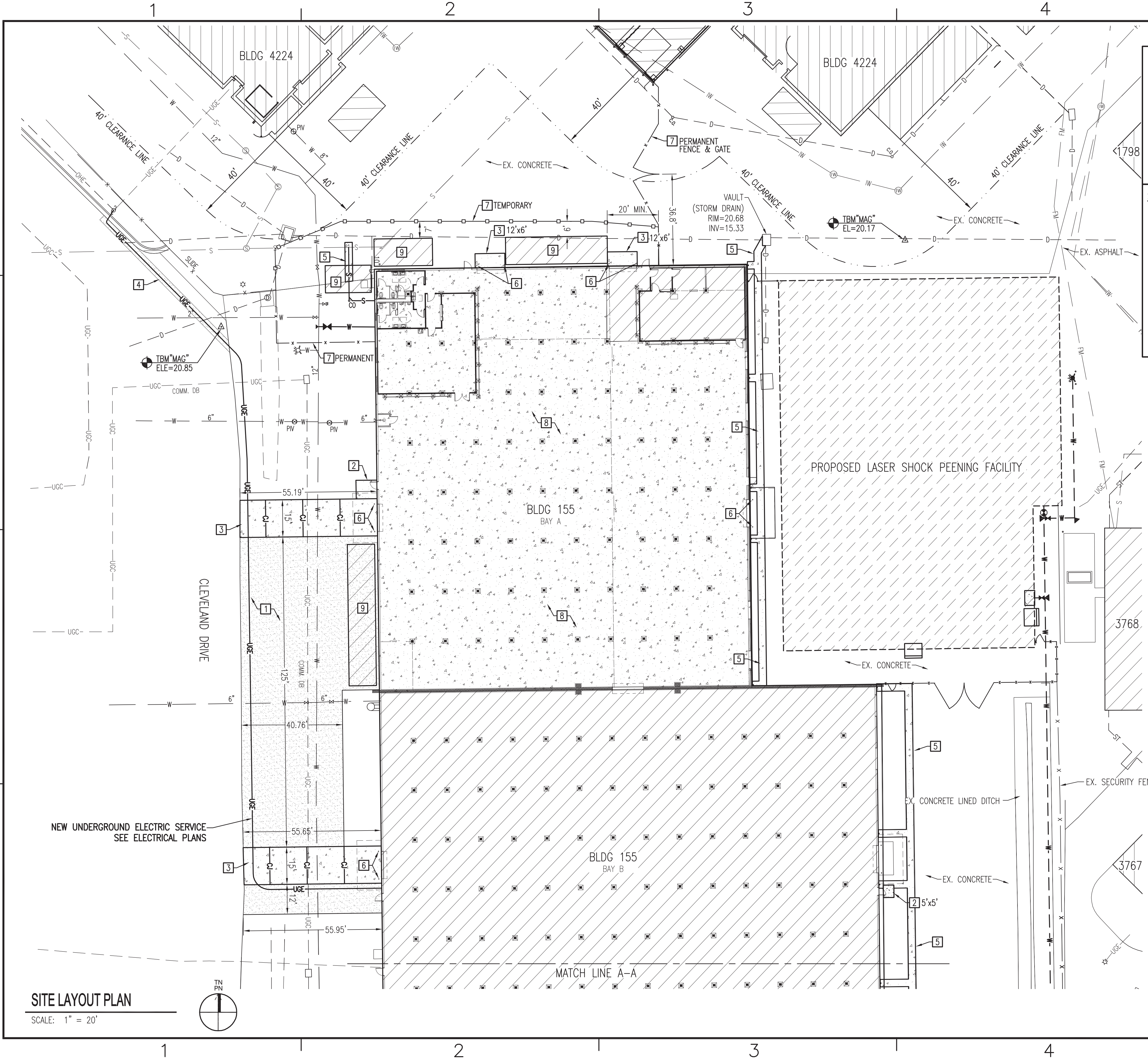
1. THIS PROJECT IS LOCATED WITHIN THE DEFINED LIMITS OF OPERABLE UNIT 1. THIS OPERABLE UNIT HAS A RECORD OF DECISION (ROD) THAT REQUIRES CERTAIN REPORTING ACTIONS BE COMPLETED IN ORDER TO BE IN COMPLIANCE WITH THE ROD. NO DEWATERING ACTIVITIES CAN OCCUR IN THESE AREAS WITHOUT PRIOR WRITTEN APPROVAL. SEE SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS".
2. IF EXCAVATED SOILS ARE SUSPECTED OF BEING CONTAMINATED, NOTIFY THE CONTRACTING OFFICER. SPECIFICATION SECTION 31 23 00.00 20 "EXCAVATION AND FILL" OUTLINES THE REQUIREMENTS FOR HANDLING SUSPECTED CONTAMINATED SOILS AND ALL FILL MATERIALS IMPORTED TO THE BASE.
3. ALL EXCESS SOILS GENERATED FROM CONSTRUCTION ACTIVITIES SHALL BE CONSIDERED CONTAMINATED AND SHALL BE TESTED AND DISPOSED OF IN ACCORDANCE WITH SPECIFICATION SECTION 31 23 00.00 20 "EXCAVATION AND FILL."
4. GROUNDWATER MONITORING WELLS ARE LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THESE WELLS MUST NOT BE DISTURBED IN ANY MANNER. REPORT DAMAGE TO ANY WELLS TO THE CONTRACTING OFFICER IMMEDIATELY.

**NOTE:**  
CONTRACTOR MUST COORDINATE ALL ALTERATIONS TO THE WATER SYSTEM WITH FRCE/MCAS CHERRY POINT PRIOR TO BEGINNING WORK. A MINIMUM OF 28 DAYS ADVANCE NOTICE IS REQUIRED.

[illegible][illegible]



FILE NAME: P:\18011\_Repairs & Improvements, Bldg 155 UGCS Cherry Point (Yellow)\SUBMITTAL FILES\1006 SUBMITTAL\100.dwg LAYOUT NAME: 12782053 PLOTTED: Monday, December 17, 2018 - 11:54am UNCLASSIFIED//FOR OFFICIAL USE ONLY



- GENERAL CONSTRUCTION NOTES:**
1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
  2. PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.
  3. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR MUST DEVELOP A TRAFFIC CONTROL PLAN TO BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.
  4. COMPLETE ALL PIPE TRENCHING IN ACCORDANCE WITH DETAIL C3, SHEET CU501.

- SITWORK KEYNOTES:**
- 1 ASPHALT PAVEMENT - SEE DETAIL A4, SHEET CS501.
  - 2 CONCRETE SIDEWALK - SEE DETAIL B4, SHEET CS501.
  - 3 CONCRETE APRON - SEE DETAIL C4, SHEET CS501.
  - 4 ASPHALT CUT AND PATCH - SEE DETAIL D3, SHEET CS501. (SHEET CS101 ONLY)
  - 5 CONCRETE CUT AND PATCH - SEE DETAIL B3, SHEET CS501.
  - 6 STEEL BOLLARD - SEE DETAIL A3, SHEET CS501.
  - 7 LEVEL 2 SECURITY FENCE - SEE DETAIL A3, SHEET CS502. (SHEET CS101 ONLY)
  - 8 PROVIDE CONCRETE FLOOR IN BAY AREA A, SEE STRUCTURAL PLANS. (SHEET CS101 ONLY)
  - 9 PROVIDE CANOPY, SEE STRUCTURAL PLANS. (SHEET CS101 ONLY)
  - 10 GRAVEL CUT AND PATCH - SEE DETAIL D2, SHEET CS501. (SHEET CS102 ONLY)

- SPECIAL ENVIRONMENTAL CONDITIONS APPLICABLE TO PROJECT:**
1. THIS PROJECT IS LOCATED WITHIN THE DEFINED LIMITS OF OPERABLE UNIT 1. THIS OPERABLE UNIT HAS A RECORD OF DECISION (ROD) THAT REQUIRES CERTAIN REPORTING ACTIONS BE COMPLETED IN ORDER TO BE IN COMPLIANCE WITH THE ROD. NO DEWATERING ACTIVITIES CAN OCCUR IN THESE AREAS WITHOUT PRIOR WRITTEN APPROVAL. SEE SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS".
  2. IF EXCAVATED SOILS ARE SUSPECTED OF BEING CONTAMINATED, NOTIFY THE CONTRACTING OFFICER. SPECIFICATION SECTION 31 23 00.00 20 "EXCAVATION AND FILL" OUTLINES THE REQUIREMENTS FOR HANDLING SUSPECTED CONTAMINATED SOILS AND ALL FILL MATERIALS IMPORTED TO THE BASE.
  3. ALL EXCESS SOILS GENERATED FROM CONSTRUCTION ACTIVITIES SHALL BE CONSIDERED CONTAMINATED AND SHALL BE TESTED AND DISPOSED OF IN ACCORDANCE WITH SPECIFICATION SECTION 31 23 00.00 20 "EXCAVATION AND FILL."
  4. GROUNDWATER MONITORING WELLS ARE LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THESE WELLS MUST NOT BE DISTURBED IN ANY MANNER. REPORT DAMAGE TO ANY WELLS TO THE CONTRACTING OFFICER IMMEDIATELY.

**GRAPHIC SCALE:**

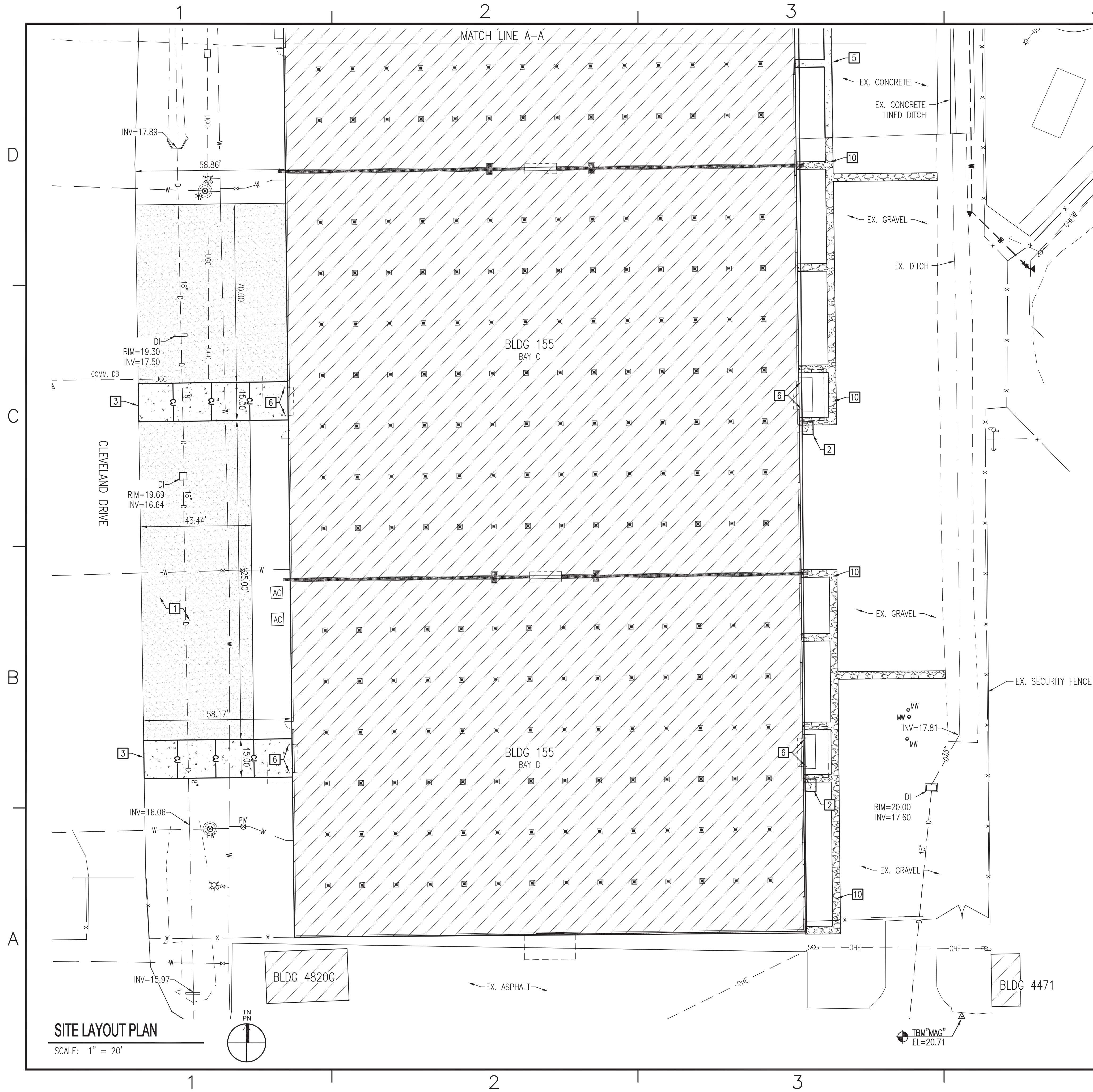
0 20' 40'

SCALE: 1" = 20'

A/E PROJECT #18011

APPROVED	DATE	APPR
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO	DATE	
DES JKA	DRW MSP	CHK JCA
PA/TM		
BRANCH MANAGER		
CHIEF ENG/ARCH		
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVAL STATION - NORFOLK VA CHERRY POINT, NORTH CAROLINA U.S. MARINE CORPS AIR STATION BUILDING 155-RENOVATIONS AND IMPROVEMENTS MCAS CHERRY POINT, NC		
SITE LAYOUT PLAN		
SCALE: AS NOTED		
E/PROJECT NO.:		
MAXIMO WORK ORDER NO. 6638499		
NAVFAC DRAWING NO. 12782053		
SHEET 7 OF 103		
CS101		
DRAWN/REVISED: 10 MARCH 2009		





1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
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4. COMPLETE ALL PIPE TRENCHING IN ACCORDANCE WITH DETAIL C3, SHEET C0501.

1	ASPHALT PAVEMENT - SEE DETAIL A4, SHEET CS501.
2	CONCRETE SIDEWALK - SEE DETAIL B4, SHEET CS501.
3	CONCRETE APRON - SEE DETAIL C4, SHEET CS501.
4	ASPHALT CUT AND PATCH - SEE DETAIL D3, SHEET CS501. (SHEET CS101 ONLY)
5	CONCRETE CUT AND PATCH - SEE DETAIL B3, SHEET CS501.
6	STEEL BOLLARD - SEE DETAIL A3, SHEET CS501.
7	LEVEL 2 SECURITY FENCE - SEE DETAIL A3, SHEET CS502. (SHEET CS101 ONLY)
8	PROVIDE CONCRETE FLOOR IN BAY AREA A, SEE STRUCTURAL PLANS. (SHEET CS101 ONLY)
9	PROVIDE CANOPY, SEE STRUCTURAL PLANS. (SHEET CS101 ONLY)
10	GRAVEL CUT AND PATCH - SEE DETAIL D2, SHEET CS501. (SHEET CS102 ONLY)

1. THIS PROJECT IS LOCATED WITHIN THE DEFINED LIMITS OF OPERABLE UNIT 1. THIS OPERABLE UNIT HAS A RECORD OF DECISION (ROD) THAT REQUIRES CERTAIN REPORTING ACTIONS BE COMPLETED IN ORDER TO BE IN COMPLIANCE WITH THE ROD. NO Dewatering ACTIVITIES CAN OCCUR IN THESE AREAS WITHOUT PRIOR WRITTEN APPROVAL. SEE SPECIFICATION SECTION 01 40 00 "WORK RESTRICTIONS".
2. IF EXCAVATED SOILS ARE SUSPECTED OF BEING CONTAMINATED, NOTIFY THE CONTRACTING OFFICER. SPECIFICATION SECTION 31 23 00.00 20 "EXCAVATION AND FILL" OUTLINES THE REQUIREMENTS FOR HANDLING SUSPECTED CONTAMINATED SOILS AND ALL FILL MATERIALS IMPORTED TO THE BASE.
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4. GROUNDWATER MONITORING WELLS ARE LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THESE WELLS MUST NOT BE DISTURBED IN ANY MANNER. REPORT DAMAGE TO ANY WELLS TO THE CONTRACTING OFFICER IMMEDIATELY.

0 20' 40'

SCALE: 1" = 20'

A/E PROJECT #18011

DRAWFORM REVISION: 10 MARCH 2009

Digitally signed by John K Avolis

SEAL  
15738  
12.17.18  
ENGINEER  
JOHN K. AVOLIS

SEAL

DESIGNED & ENGINEERED BY:



LICENSE NO. C-0706

**AVOLIS ENGINEERING, P.A.**

P.O. BOX 15564  
NEW BERN, NC 28561  
PH. (252) 633-0068

### ACTIVITY

DES	JKA	DRW	MSP	CHK	JCA
PM/DM					

CHIEF ENG/ARCH
FIRE PROTECTION

NORFOLK  
CAROL  
ENT

ATLANTA  
- STATION  
NORTH  
DOVE

D ~ M  
POINT  
IMP  
NC

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AYOU

SITTI

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55-F  
MC

11

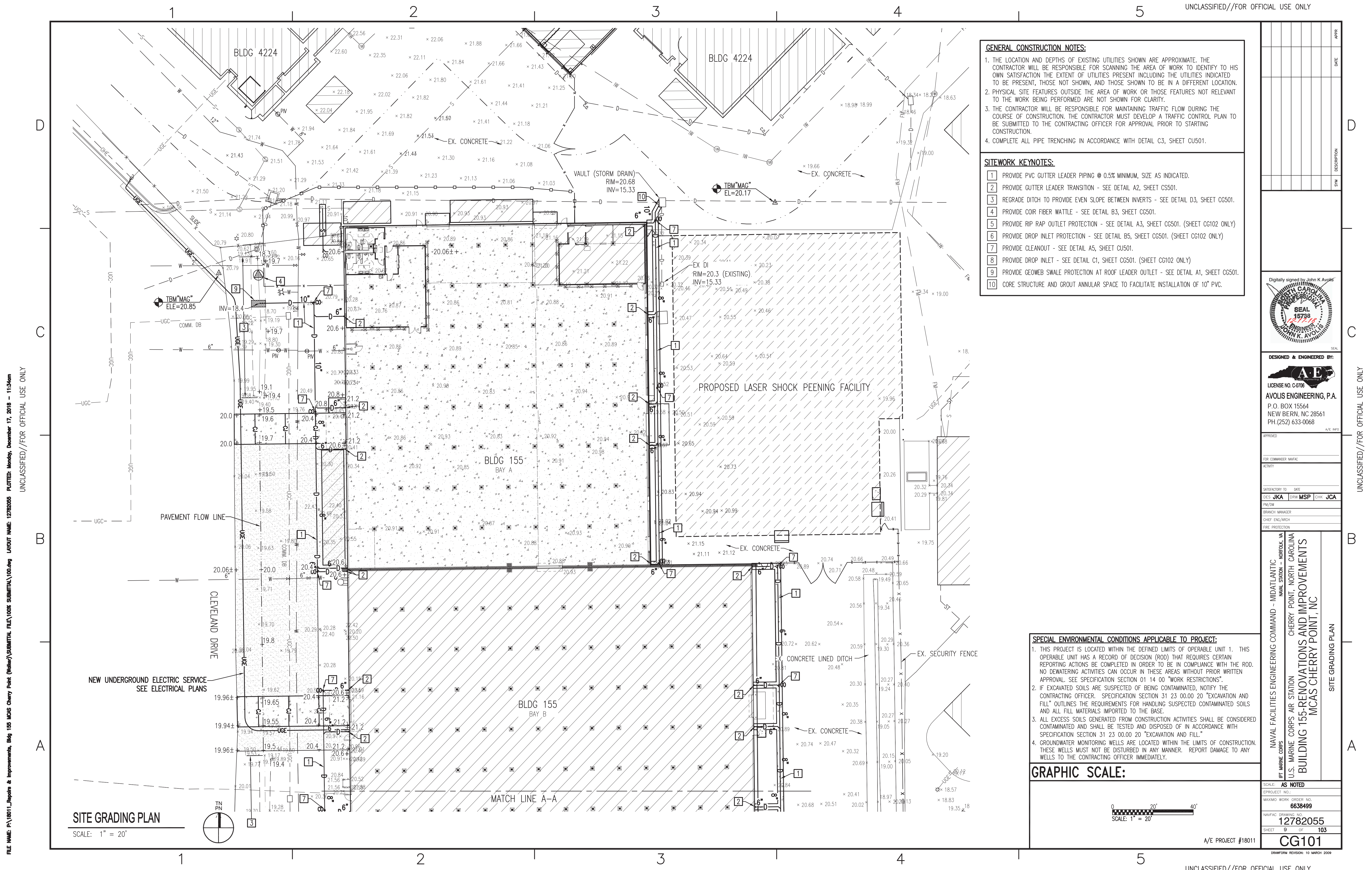
MARINE  
S. M.  
BUI

SCALE:	<b>AS NOTED</b>
EPROJECT NO.:	
MAXIMUM WORK ORDER NO.	

NAVFAC DRAWING NO.  
**12782054**

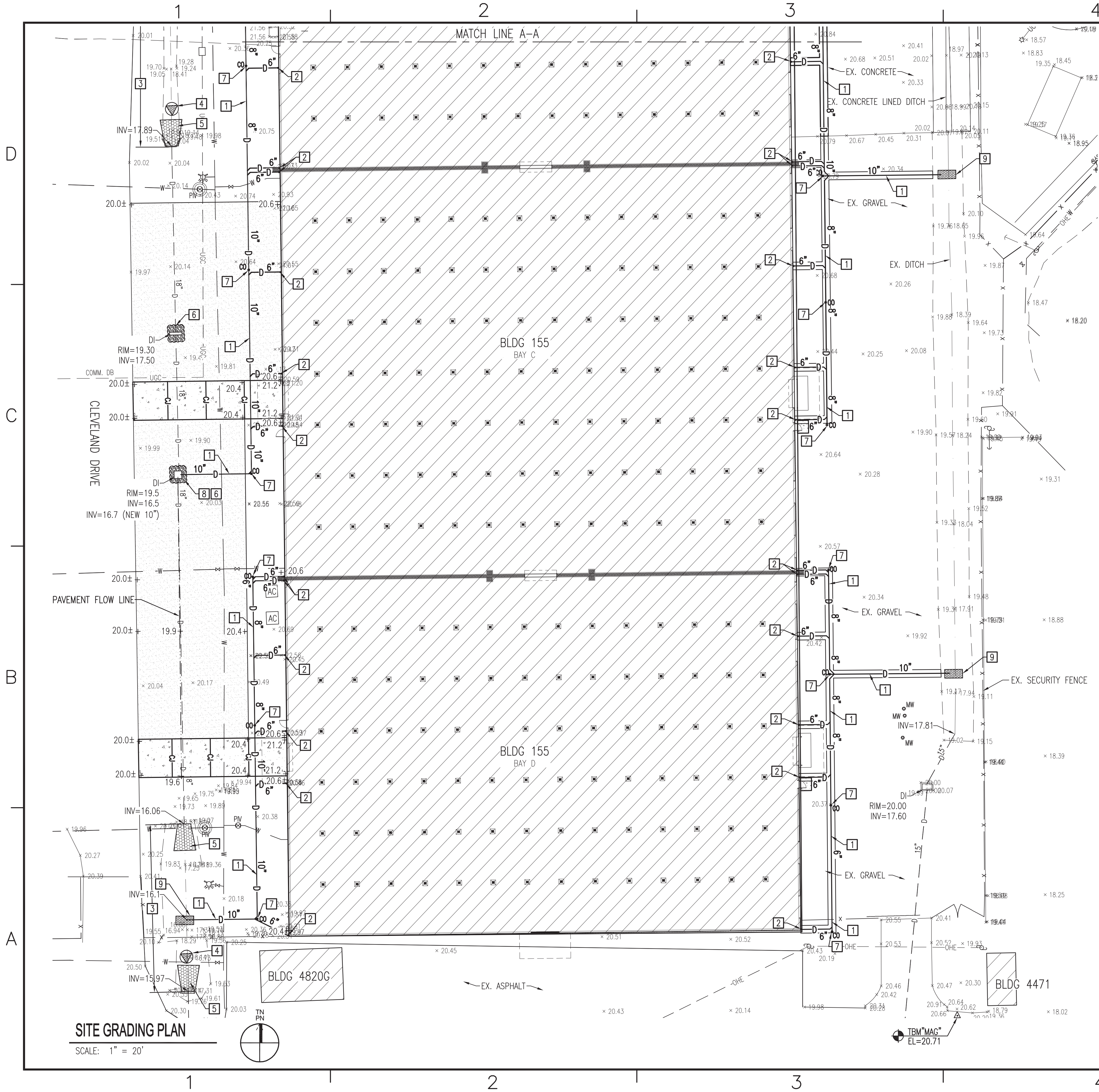
CS102







FILE NAME: P:\18011\_Repairs & Improvements, Bldg 155 MCAS Cherry Point (Yellow)\SUBMITTAL\1006 SUBMITTAL\1006.dwg LAYOUT NAME: 12782056 PLOTTED: Monday, December 17, 2018 - 11:34am  
UNCLASSIFIED//FOR OFFICIAL USE ONLY



SITE GRADING PLAN

SCALE: 1" = 20'

GENERAL CONSTRUCTION NOTES:

1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
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3. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR MUST DEVELOP A TRAFFIC CONTROL PLAN TO BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.
4. COMPLETE ALL PIPE TRENCHING IN ACCORDANCE WITH DETAIL C3, SHEET CU501.

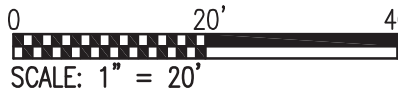
SITWORK KEYNOTES:

- 1 PROVIDE PVC GUTTER LEADER PIPING @ 0.5% MINIMUM, SIZE AS INDICATED.
- 2 PROVIDE GUTTER LEADER TRANSITION - SEE DETAIL A2, SHEET CS501.
- 3 REGRADE DITCH TO PROVIDE EVEN SLOPE BETWEEN INVERTS - SEE DETAIL D3, SHEET CG501.
- 4 PROVIDE COIR FIBER WATTLE - SEE DETAIL B3, SHEET CG501.
- 5 PROVIDE RIP RAP OUTLET PROTECTION - SEE DETAIL A3, SHEET CG501. (SHEET CG102 ONLY)
- 6 PROVIDE DROP INLET PROTECTION - SEE DETAIL B5, SHEET CG501. (SHEET CG102 ONLY)
- 7 PROVIDE CLEANOUT - SEE DETAIL A5, SHEET CU501.
- 8 PROVIDE DROP INLET - SEE DETAIL C1, SHEET CG501. (SHEET CG102 ONLY)
- 9 PROVIDE GEOWEB SWALE PROTECTION AT ROOF LEADER OUTLET - SEE DETAIL A1, SHEET CG501.

SPECIAL ENVIRONMENTAL CONDITIONS APPLICABLE TO PROJECT:

1. THIS PROJECT IS LOCATED WITHIN THE DEFINED LIMITS OF OPERABLE UNIT 1. THIS OPERABLE UNIT HAS A RECORD OF DECISION (ROD) THAT REQUIRES CERTAIN REPORTING ACTIONS BE COMPLETED IN ORDER TO BE IN COMPLIANCE WITH THE ROD. NO DEWATERING ACTIVITIES CAN OCCUR IN THESE AREAS WITHOUT PRIOR WRITTEN APPROVAL. SEE SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS".
2. IF EXCAVATED SOILS ARE SUSPECTED OF BEING CONTAMINATED, NOTIFY THE CONTRACTING OFFICER. SPECIFICATION SECTION 31 23 00.00 20 "EXCAVATION AND FILL" OUTLINES THE REQUIREMENTS FOR HANDLING SUSPECTED CONTAMINATED SOILS AND ALL FILL MATERIALS IMPORTED TO THE BASE.
3. ALL EXCESS SOILS GENERATED FROM CONSTRUCTION ACTIVITIES SHALL BE CONSIDERED CONTAMINATED AND SHALL BE TESTED AND DISPOSED OF IN ACCORDANCE WITH SPECIFICATION SECTION 31 23 00.00 20 "EXCAVATION AND FILL."
4. GROUNDWATER MONITORING WELLS ARE LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THESE WELLS MUST NOT BE DISTURBED IN ANY MANNER. REPORT DAMAGE TO ANY WELLS TO THE CONTRACTING OFFICER IMMEDIATELY.

GRAPHIC SCALE:



A/E PROJECT #18011

DATE	APPR
SYN	DESCRIPTION



DESIGNED & ENGINEERED BY:

**AE**  
LICENSE NO. C-0706  
AVOLIS ENGINEERING, P.A.  
P.O. BOX 15564  
NEW BERN, NC 28561  
PH. (252) 633-0068  
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES JKA DRW MSP CHK JCA

PA/DM

BRANCH MANAGER

CHIEF ENG/ARCH

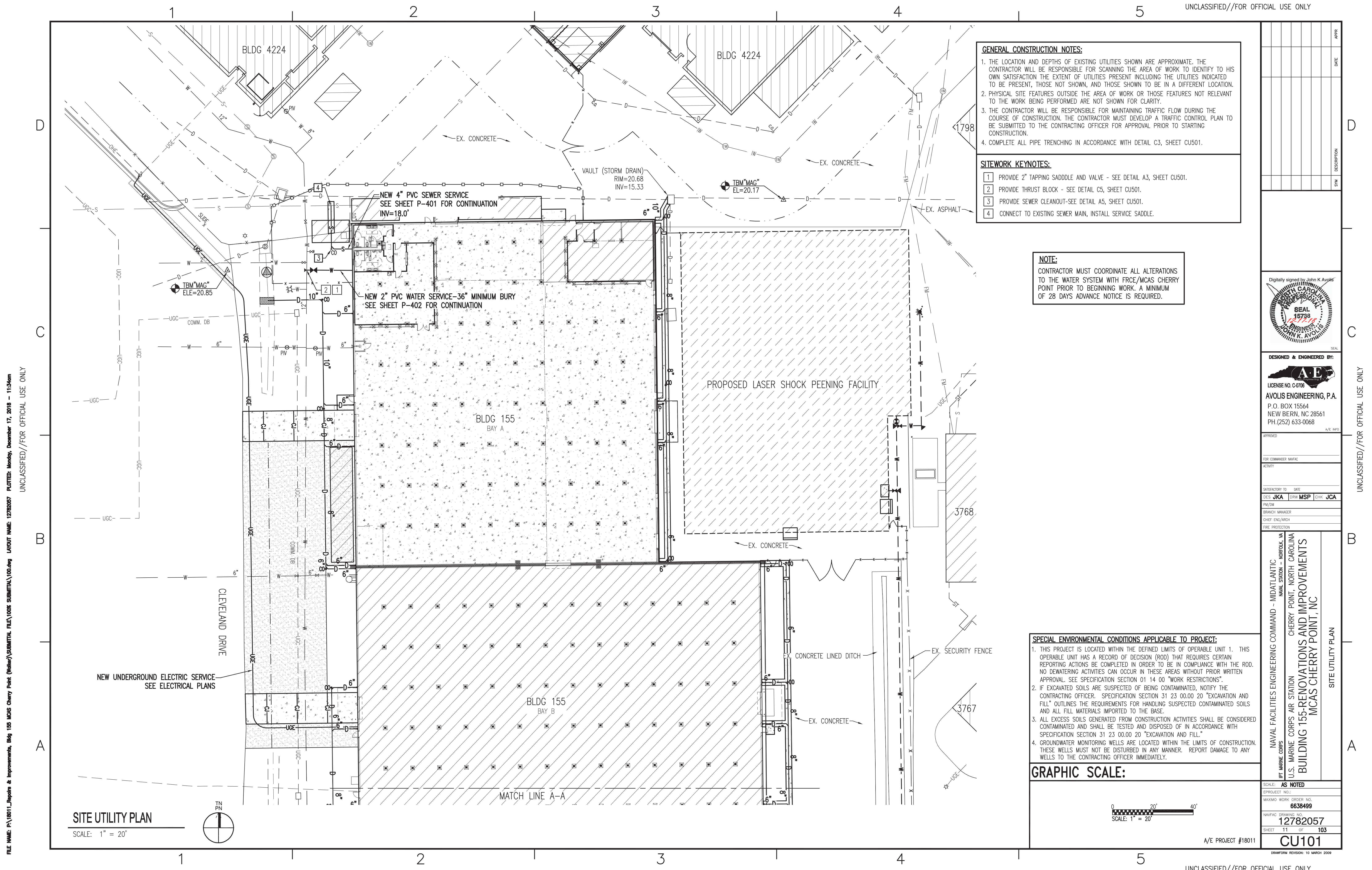
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION - NORFOLK, VA  
U.S. MARINE CORPS AIR STATION  
CHERRY POINT, NORTH CAROLINA  
BUILDING 155-RENOVATIONS AND IMPROVEMENTS  
MCAS CHERRY POINT, NC  
SITE GRADING PLAN

SCALE: AS NOTED
PROJECT NO.:
MAXIMO WORK ORDER NO. 6638499
NAVFAC DRAWING NO. 12782056
SHEET 10 OF 103
CG102

DRAWING REVISION: 10 MARCH 2009





**GENERAL CONSTRUCTION NOTES:**

1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
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4. COMPLETE ALL PIPE TRENCHING IN ACCORDANCE WITH DETAIL C3, SHEET CU501.

**SITWORK KEYNOTES:**

- 1 PROVIDE 2" TAPPING SADDLE AND VALVE - SEE DETAIL A3, SHEET CU501.
- 2 PROVIDE THRUST BLOCK - SEE DETAIL C5, SHEET CU501.
- 3 PROVIDE SEWER CLEANOUT-SEE DETAIL A5, SHEET CU501.
- 4 CONNECT TO EXISTING SEWER MAIN, INSTALL SERVICE SADDLE.

**NOTE:**  
CONTRACTOR MUST COORDINATE ALL ALTERATIONS TO THE WATER SYSTEM WITH FRCE/MCAS CHERRY POINT PRIOR TO BEGINNING WORK. A MINIMUM OF 28 DAYS ADVANCE NOTICE IS REQUIRED.

**SPECIAL ENVIRONMENTAL CONDITIONS APPLICABLE TO PROJECT:**

1. THIS PROJECT IS LOCATED WITHIN THE DEFINED LIMITS OF OPERABLE UNIT 1. THIS OPERABLE UNIT HAS A RECORD OF DECISION (ROD) THAT REQUIRES CERTAIN REPORTING ACTIONS BE COMPLETED IN ORDER TO BE IN COMPLIANCE WITH THE ROD. NO DEWATERING ACTIVITIES CAN OCCUR IN THESE AREAS WITHOUT PRIOR WRITTEN APPROVAL. SEE SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS".
2. IF EXCAVATED SOILS ARE SUSPECTED OF BEING CONTAMINATED, NOTIFY THE CONTRACTING OFFICER. SPECIFICATION SECTION 31 23 00.00 20 "EXCAVATION AND FILL" OUTLINES THE REQUIREMENTS FOR HANDLING SUSPECTED CONTAMINATED SOILS AND ALL FILL MATERIALS IMPORTED TO THE BASE.
3. ALL EXCESS SOILS GENERATED FROM CONSTRUCTION ACTIVITIES SHALL BE CONSIDERED CONTAMINATED AND SHALL BE TESTED AND DISPOSED OF IN ACCORDANCE WITH SPECIFICATION SECTION 31 23 00.00 20 "EXCAVATION AND FILL."
4. GROUNDWATER MONITORING WELLS ARE LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THESE WELLS MUST NOT BE DISTURBED IN ANY MANNER. REPORT DAMAGE TO ANY WELLS TO THE CONTRACTING OFFICER IMMEDIATELY.

**GRAPHIC SCALE:**

0 20' 40'

SCALE: 1" = 20'

A/E PROJECT #18011

Digitally signed by John K. Avolis

SEAL 15778

DESIGNED & ENGINEERED BY:

**AE**

LICENSE NO. C0706

AVOLIS ENGINEERING, P.A.

P.O. BOX 15564

NEW BERN, NC 28561

PH.(252) 633-0068

NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC

NAVAL STATION - NORFOLK, VA

CHERRY POINT, NORTH CAROLINA

U.S. MARINE CORPS AIR STATION

BUILDING 155-RENOVATIONS AND IMPROVEMENTS

MCAS CHERRY POINT, NC

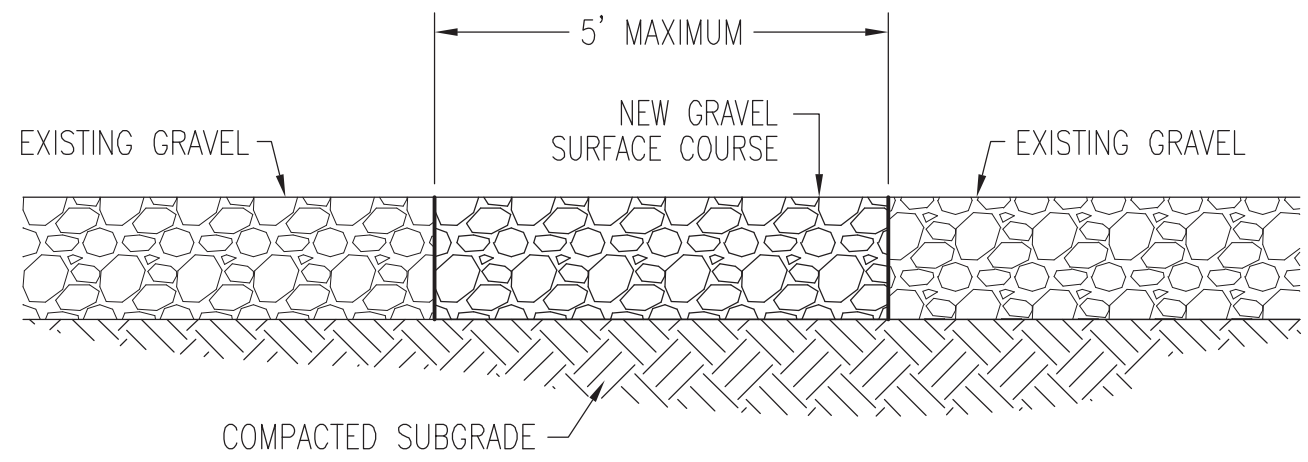
SITE UTILITY PLAN

SCALE:	AS NOTED
PROJECT NO.:	
MAXIMO WORK ORDER NO.	6638499
NAVFAC DRAWING NO.	12782057
SHEET	11 OF 103
	CU101

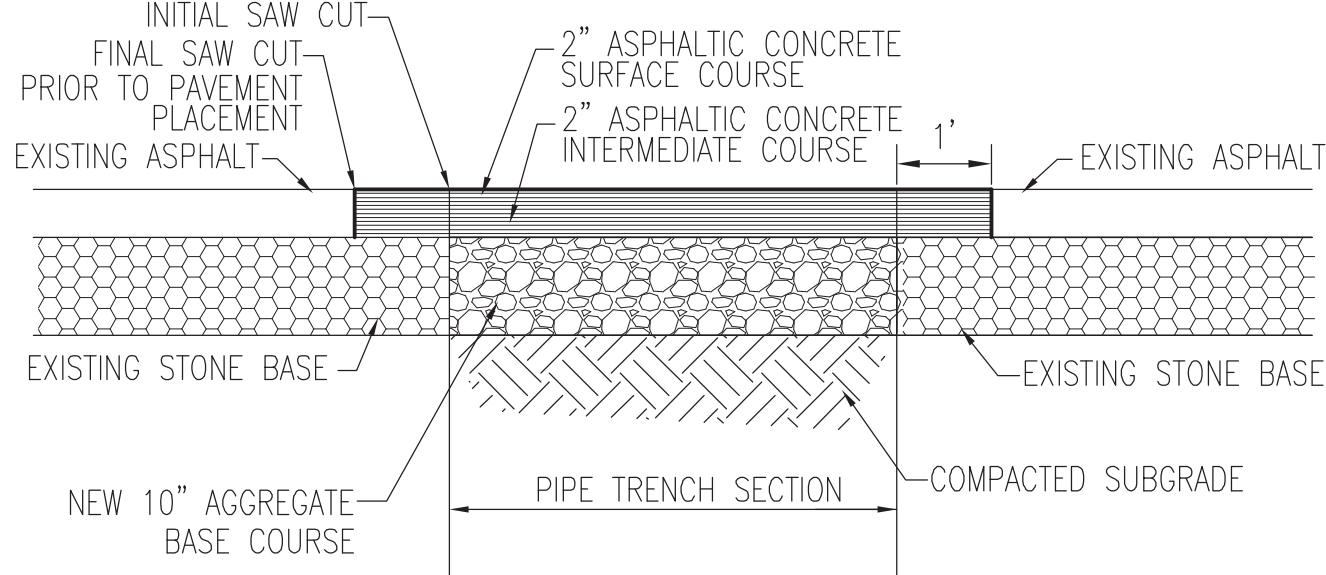


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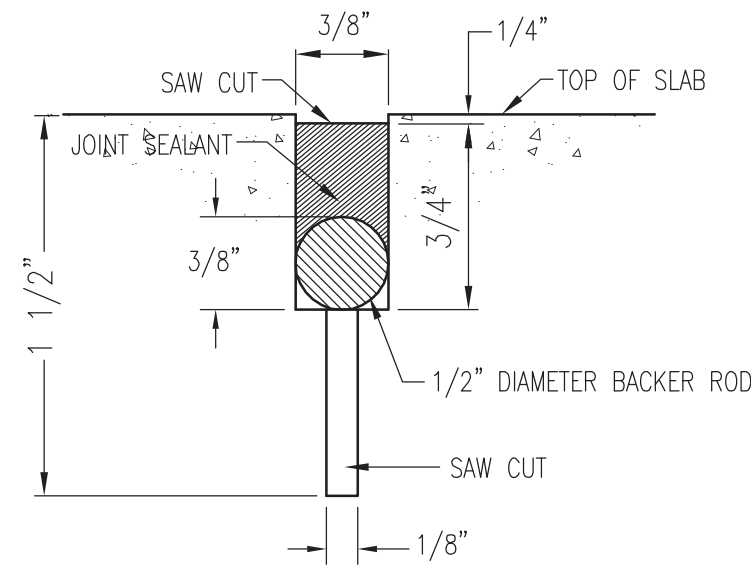
UNCLASSIFIED//FOR OFFICIAL USE ONLY



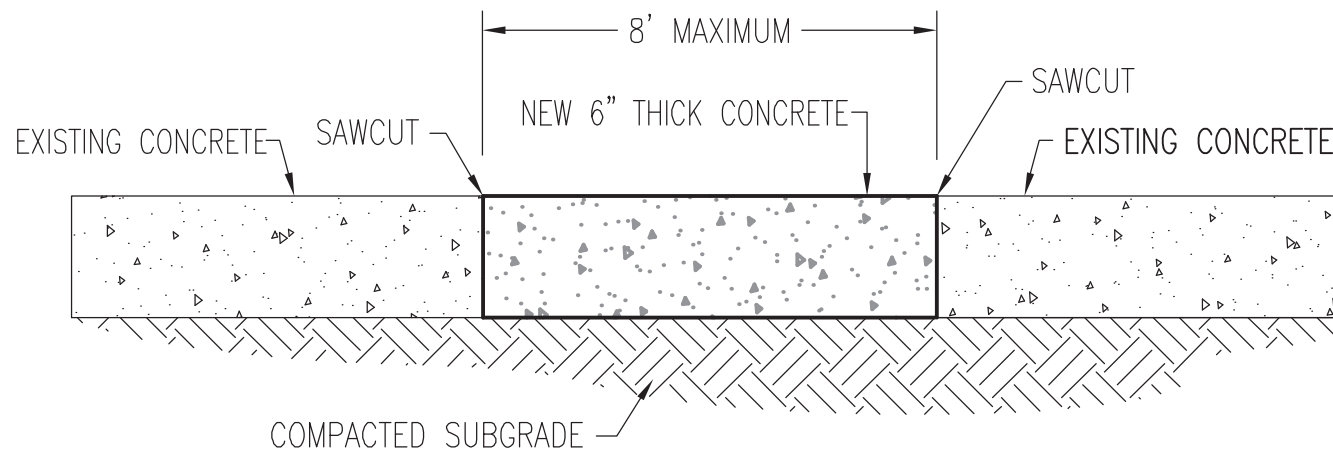
**D2** GRAVEL CUT AND PATCH  
SCALE: NTS



**D3** ASPHALT CUT AND PATCH  
SCALE: NTS

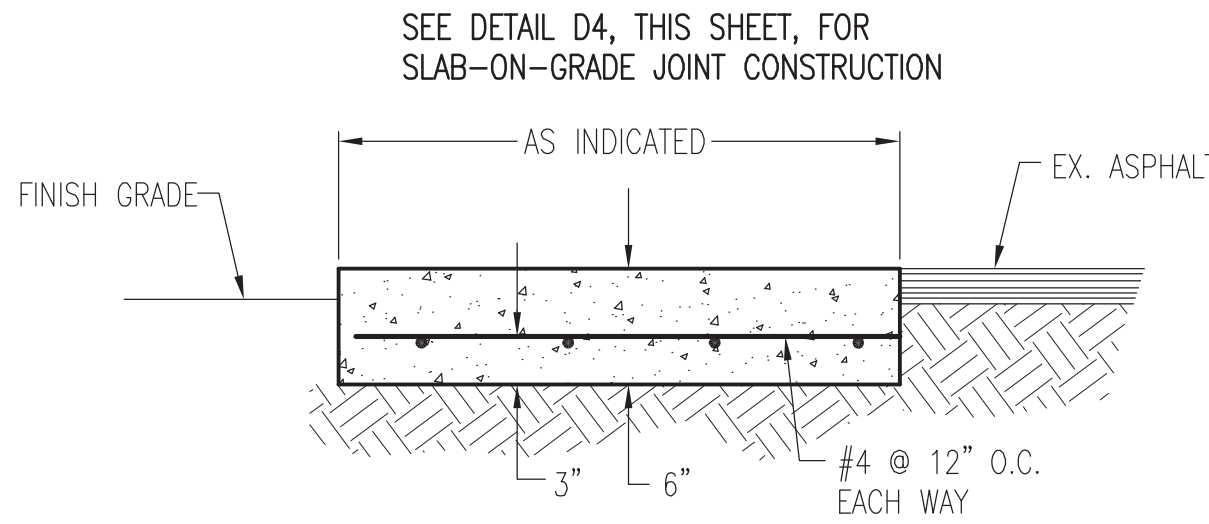


**D4** SLAB-ON-GRADE JOINT  
SCALE: NTS

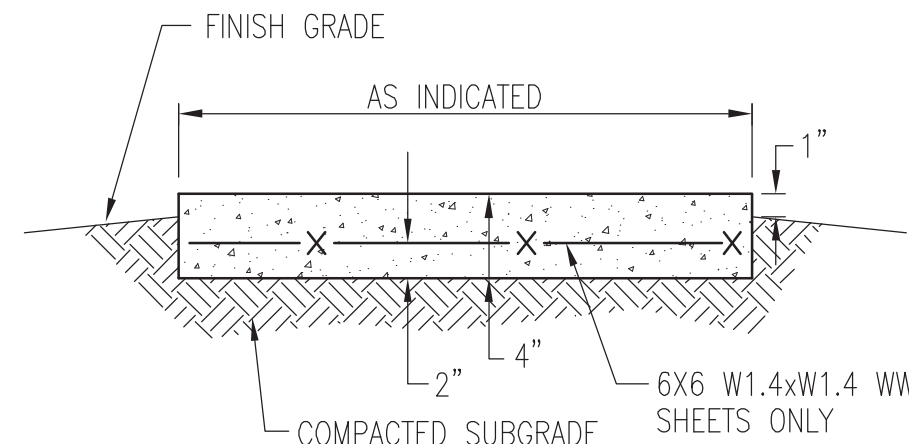


NOTE: REMOVE CONCRETE AT JOINTS WHEN JOINTS ARE LOCATED WITHIN 5 FEET OF AREA OF WORK. CONCRETE FINISH & JOINT PATTERN TO MATCH EXISTING.

**B3** CONCRETE CUT AND PATCH  
SCALE: NTS

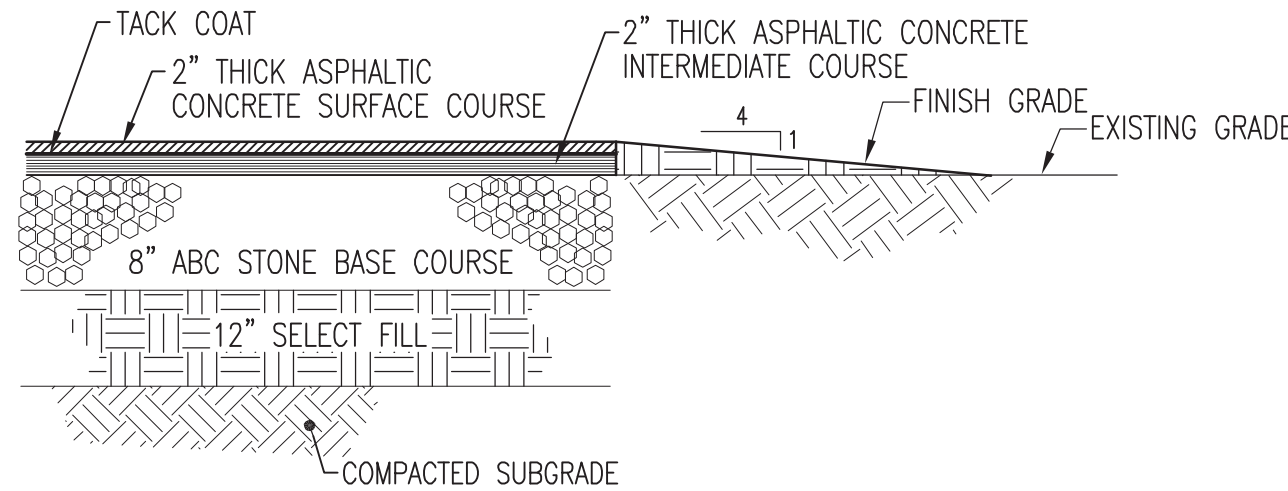


**C4** CONCRETE APRON  
SCALE: NTS

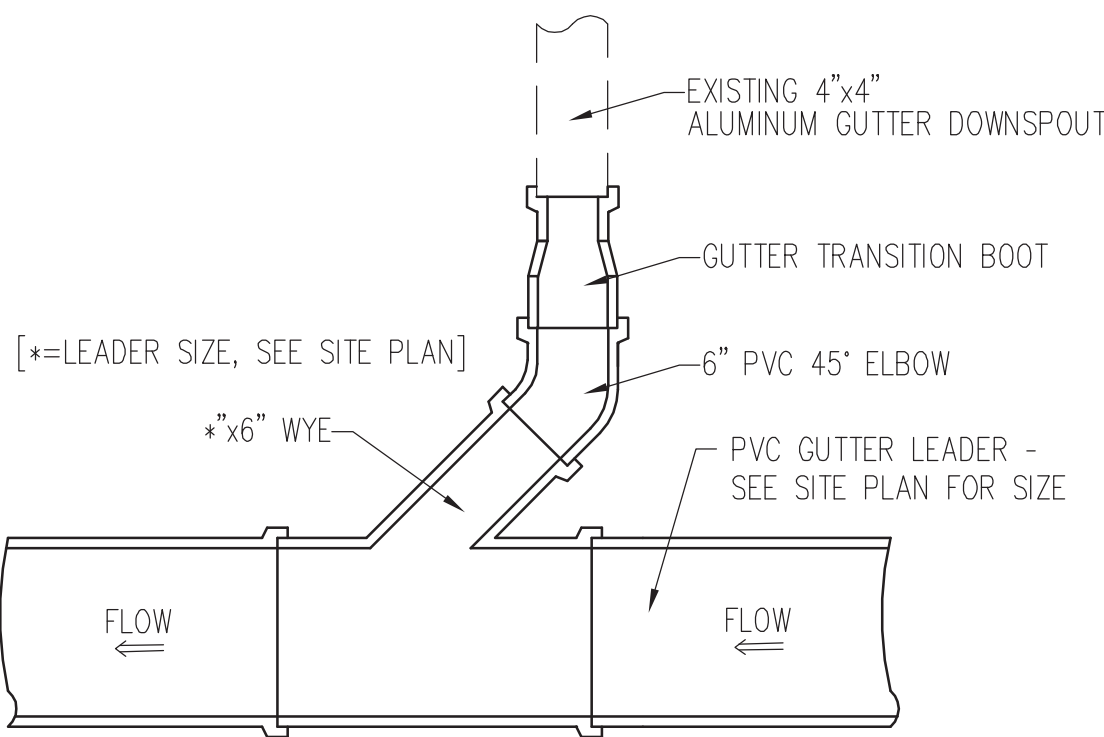


NOTES:  
1. PROVIDE EXPANSION JOINTS ALONG ALL EXISTING STRUCTURES AND WALKS AND AT 50' INTERVALS ALONG STRAIGHT SECTIONS OF WALK.  
2. PROVIDE CONTRACTION JOINTS AT 5'-0" INTERVALS AND AT ALL CHANGES IN DIRECTION OF WALK. CONTRACTION JOINTS MUST BE 1/8" WIDE X 3/4" DEEP.

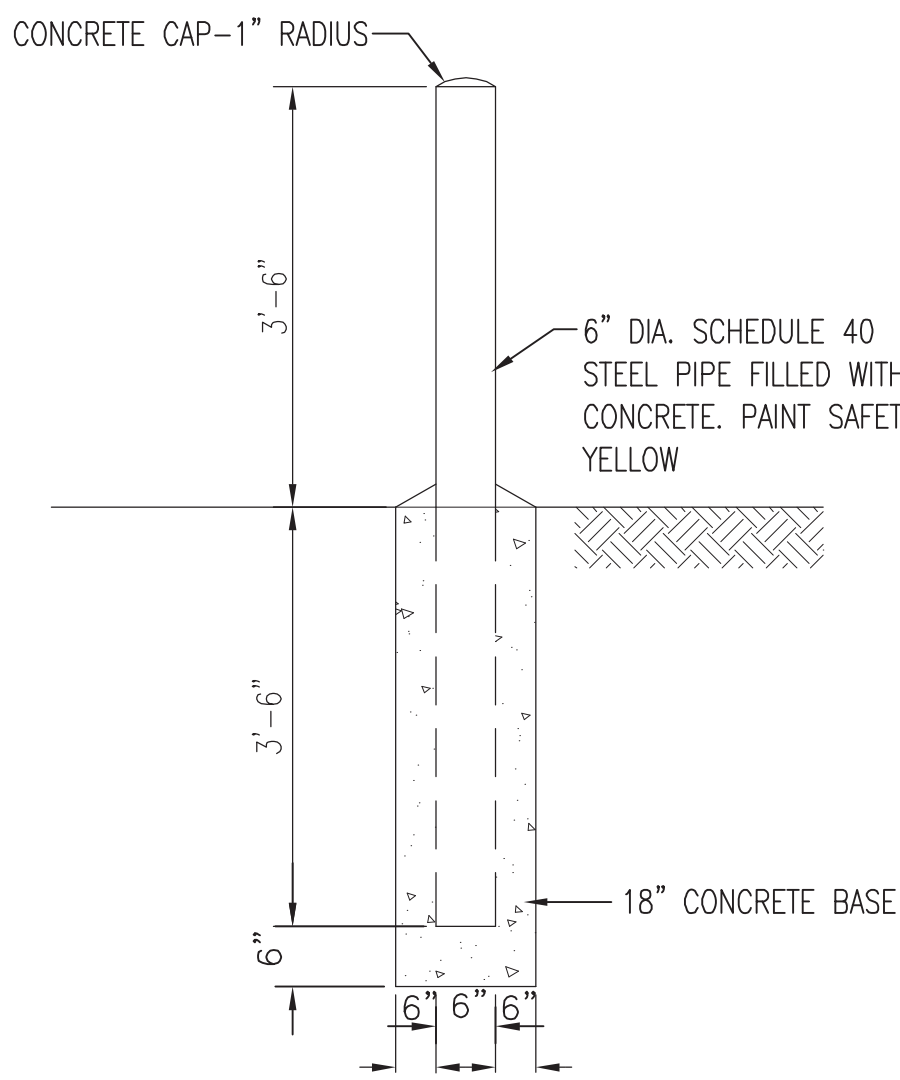
**B4** CONCRETE SIDEWALK  
SCALE: NTS



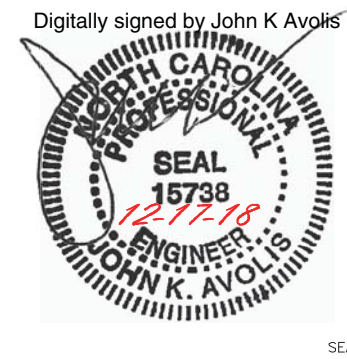
**A4** ASPHALT PAVEMENT SECTION  
SCALE: NTS



**A2** GUTTER LEADER TRANSITION  
SCALE: NTS



**A3** STEEL BOLLARD  
SCALE: NTS



DESIGNED & ENGINEERED BY:  
**AE**  
LICENSE NO. C-0708  
AVOLIS ENGINEERING, P.A.  
P.O. BOX 15564  
NEW BERN, NC 28561  
PH. (252) 633-0068  
A/E INFO

APPROVED  
FOR COMMANDER NAVFAC  
ACTIVITY  
SATISFACTORY TO DATE  
DES JKA DRW MSP CHK JCA  
PM/TM  
BRANCH MANAGER  
CHIEF ENG/ARCH  
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION - NORFOLK, VA  
CHERRY POINT, NORTH CAROLINA  
BUILDING 155-RENOVATIONS AND IMPROVEMENTS  
MCAS CHERRY POINT, NC  
DETAILS

SCALE: AS NOTED  
PROJECT NO.:  
MAXIMO WORK ORDER NO.: 6638499  
NAVFAC DRAWING NO.: 12782058  
SHEET 12 OF 103  
CS501

A/E PROJECT #18011

DRAWING REVISION: 10 MARCH 2009

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GATE

## HIGH SECURITY CHAIN LINK FENCE & GATE

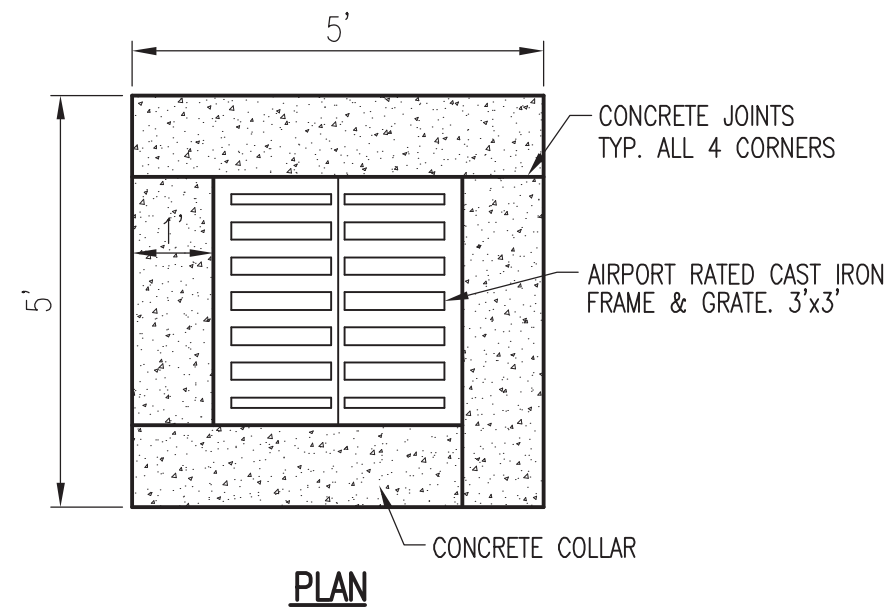
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SALE:	<b>AS NOTED</b>		
PROJECT NO.:			
AXIMO WORK ORDER NO.	<b>6638499</b>		
AVFAC DRAWING NO.	<b>12782059</b>		
SHEET	<b>13</b>	OF	<b>103</b>
<b>CS502</b>			

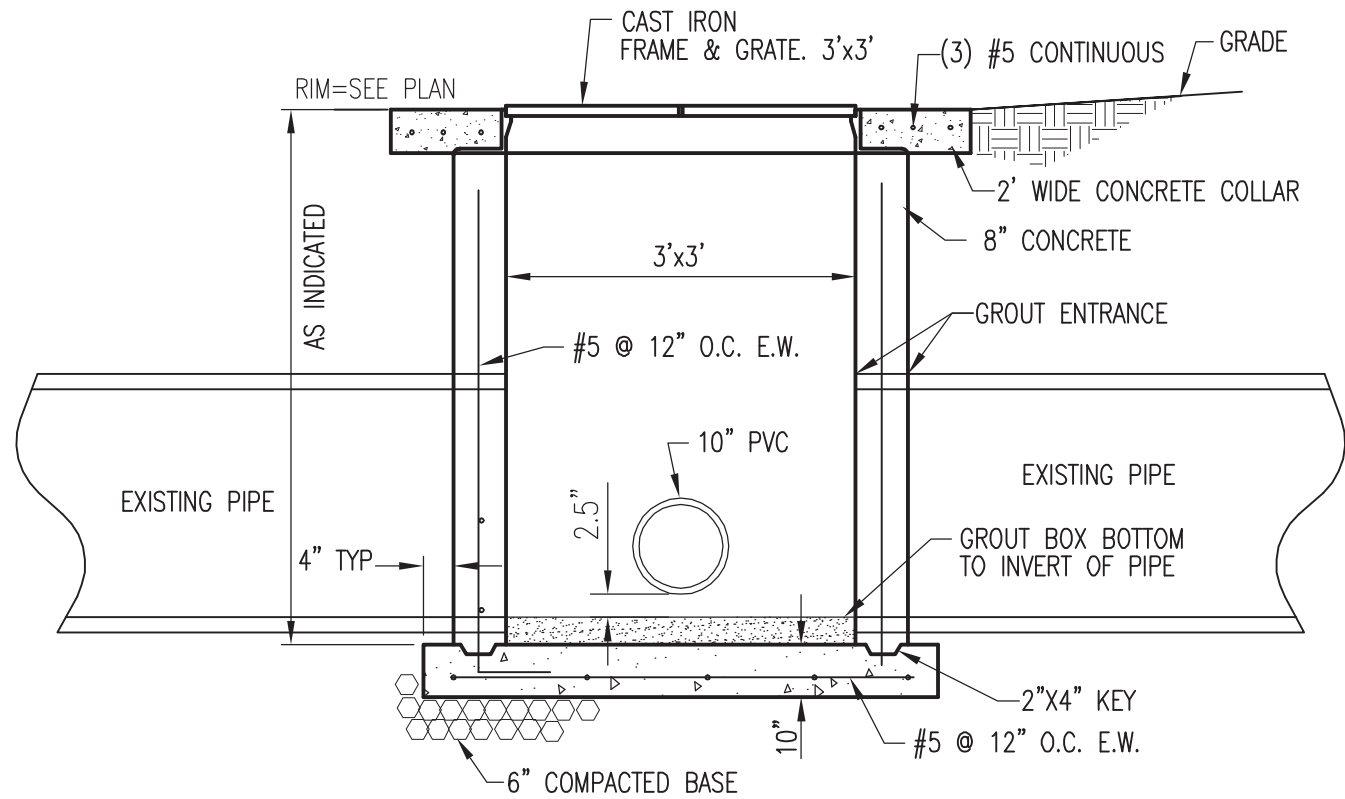
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FILE NAME: P:\1801\_Repairs & Improvements, Bldg 155 MCAS Cherry Point (Navy)\SUBMITTAL FILES\1006 SUBMITTAL\100.dwg LAYOUT NAME: 12782000 PLOTTED: Monday, December 17, 2018 - 11:35am UNCLASSIFIED//FOR OFFICIAL USE ONLY



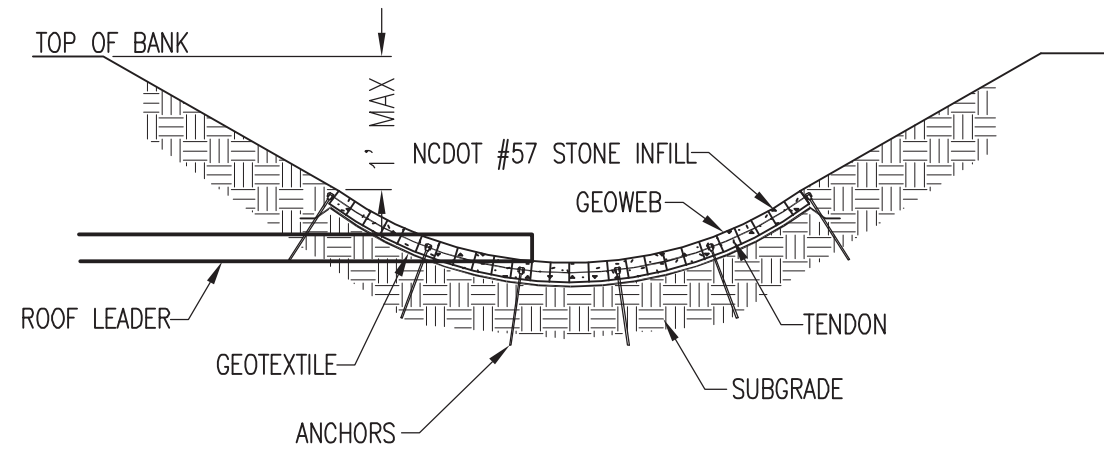
PLAN



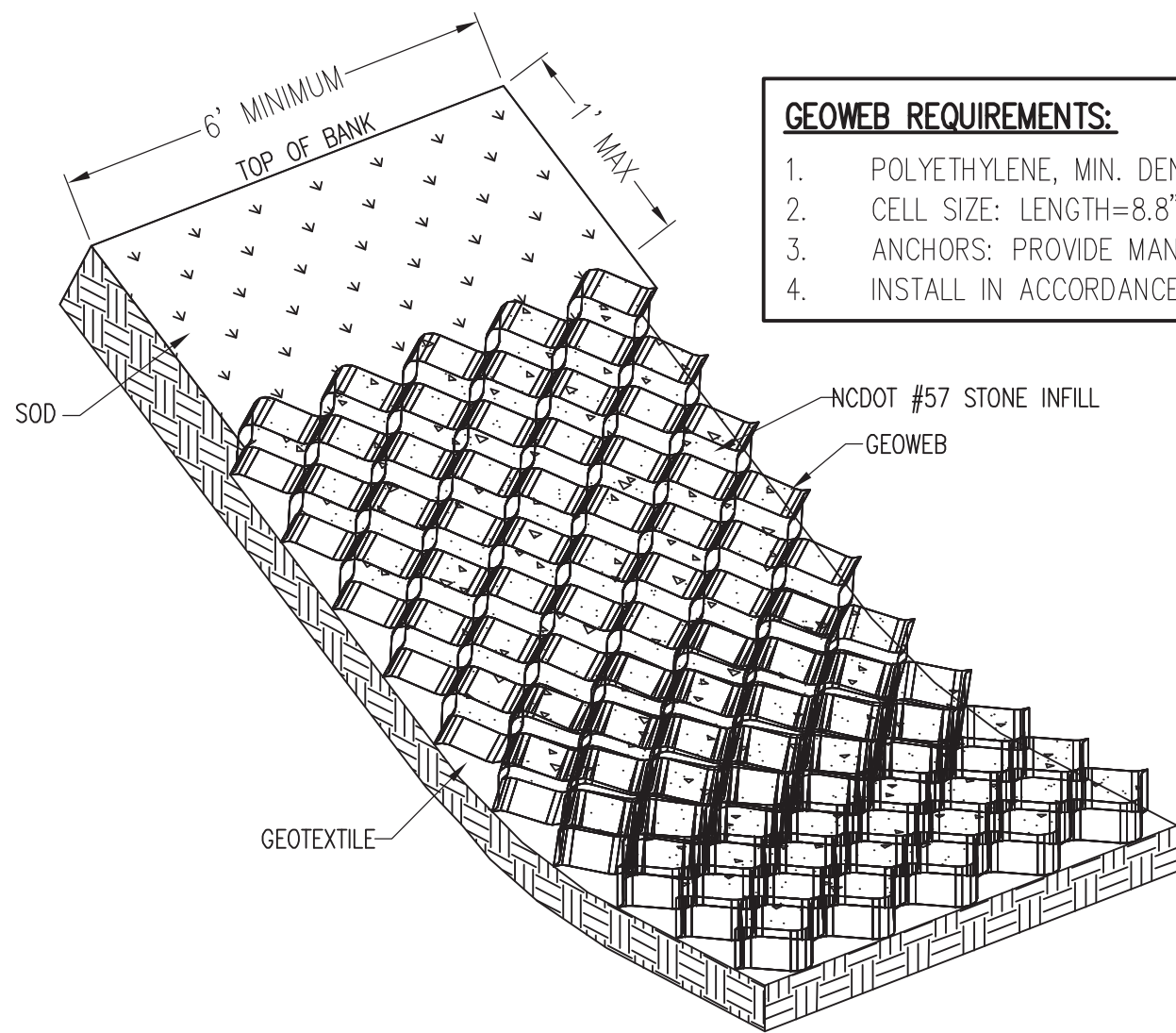
SECTION

### C1 DROP INLET

SCALE: NTS



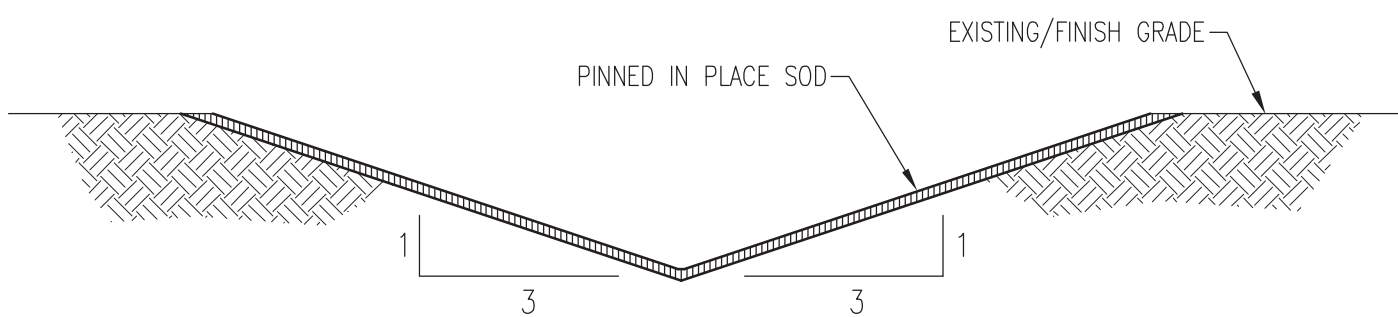
SECTION



PARTIAL ISOMETRIC

### A1 SWALE PROTECTION AT ROOF LEADER OUTLET

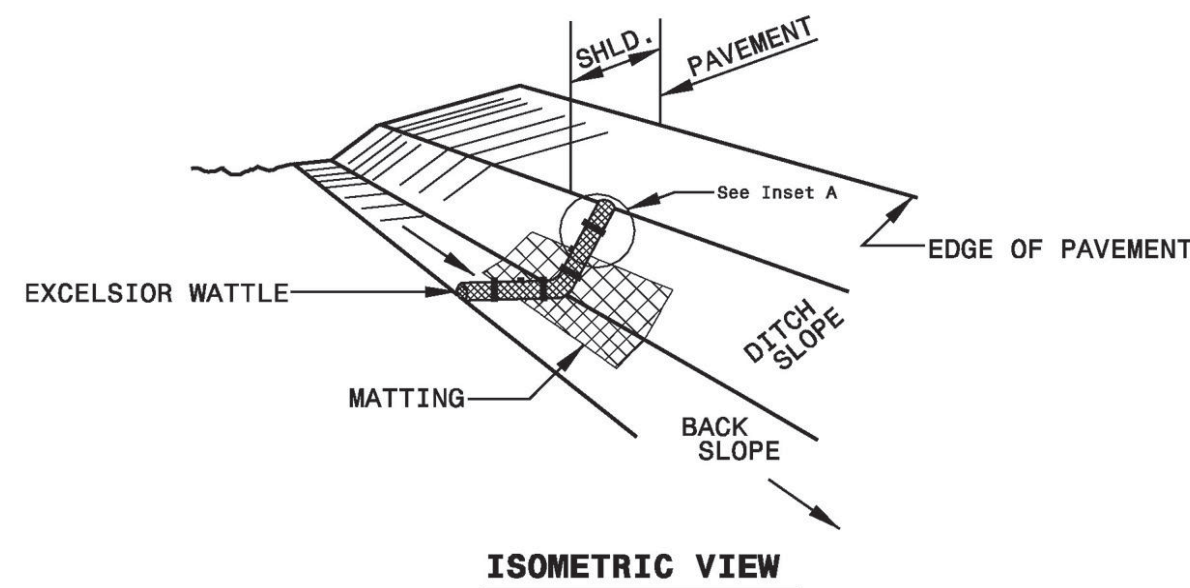
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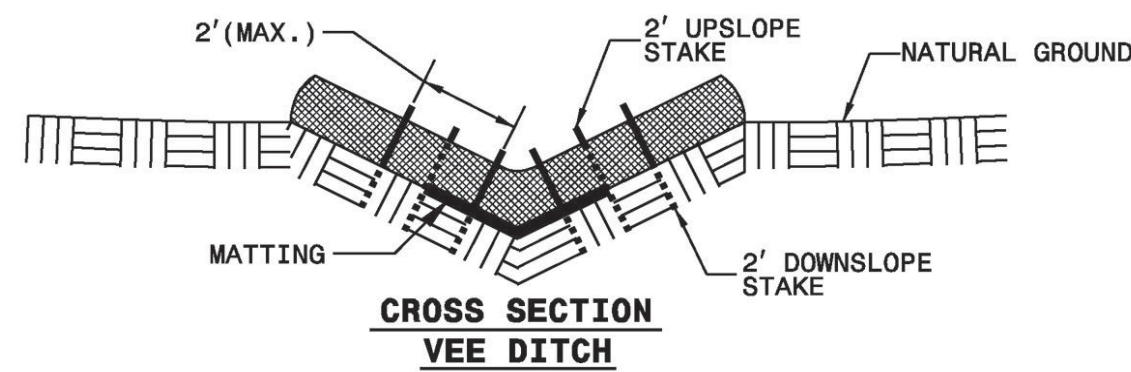
NOTE:  
1. THE CENTIPEDE SOD MUST BE INSTALLED IMMEDIATELY AFTER THE COMPLETION OF SWALE GRADING ACTIVITIES.

### D3 VEGETATED SWALE

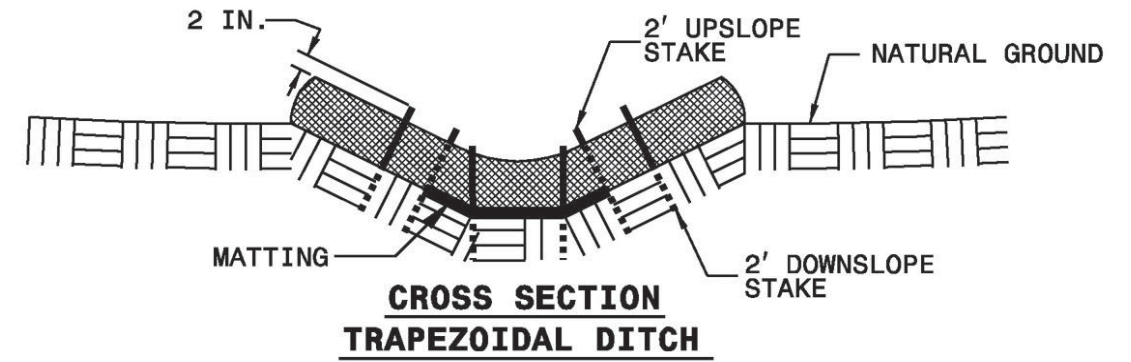
SCALE: NTS



ISOMETRIC VIEW



CROSS SECTION VEE DITCH

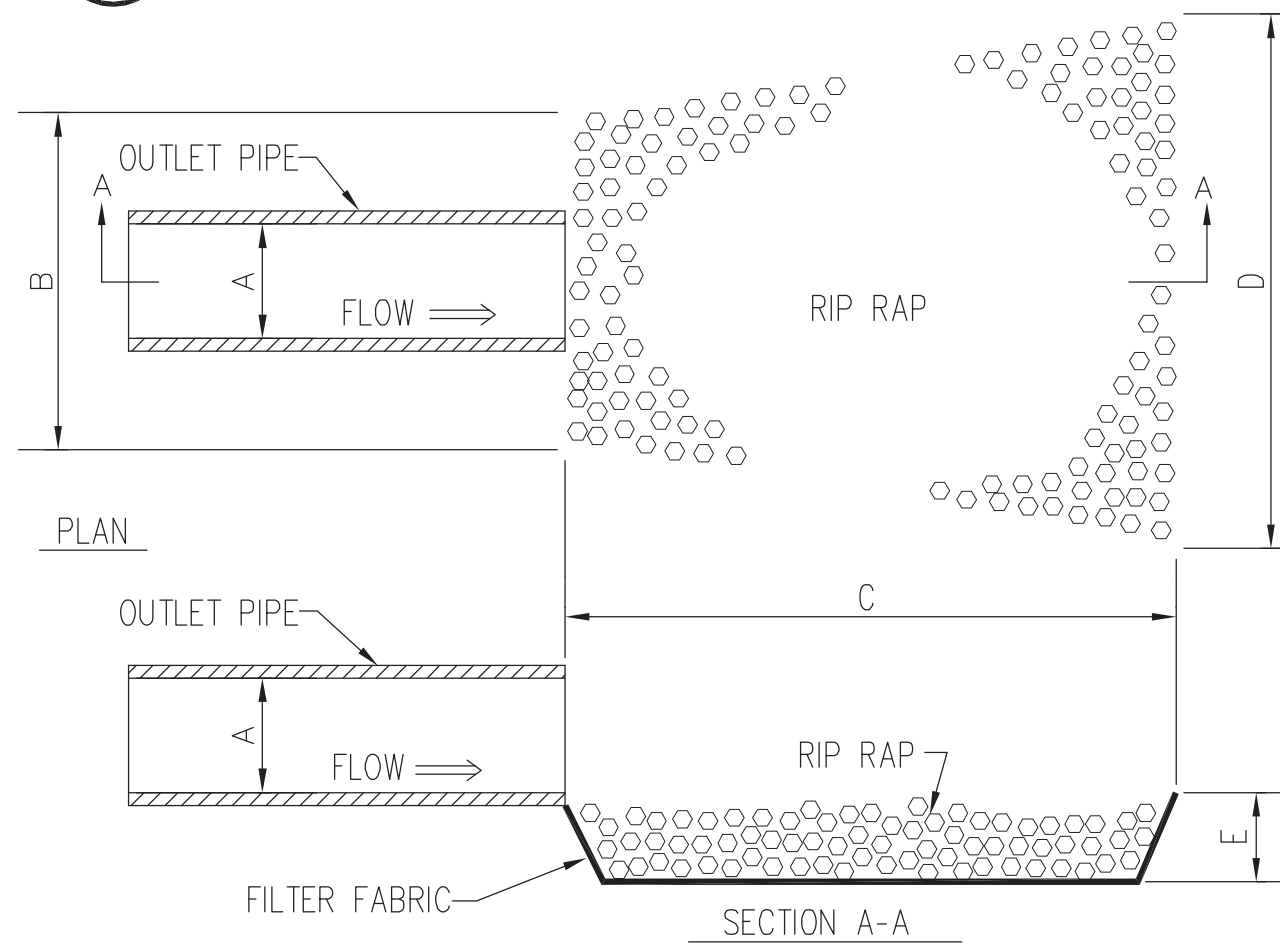


CROSS SECTION TRAPEZOIDAL DITCH

NOTE:  
REMOVE WATTLE UPON INSTALLATION OF SOD.

### B3 COIR FIBER WATTLE

SCALE: NTS

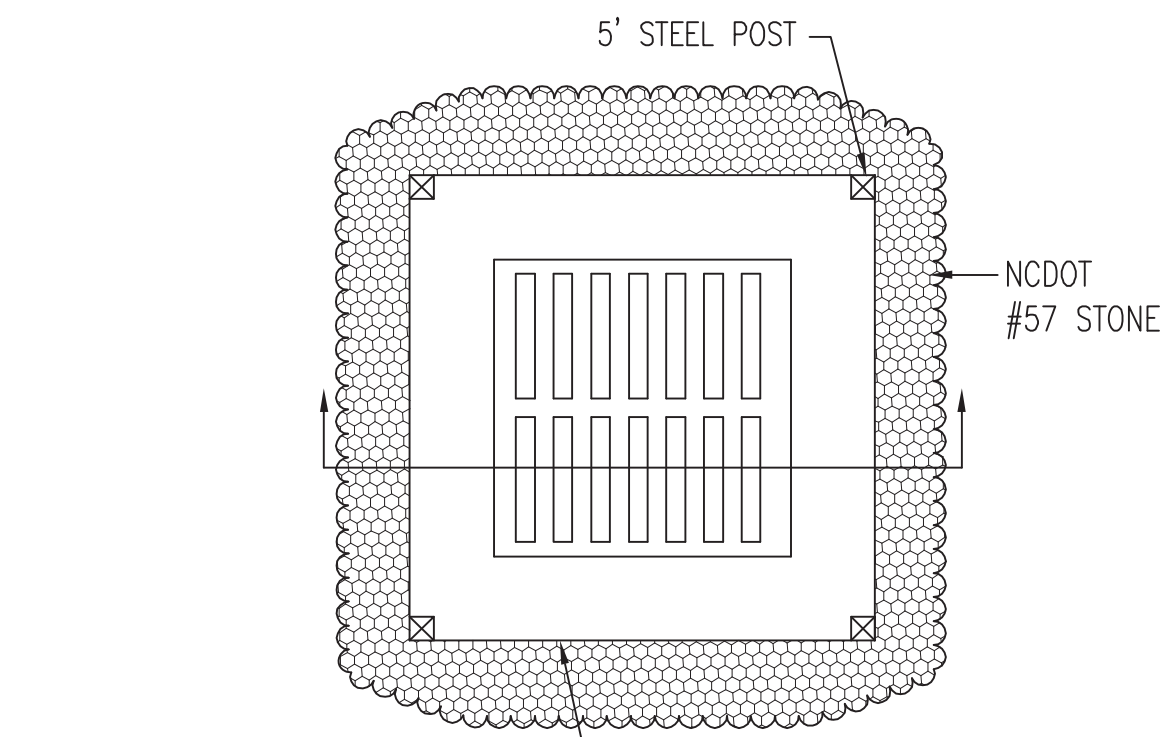


### A3 RIP RAP OUTLET PROTECTION

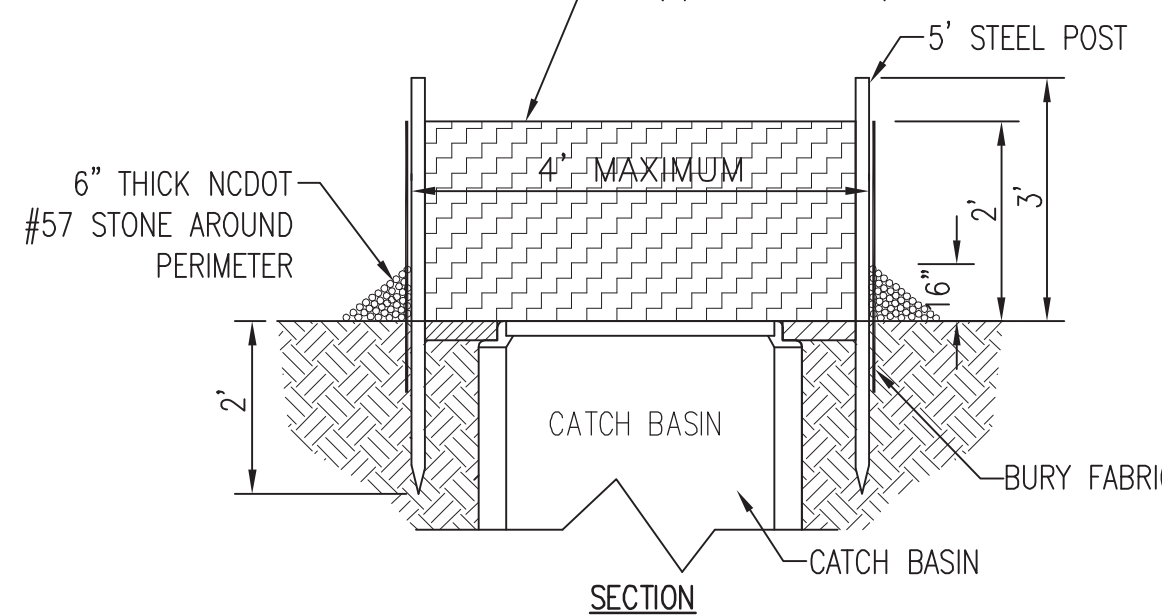
SCALE: NTS

A	B	C	D	E	RIP RAP SIZE
15'x18"	5'	14'	16'	18"	D50=6"/MAX=9"

MAINTENANCE:  
1. INSPECT STRUCTURES AT LEAST WEEKLY AND AFTER AT LEAST A 1/2" OR GREATER RAINFALL EVENT.  
2. IMMEDIATELY MAKE ALL NEEDED REPAIRS.



PLAN



SECTION

NOTE:  
UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.

NOTE:  
PROVIDE DROP INLET PROTECTION AT ALL DRAINAGE STRUCTURES.

MAINTENANCE:  
1. INSPECT STRUCTURES WEEKLY AND AFTER AT LEAST A 1/2" OR GREATER RAINFALL EVENT.  
2. CLEAR DEBRIS AND REPLACE STONE AS NEEDED.  
3. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES A MAXIMUM DEPTH OF SIX (6) INCHES.

### B5 DROP INLET PROTECTION

SCALE: NTS

**PERMANENT VEGETATION**  
ALL DISTURBED AREAS NOT COVERED WITH BUILDINGS, PAVEMENTS, OR OTHER IMPERMEABLE SURFACES MUST BE SODDED WITH CENTIPEDE SOLID SOD AS THE FINAL/PERMANENT VEGETATION.

REFERENCE SPECIFICATION SECTION 02 82 30 "RE-ESTABLISHING VEGETATION" FOR SPECIFIC SOD INSTALLATION AND SOD BED PREPARATION REQUIREMENTS.

**GROUND COVER NOTE:**  
ALL DENUDED AREAS WILL, WITHIN 7 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR CEASING OF GRADING ACTIVITIES, BE PLANTED AND PROVIDED WITH PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

ALL DENUDED AREAS WILL, WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION, BE PROVIDED PERMANENT GROUND COVER.

### A5 VEGETATION PLAN

SCALE: NTS



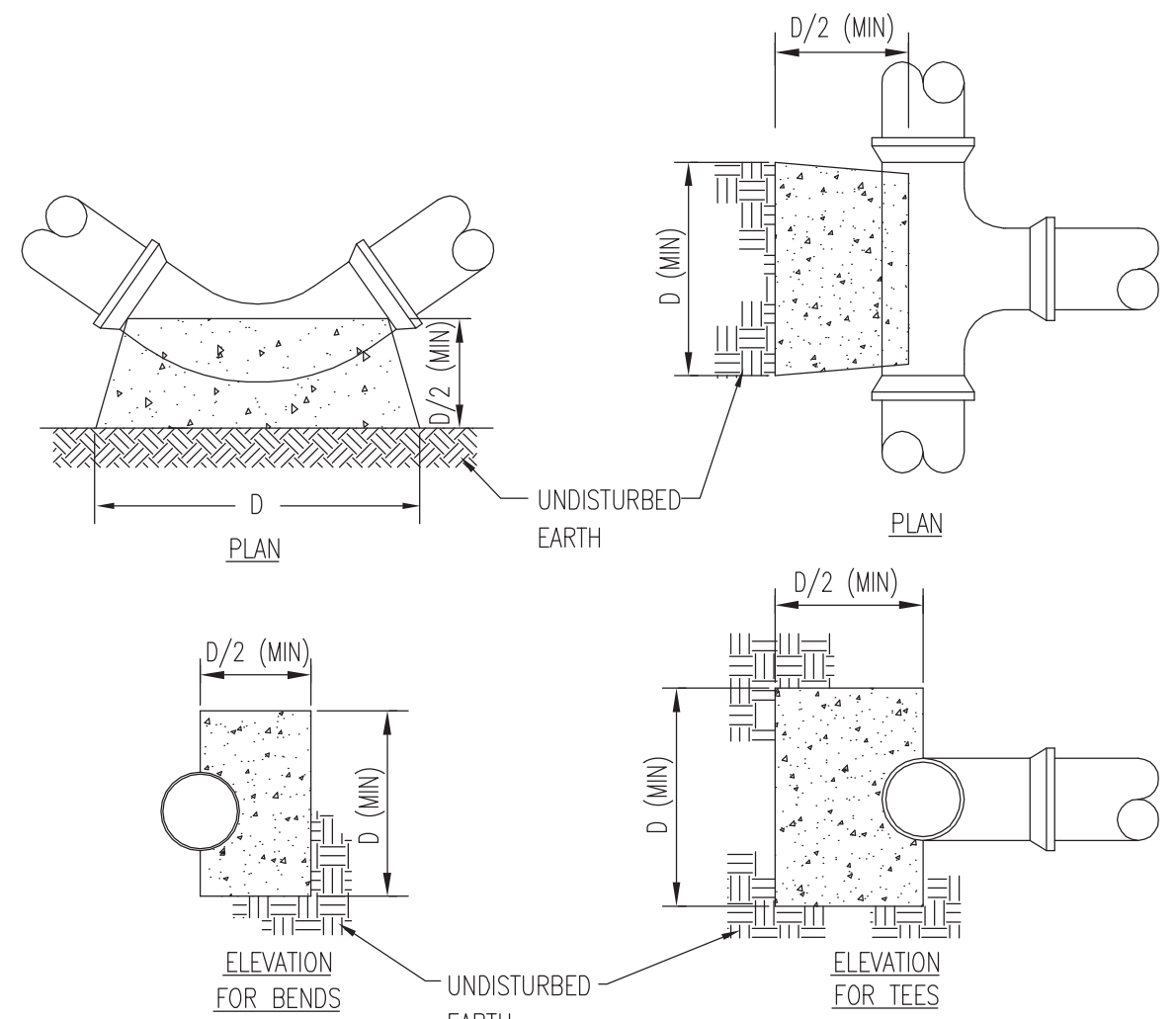
DESIGNED & ENGINEERED BY:  
**AE**  
AVOLIS ENGINEERING, P.A.  
P.O. BOX 15564  
NEW BERN, NC 28561  
PH. (252) 633-0068

APPROVED:  
FOR COMMANDER NAVFAC  
ACTIVITY  
SATISFACTORY TO DATE  
DES: JKA  
DRW: MSP  
CHK: JCA  
BRANCH MANAGER  
CHIEF ENG/ARCH  
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION - NORFOLK, VA  
U.S. MARINE CORPS AIR STATION  
CHERRY POINT, NORTH CAROLINA  
BUILDING 155-RENOVATIONS AND IMPROVEMENTS  
MCAS CHERRY POINT, NC  
DETAILS

SCALE: AS NOTED  
PROJECT NO.:  
MAXIMO WORK ORDER NO.: 6638499  
NAVFAC DRAWING NO.: 12782060  
SHEET 14 OF 103  
CG501





C3

**C5**

Diagram illustrating the installation of a 4" PVC pipe through a concrete wall and floor. The pipe is shown passing through a pre-cast concrete collar and a carrier pipe. The pipe is secured with a 4" brass plug at the top and a plug if the main does not continue at the bottom. The concrete is shown on all sides, with dimensions indicating a 4" clearance from the pipe.

Labels in the diagram include:

- 4" BRASS PLUG
- PRE-CAST CONCRETE COLLAR
- CARRIER PIPE
- 4" PVC PIPE
- CONCRETE ALL SIDES
- 4"
- PLUG IF MAIN DOES NOT CONTINUE
- 4"

A3

## A5

NEW SERVICE VALVE - SEE  
DETAIL, SIZE TO MATCH SERVICE

NEW UTILITY SERVICE

NEW TAPPING SLEEVE

SIDE VIEW

THRUST BLOCK DIMENSION D (IN FEET)					
NOM. PIPE DIA.	TEES & DEAD ENDS	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
2"	1.6	1.5	1.0	0.8	0.8

[illegible]

DESIGNED & ENGINEERED BY:



LICENSE NO. C-0706

**AVOLIS ENGINEERING, P.A.**

P.O. BOX 15564  
NEW BERN, NC 28561  
PH. (252) 633-0068

APPROVED			
OR COMMANDER NAVFAC			
CTIVITY			
SATISFACTORY TO DATE			
ES	<b>JKA</b>	DRW	<b>MSP</b>
		CHK	<b>JCA</b>
M/DM			
BRANCH MANAGER			
CHIEF ENG/ARCH			
RE PROTECTION			

NAVAL FACILITIES ENGINEERING COMMAND - MIDATLANTIC IPT MARINE CORPS	CHERRY POINT, NORTH CAROLINA BUILDING 155-RENOVATIONS AND IMPROVEMENTS MCAS CHERRY POINT, NC
DETAILS	

SCALE:	<b>AS NOTED</b>		
PROJECT NO.:			
AXIMO WORK ORDER NO.	<b>6638499</b>		
AVFAC DRAWING NO.	<b>12782061</b>		
SHEET	<b>15</b>	OF	<b>103</b>
<b>CU501</b>			
DRAWFORM REVISION: 10 MARCH 2009			



## A

MINI ASSIGNED / FOR OFFICIAL USE ONLY

A/E INFO

CJ	CONTROL JOINT	NTS	NOT TO SCALE
CL	CENTER LINE	OC	ON CENTER
CLR	CLEAR	PVMT	PAVEMENT
CONC	CONCRETE	REINF	REINFORCE, -MENT
CONT	CONTINUOUS	REQD	REQUIRED
DIA, Ø	DIAMETER	SF	SQUARE FEET
DWG/DWGS	DRAWINGS	SJ	SAWCUT JOINT
EA	EACH	TYP	TYPICAL
EL, ELEV	ELEVATION	TOC	TOP OF CONCRETE
EQ, EQUIV	EQUAL, EQUIVALENT	UON	UNLESS OTHERWISE NOTED
EMBED	EMBEDDED	W/	WITH
EW	EACH WAY		
EXIST	EXISTING		
f'c	COMPRESSIVE STRESS		
GALV	GALVANIZED		
HORIZ	HORIZONTAL		
JT	JOINT		
KSI	KILOPOUNDS (KIPS) PER SQUARE INCH		
L	ANGLE		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MIN	MINIMUM		
#	NUMBER		

01/20/2017 11:00 AM

COMMANDER NAVFAC

ITY

FACTORY TO DATE

DM

NICH MANAGER

F ENG/ARCH

## PROTECTION

STATION	CHERRY POINT, NORTH CAROLINA
5-RENOVATIONS AND IMPROVEMENTS	
MCAS-CHERRY POINT, NC	

GENERAL NOTES AND ABBREVIATIONS

LE: NONE

TIME WORK ORDER NO.

FAC DRAWING NO.

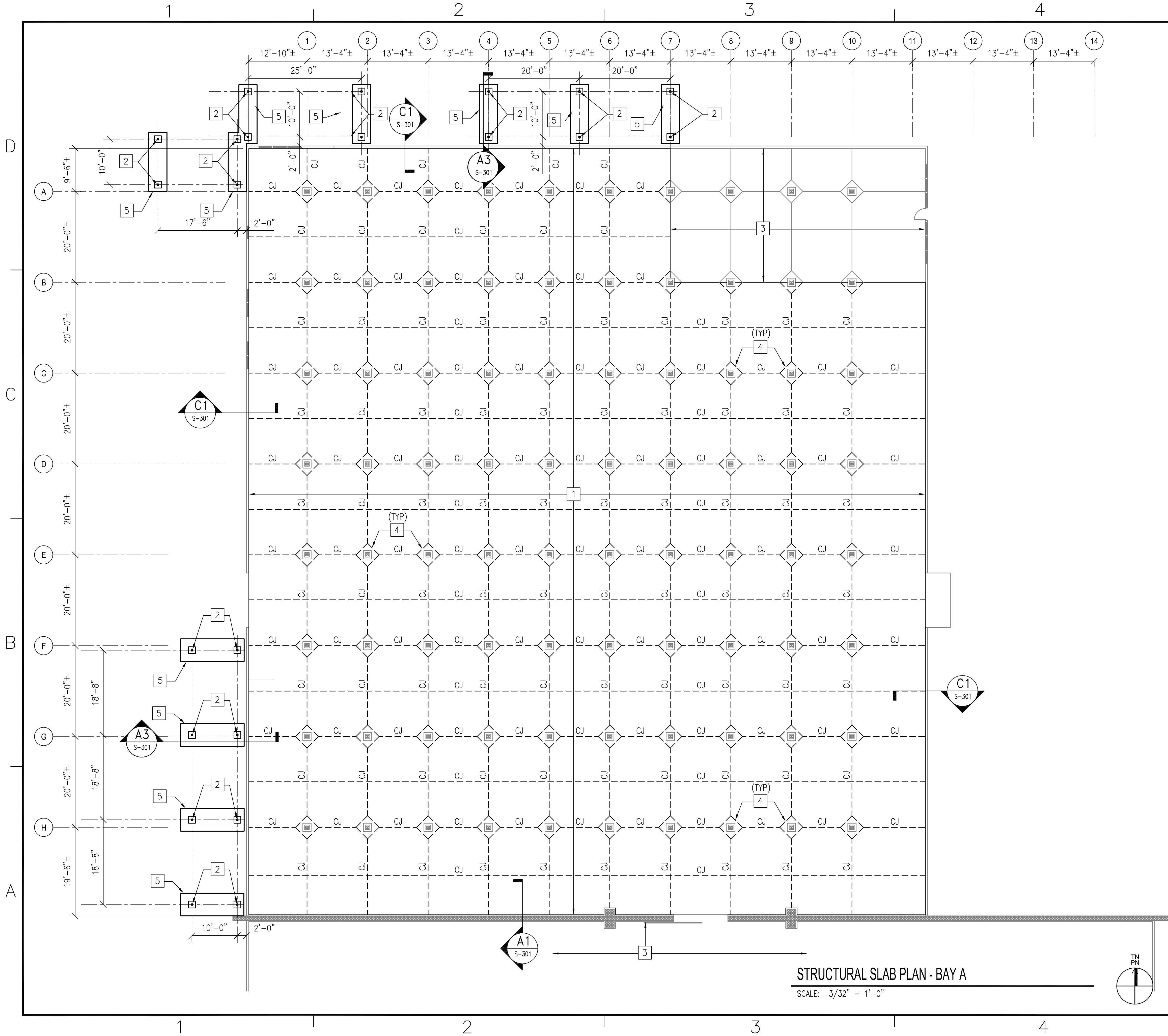
ET 16 OF 103

S-001

DRAWFORM REVISION: 10 MARCH 2005



FILE NAME: J:\2018 Jobs\18.035 - Repair and Improvements to B155 Cherry Point- Walker\18.035\_S-101 PARTIAL SLAB PLAN.dwg LAYOUT NAME: Layout1 PLOTTED: Monday, December 17, 2018 - 10:50am  
UNCLASSIFIED//FOR OFFICIAL USE ONLY

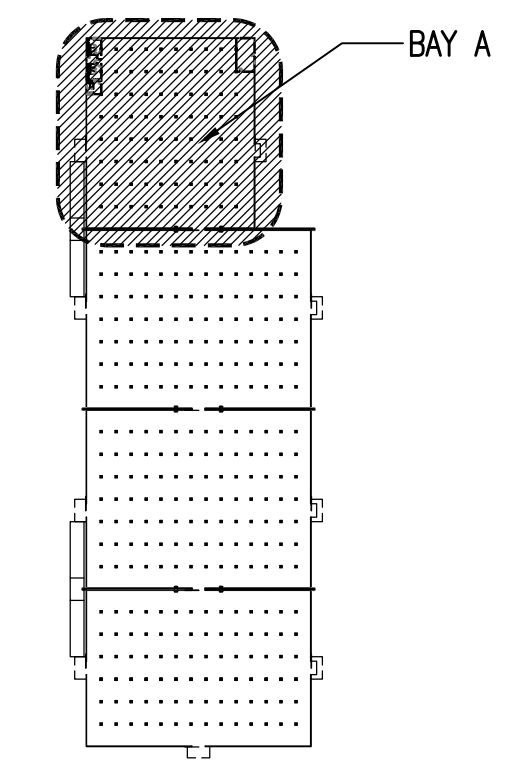


### PLAN NOTES:

- DATUM FOR ALL ELEVATIONS GIVEN ON PLAN IS TOP OF EXISTING CONCRETE SLAB ELEVATION =0'-0".
- TOP OF NEW SLAB ELEVATIONS =0'-0" (MATCH EXISTING).
- FOR DEMOLITION OF EXISTING ASPHALT PAVEMENT REFER TO CIVIL DRAWINGS. TAKE CARE NOT TO DISTURB EXISTING STONE BASE BENEATH ASPHALT PAVEMENT.
- SLAB CONSTRUCTION IS AN 6" (MIN.) THICK CONCRETE SLAB-ON-GRADE ON VAPOR BARRIER, REINFORCED w/ 6x6-W2.9xW2.9 WELDED WIRE FABRIC LOCATED 2" FROM TOP OF SLAB.
- THE SYMBOL CJ INDICATES SLAB CONTROL JOINT LOCATIONS. CONTROL JOINTS MAY BE SAW JOINTS OR CONSTRUCTION JOINTS, AT CONTRACTOR'S DISCRETION. FOR SLAB CONTROL JOINT DETAILS REFER TO B1/S501.

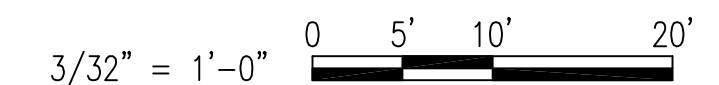
### SHEET KEY NOTES: #

- 6" CONCRETE SLAB-ON-GRADE REFER TO PLAN NOTE 4.
- COLUMN C1, REFER TO SCHEDULE ON SHEET S-501.
- EXISTING CONCRETE SLAB TO REMAIN.
- COLUMN ISOLATION JOINT. REFER TO DETAIL B3/S501.
- 4'-0" WIDE x 13'-0"± LONG x12" THICK CONCRETE FOOTING REINFORCED WITH (5) #6 LONG WAYS AND (12) #6 SHORT WAYS TOP AND BOTTOM. CENTER ON COLUMNS.



KEY PLAN N.T.S.

### GRAPHIC SCALE:



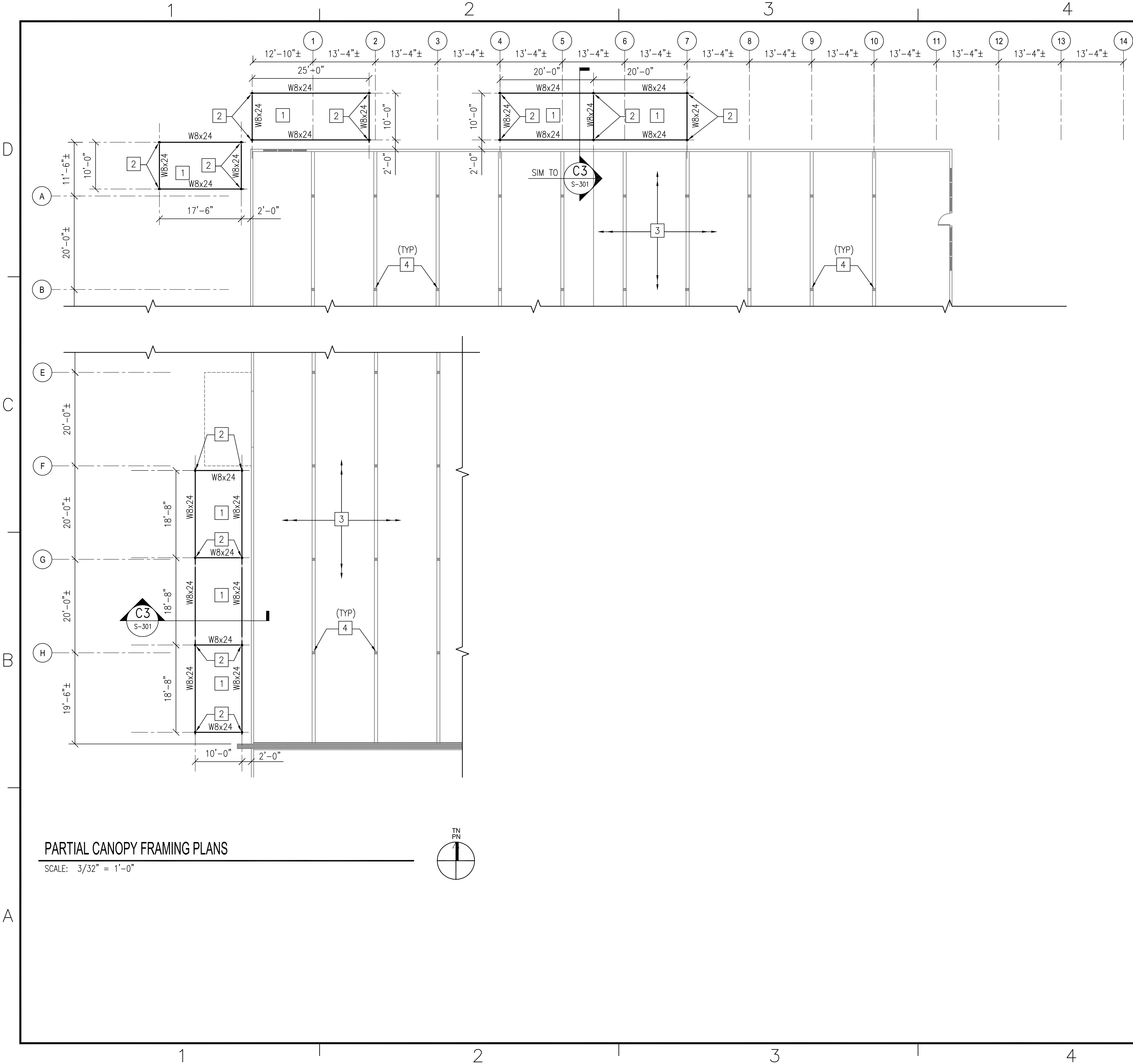
STRUCTURAL SLAB PLAN - BAY A

SCALE: 3/32" = 1'-0"

APPROVED		DATE	APPR
FOR COMMANDER NAVFAC		ACTIVITY	DESCRIPTION
SATISFACTORY TO		DATE	
DES KMR	DRW JSS	CHK KMR	
PM/DM		BRANCH MANAGER	
CHIEF ENG/ARCH		TIRE PROTECTION	
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC		STRUCTURAL SLAB PLAN - BAY A	
U.S. MARINE CORPS AIR STATION		CHERRY POINT, NORTH CAROLINA	
BUILDING 155-RENOVATIONS AND IMPROVEMENTS		MCAS-CHERRY POINT, NC	
SCALE: AS NOTED		PROJECT NO.: XH67399	
EPROJCT NO.:		MAXIMO WORK ORDER NO. 6638499	
NAVFAC DRAWING NO. 12782063		SHEET 17 OF 103	
S-101		DRAWN/REVISION: 10 MARCH 2009	



FILE NAME: J:\2018 Jobs\18.035 - Repair and Improvements to B155 Cherry Point- Walker\18.035\_S-102 PARTIAL CANOPY FRAMING PLANS.dwg LAYOUT NAME: Layout1 PLOTTED: Monday, December 17, 2018 - 10:50am UNCLASSIFIED//FOR OFFICIAL USE ONLY

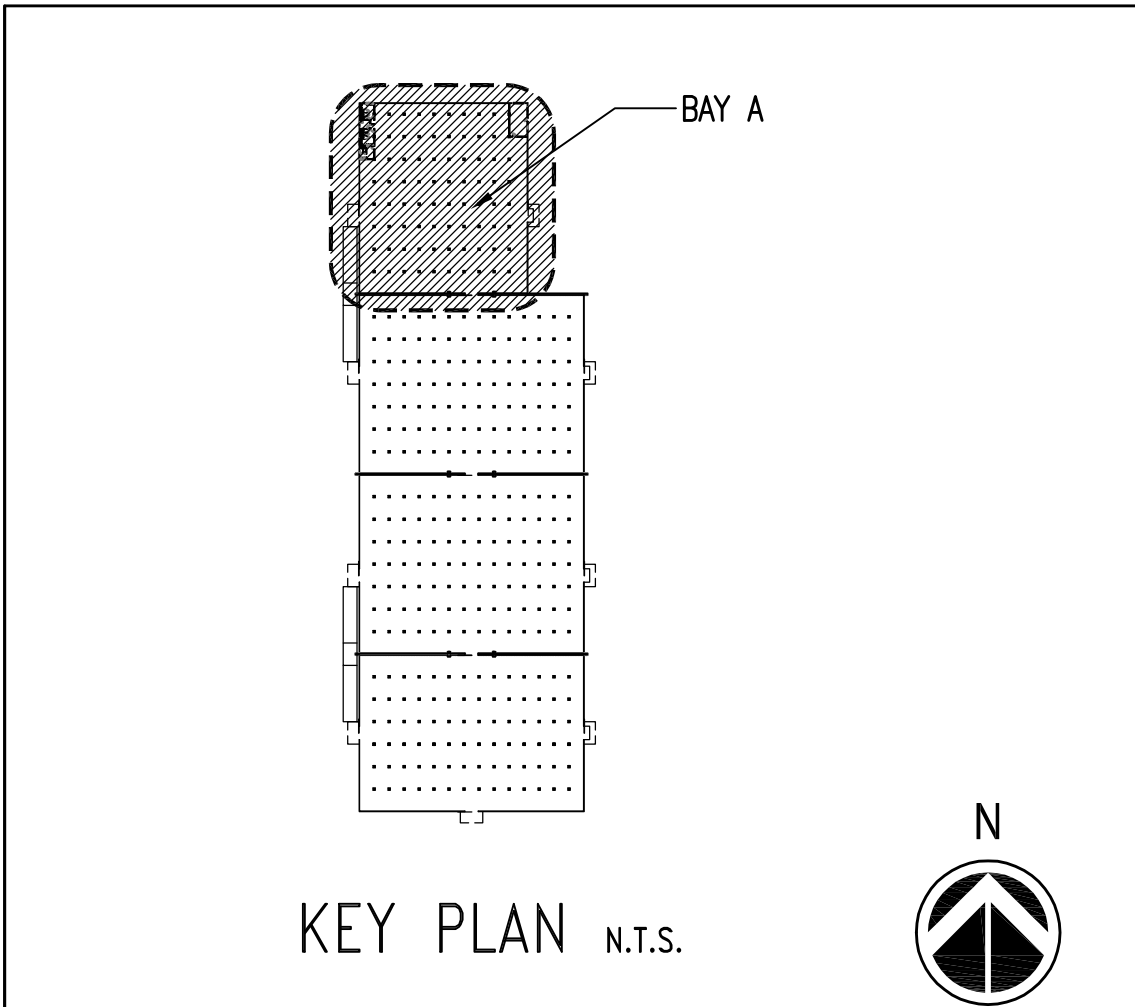


PARTIAL CANOPY FRAMING PLANS  
SCALE: 3/32" = 1'-0"

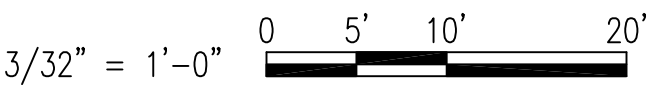
- PLAN NOTES:
- DATUM FOR ALL ELEVATIONS GIVEN ON PLAN IS TOP OF EXISTING CONCRETE SLAB ELEVATION =0'-0". REFER TO CIVIL DRAWINGS FOR ACTUAL ELEVATION.
  - TOP OF STEEL BEAM ELEVATION IS INDICATED THUS: (+\_\_\_\_) ON PLAN INDICATING DISTANCE ABOVE DATUM.
  - CANOPY CONSTRUCTION CONSISTS OF WOOD JOISTS SPANNING TO STEEL BEAMS AND COLUMNS..

SHEET KEY NOTES: #

- 2x8 JOISTS SPACED AT 16" OC MAX..
- HSS COLUMN, REFER TO SHEET S-101 & SCHEDULE ON SHEET S-501.
- EXISTING ROOF FRAMING TO REMAIN.
- EXISTING WOOD COLUMN TO REMAIN

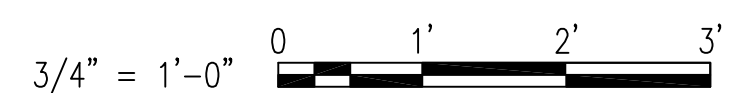


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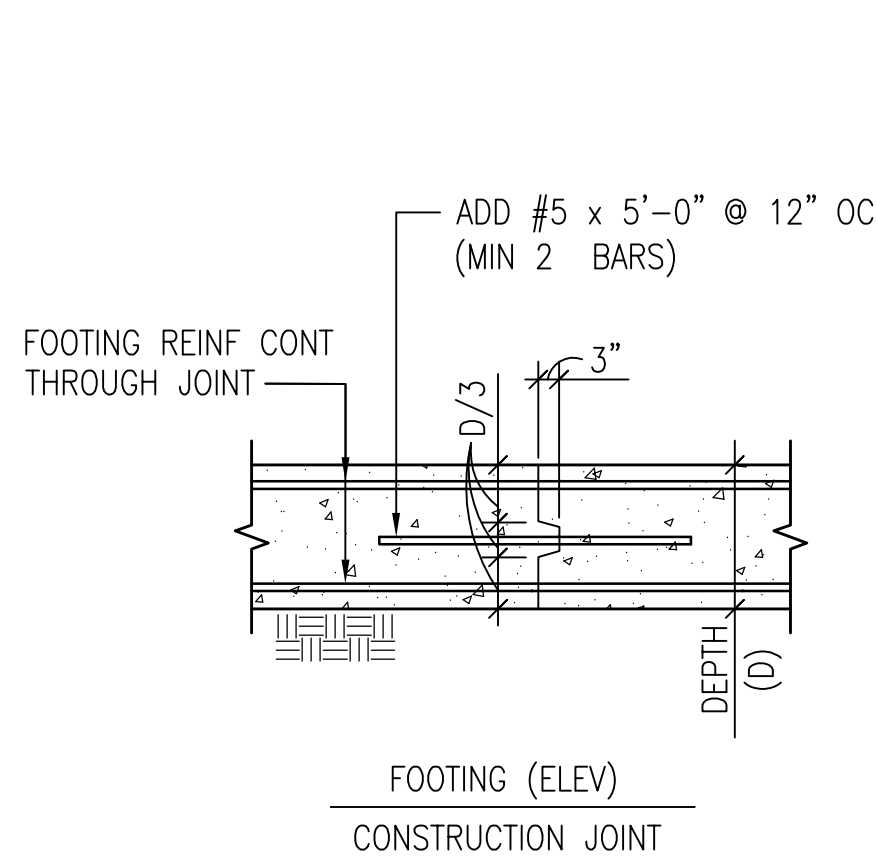
APPROVED	DATE	APPR
SYN	DESCRIPTION	DATE
<b>WALKER the GROUP ARCHITECTURE</b> Incorporated PO BOX 541, NEW BERN, NC 28563 252.636.8778 252.636.8992(fax)		
<b>PROFESSIONAL SEAL</b> NORTH CAROLINA ENGINEER KEVIN M. ROOFSBORG 022530 12/17/18		
<b>NRW ENGINEERING</b> Structural Consultants 748 Lord Dunmore Drive, Suite 101 Virginia Beach, VA 23464 Phone 757-474-0812 Fax 757-474-0919		
APPROVED		
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO DATE		
DES KMR	DRW JSS	CHK KMR
PM/DM		
BRANCH MANAGER		
CHIEF ENG/ARCH		
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVAL STATION - NORFOLK, VA U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA BUILDING 155-RENOVATIONS AND IMPROVEMENTS MCAS-CHERRY POINT, NC		
PARTIAL CANOPY FRAMING PLANS - BAY A		
SCALE: AS NOTED		
EPROJECT NO.: XH67399		
MAXIMO WORK ORDER NO. 6638499		
NAVFAC DRAWING NO. 12782064		
SHEET 18 OF 103		
<b>S-102</b>		
DRAWN/REVISED: 10 MARCH 2009		



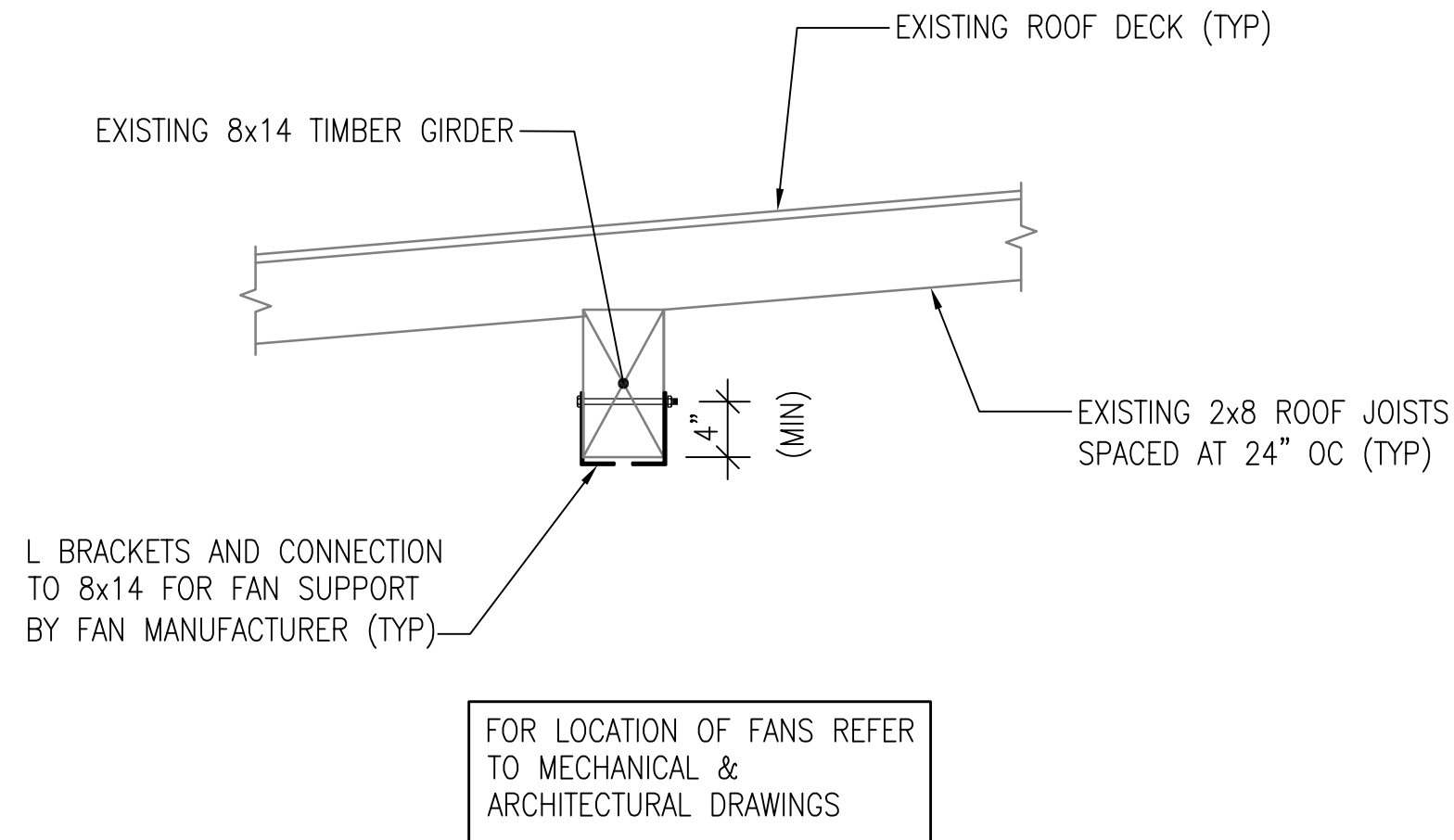
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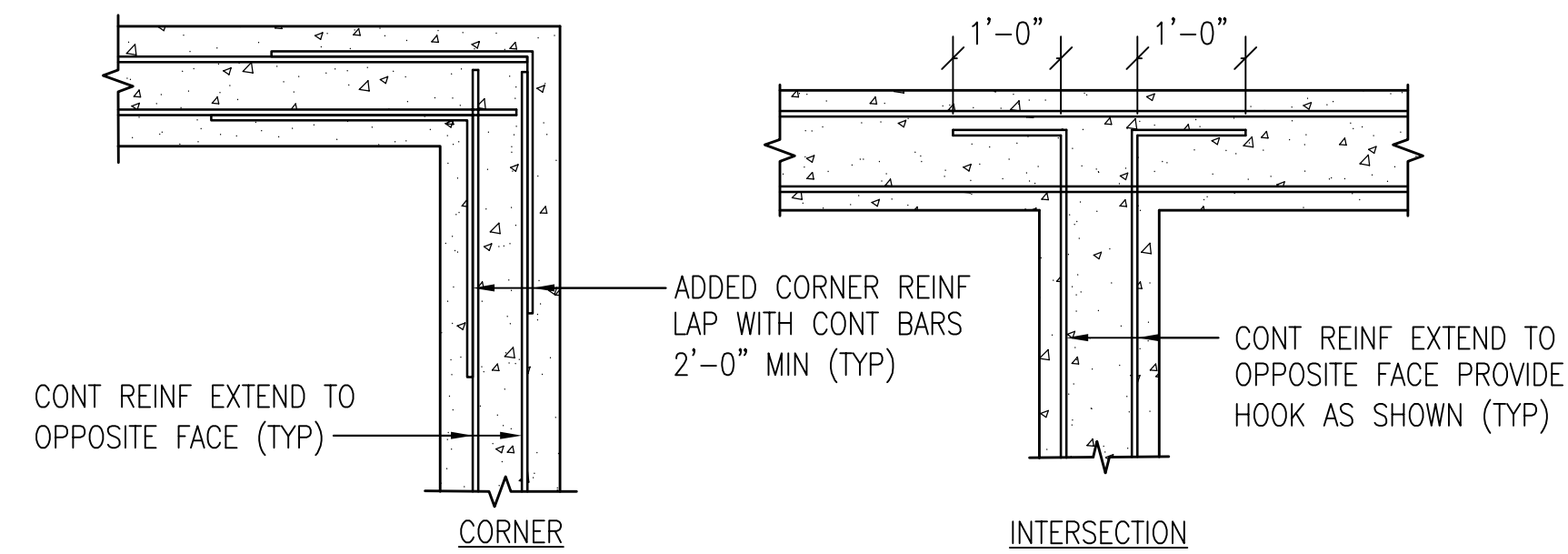
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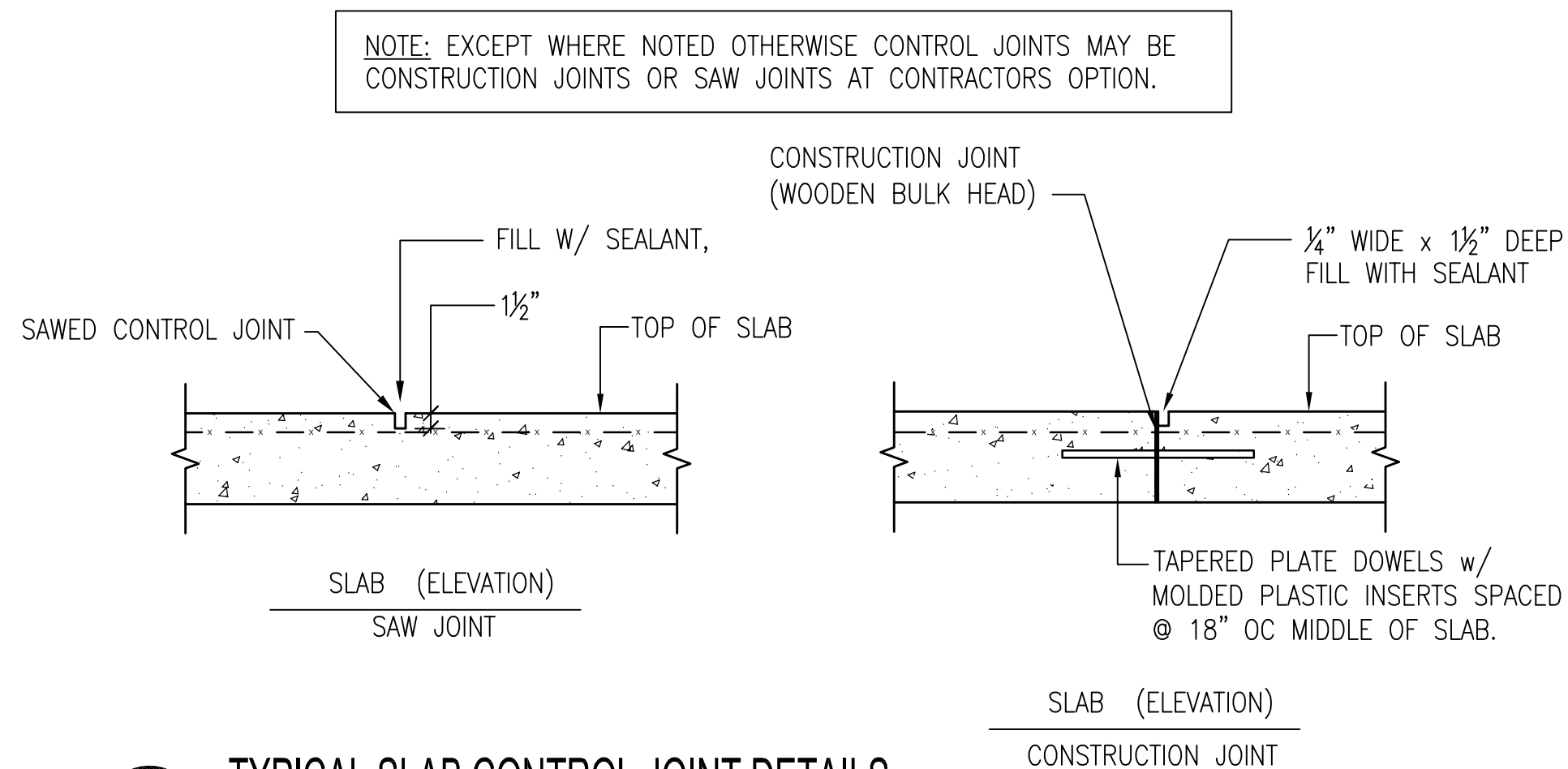
**C1** TYPICAL FOOTING CONSTRUCTION JOINT DETAIL  
SCALE: NTS



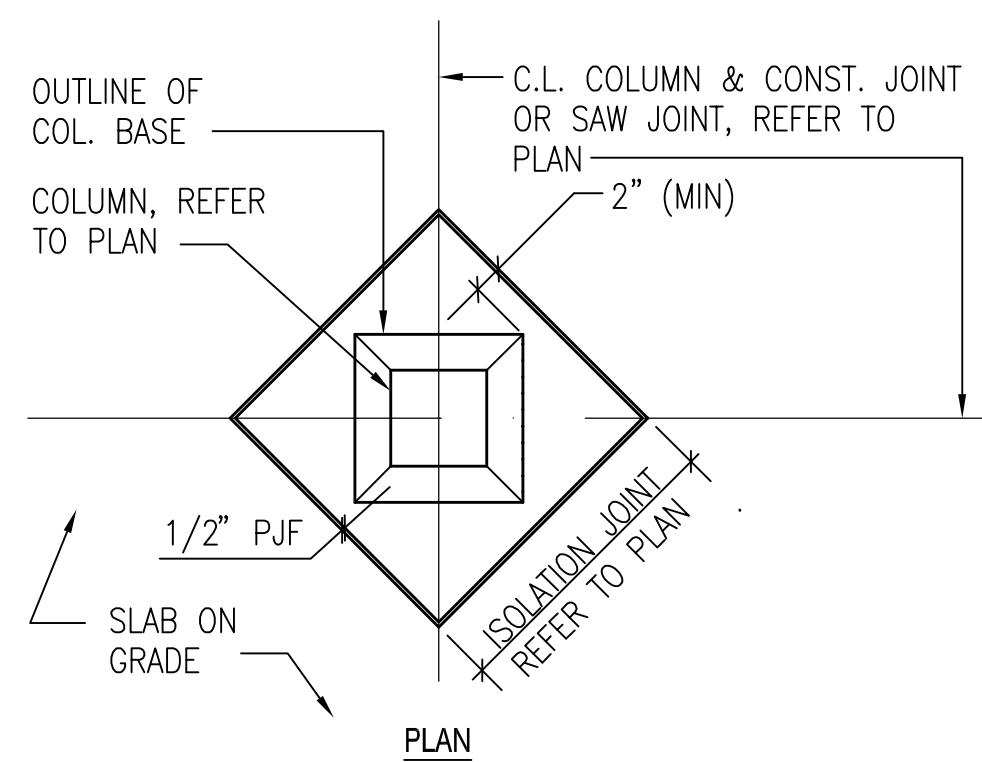
**C2** TYPICAL CEILING FAN SUPPORT DETAIL  
SCALE: NTS



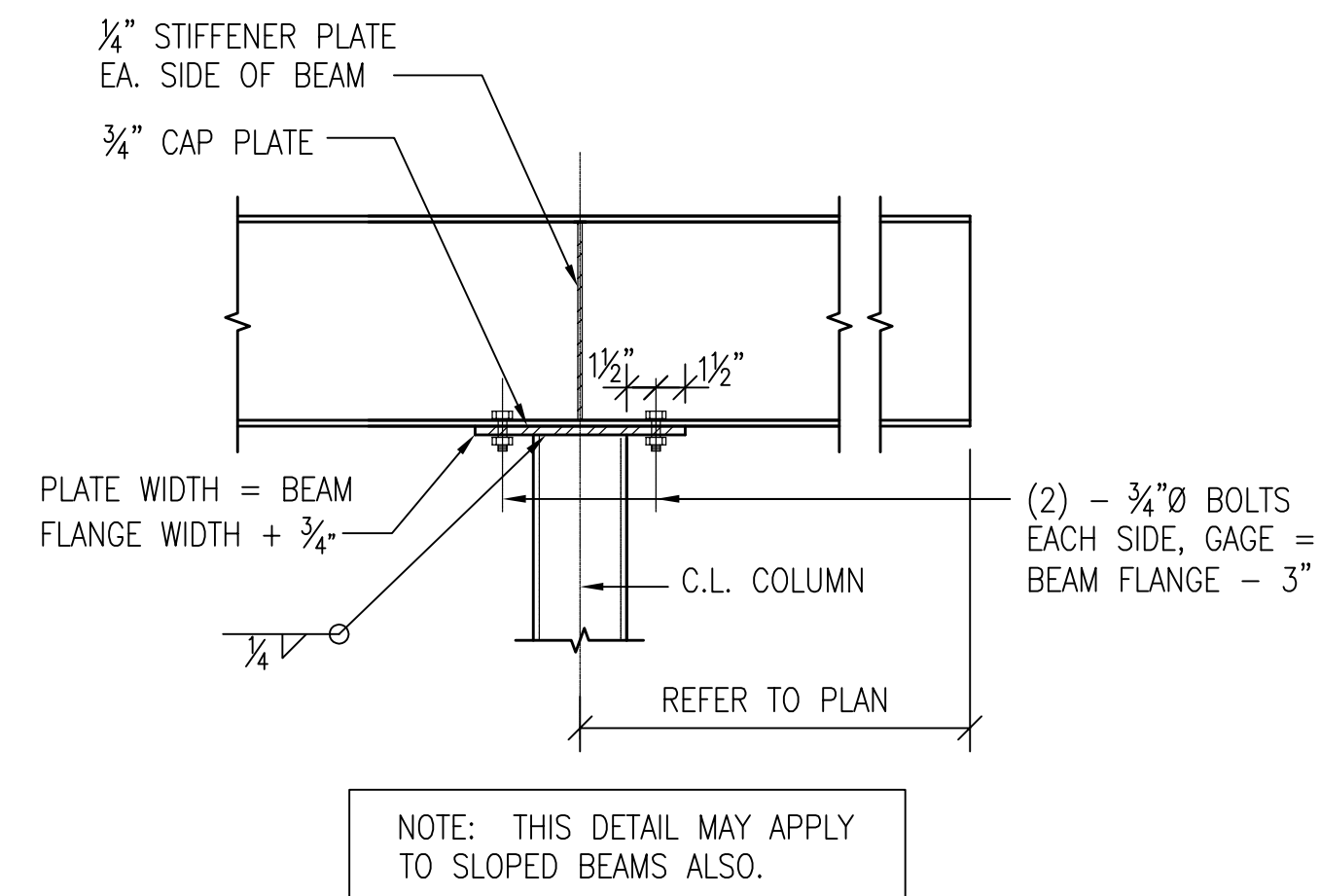
**C4** TYPICAL DETAIL SHOWING CONTINUOUS REINFORCING AT CORNERS AND INTERSECTIONS  
SCALE: NTS



**B1** TYPICAL SLAB CONTROL JOINT DETAILS  
SCALE: NTS



**B3** TYPICAL ISOLATION JOINT DETAIL  
SCALE: NTS

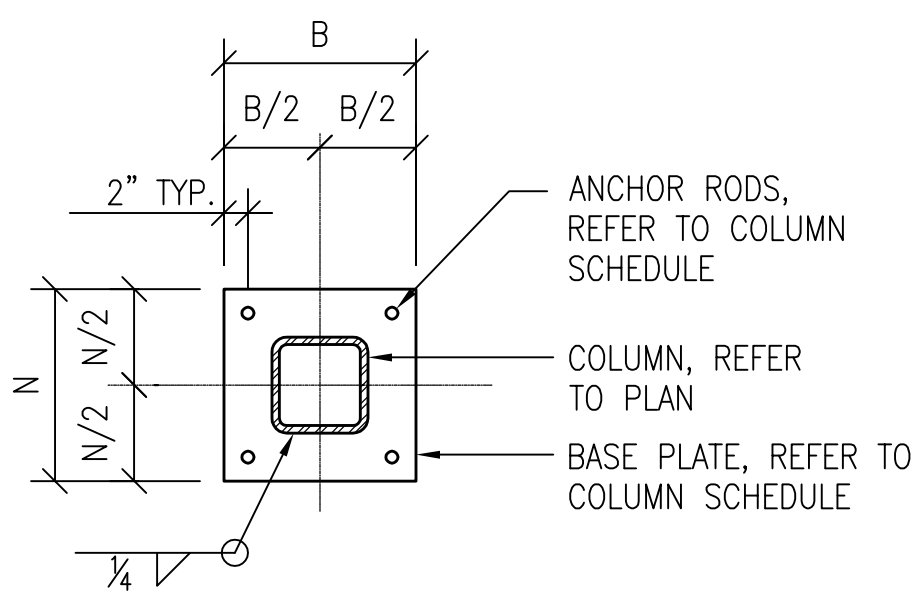


**B4** TYPICAL CANTILEVER BEAM DETAIL  
SCALE: NTS

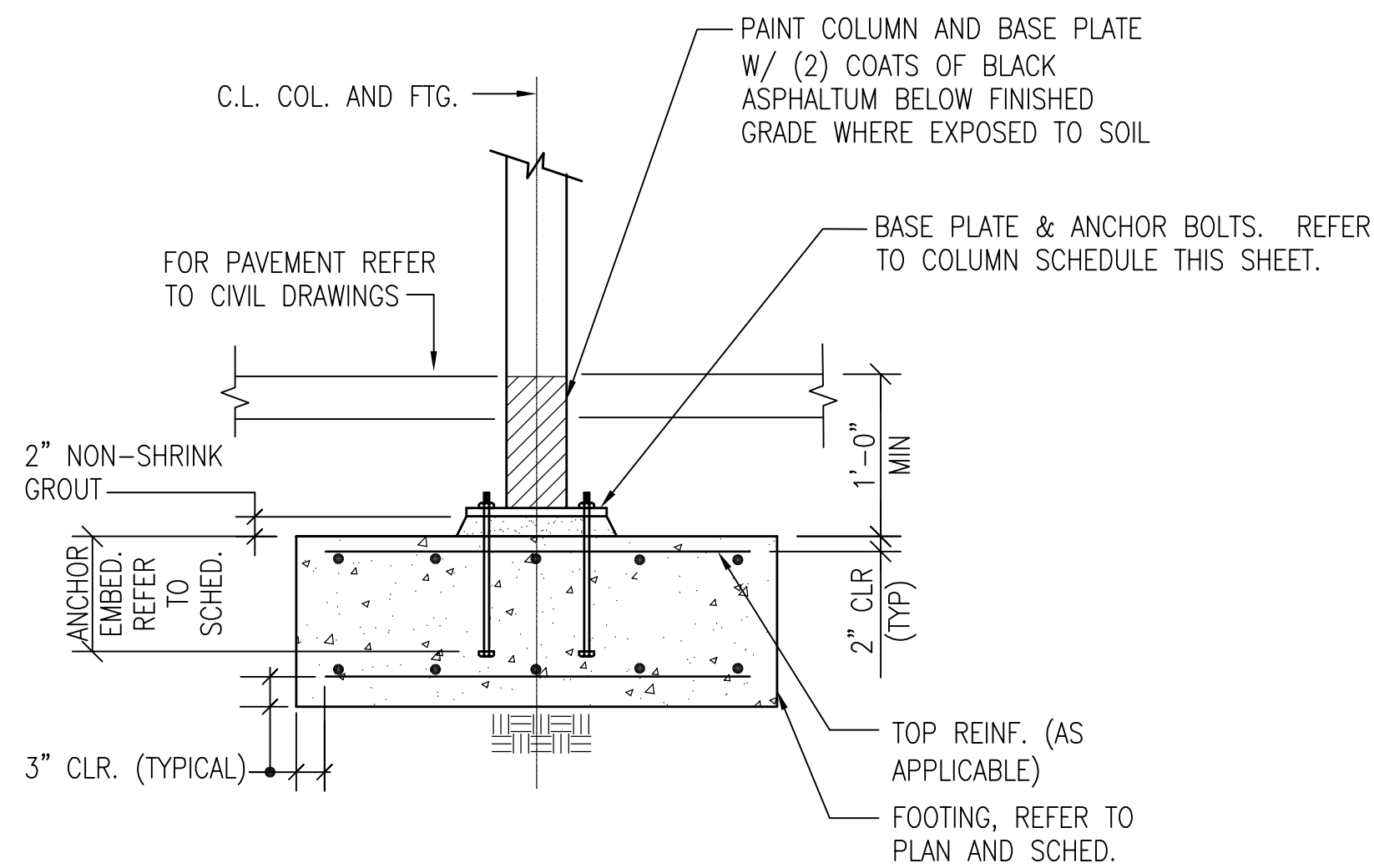
COLUMN SCHEDULE					
MARK	SIZE	B	N	THICKNESS	HEADED ANCHOR RODS
C1	HSS6x6x1/4	14	14"	3/4"	(4) 3/4" Ø
					EMBEDMENT
					9"

NOTE:  
1. HEADED ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 WITH HEAVY HEX NUTS.  
2. OVERSIZE BASE PLATE HOLES WITH WASHERS AS FOLLOWS:

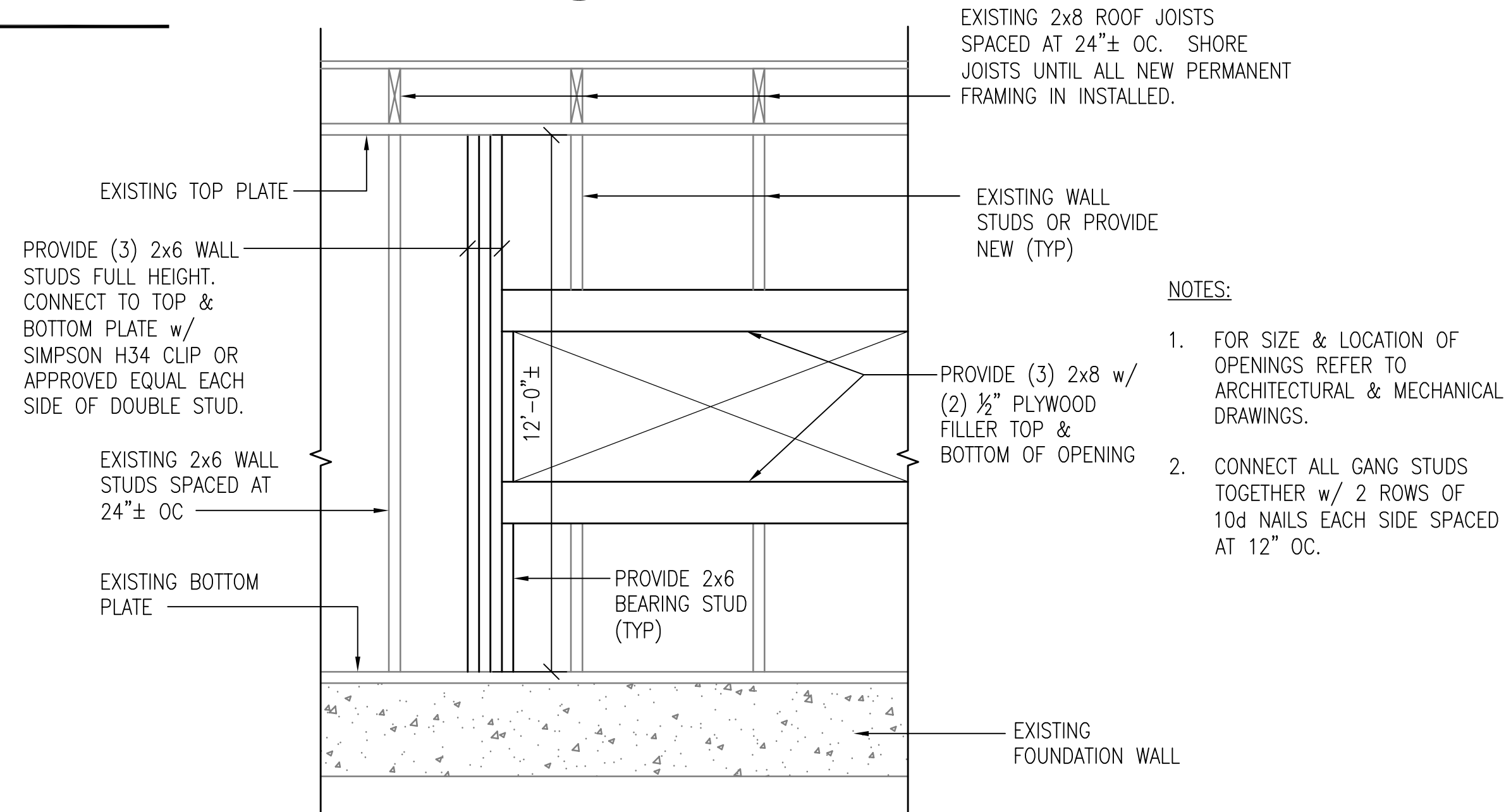
BOLTS	HOLE Ø	WASHER
3/4" Ø	1 1/16"	1/4" x 2" Ø



**A1** TYPICAL BASE PLATE DETAIL  
SCALE: NTS



**A2** TYPICAL COLUMN AND FOOTING DETAIL  
SCALE: NTS



**A4** TYPICAL WALL OPENING DETAIL  
SCALE: NTS

WALKER the GROUP ARCHITECTURE Incorporated  
PO BOX 541, NEW BERN, NC 28563  
252.636.8778 252.636.8992(fax)

NORTH CAROLINA PROFESSIONAL SEAL  
KEVIN M. ROOFSBURG  
12/17/18

NRW ENGINEERING Structural Consultants  
748 Lord Dunmore Drive, Suite 101  
Virginia Beach, VA 23064  
Phone 757-474-0812 Fax 757-474-0919

APPROVED: \_\_\_\_\_  
FOR COMMANDER NAVFAC  
ACTIVITY: \_\_\_\_\_  
SATISFACTORY TO: \_\_\_\_\_ DATE: \_\_\_\_\_  
DES: KMR | DRW: JSS | CHK: KMR  
PM/DM: \_\_\_\_\_  
BRANCH MANAGER: \_\_\_\_\_  
CHIEF ENG/ARCH: \_\_\_\_\_  
FIRE PROTECTION: \_\_\_\_\_

NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC  
NAVAL STATION - NORFOLK, VA  
U.S. MARINE CORPS AIR STATION  
CHERRY POINT, NORTH CAROLINA  
BUILDING 155-RENOVATIONS AND IMPROVEMENTS  
MCAS-CHERRY POINT, NC

SCALE: NONE  
PROJECT NO.: XH67399  
MAXIMO WORK ORDER NO. 6638499  
NAVFAC DRAWING NO. 12782066  
SHEET 20 OF 103  
S-501