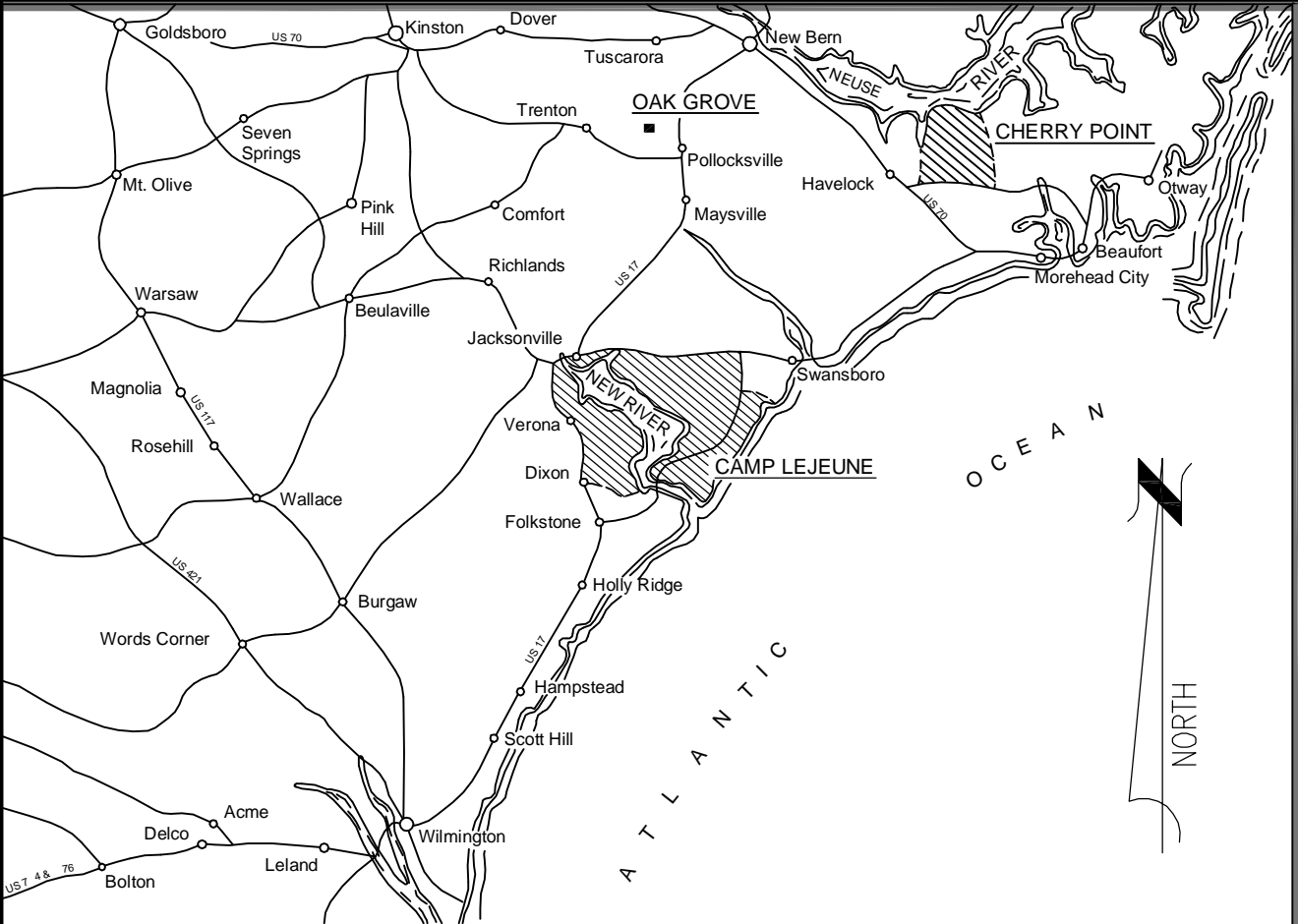
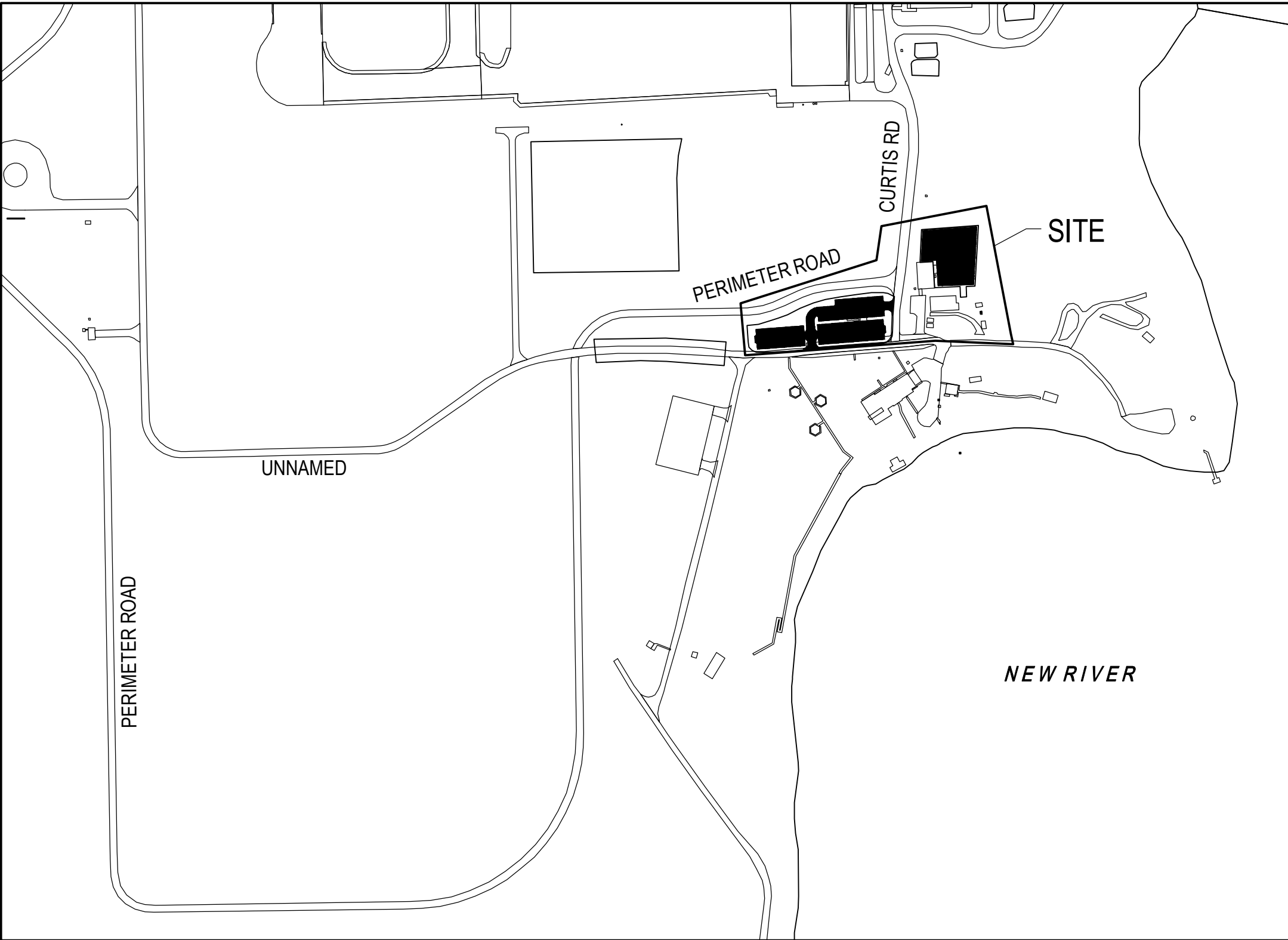


LOCATION MAP - U. S. MARINE CORPS BASE  
CAMP LEJEUNE, NC



VICINITY MAP - CAMP LEJEUNE, N.C.



PROJECT LOCATOR MAP  
NO SCALE

CONSTRUCT NEW RIVER MARINA  
PARKING LOT, MCASNR  
MARINE CORPS BASE CAMP LEJEUNE  
CONTRACT NO. N40085-20-B-0077

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REVISIONS			
SYM		DATE	APPROVED

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LICENSE NO. C-0708

AVOLIS ENGINEERING, P.A.

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



AE PROJECT # 20081

NRW ENGINEERING, P.C.  
Consulting Structural Engineers  
748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464  
Tel. 757-474-0512 Fax 757-474-0919

DES. J. K. AVOLIS, P.E.  
DR. MSP / WFF  
CHK. J. C. AVOLIS, P.E.  
SUBMITTED BY:  
DESIGN DIR. T. H. BURTON, P.E.  
APPROVED: PWO OR OICC  
SATISFACTORY TO:

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

**MARINE CORPS BASE**  
CAMP LEJEUNE, NORTH CAROLINA

CONSTRUCT NEW RIVER MARINA  
PARKING LOT, MCASNR  
MARINE CORPS BASE CAMP LEJEUNE  
COVER SHEET

SIZE: <b>F</b>	CODE IDENT. NO: <b>80091</b>	NAVFAC DRAWING NO. <b>60035404</b>
CONSTR. CONTR. NO. N40085-20-B-0077		
SCALE: NOTED	SPEC: 05-20-0077	SHEET 01 OF 17



GENERAL CONSTRUCTION NOTES:
1. CONSTRUCTION OPERATIONS SHALL BE COMPLETED IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS AND AS SPECIFIED.
2. THE PLANS DEPICT THE GENERAL INTENT OF CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES BEYOND THE LIMITS OF WORK. ANY ITEM DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR REPLACED WITH NEW.
3. DIMENSIONS AND CONDITIONS SHOWN ARE APPROXIMATE AND ARE ACCURATE AS OF THE TIME OF SITE INSPECTION. THE CONTRACTOR SHALL CONFIRM TO HIS OWN SATISFACTION SITE CONDITIONS INCLUDING A VERIFICATION OF CONDITIONS SHOWN AND NOT SHOWN.
4. ADJACENT STRUCTURES AND UTILITIES MUST REMAIN IN OPERATION DURING CONSTRUCTION ACTIVITIES. EXISTING ROADS SHALL REMAIN OPEN AND ACCESSIBLE BY VEHICULAR AND PEDESTRIAN TRAFFIC. IF ROADWAY CLOSURE IS REQUIRED, APPROVAL SHALL BE SECURED FROM THE CONTRACTING OFFICER. THE CONTRACTOR SHALL PROVIDE BARRICADES, LIGHTS, SIGNAGE AND OTHER PROTECTIVE DEVICES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
5. THE CONTRACTOR SHALL PROVIDE FENCING, BARRICADES OR OTHER PROTECTIVE DEVICES TO MAINTAIN A SECURED WORK AREA AT ALL TIMES.
6. PRIOR TO STARTING CONSTRUCTION ON ANY STRUCTURES OR UTILITIES, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS OF ANY STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL DEVELOP A PLAN OF CONSTRUCTION THAT ENSURES ALL ACTIVITIES ARE COMPLETED IN A SAFE MANNER. PROVIDE ANY TEMPORARY SHORING, SHEETING OR SUPPORT REQUIRED TO COMPLETE WORK IN A SAFE MANNER.
7. ALL EROSION CONTROL FEATURES SHOWN SHALL BE INSTALLED PRIOR TO DEMOLITION ACTIVITIES STARTING.
8. THE CONTRACTOR SHALL MINIMIZE DUST GENERATED FROM CONSTRUCTION ACTIVITIES BY WET METHODS OR OTHER APPROVED METHODS.
9. WHERE ROADS, SIDEWALKS, ETC ARE INDICATED TO BE CUT AND PATCHED, EACH SHALL BE REMOVED AND REPLACED ALONG NEAT SAWCUT LINES, AND TO THE NEAREST JOINT WHERE IT EXISTS.
10. ANY FILL MATERIAL REQUIRED TO ESTABLISH THE FINISH GRADES SHOWN SHALL BE OBTAINED FROM A PROPERLY PERMITTED BORROW PIT. ANY EXCESS SOIL MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF OF THE GOVERNMENT PROPERTY.
11. IF DURING CONSTRUCTION, ANY SOILS ARE ENCOUNTERED THAT ARE SUSPECTED OF BEING CONTAMINATED, WORK SHALL CEASE AND THE CONTRACTING OFFICER SHALL BE CONTACTED FOR RESOLUTION.

UTILITY NOTES:
1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL SECURE THE SERVICES OF A PROFESSIONAL UTILITY LOCATE CONTRACTOR TO MARK ALL EXISTING UTILITIES IN THE AREA OF WORK. UTILITY MARKINGS SHALL BE MAINTAINED FOR THE DURATION OF DEMOLITION ACTIVITIES. THE CONTRACTOR SHALL NOTIFY 811 IN ADDITION TO HIRING THE SERVICES OF A PROFESSIONAL LOCATE COMPANY.
2. ALL UTILITY LINES TO REMAIN SHALL REMAIN ACTIVE AND SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITIES.
3. EXISTING UTILITIES SHALL NOT BE INTERRUPTED WITHOUT THE APPROVAL OF THE CONTRACTING OFFICER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE, TO ORIGINAL CONDITION, ANY UTILITIES DAMAGED DURING CONSTRUCTION ACTIVITIES FROM THE CONTRACTOR'S OPERATIONS.
5. ALL COSTS ASSOCIATED WITH LOCATING, DISCONNECTING ABANDONING AND CAPPING OF UTILITY LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE REMOVAL OF ALL UTILITIES INDICATED WITH THEIR RESPECTIVE UTILITY PURVEYORS.
7. ALL PIPES AND CONDUITS THAT ARE TO BE ABANDONED IN PLACE, SHALL BE CAPPED OR PLUGGED TO SECURE ALL OPEN ENDS TO FORM A WATERTIGHT SEAL.
8. ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.

HAZARDOUS AND OTHER MATERIAL SPECIAL HANDLING NOTES:
1. THE CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL CONSTRUCTION WASTE AND EXCESS MATERIAL OFF OF THE BASE PROPERTY. THE CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL AND FEDERAL HAULING AND DISPOSAL REGULATIONS.
2. BURNING ON THE BASE PROPERTY IS NOT PERMITTED.
3. IF SUSPECT HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION, WORK IN THE AFFECTED AREA SHALL STOP AND THE CONTRACTING OFFICER SHALL BE NOTIFIED IMMEDIATELY TO CONFIRM SITE CONDITIONS.
4. IF SUSPECTED AREAS OF SOIL OR GROUNDWATER CONTAMINATION ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK IN THE AFFECTED AREA SHALL STOP AND THE CONTRACTING OFFICER SHALL BE NOTIFIED IMMEDIATELY TO CONFIRM SITE CONDITIONS.
5. MONITORING WELLS EXIST IN THE AREA OF WORK. ALL MONITORING WELLS SHALL BE PROTECTED FROM DEMOLITION ACTIVITIES BY THE CONTRACTOR. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE. REPORT ANY DAMAGE TO THE CONTRACTING OFFICER IMMEDIATELY.

SPECIAL REQUIREMENTS APPLICABLE TO THIS PROJECT:
THIS PROJECT IS LOCATED WITHIN AN AREA BEING INVESTIGATED UNDER THE MUNITIONS RESPONSE PROGRAM (UXO 28). WORK IN THE PROJECT AREA WILL REQUIRE UXO CONSTRUCTION SUPPORT TO BE PROVIDED THROUGH THE ENVIRONMENTAL MANAGEMENT DEPARTMENT. 3R UXO SAFETY AWARENESS TRAINING IS REQUIRED FOR ALL CONSTRUCTION PERSONNEL. 3R SAFETY AWARENESS TRAINING IS AVAILABLE ONLINE AT THE FOLLOWING LINK:
<a href="http://www.lejeune.marines.mil/Offices–Staff/Environmental–Mgmt/Training–Video/">http://www.lejeune.marines.mil/Offices–Staff/Environmental–Mgmt/Training–Video/</a>
DOCUMENTATION SHOWING SATISFACTORY COMPLETION OF THE REQUIRED UXO SAFETY AWARENESS TRAINING FOR ALL PERSONNEL SHALL BE SUBMITTED TO THE ENVIRONMENTAL MANAGEMENT DEPARTMENT THROUGH THE CONTRACTING OFFICER A MINIMUM OF 30 DAYS PRIOR TO STARTING ANY ON–SITE PROJECT WORK. DOCUMENTATION OF TRAINING COMPLETION SHALL BE MAINTAINED ON SITE FOR ALL PROJECT PERSONNEL AT ALL TIMES.
POINT OF CONTACT FOR UXO INFORMATION IS KIRSTEN HIORTDAHL, EMD, 910–451–5878.

CONTRACTOR SITE INSPECTION REQUIREMENTS:
THE NPDES CONSTRUCTION PERMIT REQUIRES EROSION CONTROL DEVICES AND STORM WATER OUTFALLS BE INSPECTED WEEKLY (EVERY 7 CALENDAR DAYS) AND WITHIN 24 HRS OF A .5 INCH RAIN EVENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT THESE INSPECTIONS AND MAINTAIN RECORDS UNTIL THE AREA HAS STABILIZED, EVIDENT BY 95% VEGETATIVE GROWTH FOR AREAS PROVIDED SEEDING. TO FACILITATE RAINFALL MONITORING A RAIN GAUGE IS REQUIRED TO BE ON SITE. ADDITIONALLY THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING "SELF INSPECTIONS" INDICATING THE DATE BMPs ARE INSTALLED AND STABILIZATION MEASURES (SEEDING/MULCHING OR SOD) ARE INITIATED. THE "SELF INSPECTION" REPORTS WILL BE MAINTAINED ALONG WITH THE "NPDES" INSPECTION REPORTS. ONCE STABILIZATION HAS BEEN ACCOMPLISHED INSPECTION RECORDS ARE TO BE FORWARDED TO EAD AND ALL TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH ALL PERMITS AND PLANS, ANY CHANGES WILL BE APPROVED BY THE STATE PRIOR TO EXECUTION. A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLAN, LETTER OF APPROVAL, AND NPDES CONSTRUCTION PERMIT WILL BE MAINTAINED BY THE CONTRACTOR AT THE ONSITE OFFICE. IF SOIL IS REMOVED FROM OR BROUGHT ONSITE, THE APPLICABLE SOLID WASTE MANAGEMENT PERMIT NUMBER, EROSION SEDIMENTATION PERMIT NUMBER OR MINE PERMIT NUMBER WILL BE DISCLOSED.

SPECIAL SEEDING NOTE:
TEMPORARY: ALL DENUDED AREAS WILL, WITHIN 7 DAYS OF STOPPING GRADING ACTIVITIES AT ANY PHASE OF CONSTRUCTION, BE PLANTED AND PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
PERMANENT: ALL DENUDED AREAS WILL, WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION, BE PROVIDED PERMANENT GROUND COVER.

EROSION CONTROL NOTES:
SCHEDULE OF EROSION AND SEDIMENTATION CONTROL ACTIVITIES
1. INSTALL GRAVEL CONTROL ENTRANCE AT DESIGNATED PROJECT ENTRANCE.
2. INSTALL SILT FENCING AND CHECK DAMS AS INDICATED.
3. CONSTRUCT SITE IMPROVEMENTS.
4. STABILIZE AND SOD ALL AREAS NOT TO BE FURTHER DISTURBED BY CONSTRUCTION ACTIVITIES PER THE VEGETATION PLAN AND STATED TIME CONSTRAINTS.
5. INSTALL SOD TO ESTABLISH FINAL VEGETATION.
6. ADDITIONAL MISCELLANEOUS EROSION CONTROL MEASURES MAY BE REQUIRED WHEN DEEMED NECESSARY BY THE CONTRACTING OFFICER OR CONTRACTOR.
7. REMOVE SILT FENCING, GRAVEL CONTROL ENTRANCE AND CHECK DAMS ONCE VEGETATION IS 95% ESTABLISHED.








































MAINTENANCE PLAN
1. ALL EROSION AND SEDIMENTATION CONTROL DEVICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF–PRODUCING RAINFALL EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL DEVICES IN THE OPERATIONAL CONDITIONS INTENDED.
2. ALL AREAS WILL BE STABILIZED IN ACCORDANCE TO THE PROJECT SPECIFICATIONS AND THE VEGETATION PLAN IN ORDER TO ESTABLISH AND MAINTAIN A STABLE GROUND COVER. ANY SEDIMENT TRACKED ONTO THE ADJACENT ASPHALT ROAD SHALL BE REMOVED ON A DAILY BASIS.
3. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCING AND CHECK DAMS PRIOR TO THE SEDIMENT ACCUMULATING TO A MAXIMUM DEPTH OF SIX INCHES.

NOTE:
1. ALL FILL MATERIAL NEEDED TO EXECUTE THIS PROJECT MUST BE OBTAINED FROM A PROPERLY PERMITTED COMMERCIAL BORROW PIT AT THE CONTRACTOR'S OWN EXPENSE.
2. NO WETLAND AREAS ARE LOCATED WITHIN THE PROJECT LIMITS OF DISTURBANCE.
3. NO SURFACE WATERS ARE LOCATED WITHIN THE LIMITS OF DISTURBANCE.

NOTE:
PROJECT DRAINS TO: NEW RIVER SURFACE WATER CLASSIFICATION: SC, NSW STREAM INDEX: 19–(15.5)



TOTAL LIMITS OF DISTURBANCE 84,130 SF, 1.93 ACRES
--

REVISIONS			
SYM		DATE	APPROVED

CIVIL LEGEND		
EXISTING	DESCRIPTION	NEW
	WATER VALVE	
	TELECOMMUNICATIONS MANHOLE	
	SANITARY SEWER MANHOLE	
	STORM DRAIN MANHOLE	
	CLEANOUT	
	STORM DRAIN DROP INLET	
	FIRE HYDRANT	
	COMMUNICATIONS PEDESTAL	
	UTILITY POLE/POLE WITH LIGHT	
	GUY WIRE	
	DITCH/SWALE CENTERLINE	
	SANITARY SEWER (GRAVITY)	
	SANITARY SEWER (FORCE MAIN)	
	STORM SEWER	
	DOMESTIC/FIRE WATER	
	UNDERGROUND GAS	
	OVERHEAD ELECTRICAL	
	UNDERGROUND ELECTRICAL	
	UNDERGROUND FIBER OPTIC	
	UNDERGROUND COMMUNICATIONS	
	CONCRETE	
	ASPHALT	
	GRAVEL	
	SURVEY CONTROL POINT	
	SPOT ELEVATIONS	
	CONTOUR LINES	
	SIGN	
	DEMOLITION ITEMS	
	MONITORING WELL	
	TREE	
	TREE LINE / CLEARING LIMIT	

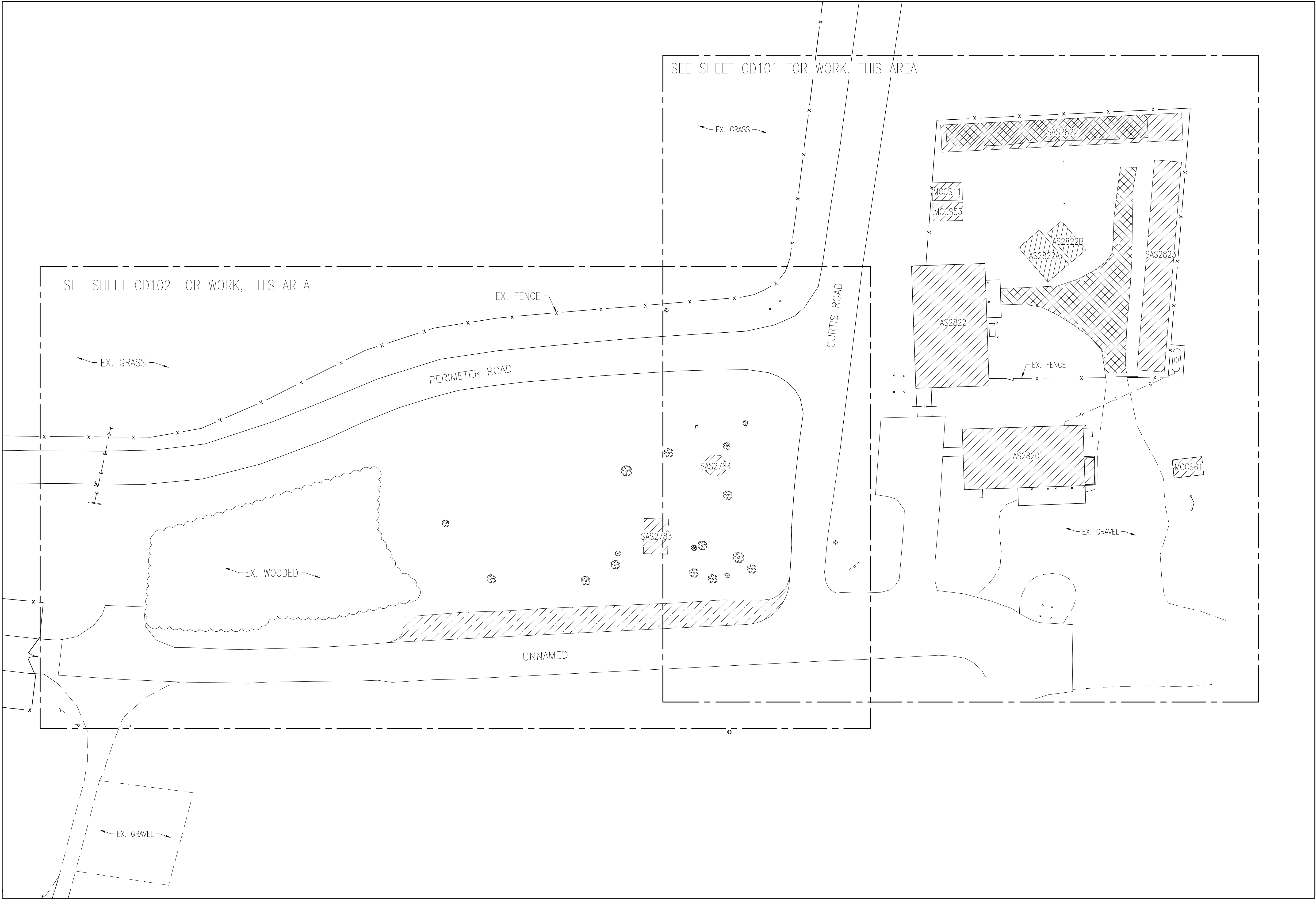
ABBREVIATIONS	
AC	ASBESTOS CEMENT (PIPE)
APPROX.	APPROXIMATE/APPROXIMATELY
CI	CAST IRON (PIPE)
CJ	CONTRACTION JOINT
CNH	COMMUNICATIONS MANHOLE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
DIA, Ø	DIAMETER
DI	(STORM DRAIN) DROP INLET
DI	DUCTILE IRON (PIPE)
DMH	DRAINAGE MANHOLE
EJ	EXPANSION JOINT
EX, EXIST	EXISTING
HOR	HORIZONTAL
HVAC	HEATING VENTILATION AND A/C
INV	INVERT
JBOX	ELECTRIC JUNCTION BOX
LF	LINEAR FOOT/FEET
MAG	MAG NAIL (SURVEY CONTROL)
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
OHE	OVERHEAD ELECTRIC
OC	ON CENTER
OD	OUTSIDE DIAMETER
RCP	REINFORCED CONCRETE PIPE
STA	STATION
SMH	SANITARY SEWER MANHOLE
TBM	TEMPORARY SITE BENCHMARK
TON	TOP OF (VALVE) NUT

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 LICENSE NO. C0708 AVOLIS ENGINEERING, P.A.		C-001	
P.O. BOX 15564 NEW BERN, NC 28561 PH.(252) 633-0068	NRW ENGINEERING, P.C. Consulting Structural Engineers 748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464 Tel: 757-474-0612 Fax: 757-474-0919	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND <b>MARINE CORPS BASE</b> CAMP LEJEUNE, NORTH CAROLINA	
	DES. J. K. AVOLIS, P.E.	CONSTRUCT NEW RIVER MARINA PARKING LOT, MCASNR MARINE CORPS BASE CAMP LEJEUNE CIVIL NOTES AND LEGENDS	
	DR. MSP / WFF		
	CHK. J. C. AVOLIS, P.E.		
	SUBMITTED BY:		
DESIGN DIR. T. H. BURTON, P.E.			
APPROVED: PWO OR OICC	DATE	SIZE: F	CODE IDENT. NO: 80091
SATISFACTORY TO:		DATE	NAVFAC DRAWING NO. 60035405 CONSTR. CONTR. NO. N40085-20-B-0077
		SCALE: NOTED	SPEC: 05-20-0077
		SHEET 02 OF 17	

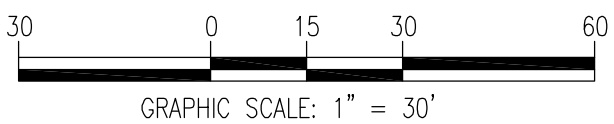
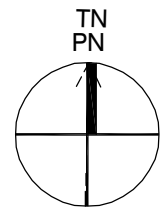


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SYM		DATE	APPROVED



OVERALL SITE PLAN - EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 30'



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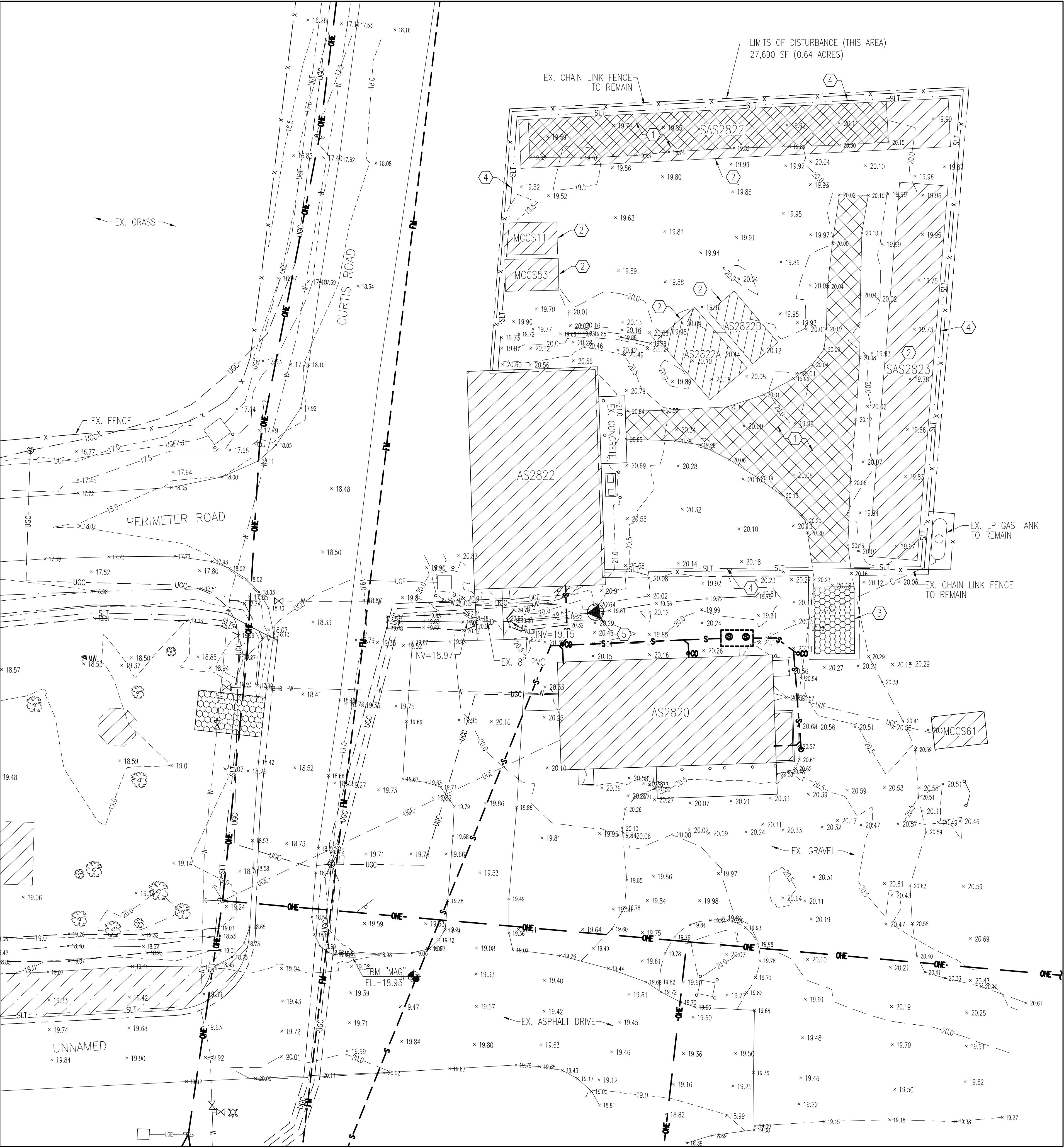
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 LICENSE NO. C0708		<b>CD100</b>		
AVOLIS ENGINEERING, P.A. P.O. BOX 15564 NEW BERN, NC 28561 PH. (252) 633-0068		NRW ENGINEERING, P.C. Consulting Structural Engineers 748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464 Tel. 757-474-0512 Fax 757-474-0919		
 AE PROJECT # 20081		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND <b>MARINE CORPS BASE</b> CAMP LEJEUNE, NORTH CAROLINA		
		CONSTRUCT NEW RIVER MARINA PARKING LOT, MCASNR MARINE CORPS BASE CAMP LEJEUNE OVERALL SITE PLAN - EXISTING CONDITIONS AND DEMOLITION		
		DES. J. K. AVOLIS, P.E. DR. MSP / WFF CHK. J. C. AVOLIS, P.E. SUBMITTED BY: DESIGN DIR. T. H. BURTON, P.E.	APPROVED: PWO OR OICC DATE	SIZE: F CODE IDENT. NO: 80091 NAVFAC DRAWING NO. 60035406 CONSTR. CONTR. NO. N40085-20-B-0077
		SATISFACTORY TO: DATE		SCALE: NOTED SPEC: 05-20-0077 SHEET 03 OF 17

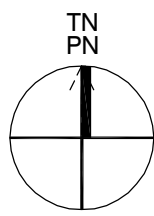


REVISIONS			
SYM		DATE	APPROVED



ENLARGED SITE PLAN - EXISTING CONDITIONS AND DEMOLITION

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.
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. ALL EXISTING VEGETATED AREAS DISTURBED DURING CONSTRUCTION MUST BE VEGETATED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN. SEE DETAIL E, SHEET CG501.

SPECIFIC WORK ITEMS (THIS SHEET):

- ① REMOVE EXISTING GRAVEL AND COMPACTED FILL TO ESTABLISH NEW SUBGRADE ELEVATIONS.
- ② REMOVE EXISTING STRUCTURE. PRESERVE TO REINSTALL AFTER PAVING WORK IS COMPLETE. SEE NOTES THIS SHEET.
- ③ GRAVEL CONTROL ENTRANCE. SEE DETAIL A, SHEET CG501.
- ④ SILT FENCE. SEE DETAIL B, SHEET CG501.
- ⑤ CHECK DAM. SEE DETAIL C, SHEET CG501.

SPECIAL NOTES RELATING TO SHELTER/SHED REMOVAL/REINSTALLATION

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO RELOCATE THE STRUCTURES INDICATED TO AN AREA OUTSIDE THE LIMITS OF WORK TO ALLOW FOR THE INSTALLATION OF THE NEW PAVEMENT SECTION.
2. THE EXISTING STRUCTURES SHALL BE BRACES AND/OR PARTIALLY DISASSEMBLED TO ALLOW FOR THEIR SAFE MOVEMENT. ALL EMBEDDED ANCHORS AND POST SHALL BE PRESERVED AND REINSTALLED AFTER REINSTALLATION ON THE NEW PAVEMENT.
3. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SCREWS OR HARDWARE TO MAKE FOR A COMPLETE REINSTALLATION OF THE STRUCTURES.
4. ALL EMBEDDED ITEMS SUCH AS POST SHALL BE INSTALLED TO MATCH EXISTING. ANY CUTS OR PATCHES IN THE PAVEMENT SHALL BE ALONG STRAIGHT SAWCUT LINES AND SHALL BE PATCHED.
5. THE CONTRACTOR SHALL DOCUMENT THE EXISTING CONDITIONS OF THE SHELTERS PRIOR TO REMOVAL. ANY DAMAGE TO THE SHELTERS CAUSED BY THE CONTRACTORS OPERATIONS SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS.

DISCLOSURE OF INFORMATION

THE CONTRACTOR SHALL COMPLY AS FOLLOWS:

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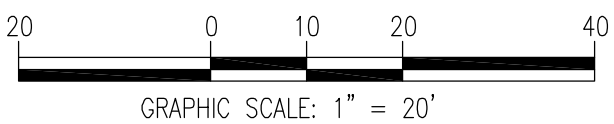
NRW ENGINEERING, P.C.  
Consulting Structural Engineers  
748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464  
Tel: 757-474-0512 Fax: 757-474-0919  
DES. J. K. AVOLIS, P.E.  
DR. MSP / WFF  
CHK. J. C. AVOLIS, P.E.  
SUBMITTED BY:  
DESIGN DIR. T. H. BURTON, P.E.

APPROVED: PWO OR OICC  
SATISFACTORY TO:

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND  
**MARINE CORPS BASE**  
CAMP LEJEUNE, NORTH CAROLINA  
CONSTRUCT NEW RIVER MARINA  
PARKING LOT, MCASNR  
MARINE CORPS BASE CAMP LEJEUNE  
ENLARGED SITE PLAN - EXISTING CONDITIONS AND DEMOLITION

NAVJAC DRAWINGS NO. 60035407  
CONSTR. CONTR. NO. N40085-20-B-0077

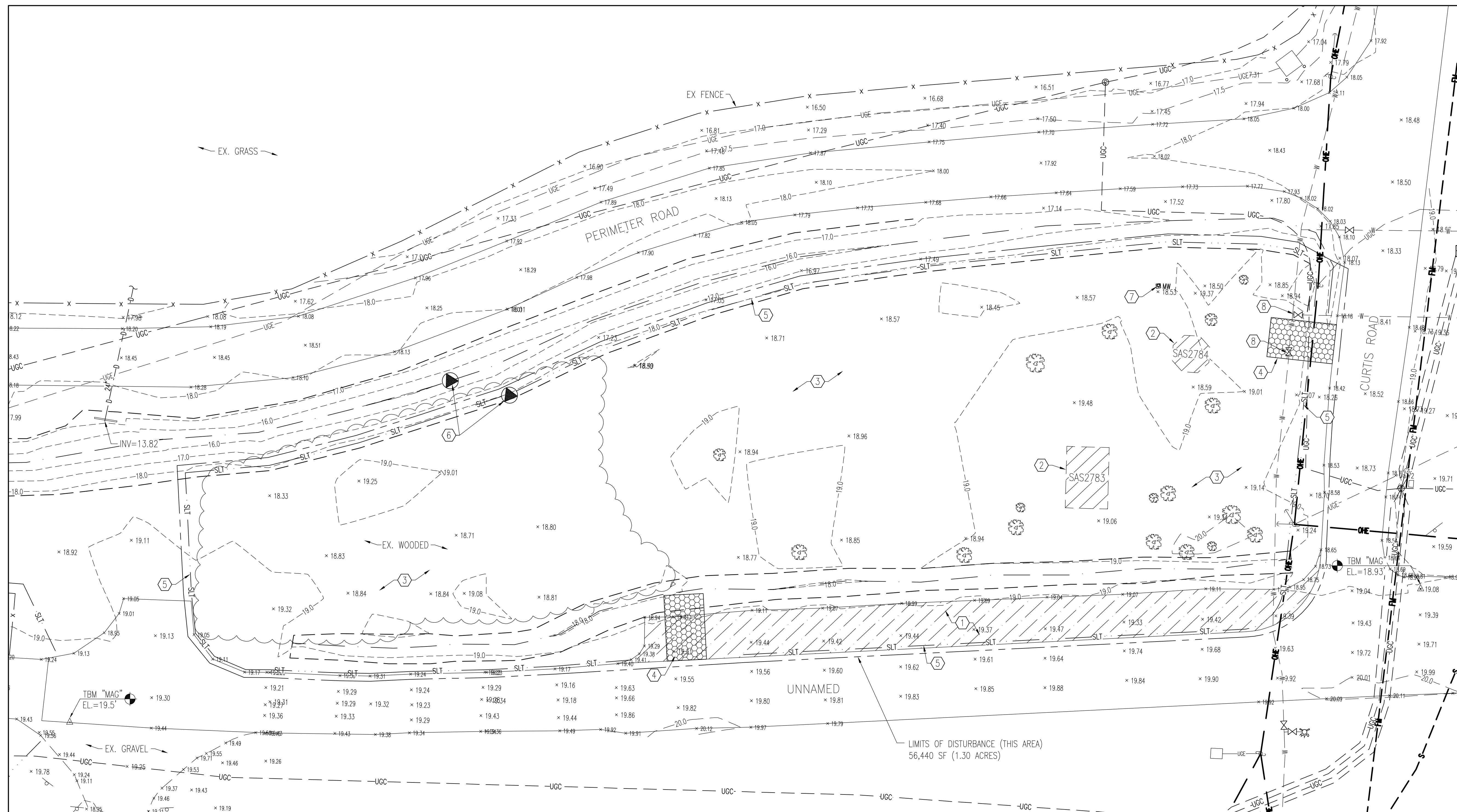
SCALE: NOTED SPEC: 05-20-0077 SHEET 04 OF 17



CD101



REVISIONS			
SYM		DATE	APPROVED



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3. ALL EXISTING VEGETATED AREAS DISTURBED DURING CONSTRUCTION MUST BE REVEGETATED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN. SEE DETAIL E, SHEET CG501.

SPECIFIC WORK ITEMS (THIS SHEET):

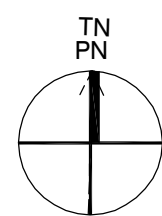
- ① EXISTING ASPHALT AND STONE BASE TO BE REMOVED.
- ② PREVIOUSLY DEMOLISHED STRUCTURE, RELIC FOUNDATION ELEMENTS MAY REMAIN-REMOVE.
- ③ AREA TO BE CLEARED AND GRUBBED.
- ④ GRAVEL CONTROL ENTRANCE. SEE DETAIL A, SHEET CG501.
- ⑤ SILT FENCE. SEE DETAIL B, SHEET CG501.
- ⑥ CHECK DAM. SEE DETAIL C, SHEET CG501.
- ⑦ EXISTING MONITORING WELL TO REMAIN. RESET TOP AND COVER TO BE FLUSH WITH NEW PAVEMENT. COORDINATE ALL WORK WITH ENVIRONMENTAL MANAGEMENT DEPARTMENT THROUGH THE CONTRACTING OFFICER. SEE SPECIAL WELL MODIFICATION NOTES THIS SHEET.
- ⑧ EXISTING WATER VALVE TO REMAIN. ADJUST VALVE BOX TO BE FLUSH WITH NEW PAVEMENT.

## SPECIAL WELL MODIFICATIONS NOTES:

THE MODIFICATIONS TO THE MONITORING WELL COVER SHALL BE MADE IN ACCORDANCE WITH 15A NCAC .0100, SUBCHAPTER 2C "WELL CONSTRUCTION STANDARDS" BY A NORTH CAROLINA REGISTERED WELL CONTRACTOR.

## ENLARGED SITE PLAN - EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 20'



## DISCLOSURE OF INFORMATION

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CD102



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**NRW ENGINEERING, P.C.**  
Consulting Structural Engineers  
748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464  
tel 757-474-0612 fax 757-474-0919

---

DES. J. K. AVOLIS, P.E.

CHK. J. C. AVOLIS, P.E.
SUBMITTED BY:
DESIGNER: T. H. BURTON, P.E.

APPROVED: PWO OR OICC	DATE
SATISFACTORY TO:	DATE

DEPARTMENT OF THE NAVY    NAVAL FACILITIES ENGINEERING COMMAND

**MARINE CORPS BASE**

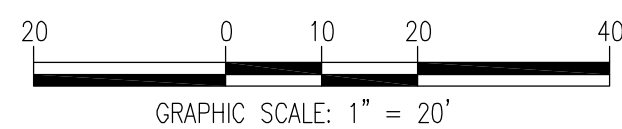
CAMP LEJEUNE, NORTH CAROLINA

**CONSTRUCT NEW RIVER MARINA**

PARKING LOT, MCASNR  
MARINE CORPS BASE CAMP LEJEUNE  
ENLARGED SITE PLAN - EXISTING CONDITIONS AND DEMOLITION

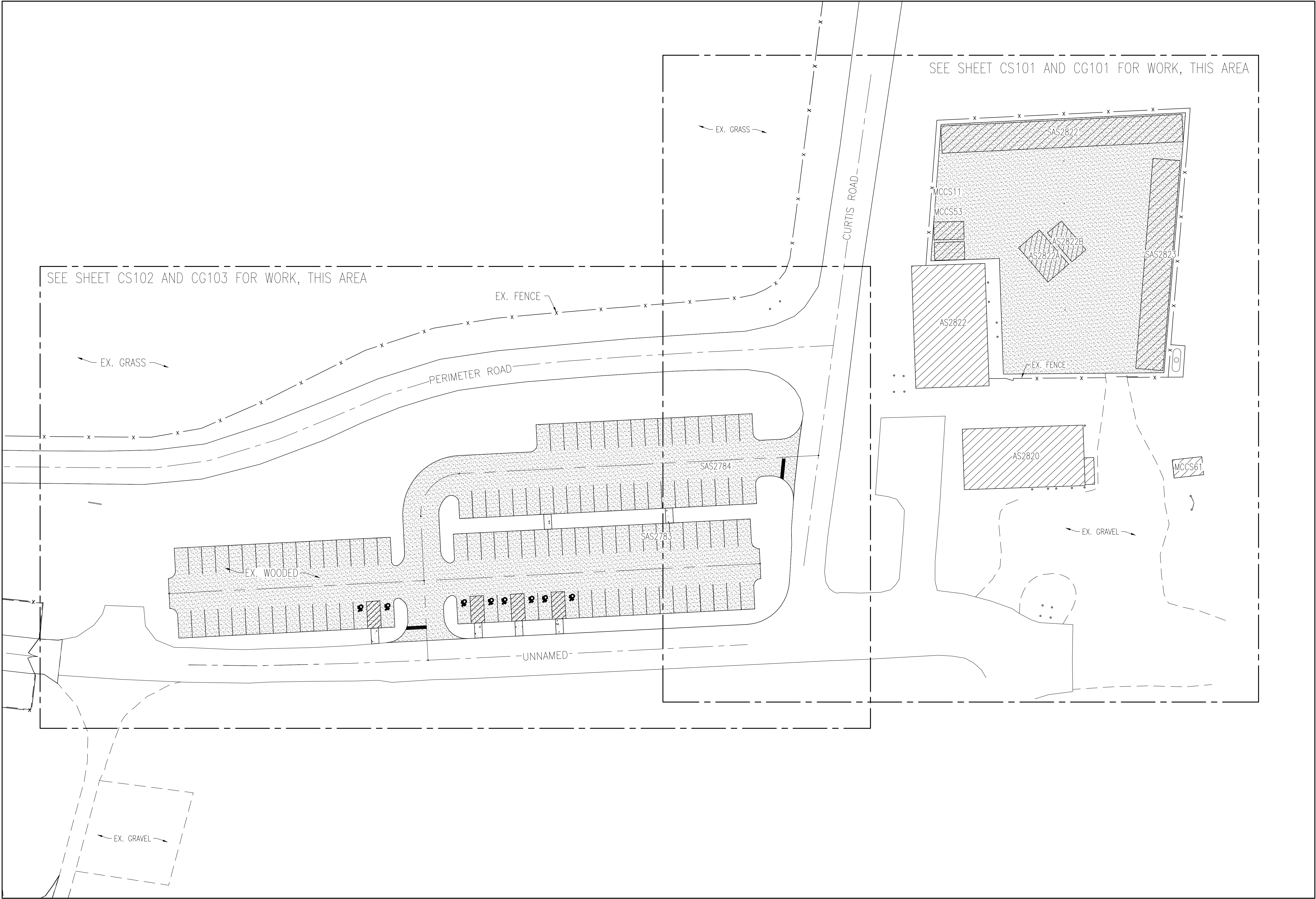
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F	80091	60035408
		CONSTR. CONTR. NO. N40085-20-B-0077

SHEET 05 OF 1



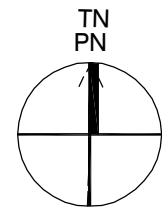


REVISIONS			
SYM		DATE	APPROVED



OVERALL SITE LAYOUT PLAN

SCALE: 1" = 30'



**DISCLOSURE OF INFORMATION**

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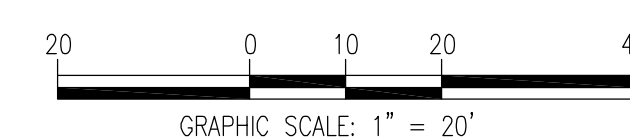
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 LICENSE NO. C0708		<b>CS100</b>	
AVOLIS ENGINEERING, P.A. P.O. BOX 15564 NEW BERN, NC 28561 PH. (252) 633-0068		NRW ENGINEERING, P.C. Consulting Structural Engineers 748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464 Tel. 757-474-0512 Fax 757-474-0919	
		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND <b>MARINE CORPS BASE</b> CAMP LEJEUNE, NORTH CAROLINA	
DES. J. K. AVOLIS, P.E. DR. MSP / WFF CHK. J. C. AVOLIS, P.E. SUBMITTED BY: DESIGN DIR. T. H. BURTON, P.E.		CONSTRUCT NEW RIVER MARINA PARKING LOT, MCASNR MARINE CORPS BASE CAMP LEJEUNE OVERALL SITE LAYOUT PLAN	
APPROVED: PWO OR OICC DATE		SIZE: <b>F</b> CODE IDENT. NO: <b>80091</b>	NAVFAC DRAWING NO. <b>60035409</b>
SATISFACTORY TO: DATE		CONSTR. CONTR. NO. N40085-20-B-0077	SHEET <b>06</b> OF <b>17</b>
GRAPHIC SCALE: 1" = 30'		SCALE: NOTED	SPEC: 05-20-0077



<u>GENERAL CONSTRUCTION NOTES:</u>	
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<u>SPECIFIC WORK ITEMS (THIS SHEET):</u>	
1	ASPHALT PAVEMENT. SEE DETAIL A, SHEET C5501.
2	EXISTING STRUCTURE TO BE REINSTALLED ON NEW PAVEMENT. CONFIRM FINAL LOCATION WITH CONTRACTING OFFICER.



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SPECIFIC WORK ITEMS (THIS SHEET):

- 1 ASPHALT PAVEMENT. SEE DETAIL A, SHEET CS501.
- 2 EXISTING STRUCTURE TO BE REINSTALLED ON NEW PAVEMENT. CONFIRM FINAL LOCATION WITH CONTRACTING OFFICER.

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CS101

The seal is circular with a double-lined border. The outer ring contains the text "NORTH CAROLINA" at the top and "PROFESSIONAL" at the bottom. The inner circle contains the text "SEAL" at the top, "15738" in the center, "ENGINEER" at the bottom, and "JOHN K. AVOL, II" at the very bottom. A red handwritten date "08-25-2021" is written across the center of the seal.


LICENSE NO. C-0706

AVOLIS ENGINEERING, P.A.

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

The seal is circular with a double-lined border. The outer ring contains the text "NORTH CAROLINA" at the top and "PROFESSIONAL" at the bottom. The inner circle contains the text "SEAL" at the top, "15738" in the center, "ENGINEER" at the bottom, and "JOHN K. AVOL, II" at the very bottom. A red handwritten date "08-25-2021" is written across the center of the seal.

AE PROJECT # 200

	<p><b>NRW ENGINEERING, P.C.</b>  <b>Consulting Structural Engineers</b>          748 Lord Dunmore Dr. #101, Virginia Beach, VA 23464          Tel. 757-474-5815 Fax 757-474-0919</p>	
A.	<p><b>DES. J. K. AVOLIS, P.E.</b></p>	
	<p><b>DR. MSP / WFF</b></p>	
	<p><b>CHK. J. C. AVOLIS, P.E.</b></p>	
	<p><b>SUBMITTED BY:</b></p>	
	<p><b>DESIGN DIR. T. H. BURTON, P.E.</b></p>	
	<p><b>APPROVED: PWO OR CICC</b></p>	<p><b>DATE</b></p>
	<p><b>SATISFACTORY TO:</b></p>	<p><b>DATE</b></p>

		CS101	
DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND			
MARINE CORPS BASE			
CAMP LEJEUNE, NORTH CAROLINA			
CONSTRUCT NEW RIVER MARINA PARKING LOT, MCASNR			
MARINE CORPS BASE CAMP LEJEUNE			
ENLARGED SITE LAYOUT PLAN			
SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.	
F	80091	60035410	
		CONSTR. CONTR. NO. 140085-20-B-0077	
SCALE: NOTED	SPEC.	05-20-077	SHEET 07 OF 17



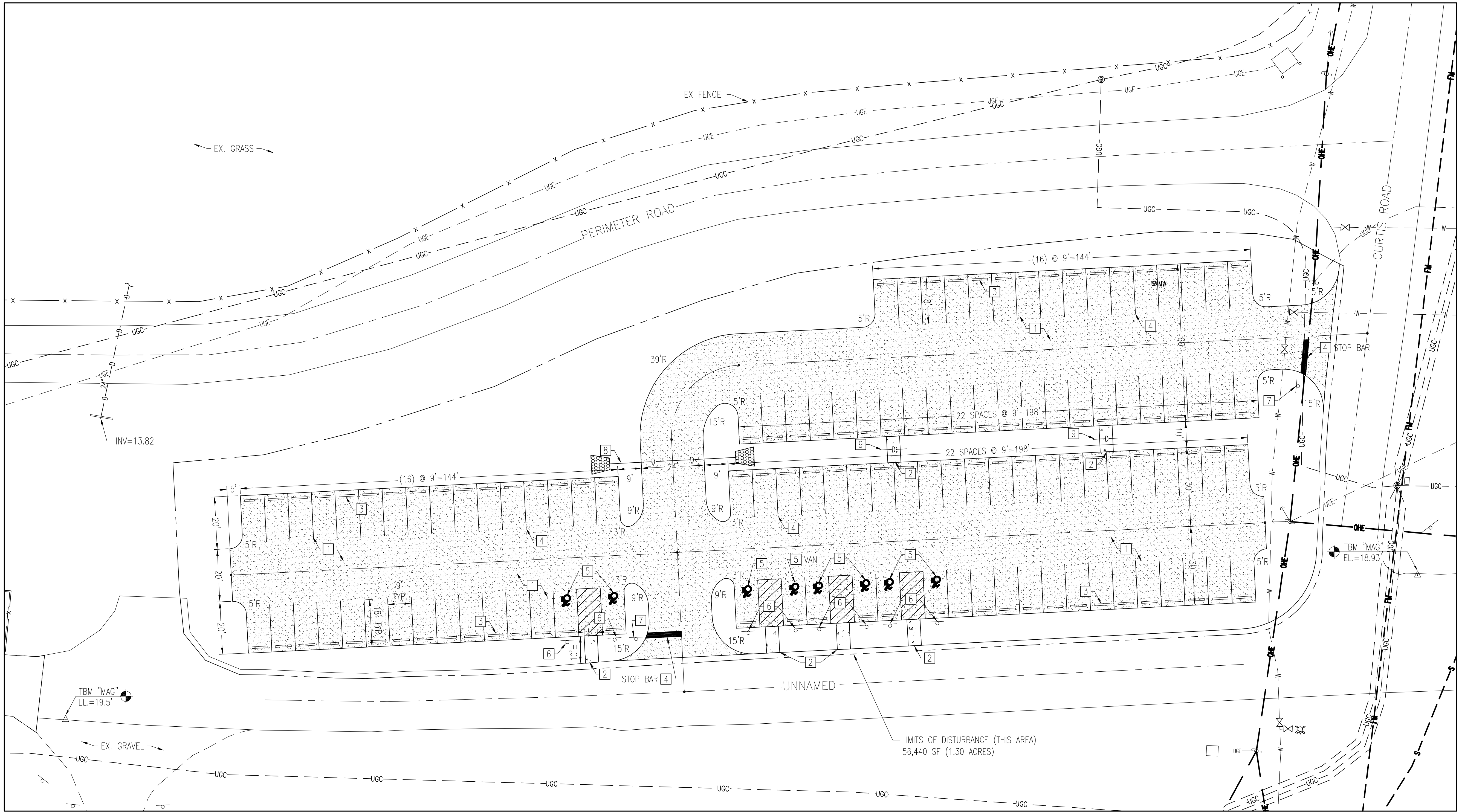
REVISIONS			
SYM		DATE	APPROVED

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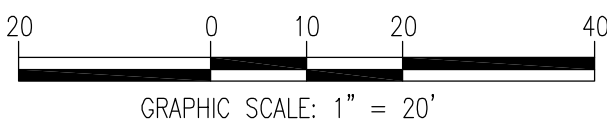
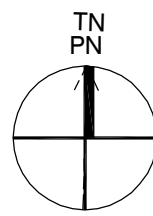
- 1 ASPHALT PAVEMENT. SEE DETAIL A, SHEET CS501.
- 2 CONCRETE SIDEWALK. SEE DETAIL B, SHEET CS501.
- 3 CONCRETE WHEEL STOP (TYPICAL ALL SPACES). SEE DETAIL C, SHEET CS501.
- 4 PAVEMENT MARKINGS. SEE DETAIL D, SHEET CS501.
- 5 ACCESSIBLE PAVEMENT MARKINGS. SEE DETAIL D, SHEET CS501.
- 6 ACCESSIBLE SIGN, TYPE AS INDICATED. SEE DETAIL E, SHEET CS501.
- 7 STOP SIGN. SEE DETAIL E, SHEET CS501.
- 8 INSTALL 32LF± 15" RCP AND (2) FLARED END SECTIONS.
- 9 INSTALL 8LF± 15" RCP AND (2) FLARED END SECTIONS.

32LF? (MEASURES 48)  
\*\*CHANGED TO 48LF -EH



ENLARGED SITE LAYOUT PLAN

SCALE: 1" = 20'



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DR. MSP / WFF  
CHK. J. C. AVOLIS, P.E.  
SUBMITTED BY:  
DESIGN DIR. T. H. BURTON, P.E.

APPROVED: PWO OR OICC  
DATE

SATISFACTORY TO: DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND  
**MARINE CORPS BASE**  
CAMP LEJEUNE, NORTH CAROLINA  
**CONSTRUCT NEW RIVER MARINA  
PARKING LOT, MCASNR  
MARINE CORPS BASE CAMP LEJEUNE  
ENLARGED SITE LAYOUT PLAN**

SIZE: F  
CODE IDENT. NO: 80091  
NAVFAC DRAWING NO. 60035411  
CONSTR. CONTR. NO. N40085-20-B-0077

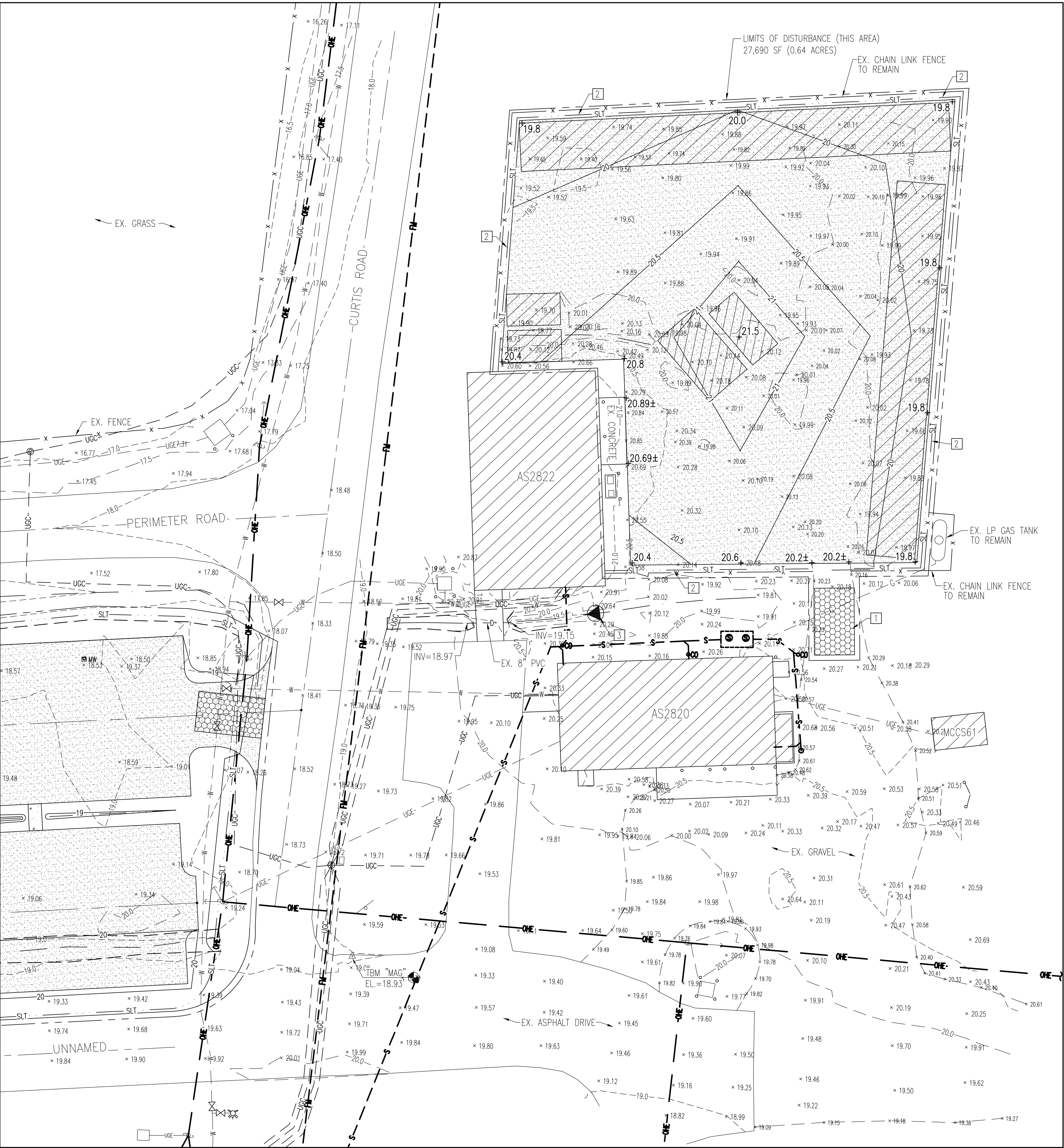
SCALE: NOTED SPEC: 05-20-0077

CS102

SHEET 08 OF 17



REVISIONS			
SYM		DATE	APPROVED



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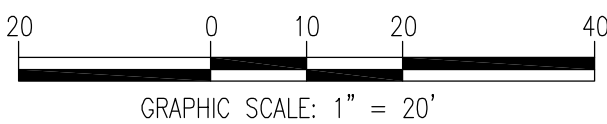
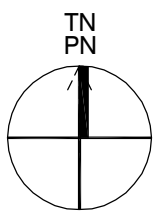
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ENLARGED SITE GRADING PLAN

SCALE: 1" = 20'



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



NRW ENGINEERING, P.C.  
Consulting Structural Engineers  
748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464  
Tel. 757-474-0512 Fax 757-474-0919  
DES. J. K. AVOLIS, P.E.  
DR. MSP / WFF  
CHK. J. C. AVOLIS, P.E.  
SUBMITTED BY:  
DESIGN DIR. T. H. BURTON, P.E.

APPROVED: PWO OR OICC  
DATE

SATISFACTORY TO:

SIZE: F  
CODE IDENT. NO: 80091

SCALE: NOTED SPEC: 05-20-0077

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND  
**MARINE CORPS BASE**  
CAMP LEJEUNE, NORTH CAROLINA  
**CONSTRUCT NEW RIVER MARINA  
PARKING LOT, MCASN  
MARINE CORPS BASE CAMP LEJEUNE**  
**ENLARGED SITE GRADING PLAN**

NAVFAC DRAWING NO.  
60035412  
CONSTR. CONTR. NO. N40085-20-B-0077

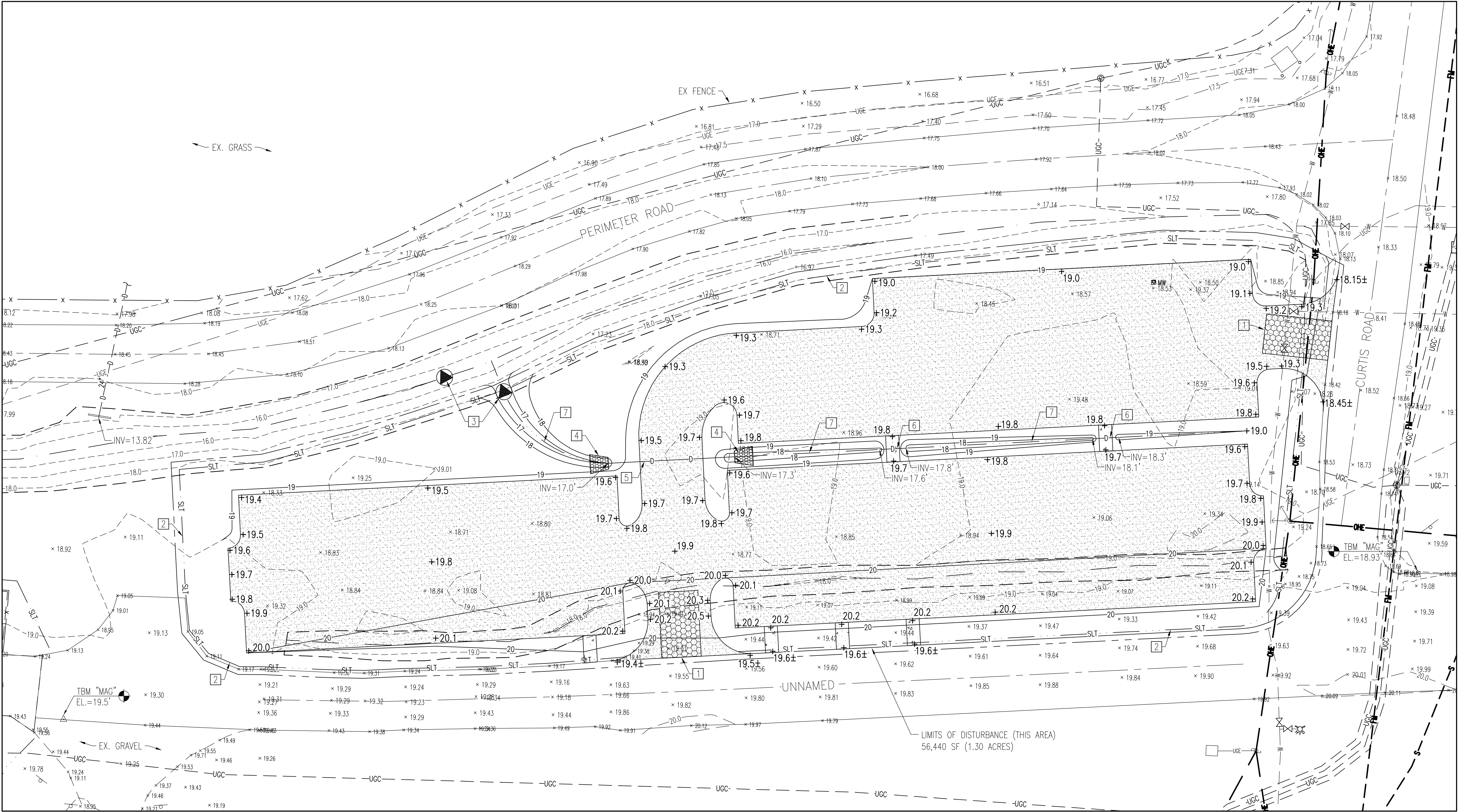
SHEET 09 OF 17

CG101



REVISIONS			
SYM		DATE	APPROVED

- GENERAL CONSTRUCTION NOTES:
- 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.
  - PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.
  - ALL EXISTING VEGETATED AREAS DISTURBED DURING CONSTRUCTION MUST BE REVEGETATED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN. SEE DETAIL C, SHEET CG501.
- SPECIFIC WORK ITEMS (THIS SHEET):
- GRAVEL CONTROL ENTRANCE. SEE DETAIL A, SHEET CG501.
  - SILT FENCE. SEE DETAIL B, SHEET CG501.
  - CHECK DAM. SEE DETAIL C, SHEET CG501.
  - INLET PROTECTION. SEE DETAIL D, SHEET CG501.
  - INSTALL 32LF± 15" RCP AND (2) FLARED END SECTIONS.
  - INSTALL 8LF± 15" RCP AND (2) FLARED END SECTIONS.
  - INSTALL VEGETATED SWALE. SEE DETAIL F, SHEET CG501.



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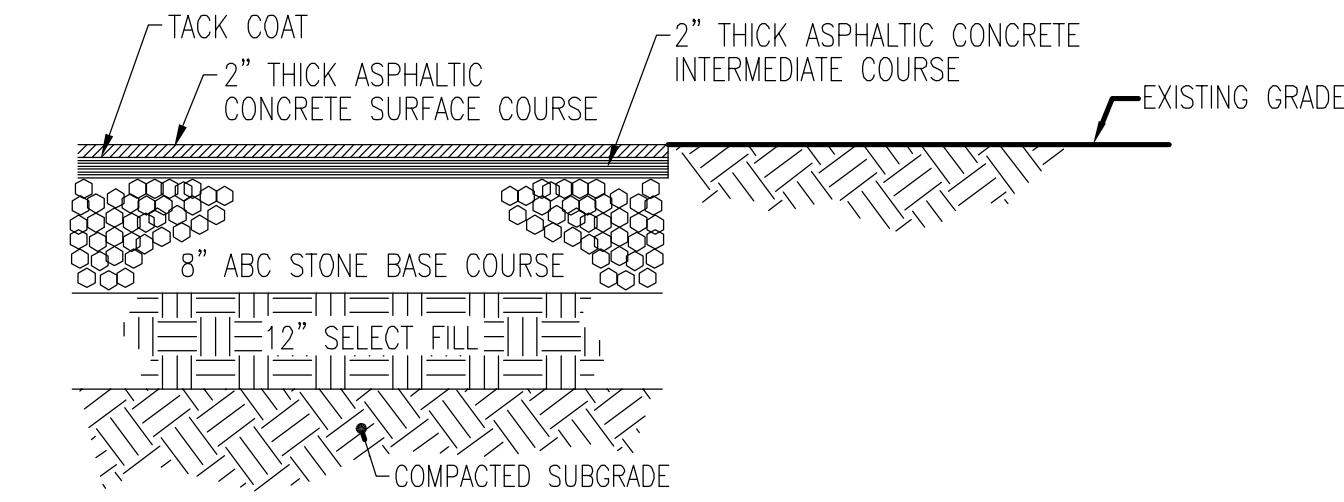
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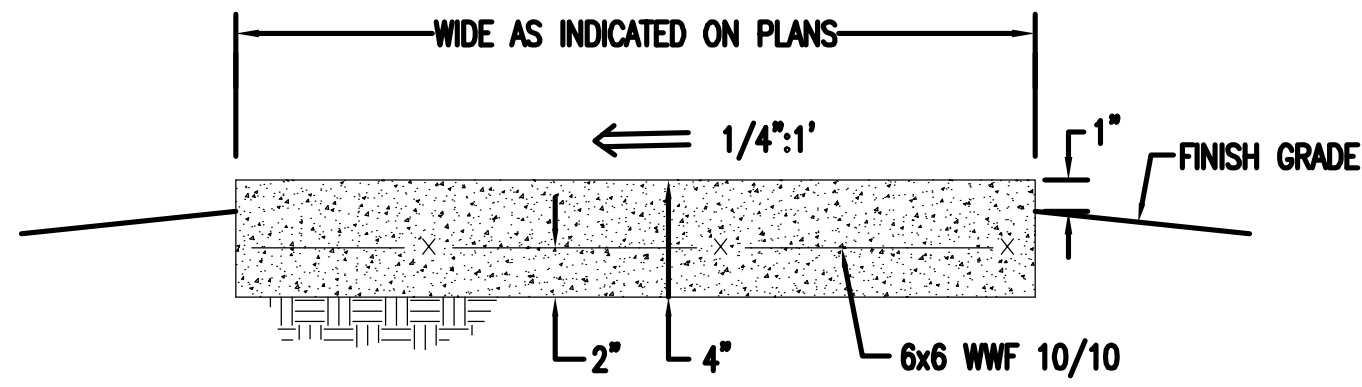
<b>AE</b> AVOLIS ENGINEERING, P.A. P.O. BOX 15564 NEW BERN, NC 28561 PH. (252) 633-0068		<b>CG102</b>	
NRW ENGINEERING, P.C. Consulting Structural Engineers 748 Lord Dunmore Dr., #101, Virginia Beach, VA 23464 Tel. 757-474-0512 Fax 757-474-0919		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND <b>MARINE CORPS BASE</b> CAMP LEJEUNE, NORTH CAROLINA	
DES. J. K. AVOLIS, P.E. DR. MSP / WFF CHK. J. C. AVOLIS, P.E. SUBMITTED BY: DESIGN DIR. T. H. BURTON, P.E.		CONSTRUCT NEW RIVER MARINA PARKING LOT, MCASNR MARINE CORPS BASE CAMP LEJEUNE ENLARGED SITE GRADING PLAN	
APPROVED: PWO OR OICC SATISFACTORY TO:		DATE	NAVFAC DRAWING NO. 60035413 CONSTR. CONTR. NO. N40085-20-B-0077
SIZE: <b>F</b> 80091		CODE IDENT. NO.	SCALE: NOTED SPEC: 05-20-0077
GRAPHIC SCALE: 1" = 20'		SHEET 10 OF 17	



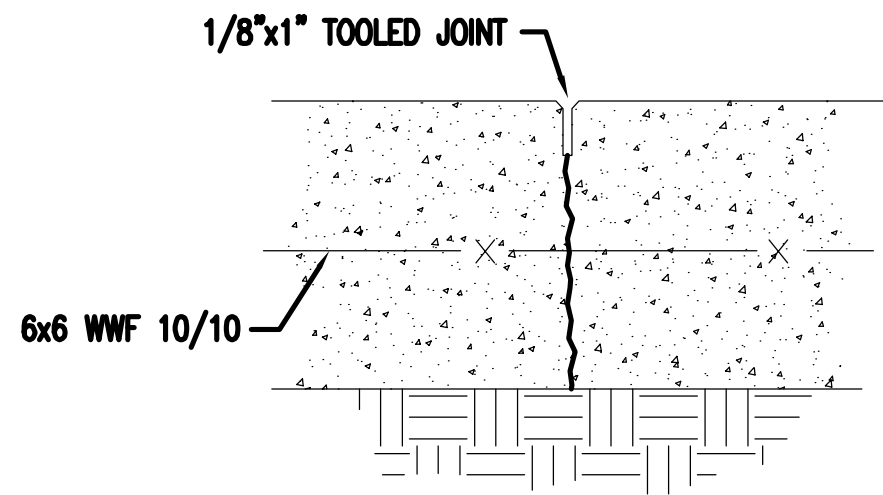
REVISIONS			
SYM		DATE	APPROVED



**A** ASPHALT PAVEMENT SECTION  
NOT TO SCALE



SECTION

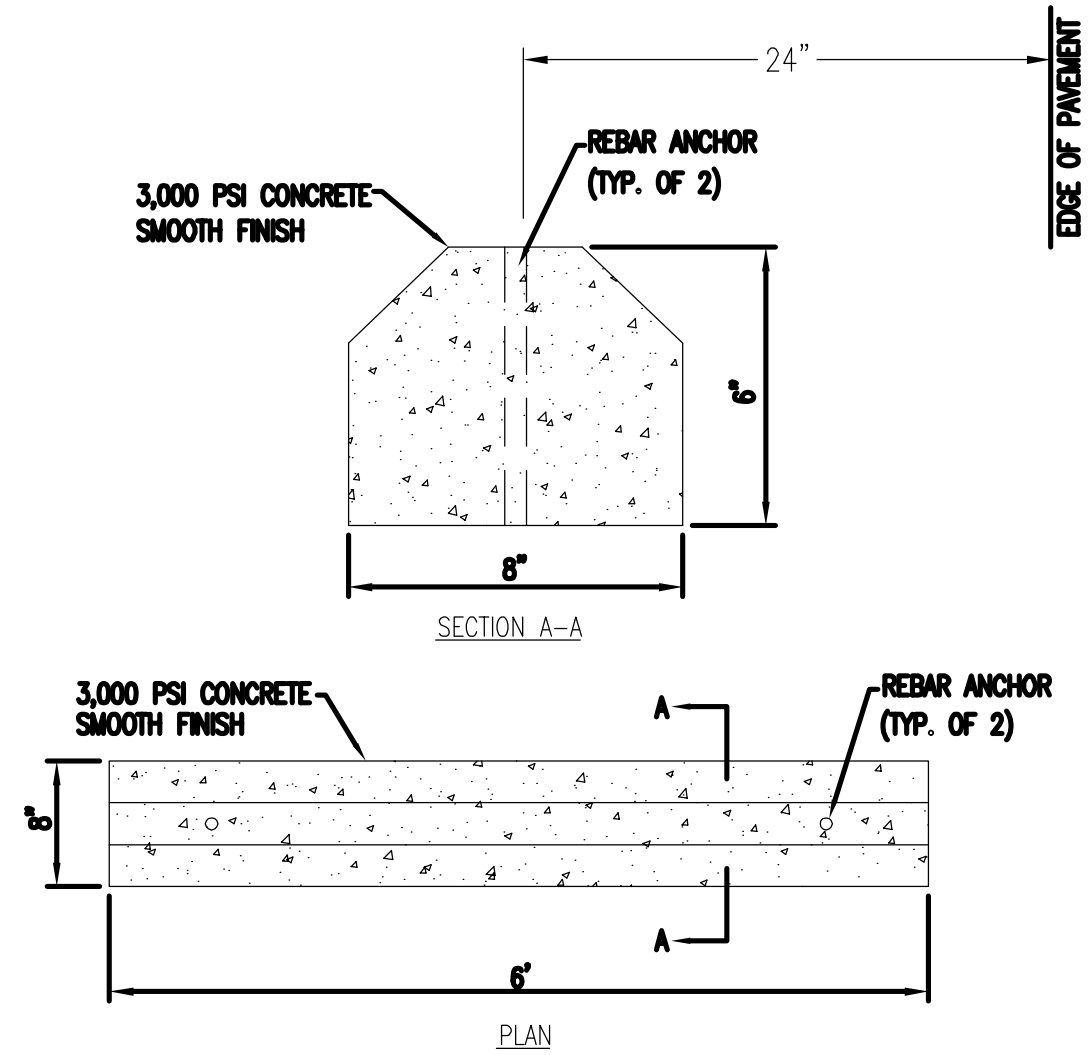


CONTRACTION JOINT (CJ)

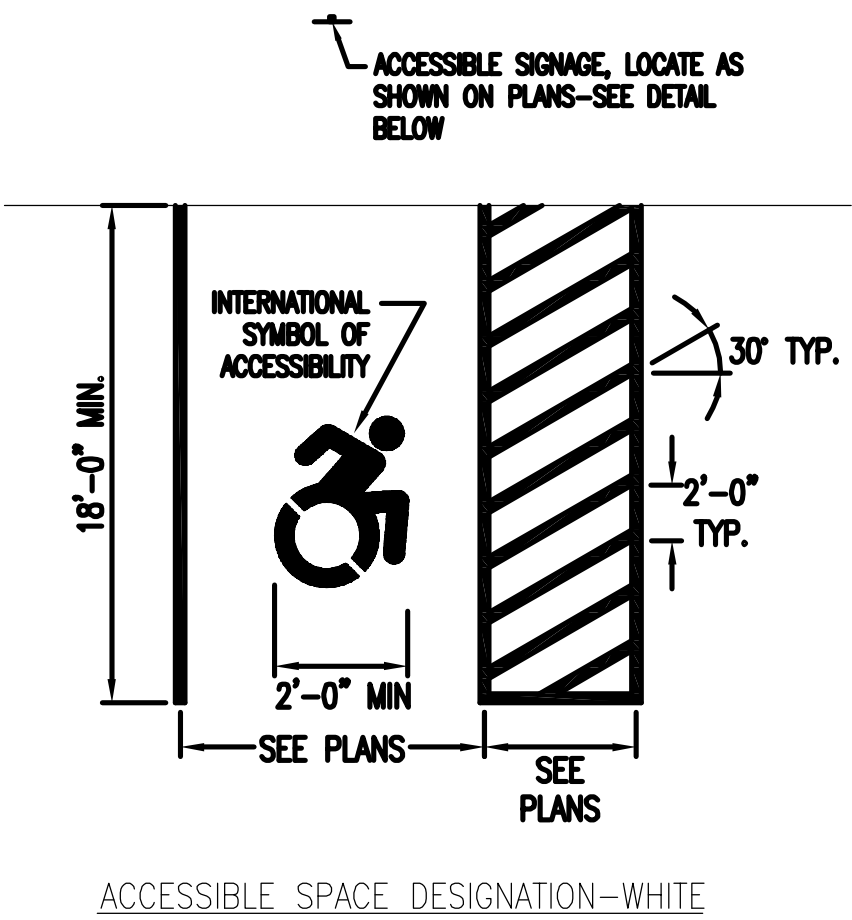
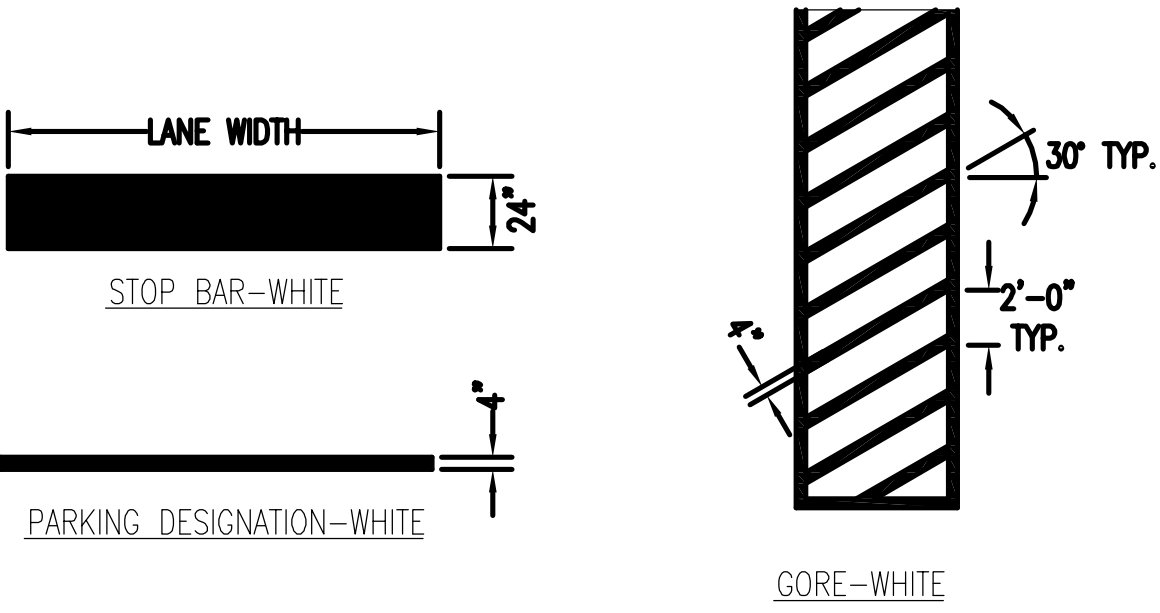
NOTES:

1. PROVIDE EXPANSION JOINTS ALONG ALL EXISTING STRUCTURES AND WALKS AND AT 20' INTERVALS ALONG STRAIGHT SECTIONS OF WALK.
2. PROVIDE TOOLED CONTRACTION JOINTS AT 5'-0" INTERVALS AND AT ALL CHANGES IN DIRECTION OF WALK. TOOLED CONTRACTION JOINTS SHALL BE 1/8" WIDE X 3/4" DEEP.
3. SUBGRADE SHALL BE WETTED IMMEDIATELY PRIOR TO PLACING CONCRETE, OR PROVIDE POLYETHYLENE SHEETING ON GROUND SURFACE BELOW CONCRETE.
4. PROVIDE FLOATED SURFACE WITH LIGHT BROOM FINISH.
5. PROTECT WORK IN PLACE FROM VANDALISM, GRAFFITI, ETC. UNTIL CONCRETE IS SUFFICIENTLY DRY.

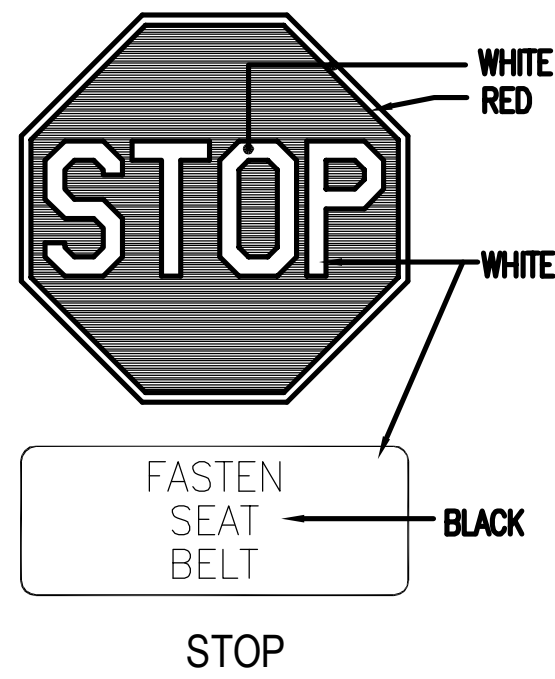
**B** CONCRETE SIDEWALK  
NOT TO SCALE



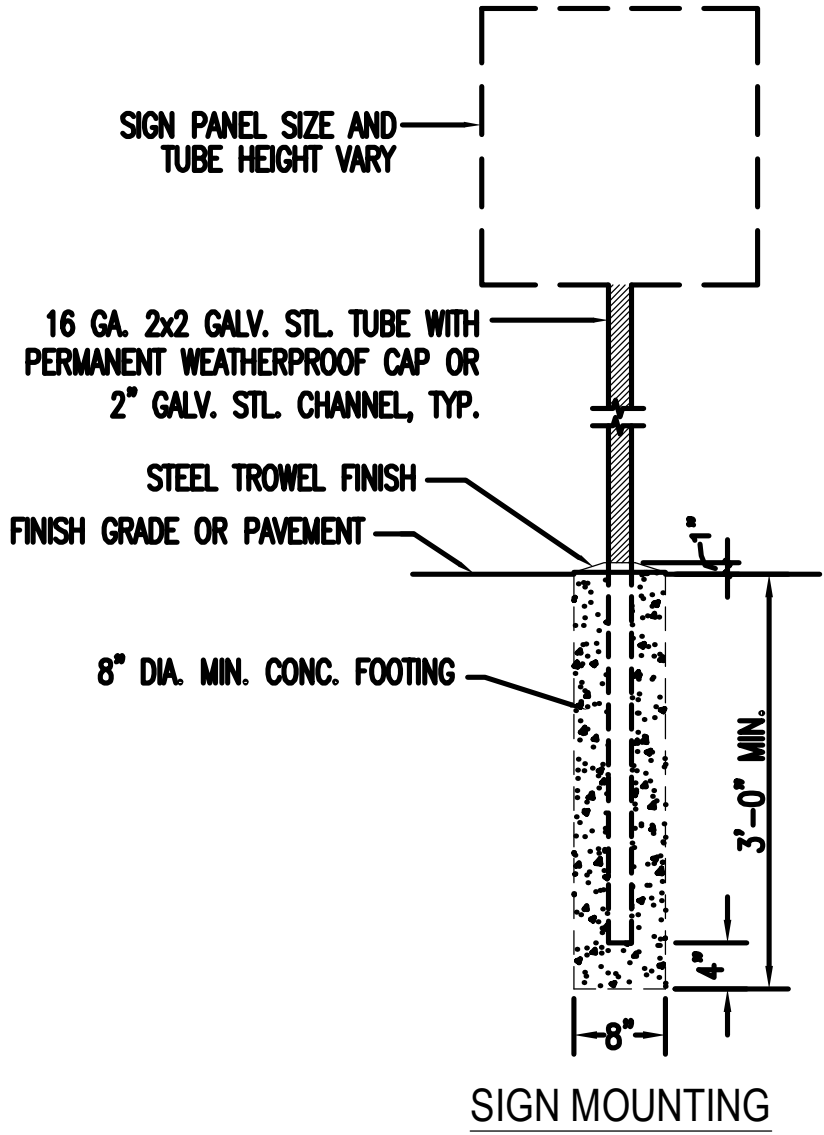
**C** WHEEL STOP  
NOT TO SCALE



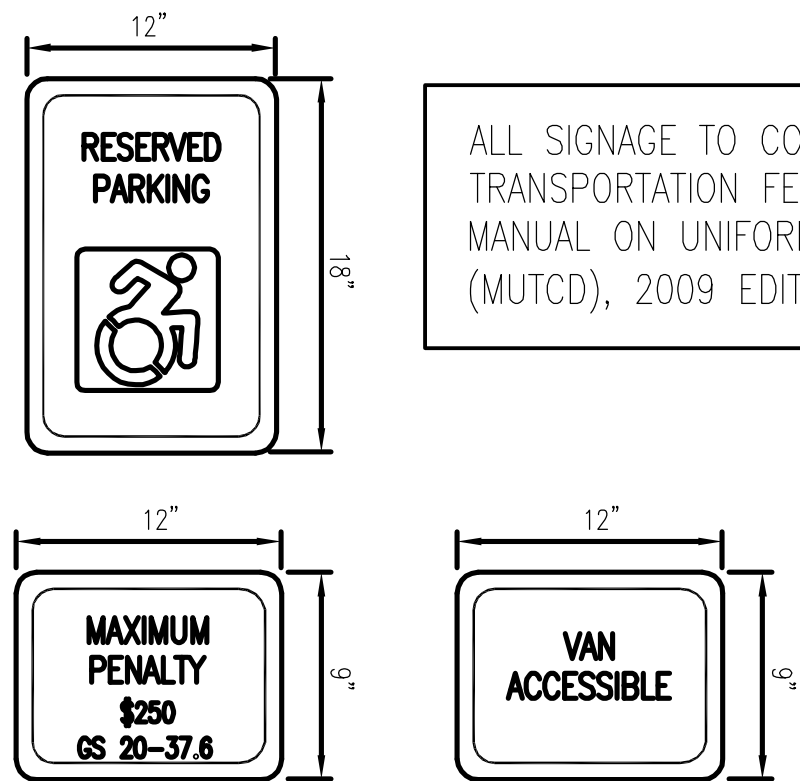
**D** PAVEMENT MARKINGS  
NOT TO SCALE



ALL SIGNAGE TO CONFORM TO US DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION (OR CURRENT IF NEWER).



SIGN MOUNTING



- NOTES:
1. COLORS  
BACKGROUND: WHITE  
LEGEND AND BORDER: GREEN  
WHITE SYMBOL ON BLUE BACKGROUND
  2. MOUNT THE SIGN 60" ABOVE GRADE.



HANDICAP SPACE SIGNAGE

**E** SIGNAGE  
NOT TO SCALE

DISCLOSURE OF INFORMATION

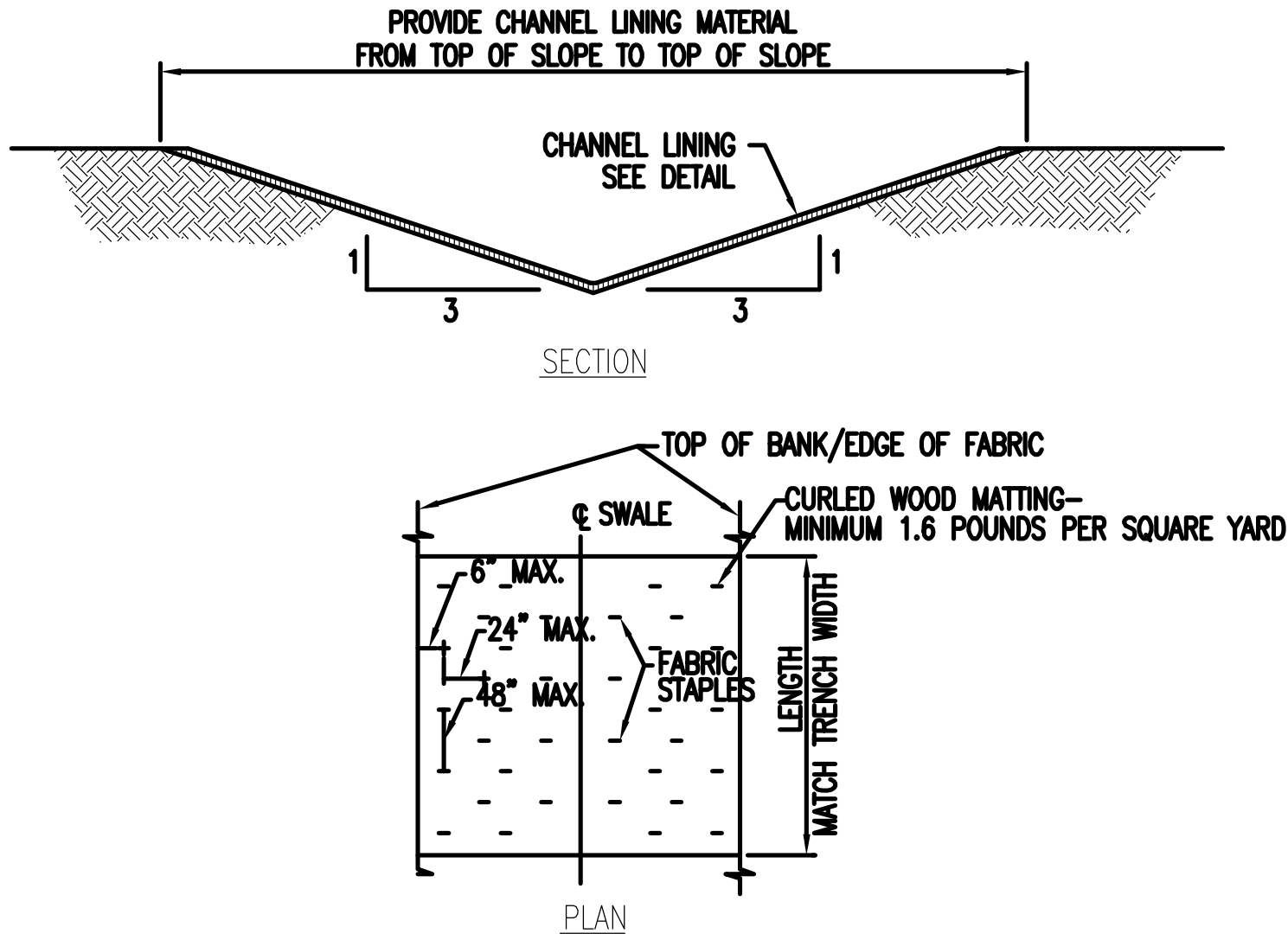
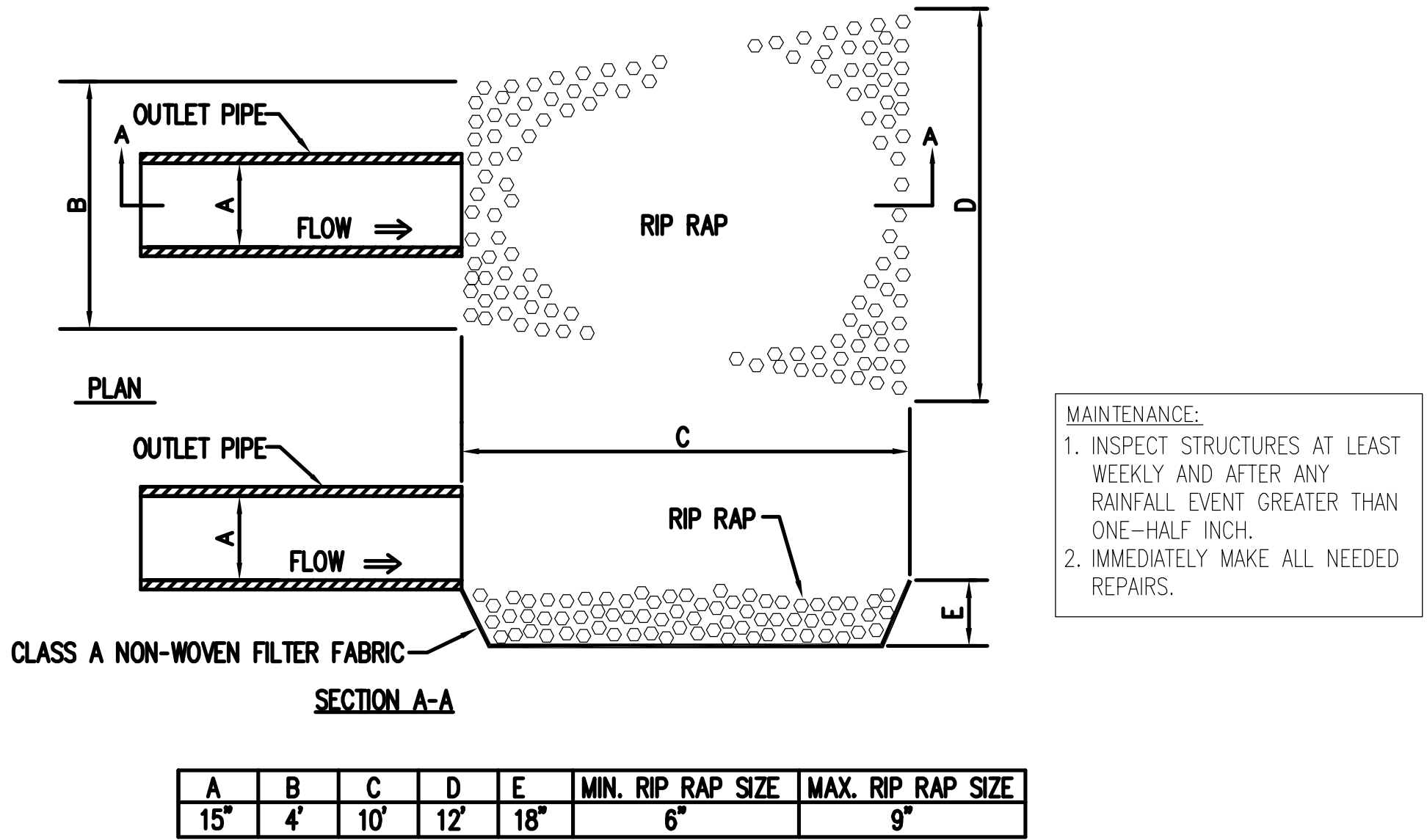
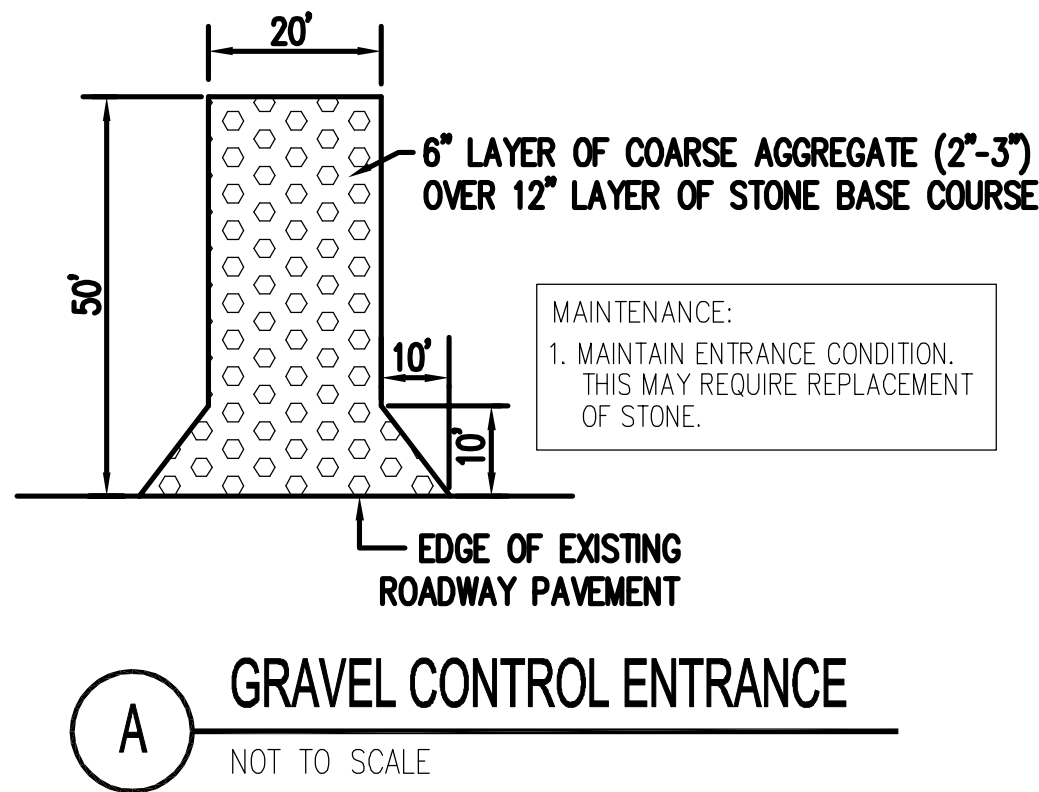
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 AE PROJECT # 20014	DES. J. K. AVOLIS, P.E.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND <h2>MARINE CORPS BASE</h2> CAMP LEJEUNE, NORTH CAROLINA  CONSTRUCT NEW RIVER MARINA PARKING LOT, MCASNR  MARINE CORPS BASE CAMP LEJEUNE  DETAILS		
	DR. MSP / WFF				
	CHK. J. C. AVOLIS, P.E.				
	SUBMITTED BY:				
	DESIGN DIR. T. H. BURTON, P.E.				
APPROVED: PWO OR OICC		DATE	SIZE	CODE IDENT. NO	NAVFAC DRAWING NO. 60035414
SATISFACTORY TO:		DATE	F	80091	CONSTR. CONTR. NO. N40085-20-B-0077
			SCALE: NOTED	SPEC. 05-20-0077	SHEET 11 OF 17

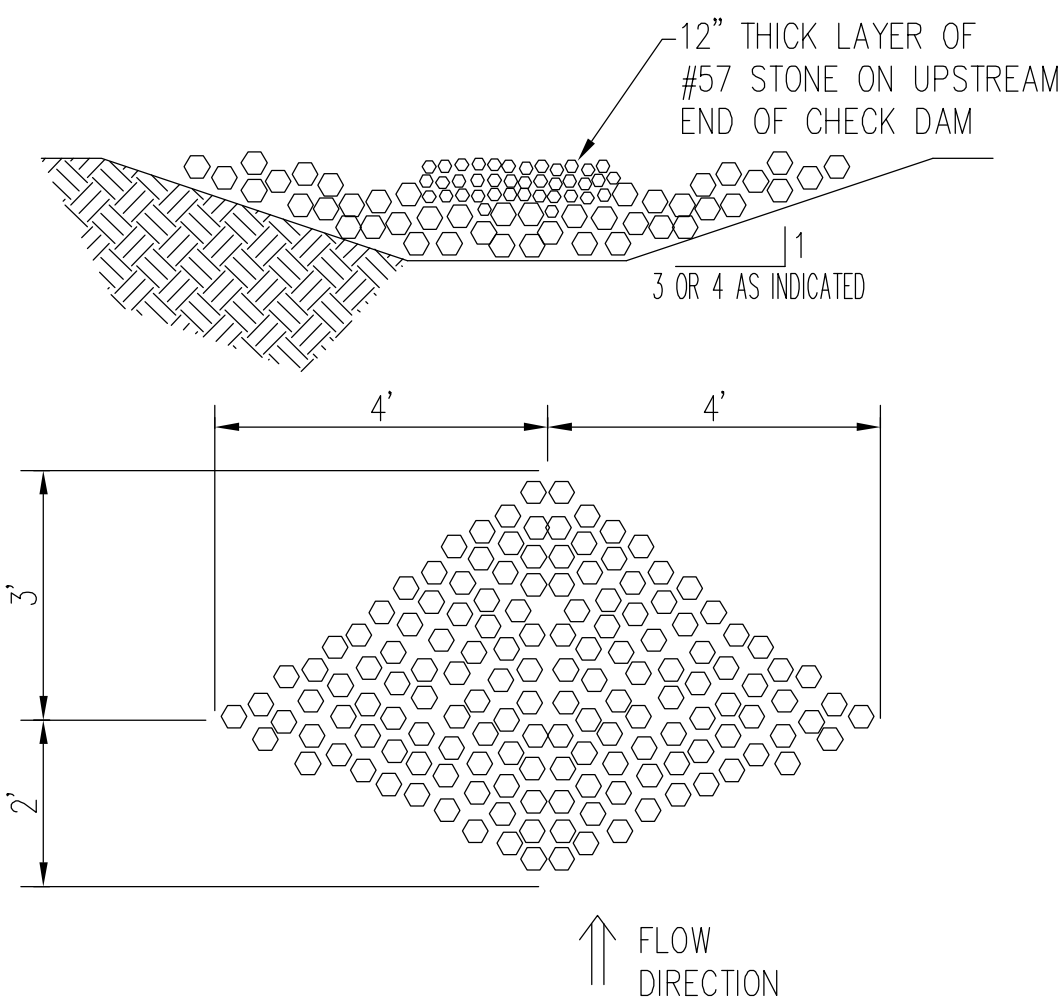
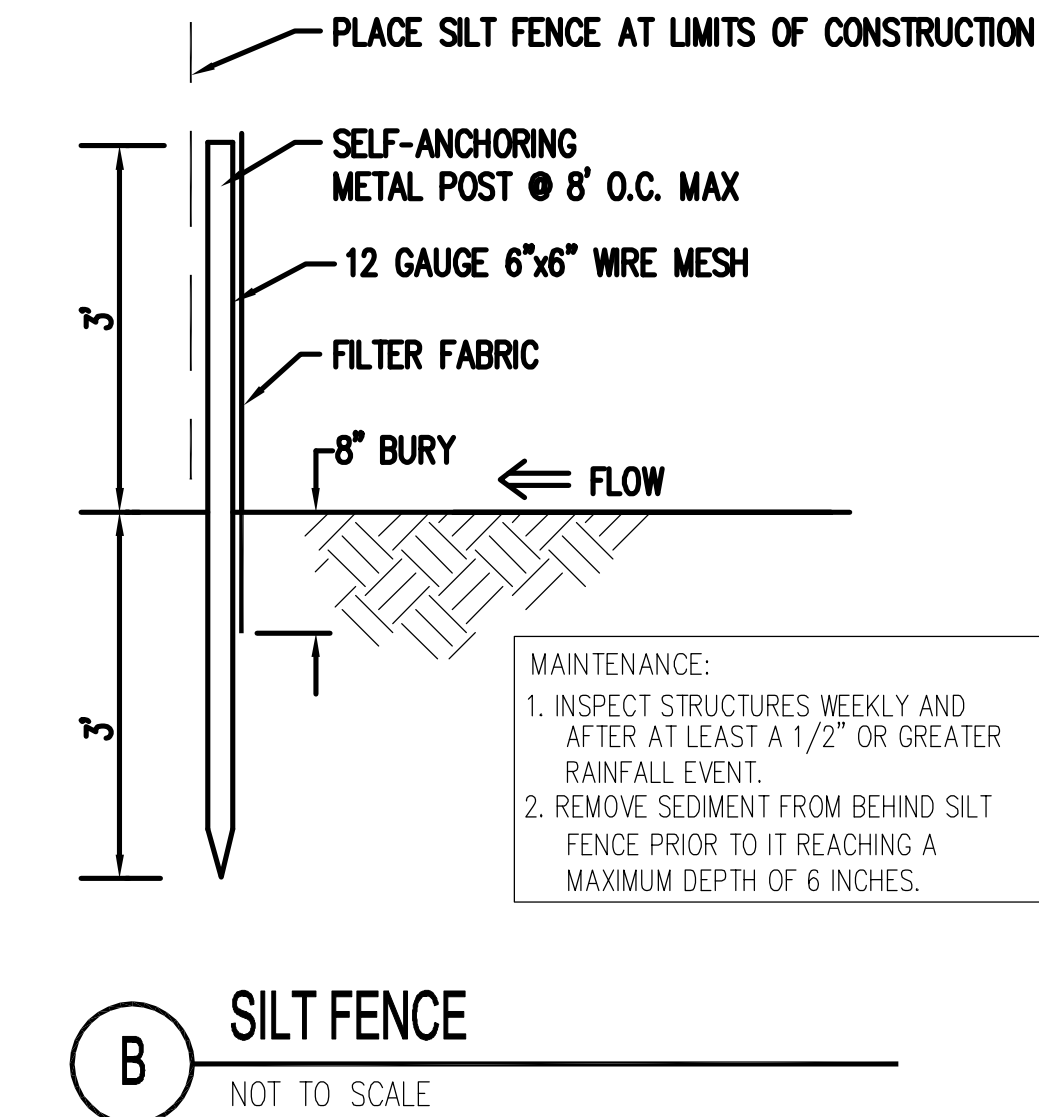


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SYM		DATE	APPROVED



- NOTES:
1. INSTALL MATING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
  2. PREPARE, SEED, AND FERTILIZE SWALE PRIOR TO MATING INSTALLATION.
  3. APPLY MATING IN DIRECTION OF WATER FLOW.
  4. PLACE MATING IN CONTACT WITH SOIL.
  5. BUTT ROLLS OF MATING WITH 6" OVERLAP.
  6. U-STAPLES SHOULD HAVE 6" MIN. LENGTH AND 1" MIN. CROWN.

CHANNEL LINING



TEMPORARY VEGETATIVE SEEDING  
(PRIOR TO ESTABLISHING PERMANENT VEGETATION)  
AFTER COMPLETION OF GRADING ACTIVITIES AND THE CONSTRUCTION OF SWALES, ALL EXPOSED AREAS SHALL BE SEED TO THE FOLLOWING SPECIFICATIONS:

**SEED BED**

LIME 1-1/2 TON PER ACRE  
FERTILIZER 1/2-TON PER ACRE  
SEED

RYE GRAIN 50 LBS PER ACRE  
TALL FESCUE 100 LBS PER ACRE

**SUPPLEMENTAL SEED**  
MAY THROUGH AUGUST:  
CENTIPEDE 5 LBS PER ACRE

**PROCEDURE**  
STRAW MULCH SHALL BE APPLIED AT A RATE WHICH WILL INSURE APPROXIMATELY 75% COVERAGE OF THE SEED AREA. THE STRAW AND SOWN SEED WILL BE LIGHTLY DISCED INTO THE BED TO GIVE IT FURTHER RESISTANCE TO BLOWING AND WASHING. THE CONTRACTOR SHALL GUARANTEE A FULL STAND OF GRASS OVER THE ENTIRE DISTURBED AREA. IF NECESSARY THE CONTRACTOR WILL WET DOWN THE AREAS TO ASSIST IN SEED GERMINATION OR AID IN GROWTH IN TIMES OF EXCESSIVELY DRY WEATHER. A STAND OF GRASS WILL BE CONSIDERED ACCEPTABLE WHEN THE ENTIRE STAND OF GRASS IS AT LEAST FOUR INCHES HIGH AND HAS ACHIEVED AT LEAST 95% COVERAGE OF DISTURBED AREAS. RESEEDING WILL BE REQUIRED AS NECESSARY BY THE CONTRACTOR TO OBTAIN THE SPECIFIED STAND OF GRASS.

**PERMANENT VEGETATION**  
ALL DISTURBED AREAS NOT COVERED WITH BUILDINGS, PAVEMENTS, OR OTHER IMPERMEABLE SURFACES SHALL 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.

**SPECIAL SEEDING 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 TEMPORARY OR 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.

**E** **VEGETATION PLAN**  
NOT TO SCALE

**DISCLOSURE OF INFORMATION**



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