

EAST BEACH BLUFF STABILIZATION

STABILIZATION PHASE TWO BLUFF CREST PROTECTION VILLAGE OF PORT JEFFERSON, NY



SOURCE:
{NEARMAP IMAGE AUGUST 2021}

STATE or COUNTY MAP
(NOT TO SCALE)



SOURCE:
{NEAR MAP IMAGE JUNE 2021}

SITE LOCATION MAP
(NOT TO SCALE)

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PREPARED FOR:

INCORPORATED VILLAGE OF
PORT JEFFERSON
VILLAGE HALL 121 WEST BROADWAY
PORT JEFFERSON, NY
11777

PREPARED BY:

GEI CONSULTANTS, INC., P.C.
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PROGRESS SET

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF GEI CONSULTANTS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GEI CONSULTANTS.

GEI PROJECT NO. 1700835
June 3, 2022

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DWG. NO.

G-01

SHEET NO.

1 OF 16

GENERAL NOTES:

- THE CONTRACTOR IS ADVISED THAT THE DRAWINGS AND SPECIFICATIONS FORM A PART OF THE CONTRACT DOCUMENTS AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL KEEP A COPY OF THE DRAWINGS AND THE SPECIFICATIONS ON SITE AT ALL TIMES DURING THE WORK.
- IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURES AND SEQUENCING TO ENSURE THE SAFETY OF THE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ERECTING, MAINTAINING, AND REMOVING ALL TEMPORARY SUPPORT MATERIALS AND EQUIPMENT.
- STAGING AREAS SHOWN IN THIS DRAWING SET ARE APPROXIMATE AND SUBJECT TO CHANGE. FINAL LOCATION(S) TO BE NEGOTIATED BETWEEN THE OWNER AND SUCCESSFUL BIDDER.
- CONTRACTOR SHALL FOLLOW ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING DEPARTMENT OF LABOR, SAFETY, HEALTH ACT, ARMY CORPS OF ENGINEERS, LOCAL WETLANDS CONTROL AND PERMITS. CONTRACTOR SHALL MAINTAIN ENVIRONMENTAL CONTROLS AS REQUIRED BY FEDERAL, STATE, AND LOCAL REGULATIONS AND PERMITS.
- CONTRACTOR MAY BE CHARGED ADDITIONAL COST FOR REINSPECTION OR RETEST WHEN PRIOR REJECTION MAKES REINSPECTION OR RETESTING NECESSARY.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DONE TO STRUCTURES AND EQUIPMENT, AS WELL AS, INJURIES TO THE PUBLIC AS A RESULT OF PERFORMING WORK.
- CONTRACTOR SHALL PHOTO AND OR VIDEO DOCUMENT ALL WORK AREAS AND ADJACENT STRUCTURES PRIOR TO STARTING WORK.

CODES:

- AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
- AMERICAN WELDING SOCIETY (AWS D1.4/D1.4M-2011)
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360-16)
- NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS-2018)
- AMERICAN CONCRETE INSTITUTE (ACI 318-14)
- CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
- NEW YORK STATE BUILDING CODE 2018

SURVEY CONTROL AND BASELINES:

- AN AERIAL SURVEY OF THE EAST BEACH BLUFF WAS PERFORMED BY LAND DESIGN ASSOCIATES ON MARCH 20, 2022 AND CAN ONLY REFLECT THE CONDITIONS AT THAT TIME. CONDITIONS MAY DIFFER AT TIME OF CONSTRUCTION DUE TO ONGOING EROSION. THE CONTRACTOR SHALL PERFORM A SIMILAR SURVEY PRIOR TO INITIATING CONSTRUCTION.
- COORDINATES ARE BASED ON NAD 83, NEW YORK STATE PLANE COORDINATE SYSTEM AND ARE EXPRESSED IN US SURVEY FEET.
- ELEVATIONS ARE SHOWN IN FEET AND TENTHS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AT PORT JEFFERSON, NEW YORK, NOAA TIDAL STATION 8514560.
- GPS DATA FOR BENCHMARK PROVIDED BY "SEA LEVEL MAPPING". GROUND CONTROL POINTS VERIFIED BY THIS BENCHMARK.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY, BASED ON UTILITY COMPANY RECORDS AND LOCATION OF OBSERVABLE FEATURES. GEI MAKES NO WARRANTY OR GUARANTEE TO THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES.
- EXISTING SURVEY CONTROL POINTS ARE PROVIDED AND SHOWN ON SHEET C-01. THE CONTRACTOR SHALL INSTALL ADDITIONAL SURVEY CONTROL AS NECESSARY TO PERFORM THE WORK. PERMANENT SURVEY CONTROL (AT LEAST 3 POINTS) SHALL BE ESTABLISHED FOR THE PROJECT AND PROTECTED FROM DAMAGE DURING CONSTRUCTION AND PROVIDED ON AS-BUILT DRAWINGS.
- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN PROJECT BASELINES AND CONTROL AS REQUIRED TO ENSURE ACCURATE LOCATION OF ALL ELEMENTS OF THE PROJECT.

SITE ACCESS AND STAGING AREAS:

- CONTRACTOR STAGING AREA SHALL BE LOCATED WITHIN THE PROJECT LIMITS AND APPROXIMATE SIZE AS SHOWN ON SHEET C-05. FINAL LOCATION AND SIZE SHALL BE DETERMINED BY THE OWNER.
- NO MATERIALS OR EQUIPMENT SHALL BE STORED OUTSIDE LIMITS SHOWN UNLESS APPROVED BY ENGINEER.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE SECURITY. CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS, FENCING OR EQUIVALENT TO PREVENT UNAUTHORIZED ACCESS TO WORK AREAS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SAFETY. ALL CONSTRUCTION ACTIVITY SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL AND STATE REGULATIONS.
- AREAS OUTSIDE THE LIMITS OF THE WORK DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL EXISTING PAVEMENT DAMAGED WITHIN THE PROJECT LIMITS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL STAGE AND SEQUENCE CONSTRUCTION TO ENSURE STABILITY OF EXISTING STRUCTURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES TO REMAIN.
- EQUIPMENT LOADING LIMITATIONS:
 - PRIOR TO WALL INSTALLATION - EQUIPMENT SHALL NOT OPERATE WITHIN 10' OF THE BLUFF CREST. EQUIPMENT LOADING WITHIN 30' OF THE BLUFF CREST SHALL BE LIMITED TO 100 PSF.
 - AFTER WALL AND TIEBACK INSTALLATION - EQUIPMENT LOADING UP TO 600 PSF IS PERMITTED BUT WILL NOT BE PERMITTED WITHIN 10' OF THE INSHORE FACE OF THE WALL. EQUIPMENT IS LIMITED TO 100 PSF WITHIN 10' OF WALL.
- CONTRACTOR SHALL SUBMIT EQUIPMENT ACCESS PLAN FOR ENGINEER REVIEW AND APPROVAL PRIOR TO STARTING THE WORK.

SITE PREPARATION:

- CONTRACTOR SHALL INSTALL ALL SIGNAGE PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES INCLUDING OWNER PROJECT SIGNAGE, DEC FILE NUMBER AND FEDERAL AND STATE MANDATED WORK PLACE SIGNAGE.
- CONTRACTOR SHALL HAVE IN-PLACE TRASH AND SANITARY FACILITIES FOR THE WORK PLACE.
- EXISTING PAVEMENT, STRUCTURES AND AMENITIES WITHIN THE PROXIMITY OF THE WORK SHALL BE PROTECTED TO PREVENT ACCIDENTAL DAMAGE BY CONSTRUCTION ACTIVITIES.
- DISCOVERY OF INCONSISTENT SITE INFORMATION OR CONDITIONS ARE TO BE IMMEDIATELY CONVEYED TO THE OWNER AND ENGINEER PRIOR TO COMMENCING OR CONTINUING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY UDIG NY PRIOR TO COMMENCING ANY WORK ON SITE.
- LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UTILITIES AS MAY BE REQUIRED. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES OCCURRING AS A RESULT OF THE CONTRACTOR'S FAILURE TO LOCATE AND PROTECT UNDERGROUND UTILITIES. ALL REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING UTILITIES AND DRAINAGE AT ALL TIMES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AND RESTORE TO THE PRE-EXISTING CONDITION AT NO COST TO THE OWNER.
- CONTRACTOR SHALL SUPPLY ALL NECESSARY TEMPORARY UTILITIES FOR CONSTRUCTION INCLUDING WATER, POWER, LIGHTING, DATA, TELEPHONE AND SANITARY FACILITIES.
- CONTRACTOR SHALL READ AND UNDERSTAND ALL REGULATORY CONDITIONS ASSOCIATED WITH THE PROJECT AND SHALL COMPLY WITH ALL ENVIRONMENTAL REQUIREMENTS AND PERMIT CONDITIONS.
- CONTRACTOR SHALL CONFINE ALL OTHER TEMPORARY STOCKPILES OF EXCAVATED MATERIAL OR IMPORTED FILL USING HAY BALES AND FILTER FABRIC IN CONFORMANCE WITH PERMIT CONDITIONS.
- CONTRACTOR SHALL PROVIDE A CONFINED CONCRETE TRUCK WASHDOWN AREA AT A LOCATION TO BE APPROVED BY THE ENGINEER. WASHDOWN AREA SHALL INCLUDE PROTECTION TO PAVEMENT, A PERIMETER WALL AND A FILTER PLASTIC LINER. NO RUNOFF CONTAINING CEMENT OR OTHER SUSPENDED SOLIDS WILL BE PERMITTED. ALL MATERIALS SHALL BE COMPLETELY REMOVED ON COMPLETION OF CONSTRUCTION AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION.

ENVIRONMENTAL:

- CONTRACTOR SHALL COMPLY WITH ALL ENVIRONMENTAL REQUIREMENTS AND PERMIT CONDITIONS.
- CONTRACTOR SHALL CONFINE ALL TEMPORARY STOCKPILES OF EXCAVATED MATERIAL OR IMPORTED FILL USING HAY BALES AND FILTER FABRIC.

DEMOLITION:

- ALL EXCESS MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR & BE DISPOSED OF AT A LICENSED FACILITY UNLESS OTHERWISE AGREED WITH THE OWNER.

CONTRACTOR QUALITY CONTROL:

- THE CONTRACTOR IS RESPONSIBLE FOR THE QUALITY CONTROL, FIELD INSPECTION AND TESTING OF MATERIALS INCLUDING BUT NOT LIMITED TO EARTHWORK COMPACTION, EARTH WORK MATERIALS, CONCRETE MATERIALS, CONCRETE STRENGTH AT 7 AND 28 DAYS, CONCRETE SLUMP, AND CONCRETE AIR ENTANGLEMENT.
- PERFORM WORK AND SUPPLY MATERIALS IN CLOSE CONFORMITY WITH THE LINE, GRADES, CROSS SECTIONS, DIMENSIONS AND MATERIAL REQUIREMENTS SHOWN IN THE ISSUED FOR CONSTRUCTION DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SURVEYING AND FIELD MEASUREMENTS TO VERIFY CONFORMANCE WITH LINES, GRADES, CROSS SECTIONS AND DIMENSIONS.

CONCRETE:

- ALL REINFORCEMENT SHALL BE NEW DEFORMED STEEL BARS, GRADE 60 CONFORMING TO ASTM A615, HOT DIP GALVANIZED CONFORMING TO ASTM A-767 OR A-1094.
- REINFORCEMENT ACCESSORIES SHALL BE DIELECTRIC COATED STEEL OR APPROVED PLASTIC.
- CONCRETE FOR FENCE POSTS SHALL HAVE THE FOLLOWING SPECIFICATIONS:
 - MINIMUM COMPRESSIVE STRENGTH: 3,000 PSI AT 28 DAYS
 - AIR ENTRAINMENT SHALL BE MAINTAINED AT 5% ± 2%
 - MAXIMUM SIZE OF AGGREGATE SHALL BE 1 INCH.
 - WATER TO CEMENT RATIO SHALL BE 0.50 UNLESS OTHERWISE NOTED.
 - CEMENT SHALL MEET ASTM C150, TYPE II OR V
- GROUT SHALL BE A HIGH STRENGTH, NON-SHRINK GROUT WITH SALTWATER RESISTANCE, SUCH AS SIKAGROUT 212 WITH CORROSION INHIBITOR, PROSPEC HIGH STRENGTH PRECISION GROUT, OR APPROVED EQUAL.

STRUCTURAL STEEL:

- STEEL FABRICATION AND ASSEMBLY SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
- ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A-572, GRADE 50 UNLESS OTHERWISE NOTED.
- STEEL BOLTS FOR STEEL MEMBER CONNECTIONS SHALL CONFORM TO ASTM F3125, GRADE A325.
- ALL HARDWARE SHALL BE HOT DIP GALVANIZED IN ACCORDANCE W/ ASTM SPECIFICATIONS A-123.
- WELDING RODS SHALL CONFORM TO AWS E70XX GRADE.
- STAINLESS STEEL PLATES, BARS, ANCHORS AND SHAPES SHALL CONFORM TO ASTM SERIES 300 TYPE 316 ALLOY.
- ALL MEMBERS, SPLICE PLATES, BRACKETS AND FASTENERS SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.

TIEBACK NOTES:

- TIEBACK AND BEARING PLATES SHALL BE DESIGNED BY THE CONTRACTOR FOR THE DESIGN LOADS INDICATED BELOW. MINIMUM BAR SIZE AND FREE LENGTHS SHALL BE AS INDICATED ON THESE DRAWINGS.
- TIEBACK DESIGN LOAD = 134 KIPS
- TIEBACKS SHALL BE DESIGNED, CONSTRUCTED, AND TESTED IN ACCORDANCE WITH PTI (2015) RECOMMENDATION FOR PRESTRESSED ROCK AND SOIL ANCHORS AND THESE DRAWINGS. DESIGN, INSTALLATION PROCEDURES, AND LOAD TEST SETUP SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- ANCHORS SHALL HAVE PTI CLASS I DOUBLE CORROSION PROTECTION
- COUPLERS TO BE NEW, FURNISHED BY THE SAME MANUFACTURER AS THE TIEBACKS, AND UTILIZE AN INTERNAL STOP
- TIEBACK INSTALLATION TOLERANCE FOR VERTICAL AND HORIZONTAL ANGLES SHALL BE A MAXIMUM OF 3 DEGREES FROM THE SPECIFIED ALIGNMENT.
- TIEBACK GROUT USED TO FILL THE DRILLED HOLE SHALL CONSIST OF MIXTURE OF PORTLAND CEMENT, WATER, AND FLUIDIFIER (IF REQUIRED) PROPORTIONED TO PROVIDE GROUT CAPABLE OF BEING PLACED WITHOUT DIFFICULTY AND WHICH WILL LATERALLY PENETRATE AND FILL THE SOIL AROUND THE ANCHOR. MATERIALS SHALL BE PROPORTIONED TO PROVIDE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 7 DAYS AND 5000 PSI AT 28 DAYS.
- HOLES FOR TIEBACKS SHALL BE DRILLED BY ROTARY METHOD USING INTERNAL FLUSH OF DRILL CUTTINGS AND UTILIZING TEMPORARY METHODS OF INSTALLATION WHICH SHALL PREVENT THE LOSS OF GROUND DUE TO EROSION. INSTALLATION METHODS SHALL BE SUCH THAT THE FLOW OF WATER OR MOVEMENT OF SOIL THROUGH ANNULAR SPACES OUTSIDE THE CASING IS PREVENTED.
- TEST EVERY PRODUCTION ANCHOR IN THE PRESENCE OF THE ENGINEER AS SPECIFIED BELOW:
 - PERFORMANCE TEST - FIRST TWO PRODUCTION ANCHORS AND AT LEAST 4 TOTAL ANCHORS
 - PROOF TEST - ALL OTHER ANCHORS
 - P = DESIGN LOAD, L = LOCK-OFF LOAD (0.8P), AL = ALIGNMENT LOAD
 - THE CONTRACTOR WILL MONITOR THE ANCHOR HEAD MOVEMENTS DURING EACH TEST.
- PERFORMANCE TEST - THE PERFORMANCE TESTING SHALL CONSIST OF CYCLICALLY AND INCREMENTALLY LOADING AND UNLOADING THE ANCHOR IN THE INCREMENTS BELOW:
 - AL, 0.25P
 - AL, 0.25P, 0.50P
 - AL, 0.25P, 0.50P, 0.75P
 - AL, 0.25P, 0.50P, 0.75P, 1.00P
 - AL, 0.25P, 0.50P, 0.75P, 1.00P, 1.20P
 - AL, 0.25P, 0.50P, 0.75P, 1.00P, 1.20P, 1.33P
 - UNLOAD AND LOCK-OFF AT L
- PROOF TEST - ALL ANCHORS NOT PERFORMANCE TESTED SHALL BE PROOF TESTED. THE PROOF TESTING SHALL CONSIST OF INCREMENTALLY LOADING AS FOLLOWS:
 - AL, 0.25P, 0.50P, 0.75P, 1.00P, 1.20P, 1.33P
 - UNLOAD AND LOCK-OFF AT L
- IN ALL LOAD TESTS THE FINAL INCREMENT SHALL BE HELD FOR 10 MINUTES. IF THE CREEP CRITERIA FOR THE 10 MINUTE HOLD PERIOD IS NOT MET (SEE NOTE 13 BELOW), THE HOLD PERIOD SHALL BE EXTENDED TO 60 MINUTES. ALL OTHER INCREMENTS SHALL BE HELD LONG ENOUGH TO OBTAIN THE MOVEMENT READING, BUT NOT SHORTER THAN 1 MINUTE.
- ACCEPTANCE CRITERIA - IN GENERAL, A TESTED ANCHOR WILL BE CONSIDERED ACCEPTABLE IF, IN THE OPINION OF THE ENGINEER, IT MEETS ALL OF THE FOLLOWING CRITERIA:
 - CREEP SHALL NOT EXCEED 0.04" BETWEEN 1 AND 10 MINUTES OR 0.08" IF HELD FOR 60 MINUTES.
 - MEASURED EXTENSION SHALL NOT EXCEED THE ELASTIC EXTENSION COMPUTED BASED UPON THE FREE LENGTH PLUS 50-PERCENT OF THE BOND ZONE LENGTH OR BE LESS THAN THE ELASTIC EXTENSION COMPUTED BASED UPON 90-PERCENT OF THE FREE LENGTH.

TIMBER:

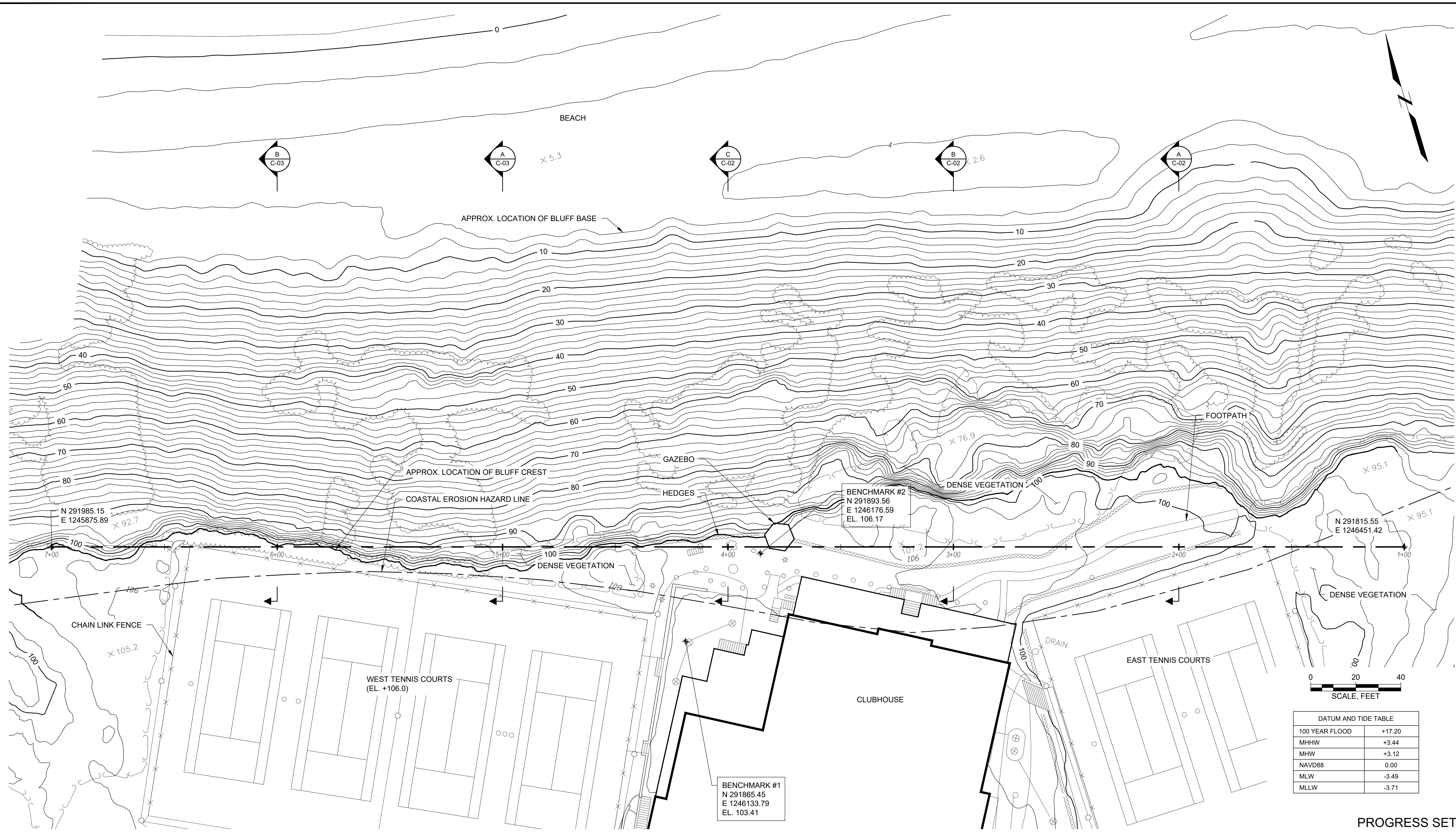
- UNLESS OTHERWISE SPECIFIED, ALL TIMBER TO BE USED SHALL BE NO. 2 SOUTHERN PINE AS GRADED BY SPIB AND WITH DESIGN VALUES PER NFPA NATIONAL DESIGN SPECIFICATION OR THE EQUIVALENT FOR DOUGLAS FIR AS GRADED BY WCLIB AND WWPA.
- ALL TIMBER SHALL BE NEW AND SUPPLIED WITH NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED. TIMBER SHALL BE FINISHED S4S UNLESS NOTED OTHERWISE.
- ALL NEW TIMBER MEMBERS TO WHICH THE PUBLIC MAY BE EXPOSED SHALL BE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) IN ACCORDANCE WITH AWPA STANDARDS TO A RETENTION OF 0.6 LBS/CU.FT OR EQUAL APPROVED.
- MISC. HARDWARE: GALVANIZED STEEL PLATES SHALL BE FASHIONED FROM STEEL AND GALVANIZED AFTER FABRICATION AND IN ACCORDANCE WITH REQUIREMENTS OF ASTM A123, AND / OR A153.
- ALL FASTENERS FOR TIMBER MATERIALS GREATER THAN 1/2" DIAMETER SHALL CONFORM TO ASTM A307, GR. A FOR MILD STEEL BOLTS UNLESS OTHERWISE NOTED AND SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM SPECIFICATIONS A-123 AND A-153.
- ALL FASTENERS FOR TIMBER MATERIALS 1/2" NOMINAL DIAMETER AND LESS SHALL BE STAINLESS STEEL CONFORMING TO ASTM F593.

	CATCH BASIN
	DRAIN MANHOLE
	ELECTRIC MANHOLE
	SEWER MANHOLE
	TELEPHONE MANHOLE
	HYDRANT
	LIGHT POLE
	UTILITY POLE
	WATER VALVE
	LADDER
	BOLLARD
	BUILDING
	GATE POST
	METAL POST
	SIGN POST
	GAS GATE
	GAS VALVE
	DECIDUOUS TREE WITH TRUNK DIAMETER
	CONIFEROUS TREE WITH TRUNK DIAMETER
	RIM ELEVATION EQUALS
	INVERT ELEVATION EQUALS
	NO PIPES VISIBLE
	TOP OF DIRT ELEVATION EQUALS
	TOP OF WATER ELEVATION EQUALS
	BOTTOM OF CHANNEL ELEVATION EQUALS
	WOOD FENCE
	LANDSCAPED AREA
	BITUMINOUS CONCRETE
	SOIL BORING
	TOP OF WALL ELEVATION
	SPOT GRADE ELEVATION
	MEAN LOW WATER
	UNDERGROUND DRAIN LINE
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND GAS LINE
	UNDERGROUND SEWER LINE
	UNDERGROUND TELEPHONE LINE
	OVERHEAD WATER LINE
	OVERHEAD WIRES
	CONTROL POINT
	PROPERTY LINE
	FENCE
	GUARD RAIL
	MONITORING WELL
	FEDERAL NAVIGATION PROJECT LIMIT

100 YEAR FLOOD	+17.20
MHHW	+3.44
MHW	+3.12
NAVD88	0.00
MLW	-3.49
MLLW	-3.71

PROGRESS SET

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			<p>Drawn: BPM, JSF</p>					<p>Checked: RJT</p>	<p>Approved: -</p>	<p>P.E. No: -</p>	<p>GEI Project 1700835</p>	PROJECT NOTES	G-02



DATUM AND TIDE TABLE	
100 YEAR FLOOD	+17.20
MHHW	+3.44
MHW	+3.12
NAVD88	0.00
MLW	-3.49
MLLW	-3.71

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DRAFT

Designed:	GJW
Drawn:	BPM, JSF
Checked:	RJT
Approved:	-
P.E. No.:	-
GEI Project	1700835



INCORPORATED
VILLAGE OF PORT
JEFFERSON
121 WEST BROADWAY
PORT JEFFERSON, NY
11777

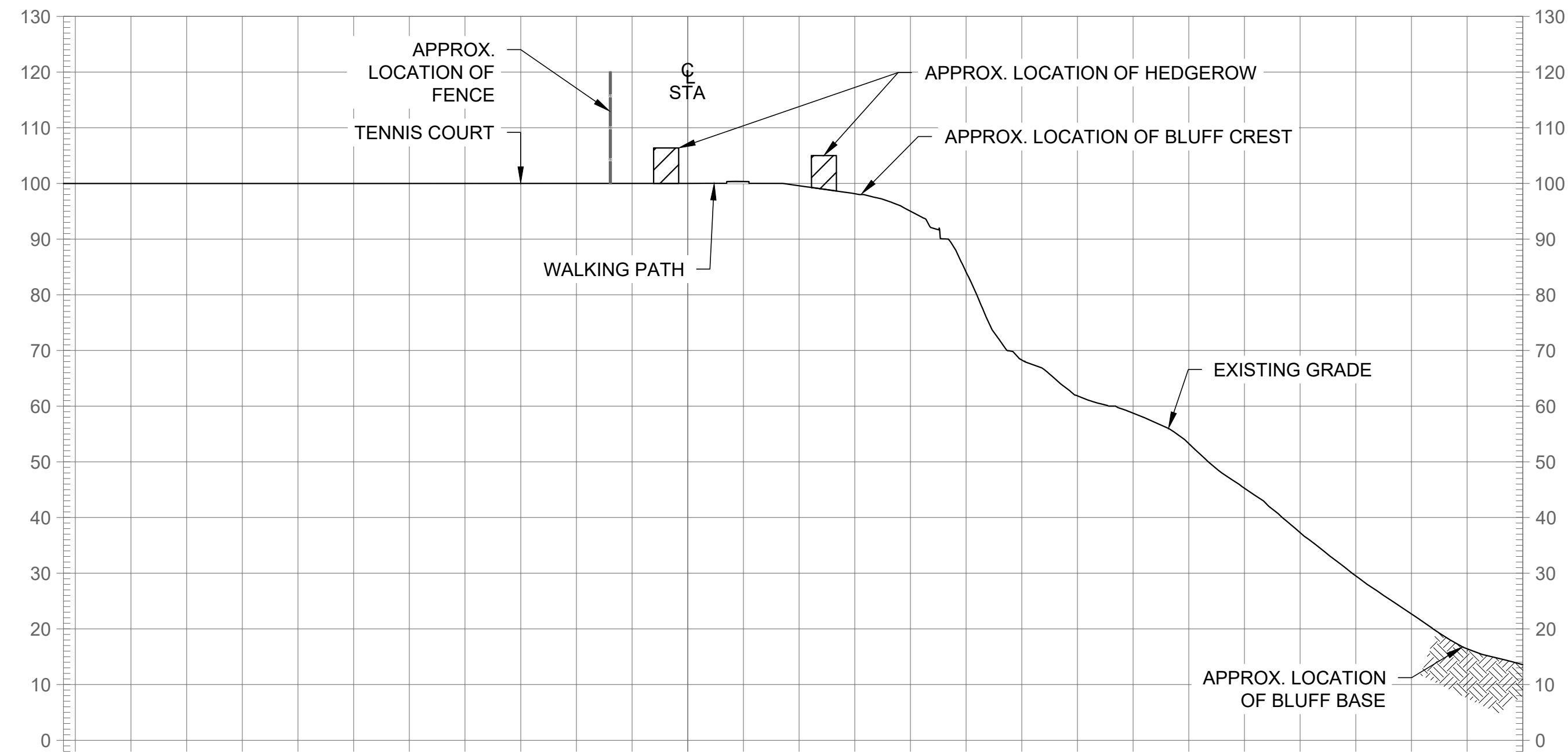
**EAST BEACH BLUFF
STABILIZATION PHASE II
BLUFF CREST
STABILIZATION**

VILLAGE OF PORT JEFFERSON, NY

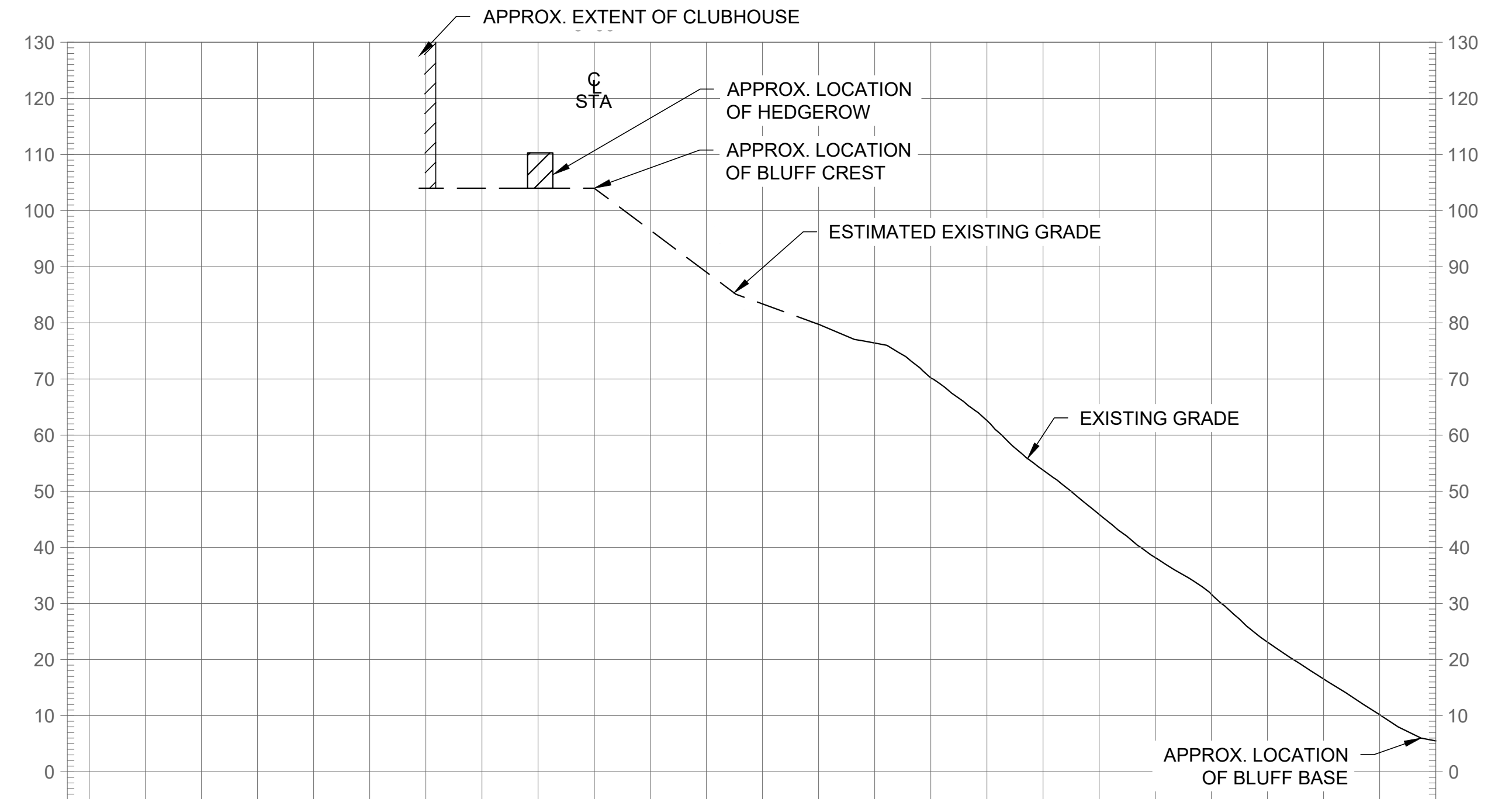
NO	DATE	ISSUE/REVISION	APP

SHEET NAME
**EXISTING CONDITIONS
- PLAN**

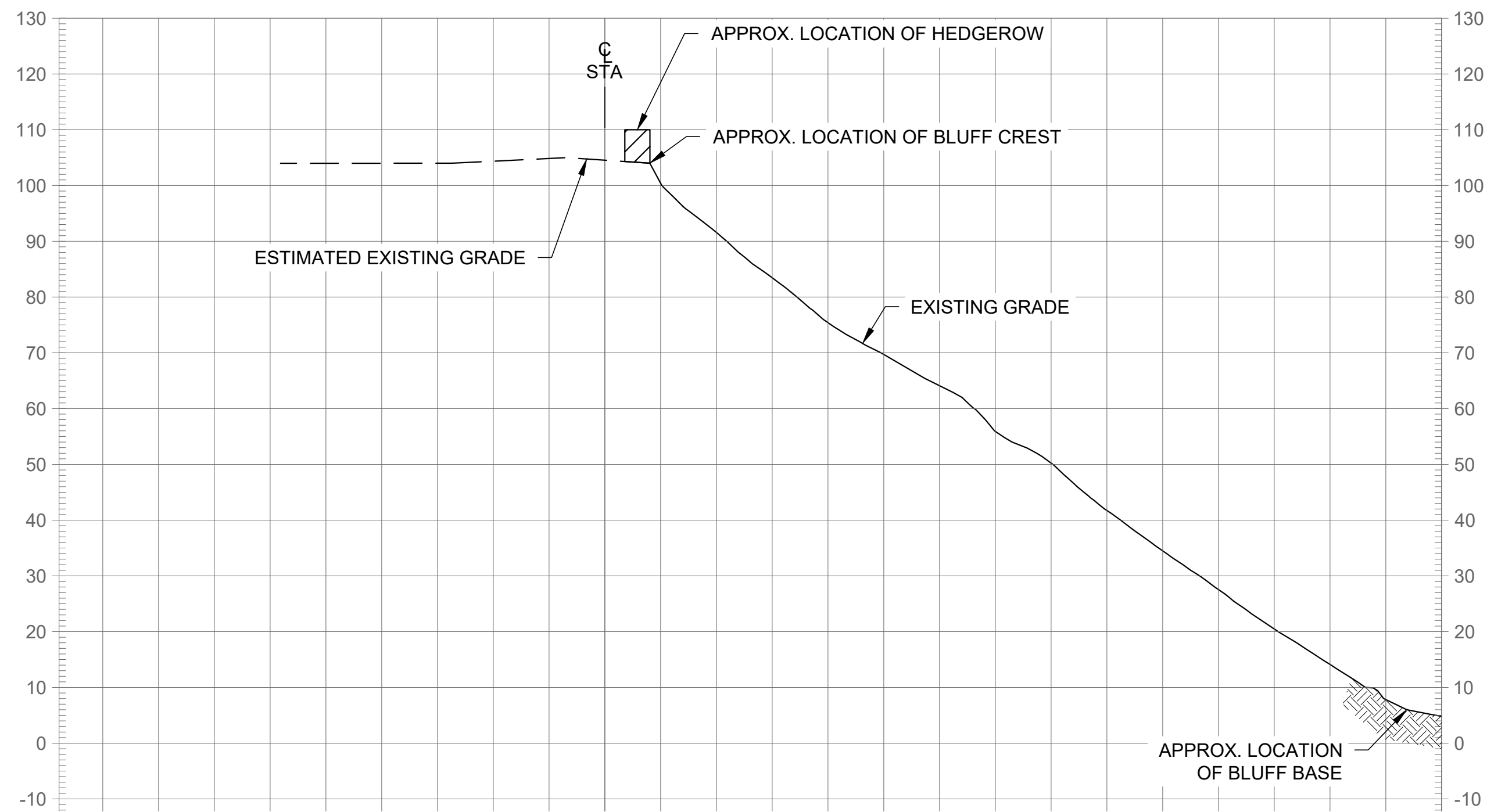
SHEET NO.
C-01



A
C-01 EXISTING SLOPE STA 2+00 - SECTION
SCALE: 1"=20'-0"



B
C-01 EXISTING SLOPE STA 3+00 - SECTION
SCALE: 1"=20'-0"



C
C-01 EXISTING SLOPE STA 4+00 - SECTION
SCALE: 1"=20'-0"



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INCORPORATED
VILLAGE OF PORT JEFFERSON
121 WEST BROADWAY
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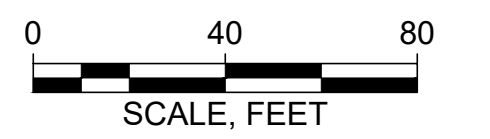
**EAST BEACH BLUFF
STABILIZATION PHASE II
BLUFF CREST
STABILIZATION**

VILLAGE OF PORT JEFFERSON, NY

NO	DATE	ISSUE/REVISION	APP

SHEET NAME
**EXISTING CONDITIONS
- SECTIONS - I**

SHEET NO.
C-02



DATUM AND TIDE TABLE	
100 YEAR FLOOD	+17.20
MHHW	+3.44
MHW	+3.12
NAVD88	0.00
MLW	-3.49
MLLW	-3.71

PROGRESS SET

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS AND REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

Attention:

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DRAFT

Designed: GJW
 Drawn: BPM, JSF
 Checked: RJT
 Approved: -
 P.E. No: -
 GEI Project 1700835



INCORPORATED
 VILLAGE OF PORT JEFFERSON
 121 WEST BROADWAY
 PORT JEFFERSON, NY
 11777

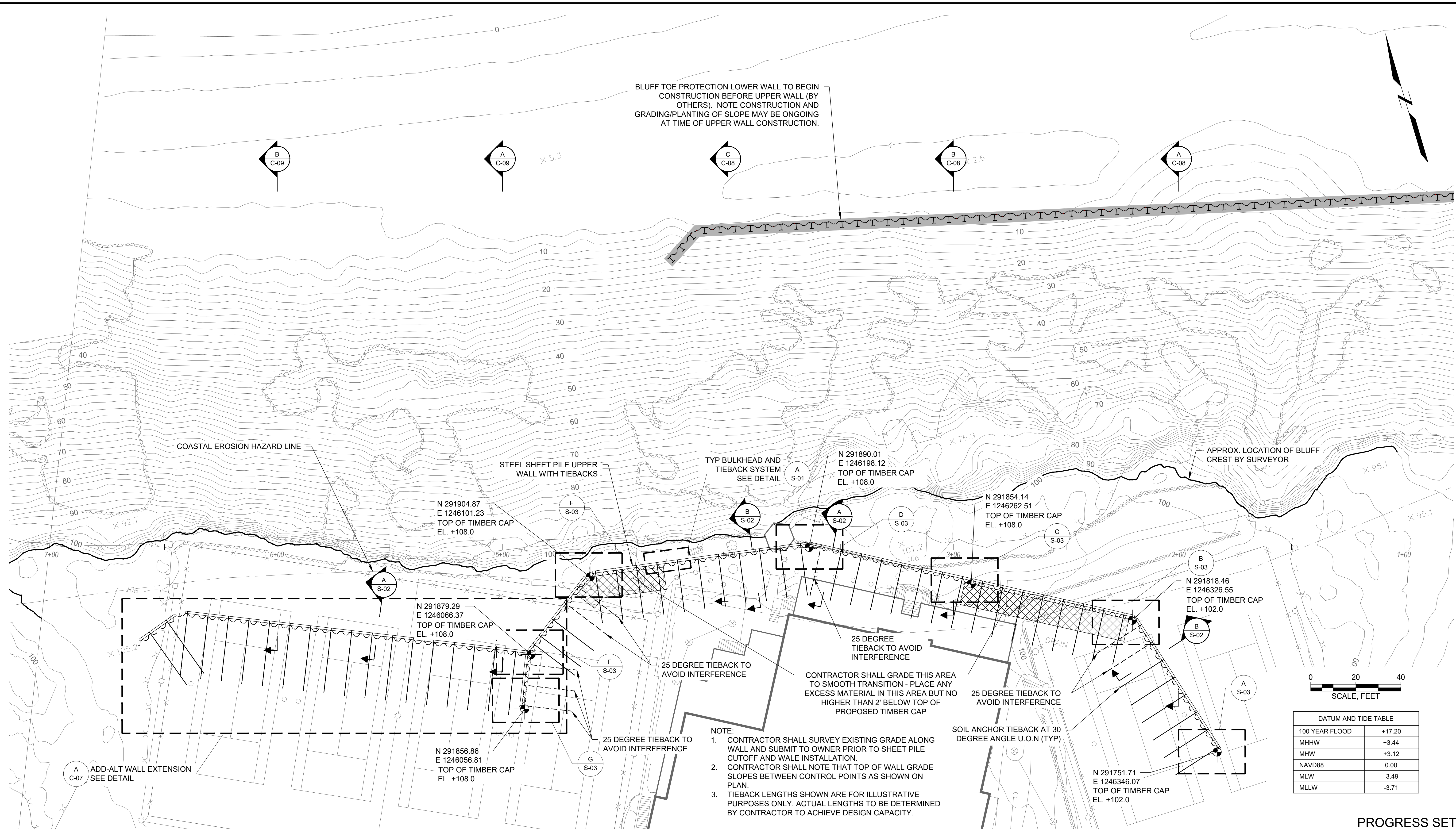
**EAST BEACH BLUFF
 STABILIZATION PHASE II
 BLUFF CREST
 STABILIZATION**

VILLAGE OF PORT JEFFERSON, NY

NO	DATE	ISSUE/REVISION	APP

SHEET NAME
**SITE ACCESS,
 STAGING, AND
 LAYDOWN AREA - PLAN**

SHEET NO.
C-05



BLUFF TOE PROTECTION LOWER WALL TO BEGIN CONSTRUCTION BEFORE UPPER WALL (BY OTHERS). NOTE CONSTRUCTION AND GRADING/PLANTING OF SLOPE MAY BE ONGOING AT TIME OF UPPER WALL CONSTRUCTION.

COASTAL EROSION HAZARD LINE

STEEL SHEET PILE UPPER WALL WITH TIEBACKS

TYP BULKHEAD AND TIEBACK SYSTEM SEE DETAIL

APPROX. LOCATION OF BLUFF CREST BY SURVEYOR

N 291904.87
E 1246101.23
TOP OF TIMBER CAP
EL. +108.0

N 291890.01
E 1246198.12
TOP OF TIMBER CAP
EL. +108.0

N 291854.14
E 1246262.51
TOP OF TIMBER CAP
EL. +108.0

N 291818.46
E 1246326.55
TOP OF TIMBER CAP
EL. +102.0

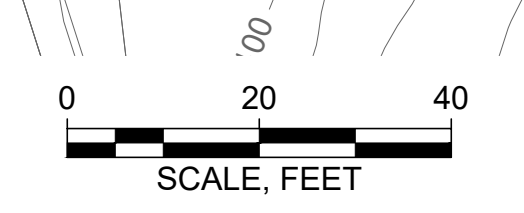
N 291879.29
E 1246066.37
TOP OF TIMBER CAP
EL. +108.0

N 291856.86
E 1246056.81
TOP OF TIMBER CAP
EL. +108.0

N 291751.71
E 1246346.07
TOP OF TIMBER CAP
EL. +102.0

NOTE:

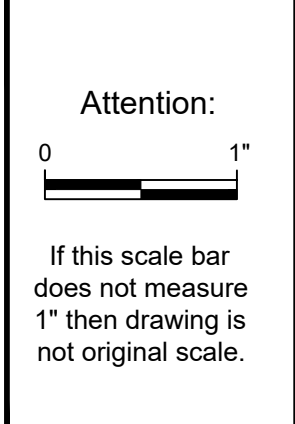
1. CONTRACTOR SHALL SURVEY EXISTING GRADE ALONG WALL AND SUBMIT TO OWNER PRIOR TO SHEET PILE CUTOFF AND WALE INSTALLATION.
2. CONTRACTOR SHALL NOTE THAT TOP OF WALL GRADE SLOPES BETWEEN CONTROL POINTS AS SHOWN ON PLAN.
3. TIEBACK LENGTHS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LENGTHS TO BE DETERMINED BY CONTRACTOR TO ACHIEVE DESIGN CAPACITY.



DATUM AND TIDE TABLE	
100 YEAR FLOOD	+17.20
MHHW	+3.44
MHW	+3.12
NAVD88	0.00
MLW	-3.49
MLLW	-3.71

PROGRESS SET

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GEI Project	1700835



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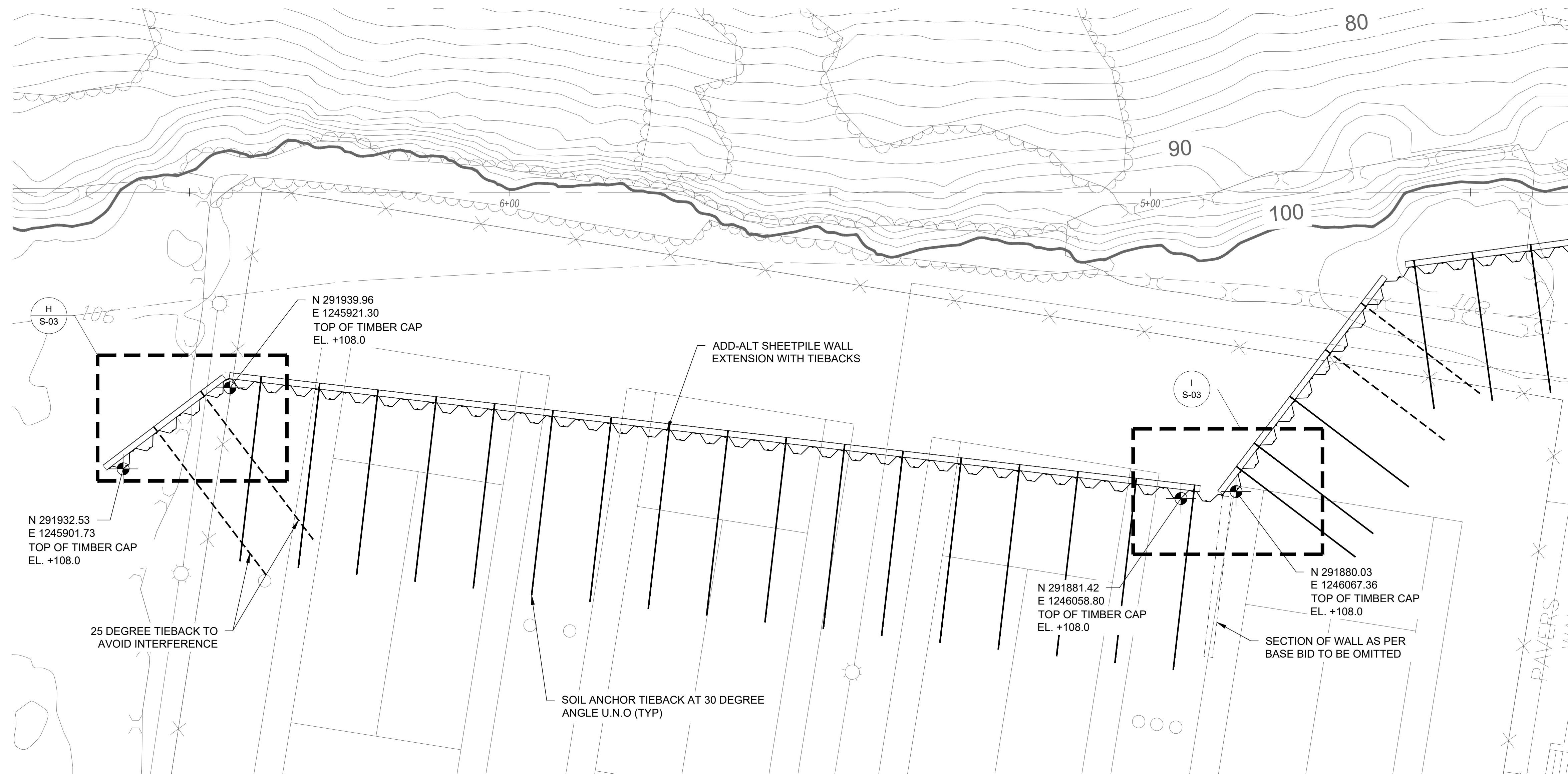
**EAST BEACH BLUFF
STABILIZATION PHASE II
BLUFF CREST
STABILIZATION**

VILLAGE OF PORT JEFFERSON, NY

NO	DATE	ISSUE/REVISION	APP

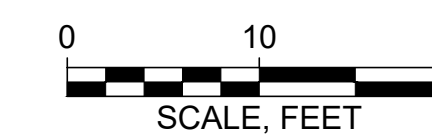
SHEET NAME
**PROPOSED CONDITIONS
- PLAN**

SHEET NO.
C-06



A ADD-ALT WALL EXTENSION
C-06 SCALE: 1"=10'-0"

- NOTE:
1. CONTRACTOR SHALL SURVEY EXISTING GRADE ALONG WALL AND SUBMIT TO OWNER PRIOR TO SHEET PILE CUTOFF AND WALE INSTALLATION.
 2. CONTRACTOR SHALL NOTE THAT TOP OF WALL GRADE SLOPES BETWEEN CONTROL POINTS AS SHOWN ON PLAN.
 3. TIEBACK LENGTHS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LENGTHS TO BE DETERMINED BY CONTRACTOR TO ACHIEVE DESIGN CAPACITY.



DATUM AND TIDE TABLE	
100 YEAR FLOOD	+17.20
MHHW	+3.44
MHW	+3.12
NAVD88	0.00
MLW	-3.49
MLLW	-3.71

PROGRESS SET

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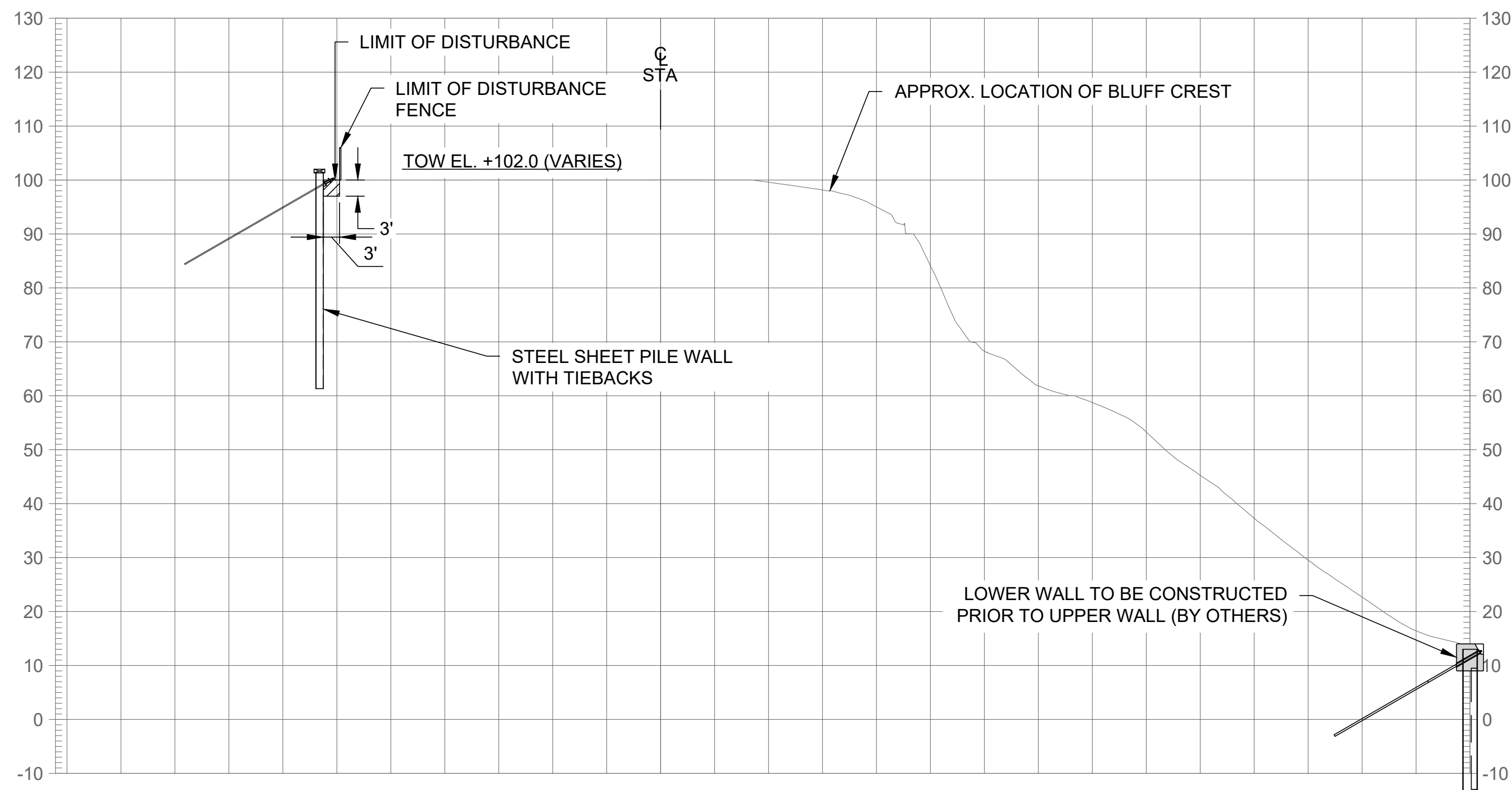
**EAST BEACH BLUFF
STABILIZATION PHASE II
BLUFF CREST
STABILIZATION**

VILLAGE OF PORT JEFFERSON, NY

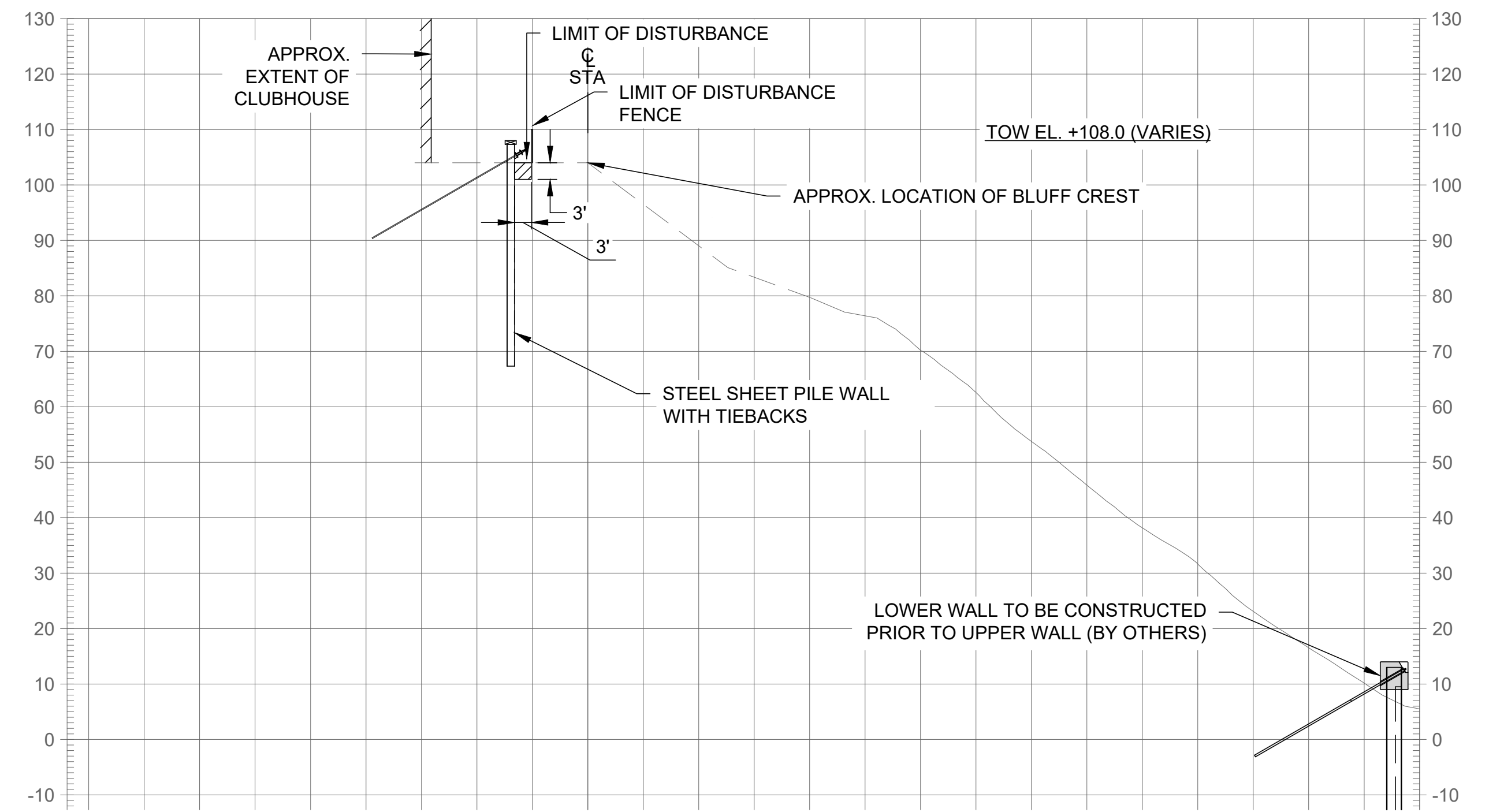
NO	DATE	ISSUE/REVISION	APP

SHEET NAME
**PROPOSED CONDITIONS
- WALL EXTENSION PLAN**

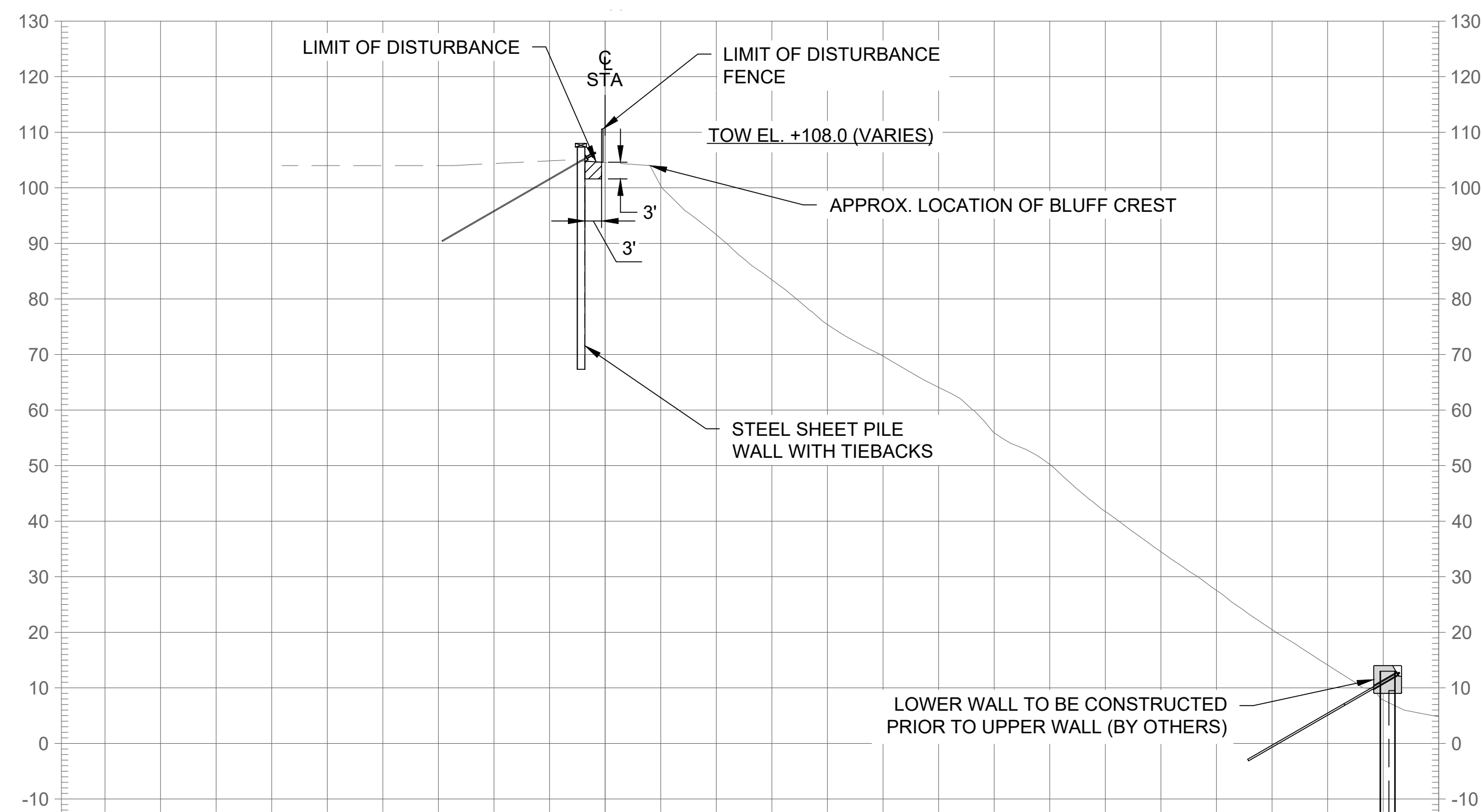
SHEET NO.
C-07



A EXISTING SLOPE STA 2+00 - SECTION
 C-06 SCALE: 1"=20'-0"



B EXISTING SLOPE STA 3+00 - SECTION
 C-06 SCALE: 1"=20'-0"



C EXISTING SLOPE STA 4+00 - SECTION
 C-06 SCALE: 1"=20'-0"



PROGRESS SET

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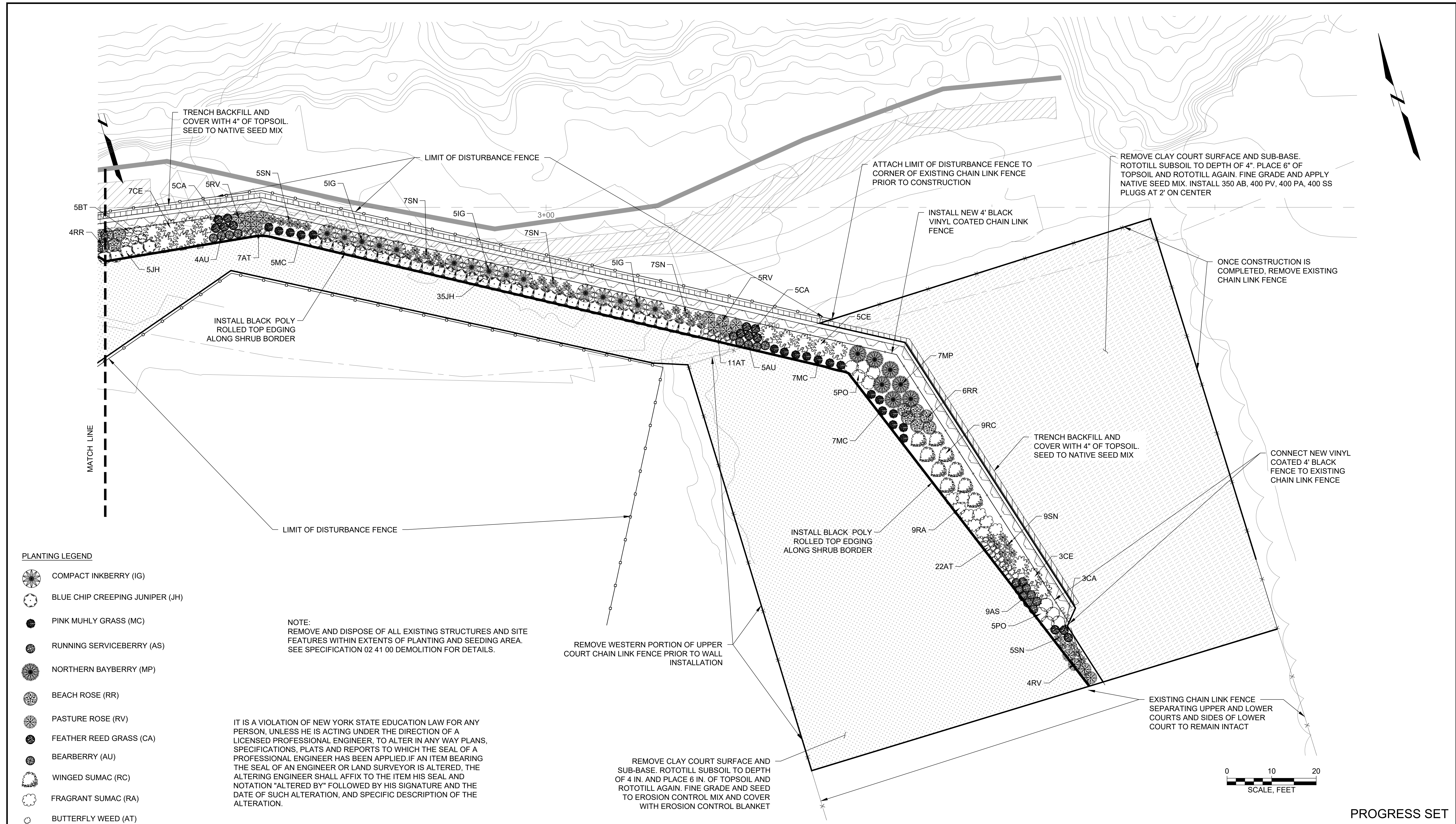
**EAST BEACH BLUFF
 STABILIZATION PHASE II
 BLUFF CREST
 STABILIZATION**

VILLAGE OF PORT JEFFERSON, NY

NO	DATE	ISSUE/REVISION	APP

SHEET NAME
**PROPOSED CONDITIONS
 - SECTIONS I**

SHEET NO.
C-08



- PLANTING LEGEND**
- COMPACT INKBERRY (IG)
 - BLUE CHIP CREEPING JUNIPER (JH)
 - PINK MUHLY GRASS (MC)
 - RUNNING SERVICEBERRY (AS)
 - NORTHERN BAYBERRY (MP)
 - BEACH ROSE (RR)
 - PASTURE ROSE (RV)
 - FEATHER REED GRASS (CA)
 - BEARBERRY (AU)
 - WINGED SUMAC (RC)
 - FRAGRANT SUMAC (RA)
 - BUTTERFLY WEED (AT)
 - WILD INDIGO (BT)
 - NEW JERSEY TEA (CE)
 - SWEET CHERRY TEA' NINEBARK (PO)
 - NEW ENGLAND ASTER (SN)
 - NATIVE SEED MIX
 - EROSION CONTROL SEED MIX

NOTE:
REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES AND SITE FEATURES WITHIN EXTENTS OF PLANTING AND SEEDING AREA. SEE SPECIFICATION 02 41 00 DEMOLITION FOR DETAILS.

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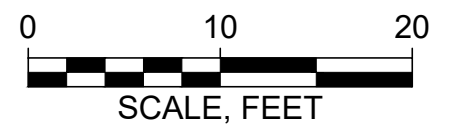
INCORPORATED VILLAGE OF PORT JEFFERSON
121 WEST BROADWAY
PORT JEFFERSON, NY 11777

**EAST BEACH BLUFF STABILIZATION PHASE II
BLUFF CREST STABILIZATION**

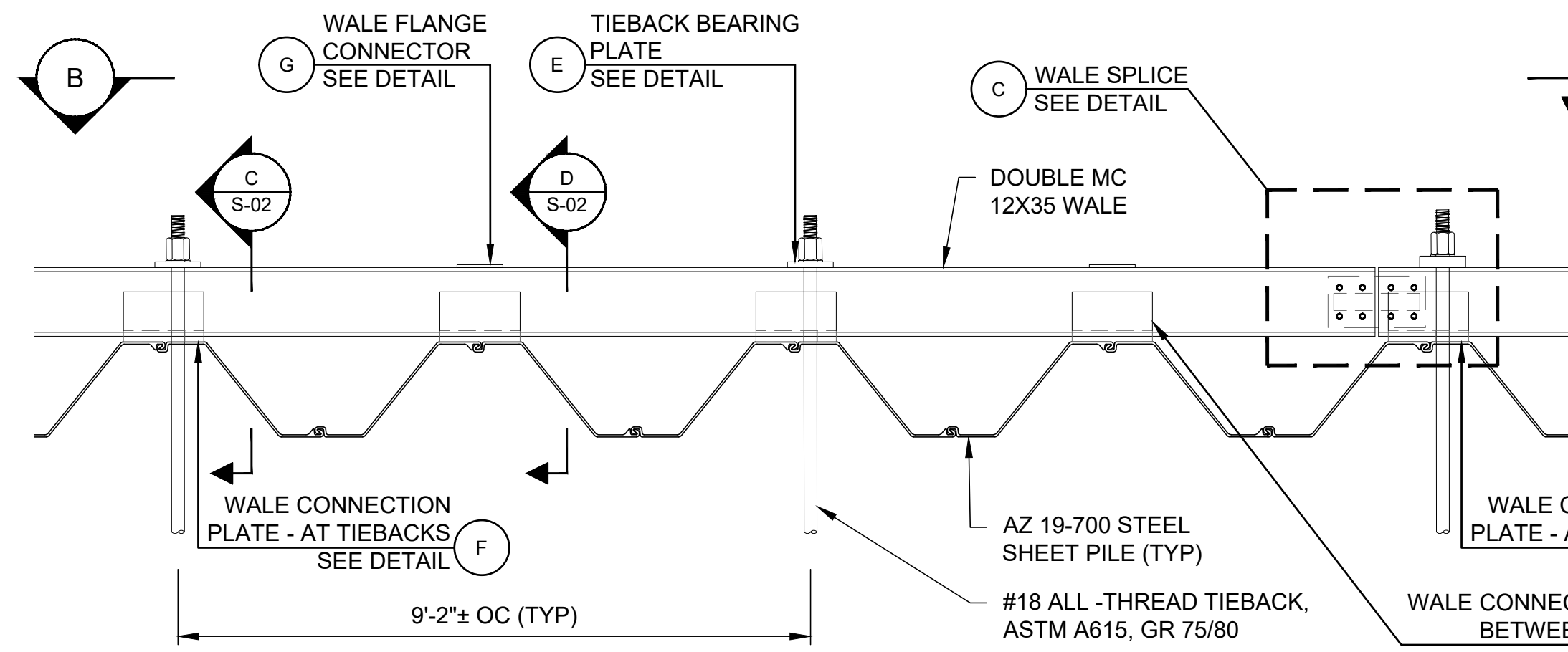
VILLAGE OF PORT JEFFERSON, NY

NO	DATE	ISSUE/REVISION	APP

SHEET NAME SITE IMPROVEMENTS, RESTORATION AND PLANTING PLAN - II	SHEET NO. L-02
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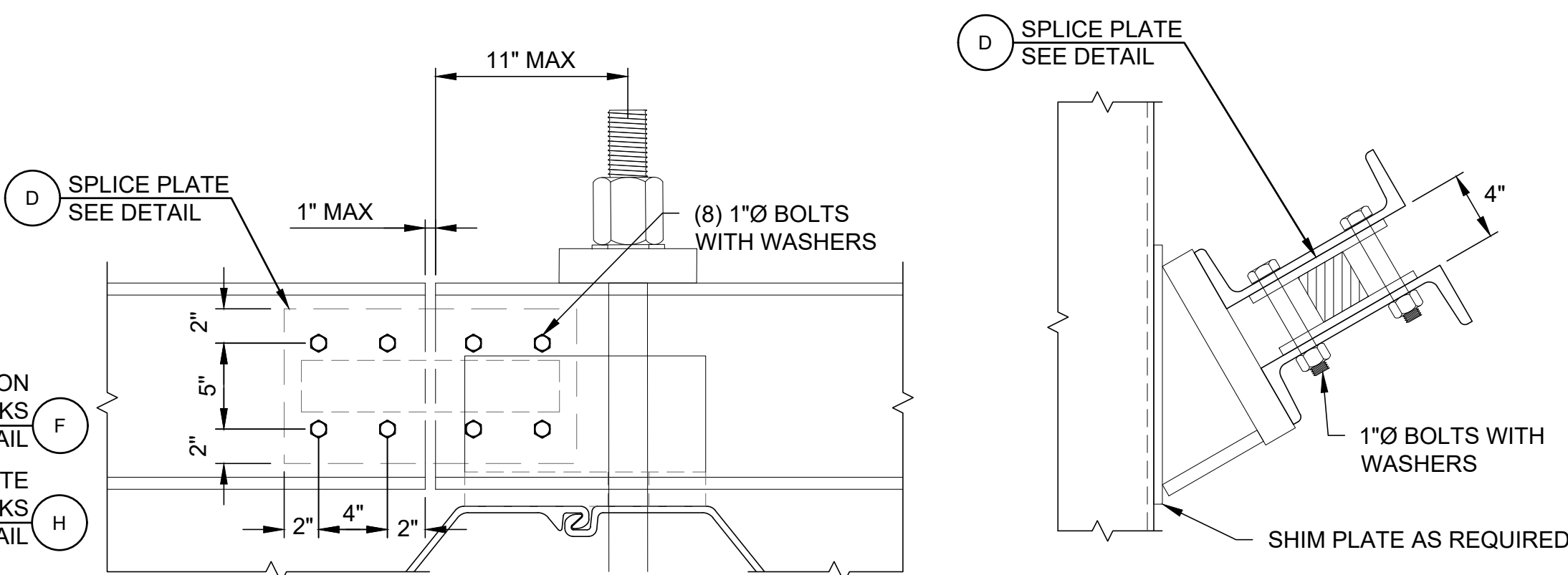


PROGRESS SET



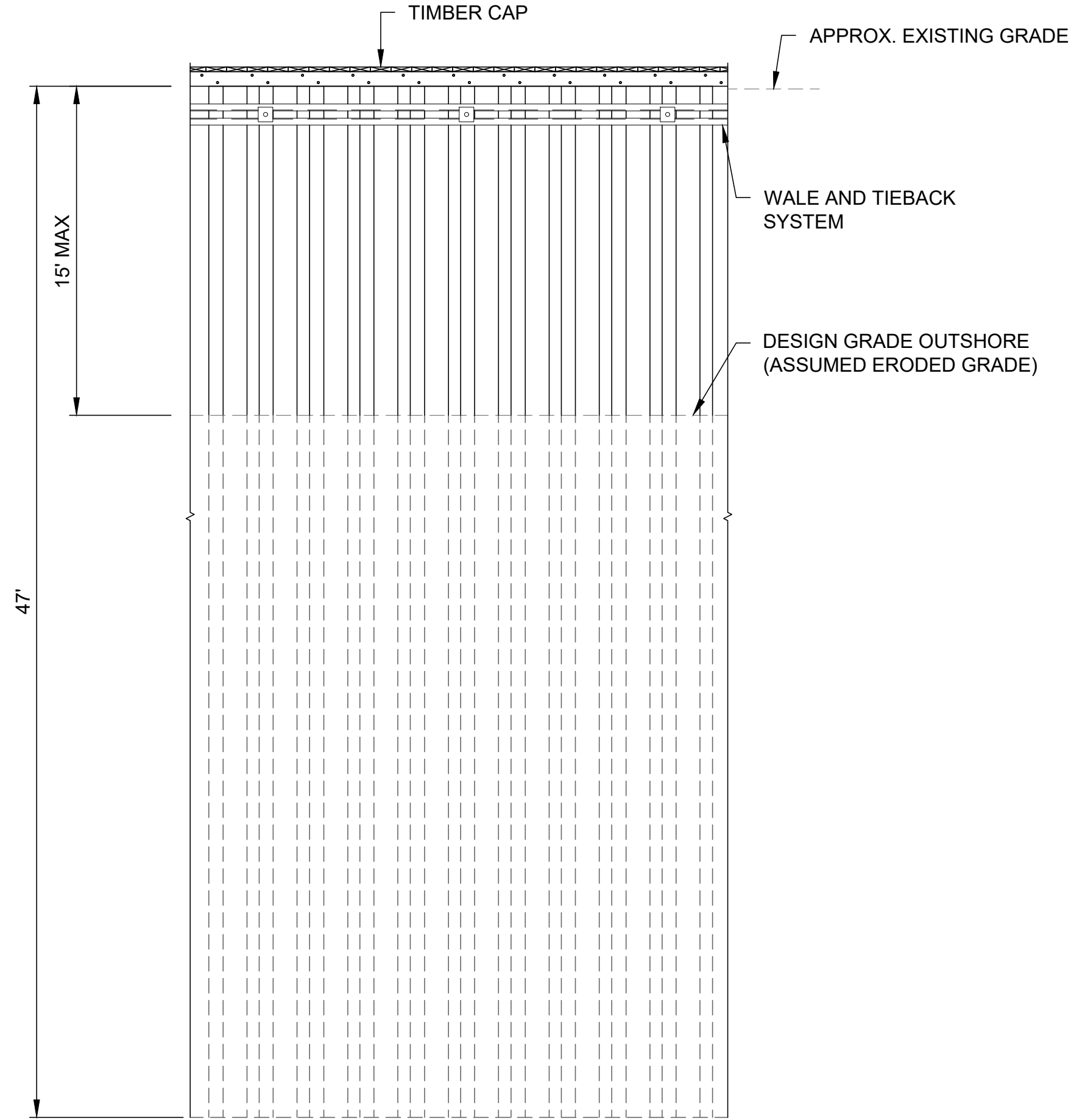
A TYPICAL BULKHEAD AND TIEBACK PLAN
C-06 SCALE: 1/2"=1'-0"

NOTE:
1. WALE IS ANGLED AS SHOWN ON SECTIONS.
2. TIMBER CAP NOT SHOWN FOR CLARITY.

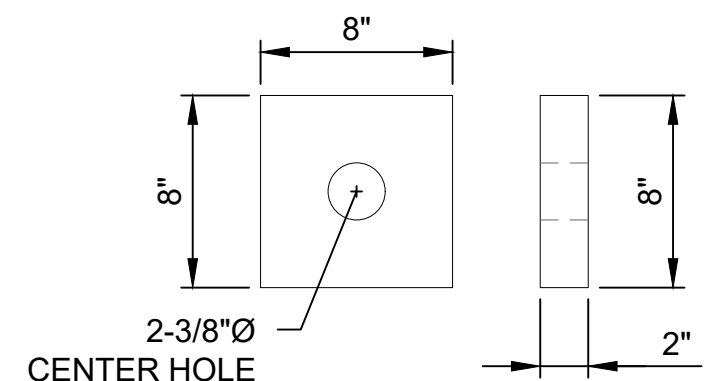


C TYPICAL WALE SPLICE DETAIL
SCALE: 1-1/2"=1'-0"

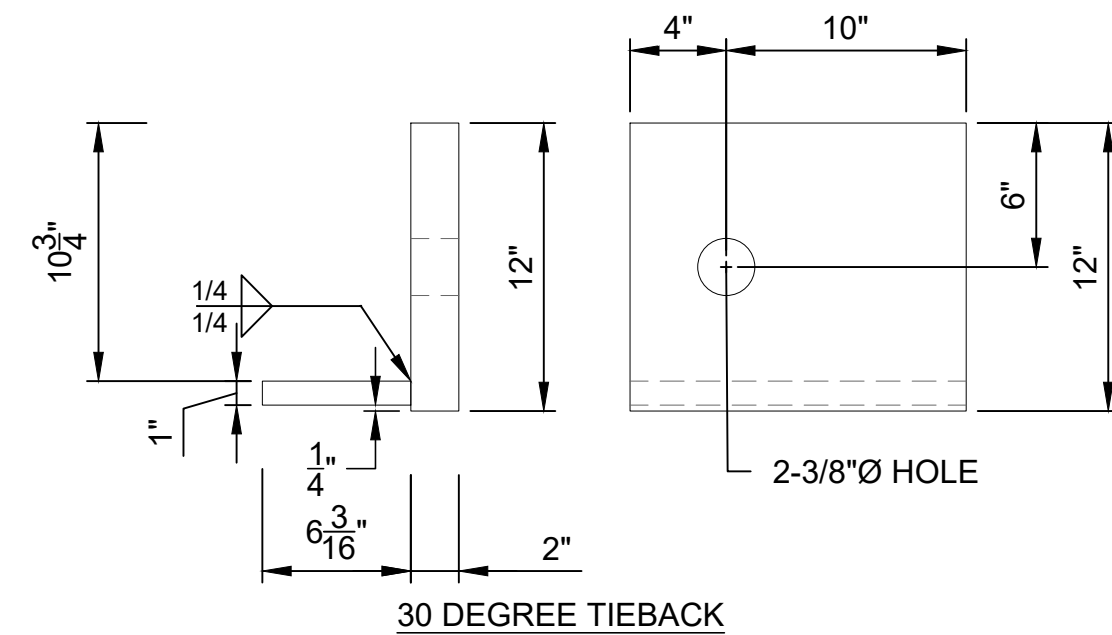
D SPLICE PLATE DETAIL
SCALE: 1"=10'-0"



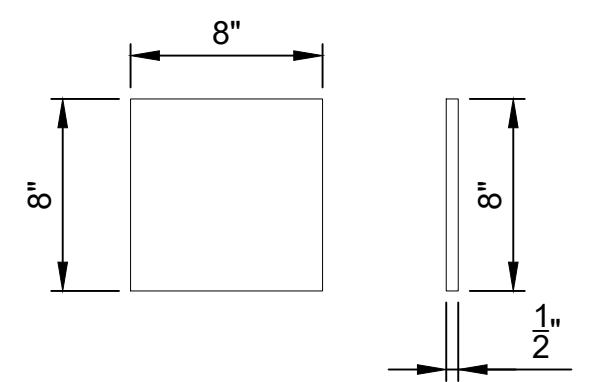
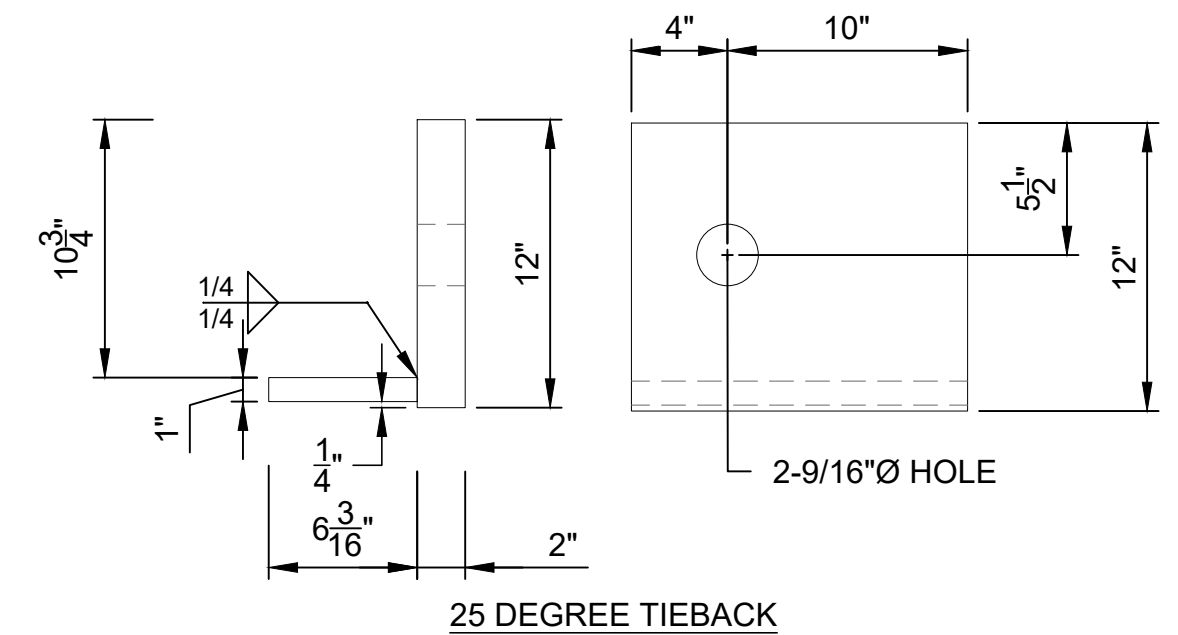
B TYPICAL BULKHEAD AND TIEBACK ELEVATION
SCALE: 3/16"=1'-0"



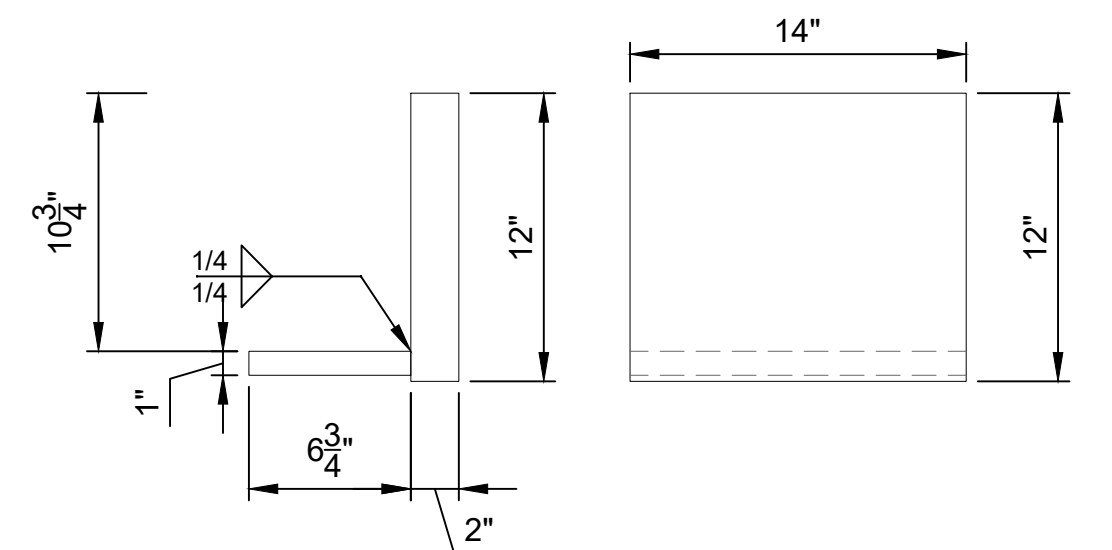
E TIEBACK BEARING PLATE
S-01 S-02 S-03
SCALE: 1-1/2"=1'-0"



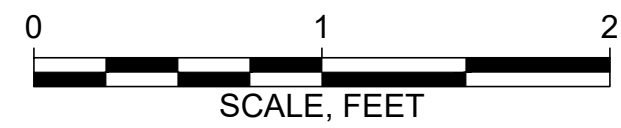
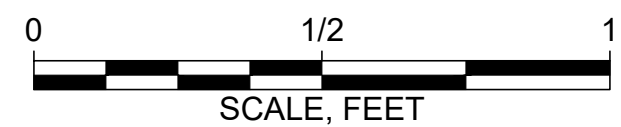
F WALE CONNECTION PLATE AT TIEBACKS
S-01 S-02 S-03
SCALE: 1-1/2"=1'-0"



G WALE FLANGE CONNECTOR
SCALE: 1-1/2"=1'-0"



H WALE CONNECTION PLATE BETWEEN TIEBACKS
S-01 S-02
SCALE: 1-1/2"=1'-0"



PROGRESS SET

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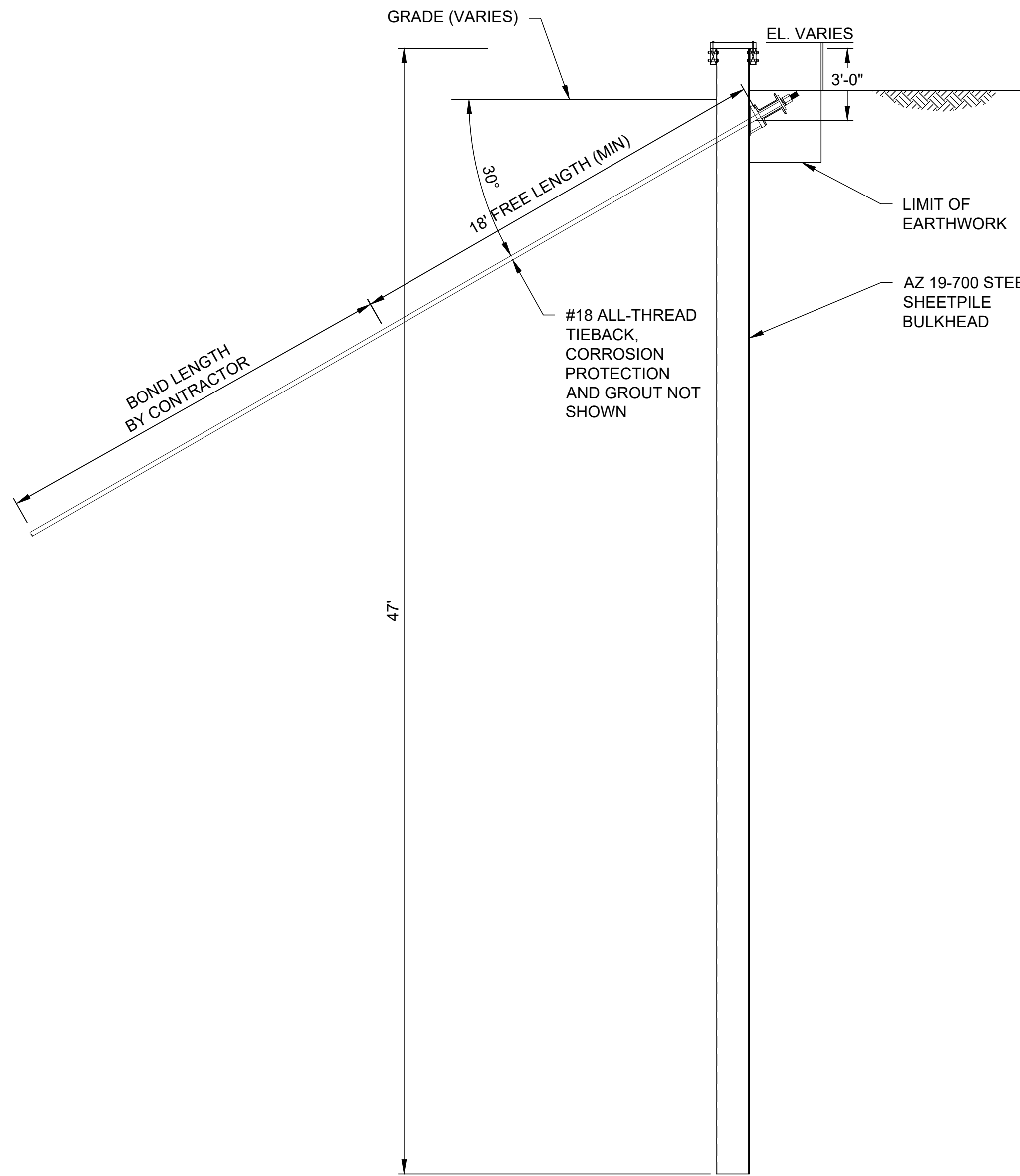
INCORPORATED
VILLAGE OF PORT JEFFERSON
121 WEST BROADWAY
PORT JEFFERSON, NY
11777

**EAST BEACH BLUFF STABILIZATION PHASE II
BLUFF CREST STABILIZATION**
VILLAGE OF PORT JEFFERSON, NY

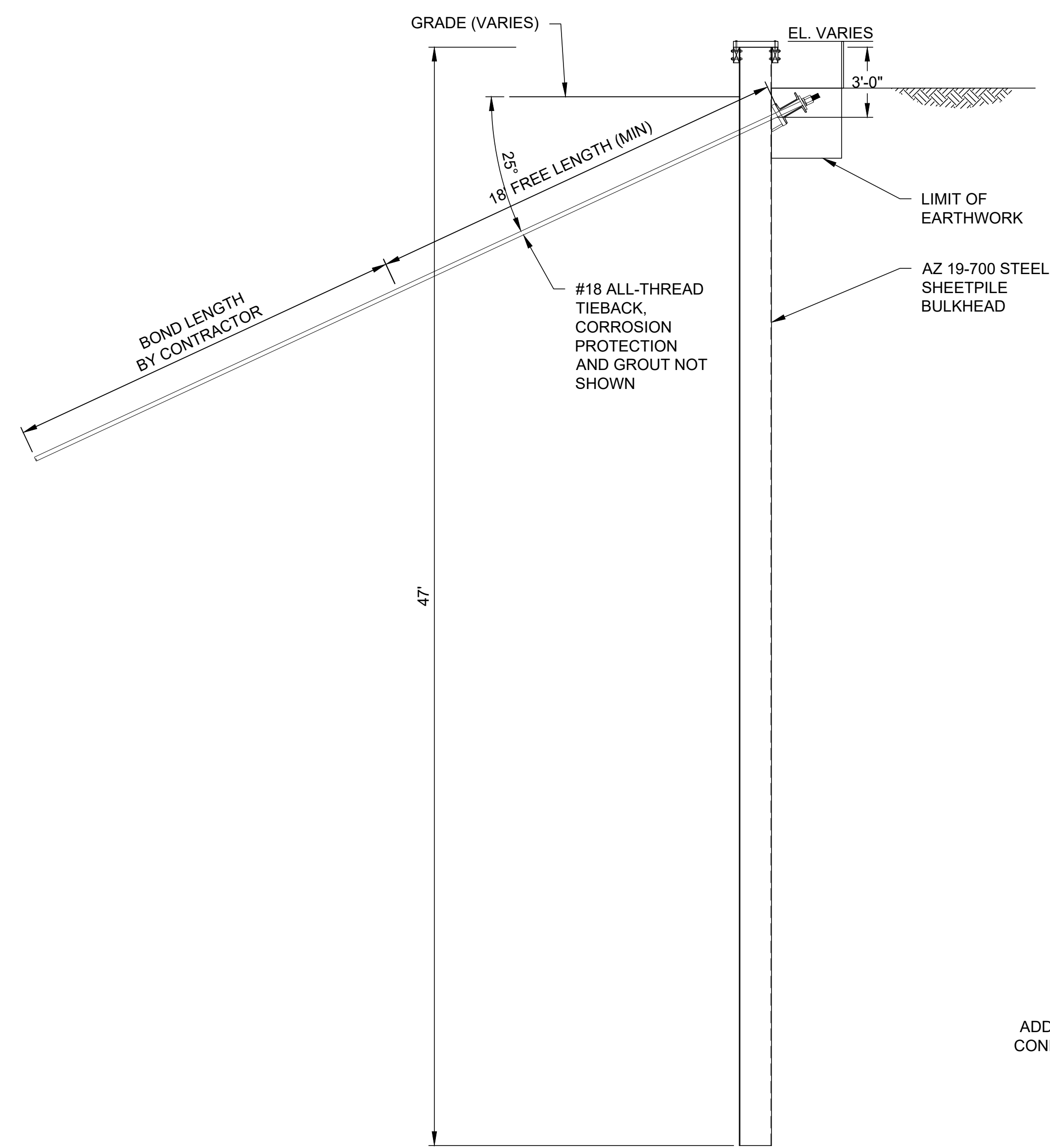
NO	DATE	ISSUE/REVISION	APP

SHEET NAME
BULKHEAD DETAILS AND SECTIONS - I

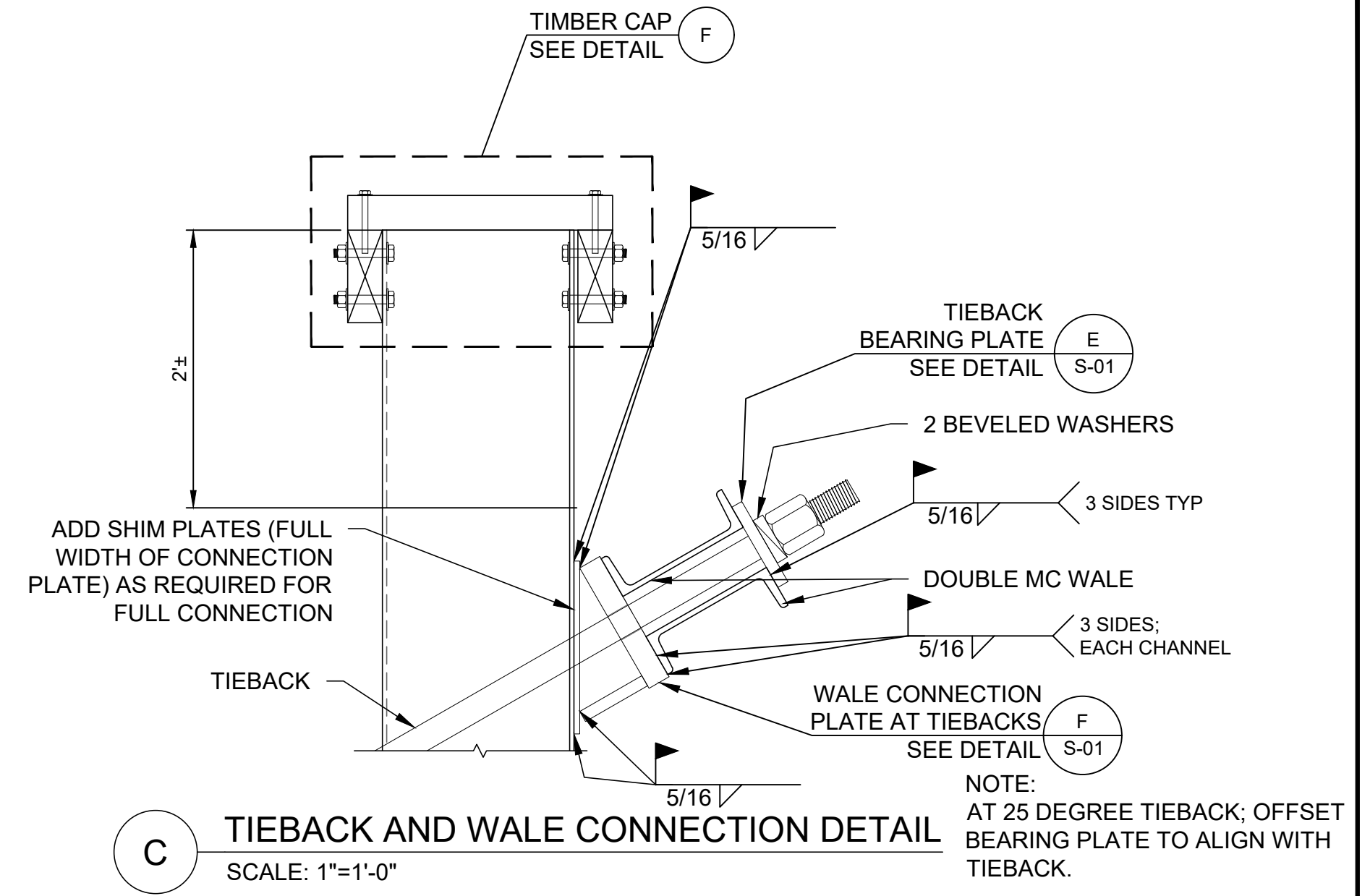
SHEET NO.
S-01



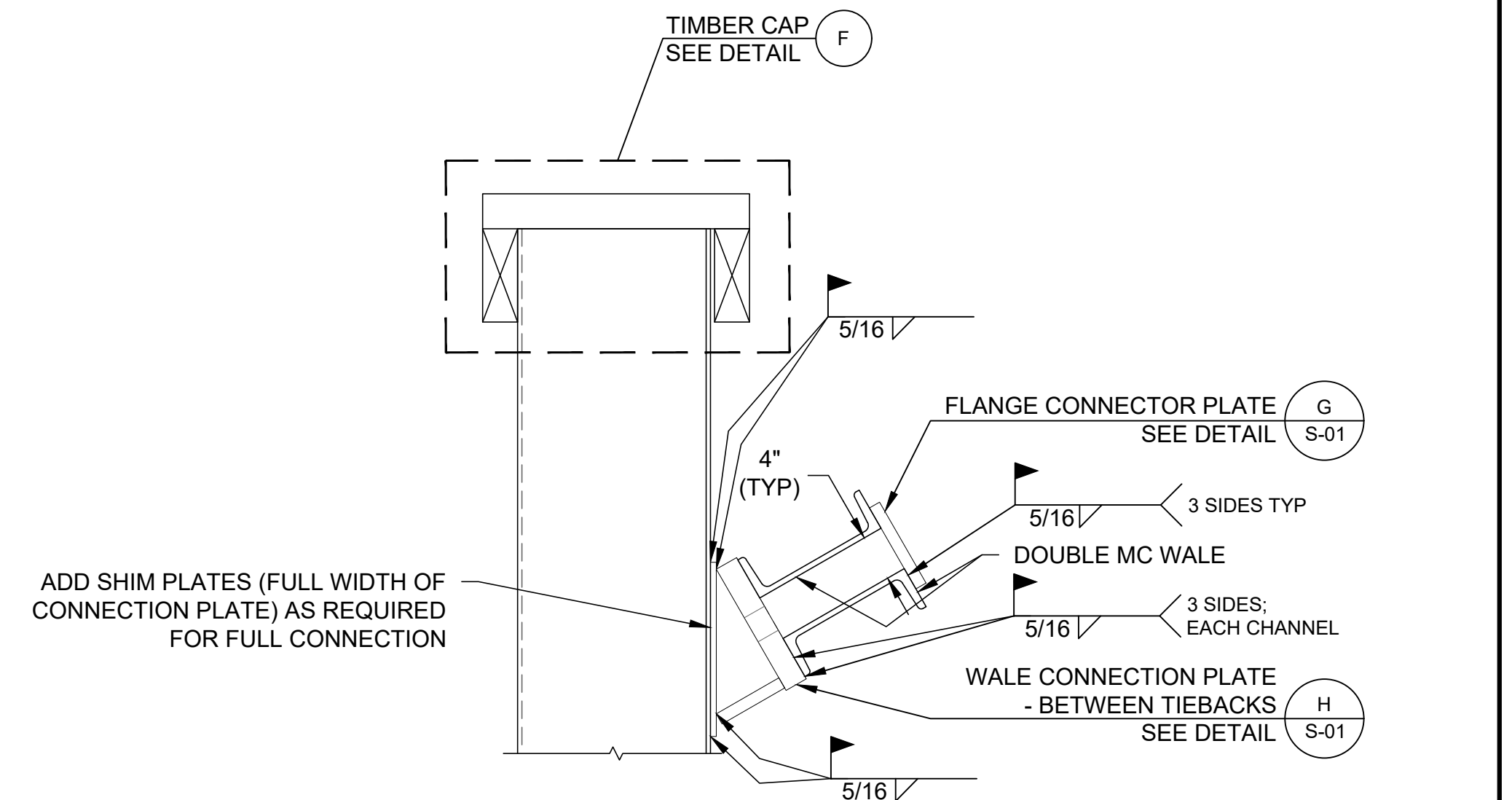
A TYPICAL BULKHEAD AND TIEBACK SECTION
SCALE: 1/4"=1'-0"



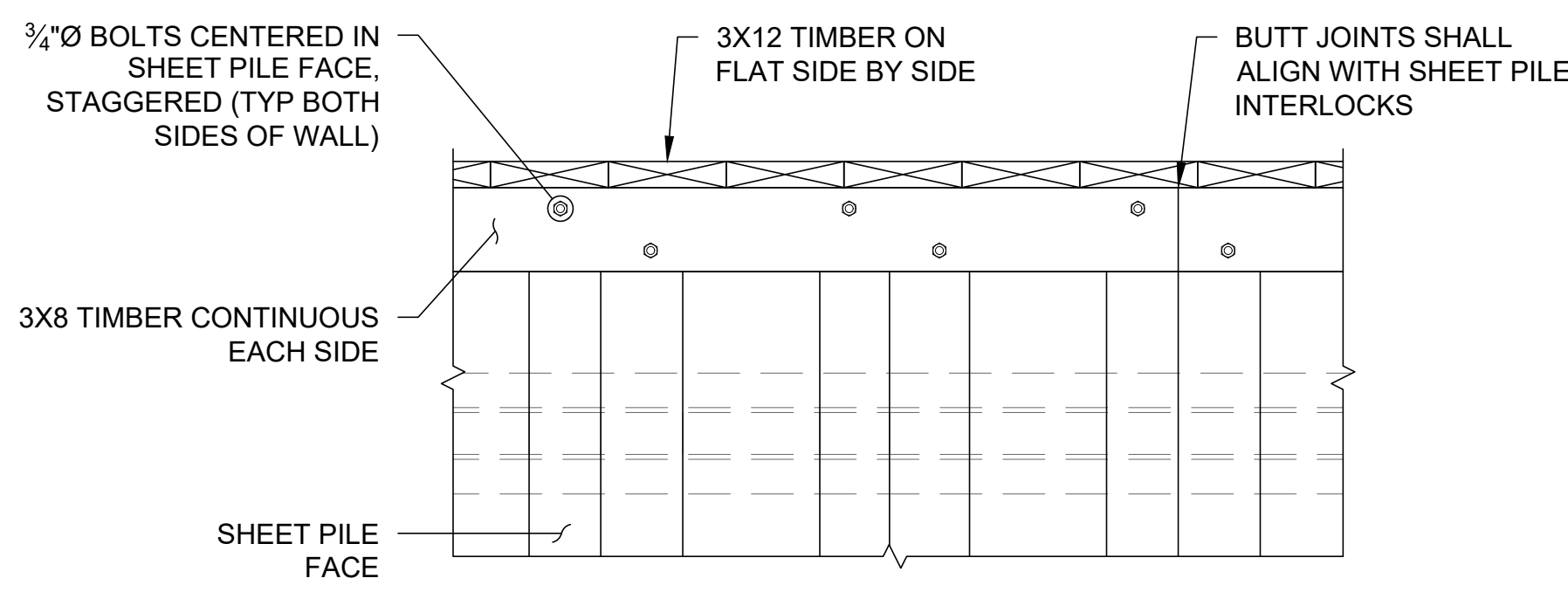
B TYPICAL BULKHEAD 25 DEGREE TIEBACK SECTION
SCALE: 1/4"=1'-0"



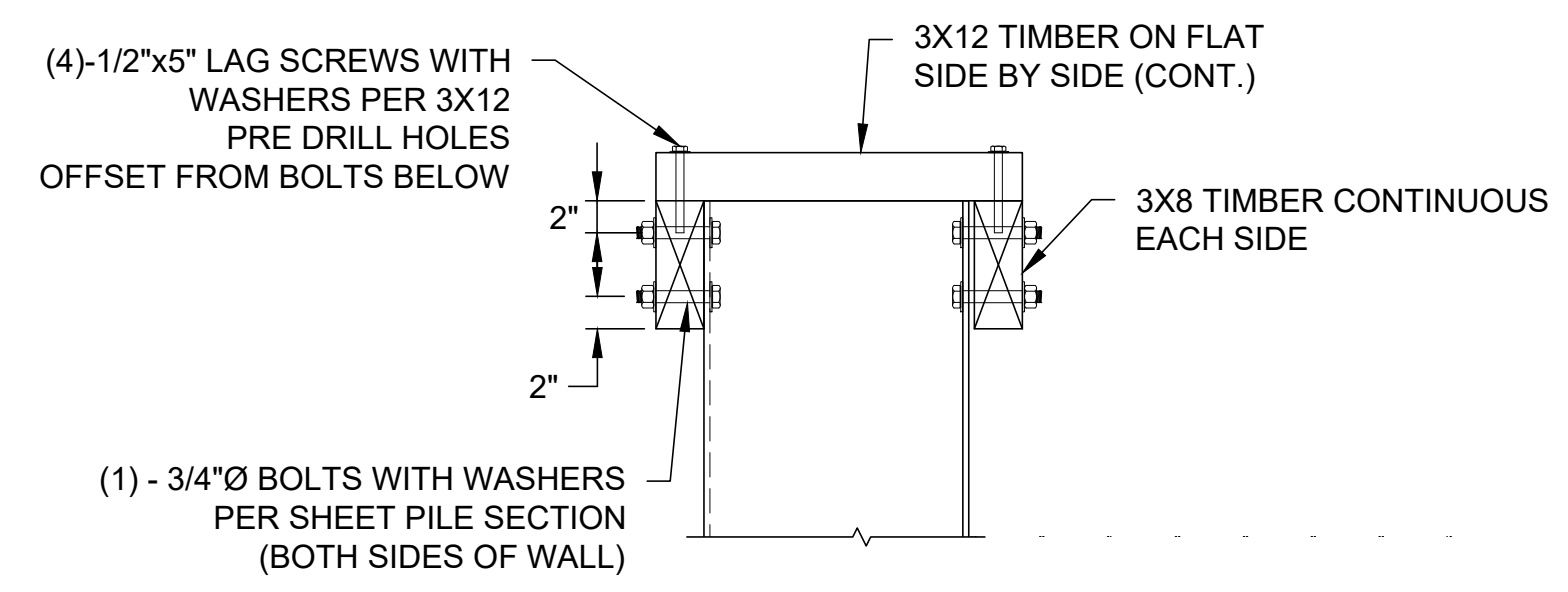
C TIEBACK AND WALE CONNECTION DETAIL
SCALE: 1"=1'-0"



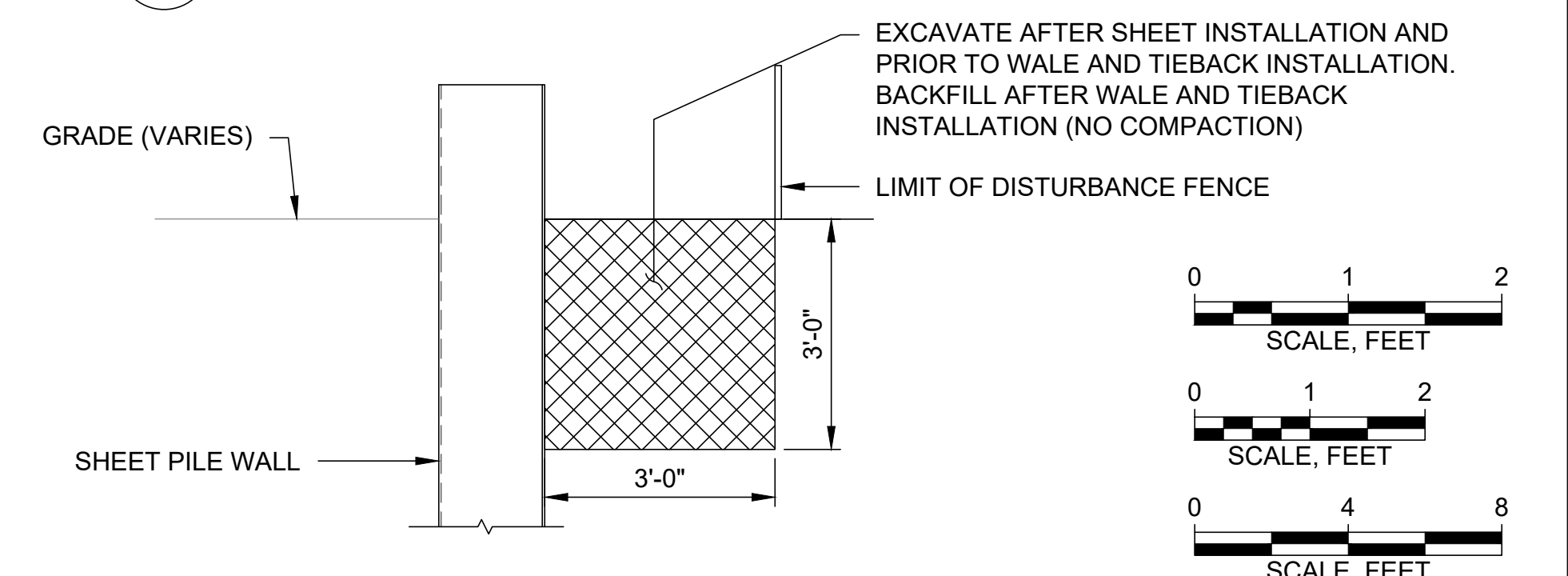
D WALE CONNECTION DETAIL - BETWEEN TIEBACKS
SCALE: 1"=1'-0"



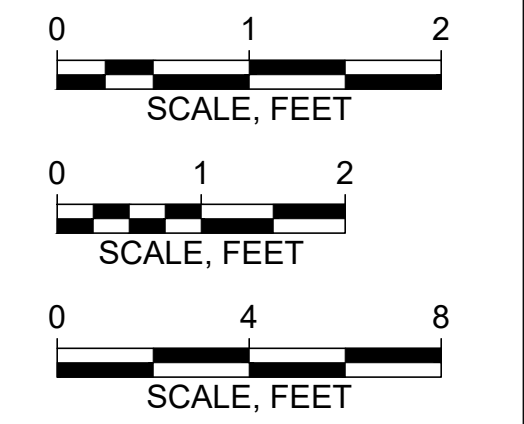
E TIMBER CAP - ELEVATION
SCALE: 3/4"=1'-0"



F TIMBER CAP - SECTION
SCALE: 1"=1'-0"



G EARTHWORK - SECTION
SCALE: 1/2"=1'-0"



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INCORPORATED VILLAGE OF PORT JEFFERSON
121 WEST BROADWAY
PORT JEFFERSON, NY 11777

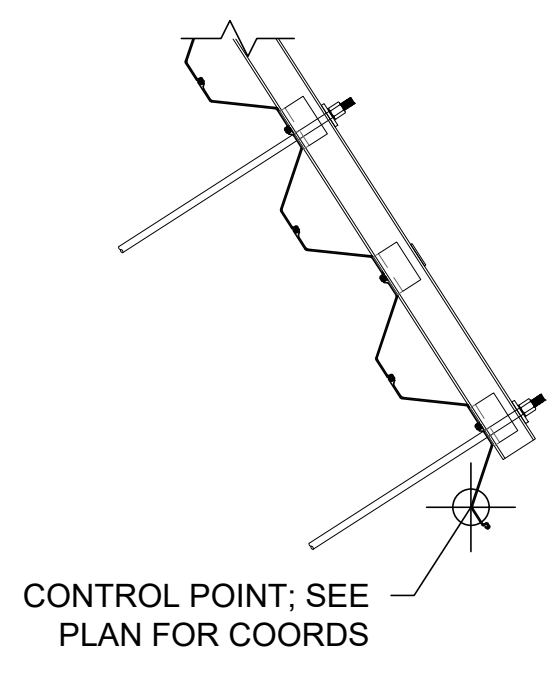
EAST BEACH BLUFF STABILIZATION PHASE II
BLUFF CREST STABILIZATION
VILLAGE OF PORT JEFFERSON, NY

NO	DATE	ISSUE/REVISION	APP

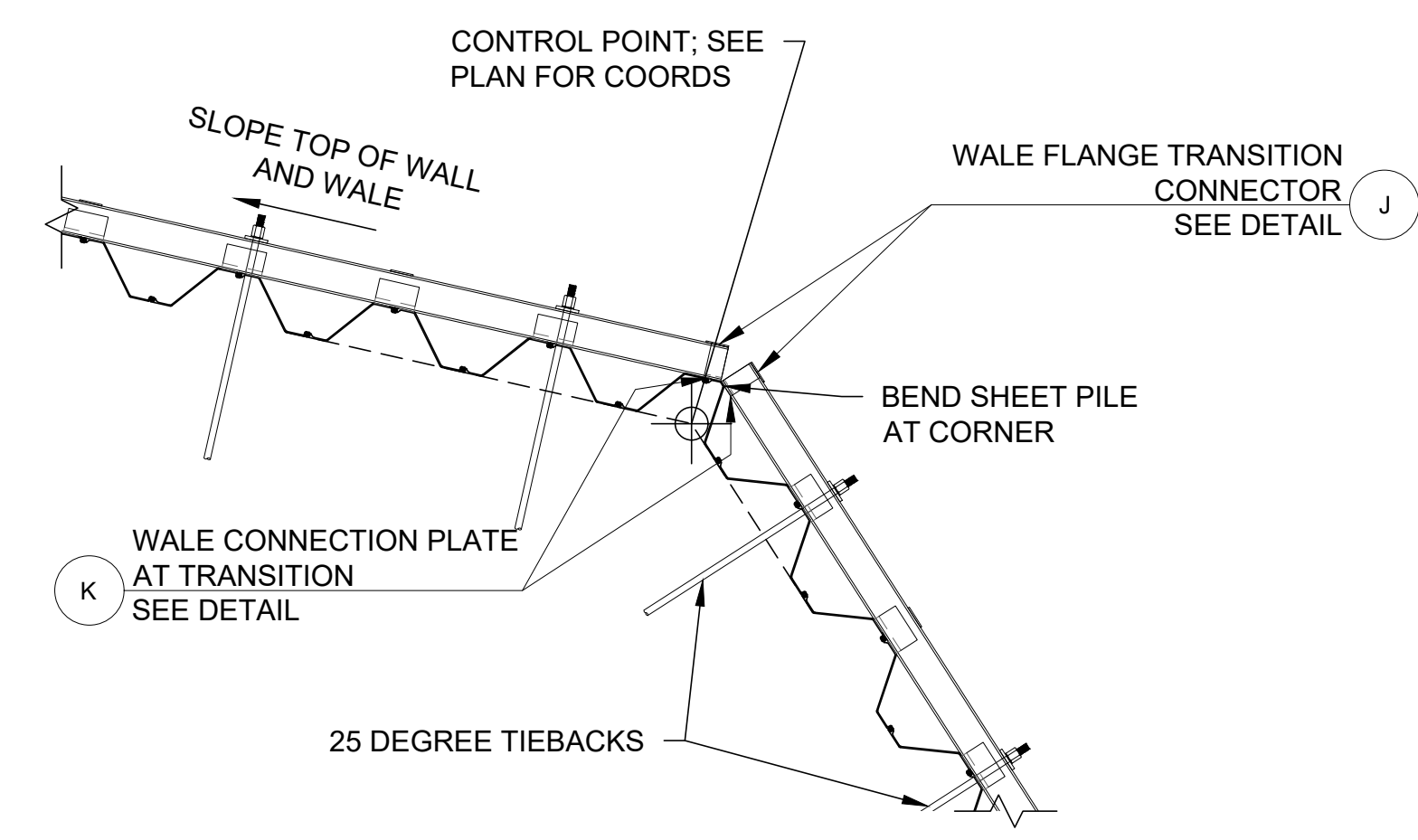
SHEET NAME
BULKHEAD DETAILS AND SECTIONS - II

SHEET NO.
S-02

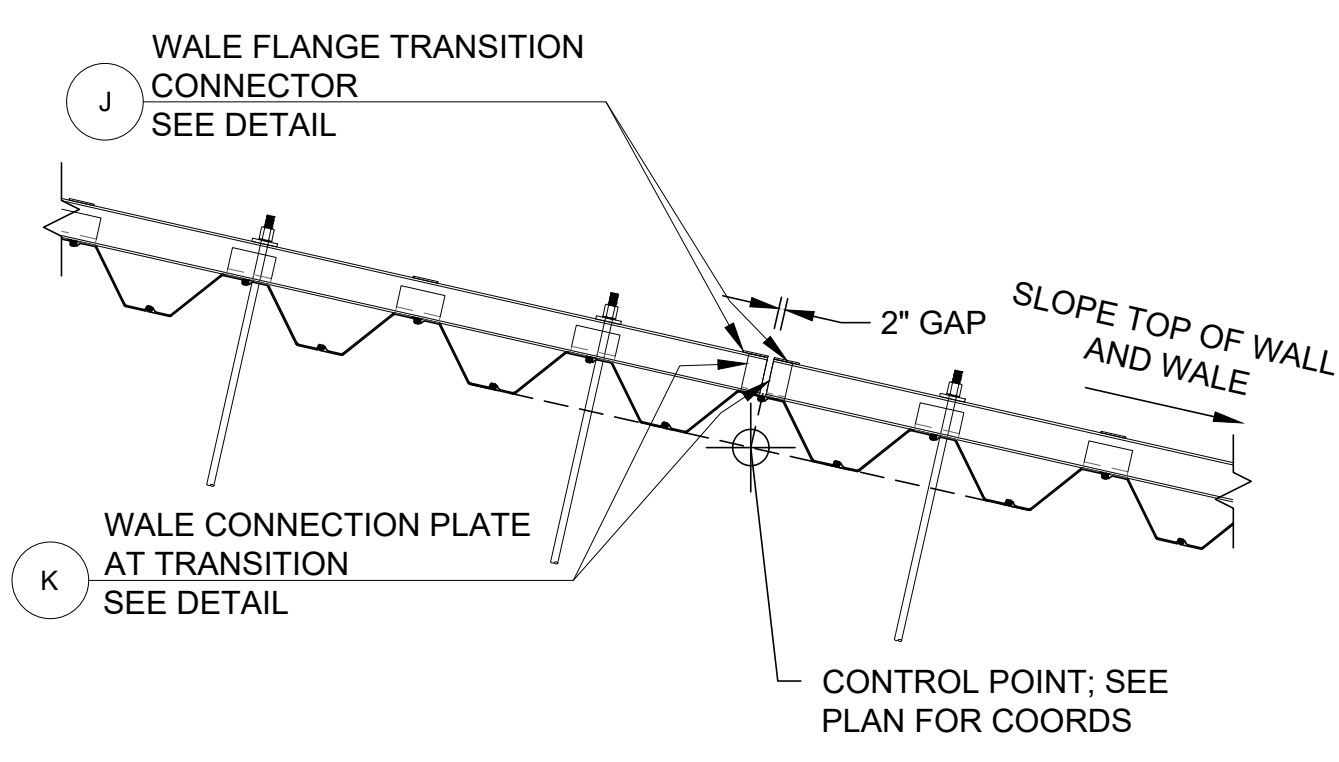
PROGRESS SET



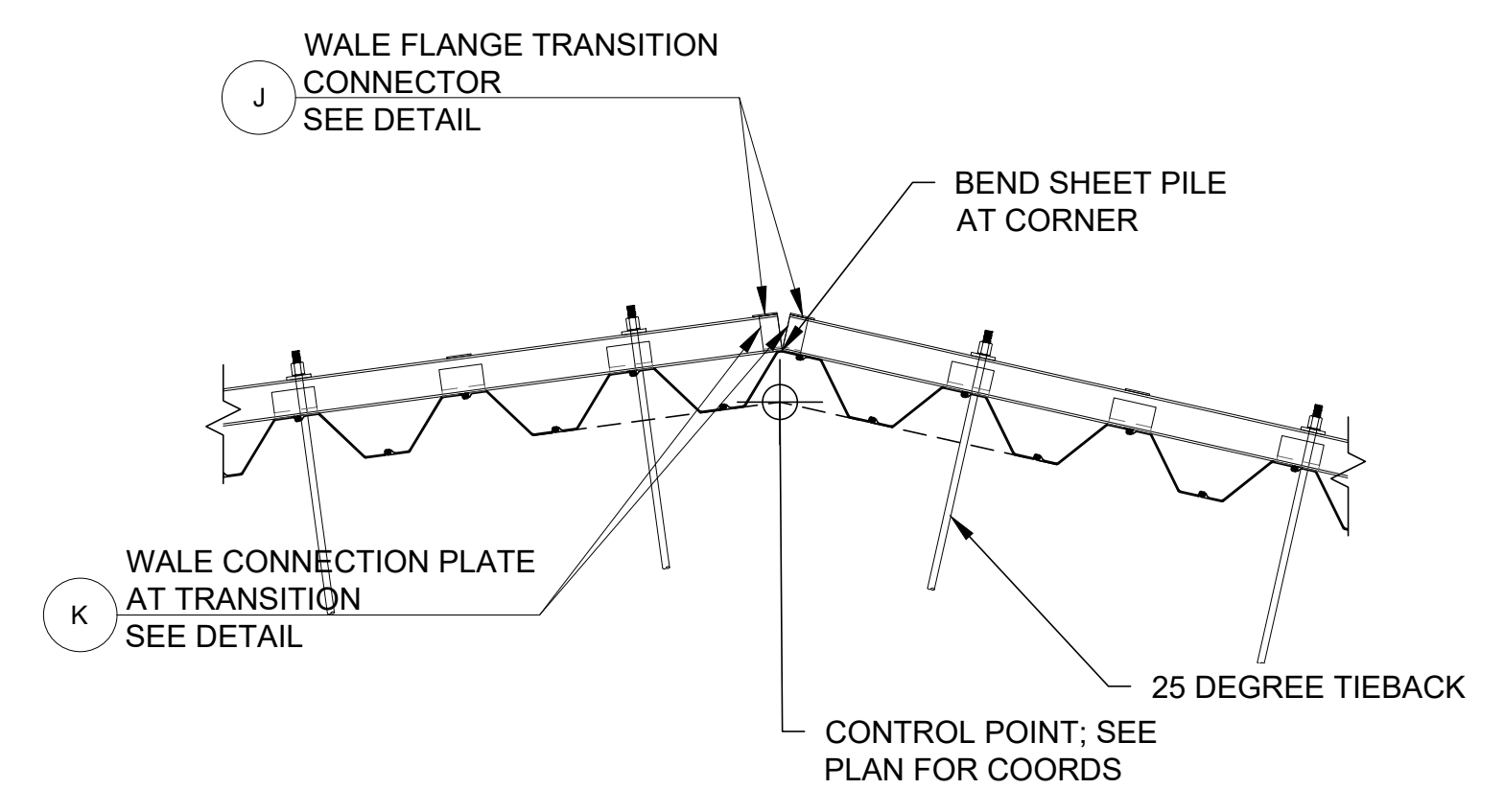
A BULKHEAD END DETAIL
C-06 SCALE: 1"=5'-0"



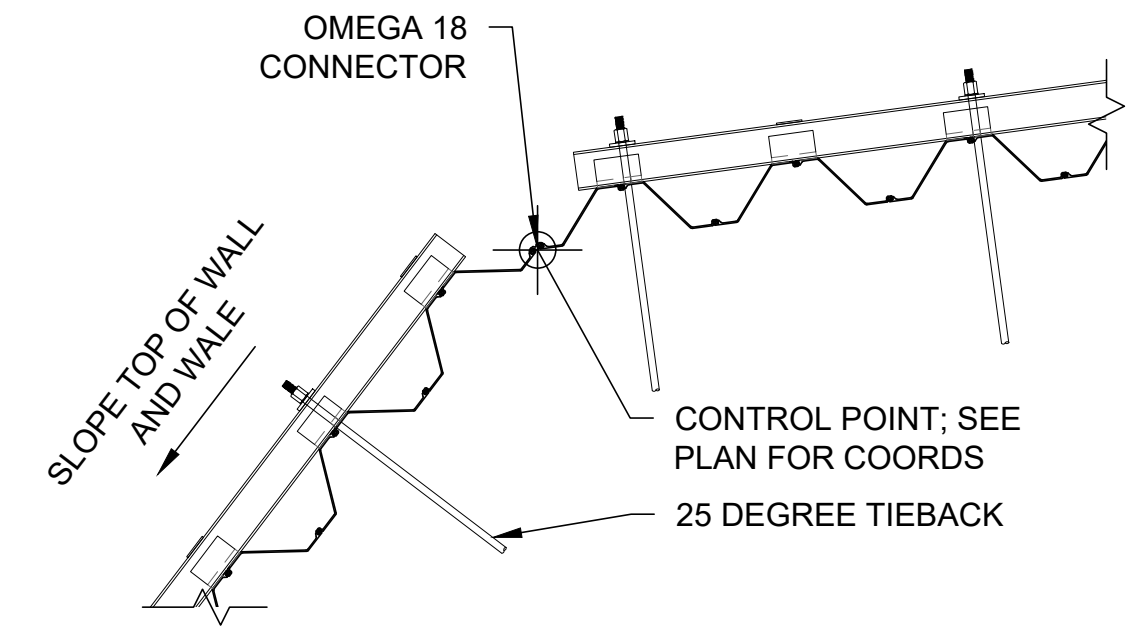
B BULKHEAD CORNER DETAIL
C-06 SCALE: 1"=5'-0"



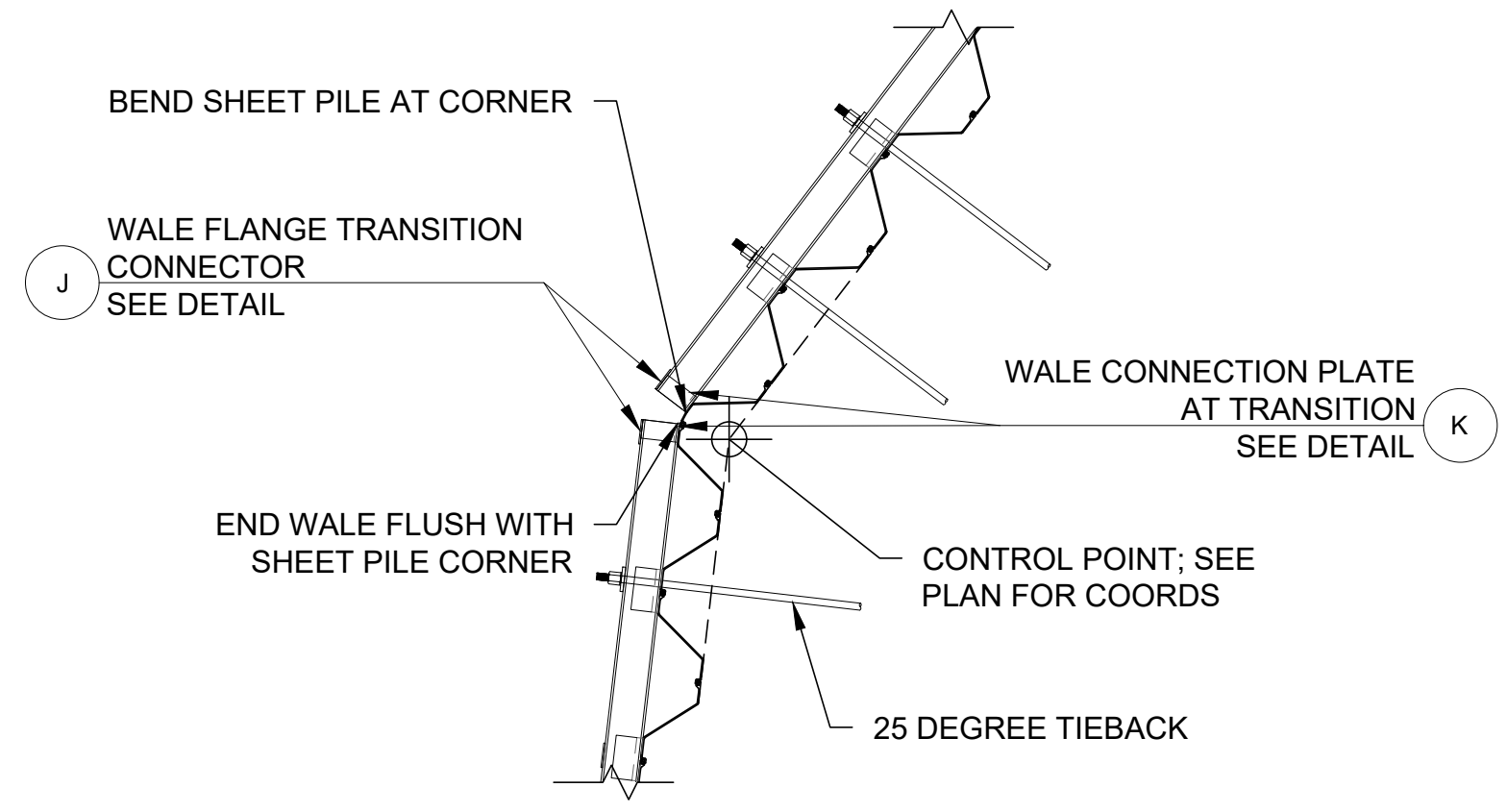
C BULKHEAD ELEVATION CHANGE DETAIL
C-06 SCALE: 1"=5'-0"



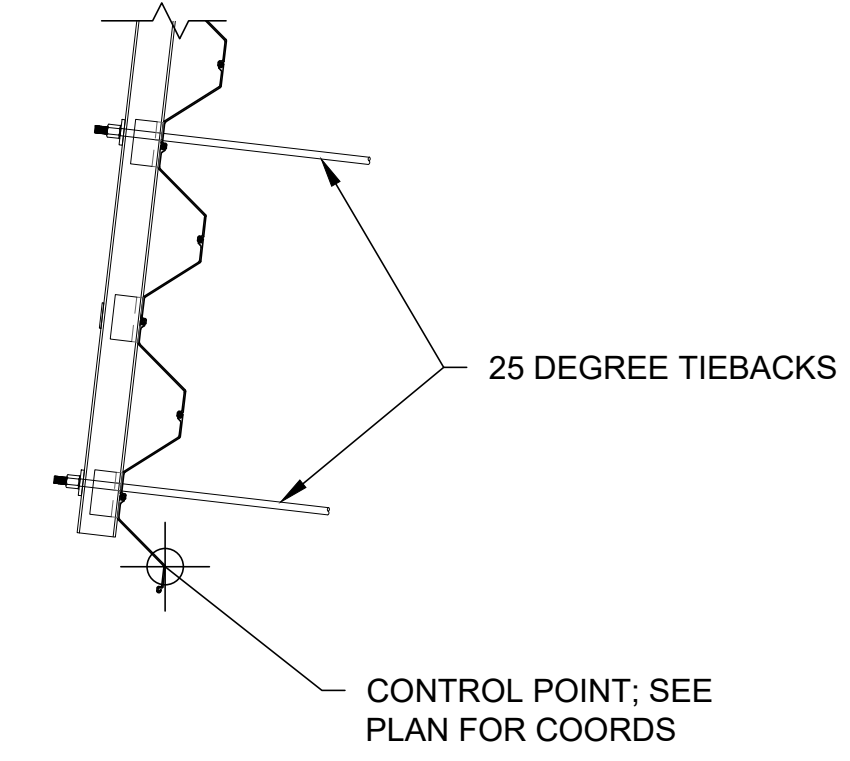
D BULKHEAD CORNER DETAIL
C-06 SCALE: 1"=5'-0"



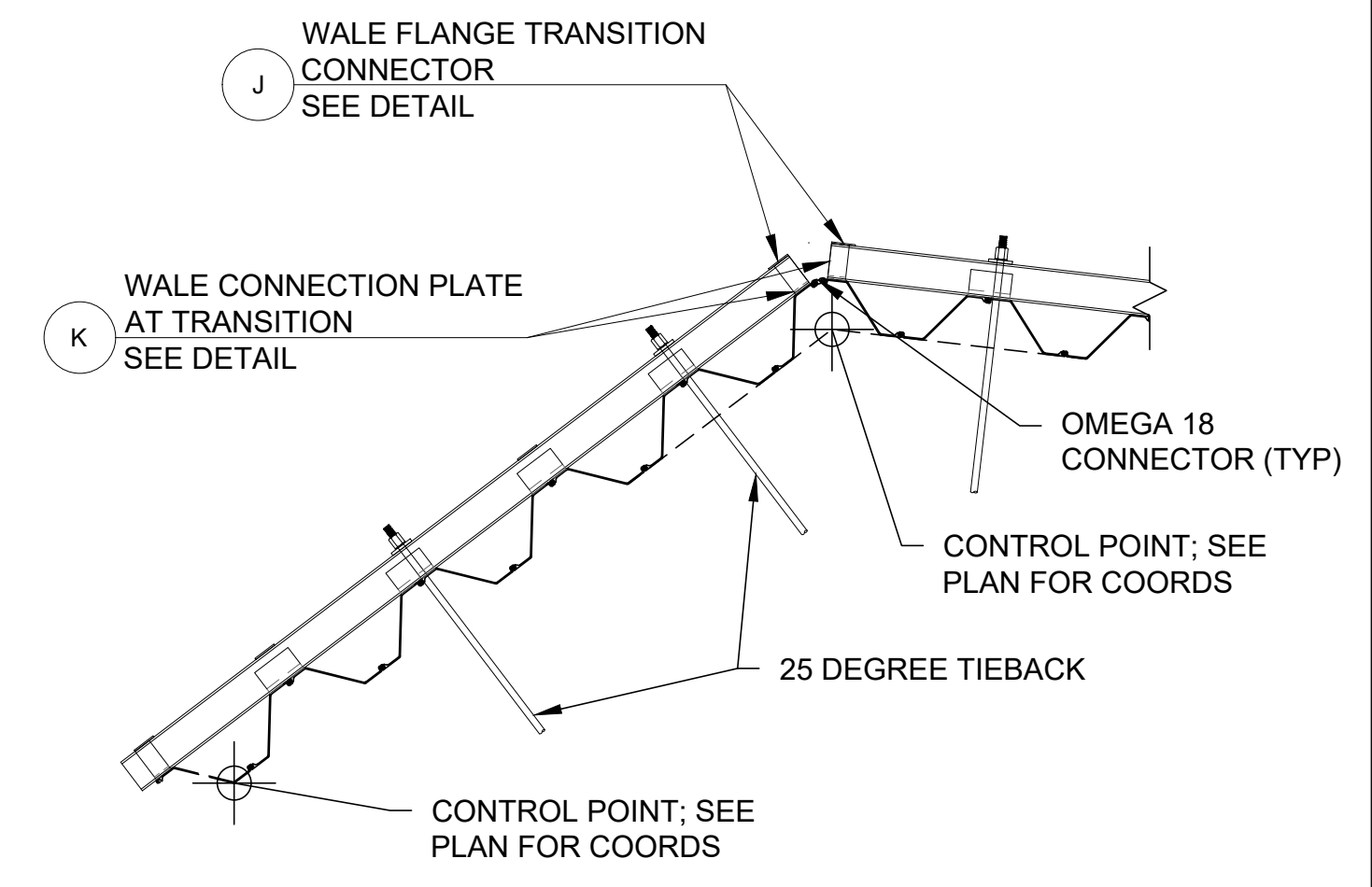
E BULKHEAD CORNER DETAIL
C-06 SCALE: 1"=5'-0"



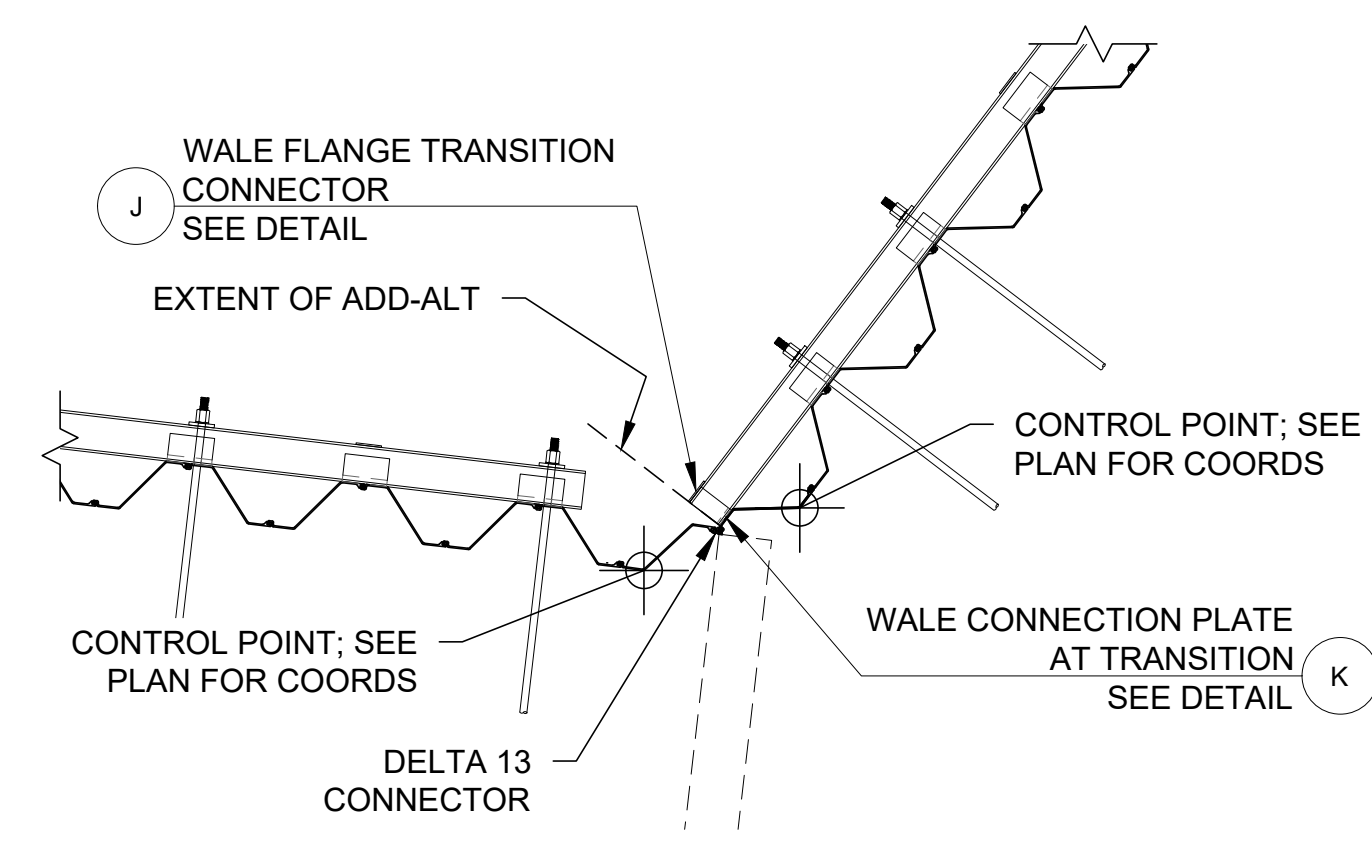
F BULKHEAD CORNER DETAIL
C-06
C-07 SCALE: 1"=5'-0"



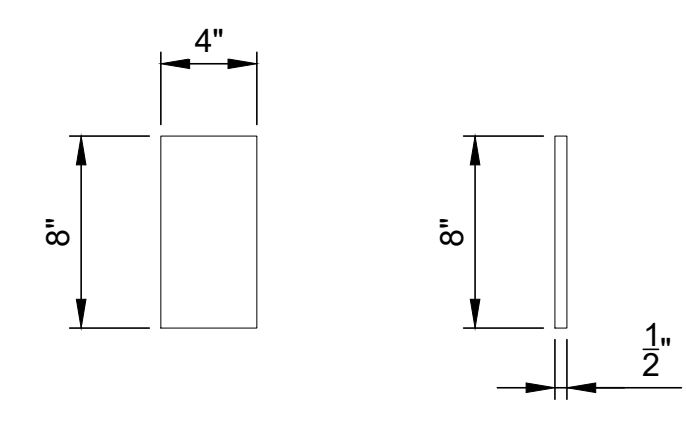
G BULKHEAD END DETAIL
C-06 SCALE: 1"=5'-0"



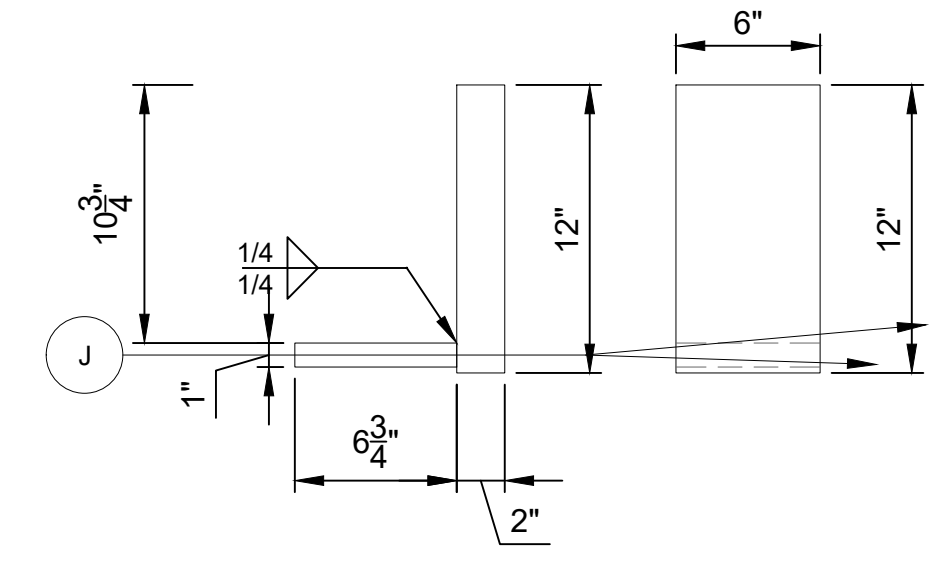
H BULKHEAD CORNER DETAIL (EXTENSION)
C-06
C-07 SCALE: 1"=5'-0"



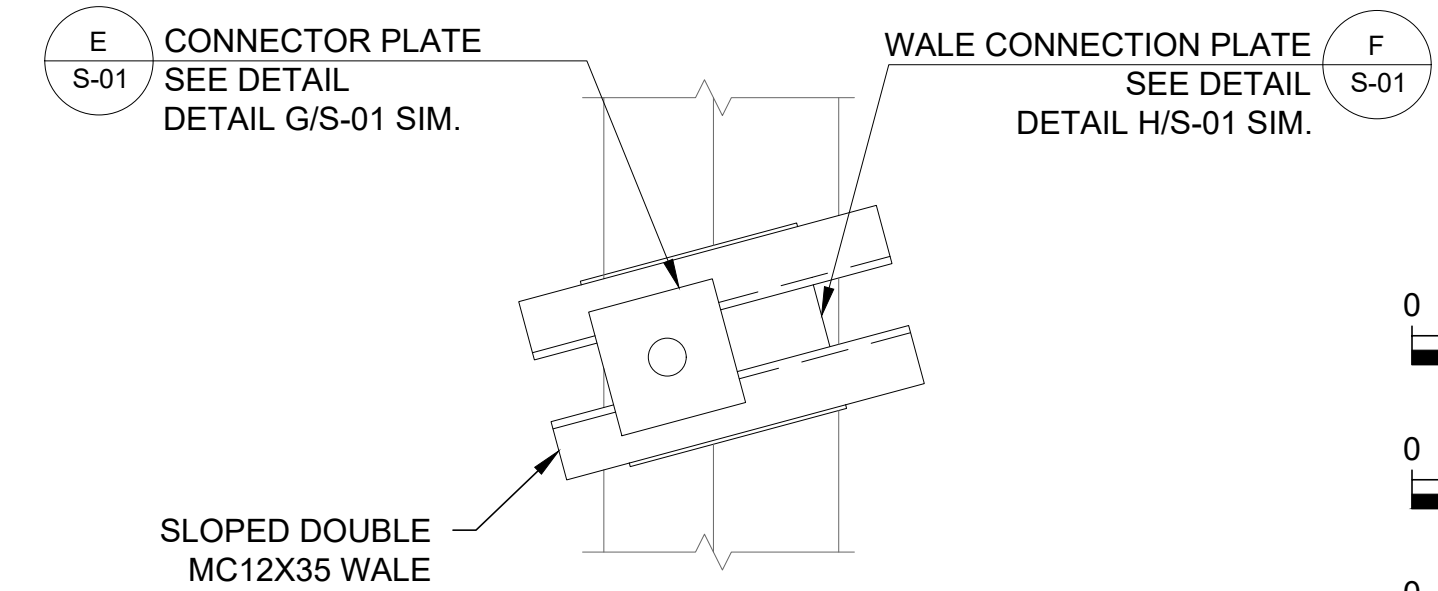
I BULKHEAD CORNER DETAIL (EXTENSION)
C-06
C-07 SCALE: 1"=5'-0" (ADD-ALTERNATE)



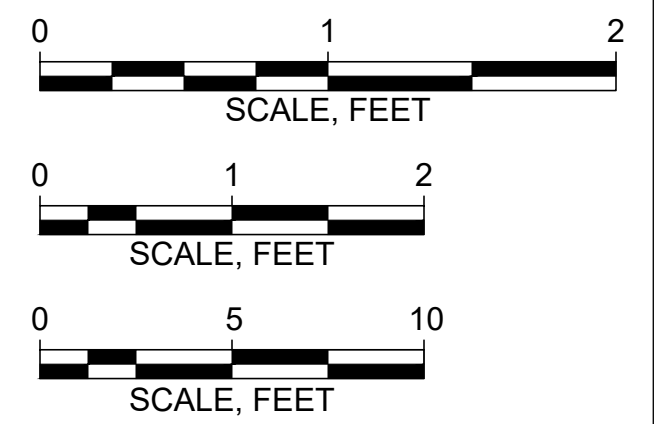
J WALE FLANGE CONNECTOR AT TRANSITIONS
SCALE: 1-1/2"=1'-0"



K WALE CONNECTION PLATE AT TRANSITIONS
SCALE: 1-1/2"=1'-0"



L TYPICAL SLOPED WALE CONNECTION ELEVATION
SCALE: 1"=1'-0"



IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS AND REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

DRAFT

Designed: GJW
Drawn: BPM, JSF
Checked: RJT
Approved: -
P.E. No: -
GEI Project 1700835



INCORPORATED
VILLAGE OF PORT JEFFERSON
121 WEST BROADWAY
PORT JEFFERSON, NY
11777

**EAST BEACH BLUFF STABILIZATION PHASE II
BLUFF CREST STABILIZATION**
VILLAGE OF PORT JEFFERSON, NY

NO	DATE	ISSUE/REVISION	APP

SHEET NAME
BULKHEAD CORNER AND END DETAILS

SHEET NO.
S-03

PROGRESS SET