

# CONSTRUCTION DRAWINGS

## HCSO FIRING RANGE NUMBER 6

### BERM REPAIR



## HCSO FIRING RANGE

### LITHIA, FLORIDA

### JULY 2025

## PROJECT NUMBER: 12649481

CALL 48 HOURS BEFORE YOU DIG

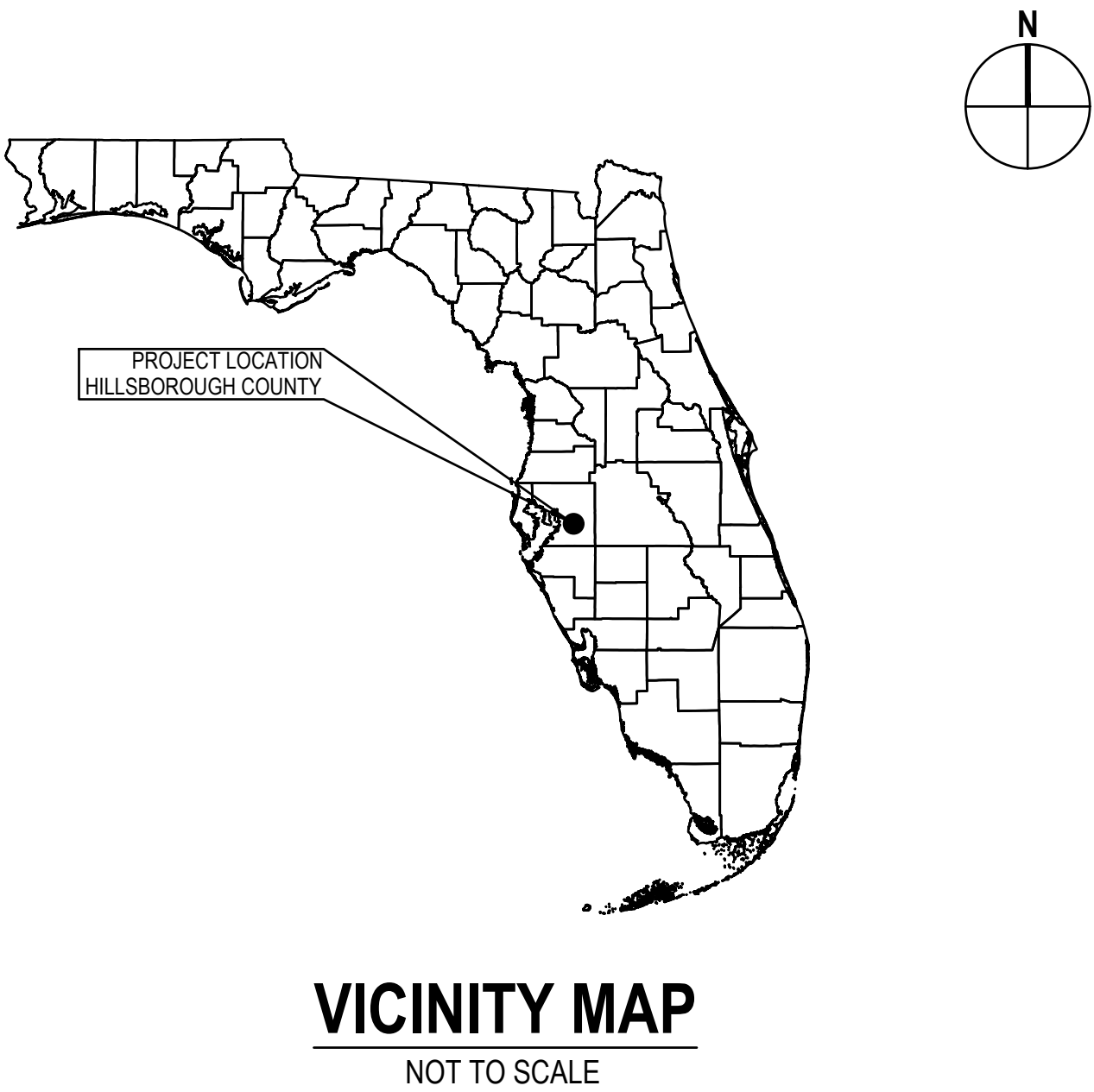
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811



1 (800) 432-4770

SITE DATA:

1. FOLIO #s:	088548.5000
2. SEC/TWP/RGE:	13/31/21
3. TOTAL LAND AREA:	320 ACRES
4. PROJECT AREA:	1.5 ACRES
5. FLOOD ZONES:	"X" PANEL NO. 12057C0545H
6. EXISTING ZONING:	AR
7. EXISTING USE:	TRAINING FACILITY
8. PROPOSED USE:	TRAINING FACILITY
9. PARKING REQUIRED:	NO ADDITIONAL



It is the opinion of the engineer that the design contained within these plans and specifications was developed in accordance with the current edition of the Florida Building Code. The engineer's seal pertains only to the repair design portion of these drawings and is only valid for twelve months from the date that it is sealed.

										Bar is one inch on original size sheet																				 <div>GHD Services Inc. Hampton Oaks Business Park 5904 Hampton Oaks Parkway Suite F Tampa, Florida 33610 USA T 813 971 3882</div>  <div>www.ghd.com</div>										Client <b>HILLSBOROUGH COUNTY BOCC</b>										Title <b>COVER SHEET</b>										Size <b>ANSI D</b>																			
																																								Project <b>HCSO FIRING RANGE NUMBER 6 BERM</b> <b>HCSO FIRING RANGE, LITHIA, FLORIDA</b>																																							
0										SAJ										JP										2025-06-23																																																	
No. Issue										Checked										Approved										Date																																																	
Author <b>A. YU-SHAN</b>										Drafting Check <b>S. JANOSIK</b>										Project Manager <b>S. JANOSIK</b>																																																											
Designer <b>A. ROGERS</b>										Design Check <b>S. JANOSIK</b>										Project Director <b>J. PHILLIPS</b>																																																											
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LIST OF DRAWINGS

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- 2
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- 6
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- 9
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SURVEY NOTES

1.
- PHYSICAL PAPER VERSIONS OF THIS SURVEY MAP OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND RAISED SEAL OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER. ELECTRONIC VERSIONS OF THIS SURVEY MAP HAVE BEEN OFFICIALLY SIGNED AND SEALED BY NEWTON J. MENDONCA NETO ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.
2.
- THE PURPOSE OF THIS SURVEY IS TO SHOW TOPOGRAPHY AND CROSS SECTIONS FOR A FAILED EMBANKMENT AREA.
3.
- ADDITIONS AND/OR DELETIONS TO THIS SURVEY MAP, BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
4.
- LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR RIGHTS-OF-WAY, EASEMENTS, RESTRICTIONS, COVENANTS, OWNERSHIP, OR OTHER INSTRUMENTS OF RECORD.
5.
- THE "LAND DESCRIPTION" SHOWN HEREON WAS PREPARED BY THE SURVEYOR.
6.
- UNDERGROUND FOUNDATIONS WERE NOT LOCATED OR SHOWN HEREON.
7.
- THERE IS NO EVIDENCE THAT UNDERGROUND ENCROACHMENTS EXIST; HOWEVER, NO SUBSURFACE INVESTIGATION WAS PERFORMED TO DETERMINE IF UNDERGROUND ENCROACHMENTS ARE PRESENT.
8.
- IMPROVEMENTS THAT WERE OBSCURED AT THE TIME OF SURVEY WERE NOT LOCATED OR SHOWN HEREON.
9.
- THIS SURVEY DOES NOT IDENTIFY THE LIMITS OR EXTENT OF POTENTIAL JURISDICTIONAL BOUNDARIES.
10.
- THIS SKETCH IS NOT A BOUNDARY SURVEY.
11.
- DISTANCES AND ELEVATIONS SHOWN HEREON ARE IN U.S. SURVEY FEET AND DECIMAL PORTIONS THEREOF, UNLESS SHOWN OTHERWISE.
12.
- BEARINGS SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, TRANSVERSE MERCATOR PROJECTIONS, NORTH AMERICAN DATUM OF 1983 WITH THE 2011 ADJUSTMENT (NAD 83/2011). ESTABLISHED BY GLOBAL POSITIONING SYSTEM (GPS) - REAL TIME KINEMATIC (RTK) METHODS USING THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), FLORIDA PERMANENT REFERENCE NETWORK (FPRN), HAVING A REFERENCE BEARING OF SOUTH 80°30'08" EAST, ALONG THE BASELINE ESTABLISHED BETWEEN TEMPORARY BENCHMARKS 1 & 2.
13.
- THE EXPECTED HORIZONTAL ACCURACY OF THE FEATURES SHOWN HEREON IS ±0.2' FOR THE LIMITS OF HARD SURFACES, SUCH AS ASPHALT, CONCRETE, CURBING, BUILDINGS, ETC. AND IS ±0.3' FOR GROUND SURFACE FEATURES, SUCH AS SURFACE FEATURES OF UTILITIES, ETC. AND IS ±0.4' FOR FEATURES PROTRUDING OUT OF THE GROUND, SUCH AS UTILITY POLES, FENCES, TREES, ETC.
14.
- THE SYMBOLS SHOWN IN THE LEGEND AND ON THIS MAP MAY HAVE BEEN ENLARGED OR REDUCED FOR CLARITY, AND MAY NOT DEPICT THE ACTUAL SIZE OR SHAPE OF THE FEATURES. THE EXPECTED HORIZONTAL ACCURACY OF THE SYMBOLS SHOWN ON THIS MAP IS ±0.3' FROM THE CENTER OF THE SYMBOL, UNLESS OTHERWISE NOTED.
15.
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ELEVATIONS HAVE BEEN ESTABLISHED BY GLOBAL POSITIONING SYSTEM (GPS) - REAL TIME KINEMATIC (RTK) METHODS USING THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), FLORIDA PERMANENT REFERENCE NETWORK (FPRN), APPLYING THE GEOID18 MODEL.
16.
- THE EXPECTED VERTICAL ACCURACY OF THE FEATURES SHOWN HEREON IS ±0.05' FOR HARD SURFACES, SUCH AS ASPHALT, CONCRETE, ETC. AND ±0.3' FOR SOFT SURFACES, SUCH AS GRASS, DIRT, MUD, ETC.

GEOTECHNICAL NOTES

1.
- SHOULD ANY NOTICEABLE SOIL SLUMPING OR SINKHOLE FORMATION BECOME EVIDENT, THE APPLICANT/DEVELOPER SHALL IMMEDIATELY NOTIFY THE COUNTY, TAMPA BAY WATER (TBW), AND SWFWMD, AND ADOPT ONE OR MORE OF THE FOLLOWING PROCEDURES AS DETERMINED TO BE APPROPRIATE BY THE COUNTY AND SWFWMD:

A.

IF THE SLUMPING OR SINKHOLE FORMATION BECOMES EVIDENT BEFORE OR DURING CONSTRUCTION ACTIVITIES, STOP ALL WORK (EXCEPT FOR MITIGATION ACTIVITIES) IN THE AFFECTED AREA AND REMAIN STOPPED UNTIL THE COUNTY AND SWFWMD APPROVE RESUMING CONSTRUCTION ACTIVITIES.

B.

TAKE IMMEDIATE MEASURES TO ENSURE NO SURFACE WATER DRAINS INTO THE AFFECTED AREAS.

C.

VISUALLY INSPECT THE AFFECTED AREA.

D.

EXCAVATE AND BACKFILL OR GROUT AS REQUIRED TO FILL THE AFFECTED AREA AND PREVENT FURTHER SUBSIDENCE.

E.

USE SOIL REINFORCEMENT MATERIALS IN THE BACKFILLING OPERATION, WHEN APPROPRIATE.

F.

IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA, MAINTAIN A MINIMUM DISTANCE OF TWO FEET FROM THE BOTTOM OF THE RETENTION POND TO THE SURFACE OF THE LIME-ROCK OR KARST CONNECTION.

G.

IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA AND THE ABOVE METHODS DO NOT STABILIZE THE COLLAPSE, RELOCATE THE RETENTION AREA.
2.
- DISCHARGE OF STORMWATER INTO DEPRESSIONS WITH DIRECT OR DEMONSTRATED HYDROLOGIC CONNECTION TO THE FLORIDAN AQUIFER SHALL BE PROHIBITED.
3.
- REFER TO THE GEOTECHNICAL REPORT DATED JANUARY 25, 2025 BY GHD FOR SUBGRADE PREPARATION RECOMMENDATIONS FOR THE AREA OF PROPOSED REPAIRS AND IMPROVEMENTS.

CLEARING, DEMOLITION, AND GENERAL EARTHWORK NOTES

1.
- PRIOR TO ANY SITE CLEARING, ALL TREES ADJACENT TO THE WORK AREA SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE SPECIFIED TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM HILLSBOROUGH COUNTY AND/OR THE OWNER.
2.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION.
3.
- FOLLOWING THE INITIAL CLEARING OF EXCESS SOIL FROM THE DISPLACED EARTHEN BERM, THE EXISTING CMU RETAINING WALL SHALL BE INSPECTED BY OWNER'S STRUCTURAL ENGINEER TO DETERMINE LIMITS OF PARTIAL OR FULL DEMOLITION. PROTECT EXISTING WALL FROM FURTHER DAMAGE DURING EARTHWORK PROCESS.
4.
- METAL FIRING RANGE BULLET BACKSTOP TO BE REMOVED AND REPLACED BY OTHERS. PROTECT EXISTING CONCRETE SLAB DURING EARTHWORK PROCESS.
5.
- PROTECT EXISTING CONCRETE TARGET STRIPS DURING EARTHWORK PROCESS. RESTORE ANY SAW-CUT SECTIONS AS DETAILED HEREIN.
6.
- REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE IF REQUIRED, PROVIDED THAT THE MATERIAL IS DEEMED SUITABLE FOR CONSTRUCTION BY THE OWNER'S GEOTECHNICAL ENGINEER. EXCESS MATERIAL IS TO BE STOCKPILED ON THE SITE AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK AND DEMOLITION MATERIALS FROM THE SITE.
7.
- IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF HISTORIC RESOURCES, INCLUDING BUT NOT LIMITED TO ABORIGINAL OR HISTORIC POTTERY, PREHISTORIC STONE TOOLS, BONE OR SHELL TOOLS, HISTORIC TRASH PITS, OR HISTORIC BUILDING FOUNDATION, ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE FLORIDA DEPARTMENT OF HISTORIC RESOURCES (STATE HISTORIC PRESERVATION OFFICER) AND HILLSBOROUGH COUNTY SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE RESOURCES BEING FOUND ON SITE.
8.
- IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE OR FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES ARE DISCOVERED, HILLSBOROUGH COUNTY AND APPLICABLE AGENCIES SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND OR ANIMAL SPECIES FOUND ON THE SITE. ALL WORK IN THE AFFECTED AREA SHALL COME TO AN IMMEDIATE STOP UNTIL ALL PERTINENT PERMITS HAVE BEEN OBTAINED, AGENCY WRITTEN AUTHORIZATION TO COMMENCE ACTIVITIES HAS BEEN GIVEN, OR UNLESS COMPLIANCE WITH STATE AND FEDERAL GUIDELINES CAN BE DEMONSTRATED.
9.
- ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT." THE CONTRACTOR SHALL ENSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS. ALL TEMPORARY SLOPES SHALL ALSO COMPLY WITH OSHA REGULATIONS.
10.
- ALL EROSION CONTROL INSTALLATION AND INSTALLATION COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONSTRUCTION APPROVAL AND MAINTENANCE OF THE EROSION CONTROL SHALL BE THE SOLE RESPONSIBILITY OF THE SITE CONTRACTOR.

CONSTRUCTION SCHEDULE NOTES

1.
- ALL WORK IS TO BE COORDINATED WITH OWNER AND HCISO LITHIA FACILITY PERSONNEL.
2.
- CONTRACTOR'S SITE SAFETY OFFICER TO BE PRESENT DURING ONSITE ACTIVITIES TO ENSURE COORDINATION WITH FIRING RANGE OPERATIONS.
3.
- CONSTRUCTION ACTIVITIES TO BE EXPEDITED DUE TO REPAIR SCOPE AND TO MINIMIZE IMPACTS TO FIRING RANGE OPERATIONS.
4.
- CONTRACT DURATION FROM NOTICE TO PROCEED (NTP) TO SUBSTANTIAL COMPLETION IS 98 CALENDAR DAYS. WITHIN 7 DAYS OF NTP CONTRACTOR TO PROVIDE DETAILED CONSTRUCTION SCHEDULE.

GENERALIZED CONSTRUCTION TASK	PROPOSED CONSTRUCTION SCHEDULE					
	WEEK 1+2	WEEK 3+4	WEEK 5+6	WEEK 7+8	WEEK 9+10	WEEK 11+12
MOBILIZATION AND EROSION CONTROL INSTALLATION						
DISPLACED SOIL REMOVAL AND RETAINING WALL PARTIAL DEMOLITION						
NORTH AND EAST EARTH BERM EARTHWORK OPERATIONS AND REPAIRS						
RETAINING WALL REPAIRS AND NEW CONSTRUCTION						
DRAIN BASIN INSTALLATION AND RELATED SITE WORK						
SUBSTANTIAL COMPLETION AND DEMOBILIZATION						

GENERAL LEGEND

NEW GRAPHICS, EQUIPMENT, STRUCTURES, ETC., ARE SHOWN AS BOLD LINEWORK AND IN THIS TEXT FORMAT.

EXISTING GRAPHICS, EQUIPMENT, CONDITIONS, STRUCTURES, ETC. ARE SHOWN AS LIGHT LINEWORK AND IN THIS TEXT FORMAT.

EXISTING PIPE CALLOUT (FOR PLANS)

PIPE SIZE AND PIPING DESIGNATION (VARIES, SEE 'LIST OF PIPING DESIGNATIONS')  
12", SD

NEW PIPE CALLOUT (FOR PLANS)

PIPE SIZE AND MATERIAL  
12" DIP, PEF  
PIPING DESIGNATION (VARIES, SEE 'LIST OF PIPING DESIGNATIONS')

NEW/EXIST PIPE CALLOUT (FOR SECTIONS)

PIPE SIZE AND MATERIAL  
12" DIP, PEF  
INV EL XXXX  
PIPING DESIGNATION (VARIES, SEE 'LIST OF PIPING DESIGNATIONS')  
12" DIP, PEF  
EL XXXX  
INVERT or CENTER LINE ELEVATION  
PIPE SIZE AND PIPING DESIGNATION (VARIES, SEE 'LIST OF PIPING DESIGNATIONS')  
12", SD  
INVERT or CENTER LINE NOT REQUIRED

TYPICAL SECTION MARKS (FOR PLANS)

SECTION LETTER  
DRAWING NUMBER (REPRESENTS DRAWING WHERE SECTION IS DRAWN)  
X-301  
A  
A  
X-301

TYPICAL SECTION SUB-TITLE (FOR PLANS)

PLAN  
SCALE:  
1  
PLAN NUMBER

TYPICAL SECTION SUB-TITLE (FOR SECTIONS)

SECTION  
SCALE:  
A  
G00X  
SECTION LETTER  
DRAWING NUMBER (REPRESENTS DRAWING WHERE SECTION MARKS ARE SHOWN)

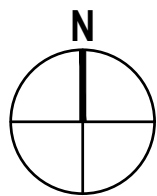
TYPICAL DETAIL MARKS

DETAIL  
SCALE:  
1  
G00X  
DETAIL NUMBER  
DRAWING NUMBER (REPRESENTS DRAWING WHERE DETAIL IS DRAWN)

TYPICAL DETAILING

DETAIL NAME  
X-501  
1  
DETAIL NUMBER  
DRAWING NUMBER (REPRESENTS DRAWING WHERE DETAIL IS DRAWN)

NORTH ARROW



CIVIL LEGEND

X  
FENCE  
-21-  
EXISTING MINOR CONTOUR  
-20-  
EXISTING MAJOR CONTOUR  
21  
NEW MINOR CONTOUR  
20  
NEW MAJOR CONTOUR  
E  
ELECTRICAL UTILITY  
BRUSH LINE  
SD  
SD  
STORM DRAIN LINE  
UW  
UW  
UNKNOWN UTILITY  
XX  
XX  
TEMPORARY CONSTRUCTION FENCE  
LOD  
LIMIT OF DISTURBANCE  
SSF  
SSF  
SUPER SILT FENCE  
SF  
SF  
SILT FENCE  
LIMIT OF SURVEY  
WETLAND  
25' WETLAND BUFFER  
CE  
TEMPORARY STONE CONSTRUCTION ENTRANCE  
IP  
INLET PROTECTION  
EXISTING STRUCTURE  
NEW STRUCTURE  
EXISTING PAVEMENT  
MILL AND OVERLAY PAVEMENT  
NEW PAVEMENT  
EXISTING CONC SIDEWALK  
NEW CONC SIDEWALK  
EXISTING GRAVEL PAVEMENT  
>25% SLOPES  
15%-25% SLOPES  
01  
CONSTRUCTION STAKEOUT POINT  
SURVEY CONTROL POINT/ MONUMENT (BENCHMARK)  
CLEANOUT  
INLET  
CATCH BASIN  
ELECTRIC BOX  
ELECTRIC METER  
METAL LIGHT POLE (ROUND)

LIST OF PIPING DESIGNATIONS

ELEC	ELECTRICAL
GAS	GAS
C	CABLE
SAN	SANITARY SEWER
SD	STORM DRAIN
W	WATER

LIST OF ABBREVIATIONS

CIP	CAST IRON PIPE
CL	CENTER LINE
CONC	CONCRETE
CP	CONSTRUCTION POINTS
DIP	DUCTILE IRON PIPE
EL	ELEVATION
MES	MITERED END SECTION
MH	MANHOLE
PW	POTABLE WATER
SAN	SANITARY SEWER
SD	STORM DRAIN
STD	STANDARD
STA	STATION
TEL	TELEPHONE CABLE
TM	TAX MAP

0		SAJ	JP	2025-06-23	
No.	Issue	Checked	Approved	Date	
Author	A. YU-SHAN	Drafting Check	S. JANOSIK	Project Manager	S. JANOSIK
Designer	A. ROGERS	Design Check	S. JANOSIK	Project Director	J. PHILLIPS

Bar is one inch on original size sheet  
0 1"



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Client **HILLSBOROUGH COUNTY BOCC**

Project **HCISO FIRING RANGE NUMBER 6 BERM**  
**HCISO FIRING RANGE, LITHIA, FLORIDA**

Project No.  
**12649481**

Date  
**7/2025**

Scale  
**NOT TO SCALE**

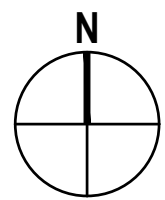
Title **NOTES, DRAWING LIST, ABBREVIATIONS, AND SYMBOLS**

Sheet No.  
**G002**

Sheet  
2 of 9

Size  
ANSI D





LEGEND

- SOIL BORING LOCATIONS
- CATCH BASIN
- ELECTRIC BOX
- METAL LIGHT POLE
- SURVEY CONTROL
- TOB — TOP OF BANK
- TOE — TOE OF SLOPE

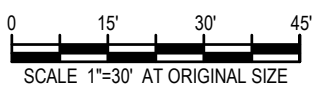
SURVEY CONTROL	COORDINATES			DESCRIPTION
	NORTHING (Y)	EASTING (X)	ELEVATION (Z)	
TBM1	1,254,021.95	604,639.56	117.56	TP.RP.LB6901
TBM2	1,254,035.03	604,139.53	119.17	TP.RP.LB6901
TBM101	1,253,804.28	604,405.94	116.99	-
TBM102	1,253,544.68	604,462.27	118.03	-

SITE PLAN AND GEOMETRY NOTES

- TOPOGRAPHIC INFORMATION SHOWN IS BASED ON SURVEYS CONDUCTED BY KCI TECHNOLOGIES, INC. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ALL POINTS AND MONUMENTS SHALL BE SURVEYED UPON MOBILIZATION TO VERIFY THEIR ACCURACY. ANY DISCREPANCIES DISCOVERED MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE. IF ANY CONTROL POINTS ARE DAMAGED OR DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND REPLACE THE CONTROL POINTS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO OWNER.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A REGISTERED LAND SURVEYOR. THIS "AS-BUILT" INFORMATION SHALL INCLUDE INVERT ELEVATIONS, TOP OF INLET ELEVATIONS, FINISHED GRADE ELEVATIONS FOR SWALES, AND LOCATION OF STRUCTURES FOR ALL UTILITIES INSTALLED. NO ENGINEER'S CERTIFICATIONS, FOR FINALIZATION PURPOSES, WILL BE MADE UNTIL THIS INFORMATION IS RECEIVED AND APPROVED BY THE ENGINEER.

0	SAJ	JP	2025-06-23
No.	Issue	Checked	Approved
Author	A. YU-SHAN	Drafting Check	S. JANOSIK
Designer	A. ROGERS	Design Check	S. JANOSIK
		Project Manager	S. JANOSIK
		Project Director	J. PHILLIPS

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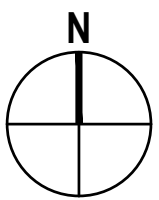
Client		HILLSBOROUGH COUNTY BOCC	
Project		HCSO FIRING RANGE NUMBER 6 BERM HCSO FIRING RANGE, LITHIA, FLORIDA	
Project No.	12649481	Date	7/2025
Scale		1" = 30'-0"	

Title EXISTING SITE PLAN

Size ANSI D

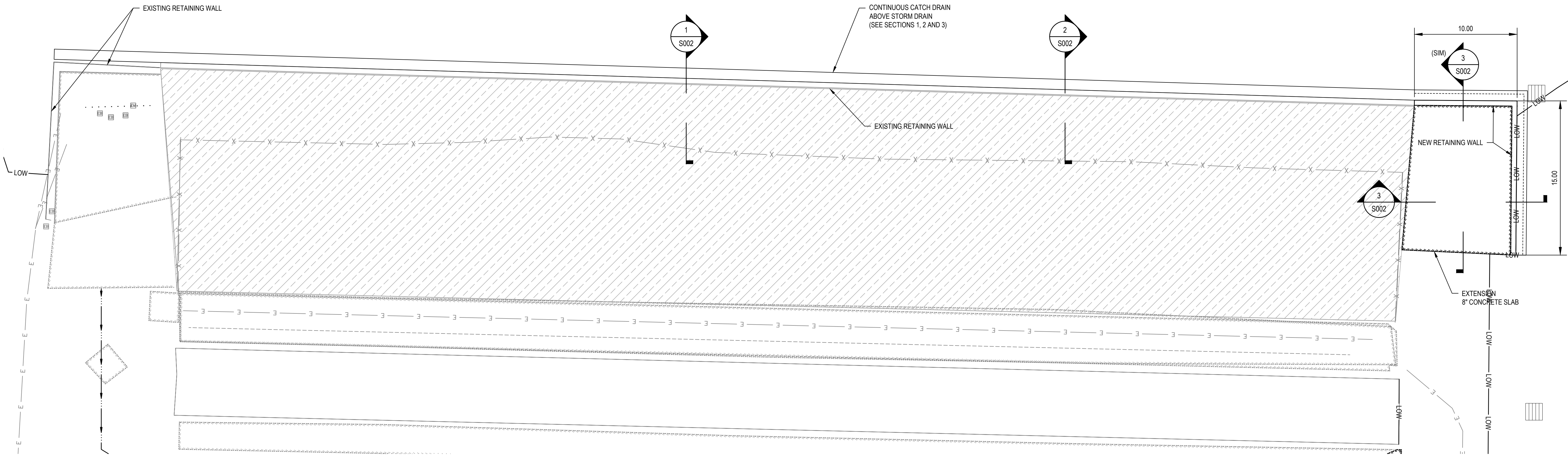
Sheet 3 of 9





- LEGEND
- TOB — TOP OF BANK
  - TOE — TOE OF SLOPE
  - SWALE
  - LOD — LIMIT OF DISTURBANCE
  - LOW — LIMIT OF WORK
  - [Hatched Box] REMOVE SOIL TO EXISTING SLAB BEHIND BULLET TRAP

- NOTES:
- RETAINING WALL TO BE REPAIRED AND RECONSTRUCTED IN THE SAME ALIGNMENTS AND ELEVATIONS.
  - WEST BERM SLOPE TO REMAIN AS-IS, NO CHANGES TO EXISTING CONDITIONS TO OCCUR.
  - SAW CUT AND REMOVE CONCRETE FOR TRENCH EXCAVATION REPLACEMENT PER DETAIL 1 CONCRETE FLATWORK REPLACEMENT ON SHEET C003



1  
C003

ENLARGED PROPOSED RETAINING WALL PLAN

SCALE: 1"= 5'-0"

0	SAJ	JP	2025-06-23
No.	Issue	Checked	Approved Date
Author	A. YU-SHAN	Drafting Check -	Project Manager S. JANOSIK
Designer	A. ROGERS	Design Check -	Project Director J. PHILLIPS

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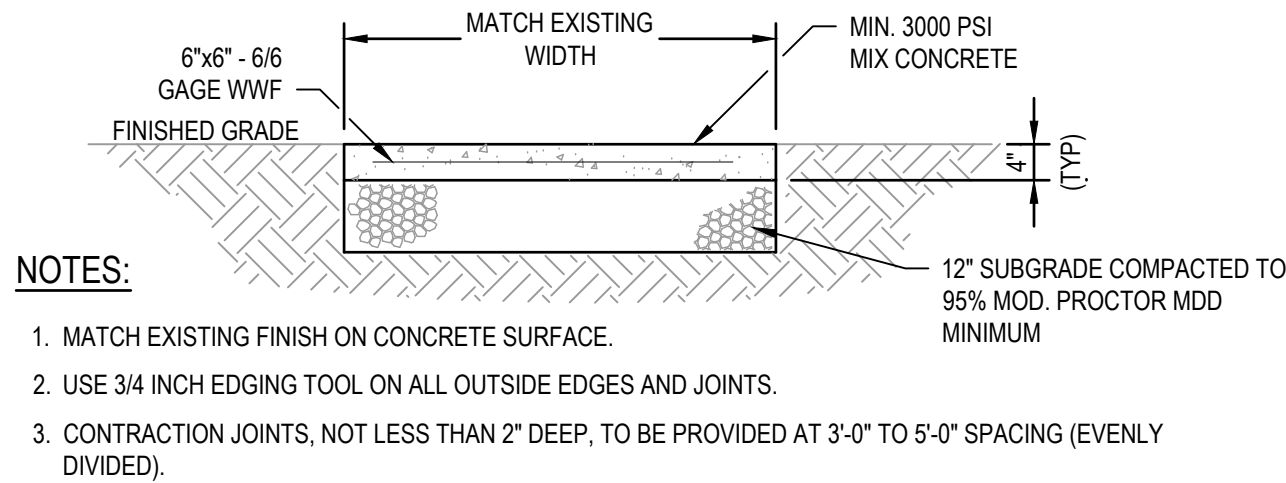
Client **HILLSBOROUGH COUNTY BOCC**  
Project **HCSO FIRING RANGE NUMBER 6 BERM**  
**HCSO FIRING RANGE, LITHIA, FLORIDA**

Project No. **12649481** Date **7/2025** Scale **1" = 5'-0"**

**ENLARGED PROPOSED  
RETAINING WALL PLAN**

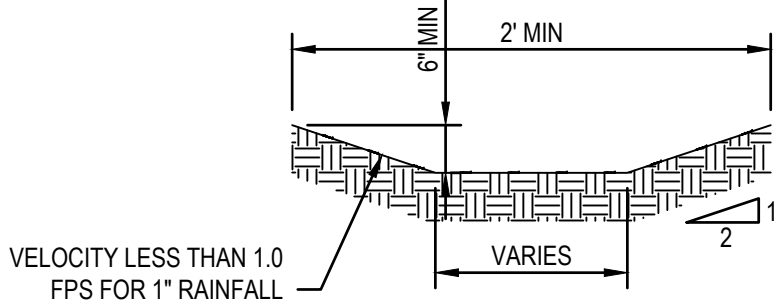
Sheet No. **C003** Sheet **5** of **9**





### CONCRETE FLATWORK REPLACEMENT DETAIL

SCALE: NOT TO SCALE



#### SWALE MAINTENANCE AND INSPECTION NOTES

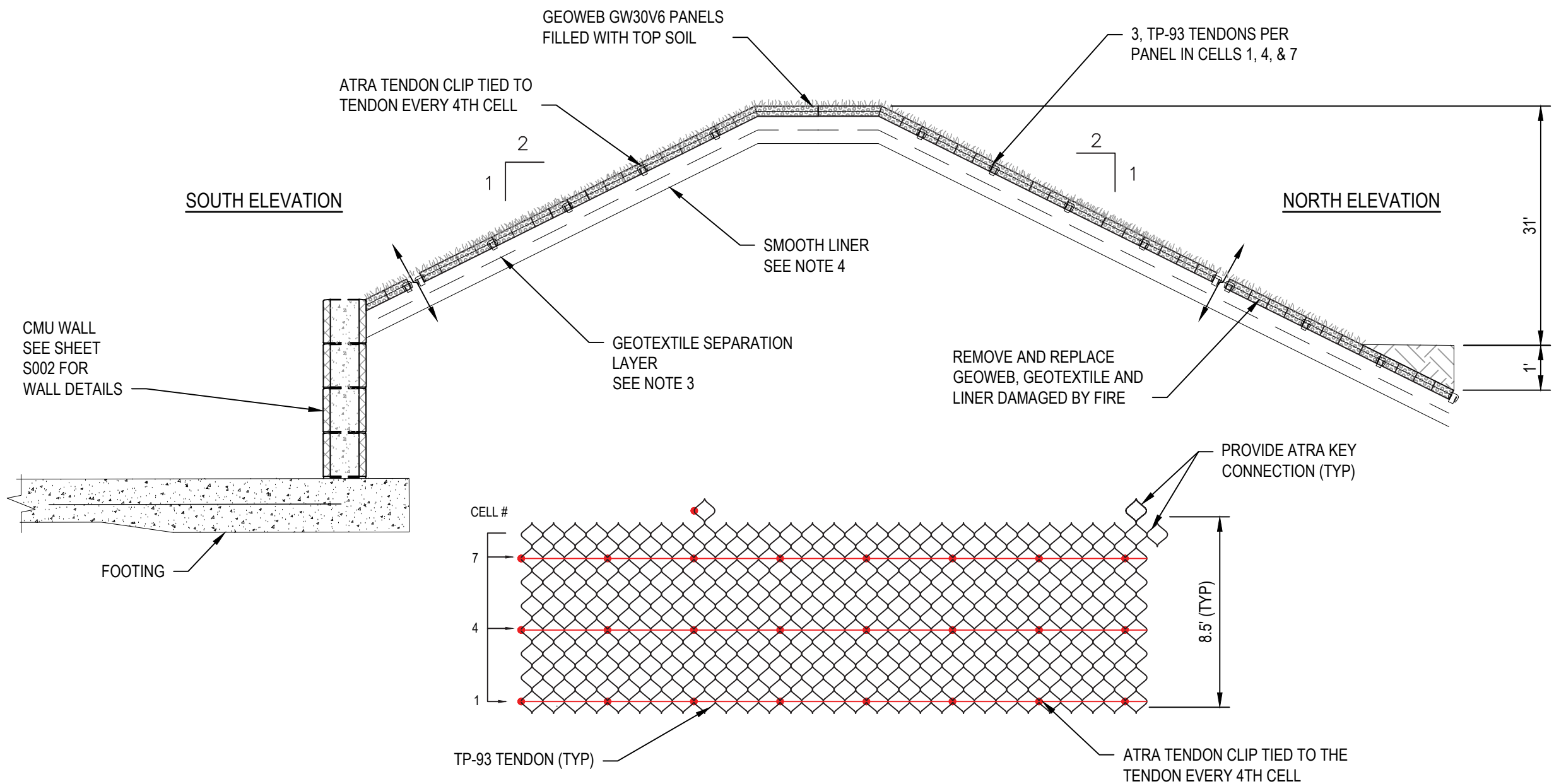
1. FOR GRASSED SWALES, REGULAR MOWING (AT LEAST MONTHLY) IS CRITICAL IN ORDER TO REDUCE COMPETITION FROM WEEDS AND IRRIGATION MAY BE NEEDED DURING DRY WEATHER TO ESTABLISH VEGETATION. SPARSELY VEGETATED AREAS NEED TO BE RE-SEEDED TO MAINTAIN DENSE COVERAGE.
2. IF WATER DOES NOT DRAIN WITHIN 48 HOURS, THE BOTTOM SOIL SHOULD BE TILLED AND REVEGETATED.
3. INSPECTIONS SHOULD BE PERFORMED ONCE A YEAR TO ASSESS SLOPE INTEGRITY, VEGETATIVE HEALTH, SOIL STABILITY, COMPACTION, EROSION, PONDING, AND SEDIMENTATION. PERIODIC REMOVAL OF SEDIMENT, LITTER, OR OBSTRUCTIONS SHOULD BE DONE AS NEEDED. ERODED SIDE SLOPES AND THE SWALE BOTTOM SHOULD BE REPAIRED AND STABILIZED WHERE NEEDED.
4. FUTURE ARTIFICIAL TURF INSTALLATION TO BE COORDINATED WITH OWNER AND HCSO LITHIA FACILITY PERSONNEL.

#### SWALE SEED MIXES

1. BASIN/ SWALE SEED MIXES BOTTOM SURFACES
  - 1.1. SEED MIX OF WET ORIENTED SPECIES (BAHIA, FOX SEDGE, VIRGINIA WILD RYE, LURID SEDGE, SOFT RUSH, GREEN BULRUSH, WOOD GRASS, FOWL MANNAGRASS, BLUE VERVAIN, BLUE FLAG IRIS, SWAMP MILKWEED, AND GRASS LEAVED GOLDENROD). SEED AT A RATE OF 15 LBS/ACRE.
2. SWALE SIDE SLOPE AND SURROUNDING FRINGE SURFACES (DRY)
  - 2.1. SEED MIX FOR DRYER SURFACE GROWTH AREAS (BAHIA, LITTLE BLUESTEM, AUTUMN BENTGRASS, SHELTER SWITCH GRASS, VIRGINIA WILD RYE, DEER TONGUE, PARTRIDGE PEA, PURPLE TOP, INDIAN GRASS, BLACK EYED SUSAN, BUTTERFLY MILKWEED, SPOTTED BEEBALM, PURPLE NODE JOE-PYE WEED). SEED AT A RATE OF 15 LBS/ACRE.

### PERMANENT GRASS-LINED SWALE

SCALE: NOT TO SCALE



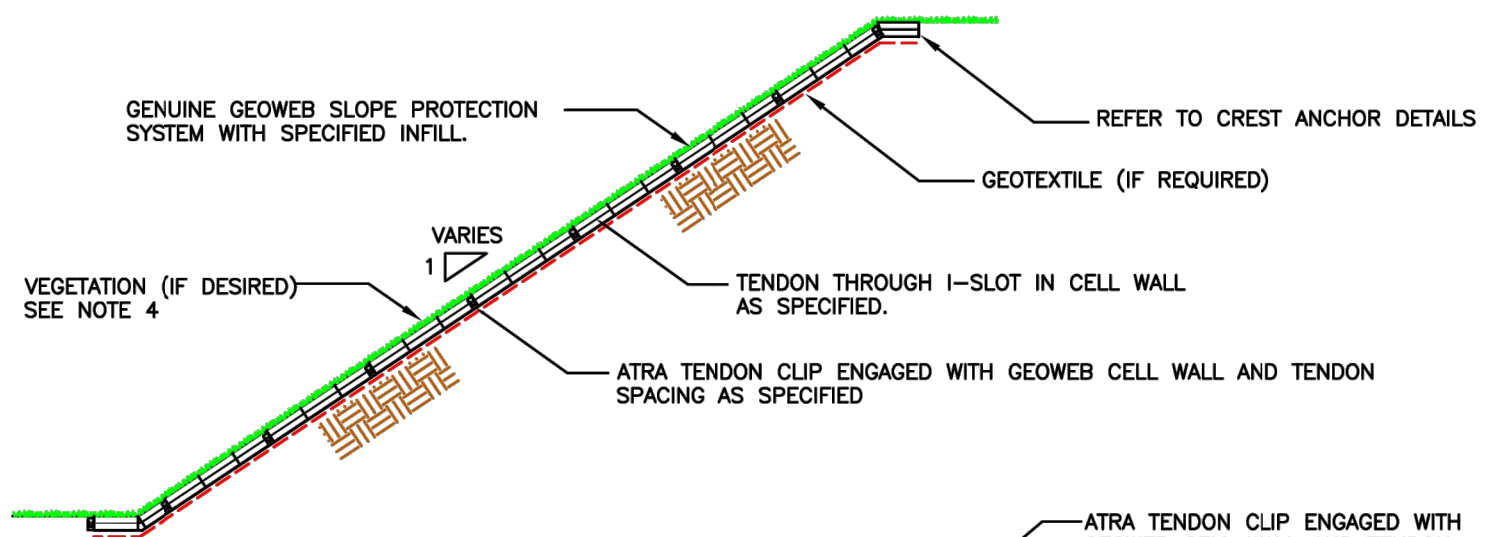
#### NOTES:

1. THIS IS BASED ON THE USE OF PRODUCTS MANUFACTURED BY PRESTO PRODUCTS COMPANY
2. REFER TO GEOTECHNICAL REPORT BY GHD DATED JANUARY 25, 2025, FOR SUBGRADE PREPARATION AND COMPACTION RECOMMENDATION
3. PROVIDE A NON-WOVEN GEOTEXTILE SEPARATION LAYER AND INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS INCLUDING OVERLAPS
4. PROVIDE 30MIL PVC SMOOTH LINER AND INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS INCLUDING WELDS
5. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION
6. INFILL MUST BE PLACED AT THE CREST FIRST THE SIDES MUST BE FILLED IN EQUAL INCREMENTS
7. LIMIT THE DROP OF INFILL TO PREVENT DISTORTION OF THE CELL WALLS
8. PROVIDE SURFACE PROTECTION (HYDROSEED, ECB OR TRM) SIZED FOR HYDRAULIC CONDITIONS TO PREVENT CELL WASH-OUT PRIOR TO ESTABLISHMENT OF VEGETATION

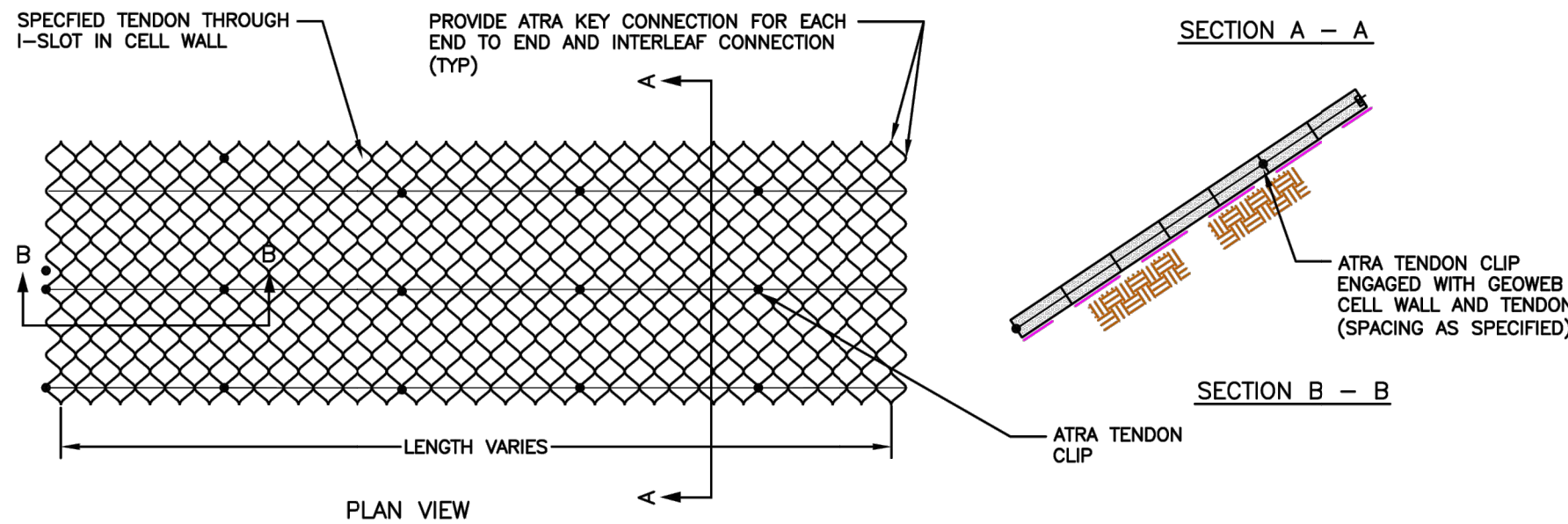


### SHOOTING RANGE GEOWEB SLOPE PROTECTION

SCALE: NOT TO SCALE

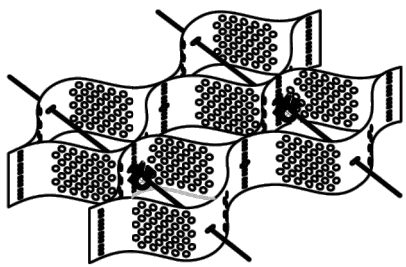


#### TYPICAL TENDON ANCHOR SYSTEM



- NOTES:
1. THE TYPE AND QUANTITY OF TENDONS AND ATRA TENDON CLIPS SHALL BE AS SPECIFIED.
  2. THE GEOWEB CELLS SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS
  3. THE GEOWEB SECTIONS SHALL BE ANCHORED AT THE CREST TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
  4. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET, HYDROSEED, OR A TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION.
  5. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
  6. REFER TO THE GENERAL DETAIL DRAWINGS FOR ANCHOR DETAILS.

TENDON DATA		
TENDON TYPE	WIDTH, IN (MM)	BREAK STRENGTH, LBF (KN)
POLYESTER		
TP-67	0.75 (19)	1506 (6.70)
TP-93	0.75 (19)	2090 (9.30)
TP-225	1.25 (32)	5100 (22.7)
WOVEN POLYPROPYLENE		
TPP-55	.25 (6)	1250 (5.56)
KEVLAR		
TK-178	0.75 (19)	4000 (17.8)



**PRESTO® PRODUCTS CO.**  
670 NORTH PERKINS STREET  
APPLETON, WI 54914  
920-739-1328  
WWW.PRESTOGEOWEB.COM

**GEOSYSTEMS**

**GENUINE GEOWEB® SLOPE WITH TENDONS**

PRESTO® GEOWEB® AND ATRA® ARE REGISTERED TRADEMARKS OF PRESTO PRODUCTS.

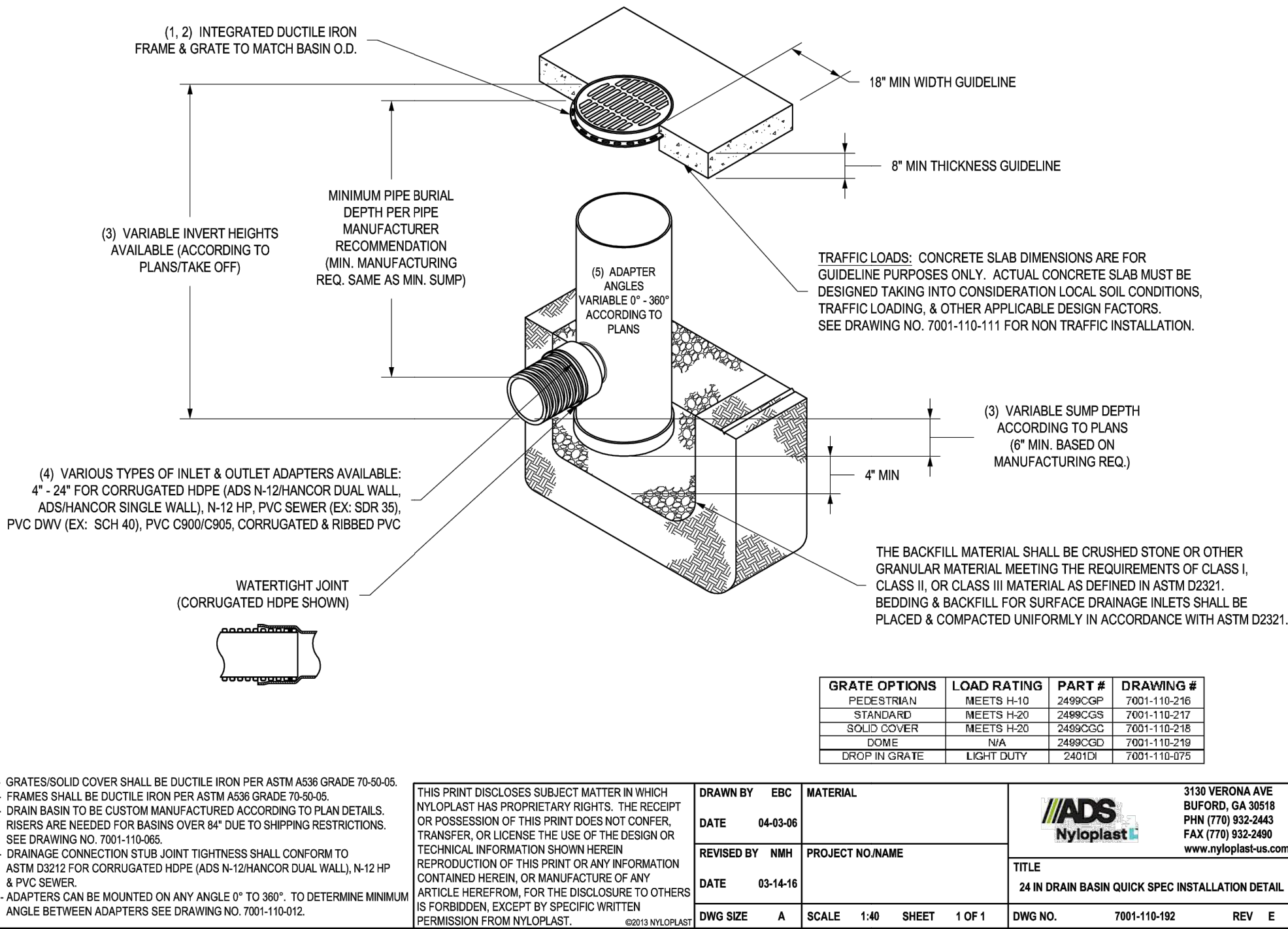
DATE: NOVEMBER 2019 FILE NAME: GWSLF.DWG

SCALE: NTS SHEET: 1 © 2010 PRESTO GEOSYSTEMS

### GEOWEB MANUFACTURER DETAILS

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### NYLOPLAST 24" DRAIN BASIN: 2824AG \_ \_ X



### DRAIN BASIN MANUFACTURER DETAILS

SCALE: NOT TO SCALE

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No.	Issue	Checked	Approved	Date	
Author	A. YU-SHAN	Drafting Check	S. JANOSIK	Project Manager	S. JANOSIK
Designer	A. ROGERS	Design Check	S. JANOSIK	Project Director	J. PHILLIPS

Plot Date: 1 July 2025 - 4:46 PM

Plotted By: Astrid Yu-Shan Chavez

Path and Filename: lghdnet\ghd\US\Tampa\Projects\56512649481\Digital\_Design\ACAD\Sheets\Civil\12649481-GHD-00-00-DWG-CI-0004.dwg

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Client **HILLSBOROUGH COUNTY BOCC**

Project **HCSO FIRING RANGE NUMBER 6 BERM  
HCSO FIRING RANGE, LITHIA, FLORIDA**

Project No.  
**12649481**

Date  
**7/2025**

Scale  
**NOT TO SCALE**

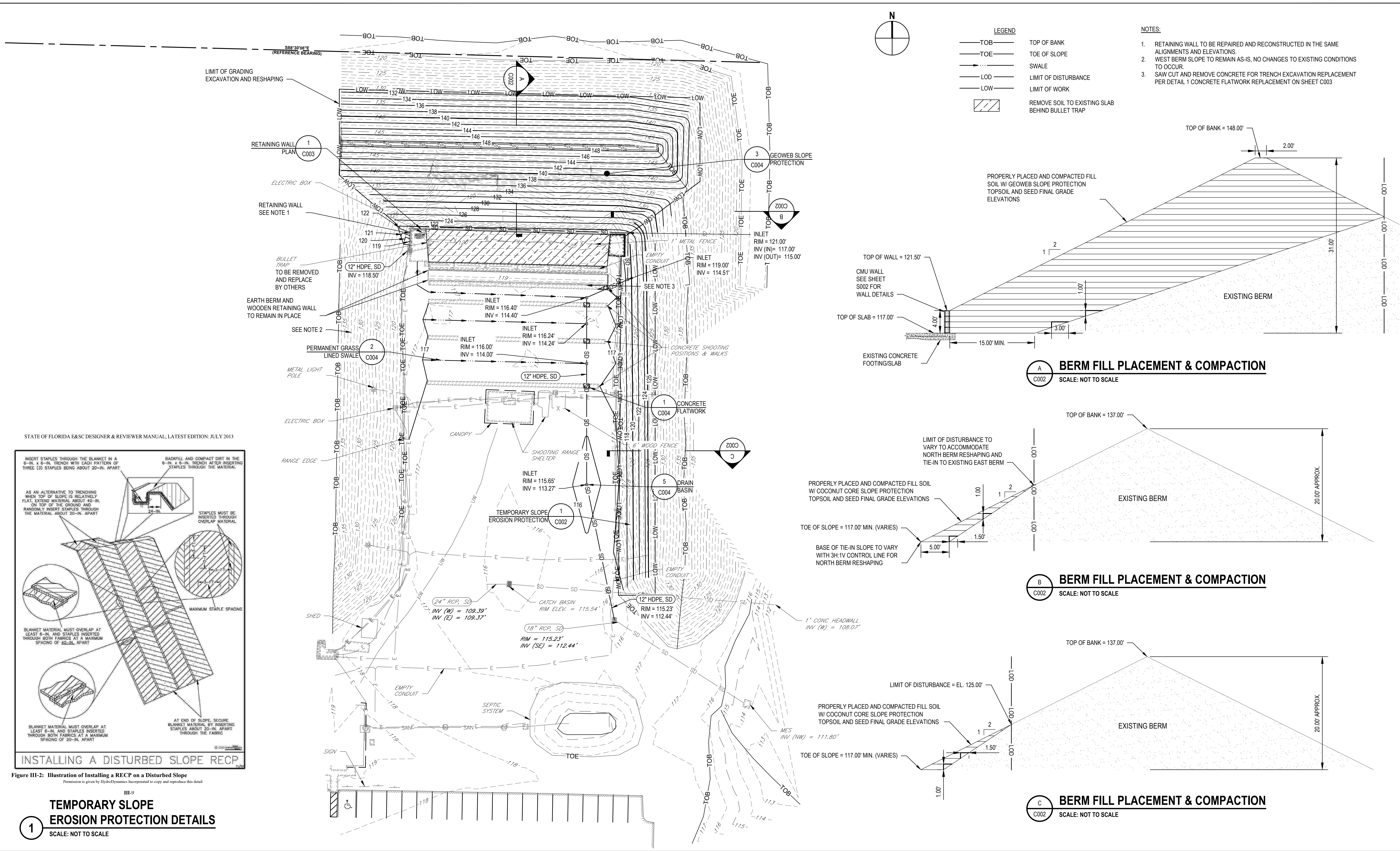
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Size  
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Sheet No.  
**C004**

Sheet  
**6 of 9**





STATE OF FLORIDA E&SC DESIGNER & REVIEWER MANUAL, LATEST EDITION: JULY 2013

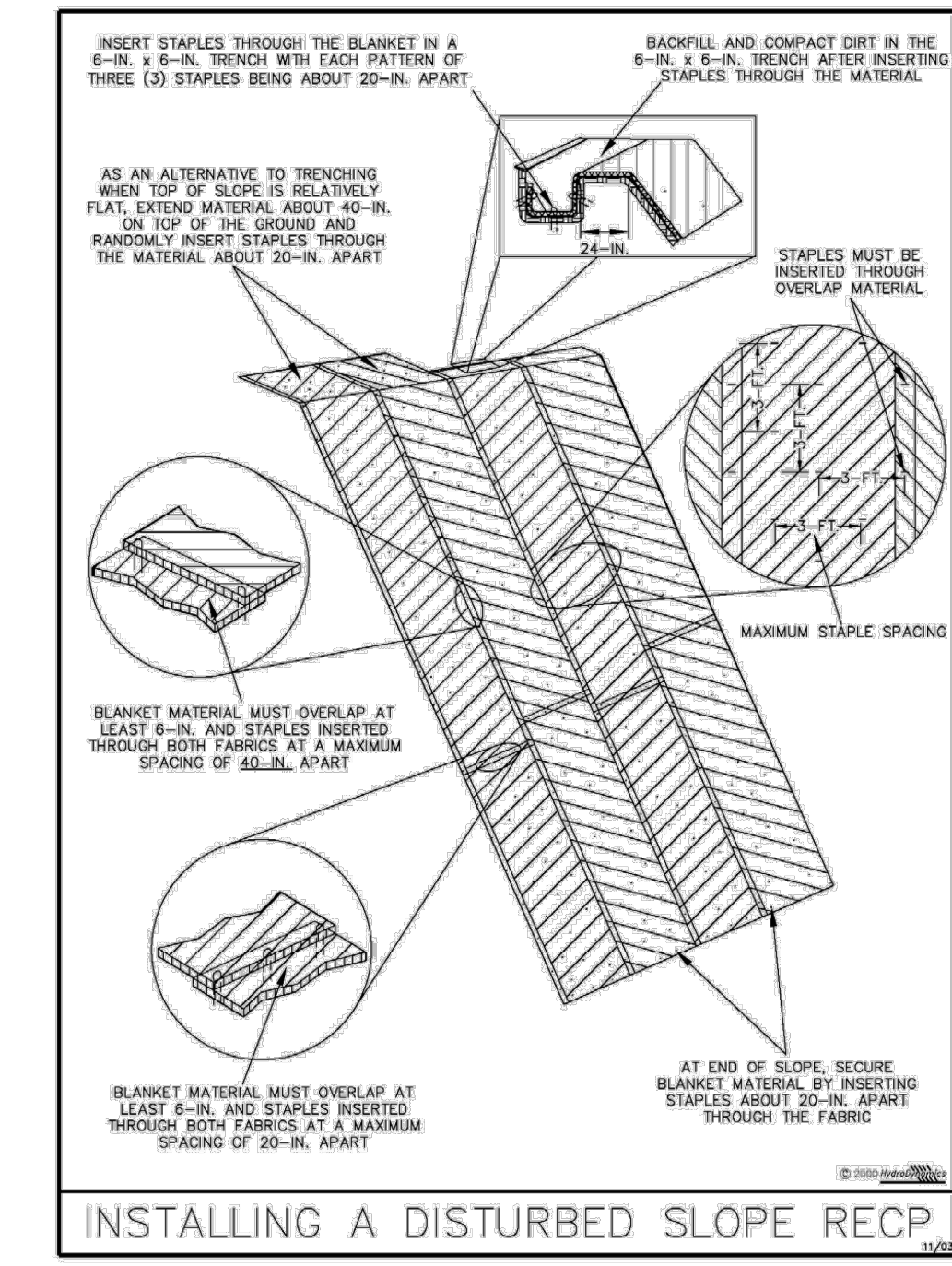


Figure III-2: Illustration of Installing a RECP on a Disturbed Slope  
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### TEMPORARY SLOPE EROSION PROTECTION DETAILS

SCALE: NOT TO SCALE

0				SAJ JP 2025-06-23			
No. Issue		Checked Approved		Date			
Author A. YU-SHAN		Drafting Check S. JANOSIK		Project Manager S. JANOSIK			
Designer A. ROGERS		Design Check S. JANOSIK		Project Director J. PHILLIPS			

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SCALE 1"=30' AT ORIGINAL SIZE

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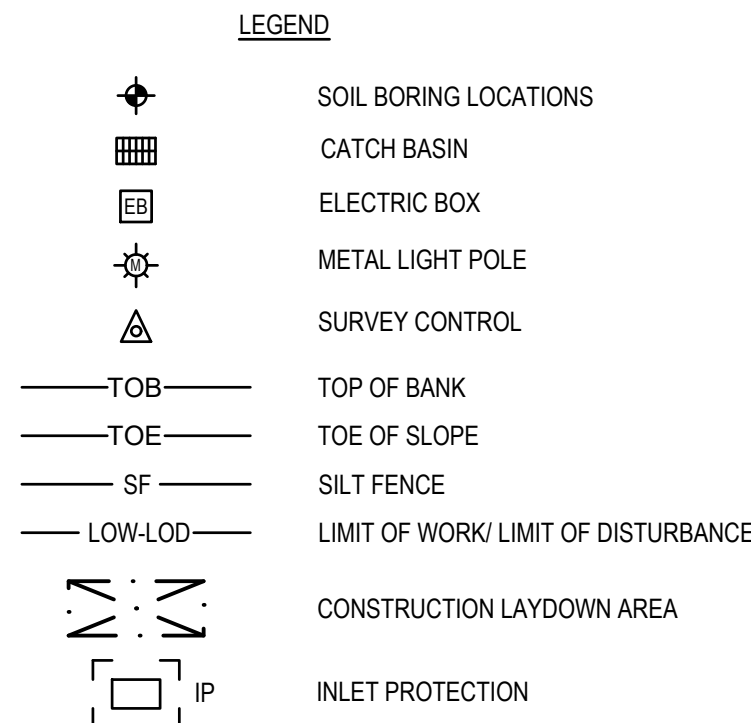
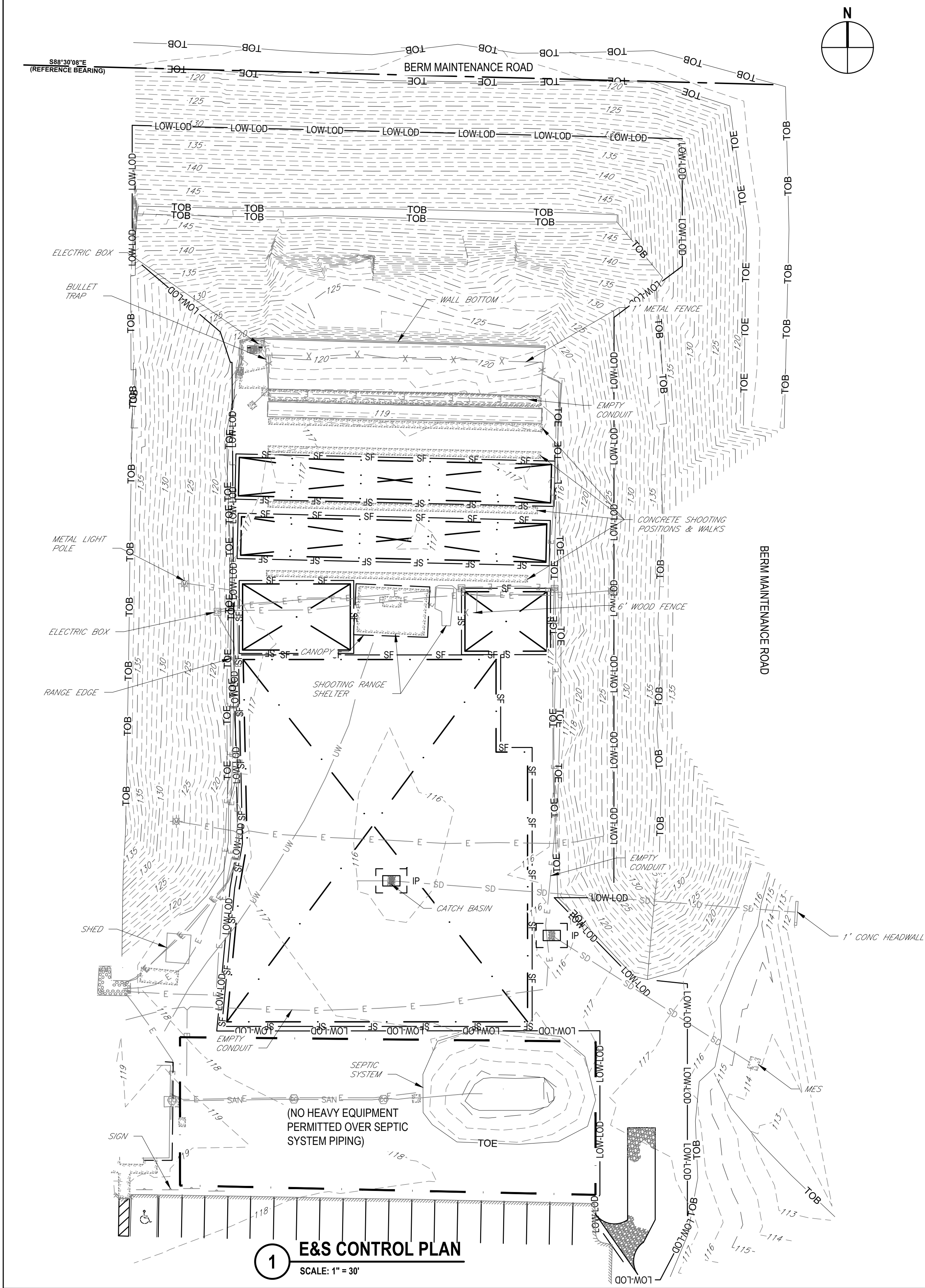
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Client HILLSBOROUGH COUNTY BOCC		Title PROPOSED SITE PLAN	
Project HCSO FIRING RANGE NUMBER 6 BERM HCSO FIRING RANGE, LITHIA, FLORIDA			
Project No. 12649481	Date 7/2025	Scale 1" = 30'-0"	Sheet No. C002

Plot Date: 1 July 2025 - 4:46 PM  
Plotted By: Astrid Yu-Shan Chevez  
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Size ANSI D  
4 of 9





CONSTRUCTION ACCESS NOTES

- CONSTRUCTION ACCESS TO BE COORDINATED WITH OWNER AND HCSO LITHIA FACILITY PERSONNEL.
- EXISTING UNIMPROVED ROAD FOR BERM MAINTENANCE TO BE USED AS NEEDED.
- EQUIPMENT AND MATERIALS LAYDOWN AREA AND TEMPORARY STOCKPILE AREAS TO BE CONFINED TO THE FIRING RANGE NUMBER 6 LIMITS.
- CONSTRUCTION PERSONNEL PARKING AREA WITHIN EXISTING ASPHALT PARKING LOT TO BE COORDINATED WITH OWNER AND HCSO LITHIA FACILITY PERSONNEL.
- EXISTING SEPTIC SYSTEM TO BE PROTECTED AND ACCESS TO BE MAINTAINED FOR LITHIA FACILITY PERSONNEL..

2 ALTERNATE ACCESS ROAD PLAN  
SCALE: 1" = 100'

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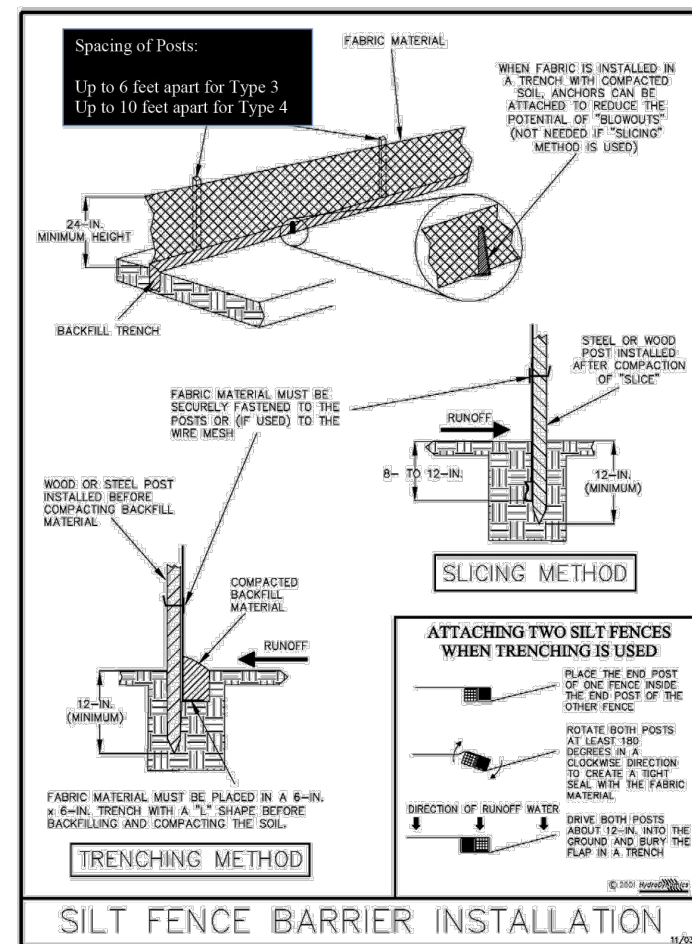


Figure V-2: Illustration of a Silt Fence Barrier

V-2

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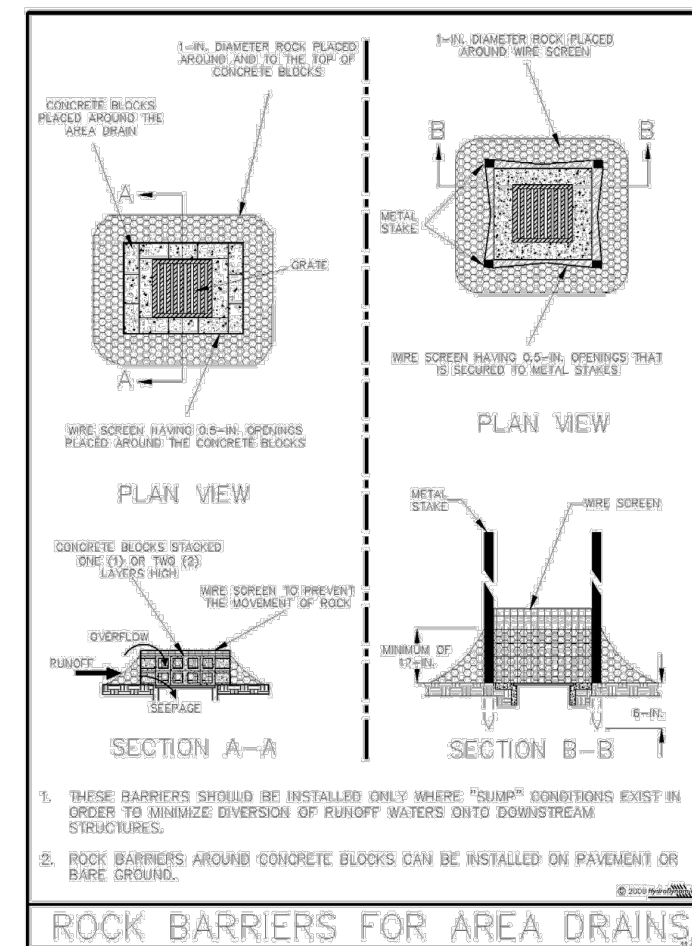


Figure V-13: Illustration of Rock Barriers around Area Drains

V-13

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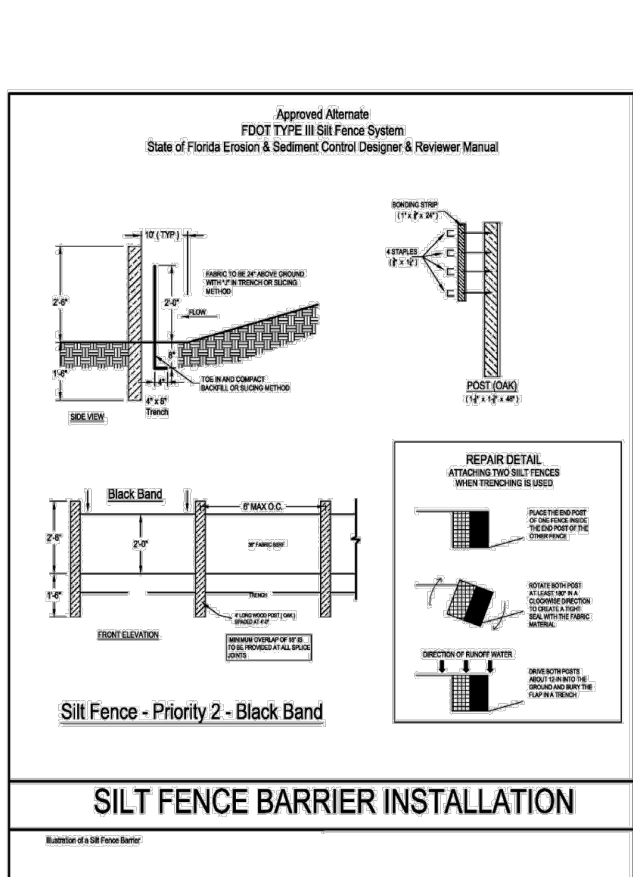


Figure V-3: Illustration of Silt Fence Priority 2 - Black Band

V-3

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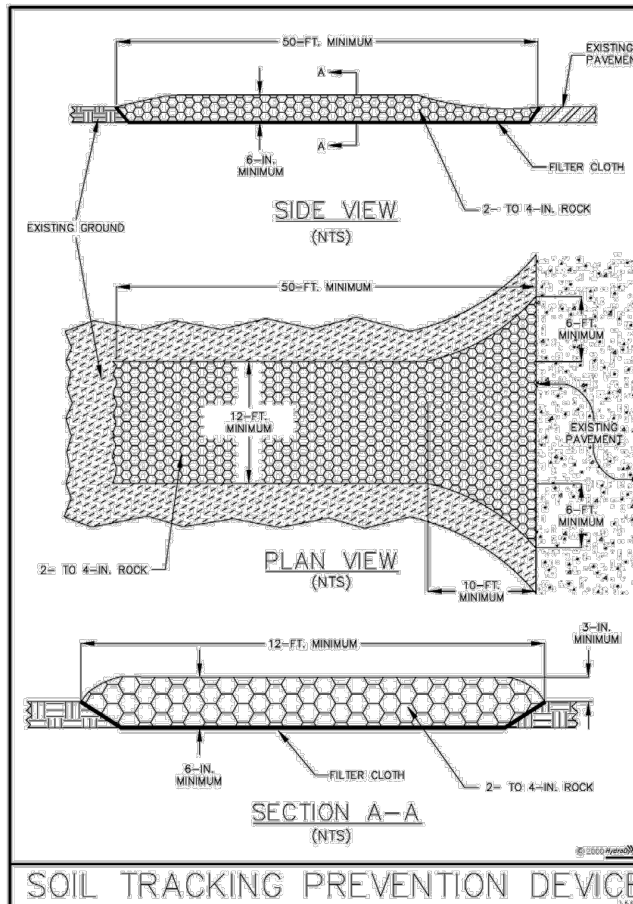


Figure V-19: Illustration of a Soil Tracking Prevention Device

V-19

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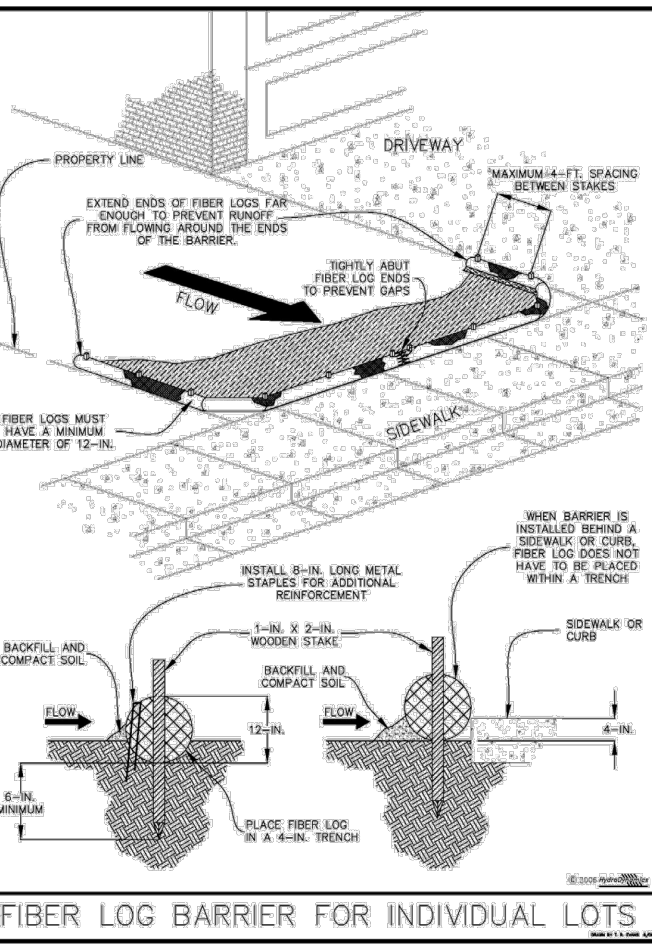


Figure V-5: Illustration of Fiber Log Barriers for Individual Lots

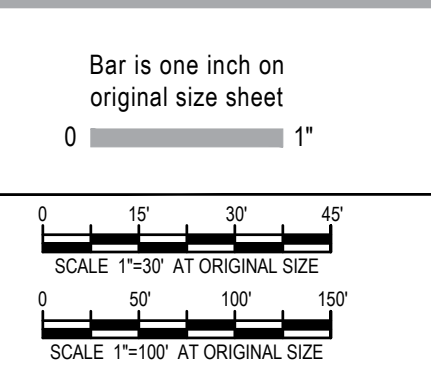
V-5

No.	Issue	SAJ	JP	2025-06-23
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Author	A. YU-SHAN	Drafting Check	S. JANOSIK	Project Manager
Designer	A. ROGERS	Design Check	S. JANOSIK	Project Director
			J. PHILLIPS	

Plot Date: 1 July 2025 - 4:46 PM

Plotted By: Astrid Yu-Shan Chevez

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Client	HILLSBOROUGH COUNTY BOCC
Project	HCSO FIRING RANGE NUMBER 6 BERM HCSO FIRING RANGE, LITHIA, FLORIDA
Project No.	12649481
Date	7/2025
Scale	AS NOTED

Title	EROSION AND SEDIMENT CONTROL PLAN
Sheet No.	C005
Sheet	7 of 9



BUILDING CODE & DESIGN CRITERIA

- GENERALFBC-2023 8TH EDITION
- CONCRETEACI 318-19
- MASONRYTMS 402/602-16
- ASCEASCE 7-22
- FBC BUILDING CHAPTER 16&18
- FBC EXISTING BUILDING CHAPTER 4 & 6

FBC DESIGN LOADS

- SURCHARGE LOAD = 100 PSF
- SOIL FRICTION ANGLE (BACKFILL)= 34 DEG
- SOIL UNIT WEIGHT (BACKFILL) = 120 PCF
- WIND LOADS IN ACCORDANCE WITH SECTION 1609
- WIND SPEED: Vult = 140 MPH, 3-SEC GUST  
Vasd = 108 MPH
- INTERNAL PRESSURE COEFFICIENT ± 0.18
- EXPOSURE CATEGORY: "C"
- CATEGORY II

REINFORCEMENT SPlice LENGTHS		
(FOR DEVELOPMENT AND LAP SPLICES)		
SIZE	HORIZONTAL BARS *	OTHER BARS
#5	32" (2'-8")	24" (2'-0")

\* HORIZONTAL BARS INCLUDE:

- HORIZONTAL WALL REINFORCING BARS.

STRUCTURAL SPECIFICATIONS

CONCRETE:

- CEMENT TO COMPLY WITH *ASTM C150*.
- SAND AND AGGREGATE TO COMPLY WITH *ASTM C33, C330, C332, AND ACI STANDARD No. 813-54*.
- WATER TO MEET POTABLE WATER CHEMICAL STANDARDS.
- PLACING SHALL BE IN ACCORDANCE WITH ACI BUILDING CODE 318 AND 318.1.
- CURING SHALL BE IN ACCORDANCE WITH ACI 605.

REINFORCING STEEL:

- BARS DEFORMED IN ACCORDANCE WITH ASTM A615-87 AND SHALL BE GRADE 60 STEEL UNLESS INDICATED OTHERWISE
- WELDED WIRE FABRIC TO CONFORM WITH ASTM A185 OR A497.
- PLACING IN ACCORDANCE WITH ACI/ DETAILING MANUAL AND ACI 318 AND 318.1.

METAL ACCESSORIES:

- METAL ACCESSORIES SHALL CONFORM TO REQUIREMENTS IN *CRSI "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION"* AND *ASTM A82 AND A185*.

CONCRETE STRENGTH:

- CONCRETE SHALL HAVE A MINIMUM 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
- TEST CYLINDERS SHALL BE TAKEN AT A RATE OF THREE (3) FOR EACH 50 CUBIC YARDS AND TESTED IN ACCORDANCE WITH ASTM SPECIFICATIONS. FURTHER TESTS MAY ALSO BE REQUIRED IN ACCORDANCE WITH ASTM C42.
- SLUMP SHALL NOT EXCEED 6" UNLESS CONCRETE MIX HAS BEEN DESIGNED TO HAVE GREATER SLUMP AND APPROVED BY THE ENGINEER.

GROUT STRENGTH:

- GROUT SHALL HAVE A MINIMUM 1500 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
- GROUT MIX SHALL BE DESIGNED AND PROPORTIONED SO AS TO PRODUCE A PUMPABLE MIXTURE.

PIPE/CASING STRENGTH:

- PIPE/CASING SHALL MEET THE REQUIREMENTS OF FBC SECTION 1810.3

PIPE/CASING INSTALLATION:

- PIPE/CASING INSTALLATION SHALL MEET THE REQUIREMENTS OF FBC BUILDING SECTION 1810.4.

COMPACTED FILL:

- FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12" AND COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- SOIL TO HAVE A MINIMUM BEARING CAPACITY OF 2000 PSF.
- BEFORE PLACING FILL, ALL DELETERIOUS MATERIAL SHALL BE REMOVED.

CONSTRUCTION NOTES:

**1. PRELIMINARY ASSESSMENT:** BEFORE STARTING ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR MUST THOROUGHLY UNDERSTAND THE EXISTING STRUCTURAL CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE NECESSARY BRACING, SHORING, AND SAFEGUARDS TO ENSURE ALL PARTS OF THE EXISTING STRUCTURE REMAIN STABLE AND UNDAMAGED DURING DEMOLITION AND CONSTRUCTION, PARTICULARLY FOR PORTIONS OF THE STRUCTURE THAT ARE TO REMAIN.

**2. FIELD VERIFICATION:** THE CONTRACTOR MUST VERIFY ALL DIMENSIONS, ELEVATIONS, AND ALIGNMENTS REQUIRED FOR INTEGRATING THE NEW WORK WITH THE EXISTING STRUCTURE.

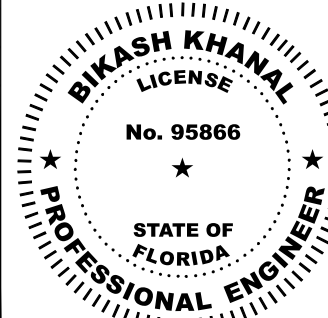



**3. SHORING RESPONSIBILITY:** THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL SHORING REQUIRED TO PROTECT AND MAINTAIN THE STABILITY OF THE EXISTING STRUCTURE.

**4. COORDINATION WITH OTHER TRADES:** THE CONTRACTOR MUST CONFIRM REQUIREMENTS FROM OTHER TRADES FOR ITEMS SUCH AS SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, AND HOLES TO BE INTEGRATED INTO THE STRUCTURAL WORK.

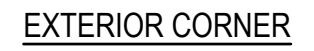
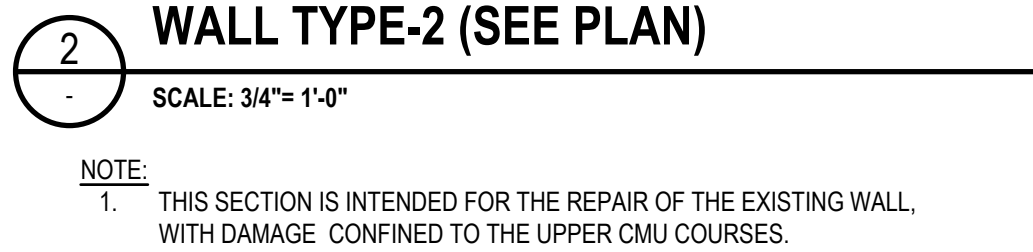
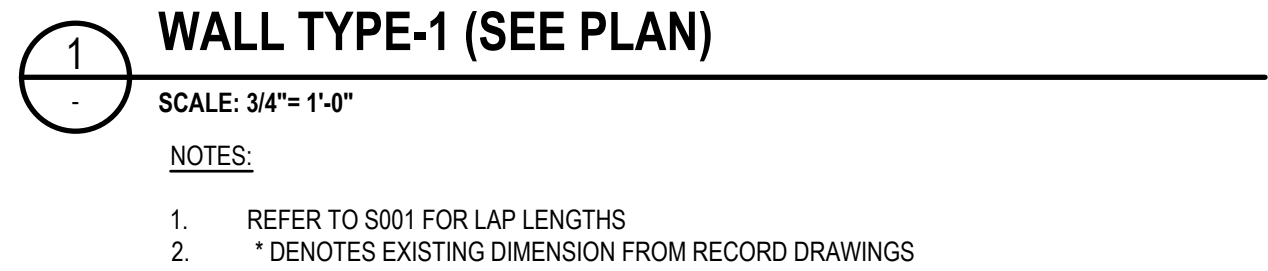
**5. SAFETY COMPLIANCE:** THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL SAFETY REGULATIONS AND PRECAUTIONS THROUGHOUT THE PROJECT. THE ENGINEER WILL NOT PROVIDE GUIDANCE OR INSTRUCTIONS RELATED TO SAFETY.

**6. TEMPORARY SUPPORTS:** STRUCTURAL DRAWINGS REPRESENT THE COMPLETED STRUCTURE AND DO NOT SPECIFY CONSTRUCTION METHODS. THE CONTRACTOR MUST PROVIDE ALL TEMPORARY BRACING AND GUYING NECESSARY TO MAINTAIN PROPER ALIGNMENT UNTIL ALL STRUCTURAL COMPONENTS AND CONNECTIONS ARE FULLY SECURED. THE DESIGN, INSPECTION, AND ADEQUACY OF SUCH TEMPORARY SUPPORTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

**6. METHODS AND SUPERVISION:** THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS, TECHNIQUES, OR SEQUENCING. SUPERVISION AND MANAGEMENT OF THE WORK ARE ENTIRELY THE CONTRACTOR'S RESPONSIBILITY.

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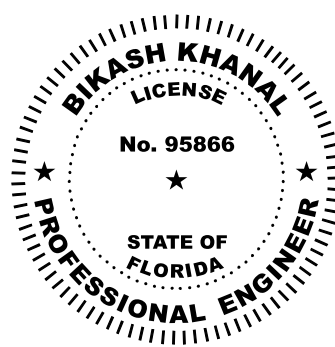
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1. REFER TO S001 FOR LAP LENGTHS




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Author	B.KHANAL	Drafting Check	C.FOREMAN	Project Manager	S. JANOSIK	
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Project **HCSO FIRING RANGE NUMBER 6 BERM**  
**HCSO FIRING RANGE, LITHIA, FLORIDA**

Project No.	1264948
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Date  
7/2025

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Title **STRUCTURAL REPAIR DETAILS**

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Sheet 9 of 9