

VINEYARD WIND

DRAWING LIST:

SHEET NO.

VW-OSP-LNA-XD-0001-001
 VW-OSP-LNA-XD-0003-001

VW-OSP-LNA-XE-0004-001
 VW-OSP-LNA-XE-0004-002
 VW-OSP-LNA-XE-0004-003
 VW-OSP-LNA-XE-0004-004
 VW-OSP-LNA-XE-0004-005
 VW-OSP-LNA-XE-0004-006
 VW-OSP-LNA-XS-0004-001
 VW-OSP-LNA-XS-0004-002
 VW-OSP-LNA-XS-0004-003

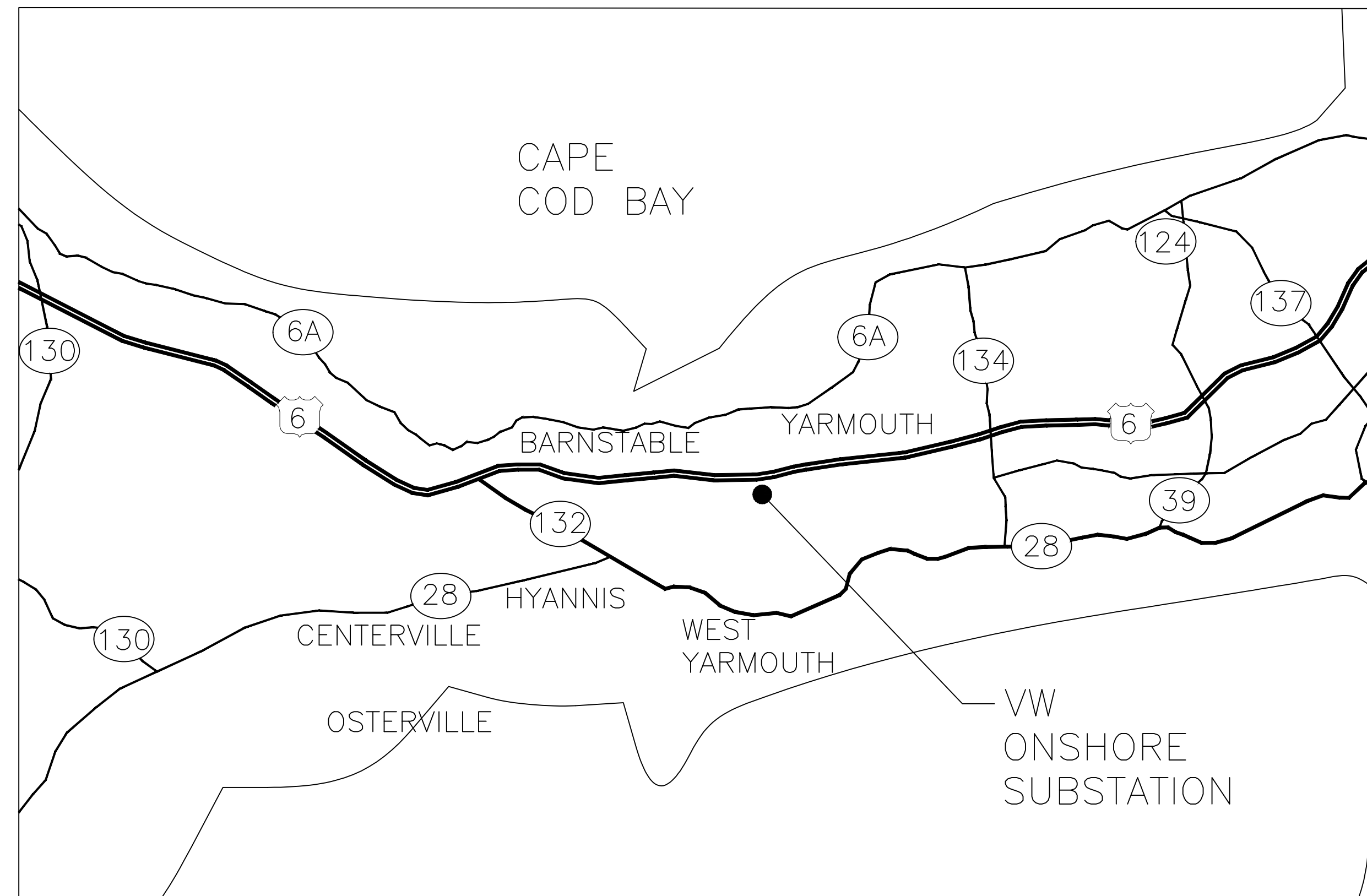
VW-OSP-LNA-XE-0001-001
 VW-OSP-LNA-XE-0003-001
 VW-OSP-LNA-XE-0003-002
 VW-OSP-LNA-XS-0001-001
 VW-OSP-LNA-XS-0002-001

TITLE

COVER SHEET
 EXISTING CONDITIONS PLAN

SEDIMENT AND EROSION CONTROL PLAN-PHASE I
 SEDIMENT AND EROSION CONTROL PLAN-PHASE II
 SEDIMENT AND EROSION CONTROL PLAN-PHASE III
 SEDIMENT AND EROSION CONTROL PLAN-PHASE IV
 SEDIMENT AND EROSION CONTROL PLAN-PHASE V
 SEDIMENT AND EROSION CONTROL PLAN-PHASE VI
 EROSION AND SEDIMENT CONTROL NOTES
 EROSION AND SEDIMENT CONTROL DETAILS
 EROSION AND SEDIMENT CONTROL DETAILS

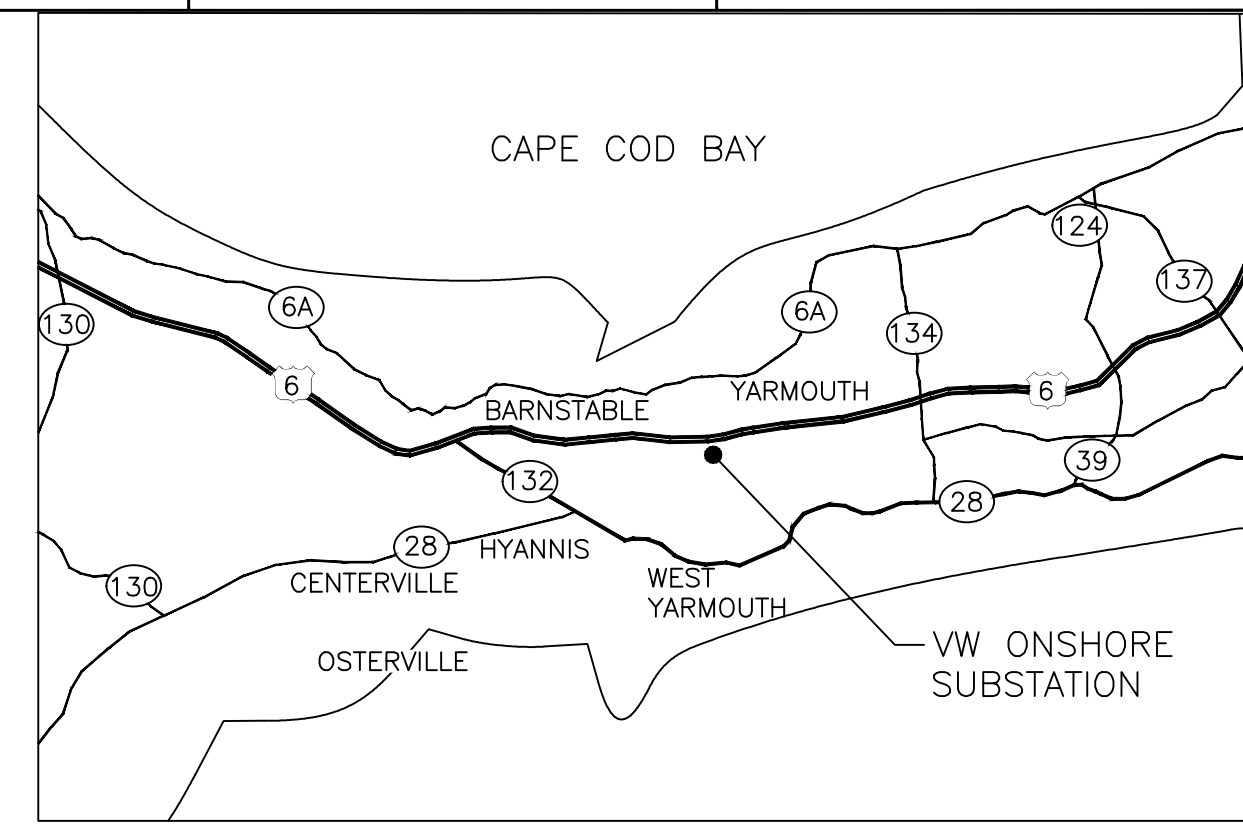
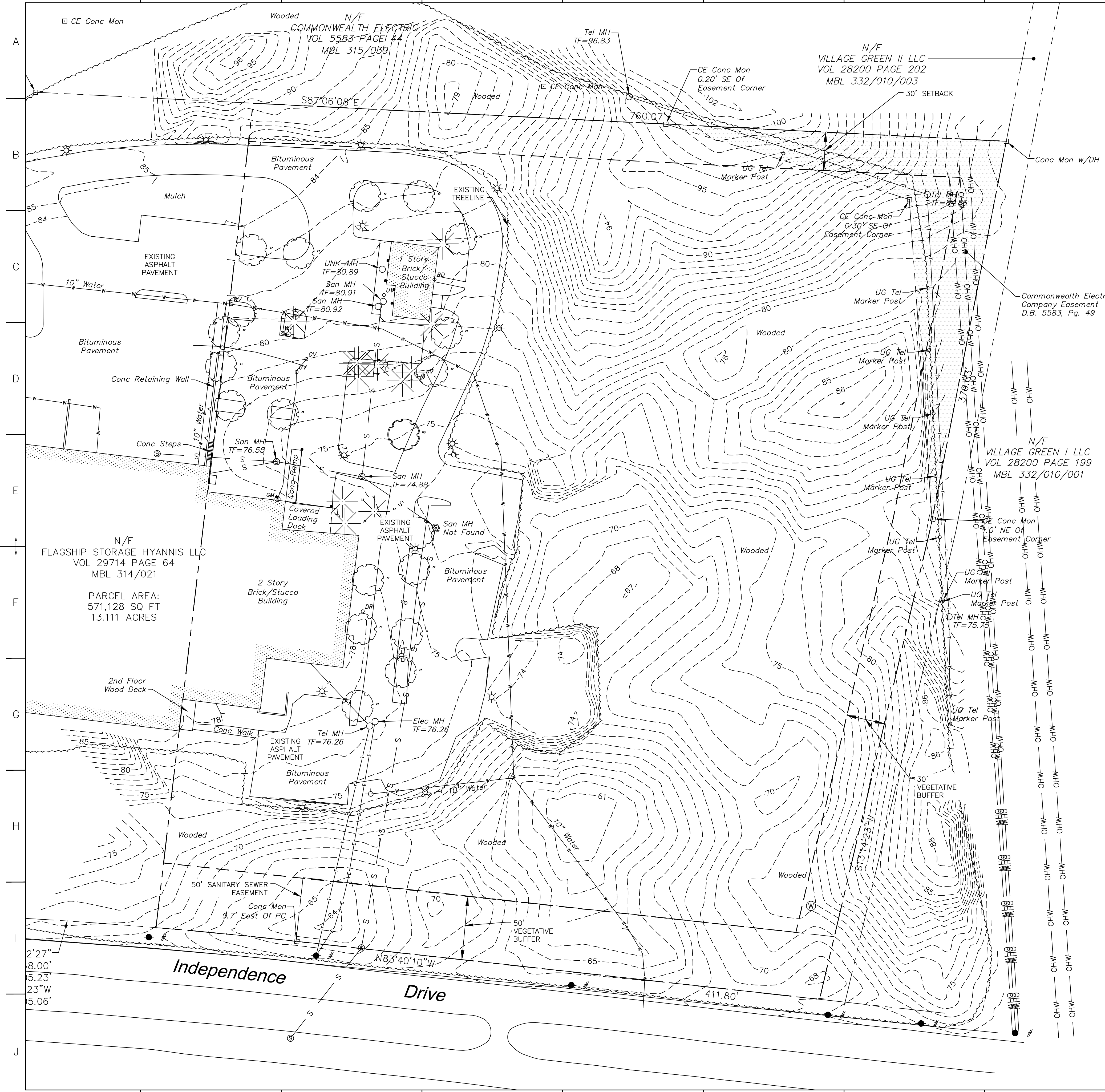
GRADING PLAN
 FENCE AND RETAINING WALL PLAN
 RETAINING WALL PROFILE
 GRADING PLAN SECTIONS AND DETAILS
 DRAINAGE DETAILS



LOCATION MAP
 SCALE: NTS

PRELIMINARY
 NOT FOR CONSTRUCTION

| | | | | | | |
|--------------------------------------------------------------------------------------------|----------|----------------------|-----------|-------|------|-------------|
| | | | | | | |
| | | | | | | |
| G | 09/17/21 | ISSUED FOR REVIEW | IFA | MESA | PJO | WED |
| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
| CONTRACTOR | | | | | | |
| AN ABB & SNC LAVALIN COMPANY 901 MAIN CAMPUS DRIVE (SUITE 210) RALEIGH, NC 27606 | | | | | | |
| CLIENT | | | | | | |
| 700 PLEASANT STREET, SUITE 510 NEW BEDFORD, MA. 02740 | | | | | | |
| PROJECT | | | | | | |
| VINEYARD WIND OFFSHORE WIND PROJECT SUBSTATION | | | | | | |
| TITLE: | | | | | | |
| COVER SHEET | | | | | | |
| DOC ID: | | | | | | |
| VW-OSP-LNA-XD-0001-001 | | | | | | |
| SHEET OF | 01 OF 01 | DWG. NO | SHEET-001 | SCALE | 1:1 | FORMAT/SIZE |
| | | | | | | ANSI D G |



LOCATION MAP
SCALE: NTS

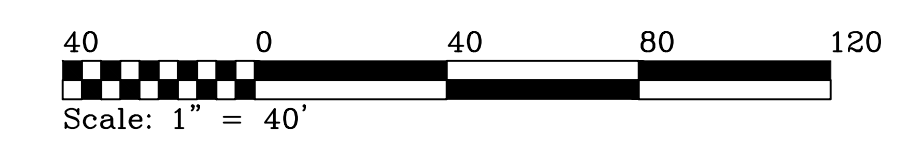
COMPANION DRAWINGS:

| SHEET NO. | TITLE |
|------------------------|---------------------------------------------|
| VW-OSP-LNA-XD-0001-001 | COVER SHEET |
| VW-OSP-LNA-XE-0001-001 | GRADING PLAN |
| VW-OSP-LNA-XE-0003-001 | FENCE AND RETAINING WALL PLAN |
| VW-OSP-LNA-XE-0003-002 | RETAINING WALL - PROFILE |
| VW-OSP-LNA-XS-0001-001 | GRADING PLAN SECTIONS AND DETAILS |
| VW-OSP-LNA-XS-0002-001 | DRAINAGE DETAILS |
| VW-OSP-LNA-XE-0004-002 | SEDIMENT AND EROSION CONTROL PLAN-PHASE II |
| VW-OSP-LNA-XE-0004-003 | SEDIMENT AND EROSION CONTROL PLAN-PHASE III |
| VW-OSP-LNA-XE-0004-004 | SEDIMENT AND EROSION CONTROL PLAN-PHASE IV |
| VW-OSP-LNA-XE-0004-005 | SEDIMENT AND EROSION CONTROL PLAN-PHASE V |
| VW-OSP-LNA-XE-0004-006 | SEDIMENT AND EROSION CONTROL PLAN-PHASE VI |
| VW-OSP-LNA-XS-0004-001 | EROSION AND SEDIMENT CONTROL NOTES |
| VW-OSP-LNA-XS-0004-002 | EROSION AND SEDIMENT CONTROL DETAILS |
| VW-OSP-LNA-XS-0004-003 | EROSION AND SEDIMENT CONTROL DETAILS |

| GENERAL LEGEND | |
|----------------|----------------------------------------------|
| | EXISTING GRADE MAJOR CONTOUR |
| | EXISTING GRADE MINOR CONTOUR |
| | EXISTING UNDERGROUND ELECTRIC |
| | PROPERTY LINE |
| | UNDERGROUND TELEPHONE |
| | OVERHEAD ELECTRIC LINES |
| | SANITARY SEWER LINE |
| | TREE/VEGETATION LINE |
| | SETBACK LINE |
| | DISTRIBUTION/TRANSMISSION/COMMUNICATION POLE |
| | EXISTING IRON PIN |
| | MAGNETIC PK NAIL |
| | UNDERGROUND WATER LINE |
| | WATER VALVE |
| | PSV VALVE |
| | LIGHT POLE |
| | FIRE HYDRANT |
| | SANITARY SEWER MANHOLE |
| | GAS VALVE |
| | GAS METER |
| | MONITORING WELL |

- GENERAL NOTES:
- NORTH ARROW AND BEARINGS BASED ON NAD 83 PER GPS READINGS BY BL COMPANIES IN JULY 2019 UTILIZING MACORS RTCM3.
 - ELEVATIONS AND CONTOURS ARE BASED ON NAVD88 PER GPS READINGS BY BL COMPANIES JULY 2019 UTILIZING MACORS RTCM3.
 - EXISTING SANITARY SEWER AS-BUILT LOCATION PROVIDED BY LAWRENCE-LYNCH CORPORATION IN JULY 2021. CLEARING ACTIVITIES WILL CONSIST OF CUTTING TREES AND CHIPPING. ALL CHIPS WILL BE REMOVED FROM THE SITE. STUMPS WILL NOT BE REMOVED DURING THIS PHASE.

PRELIMINARY
NOT FOR CONSTRUCTION



| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| A | 09/17/21 | ISSUED FOR REVIEW | IFA | MESA | WED | WED |

CONTRACTOR: **linxon**
AN ABB & SINGULARIA COMPANY
901 MAIN CAMPUS DRIVE (SUITE 210)
RALEIGH, NC 27606

CLIENT: **VINEYARD WIND**
700 PLEASANT STREET, SUITE 510
NEW BEDFORD, MA. 02740

PROJECT: VINEYARD WIND OFFSHORE WIND PROJECT SUBSTATION

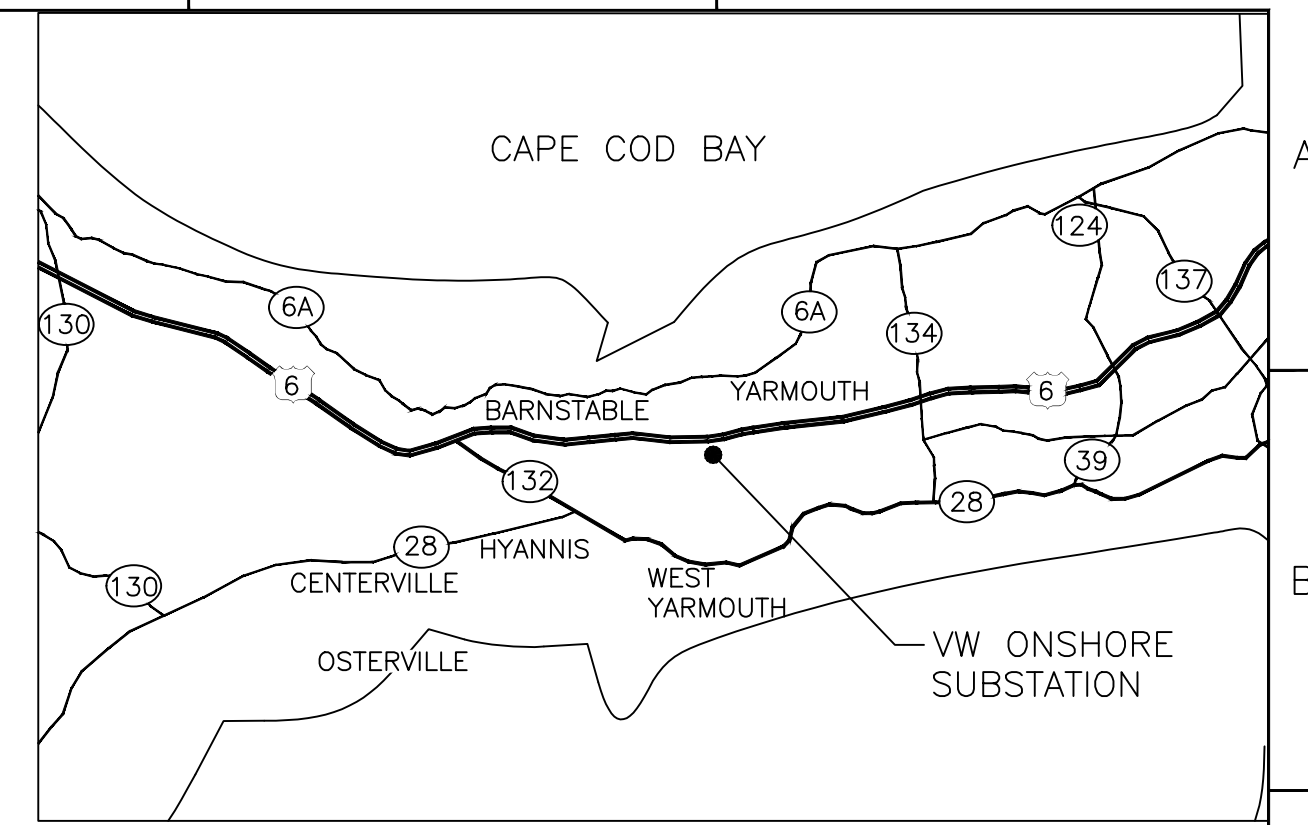
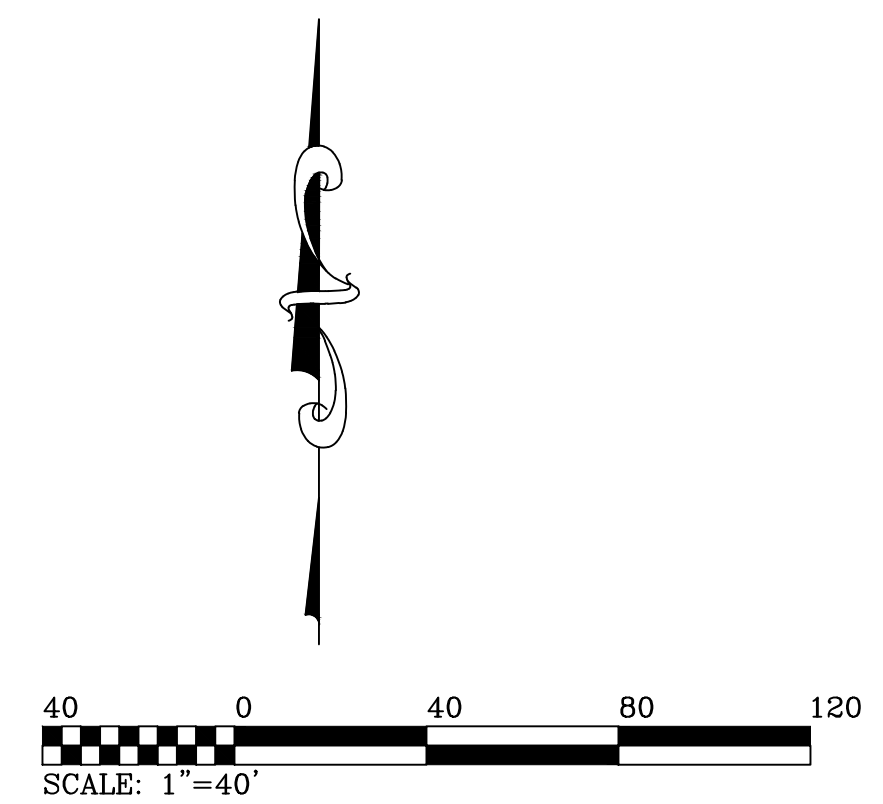
TITLE: EXISTING CONDITIONS PLAN

DOC ID: VW-OSP-LNA-XD-0003-001

| SHEET | OF | DWG. NO | SCALE | FORMAT/SIZE | REV |
|-------|----|-----------|--------|-------------|-----|
| 01 | 01 | SHEET-001 | 1"=40' | ANSI D | G |



PHASE I PLAN
SCALE: 1" = 40'



LOCATION MAP
SCALE: NTS

COMPANION DRAWINGS:

| SHEET NO. | TITLE |
|------------------------|---------------------------------------------|
| VW-OSP-LNA-XD-0001-001 | COVER SHEET |
| VW-OSP-LNA-XE-0004-002 | SEDIMENT AND EROSION CONTROL PLAN-PHASE I |
| VW-OSP-LNA-XE-0004-003 | SEDIMENT AND EROSION CONTROL PLAN-PHASE III |
| VW-OSP-LNA-XE-0004-004 | SEDIMENT AND EROSION CONTROL PLAN-PHASE IV |
| VW-OSP-LNA-XE-0004-005 | SEDIMENT AND EROSION CONTROL PLAN-PHASE V |
| VW-OSP-LNA-XE-0004-006 | SEDIMENT AND EROSION CONTROL PLAN-PHASE VI |
| VW-OSP-LNA-XS-0004-001 | EROSION AND SEDIMENT CONTROL NOTES |
| VW-OSP-LNA-XS-0004-002 | EROSION AND SEDIMENT CONTROL DETAILS |
| VW-OSP-LNA-XS-0004-003 | EROSION AND SEDIMENT CONTROL DETAILS |

MATERIAL REQUIRED:

AREA TO BE CLEARED IN PHASE I _____ 4.33 ACRES

GENERAL NOTES:

- NORTH ARROW AND BEARINGS BASED ON NAD 83 PER GPS READINGS BY BL COMPANIES IN JULY 2019 UTILIZING MACORS RTCM3.
- ELEVATIONS AND CONTOURS ARE BASED ON NAVD88 PER GPS READINGS BY BL COMPANIES JULY 2019 UTILIZING MACORS RTCM3.
- EXISTING SANITARY SEWER AS-BUILT LOCATION PROVIDED BY LAWRENCE-LYNCH CORPORATION IN JULY 2021. CLEARING ACTIVITIES WILL CONSIST OF CUTTING TREES AND CHIPPING. ALL CHIPS WILL BE REMOVED FROM THE SITE. STUMPS WILL NOT BE REMOVED DURING THIS PHASE.
- TREES AND WOOD CHIPS SHALL BE DISPOSED OF AT AN APPROVED LOCATION IN A MANNER THAT BEST UTILIZES THE RESOURCE.
- SEE DRAWINGS VW-OSP-LNA-XS-0004-002 AND VW-OSP-LNA-XS-0004-003 FOR EROSION AND SEDIMENT CONTROL DETAILS.
- TEMPORARY AND PERMANENT VEGETATION TO BE INSTALLED IN THE EVENT THAT THERE IS SOIL EXPOSURE. INSTALLATIONS SHALL BE PER THE STORMWATER POLLUTION PREVENTION PLAN, AS WELL AS THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS.
- CONTRACTOR MAY UTILIZE COMPOST SOCKS, WATTLES, AND/OR STRAW BALE BARRIERS IN LIEU OF SILT FENCE WITH APPROVAL OF SWPPP INSPECTOR AND ENGINEER.
- SILT FENCE ROCK OUTLETS SHALL BE LOCATED BY CONTRACTOR AT LOW POINTS ALONG THE SILT FENCE.
- THE EROSION AND SEDIMENT CONTROL/SILT FENCE AND LIMITS OF CONSTRUCTION (LOD) ARE GRAPHICALLY DEPICTED APART; HOWEVER, THE EROSION AND SEDIMENT CONTROL/SILT FENCE SHALL DEFINE THE LIMITS OF CONSTRUCTION WHERE EROSION AND SEDIMENT CONTROL/SILT FENCE ARE REQUIRED.

PRELIMINARY
NOT FOR CONSTRUCTION

GENERAL LEGEND

| | | | |
|--|------------------------------------|--|----------------------------------------------|
| | EXISTING GRADE MAJOR CONTOUR | | DISTRIBUTION/TRANSMISSION/COMMUNICATION POLE |
| | EXISTING GRADE MINOR CONTOUR | | EXISTING IRON PIN |
| | EXISTING UNDERGROUND ELECTRIC | | MAGNETIC PK NAIL |
| | PROPOSED CHAINLINK FENCE | | UNDERGROUND WATER LINE |
| | EROSION CONTROL/SILT FENCE | | WATER VALVE |
| | PROJECT LIMIT OF CONSTRUCTION | | PIV VALVE |
| | PROPERTY LINE | | LIGHT POLE |
| | ROAD CENTERLINE | | FIRE HYDRANT |
| | UNDERGROUND TELEPHONE | | LIGHTNING MAST |
| | OVERHEAD ELECTRIC LINES | | SANITARY SEWER MANHOLE |
| | SANITARY SEWER LINE | | GAS VALVE |
| | TREE/VEGETATION LINE | | GAS METER |
| | SETBACK LINE | | ELECTRICAL MANHOLE |
| | LIMIT OF VEGETATION/TREE CLEARANCE | | OUTDOOR STAGING AREA |

| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| G | 08/26/21 | ISSUED FOR REVIEW | IFA | MESA | WED | WED |

CONTRACTOR
linxon
AN ABB & SING LIAISON COMPANY
901 MAIN CAMPUS DRIVE (SUITE 210)
RALEIGH, NC 27606

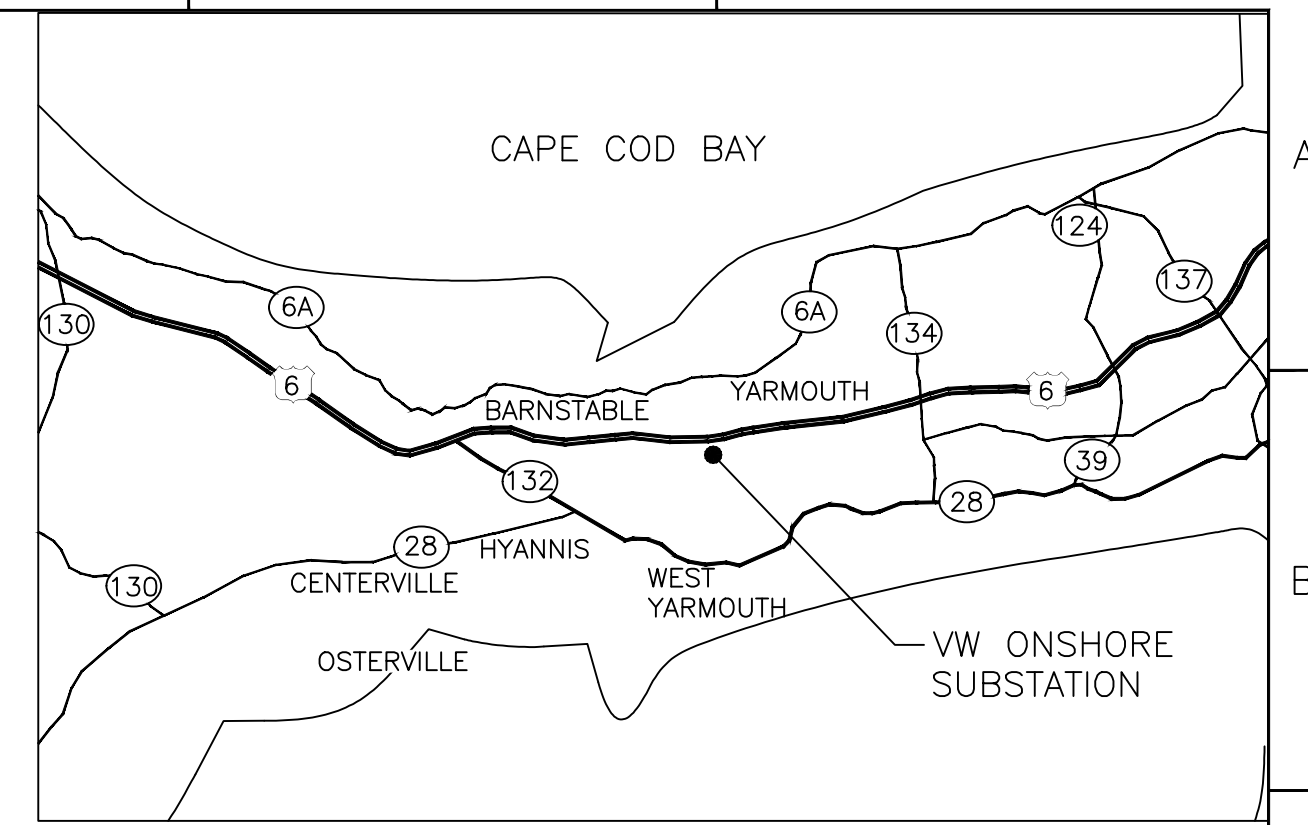
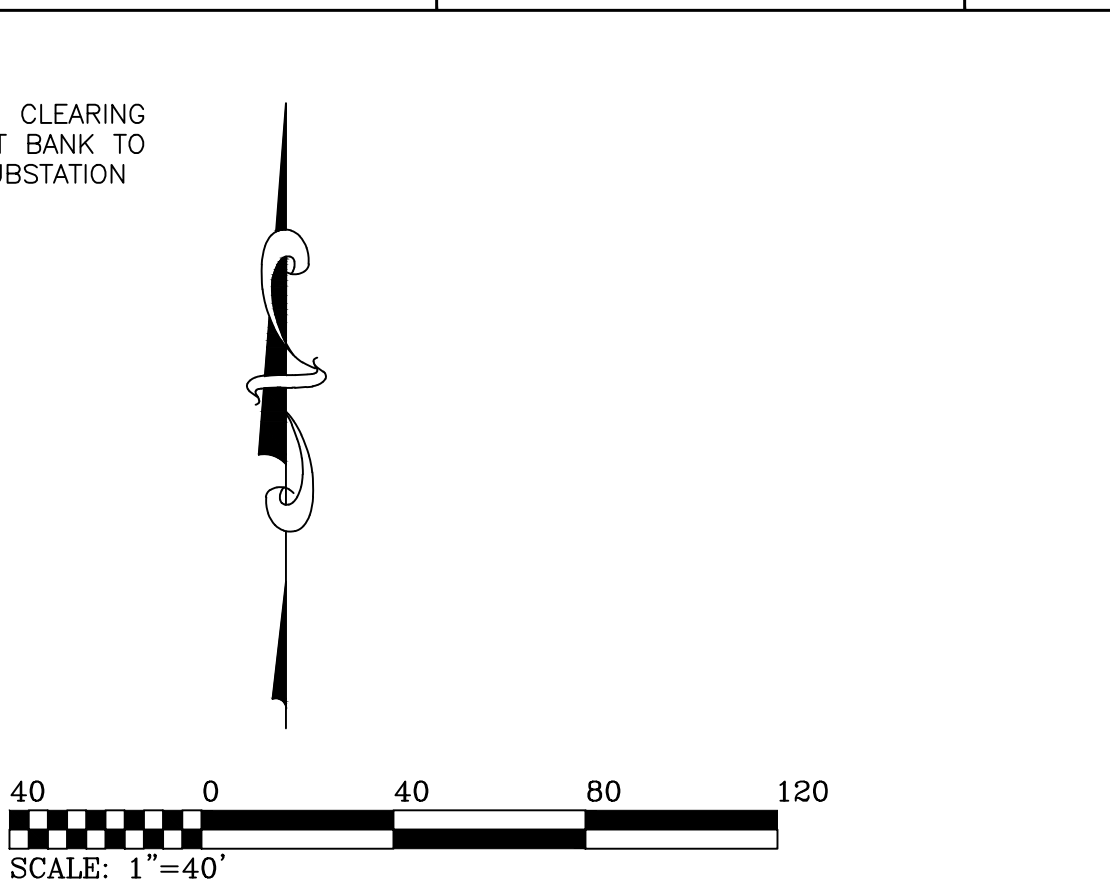
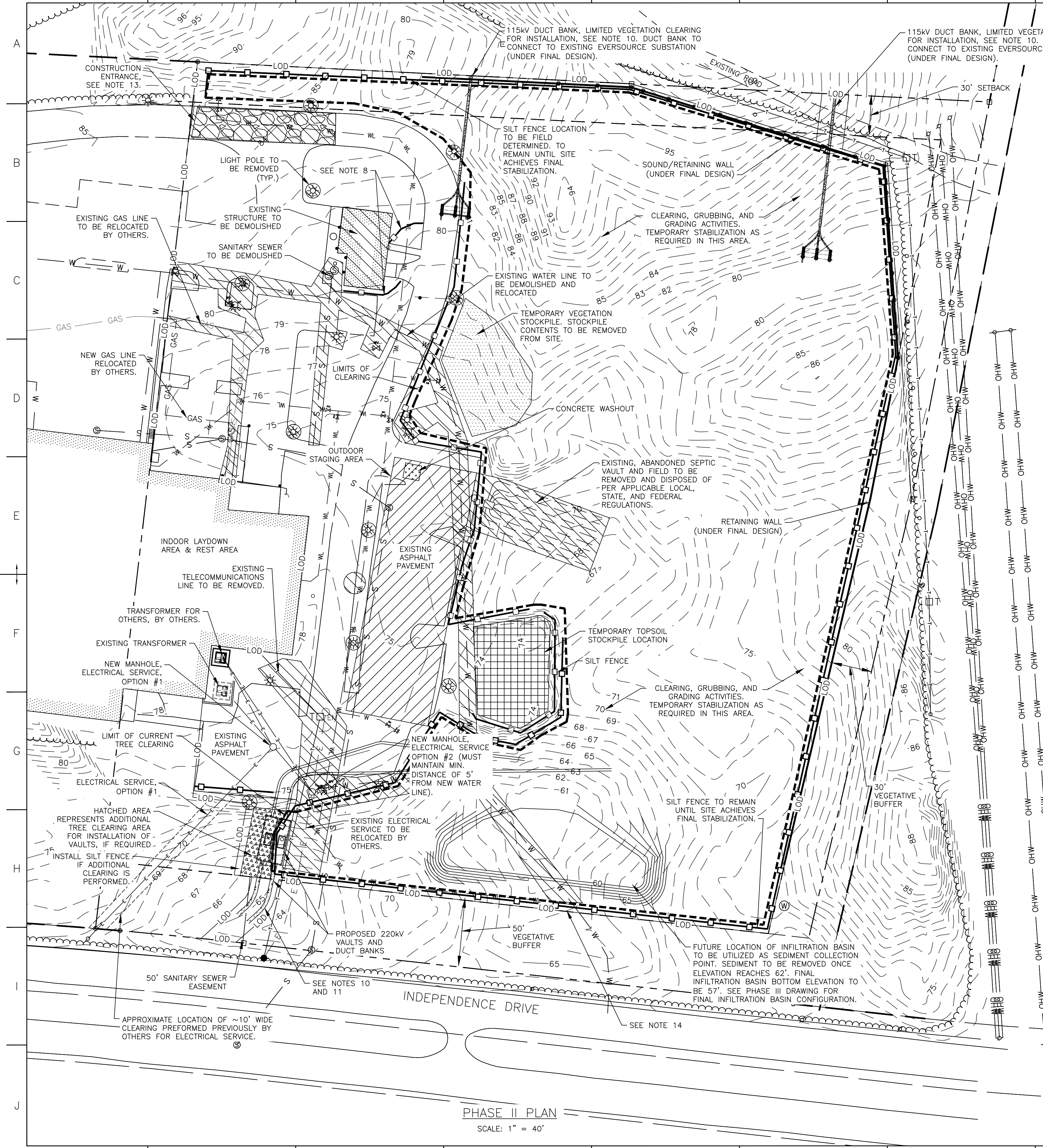
CLIENT
VINEYARD WIND
700 PLEASANT STREET, SUITE 510
NEW BEDFORD, MA. 02740

PROJECT
VINEYARD WIND OFFSHORE WIND PROJECT SUBSTATION

TITLE:
SEDIMENT AND EROSION CONTROL PLAN - PHASE I

DOC ID:
VW-OSP-LNA-XE-0004

| SHEET | OF | DWG. NO | SCALE | FORMAT/SIZE | REV |
|-------|----|-----------|--------|-------------|-----|
| 01 | 06 | SHEET-001 | 1"=40' | ANSI D | G |



LOCATION MAP
SCALE: NTS

COMPANION DRAWINGS:

| SHEET NO. | TITLE |
|------------------------|---------------------------------------------|
| VW-OSP-LNA-XD-0001-001 | COVER SHEET |
| VW-OSP-LNA-XE-0004-001 | SEDIMENT AND EROSION CONTROL PLAN-PHASE I |
| VW-OSP-LNA-XE-0004-003 | SEDIMENT AND EROSION CONTROL PLAN-PHASE III |
| VW-OSP-LNA-XE-0004-004 | SEDIMENT AND EROSION CONTROL PLAN-PHASE IV |
| VW-OSP-LNA-XE-0004-005 | SEDIMENT AND EROSION CONTROL PLAN-PHASE V |
| VW-OSP-LNA-XE-0004-006 | SEDIMENT AND EROSION CONTROL PLAN-PHASE VI |
| VW-OSP-LNA-XS-0004-001 | EROSION AND SEDIMENT CONTROL NOTES |
| VW-OSP-LNA-XS-0004-002 | EROSION AND SEDIMENT CONTROL DETAILS |
| VW-OSP-LNA-XS-0004-003 | EROSION AND SEDIMENT CONTROL DETAILS |

MATERIAL REQUIRED:

AREA TO BE DISTURBED IN PHASE II 6.69 ACRES
GENERAL NOTES:

- NORTH ARROW AND BEARINGS BASED ON NAD 83 PER GPS READINGS BY BL COMPANIES IN JULY 2019 UTILIZING MACORS RTCM3.
- ELEVATIONS AND CONTOURS ARE BASED ON NAVD88 PER GPS READINGS BY BL COMPANIES JULY 2019 UTILIZING MACORS RTCM3.
- EXISTING SANITARY SEWER AS-BUILT LOCATION PROVIDED BY LAWRENCE-LYNCH CORPORATION IN JULY 2021.
- VEGETATION REMOVED SHALL BE DISPOSED OF AT AN APPROVED LOCATION IN A MANNER THAT BEST UTILIZES THE RESOURCE.
- VEGETATION REMAINING WITHIN THE EXISTING PARKING AREA FOOTPRINT SHALL BE REMOVED. SEE DRAWINGS VW-OSP-LNA-XS-0004-002 AND VW-OSP-LNA-XS-0004-003 FOR EROSION AND SEDIMENT CONTROL DETAILS.
- TEMPORARY AND PERMANENT VEGETATION TO BE INSTALLED IN THE EVENT THAT THERE IS SOIL EXPOSURE. INSTALLATIONS SHALL BE PER THE STORMWATER POLLUTION PREVENTION PLAN, AS WELL AS THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS.
- CONTRACTOR MAY UTILIZE COMPOST SOCKS, WATTLES, AND/OR STRAW BALE BARRIERS IN LIEU OF SILT FENCE WITH APPROVAL OF SWPPP INSPECTOR AND ENGINEER.
- SILT FENCE ROCK OUTLETS SHALL BE LOCATED BY CONTRACTOR AT LOW POINTS ALONG THE SILT FENCE.
- WHEN CONDUIT LEADING TO PULLBOX ON THE SOUTH SIDE OF THE SITE IS INSTALLED AND WHEN DUCT BANKS ARE INSTALLED ON THE NORTH SIDE OF THE SITE, SEDIMENT AND EROSION CONTROL TO BE INSTALLED AS NECESSARY.
- UNDER A SEPARATE PROJECT PHASE, AN APPROXIMATE 20' WIDE CORRIDOR WILL BE CLEARED FOR CABLE INSTALLATION. AFTER CONSTRUCTION AND INSTALLATION, THE CORRIDOR WILL BE PERMANENTLY REVEGETATED TO THE EXTENT PRACTICAL.
- DURING DEMOLITION AND INSTALLATION OF UTILITIES, SEDIMENT AND EROSION CONTROLS TO BE INSTALLED AS NECESSARY.
- EXISTING ASPHALT TO BE DEMOLISHED/REMOVED PRIOR TO INSTALLATION OF CONSTRUCTION ENTRANCE.
- INSTALL TEMPORARY CONSTRUCTION FENCING AS NECESSARY TO IDENTIFY LIMITS OF DISTURBANCE.
- THE EROSION AND SEDIMENT CONTROL/SILT FENCE AND LIMITS OF CONSTRUCTION (LOD) ARE GRAPHICALLY DEPICTED APART; HOWEVER, THE EROSION AND SEDIMENT CONTROL/SILT FENCE SHALL DEFINE THE LIMITS OF CONSTRUCTION WHERE EROSION AND SEDIMENT CONTROL/SILT FENCE ARE REQUIRED.

PRELIMINARY
NOT FOR CONSTRUCTION

GENERAL LEGEND

| | | | |
|--|------------------------------------|--|----------------------------------------------|
| | EXISTING GRADE MAJOR CONTOUR | | DISTRIBUTION/TRANSMISSION/COMMUNICATION POLE |
| | EXISTING GRADE MINOR CONTOUR | | EXISTING IRON PIN |
| | PROPOSED GRADE MAJOR CONTOUR | | MAGNETIC PK NAIL |
| | PROPOSED GRADE MINOR CONTOUR | | EXISTING WATER LINE |
| | EXISTING UNDERGROUND ELECTRIC | | WATER VALVE |
| | PROPOSED CHAIN LINK FENCE | | PVC VALVE |
| | EROSION CONTROL/SILT FENCE | | LIGHT POLE |
| | PROJECT LIMIT OF CONSTRUCTION | | FIRE HYDRANT |
| | PROPERTY LINE | | LIGHTNING MAST |
| | ROAD CENTERLINE | | SANITARY SEWER MANHOLE |
| | UNDERGROUND TELEPHONE | | GAS VALVE |
| | OVERHEAD ELECTRIC LINES | | GAS METER |
| | SANITARY SEWER LINE | | ELECTRICAL MANHOLE |
| | TREE/VEGETATION LINE | | OUTDOOR STAGING AREA |
| | SETBACK LINE | | DEMOLITION |
| | LIMIT OF VEGETATION/TREE CLEARANCE | | CONCRETE WASHOUT |
| | TOPSOIL STOCKPILE | | EXISTING GAS LINE |
| | VEGETATION STOCKPILE | | PROPOSED GAS LINE |
| | PROPOSED UG ELECTRIC LINE | | PROPOSED VEGETATION |
| | PROPOSED WATER LINE | | GRAVEL |

| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| H | 08/26/21 | ISSUED FOR REVIEW | IFR | MESA | WED | WED |

CONTRACTOR: **linxon**
AN ABB & SNC LAVAURN COMPANY
901 MAIN CAMPUS DRIVE (SUITE 210)
RALEIGH, NC 27606

CLIENT: **VINEYARD WIND**
700 PLEASANT STREET, SUITE 510
NEW BEDFORD, MA. 02740

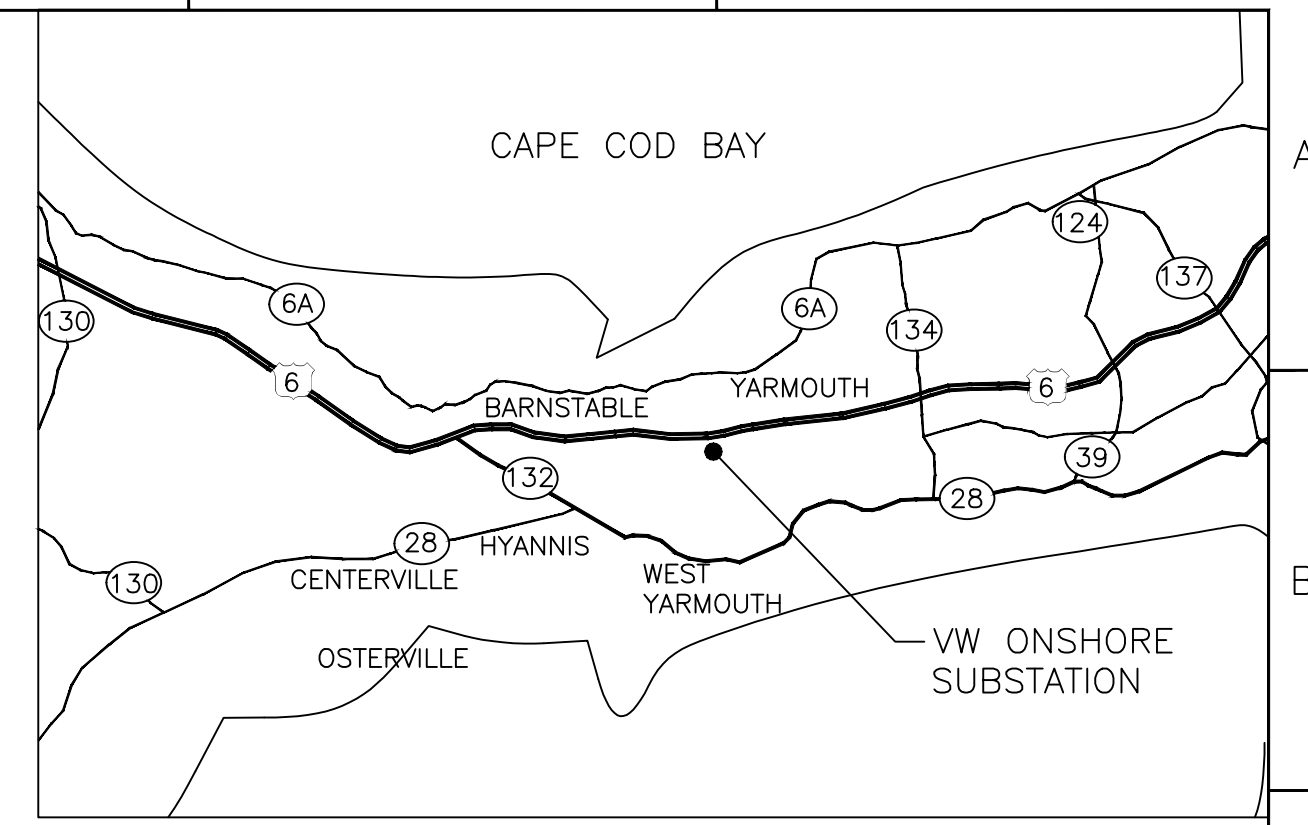
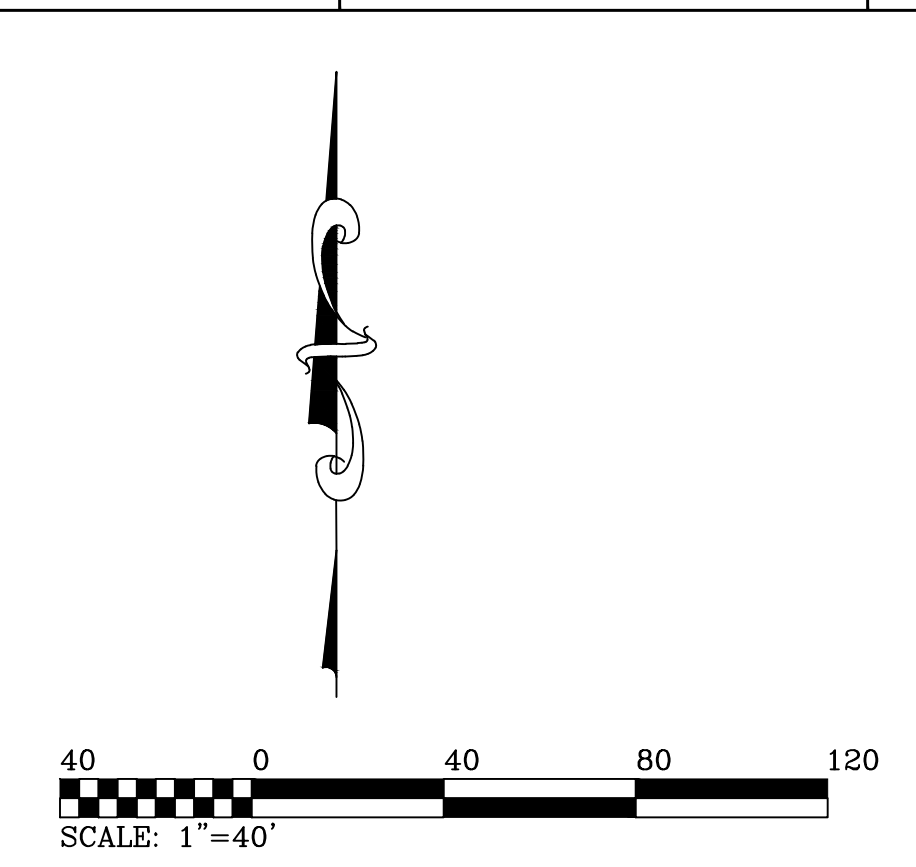
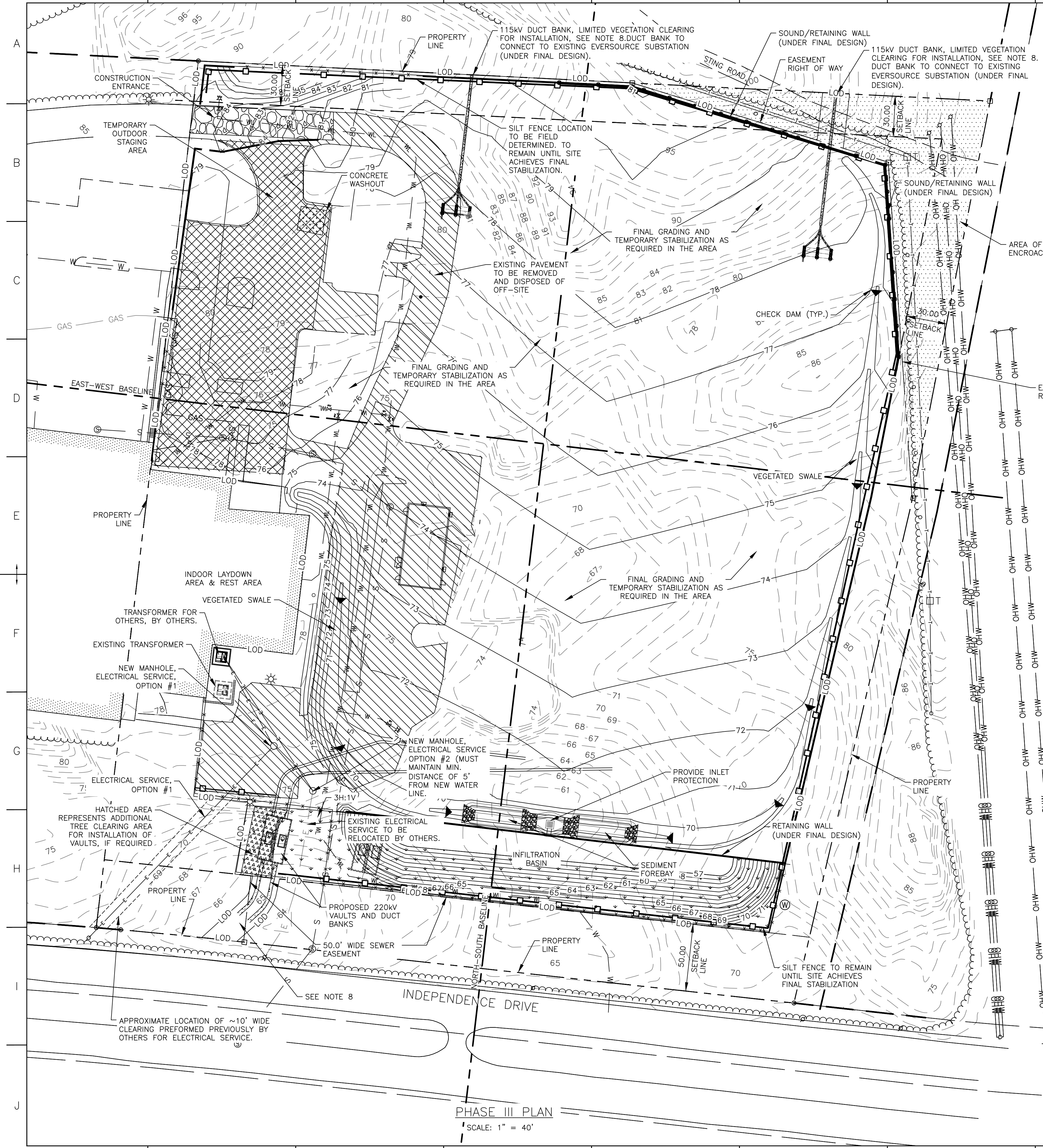
PROJECT: VINEYARD WIND OFFSHORE WIND PROJECT SUBSTATION

TITLE: SEDIMENT AND EROSION CONTROL PLAN - PHASE II

DOC ID: VW-OSP-LNA-XE-0004-002

SHEET 02 OF 06 DWG. NO SHEET-002 SCALE 1"=40' FORMAT/SIZE ANSI D REV H

PHASE II PLAN
SCALE: 1" = 40'



COMPANION DRAWINGS:

| SHEET NO. | TITLE |
|------------------------|--------------------------------------------|
| VW-OSP-LNA-XD-0001-001 | COVER SHEET |
| VW-OSP-LNA-XE-0004-001 | SEDIMENT AND EROSION CONTROL PLAN-PHASE I |
| VW-OSP-LNA-XE-0004-002 | SEDIMENT AND EROSION CONTROL PLAN-PHASE II |
| VW-OSP-LNA-XE-0004-004 | SEDIMENT AND EROSION CONTROL PLAN-PHASE IV |
| VW-OSP-LNA-XE-0004-005 | SEDIMENT AND EROSION CONTROL PLAN-PHASE V |
| VW-OSP-LNA-XE-0004-006 | SEDIMENT AND EROSION CONTROL PLAN-PHASE VI |
| VW-OSP-LNA-XS-0004-001 | EROSION AND SEDIMENT CONTROL NOTES |
| VW-OSP-LNA-XS-0004-002 | EROSION AND SEDIMENT CONTROL DETAILS |
| VW-OSP-LNA-XS-0004-003 | EROSION AND SEDIMENT CONTROL DETAILS |

MATERIAL REQUIRED:

AREA TO BE DISTURBED IN PHASE III _____ 6.69 ACRES

GENERAL NOTES:

1. NORTH ARROW AND BEARINGS BASED ON NAD 83 PER GPS READINGS BY BL COMPANIES IN JULY 2019 UTILIZING MACORS RTCM3.
2. ELEVATIONS AND CONTOURS ARE BASED ON NAVD88 PER GPS READINGS BY BL COMPANIES JULY 2019 UTILIZING MACORS RTCM3.
3. EXISTING SANITARY SEWER AS-BUILT LOCATION PROVIDED BY LAWRENCE-LYNCH CORPORATION IN JULY 2021.
4. SEE DRAWINGS VW-OSP-LNA-XS-0004-002 AND VW-OSP-LNA-XS-0004-003 FOR EROSION AND SEDIMENT CONTROL DETAILS.
5. TEMPORARY AND PERMANENT VEGETATION TO BE INSTALLED IN THE EVENT THAT THERE IS SOIL EXPOSURE. INSTALLATIONS SHALL BE PER THE STORMWATER POLLUTION PREVENTION PLAN, AS WELL AS THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS.
6. CONTRACTOR MAY UTILIZE COMPOST SOCKS, WATTLES, AND/OR STRAW BALE BARRIERS IN LIEU OF SILT FENCE WITH APPROVAL OF SWPPP INSPECTOR AND ENGINEER.
7. SILT FENCE ROCK OUTLETS SHALL BE LOCATED BY CONTRACTOR AT LOW POINTS ALONG THE SILT FENCE.
8. WHEN CONDUIT LEADING TO PULLBOX ON THE SOUTH SIDE OF THE SITE IS INSTALLED AND WHEN DUCT BANKS ARE INSTALLED ON THE NORTH SIDE OF THE SITE, SEDIMENT AND EROSION CONTROL TO BE INSTALLED AS NECESSARY.
9. DURING, AND AFTER, DEMOLITION OF EXISTING PAVEMENT, SEDIMENT AND EROSION CONTROLS TO BE INSTALLED AS NECESSARY.
10. THE EROSION AND SEDIMENT CONTROL/SILT FENCE AND LIMITS OF CONSTRUCTION (LOD) ARE GRAPHICALLY DEPICTED APART; HOWEVER, THE EROSION AND SEDIMENT CONTROL/SILT FENCE SHALL DEFINE THE LIMITS OF CONSTRUCTION WHERE EROSION AND SEDIMENT CONTROL/SILT FENCE ARE REQUIRED.

PRELIMINARY
NOT FOR CONSTRUCTION

GENERAL LEGEND

| | | | |
|--|------------------------------------|--|----------------------------------------------|
| | EXISTING GRADE MAJOR CONTOUR | | DISTRIBUTION/TRANSMISSION/COMMUNICATION POLE |
| | EXISTING GRADE MINOR CONTOUR | | EXISTING IRON PIN |
| | PROPOSED GRADE MAJOR CONTOUR | | MAGNETIC PK NAIL |
| | PROPOSED GRADE MINOR CONTOUR | | EXISTING WATER LINE |
| | EXISTING UNDERGROUND ELECTRIC | | WATER VALVE |
| | PROPOSED CHAINLINK FENCE | | PIV VALVE |
| | EROSION CONTROL/SILT FENCE | | LIGHT POLE |
| | PROJECT LIMIT OF CONSTRUCTION | | FIRE HYDRANT |
| | PROPERTY LINE | | LIGHTNING MAST |
| | ROAD CENTERLINE | | SANITARY SEWER MANHOLE |
| | UNDERGROUND TELEPHONE | | GAS VALVE |
| | OVERHEAD ELECTRIC LINES | | GAS METER |
| | SANITARY SEWER LINE | | ELECTRICAL MANHOLE |
| | TREE/VEGETATION LINE | | OUTDOOR STAGING AREA |
| | SETBACK LINE | | DEMOLITION |
| | LIMIT OF VEGETATION/TREE CLEARANCE | | CONCRETE WASHOUT |
| | TOPSOIL STOCKPILE | | EXISTING GAS LINE |
| | VEGETATION STOCKPILE | | PROPOSED GAS LINE |
| | PROPOSED UG ELECTRIC LINE | | PROPOSED VEGETATION |
| | PROPOSED WATER LINE | | GRAVEL |

| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| H | 08/26/21 | ISSUED FOR REVIEW | IFR | MESA | WED | WED |

CONTRACTOR: **linxon**
AN ABB & SNC LAVAVAL COMPANY
901 MAIN CAMPUS DRIVE (SUITE 210)
RALEIGH, NC 27606

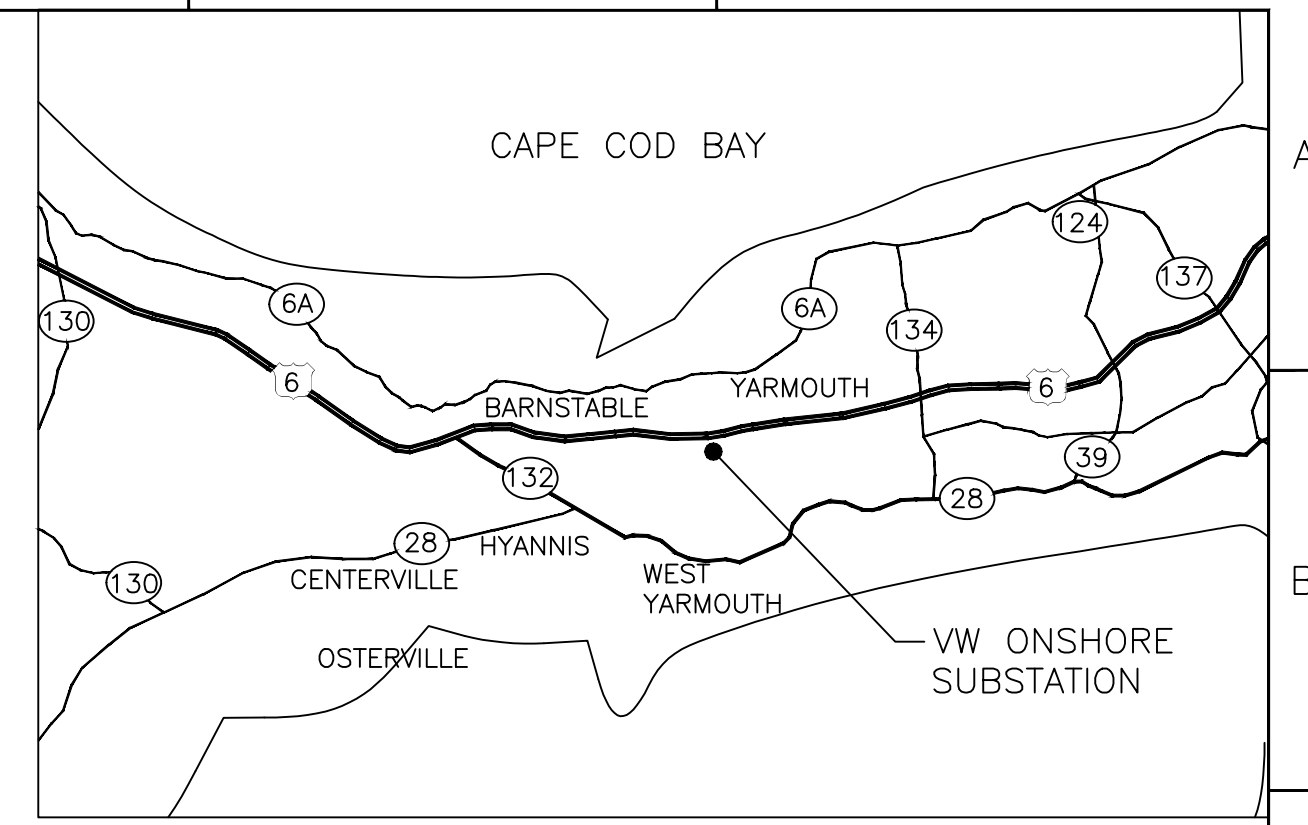
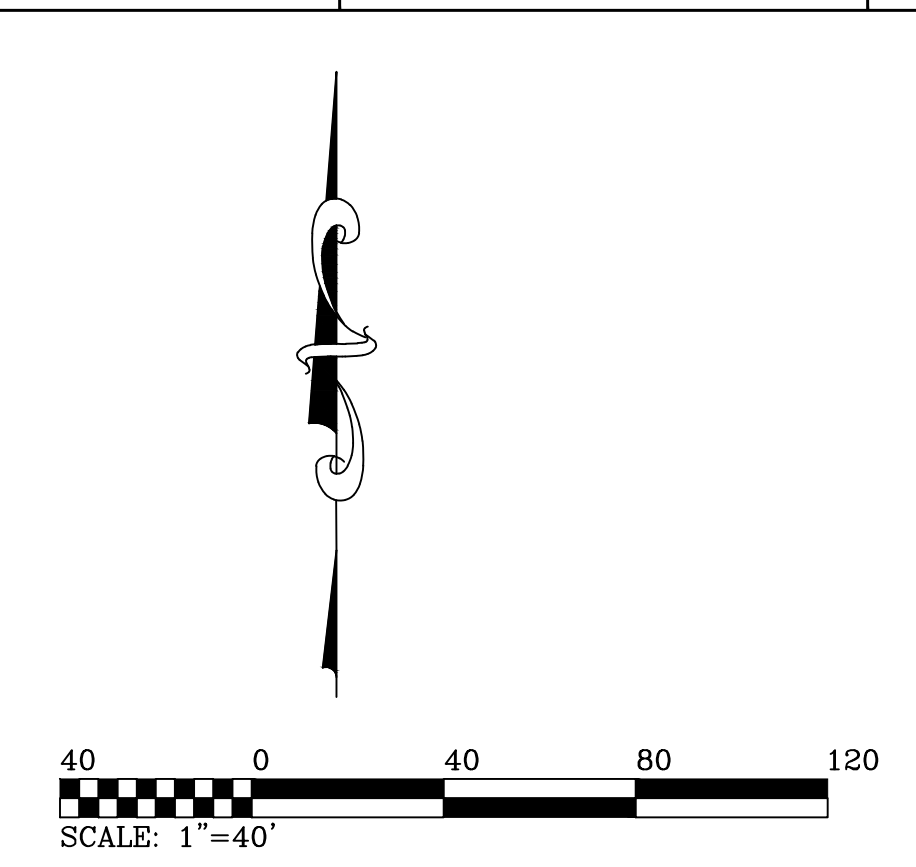
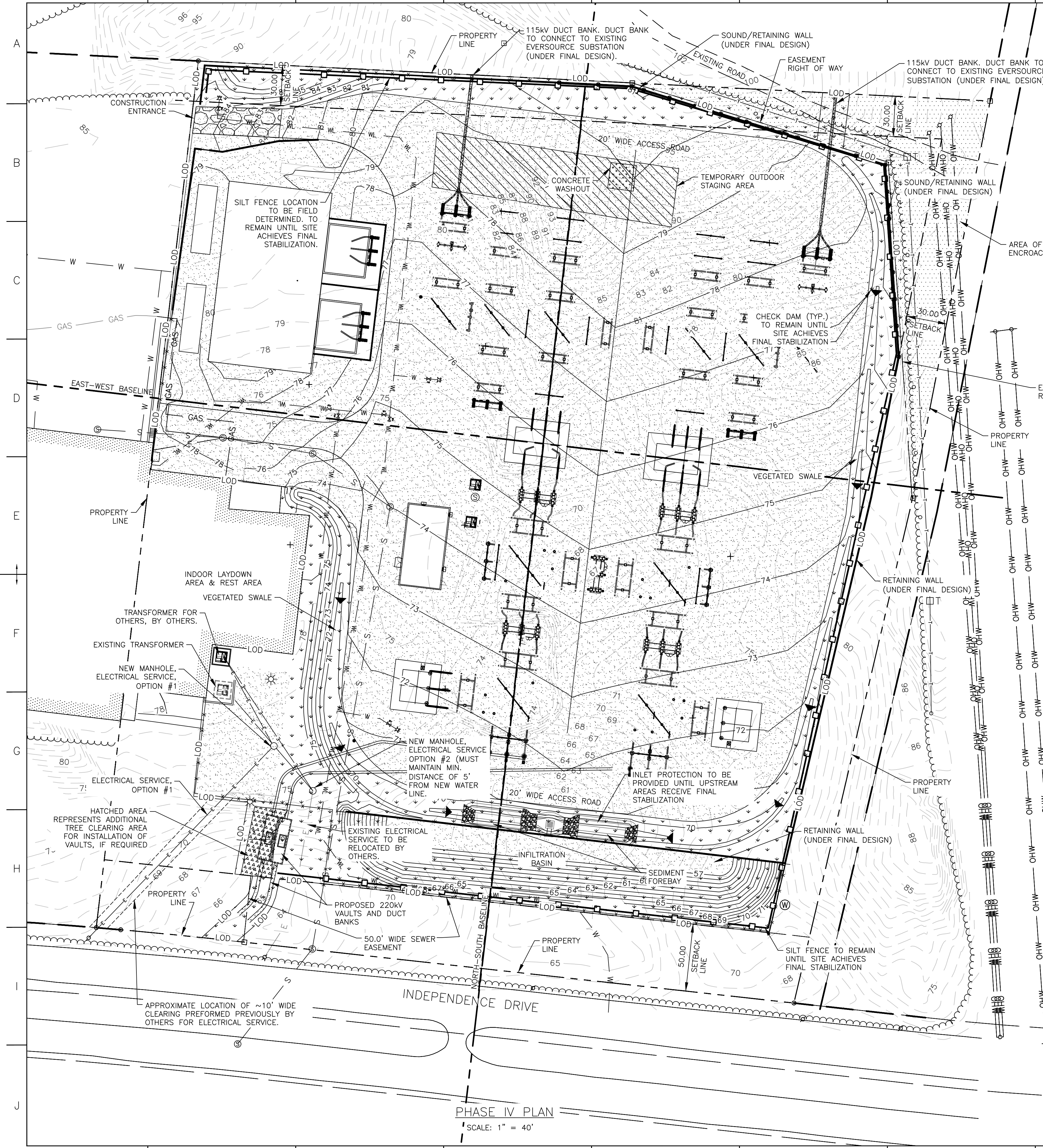
CLIENT: **VINEYARD WIND**
700 PLEASANT STREET, SUITE 510
NEW BEDFORD, MA. 02740

PROJECT: VINEYARD WIND OFFSHORE WIND PROJECT SUBSTATION

TITLE: SEDIMENT AND EROSION CONTROL PLAN - PHASE III

DOC ID: VW-OSP-LNA-XE-0004-003

SHEET 03 OF 06 DWG. NO SHEET-003 SCALE 1:40 FORMAT/SIZE ANSI D REV H



COMPANION DRAWINGS:

| SHEET NO. | TITLE |
|------------------------|---------------------------------------------|
| VW-OSP-LNA-XD-0001-001 | COVER SHEET |
| VW-OSP-LNA-XE-0004-001 | SEDIMENT AND EROSION CONTROL PLAN-PHASE I |
| VW-OSP-LNA-XE-0004-002 | SEDIMENT AND EROSION CONTROL PLAN-PHASE II |
| VW-OSP-LNA-XE-0004-003 | SEDIMENT AND EROSION CONTROL PLAN-PHASE III |
| VW-OSP-LNA-XE-0004-005 | SEDIMENT AND EROSION CONTROL PLAN-PHASE V |
| VW-OSP-LNA-XE-0004-006 | SEDIMENT AND EROSION CONTROL PLAN-PHASE VI |
| VW-OSP-LNA-XS-0004-001 | EROSION AND SEDIMENT CONTROL NOTES |
| VW-OSP-LNA-XS-0004-002 | EROSION AND SEDIMENT CONTROL DETAILS |
| VW-OSP-LNA-XS-0004-003 | EROSION AND SEDIMENT CONTROL DETAILS |

MATERIAL REQUIRED:

AREA TO BE DISTURBED IN PHASE IV 6.69 ACRES

GENERAL NOTES:

- NORTH ARROW AND BEARINGS BASED ON NAD 83 PER GPS READINGS BY BL COMPANIES IN JULY 2019 UTILIZING MACORS RTCM3.
- ELEVATIONS AND CONTOURS ARE BASED ON NAVD88 PER GPS READINGS BY BL COMPANIES JULY 2019 UTILIZING MACORS RTCM3.
- EXISTING SANITARY SEWER AS-BUILT LOCATION PROVIDED BY LAWRENCE-LYNCH CORPORATION IN JULY 2021.
- SEE DRAWINGS VW-OSP-LNA-XS-0004-002 AND VW-OSP-LNA-XS-0004-003 FOR EROSION AND SEDIMENT CONTROL DETAILS.
- TEMPORARY AND PERMANENT VEGETATION TO BE INSTALLED IN THE EVENT THAT THERE IS SOIL EXPOSURE. INSTALLATIONS SHALL BE PER THE STORMWATER POLLUTION PREVENTION PLAN, AS WELL AS THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS.
- CONTRACTOR MAY UTILIZE COMPOST STOCKS, WATTLES, AND/OR STRAW BALE BARRIERS IN LEIU OF SILT FENCE WITH APPROVAL OF SWPPP INSPECTOR AND ENGINEER.
- SILT FENCE ROCK OUTLETS SHALL BE LOCATED BY CONTRACTOR AT LOW POINTS ALONG THE SILT FENCE.
- THE EROSION AND SEDIMENT CONTROL/SILT FENCE AND LIMITS OF CONSTRUCTION (LOD) ARE GRAPHICALLY DEPICTED APART; HOWEVER, THE EROSION AND SEDIMENT CONTROL/SILT FENCE SHALL DEFINE THE LIMITS OF CONSTRUCTION WHERE EROSION AND SEDIMENT CONTROL/SILT FENCE ARE REQUIRED.

PRELIMINARY
NOT FOR CONSTRUCTION

| GENERAL LEGEND | |
|----------------|----------------------------------------------|
| | EXISTING GRADE MAJOR CONTOUR |
| | EXISTING GRADE MINOR CONTOUR |
| | PROPOSED GRADE MAJOR CONTOUR |
| | PROPOSED GRADE MINOR CONTOUR |
| | EXISTING UNDERGROUND ELECTRIC |
| | PROPOSED CHAINLINK FENCE |
| | EROSION CONTROL/SILT FENCE |
| | PROJECT LIMIT OF CONSTRUCTION |
| | PROPERTY LINE |
| | ROAD CENTERLINE |
| | UNDERGROUND TELEPHONE |
| | OVERHEAD ELECTRIC LINES |
| | SANITARY SEWER LINE |
| | TREE/VEGETATION LINE |
| | SETBACK LINE |
| | LIMIT OF VEGETATION/TREE CLEARANCE |
| | TOPSOIL STOCKPILE |
| | VEGETATION STOCKPILE |
| | PROPOSED UG ELECTRIC LINE |
| | PROPOSED WATER LINE |
| | DISTRIBUTION/TRANSMISSION/COMMUNICATION POLE |
| | EXISTING IRON PIN |
| | MAGNETIC PK NAIL |
| | EXISTING WATER LINE |
| | WATER VALVE |
| | PIV VALVE |
| | LIGHT POLE |
| | FIRE HYDRANT |
| | LIGHTNING MAST |
| | SANITARY SEWER MANHOLE |
| | GAS VALVE |
| | GAS METER |
| | ELECTRICAL MANHOLE |
| | OUTDOOR STAGING AREA |
| | DEMOLITION |
| | CONCRETE WASHOUT |
| | EXISTING GAS LINE |
| | PROPOSED GAS LINE |
| | PROPOSED VEGETATION |
| | GRAVEL |

| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| H | 08/26/21 | ISSUED FOR REVIEW | IFR | MESA | WED | WED |

CONTRACTOR: **linxon**
AN ABB & SNC LAVAUX COMPANY
901 MAIN CAMPUS DRIVE (SUITE 210)
RALEIGH, NC 27606

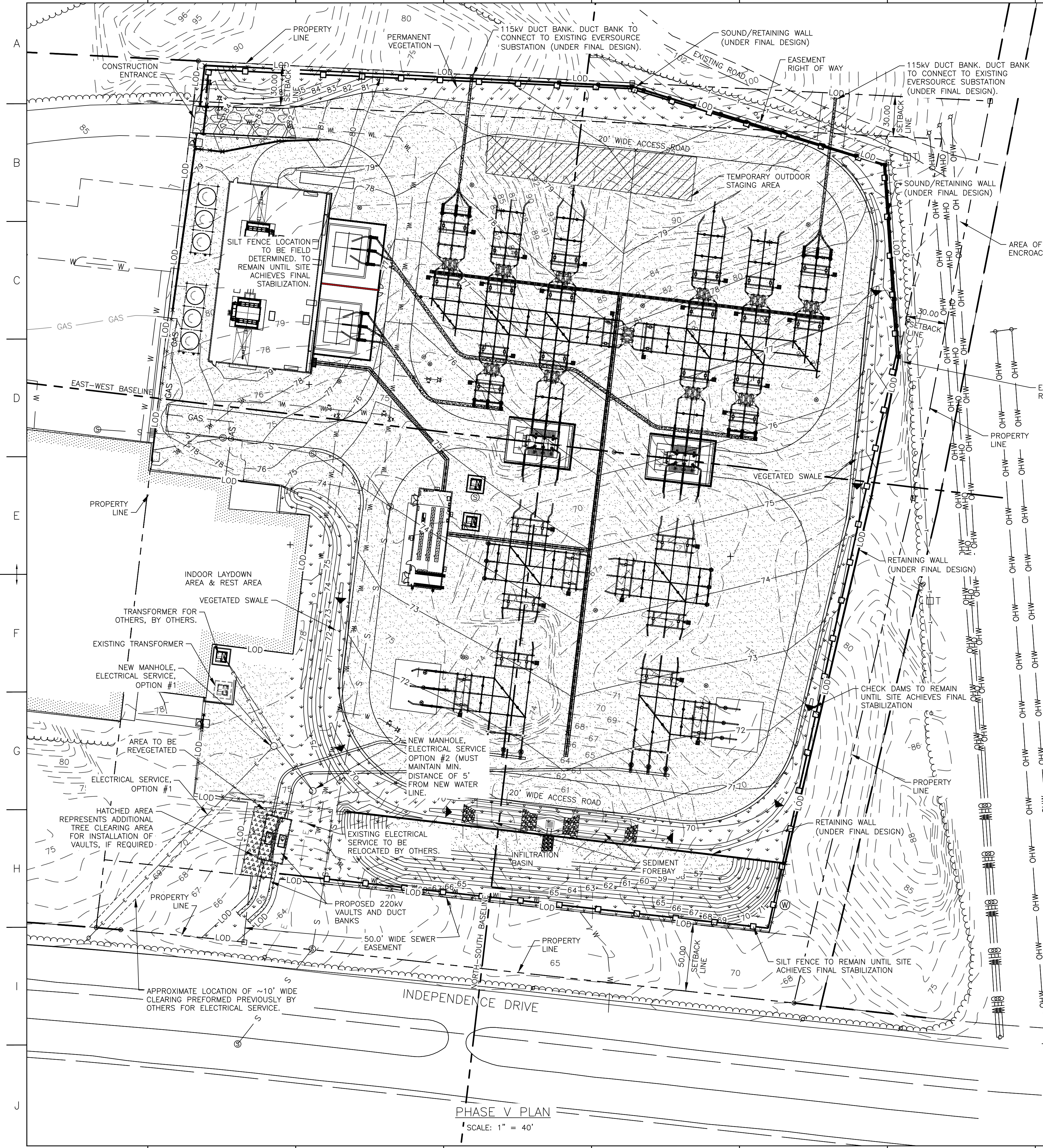
CLIENT: **VINEYARD WIND**
700 PLEASANT STREET, SUITE 510
NEW BEDFORD, MA. 02740

PROJECT: VINEYARD WIND OFFSHORE WIND PROJECT SUBSTATION

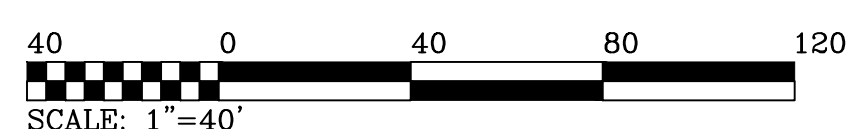
TITLE: SEDIMENT AND EROSION CONTROL PLAN - PHASE IV

DOC ID: VW-OSP-LNA-XE-0004-004

SHEET 04 OF 06 DWG. NO SHEET-004 SCALE 1:40 FORMAT/SIZE ANSI D REV H

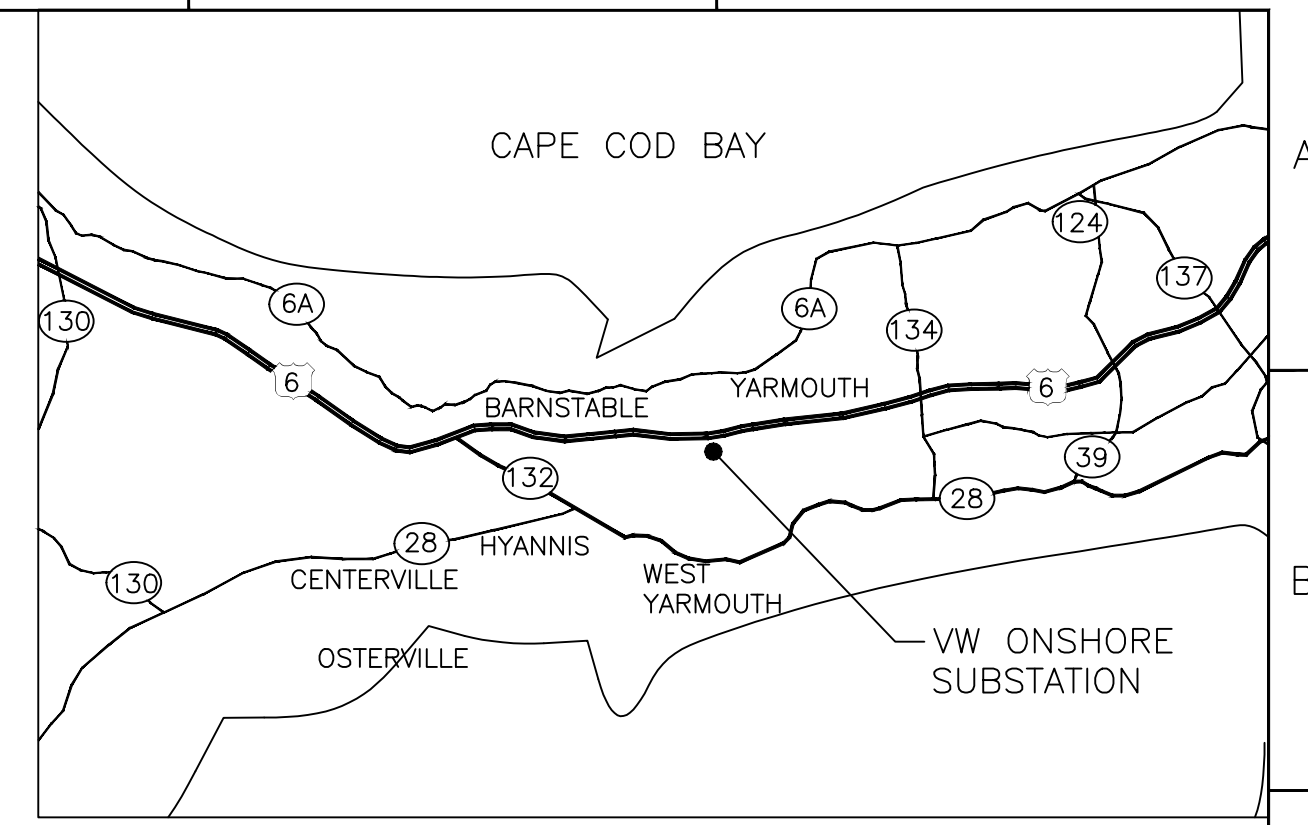


PHASE V PLAN
SCALE: 1" = 40'



PRELIMINARY
NOT FOR CONSTRUCTION

| GENERAL LEGEND | |
|----------------|----------------------------------------------|
| | EXISTING GRADE MAJOR CONTOUR |
| | EXISTING GRADE MINOR CONTOUR |
| | PROPOSED GRADE MAJOR CONTOUR |
| | PROPOSED GRADE MINOR CONTOUR |
| | EXISTING UNDERGROUND ELECTRIC |
| | PROPOSED CHAINLINK FENCE |
| | EROSION CONTROL/SILT FENCE |
| | PROJECT LIMIT OF CONSTRUCTION |
| | PROPERTY LINE |
| | ROAD CENTERLINE |
| | UNDERGROUND TELEPHONE |
| | OVERHEAD ELECTRIC LINES |
| | SANITARY SEWER LINE |
| | TREE/VEGETATION LINE |
| | SETBACK LINE |
| | LIMIT OF VEGETATION/TREE CLEARANCE |
| | TOPSOIL STOCKPILE |
| | VEGETATION STOCKPILE |
| | PROPOSED UG ELECTRIC LINE |
| | PROPOSED WATER LINE |
| | DISTRIBUTION/TRANSMISSION/COMMUNICATION POLE |
| | EXISTING IRON PIN |
| | MAGNETIC PK NAIL |
| | EXISTING WATER LINE |
| | WATER VALVE |
| | PIV VALVE |
| | LIGHT POLE |
| | FIRE HYDRANT |
| | LIGHTNING MAST |
| | SANITARY SEWER MANHOLE |
| | GAS VALVE |
| | GAS METER |
| | ELECTRICAL MANHOLE |
| | OUTDOOR STAGING AREA |
| | DEMOLITION |
| | CONCRETE WASHOUT |
| | EXISTING GAS LINE |
| | PROPOSED GAS LINE |
| | PROPOSED VEGETATION |
| | GRAVEL |



LOCATION MAP
SCALE: NTS

COMPANION DRAWINGS:

| SHEET NO. | TITLE |
|------------------------|---------------------------------------------|
| VW-OSP-LNA-XD-0001-001 | COVER SHEET |
| VW-OSP-LNA-XE-0004-001 | SEDIMENT AND EROSION CONTROL PLAN-PHASE I |
| VW-OSP-LNA-XE-0004-002 | SEDIMENT AND EROSION CONTROL PLAN-PHASE II |
| VW-OSP-LNA-XE-0004-003 | SEDIMENT AND EROSION CONTROL PLAN-PHASE III |
| VW-OSP-LNA-XE-0004-004 | SEDIMENT AND EROSION CONTROL PLAN-PHASE IV |
| VW-OSP-LNA-XE-0004-006 | SEDIMENT AND EROSION CONTROL PLAN-PHASE VI |
| VW-OSP-LNA-XS-0004-001 | EROSION AND SEDIMENT CONTROL NOTES |
| VW-OSP-LNA-XS-0004-002 | EROSION AND SEDIMENT CONTROL DETAILS |
| VW-OSP-LNA-XS-0004-003 | EROSION AND SEDIMENT CONTROL DETAILS |

MATERIAL REQUIRED:

AREA TO BE DISTURBED IN PHASE V _____ < 0.50 ACRES

GENERAL NOTES:

- NORTH ARROW AND BEARINGS BASED ON NAD 83 PER GPS READINGS BY BL COMPANIES IN JULY 2019 UTILIZING MACORS RTCM3.
- ELEVATIONS AND CONTOURS ARE BASED ON NAVD88 PER GPS READINGS BY BL COMPANIES JULY 2019 UTILIZING MACORS RTCM3.
- EXISTING SANITARY SEWER AS-BUILT LOCATION PROVIDED BY LAWRENCE-LYNCH CORPORATION IN JULY 2021.
- SEE DRAWINGS VW-OSP-LNA-XS-0004-002 AND VW-OSP-LNA-XS-0004-003 FOR EROSION AND SEDIMENT CONTROL DETAILS.
- TEMPORARY AND PERMANENT VEGETATION TO BE INSTALLED IN THE EVENT THAT THERE IS SOIL EXPOSURE. INSTALLATIONS SHALL BE PER THE STORMWATER POLLUTION PREVENTION PLAN, AS WELL AS THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS.
- CONTRACTOR MAY UTILIZE COMPOST SOCKS, WATTLES, AND/OR STRAW BALE BARRIERS IN LIEU OF SILT FENCE WITH APPROVAL OF SWPPP INSPECTOR AND ENGINEER.
- SILT FENCE ROCK OUTLETS SHALL BE LOCATED BY CONTRACTOR AT LOW POINTS ALONG THE SILT FENCE.
- THE EROSION AND SEDIMENT CONTROL/SILT FENCE AND LIMITS OF CONSTRUCTION (LOD) ARE GRAPHICALLY DEPICTED APART; HOWEVER, THE EROSION AND SEDIMENT CONTROL/SILT FENCE SHALL DEFINE THE LIMITS OF CONSTRUCTION WHERE EROSION AND SEDIMENT CONTROL/SILT FENCE ARE REQUIRED.

| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| H | 08/26/21 | ISSUED FOR REVIEW | IFR | MESA | WED | WED |

CONTRACTOR: **linxon**
AN ABB & SBC LAYALTI COMPANY
901 MAIN CAMPUS DRIVE (SUITE 210)
RALEIGH, NC 27606

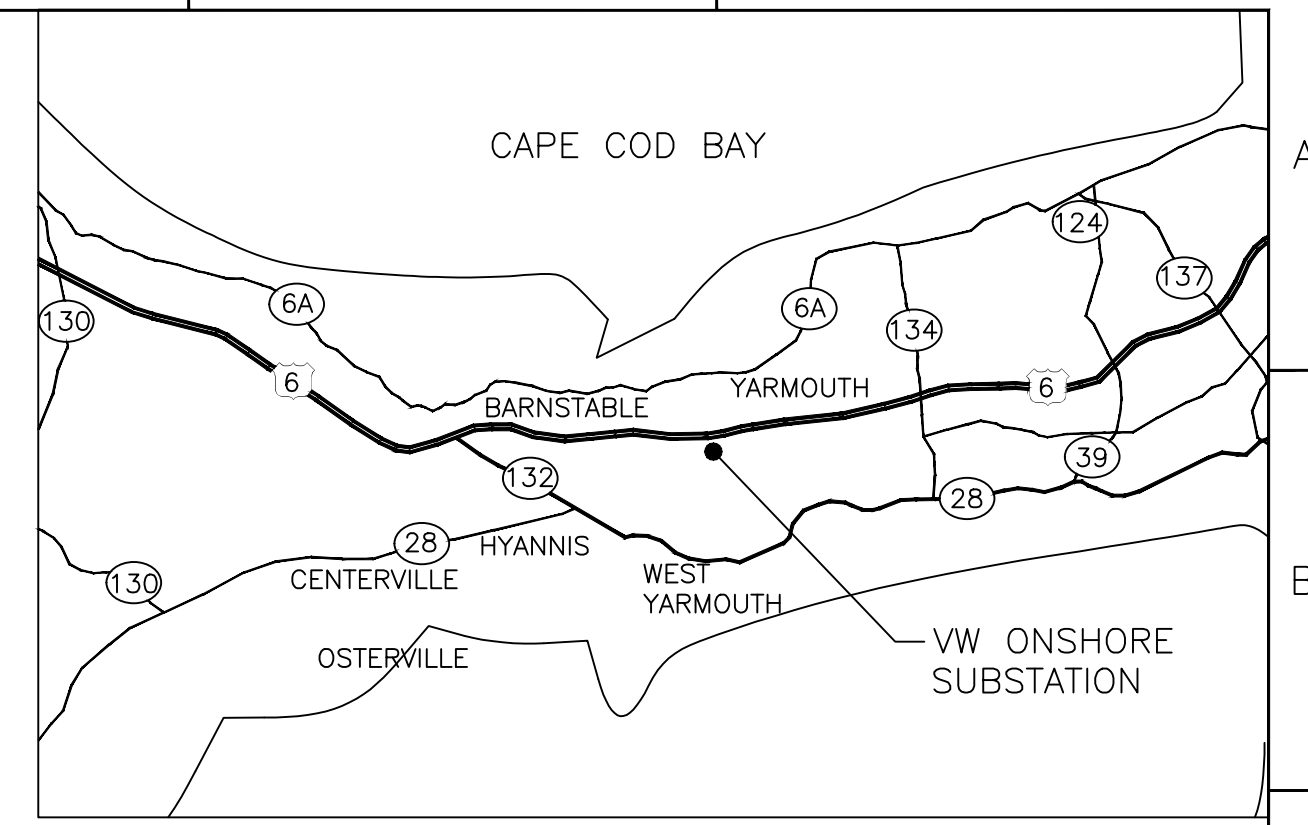
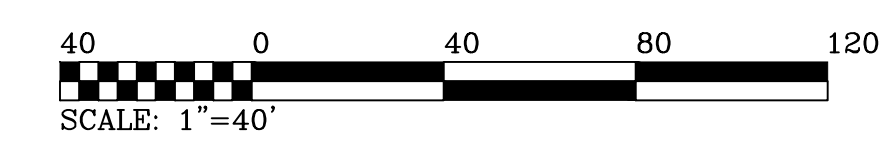
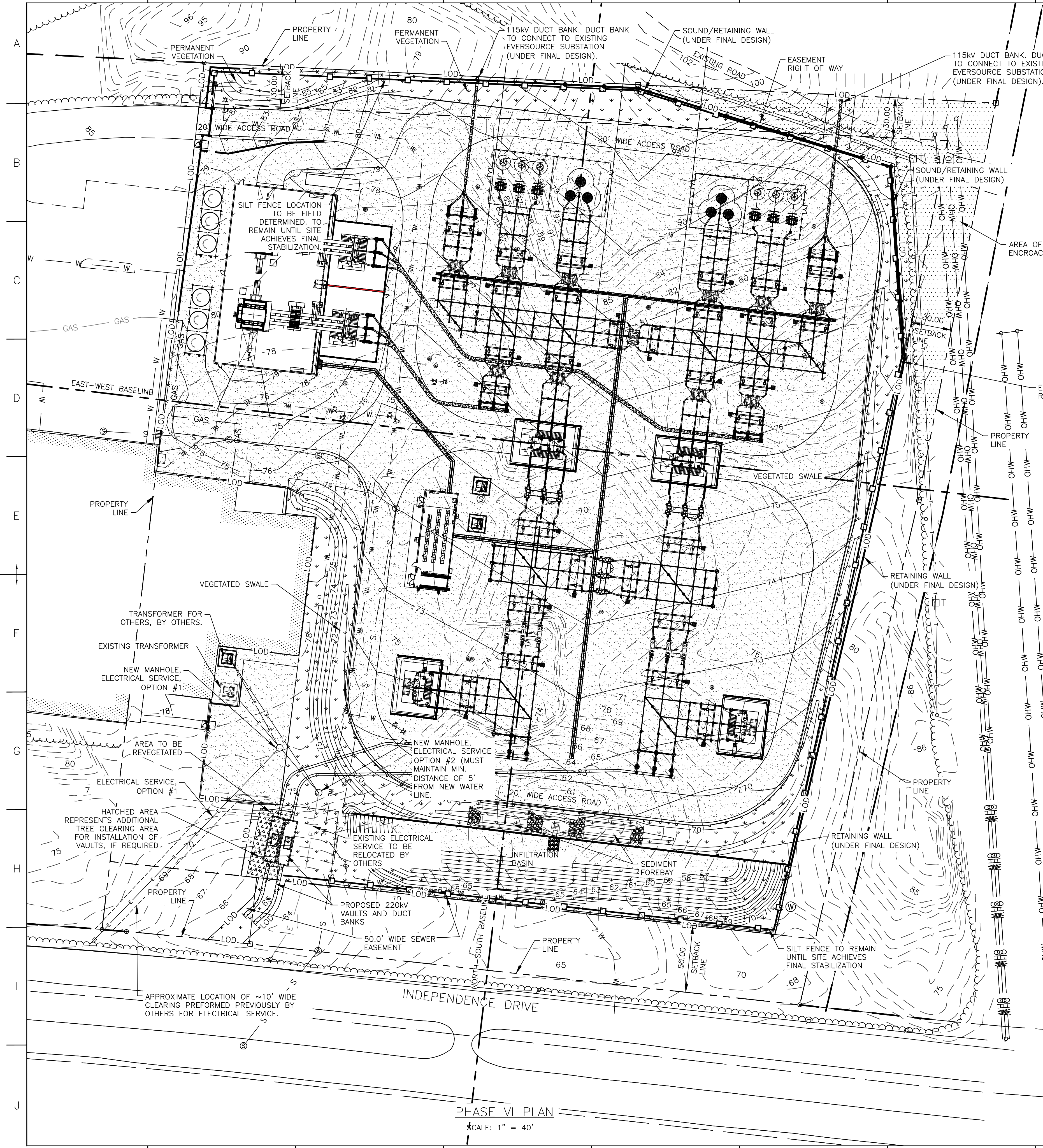
CLIENT: **VINEYARD WIND**
700 PLEASANT STREET, SUITE 510
NEW BEDFORD, MA. 02740

PROJECT: VINEYARD WIND OFFSHORE WIND PROJECT SUBSTATION

TITLE: SEDIMENT AND EROSION CONTROL PLAN - PHASE V

DOC ID: VW-OSP-LNA-XE-0004-005

| | | | | | | | | | |
|----------|----------|---------|-----------|-------|------|-------------|--------|-----|---|
| SHEET OF | 05 OF 06 | DWG. NO | SHEET-005 | SCALE | 1:40 | FORMAT/SIZE | ANSI D | REV | H |
|----------|----------|---------|-----------|-------|------|-------------|--------|-----|---|



LOCATION MAP
SCALE: NTS

COMPANION DRAWINGS:

| SHEET NO. | TITLE |
|------------------------|---------------------------------------------|
| VW-OSP-LNA-XD-0001-001 | COVER SHEET |
| VW-OSP-LNA-XE-0004-001 | SEDIMENT AND EROSION CONTROL PLAN—PHASE I |
| VW-OSP-LNA-XE-0004-002 | SEDIMENT AND EROSION CONTROL PLAN—PHASE II |
| VW-OSP-LNA-XE-0004-003 | SEDIMENT AND EROSION CONTROL PLAN—PHASE III |
| VW-OSP-LNA-XE-0004-004 | SEDIMENT AND EROSION CONTROL PLAN—PHASE IV |
| VW-OSP-LNA-XE-0004-005 | SEDIMENT AND EROSION CONTROL PLAN—PHASE V |
| VW-OSP-LNA-XS-0004-001 | EROSION AND SEDIMENT CONTROL NOTES |
| VW-OSP-LNA-XS-0004-002 | EROSION AND SEDIMENT CONTROL DETAILS |
| VW-OSP-LNA-XS-0004-003 | EROSION AND SEDIMENT CONTROL DETAILS |

MATERIAL REQUIRED:

AREA TO BE DISTURBED IN PHASE VI _____ 0.00 ACRES

GENERAL NOTES:

1. NORTH ARROW AND BEARINGS BASED ON NAD 83 PER GPS READINGS BY BL COMPANIES IN JULY 2019 UTILIZING MACORS RTCM3.
2. ELEVATIONS AND CONTOURS ARE BASED ON NAVD88 PER GPS READINGS BY BL COMPANIES JULY 2019 UTILIZING MACORS RTCM3.
3. EXISTING SANITARY SEWER AS-BUILT LOCATION PROVIDED BY LAWRENCE-LYNCH CORPORATION IN JULY 2021.
4. CONTRACTOR TO PROVIDE FINAL LANDSCAPING, PROVIDE CLEAN-UP OF SITE, AND DEMOBILIZE.
5. THE EROSION AND SEDIMENT CONTROL/SILT FENCE AND LIMITS OF CONSTRUCTION (LOD) ARE GRAPHICALLY DEPICTED APART; HOWEVER, THE EROSION AND SEDIMENT CONTROL/SILT FENCE SHALL DEFINE THE LIMITS OF CONSTRUCTION WHERE EROSION AND SEDIMENT CONTROL/SILT FENCE ARE REQUIRED.

PRELIMINARY
NOT FOR CONSTRUCTION

GENERAL LEGEND

| | | | |
|--|------------------------------------|--|----------------------------------------------|
| | EXISTING GRADE MAJOR CONTOUR | | DISTRIBUTION/TRANSMISSION/COMMUNICATION POLE |
| | EXISTING GRADE MINOR CONTOUR | | EXISTING IRON PIN |
| | PROPOSED GRADE MAJOR CONTOUR | | MAGNETIC PK NAIL |
| | PROPOSED GRADE MINOR CONTOUR | | EXISTING WATER LINE |
| | EXISTING UNDERGROUND ELECTRIC | | WATER VALVE |
| | PROPOSED CHAINLINK FENCE | | PIV VALVE |
| | EROSION CONTROL/SILT FENCE | | LIGHT POLE |
| | PROJECT LIMIT OF CONSTRUCTION | | FIRE HYDRANT |
| | PROPERTY LINE | | LIGHTNING MAST |
| | ROAD CENTERLINE | | SANITARY SEWER MANHOLE |
| | UNDERGROUND TELEPHONE | | GAS VALVE |
| | OVERHEAD ELECTRIC LINES | | GAS METER |
| | SANITARY SEWER LINE | | ELECTRICAL MANHOLE |
| | TREE/VEGETATION LINE | | OUTDOOR STAGING AREA |
| | SETBACK LINE | | DEMOLITION |
| | LIMIT OF VEGETATION/TREE CLEARANCE | | CONCRETE WASHOUT |
| | TOPSOIL STOCKPILE | | EXISTING GAS LINE |
| | VEGETATION STOCKPILE | | PROPOSED GAS LINE |
| | PROPOSED UG ELECTRIC LINE | | PROPOSED VEGETATION |
| | PROPOSED WATER LINE | | GRAVEL |

| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| H | 08/26/21 | ISSUED FOR REVIEW | IFR | MESA | WED | WED |

CONTRACTOR
linxon
AN ABB & SNC LAVAALIN COMPANY
901 MAIN CAMPUS DRIVE (SUITE 210)
RALEIGH, NC 27606

CLIENT
VINEYARD WIND
700 PLEASANT STREET, SUITE 510
NEW BEDFORD, MA. 02740

PROJECT
VINEYARD WIND OFFSHORE WIND PROJECT SUBSTATION

TITLE:
SEDIMENT AND EROSION CONTROL PLAN — PHASE VI

DOC ID:
VW-OSP-LNA-XE-0004-006

| SHEET OF | DWG. NO | SCALE | FORMAT/SIZE | REV |
|----------|-----------|-------|-------------|-----|
| 06 OF 06 | SHEET-006 | 1:40 | ANSI D | H |

EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH THE PROJECT SWPPP, PROJECT PLANS, AND APPLICABLE PERMITS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, LATEST EDITION.
3. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
4. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF SOIL, MUD, AND DEBRIS ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT IMMEDIATELY.
5. IF EXISTING BMP'S NEED TO BE MODIFIED OR IF ADDITIONAL BMP'S ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE STORM WATER QUALITY CONTROL MEASURES MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
6. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
7. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER WORK HAS CEASED EXCEPT AS STATED BELOW.
 - * WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - * WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
8. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK OR AFTER A RAIN EVENT PRODUCING 0.5" OR GREATER PRECIPITATION. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED THE PERMITTEE MUST PROMPTLY ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP.
9. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING DISCHARGED.
10. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
11. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
12. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
13. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS. SLOPES SHALL BE COVERED WITH ROCK FILL AND AN APPROVED EROSION CONTROL MATTING.
14. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL. TOPSOIL PRESERVATION SHOULD BE ON-SITE WITH PROPER SEDIMENT/EROSION CONTROLS. RECOMMENDED STOCK PILING LOCATION WITH DETAILS ARE SHOWN IN DESIGN DOCUMENTS.
15. PREVENT THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
16. PREVENT THE DISCHARGE OF POLLUTANTS FROM DE-WATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP'S (SEDIMENT BASIN, FILTER BAG, ETC.).
17. THE FOLLOWING DISCHARGES FROM THE SITE ARE PROHIBITED:
WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL (SUCH AS A CONCRETE WASHOUT PIT);
WASTEWATER FROM WASHOUT AND CLEAN OUT OF PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
18. AFTER CONSTRUCTION ACTIVITIES BEGIN, SWPPP INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

CLEARING NOTES:

1. IN PHASE I CLEARING WILL CONSIST OF TREE CUTTING ONLY. TREES WILL BE CUT AT GROUND SURFACE. STUMP REMOVAL OR OTHER EARTH DISTURBING ACTIVITIES WILL BE PERFORMED DURING A LATER CONSTRUCTION PHASE. THE SWPPP AND PROJECT DRAWINGS WILL BE AMENDED PRIOR TO SUBSEQUENT PHASES.
2. SOIL STOCKPILES ARE NOT ANTICIPATED DURING PHASE I CLEARING. IF TEMPORARY SOIL STOCKPILES ARE CREATED THEY SHOULD BE LOCATED IN AN APPROVED LOCATION AND SHALL BE SURROUNDED BY SILT FENCE. STOCKPILES SHALL BE STABILIZED WITH MULCH OR SEEDED IF THE STOCKPILE IS TO BE EXPOSED FOR 30 DAYS OR LONGER.
3. EXISTING UNDERGROUND AND OVERHEAD UTILITIES, PAVEMENT, STRUCTURES AND OTHER FEATURES DEPICTED ON THE DRAWINGS ARE SHOWN IN THE APPROXIMATE LOCATIONS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, IN THE FIELD, THE EXACT LOCATION OF THESE OR ANY OTHER EXISTING FEATURES IN OR ADJACENT TO THE PROJECT LIMITS.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
5. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY IN ACCORDANCE WITH ALL APPLICABLE OSHA STANDARDS.
7. TRASH/DEBRIS FROM CLEARING ACTIVITIES OR GENERATED BY ANY ACTIVITIES ON SITE MUST BE DISPOSED OF AT AN APPROVED FACILITY THAT MEETS ALL LOCAL AND STATE REQUIREMENTS.

STABILIZATION NOTES:

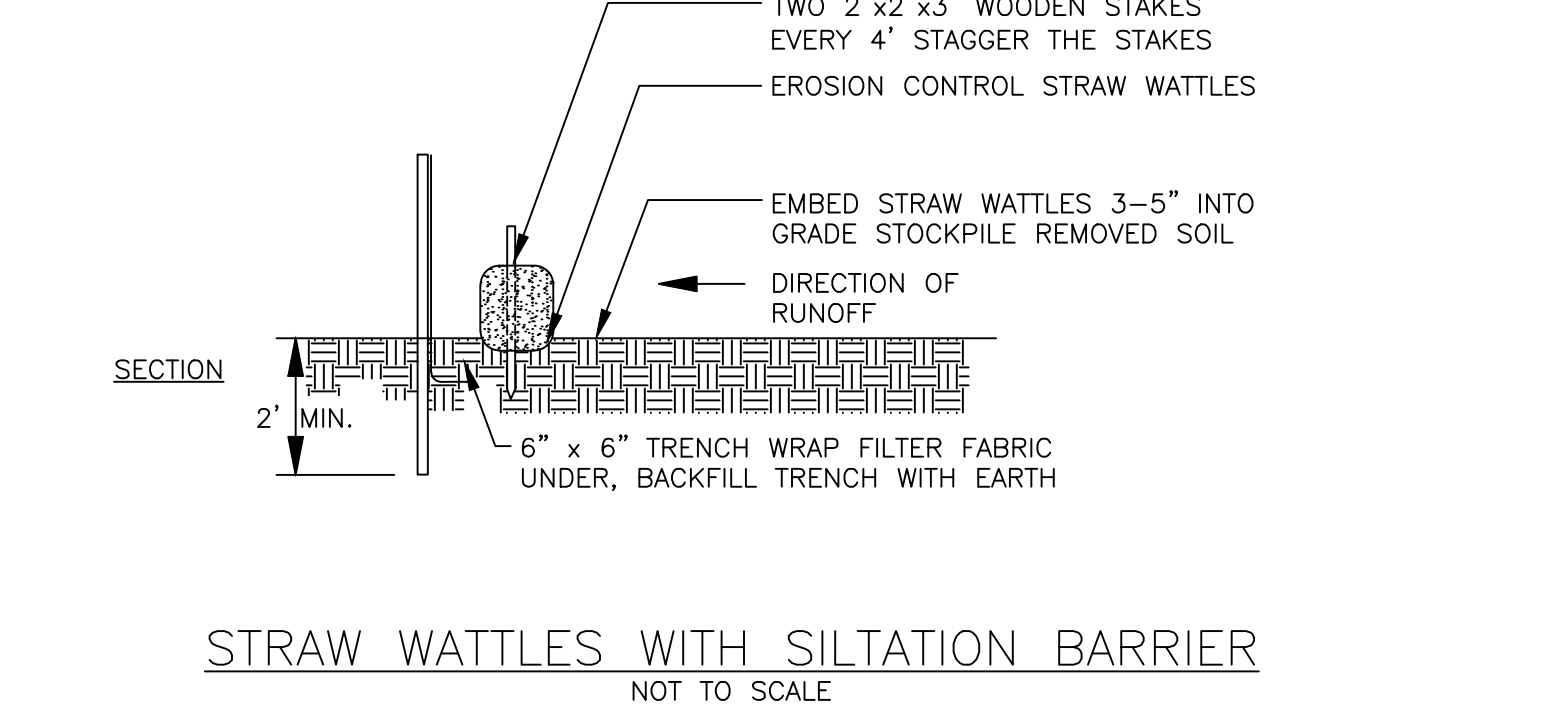
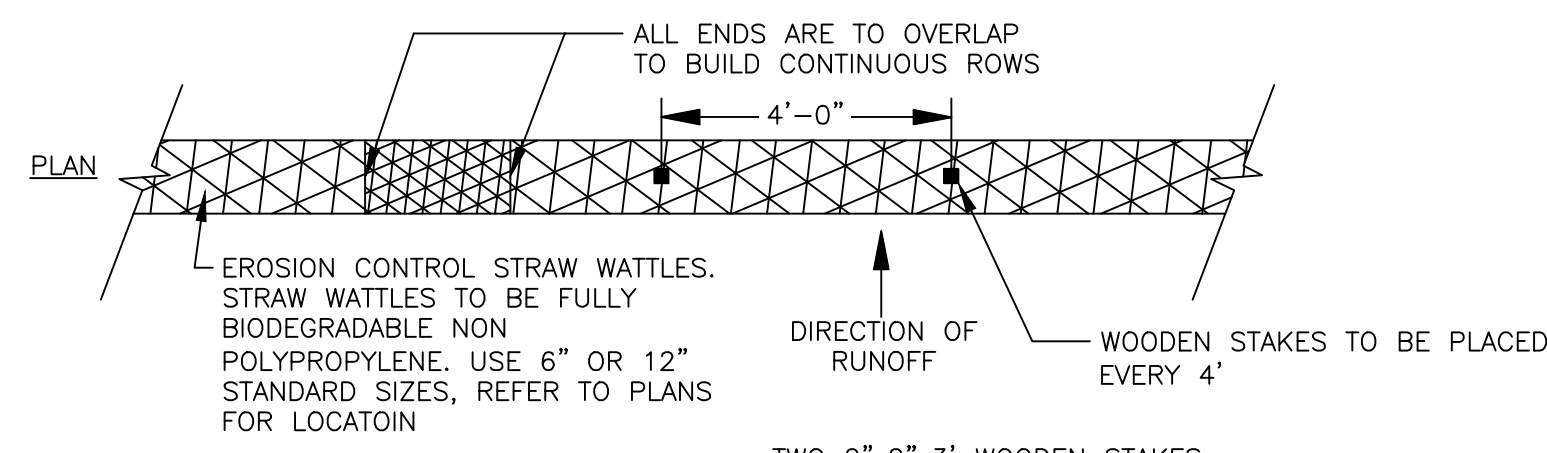
1. WHERE POSSIBLE THE CONTRACTOR SHALL MAINTAIN EXISTING VEGETATION TO MINIMIZE EROSION.
2. ALL DISTURBED AREAS NOT OCCUPIED BY PAVEMENT OR STONE SURFACING SHALL BE COVERED WITH MINIMUM 4" OF LOAM AND SEEDED.
3. TEMPORARY AND PERMANENT SEED MIXTURES AND PLANTING RATES SHALL MEET THE GUIDELINES OF THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, LATEST EDITION.
4. LOOSEN THE SOIL SURFACE BEFORE BROADCASTING THE SEED. APPLY SEED EVENLY BY THE MOST CONVENIENT METHOD AVAILABLE FOR THE TYPE OF SEED USED AND THE LOCATION OF THE TEMPORARY SEEDING. TYPICAL APPLICATION METHODS INCLUDE BUT ARE NOT LIMITED TO CYCLONE SEEDERS, ROTARY SPREADERS, DROP SPREADERS, BROADCAST SPREADERS, HAND SPREADERS, CULTIPACKER SEEDER, AND HYDRO-SEEDERS. COVER APPLIED SEED BY RAKING OR DRAGGING A CHAIN, AND THEN LIGHTLY FIRM THE AREA WITH A ROLLER OR CULTIPACKER.
5. TEMPORARY STABILIZATION IS REQUIRED WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IS COMPLETE. COVER SEEDED AREAS WITH AN APPROPRIATE MULCH TO PROVIDE PROTECTION FROM THE WEATHER. WHEN THE TEMPORARY VEGETATION DOES NOT GROW QUICKLY OR THICK ENOUGH TO PREVENT EROSION, RE-SEED AS SOON AS POSSIBLE. KEEP SEEDED AREAS ADEQUATELY MOIST. IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS. WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORB WATER TO PREVENT RUNOFF. RUNOFF OF IRRIGATION WATER WASTES WATER AND CAN CAUSE EROSION.
6. USE MULCH WITH TEMPORARY SEED APPLICATIONS TO RETAIN SOIL MOISTURE AND REDUCE EROSION DURING THE ESTABLISHMENT OF VEGETATION. TYPICAL MULCH APPLICATIONS INCLUDE STRAW, WOOD FIBER, HYDROMULCHES, BFM AND FGM. USE HYDROMULCHES WITH A MINIMUM BLEND OF 70% WOOD FIBERS.
7. THE MOST COMMONLY ACCEPTED MULCH USED IN CONJUNCTION WITH TEMPORARY SEEDING IS SMALL GRAIN STRAW. THIS STRAW SHOULD BE DRY AND FREE FROM MOLD DAMAGE AND NOXIOUS WEEDS. THE STRAW MAY NEED TO BE ANCHORED WITH NETTING OR EMULSIONS TO PREVENT IT FROM BEING BLOWN OR WASHED AWAY. APPLY THE STRAW MULCH BY HAND OR MACHINE AT THE RATE 1.5-2 TONS PER ACRE (90 POUNDS PER 1000 SQUARE FEET). FREQUENT INSPECTIONS ARE NECESSARY TO CHECK THAT CONDITIONS FOR GROWTH ARE GOOD.
8. RE-SEED AREAS WHERE SEEDING DOES NOT GROW QUICKLY, THICK ENOUGH, OR ADEQUATELY TO PREVENT EROSION.
9. PERMANENT SEEDING SHALL OCCUR BETWEEN MARCH 1 AND JUNE 15, OR BETWEEN AUGUST 15 AND OCTOBER 15.

**PRELIMINARY
NOT FOR CONSTRUCTION**

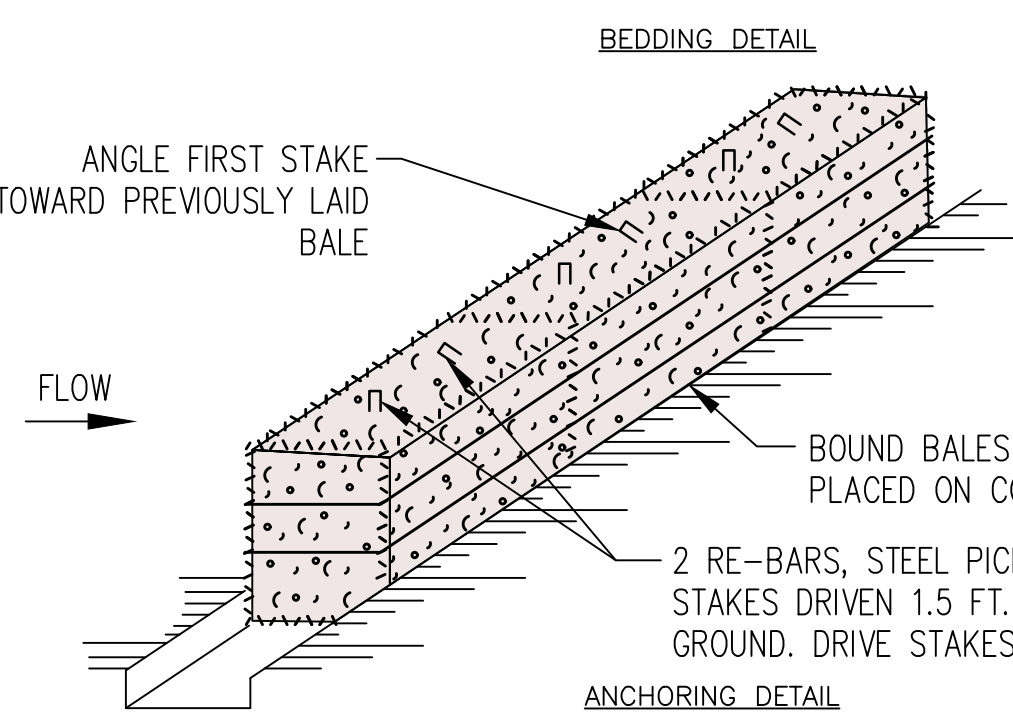
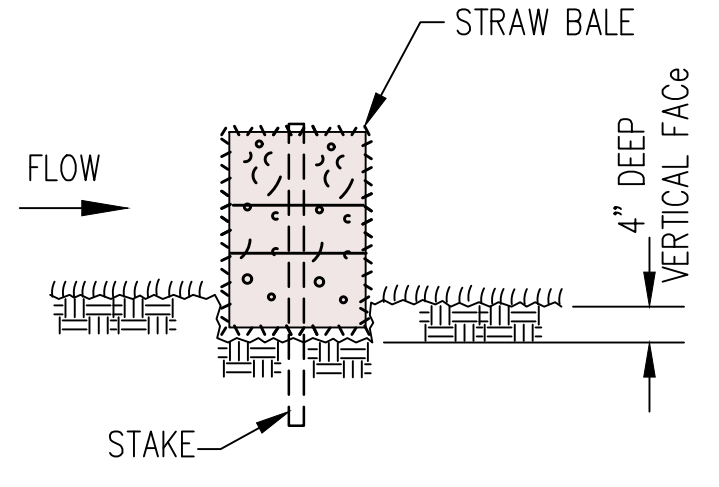
COMPANION DRAWINGS:

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><u>SHEET NO.</u></p> <p>VW-OSP-LNA-XD-0001-001 VW-OSP-LNA-XE-0004-001 VW-OSP-LNA-XE-0004-002 VW-OSP-LNA-XE-0004-003 VW-OSP-LNA-XE-0004-004 VW-OSP-LNA-XE-0004-005 VW-OSP-LNA-XE-0004-006 VW-OSP-LNA-XS-0004-002 VW-OSP-LNA-XS-0004-003</p> | <p><u>TITLE</u></p> <p>COVER SHEET SEDIMENT AND EROSION CONTROL PLAN-PHASE I SEDIMENT AND EROSION CONTROL PLAN-PHASE II SEDIMENT AND EROSION CONTROL PLAN-PHASE III SEDIMENT AND EROSION CONTROL PLAN-PHASE IV SEDIMENT AND EROSION CONTROL PLAN-PHASE V SEDIMENT AND EROSION CONTROL PLAN-PHASE VI EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | | | | | | | | | | |
|-------------------|----------------------|----------------------------------------------------------------------------------------|-----------------------|----------|------|-------|--|--|--|--|
| | | | | | | | | | | |
| C | 06/11/21 | ISSUED FOR REVIEW | IFA | MESA | PJO | WED | | | | |
| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. | | | | |
| CONTRACTOR | | AN ABS & S&C LAYALIN COMPANY 901 MAIN CAMPUS DRIVE (SUITE 210) RALEIGH, NC 27606 | | | | | | | | |
| CLIENT | | 700 PLEASANT STREET, SUITE 510 NEW BEDFORD, MA. 02740 | | | | | | | | |
| PROJECT | | VINEYARD WIND OFFSHORE WIND PROJECT SUBSTATION | | | | | | | | |
| TITLE: | | EROSION AND SEDIMENT CONTROL NOTES | | | | | | | | |
| DOC ID: | | VW-OSP-LXN-XS-0004 | | | | | | | | |
| SHEET 01 OF 03 | DWG. NO SHEET-001 | SCALE 1:1 | FORMAT/SIZE ANSI D | REV C | | | | | | |

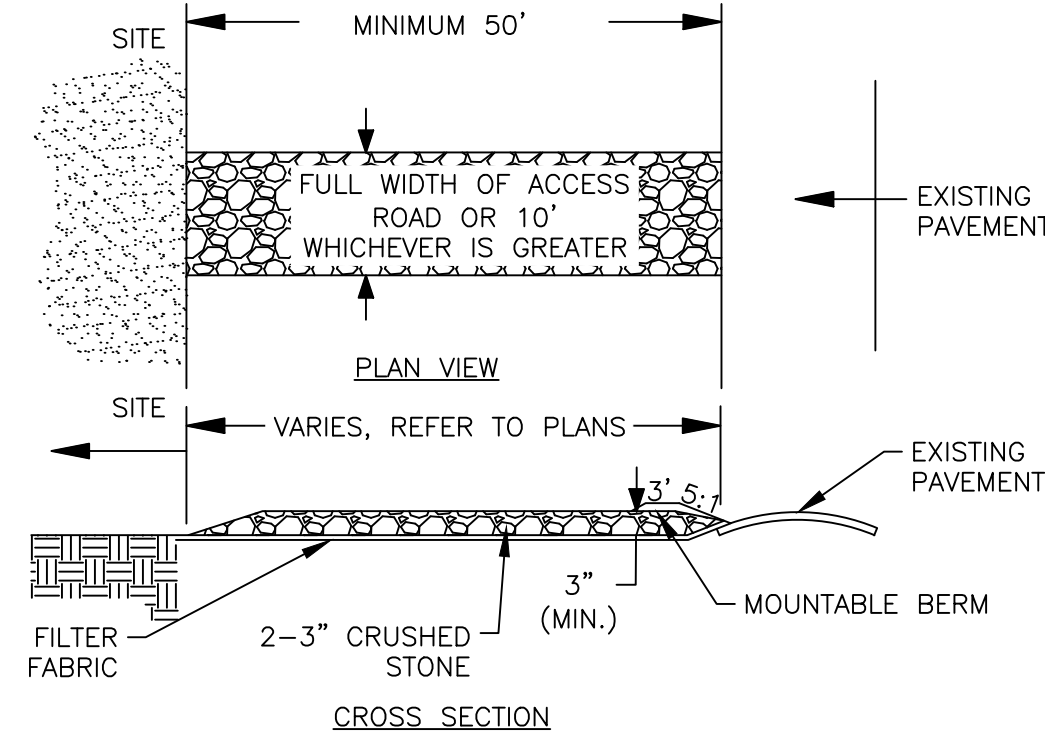


STRAW WATTLES WITH SILTATION BARRIER
NOT TO SCALE



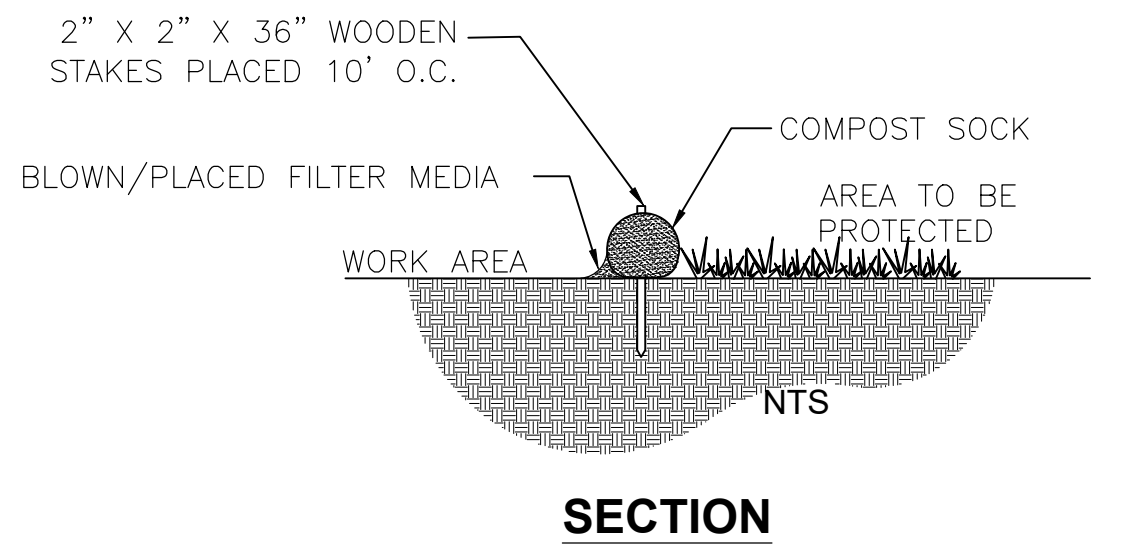
STRAW BALE BARRIER DETAIL
NOT TO SCALE

- NOTES:
- BALES SHALL BE PLACED AT THE TOP OF SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 - EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4", AND PLACED SO THAT BINDINGS ARE HORIZONTAL.
 - BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
 - INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

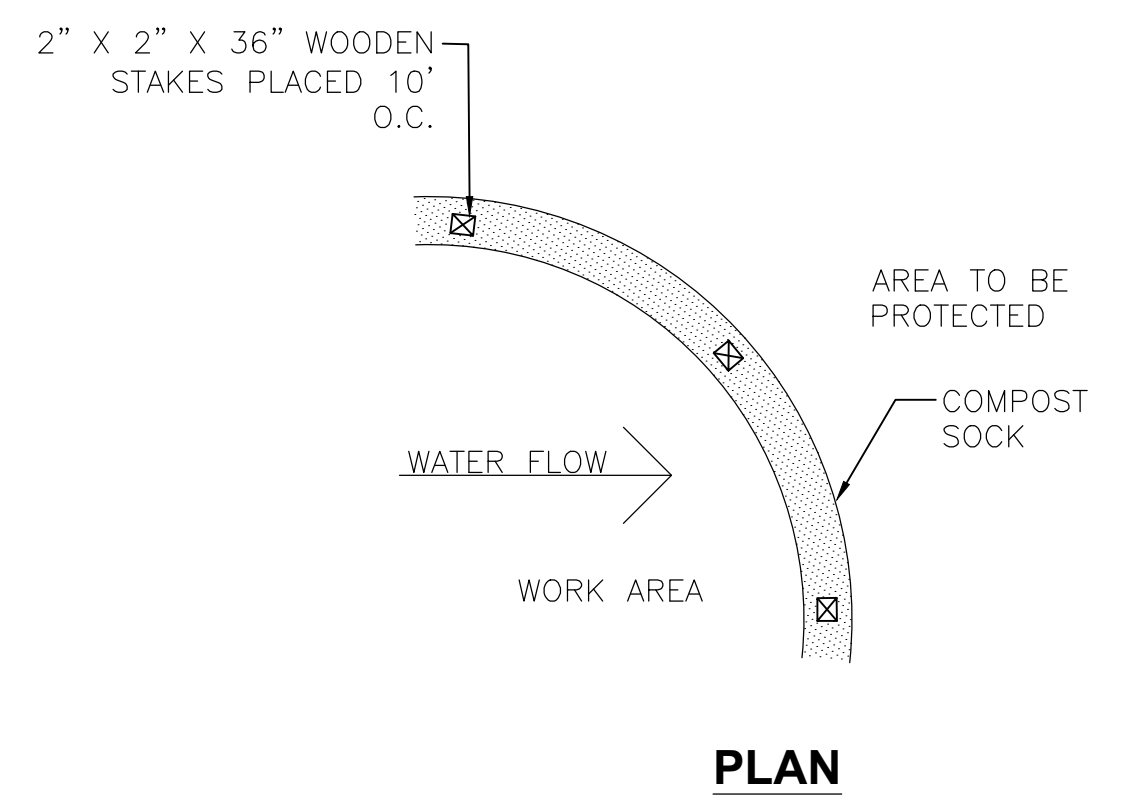


- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO THE ABUTTING SITE OR PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO THE ABUTTING PROPERTY OR PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
 - IF NECESSARY, TEMPORARY CONSTRUCTION ACCESS POINTS WILL ALSO CONTAIN TEMPORARY TRUCK WHEEL WASHING AREA TO FURTHER PREVENT TRACKING ONTO EXISTING ROADWAYS.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



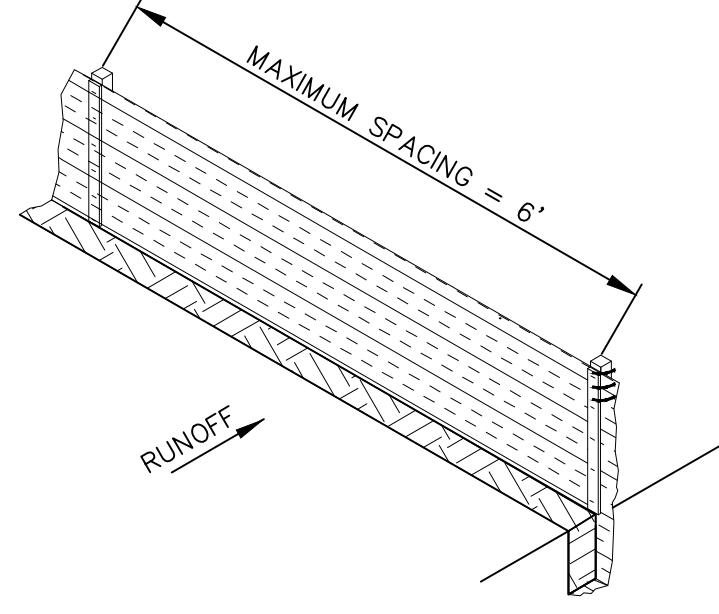
SECTION



PLAN

- NOTES:
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - REMOVE ACCUMULATED SEDIMENT AND DEBRIS BEFORE IT REACHES HALF OF THE ABOVE GROUND HEIGHT OF THE TUBE.
 - COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

COMPOST SOCK
NOT TO SCALE

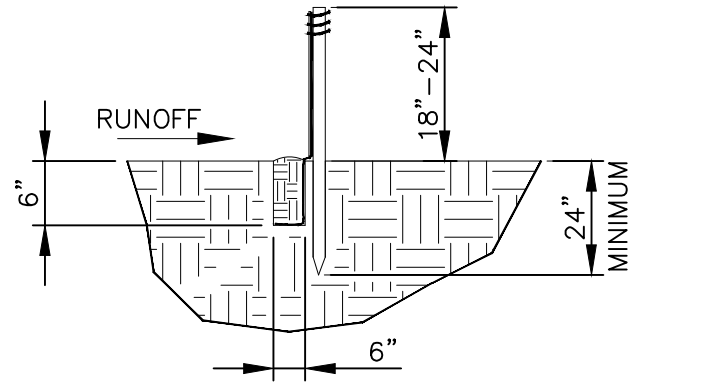


SILT FENCE INSTALLATION

SILT FENCE – GENERAL NOTES

- DO NOT PLACE SILT FENCE ACROSS CHANNELS OR IN OTHER AREAS SUBJECT TO CONCENTRATED FLOWS. SILT FENCE SHOULD NOT BE USED AS A VELOCITY CONTROL BMP. CONCENTRATED FLOWS ARE ANY FLOWS GREATER THAN 0.5 CFS.
- MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE SILT FENCE SHALL BE 100- FEET.
- MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO THE FENCE LINE) SHALL BE 2:1.
- SILT FENCE JOINTS, WHEN NECESSARY, SHALL BE COMPLETED BY ONE OF THE FOLLOWING OPTIONS:

WRAP EACH FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 1 FOOT MINIMUM OVERLAP;
OVERLAP SILT FENCE BY INSTALLING 3- FEET PASSED THE SUPPORT POST TO WHICH THE NEW SILT FENCE ROLL IS ATTACHED. ATTACH OLD ROLL TO NEW ROLL WITH HEAVY-DUTY PLASTIC TIES; OR,
OVERLAP ENTIRE WIDTH OF EACH SILT FENCE ROLL FROM ONE SUPPORT POST TO THE NEXT SUPPORT POST.
- ATTACH FILTER FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED WITHIN THE TOP 8-INCHES OF THE FABRIC.
- INSTALL THE SILT FENCE PERPENDICULAR TO THE DIRECTION OF THE STORMWATER FLOW AND PLACE THE SILT FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.
- INSTALL SILT FENCE CHECKS (TIE-BACKS) EVERY 50-100 FEET, DEPENDENT ON SLOPE, ALONG SILT FENCE THAT IS INSTALLED WITH SLOPE AND WHERE CONCENTRATED FLOWS ARE EXPECTED OR ARE DOCUMENTED ALONG THE PROPOSED/INSTALLED SILT FENCE.
- ALL SILT FENCE INSTALLED AT TOE OF SLOPE MUST BE INSTALLED A MINIMUM OF 10'-0" OFF THE TOE.

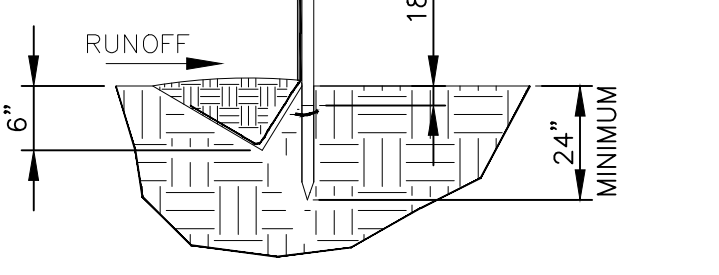


FLAT-BOTTOM TRENCH DETAIL

SILT FENCE – POST REQUIREMENTS

- SILT FENCE POSTS MUST BE 48-INCH LONG STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS:

COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
INCLUDE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND A NOMINAL "T" LENGTH OF 1.48-INCHES.
WEIGH 1.25 POUNDS PER FOOT (± 8%)
- POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF FILTER FABRIC.
- STEEL POSTS MAY NEED TO HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM WHEN INSTALLED ALONG STEEP SLOPES OR INSTALLED IN LOOSE SOILS. THE PLATE SHOULD HAVE A MINIMUM CROSS SECTION OF 17-SQUARE INCHES AND BE COMPOSED OF 15 GAUGE STEEL, AT A MINIMUM. THE METAL SOIL STABILIZATION PLATE SHOULD BE COMPLETELY BURIED.
- INSTALL POSTS TO A MINIMUM OF 24-INCHES BELOW GROUND. A MINIMUM HEIGHT OF 1- TO 2- INCHES ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 2 FEET SHALL BE MAINTAINED ABOVE THE GROUND.
- POST SPACING SHALL BE AT A MAXIMUM OF 6- FEET ON CENTER.



V-SHAPED TRENCH DETAIL

SILT FENCE – FABRIC REQUIREMENTS

- SILT FENCE MUST BE COMPOSED OF WOVEN GEOTEXTILE FILTER FABRIC THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:

COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES THAT ARE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER;

FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION;

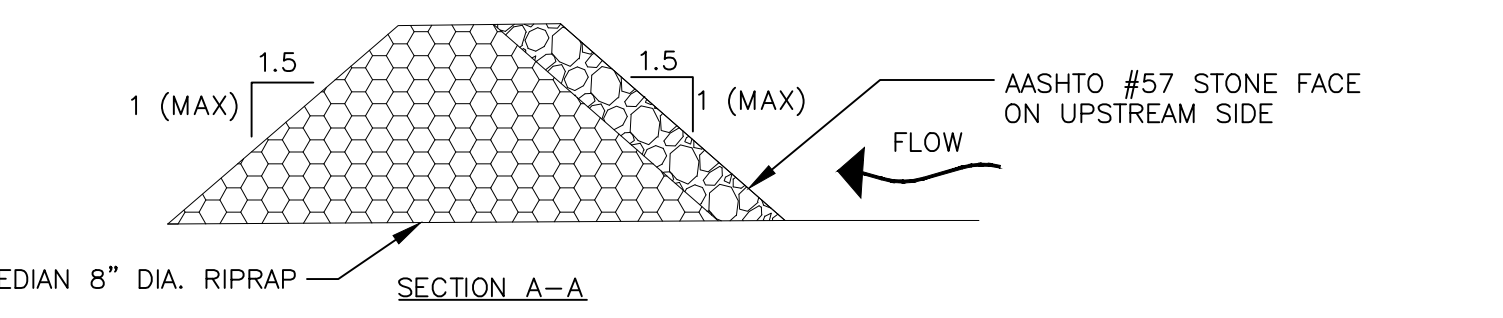
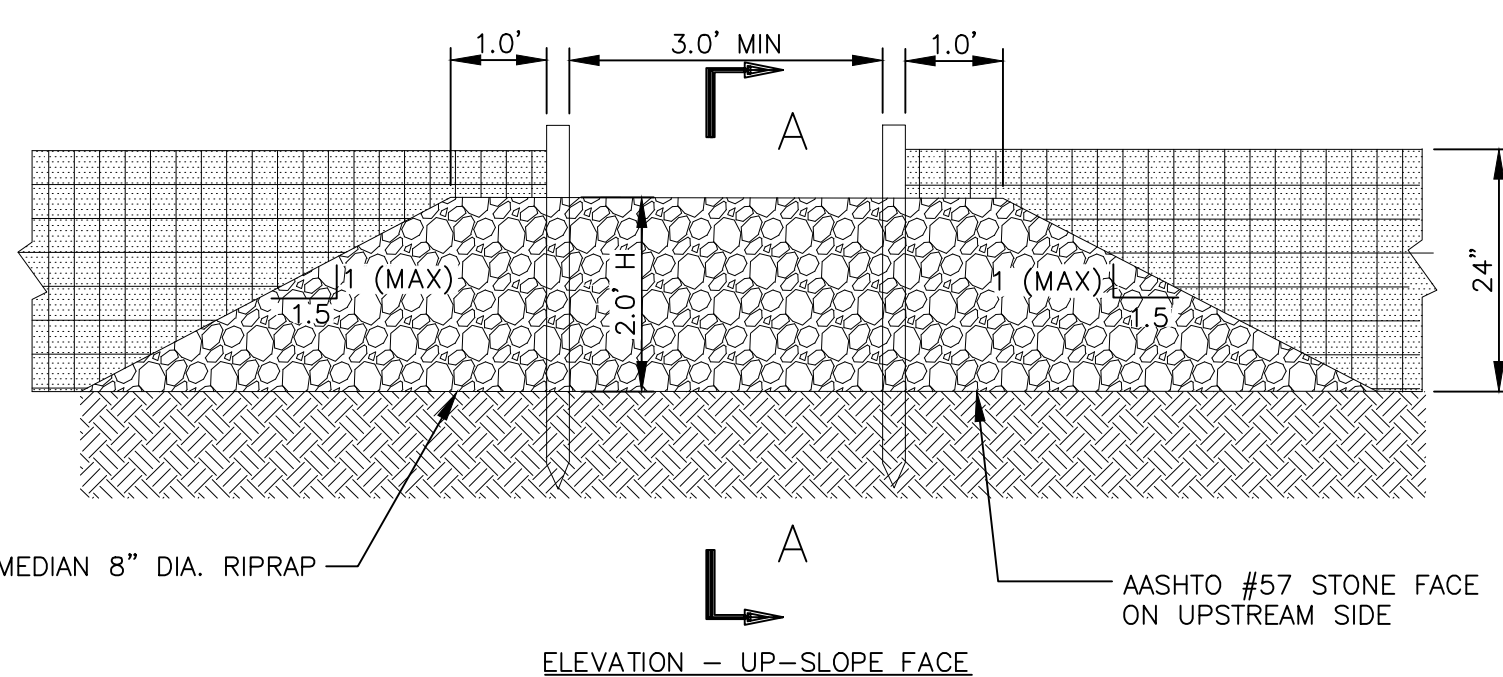
FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,

HAVE A MINIMUM WIDTH OF 36-INCHES.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
- FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,

HAVE A MINIMUM WIDTH OF 36-INCHES.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.

SILT FENCE – INSPECTION & MAINTENANCE

- THE KEY TO FUNCTIONAL SILT FENCE IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF SILT FENCE SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24 HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES ½" OR MORE OF PRECIPITATION.
- ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE SILT FENCE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ½ THE HEIGHT OF THE SILT FENCE.
- REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
- CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH THE SILT FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE SILT FENCE. INSTALL CHECKS/TIE-BACKS AND/OR REINSTALL SILT FENCE, AS NECESSARY.
- CHECK FOR TEARS WITHIN THE SILT FENCE, AREAS WHERE SILT FENCE HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE SILT FENCE INEFFECTIVE. REMOVED DAMAGED SILT FENCE AND REINSTALL NEW SILT FENCE IMMEDIATELY.
- SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND ONCE IT IS REMOVED, THE RESULTING DISTURBED AREA SHALL BE PERMANENTLY STABILIZED.



- NOTES:
- WASHED STONE (#57) TO BE REMOVED AND REPLACED ONCE IT BECOMES CLOGGED WITH SEDIMENT.
 - SEDIMENT TO BE REMOVED WHEN ACCUMULATIONS REACH 1/3 HEIGHT OF SILT FENCE
 - THE KEY TO FUNCTIONAL ROCK OUTLETS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

SILT FENCE ROCK OUTLET DETAIL

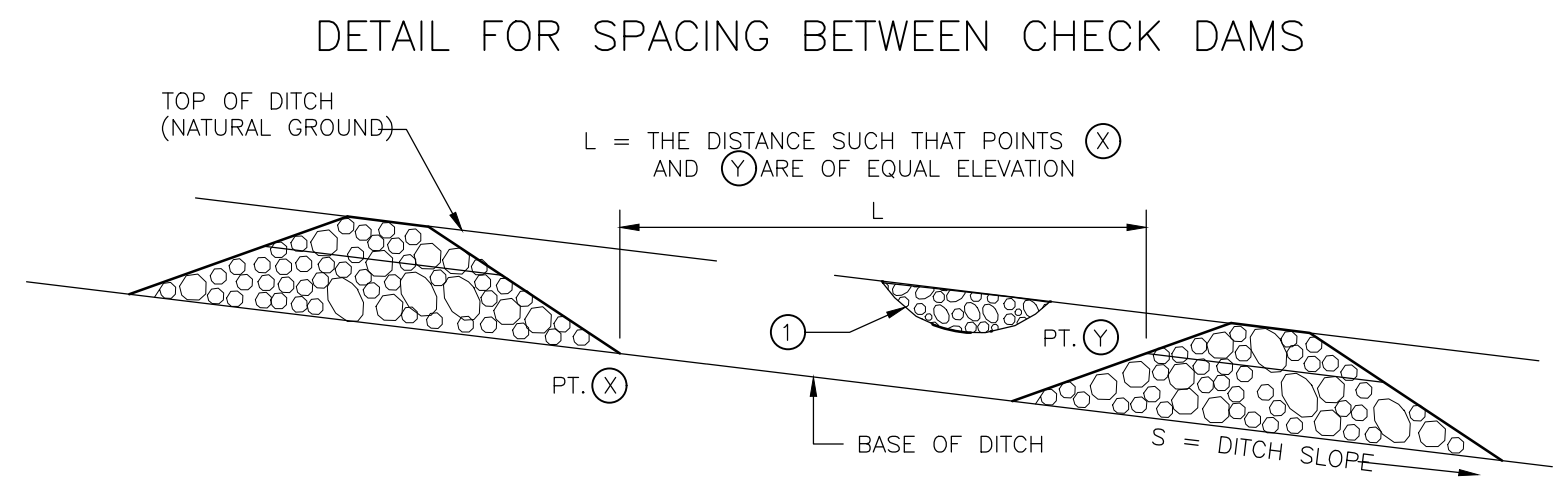
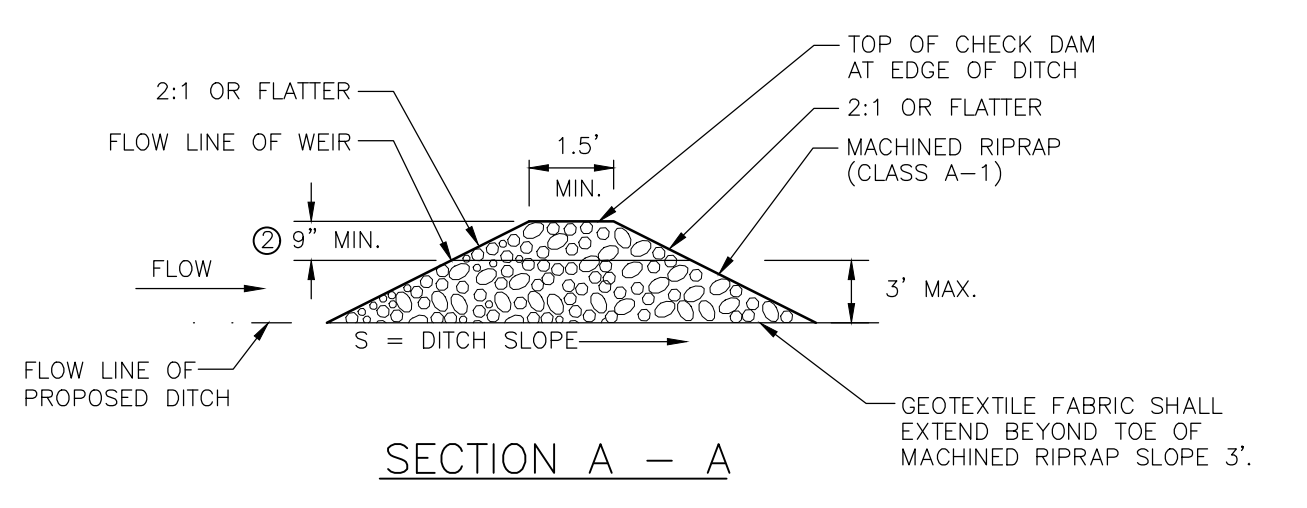
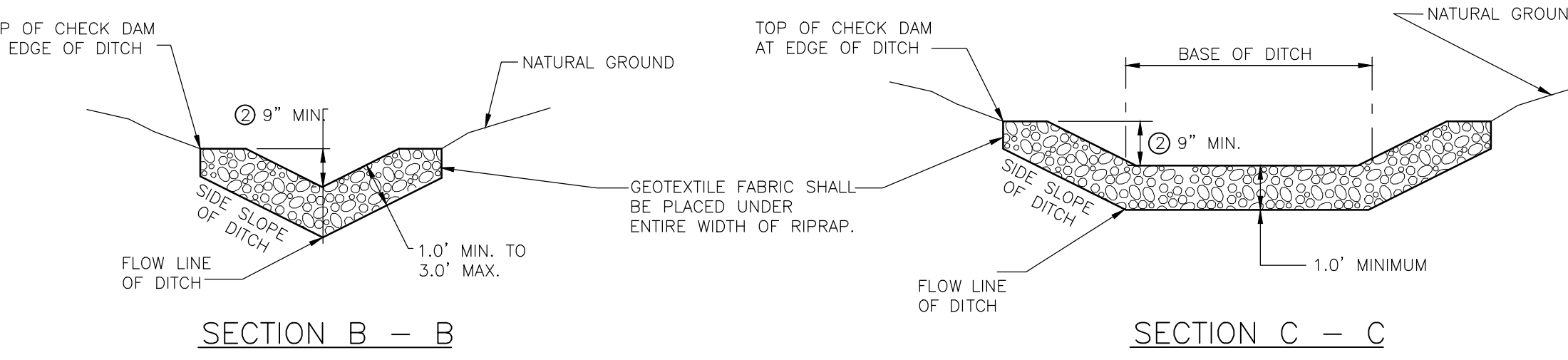
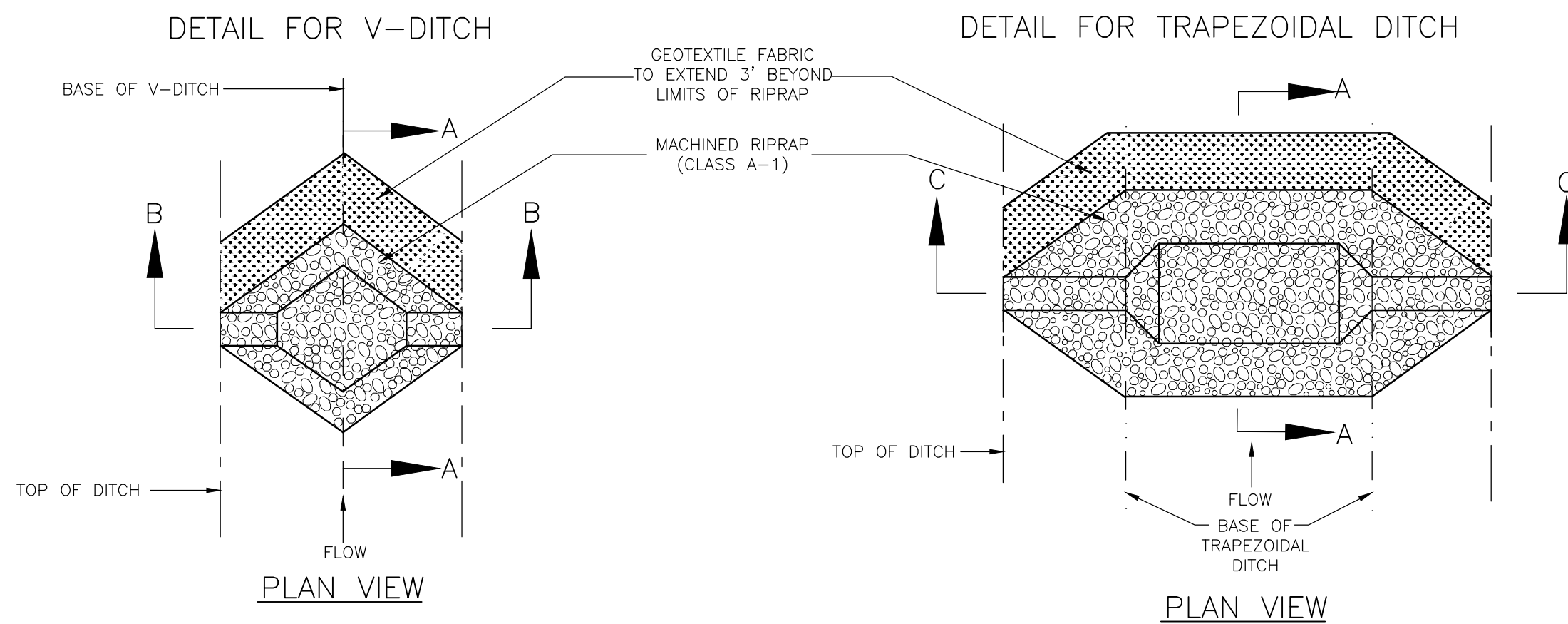
COMPANION DRAWINGS:

| SHEET NO. | TITLE |
|------------------------|---------------------------------------------|
| VW-OSP-LNA-XD-0001-001 | COVER SHEET |
| VW-OSP-LNA-XE-0004-001 | SEDIMENT AND EROSION CONTROL PLAN-PHASE I |
| VW-OSP-LNA-XE-0004-002 | SEDIMENT AND EROSION CONTROL PLAN-PHASE II |
| VW-OSP-LNA-XE-0004-003 | SEDIMENT AND EROSION CONTROL PLAN-PHASE III |
| VW-OSP-LNA-XE-0004-004 | SEDIMENT AND EROSION CONTROL PLAN-PHASE IV |
| VW-OSP-LNA-XE-0004-005 | SEDIMENT AND EROSION CONTROL PLAN-PHASE V |
| VW-OSP-LNA-XE-0004-006 | SEDIMENT AND EROSION CONTROL PLAN-PHASE VI |
| VW-OSP-LNA-XS-0004-001 | EROSION AND SEDIMENT CONTROL NOTES |
| VW-OSP-LNA-XS-0004-003 | EROSION AND SEDIMENT CONTROL DETAILS |

PRELIMINARY
NOT FOR CONSTRUCTION

| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| C | 06/11/21 | ISSUED FOR REVIEW | IFA | MESA | PJO | WED |

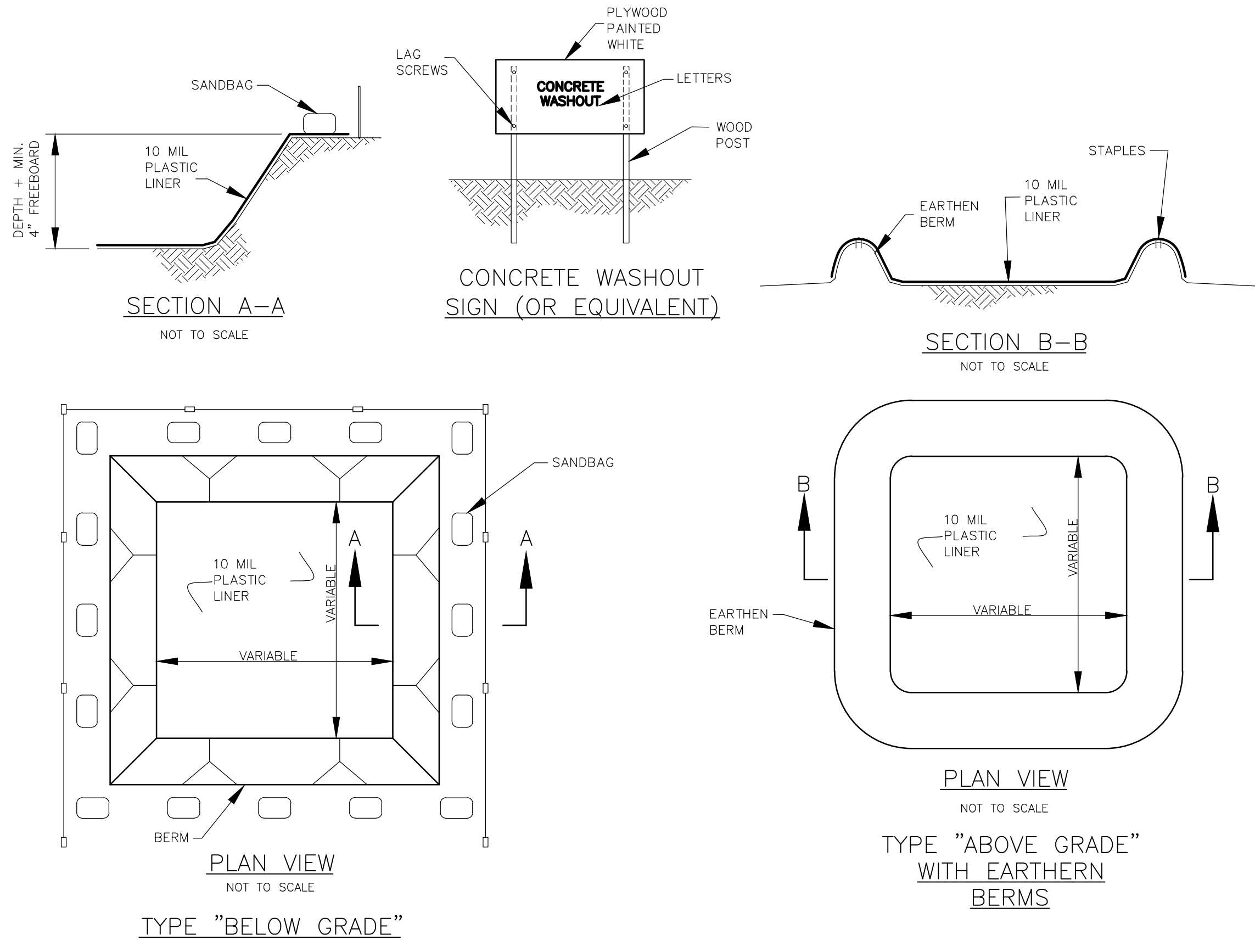
| | | | | | | | | | |
|------------|----------------------------------------------------------------------------------------------------------|---------|-----------|-------|--------|-------------|--------|-----|---|
| CONTRACTOR | linxon AN ABB & SNC LAVALLIN COMPANY 901 MAIN CAMPUS DRIVE (SUITE 210) RALEIGH, NC 27606 | | | | | | | | |
| CLIENT | VINEYARD WIND 700 PLEASANT STREET, SUITE 510 NEW BEDFORD, MA. 02740 | | | | | | | | |
| PROJECT | VINEYARD WIND OFFSHORE WIND PROJECT SUBSTATION | | | | | | | | |
| TITLE: | EROSION AND SEDIMENT CONTROL DETAILS | | | | | | | | |
| DOC ID: | VW-OSP-LNA-XS-0004 | | | | | | | | |
| SHEET OF | 02 OF 03 | DWG. NO | SHEET-002 | SCALE | N.T.S. | FORMAT/SIZE | ANSI D | REV | C |



- NOTES:
1. FILL LOW AREAS ALONG TOP OF BANK TO PREVENT BACKWATER FROM EXITING DITCH.
 2. WEIR FLOW DEPTH BASED UPON 2yr/24hr STORM EVENT OR 5yr/24hr STORM EVENT.

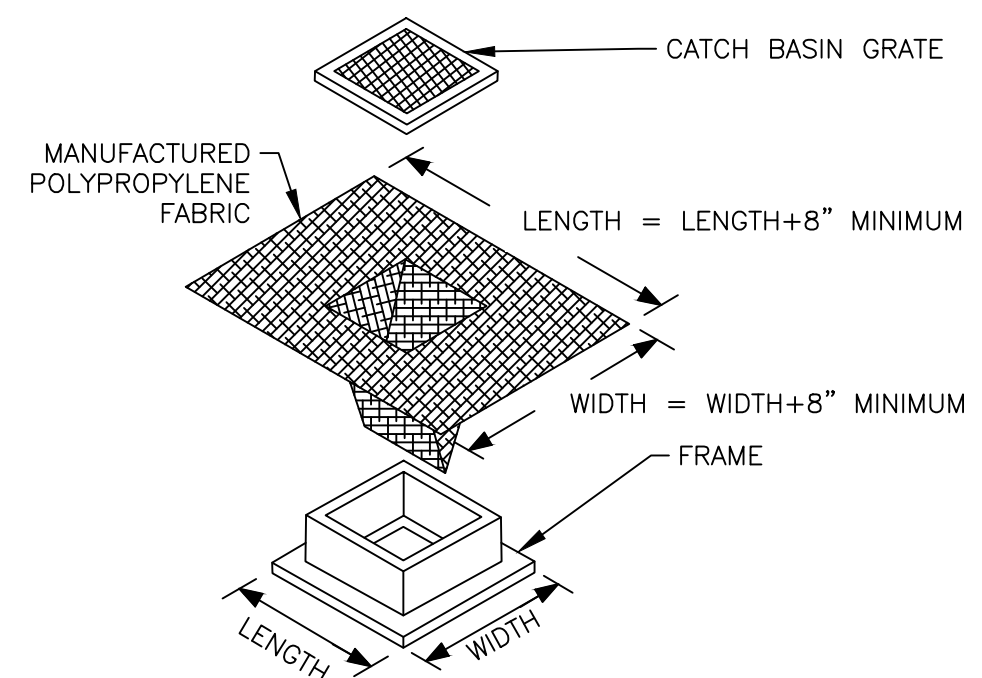
EROSION CONTROL PLAN LEGEND → → → → CHECK DAM

CHECK DAM
NOT TO SCALE



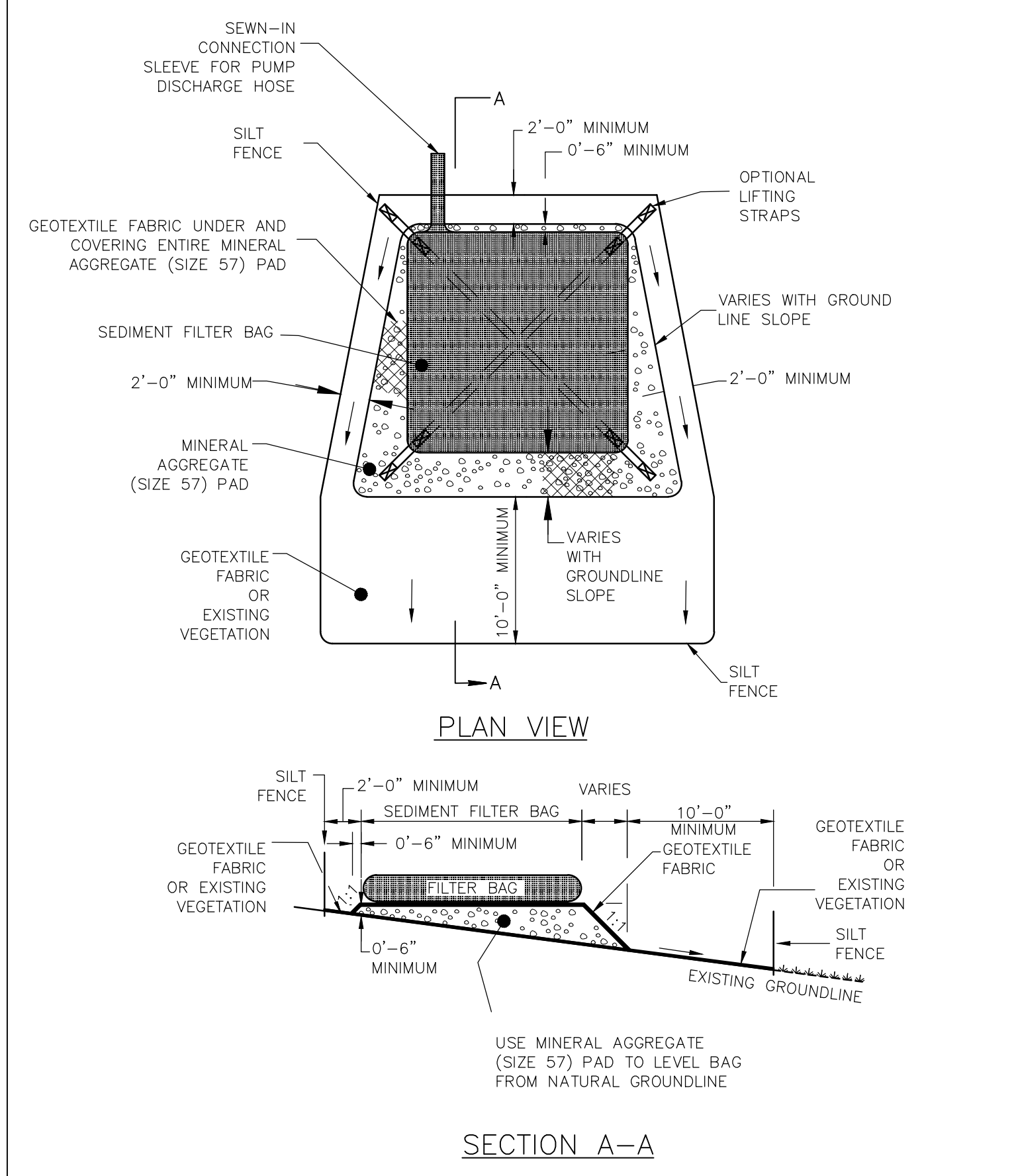
- NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
 2. SIGNAGE IDENTIFYING THE CONCRETE WASHOUT AREA SHALL BE INSTALLED WITHIN 5FT. OF THE WASHOUT FACILITY.
 3. THE CONTRACTOR SHALL COLLECT AND RETAIN ALL CONCRETE WASHOUT WATER AND SOLIDS IN LEAK-PROOF CONTAINERS SO THAT THIS MATERIAL DOES NOT REACH THE SOIL SURFACE AND SUBSEQUENTLY REACH SURFACE OR GROUND WATER. SEE SWPPP NARRATIVE SECTION 4.14 AND EPA GUIDANCE HERE: <https://www3.epa.gov/npdes/pubs/concretewashout.pdf>

CONCRETE WASHOUT
NOT TO SCALE



- NOTES:
1. LENGTH AND WIDTH OF POLYPROPYLENE FABRIC MUST EXCEED EXISTING CATCH BASIN FRAME DIMENSIONS BY A MINIMUM OF 8".
 2. REMOVE CATCH BASIN GRATE AND INSTALL POLYPROPYLENE FABRIC OVER CATCH BASIN FRAME. REPLACE CATCH BASIN GRATE TO SECURE POLYPROPYLENE FABRIC IN PLACE.
 3. CATCH BASIN EROSION CONTROL TO BE PLACED AT ALL CATCH BASINS WITHIN PROJECT LIMITS

CATCH BASIN EROSION CONTROL PROTECTION - SILT SACK
NOT TO SCALE



DEWATERING PRACTICES
NOT TO SCALE

PRELIMINARY
NOT FOR CONSTRUCTION

COMPANION DRAWINGS:

| SHEET NO. | TITLE |
|------------------------|---------------------------------------------|
| VW-OSP-LNA-XD-0001-001 | COVER SHEET |
| VW-OSP-LNA-XE-0004-001 | SEDIMENT AND EROSION CONTROL PLAN-PHASE I |
| VW-OSP-LNA-XE-0004-002 | SEDIMENT AND EROSION CONTROL PLAN-PHASE II |
| VW-OSP-LNA-XE-0004-003 | SEDIMENT AND EROSION CONTROL PLAN-PHASE III |
| VW-OSP-LNA-XE-0004-004 | SEDIMENT AND EROSION CONTROL PLAN-PHASE IV |
| VW-OSP-LNA-XE-0004-005 | SEDIMENT AND EROSION CONTROL PLAN-PHASE V |
| VW-OSP-LNA-XE-0004-006 | SEDIMENT AND EROSION CONTROL PLAN-PHASE VI |
| VW-OSP-LNA-XS-0004-001 | EROSION AND SEDIMENT CONTROL NOTES |
| VW-OSP-LNA-XS-0004-002 | EROSION AND SEDIMENT CONTROL DETAILS |

| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| C | 06/17/21 | ISSUED FOR REVIEW | IFA | MESA | WED | WED |

CONTRACTOR: **linxon**
AN ABB & SNC LAVALIN COMPANY
901 MAIN CAMPUS DRIVE (SUITE 210)
RALEIGH, NC 27606

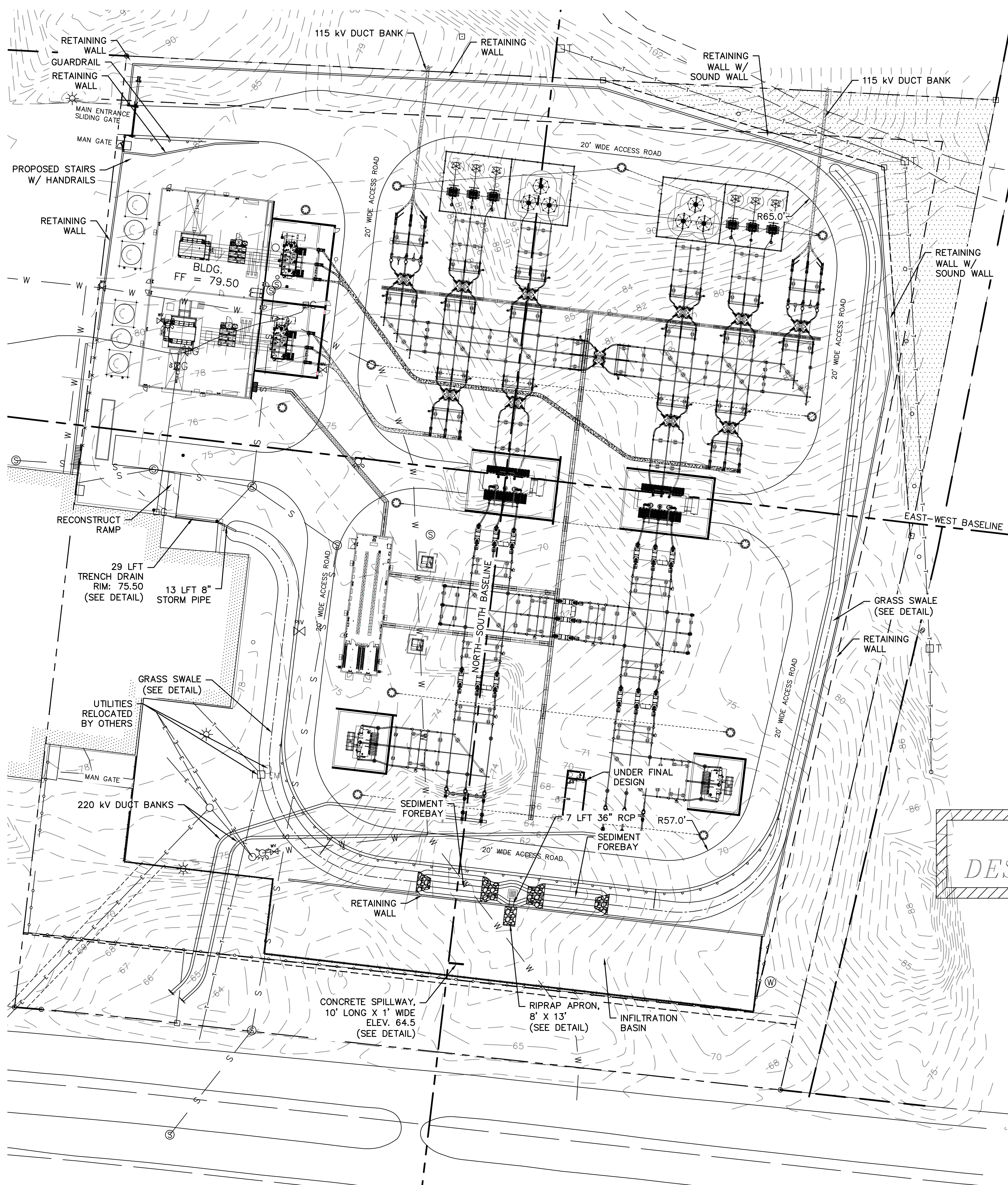
CLIENT: **VINEYARD WIND**
700 PLEASANT STREET, SUITE 510
NEW BEDFORD, MA. 02740

PROJECT: VINEYARD WIND OFFSHORE WIND PROJECT SUBSTATION

TITLE: EROSION AND SEDIMENT CONTROL DETAILS

DOC ID: VW-OSP-LNA-XS-0004

SHEET OF: 03 OF 03 DWG. NO SHEET: 003 SCALE: N.T.S. FORMAT/SIZE: ANSI D REV: C



GRADING NOTES:

- A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO ANY LAND DISTURBANCE.
- PROPER SOIL EROSION CONTROL MEASURES MUST BE IN PLACE DURING ALL PHASES OF CONSTRUCTION ACCORDING TO BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES GUIDELINES.
- STRUCTURAL FILL AND TESTING SHALL BE PER VINEYARD WIND CONSTRUCTION SPECIFICATION, SECTION 4.3.3 AND SECTION 5.3.
- THE CONTRACTOR SHALL HAVE AT ALL TIMES ON-SITE THE APPROVED CONSTRUCTION DRAWINGS AND JOB SITE INSPECTION LOG WITH ALL OTHER APPLICABLE PERMITS, SPECIFICATIONS, BOOKS, AND MANUALS.
- ALL SURFACE WATER AND BUILDING RUNOFF GENERATED BY THIS DEVELOPMENT SHALL BE DIRECTED TOWARD DRAINAGE DITCHES AND/OR INFILTRATION AREA. UNLESS CONVEYED BY A PROPOSED/APPROVED WATER COURSE, STORM WATER MAY NOT BE DIRECTED TOWARDS OR DISCHARGED ONTO ADJOINING LOTS TO CAUSE STANDING WATER, PROPERTY DAMAGE, OR CREATE AN UNSAFE HEALTH ISSUE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT ALL SWALES LEADING TO INFILTRATION AREAS.
- THE CONTRACTOR SHALL PERFORM ALL WORK ACCORDING TO LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH REGULATIONS. IN PARTICULAR, THE TRENCHING AND OPEN EXCAVATION OPERATIONS SHALL COMPLY WITH ALL CURRENT O.S.H.A. REGULATORY REQUIREMENTS.
- ELEVATIONS FOR TOPOGRAPHY ARE BASED ON VERTICAL SURVEY DATUM: NORTH AMERICAN VERTICAL DATUM 1988, NAVD88.
- ALL CONTOURS SHOWN ON THE PLAN ARE FINAL GRADE ELEVATIONS.
- CONTRACTOR SHALL PROVIDE THE SERVICES OF A LAND SURVEYOR REGISTERED IN THE STATE OF MASSACHUSETTS TO ESTABLISH NEW FENCE LOCATION, BENCHMARK, LOCATION OF APPURTENANCES AND ELEVATIONS.
- PRIOR TO STARTING WORK, VERIFY AND LOCATE ANY UNDERGROUND UTILITIES. CONTRACTOR SHALL STOP WORK IF UNDERGROUND OBJECTS ARE ENCOUNTERED DURING EXCAVATION.
- EXISTING UNDERGROUND AND OVERHEAD UTILITIES, PAVEMENT, STRUCTURES AND OTHER FEATURES DEPICTED ON THE DRAWINGS ARE SHOWN IN THE APPROXIMATE LOCATIONS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, IN THE FIELD, THE EXACT LOCATION OF THESE OR ANY OTHER EXISTING FEATURES IN OR ADJACENT TO THE PROJECT LIMITS.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES THAT OCCUR DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- CONTRACTOR SHALL RESTRICT HIS CONSTRUCTION OPERATIONS WITHIN THE LIMITS OF THE SUBJECT PROPERTY AND ADJACENT RIGHT-OF-WAYS INDICATED ON THE DRAWINGS AND SHALL USE DUE CARE IN PLACING MATERIALS AND EQUIPMENT SO AS TO CAUSE THE LEAST POSSIBLE DISTURBANCE TO PROPERTY AND INTERFERENCE WITH TRAFFIC.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY IN ACCORDANCE WITH ALL APPLICABLE OSHA STANDARDS.
- TOP SOIL, INCLUDING GRASS, SHALL BE REMOVED IN THE AREAS WHICH ARE TO BE GRADED. AFTER TOP SOIL REMOVAL, THE AREA SHALL BE GRADED AS NECESSARY TO ACHIEVE FINAL ELEVATIONS SHOWN ON THIS DRAWING. YARD SURFACE SHALL CONSIST OF DOUBLE WASHED 3/4\"/>

GENERAL NOTES:

- THE FINAL YARD SURFACE SHALL CONSIST OF 6 INCH LAYER OF CRUSHED STONE, UNLESS NOTED OTHERWISE ON THE PLANS. THE STONE SHALL CONFORM TO ASTM C33, WASHED STONE, GRADATION 1 INCH TO NO. 8 PARTICLES, WITH NO FINES.
- ACCESS ROADS SHALL BE FINISHED WITH A 8-INCH-THICK MINIMUM CRUSHED STONE AGGREGATE BASE, THAT MEETS MASSACHUSETTS DEPARTMENT OF TRANSPORTATION REQUIREMENTS.
- GRASS SEED MIX SHALL BE A MIX OF RED FESCUE (10 LBS PER ACRE OR 0.25 LBS PER 1,000 SQ FT), CANADA BLUEGRASS (10 LBS PER ACRE OR 0.25 LBS PER 1,000 SQ FT), PERENNIAL RYEGRASS (10 LBS PER ACRE OR 0.25 LBS PER 1,000 SQ FT). ANY AREA RE-VEGETATED SHALL BE MONITORED CONTINUOUSLY UNTIL IT HAS RE-ESTABLISHED.
- THE SIDE SLOPES AND BOTTOM OF SWALES SHALL INCORPORATE EROSION CONTROL BLANKETS. THE EROSION CONTROL BLANKETS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. THE EROSION CONTROL BLANKETS SHALL REMAIN IN PLACE UNTIL THEY DECOMPOSE.
- SEDIMENT FOREBAY SIZING BASED ON SPECIFICATIONS OUTLINED IN THE MASSACHUSETTS STORMWATER HANDBOOK. THE SEDIMENT FOREBAYS ARE SIZED BY USING 0.1 INCH OF RAINFALL PER ACRE OF IMPERVIOUS AREA WITHIN THE FOREBAY DRAINAGE AREA.
- NORTH ARROW AND BEARINGS BASED ON NAD 83 PER GPS READINGS BY BL COMPANIES IN JULY 2019 UTILIZING MACORS RTCM3.
- ELEVATIONS AND CONTOURS ARE BASED ON NAVD88 PER GPS READINGS BY BL COMPANIES JULY 2019 UTILIZING MACORS RTCM3.
- EXISTING SANITARY SEWER AS-BUILT LOCATION PROVIDED BY LAWRENCE-LYNCH CORPORATION IN JULY 2021

UTILITY CONSIDERATIONS:

- THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PROJECT PLANS SHALL BE CONSIDERED APPROXIMATE. PRIOR TO THE START OF ANY WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY COMPANIES AND VERIFY THE ACTUAL LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN ON THE PROJECT PLANS. CONTACT DIG SAFE AT 1-888-344-7233 (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATING.
- COORDINATE UTILITY INTERRUPTIONS IN ACCORDANCE WITH THE UTILITY OWNER REQUIREMENTS. INTERRUPTIONS OF UTILITIES SERVING FACILITIES SURROUNDING THE SITE SHALL BE HELD TO A MINIMUM.
- THE CONTRACTOR SHALL USE SHORING, SHEETING, AND LAYBACK FOR ALL CONSTRUCTION, TO ASSURE NOT TO UNDERMINE ANY EXISTING PAVEMENT, UTILITIES AND STRUCTURES THAT ARE NOT CALLED OUT TO BE DEMOLISHED.
- ALL TRENCHES SHALL BE EXCAVATED AND MAINTAINED TO MEET OSHA 29 CFR PART 1926 SUBPART P-EXCAVATIONS CRITERIA FOR SLOPES OR SHORING AND AS DETAILED AND NOTED HEREWITH. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION. SHORING AND PROTECTION SHALL MEET OSHA REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF THE LOCATION AND ELEVATION OF EXISTING UTILITIES. ALL EXCAVATION AND ASSOCIATED UNDERGROUND CONSTRUCTION WORK MUST BE AUTHORIZED BY THE OWNER AND UTILITY CUSTODIAN PRIOR TO COMMENCEMENT OF EXCAVATION.
- CONTRACTOR SHALL COMPLY WITH LOCAL UTILITY REGULATIONS AND STANDARDS PERTAINING TO THE INSTALLATION OF UNDERGROUND UTILITIES.

INFILTRATION BASIN NOTES:

- THE CONTRACTOR IS CAUTIONED THAT THE DRAINAGE BASIN IS DESIGNED TO INFILTRATE STORMWATER PRIMARILY THROUGH THE BOTTOM AND SIDES OF THE BASIN. CONSTRUCTION TECHNIQUES THAT WOULD POTENTIALLY DIMINISH THE INFILTRATION CAPACITY OF THE UNDERLYING SOILS ARE TO BE AVOIDED. COMPACTION AND SILTATION OF THE BASIN DURING CONSTRUCTION IS PROHIBITED.
- DO NOT USE ANY PORTION OF THE BASIN FLOOR AS A STORAGE AREA FOR MATERIAL AND HEAVY EQUIPMENT.
- DO NOT COMPACT SOILS IN THE BASIN FLOOR.
- DO NOT PLACE GRAVEL OR OTHER MATERIALS TO STABILIZE THE BASIN FLOOR FOR CONSTRUCTION VEHICULAR TRAFFIC.
- BASIN CONSTRUCTION SHALL OCCUR AT THE EARLY STAGES OF THE PROJECT CONSTRUCTION SO THAT THEY ARE FULLY VEGETATED AND STABILIZED PRIOR TO RECEIVING STORMWATER.
- DO NOT USE THE INFILTRATION BASIN AS A TEMPORARY SEDIMENT BASIN OR A DE-WATERING BASIN WITHOUT PRIOR APPROVAL OF ENGINEER. IF USED AS A TEMPORARY STORMWATER BASIN DURING CONSTRUCTION, THE BASIN SHALL BE EXCAVATED TO A DEPTH AND ELEVATION THAT ARE 1-FOOT (MINIMUM) ABOVE PROPOSED FINISHED GRADE; AND PRIOR TO COMPLETION, BASIN SHALL BE CLEANED OF ALL SEDIMENT AND DEBRIS, THEN EXCAVATED TO FINISHED GRADES.
- USE LIGHT WEIGHT EARTH-MOVING EQUIPMENT TO EXCAVATE THE INFILTRATION BASIN BECAUSE HEAVY CONSTRUCTION EQUIPMENT COMPACTS THE SOILS.
- DEEPLY TILL THE BASIN FLOOR WITH A ROTARY TILLER OR A DISC HARROW TO A DEPTH OF 12 INCHES TO RESTORE INFILTRATION RATES AFTER GRADING.
- STORMWATER INFILTRATION BASIN SHALL HAVE DOUBLE WASHED CRUSHED STONE (3/4\"/>

75%
DESIGN REVIEW
PRELIMINARY
NOT FOR
CONSTRUCTION

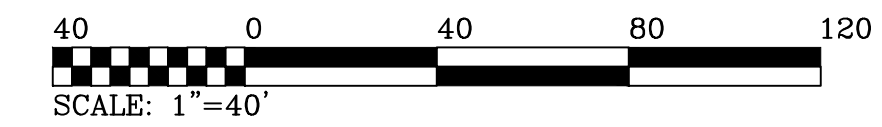
COMPANION DRAWINGS:

- VW-OSP-LNA-XE-0003-001 FENCE AND RETAINING WALL PLAN
- VW-OSP-LNA-XE-0003-002 RETAINING WALL PROFILE
- VW-OSP-LNA-XS-0001-001 GRADING PLAN SECTIONS AND DETAILS
- VW-OSP-LNA-XS-0002-001 DRAINAGE DETAILS

GENERAL LEGEND

| | | | |
|--|-------------------------------|--|----------------------------------------------|
| | EXISTING GRADE MAJOR CONTOUR | | DISTRIBUTION/TRANSMISSION/COMMUNICATION POLE |
| | EXISTING GRADE MINOR CONTOUR | | EXISTING IRON PIN |
| | FINISHED GRADE MAJOR CONTOUR | | MAGNETIC PK NAIL |
| | FINISHED GRADE MINOR CONTOUR | | UNDERGROUND WATER LINE |
| | EXISTING UNDERGROUND ELECTRIC | | WATER VALVE |
| | PROPOSED CHAINLINK FENCE | | PIV VALVE |
| | EROSION CONTROL/SILT FENCE | | LIGHT POLE |
| | LIMITS OF CONSTRUCTION | | FIRE HYDRANT |
| | PROPERTY LINE | | LIGHTNING MAST |
| | ROAD/SWALE CENTERLINE | | SANITARY SEWER MANHOLE |
| | UNDERGROUND TELEPHONE | | GAS VALVE |
| | OVERHEAD ELECTRIC LINES | | GAS METER |
| | SANITARY SEWER LINE | | ELECTRICAL MANHOLE |
| | PROPOSED GUARDRAIL | | MONITORING WELL |

GRADING PLAN
SCALE: 1" = 40'



| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| E | 08/16/21 | 75% DESIGN REVIEW | IFR | MESA | WED | WED |
| D | 07/30/21 | 75% DESIGN REVIEW | IFR | MESA | WED | WED |
| C | 07/02/21 | 50% DESIGN REVIEW | IFR | MESA | WED | WED |
| B | 08/15/19 | 30% DESIGN REVIEW | IFR | MESA | WED | WED |
| A | 08/07/19 | 30% DESIGN REVIEW | IFR | MESA | WED | WED |

CONTRACTOR

 AN ABS & S&C LAMAR COMPANY
 901 MAIN CAMPUS DRIVE (SUITE 210)
 RALEIGH, NC 27606

CLIENT

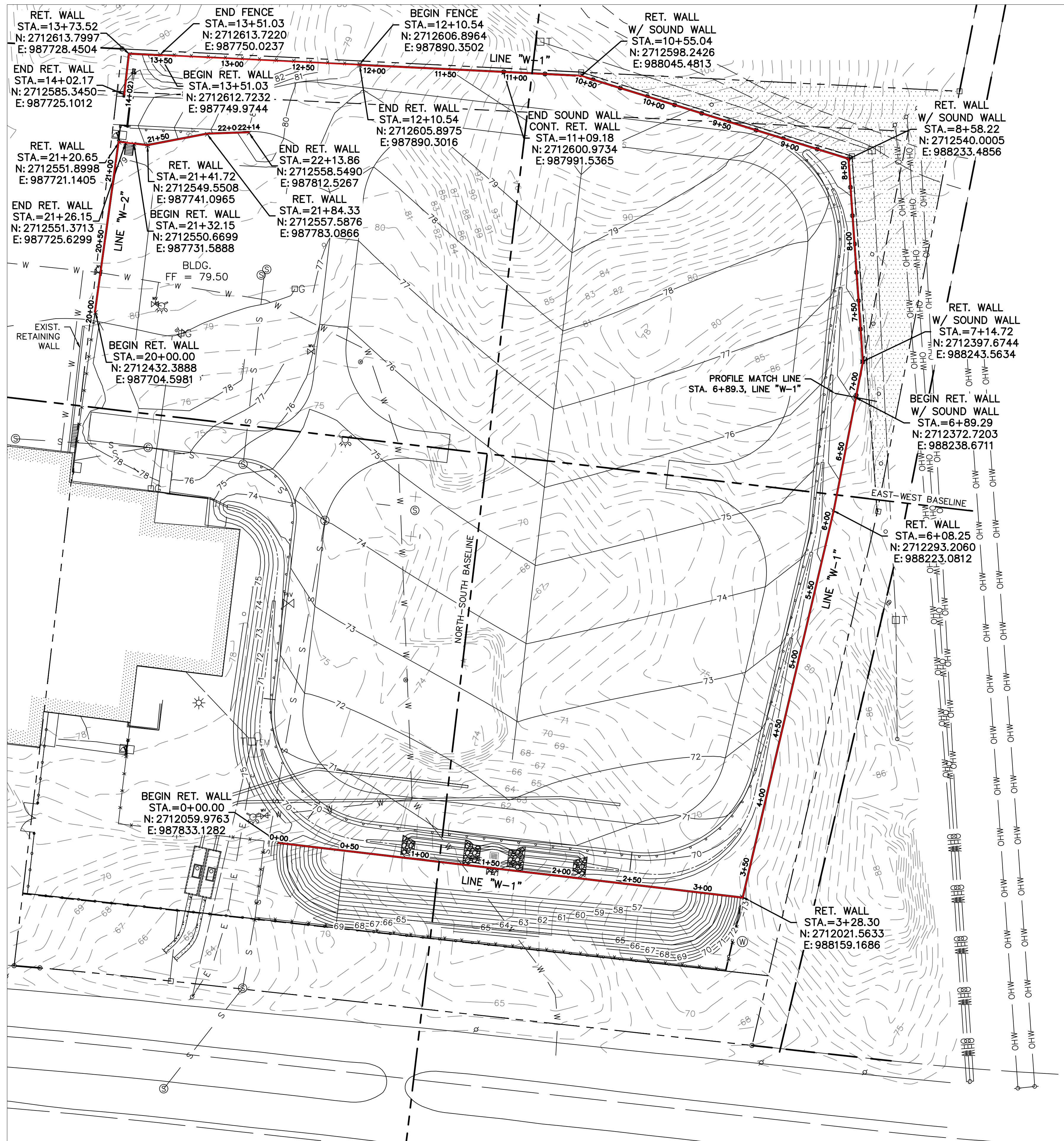
 700 PLEASANT STREET, SUITE 510
 NEW BEDFORD, MA. 02740

PROJECT
 VINEYARD WIND OFFSHORE WIND
 PROJECT SUBSTATION

TITLE:
 220/115kV SUBSTATION
 GRADING PLAN

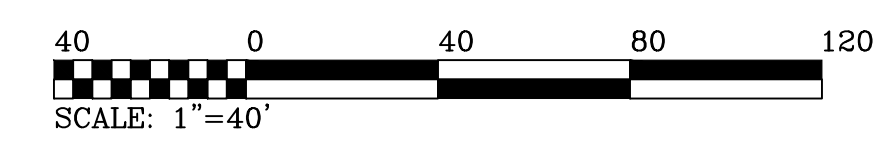
DOC ID:
 VW-OSP-LNA-XE-0001-001

| SHEET | OF | DWG. NO. | SCALE | FORMAT/SIZE | REV |
|-------|----|-----------|----------|-------------|-----|
| 01 | 01 | SHEET-001 | 1" = 40' | ANSI D | E |



COMPANION DRAWINGS:
 VW-OSP-LNA-XE-0001-001
 VW-OSP-LNA-XE-0003-002
 VW-OSP-LNA-XS-0001-001
 VW-OSP-LNA-XS-0002-001

GRADING PLAN
 RETAINING WALL PROFILE
 GRADING PLAN SECTIONS AND DETAILS
 DRAINAGE DETAILS



75%
 DESIGN REVIEW
 PRELIMINARY
 NOT FOR
 CONSTRUCTION

| GENERAL LEGEND | |
|----------------|----------------------------------------------|
| | EXISTING GRADE MAJOR CONTOUR |
| | EXISTING GRADE MINOR CONTOUR |
| | FINISHED GRADE MAJOR CONTOUR |
| | FINISHED GRADE MINOR CONTOUR |
| | EXISTING UNDERGROUND ELECTRIC |
| | PROPOSED CHAINLINK FENCE |
| | EROSION CONTROL/SILT FENCE |
| | LIMITS OF CONSTRUCTION |
| | PROPERTY LINE |
| | ROAD/SWALE CENTERLINE |
| | UNDERGROUND TELEPHONE |
| | OVERHEAD ELECTRIC LINES |
| | SANITARY SEWER LINE |
| | PROPOSED GUARDRAIL |
| | DISTRIBUTION/TRANSMISSION/COMMUNICATION POLE |
| | EXISTING IRON PIN |
| | MAGNETIC PK NAIL |
| | UNDERGROUND WATER LINE |
| | WATER VALVE |
| | PSV VALVE |
| | LIGHT POLE |
| | FIRE HYDRANT |
| | LIGHTNING MAST |
| | SANITARY SEWER MANHOLE |
| | GAS VALVE |
| | GAS METER |
| | ELECTRICAL MANHOLE |
| | MONITORING WELL |

RETAINING WALL PLAN
 SCALE: 1" = 40'

| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| C | 08/16/21 | 75% DESIGN REVIEW | IFR | MESA | WED | WED |
| B | 07/30/21 | 75% DESIGN REVIEW | IFR | MESA | WED | WED |
| A | 07/02/21 | 50% DESIGN REVIEW | IFR | MESA | WED | WED |

CONTRACTOR

 AN ABB & SNC LAVALETTE COMPANY
 901 MAIN CAMPUS DRIVE (SUITE 210)
 RALEIGH, NC 27606

CLIENT

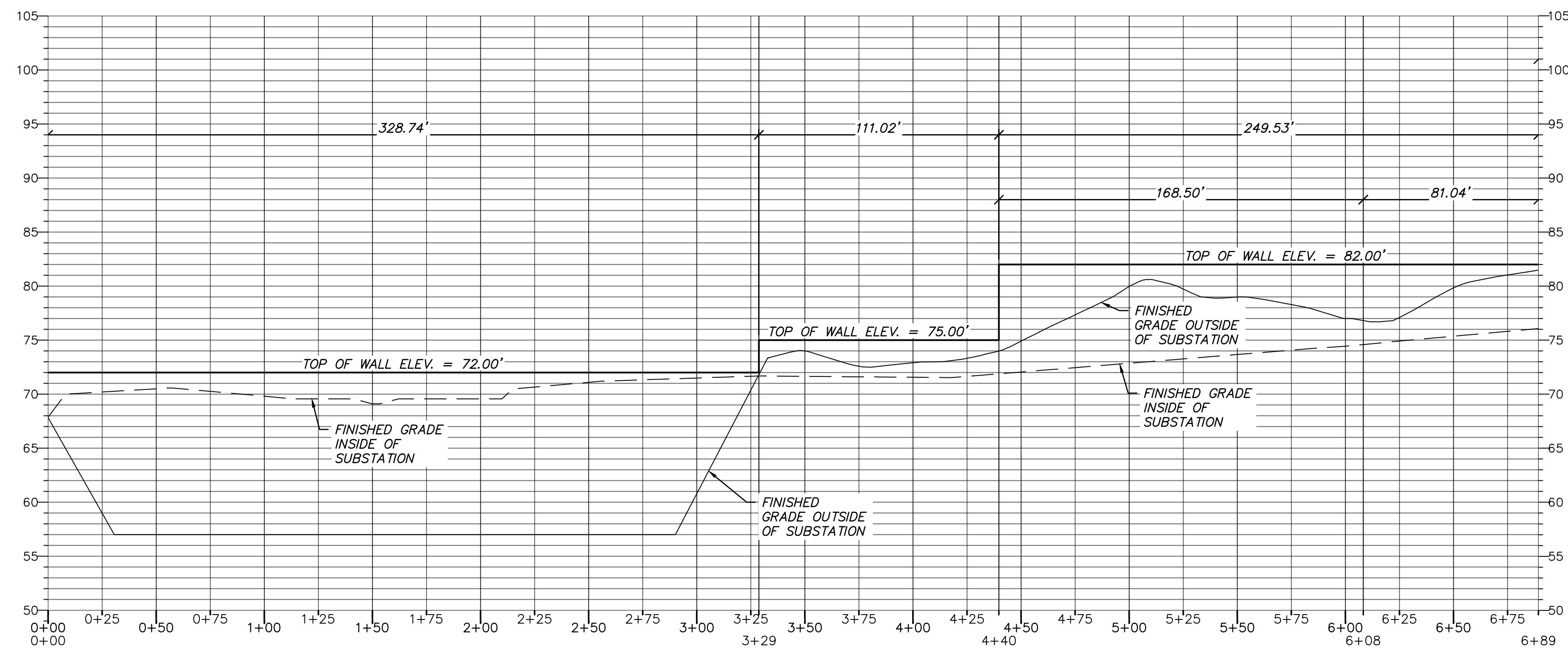
 700 PLEASANT STREET, SUITE 510
 NEW BEDFORD, MA. 02740

PROJECT
 VINEYARD WIND OFFSHORE WIND
 PROJECT SUBSTATION

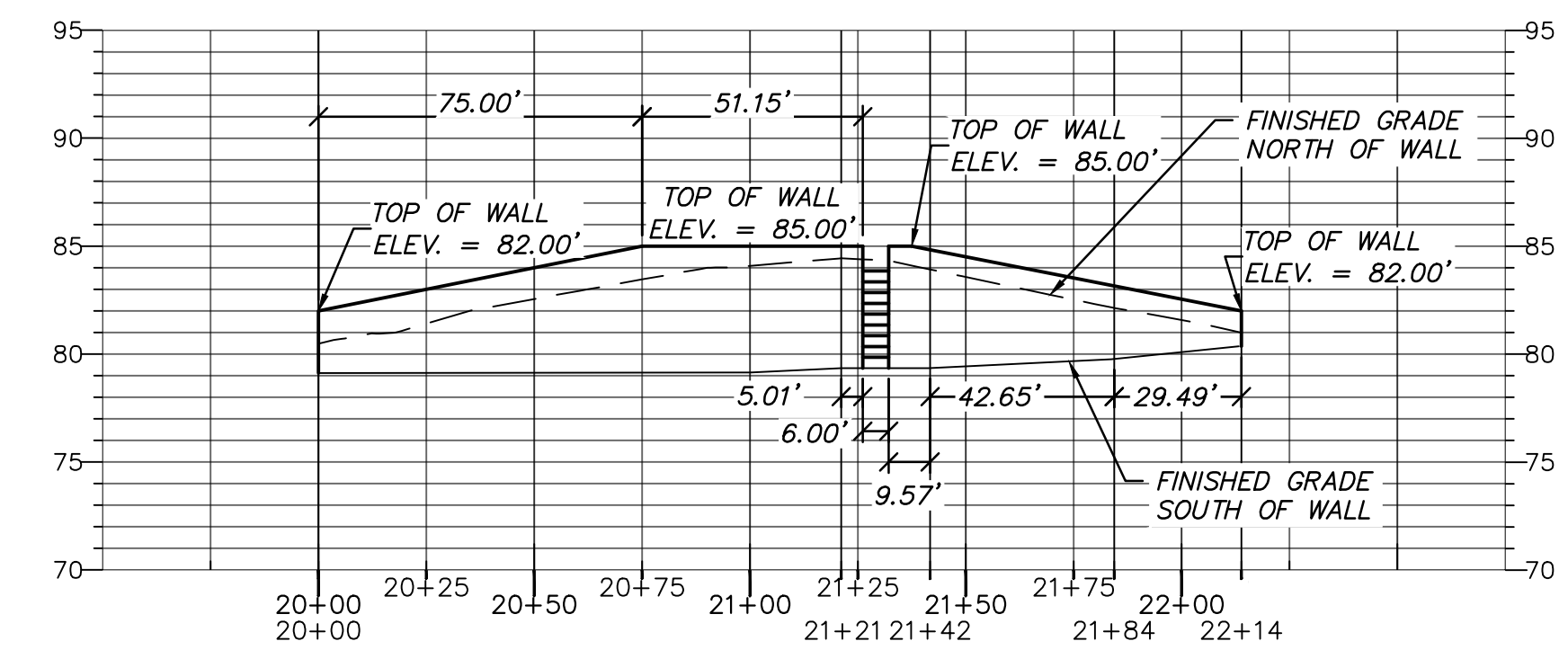
TITLE:
 220/115kV SUBSTATION
 FENCE AND RETAINING WALL PLAN

DOC ID:
 VW-OSP-LNA-XE-0003-001

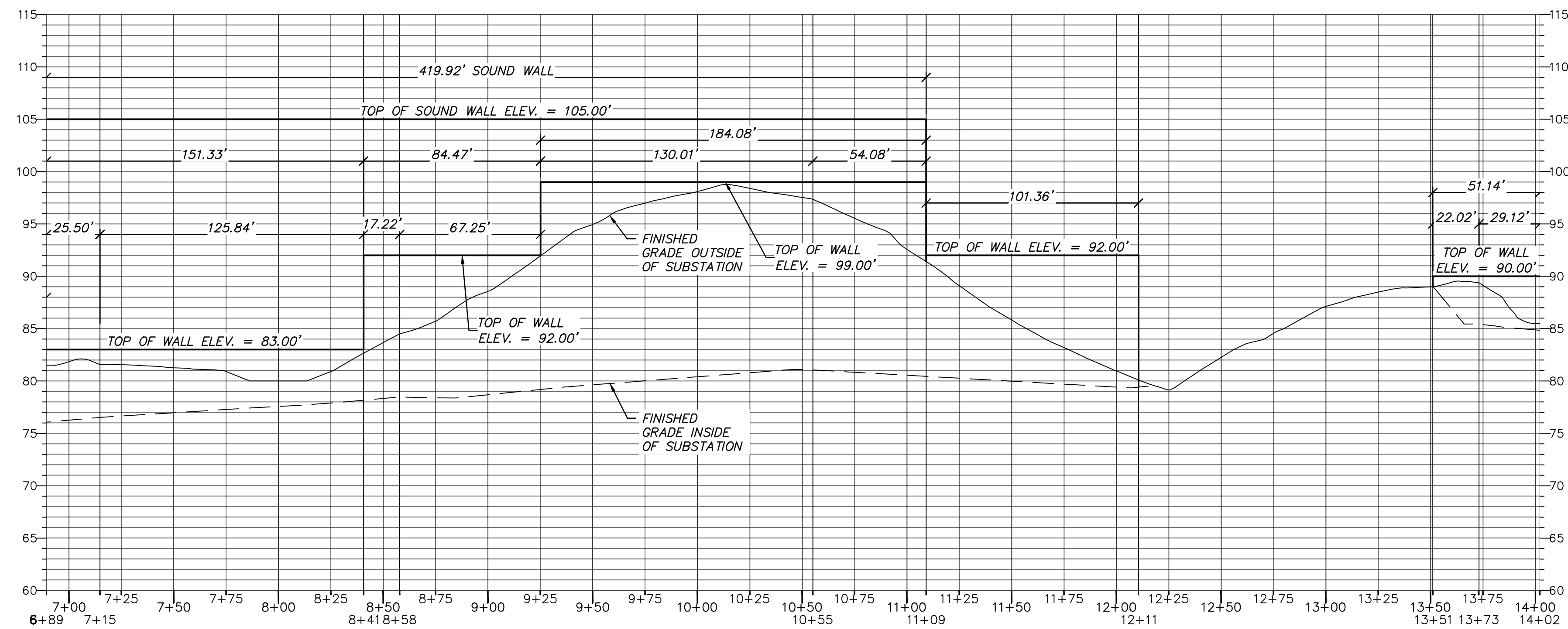
| SHEET | DWG. NO. | SCALE | FORMAT/SIZE | REV. |
|-------|-----------|--------|-------------|------|
| 01 | | | | |
| 02 | SHEET-001 | 1"=40' | ANSI D | B |



RETAINING WALL PROFILE
 LINE "W-1" STA. 0+00 TO STA. 6+89
 SCALE: 1" = 40' (HORIZ.)
 1" = 8' (VERT.)



RETAINING WALL PROFILE
 LINE "W-2" STA. 20+00 TO STA. 22+14
 SCALE: 1" = 40' (HORIZ.)
 1" = 8' (VERT.)

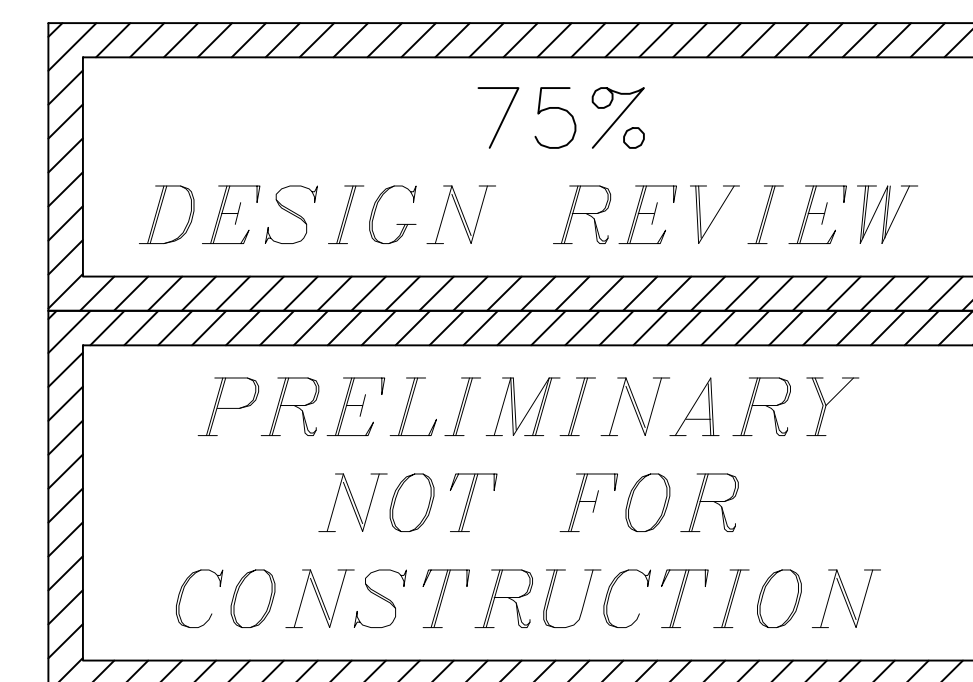


RETAINING WALL PROFILE
 LINE "W-1" STA. 6+89 TO STA. 14+02
 SCALE: 1" = 40' (HORIZ.)
 1" = 8' (VERT.)

COMPANION DRAWINGS:

- VW-OSP-LNA-XE-0001-001
- VW-OSP-LNA-XE-0003-001
- VW-OSP-LNA-XS-0001-001
- VW-OSP-LNA-XS-0002-001

- GRADING PLAN
- FENCE AND RETAINING WALL PLAN
- GRADING PLAN SECTIONS AND DETAILS
- DRAINAGE DETAILS



| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| C | 08/16/21 | 75% DESIGN REVIEW | IFR | MESA | WED | WED |
| B | 07/30/21 | 75% DESIGN REVIEW | IFR | MESA | WED | WED |
| A | 07/02/21 | 50% DESIGN REVIEW | IFR | MESA | WED | WED |

CONTRACTOR
linxon
 AN ABB & SNC LAVALIN COMPANY
 901 MAIN CAMPUS DRIVE (SUITE 210)
 RALEIGH, NC 27606

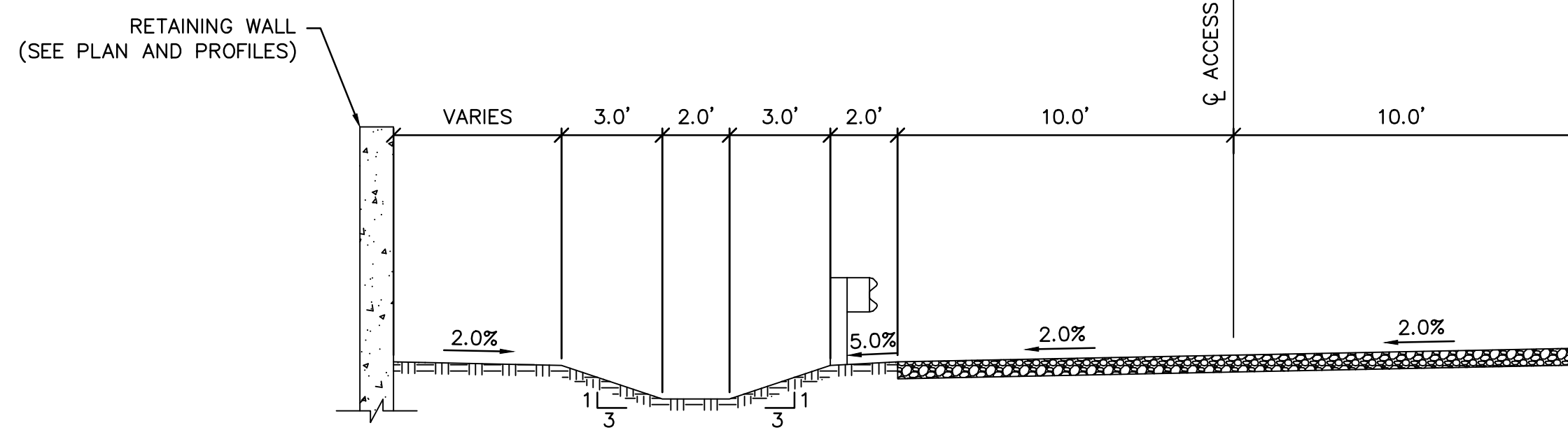
CLIENT
VINEYARD WIND
 700 PLEASANT STREET, SUITE 510
 NEW BEDFORD, MA. 02740

PROJECT
 VINEYARD WIND OFFSHORE WIND
 PROJECT SUBSTATION

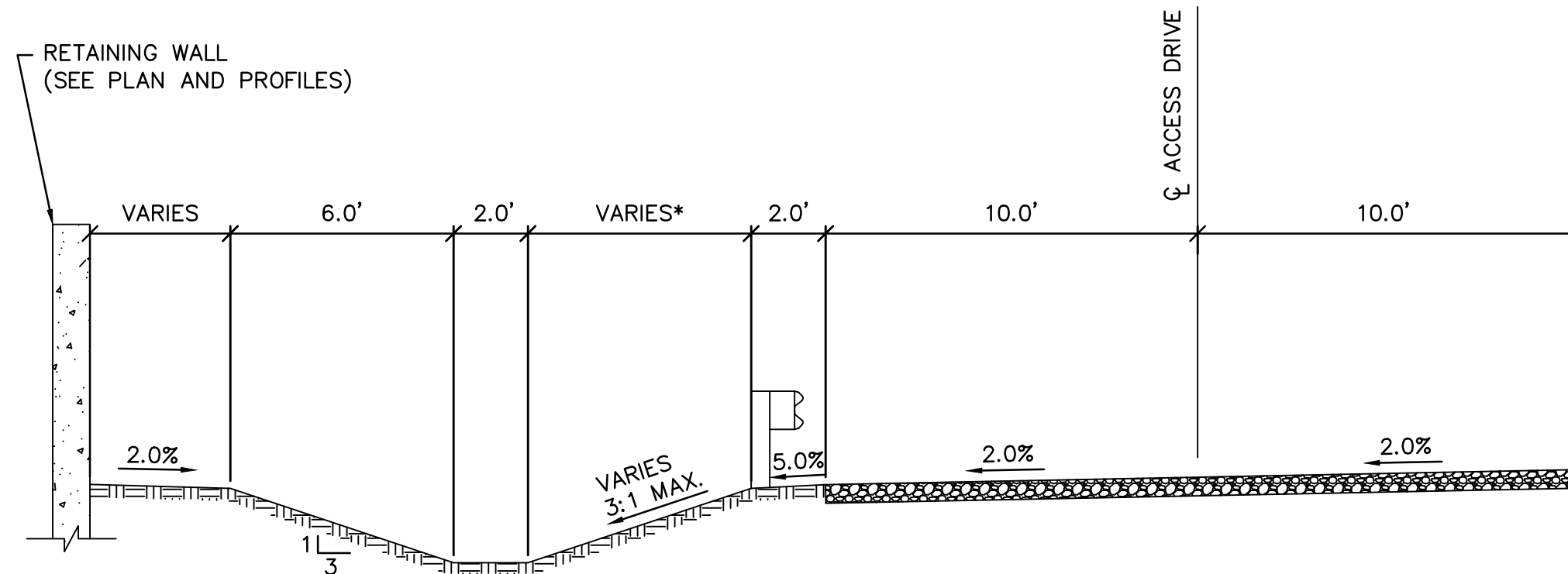
TITLE:
 220/115kV SUBSTATION
 RETAINING WALL PROFILE

DOC ID:
 VW-OSP-LNA-XE-0003-002

| SHEET OF | DWG. NO | SCALE | FORMAT/SIZE | REV |
|----------|-----------|----------|-------------|-----|
| 02 | SHEET-002 | AS SHOWN | ANSI D | B |

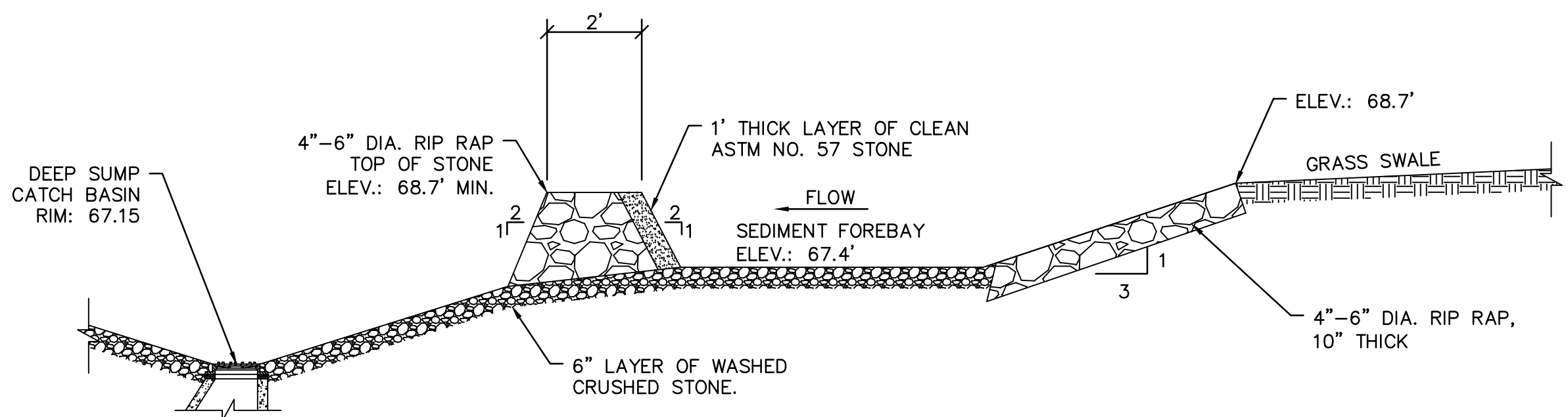


TYPICAL SECTION ACCESS DRIVE & SWALE
 STA. 4+82.2 TO STA. 9+12.4
 SCALE: 1" = 4'



TYPICAL SECTION ACCESS DRIVE & SWALE
 STA. 9+12.4 TO STA. 10+43.81
 STA. 11+68.3 TO STA. 13+90.6
 SCALE: 1" = 4'

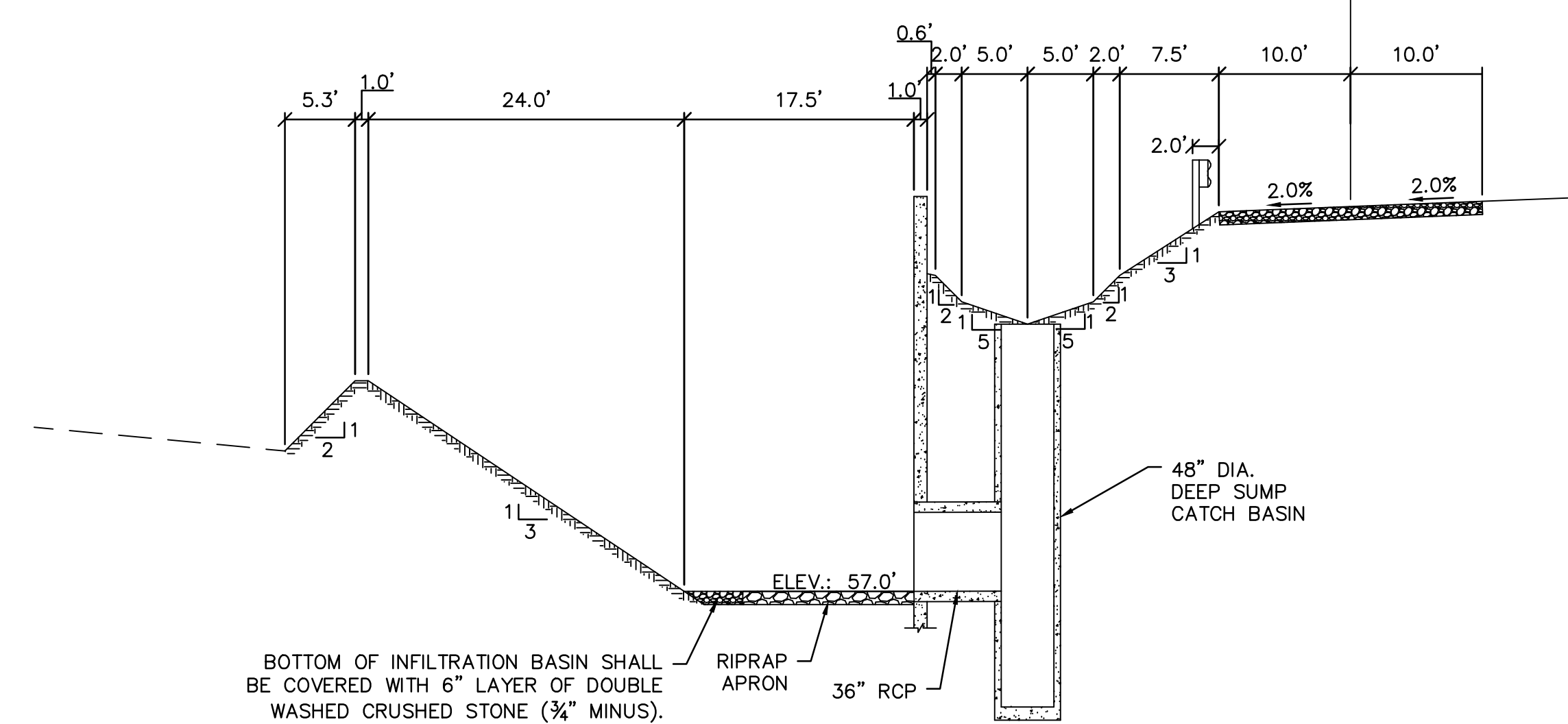
*WIDTH VARIES AS FOLLOWS:
 FROM 3.0' @ STA. 9+12.4 TO 13.5' @ STA. 9+76.2
 FROM 13.5' @ STA. 9+76.2 TO 11.0' @ STA. 10+10.0
 11.0' FROM STA. 10+10.0 TO STA. 10+43.9
 11.0' FROM STA. 11+68.3 TO STA. 11+94.7
 FROM 11.0' @ STA. 11+94.7 TO 12.5' @ STA. 12+28.4
 FROM 12.5' @ STA. 12+28.4 TO 6.0' @ STA. 13+00.0
 6.0' FROM STA. 13+00.0 TO STA. 13+90.6



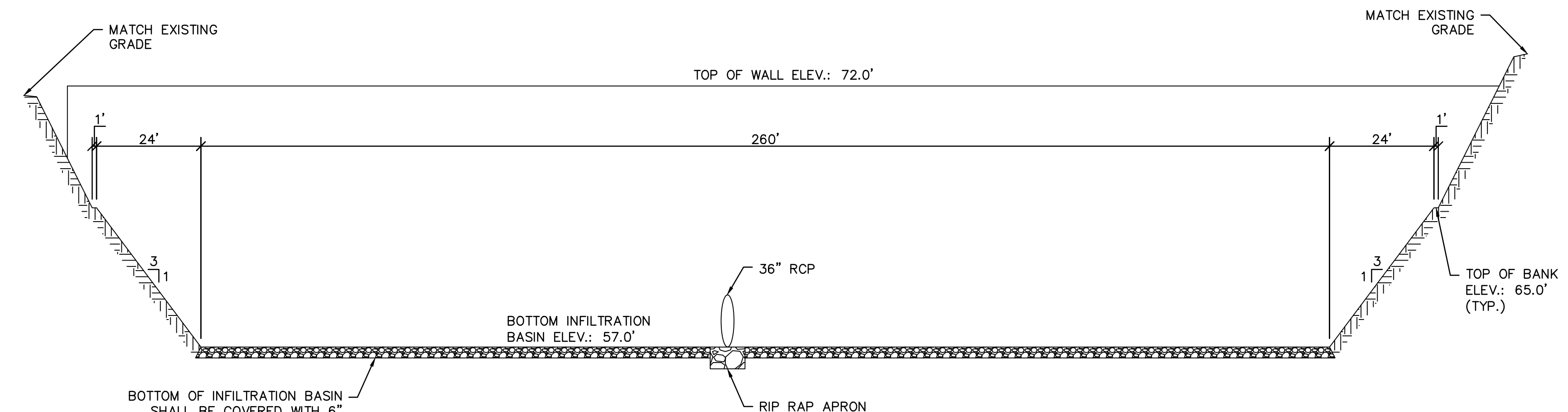
SEDIMENT FOREBAY DETAIL
 NOT TO SCALE

- NOTES:
- SIDE SLOPES SHALL BE STABILIZED WITH LOAM, GRASS SEED, AND EROSION CONTROL BLANKETS.

COMPANION DRAWINGS:
 VW-OSP-LNA-XE-0001-001 GRADING PLAN
 VW-OSP-LNA-XE-0003-001 FENCE AND RETAINING WALL PLAN
 VW-OSP-LNA-XE-0003-002 RETAINING WALL PROFILE
 VW-OSP-LNA-XS-0002-001 DRAINAGE DETAILS



SECTION VIEW INFILTRATION BASIN/SUBSTATION
 STA. 11+06
 SCALE: 1" = 10' (HORIZ.)
 1" = 5' (VERT.)



LONGITUDINAL SECTION VIEW INFILTRATION BASIN
 SCALE: 1" = 20' (HORIZ.)
 1" = 5' (VERT.)

75%
 DESIGN REVIEW
 PRELIMINARY
 NOT FOR
 CONSTRUCTION

| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| B | 08/16/21 | 75% DESIGN REVIEW | IFR | MESA | WED | WED |
| A | 07/30/21 | 75% DESIGN REVIEW | IFR | MESA | WED | WED |

CONTRACTOR
linxon
 AN ABB & SNC LAVALIN COMPANY
 901 MAIN CAMPUS DRIVE (SUITE 210)
 RALEIGH, NC 27606

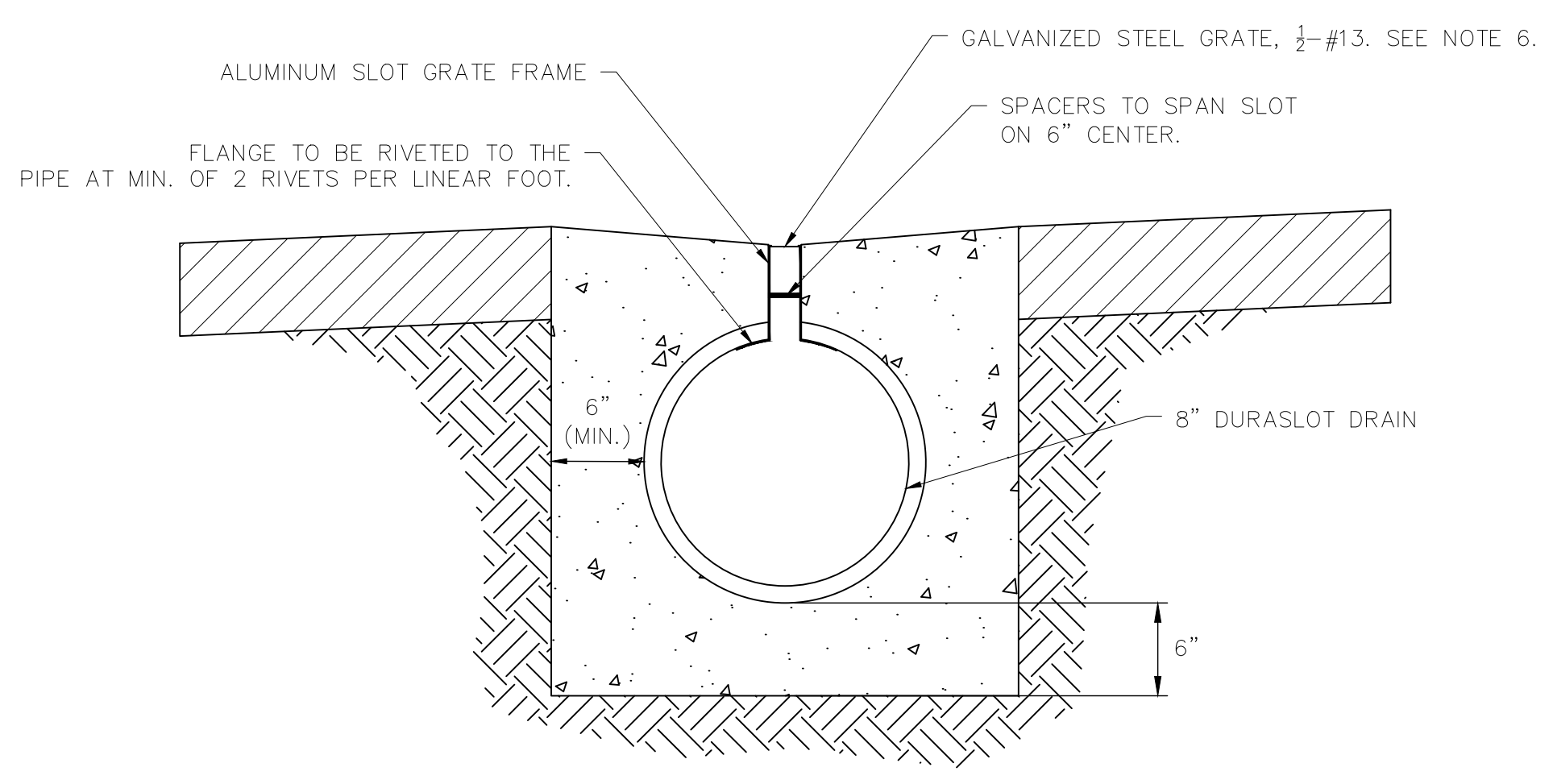
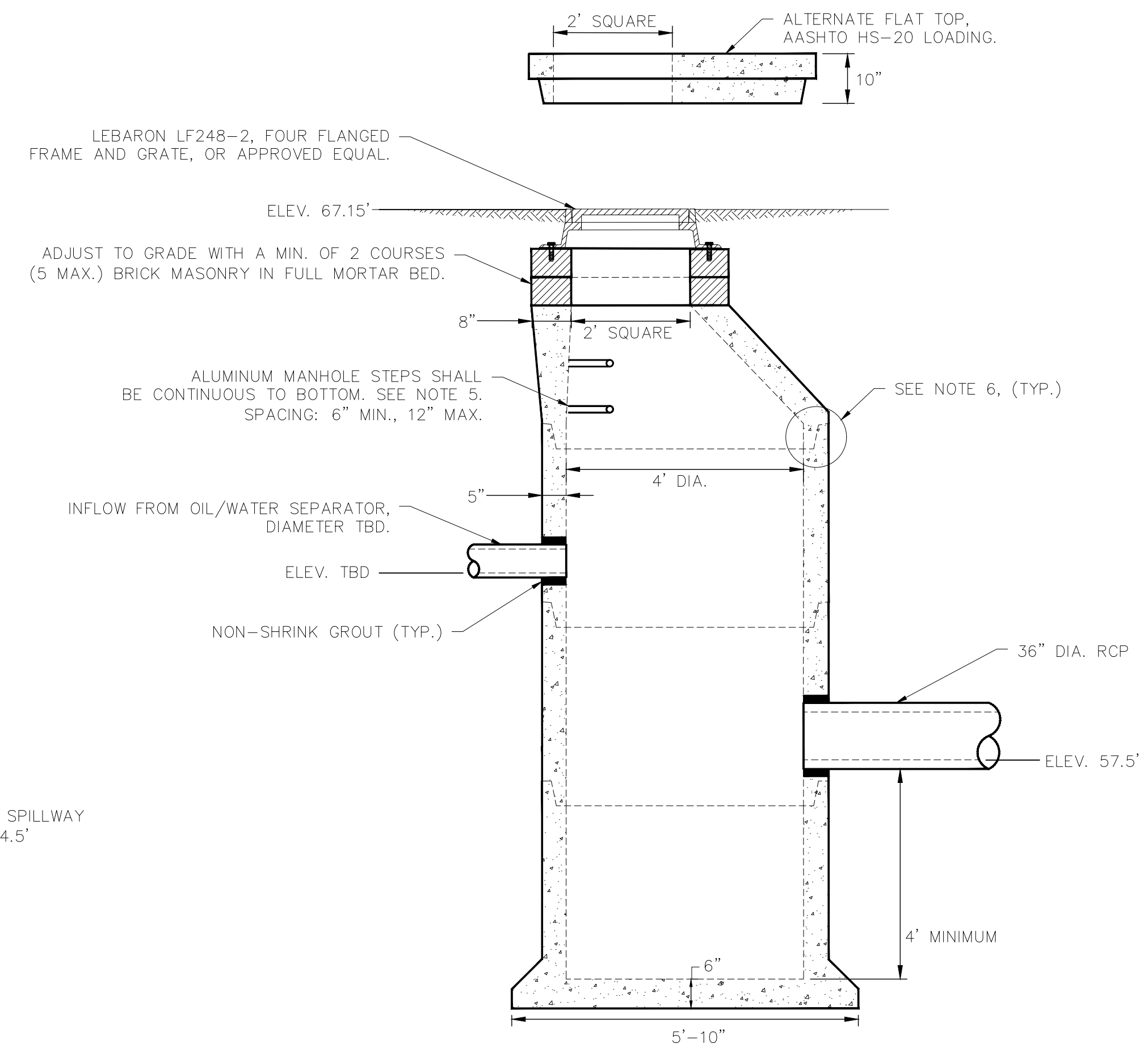
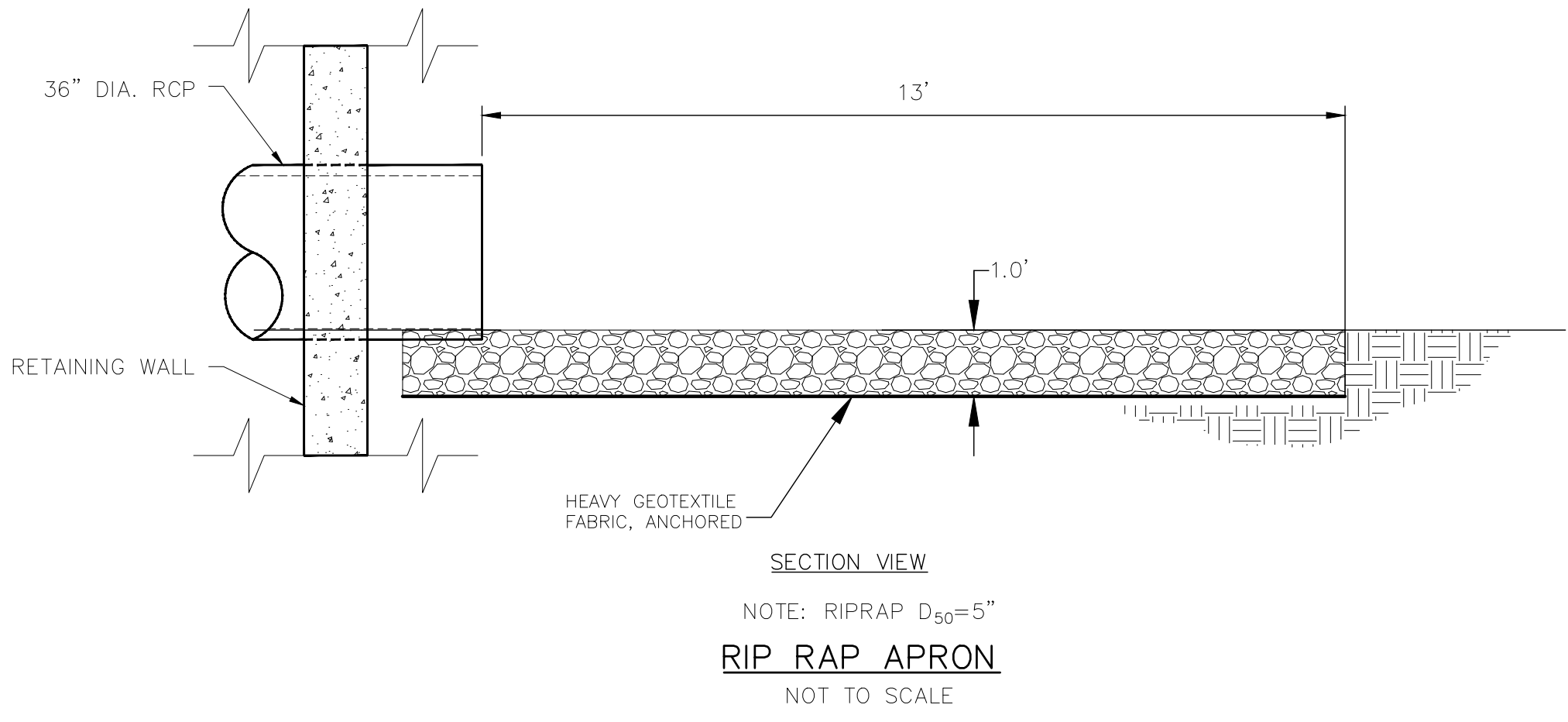
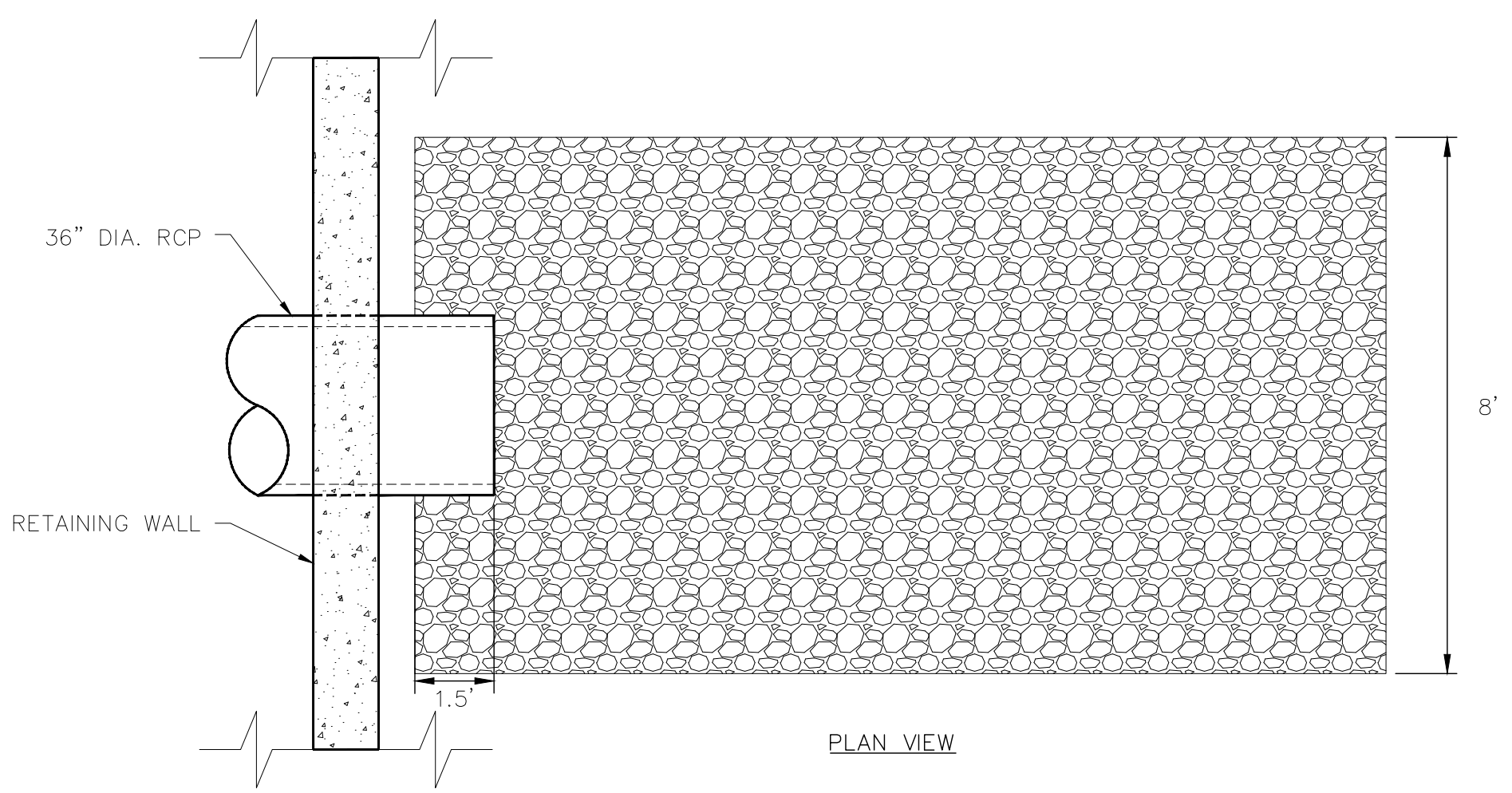
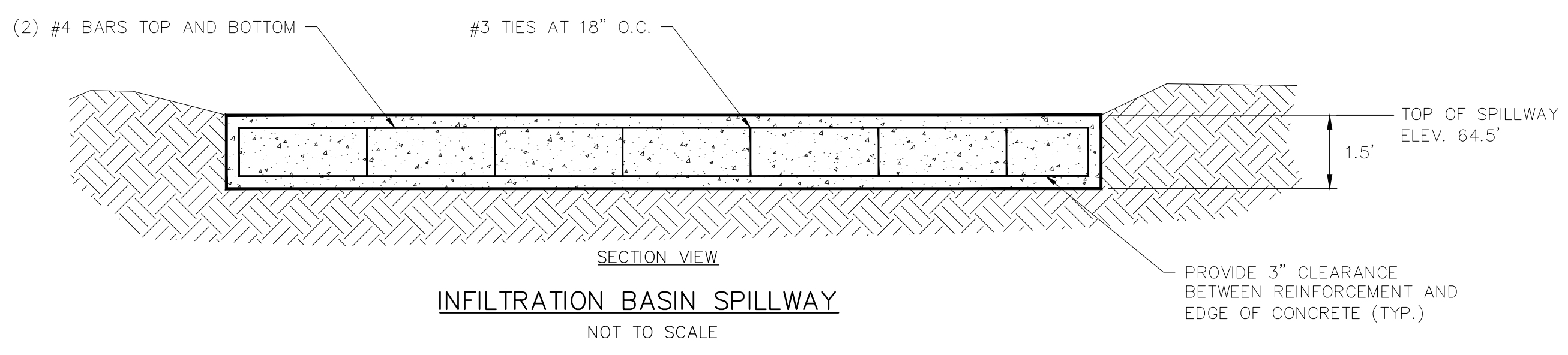
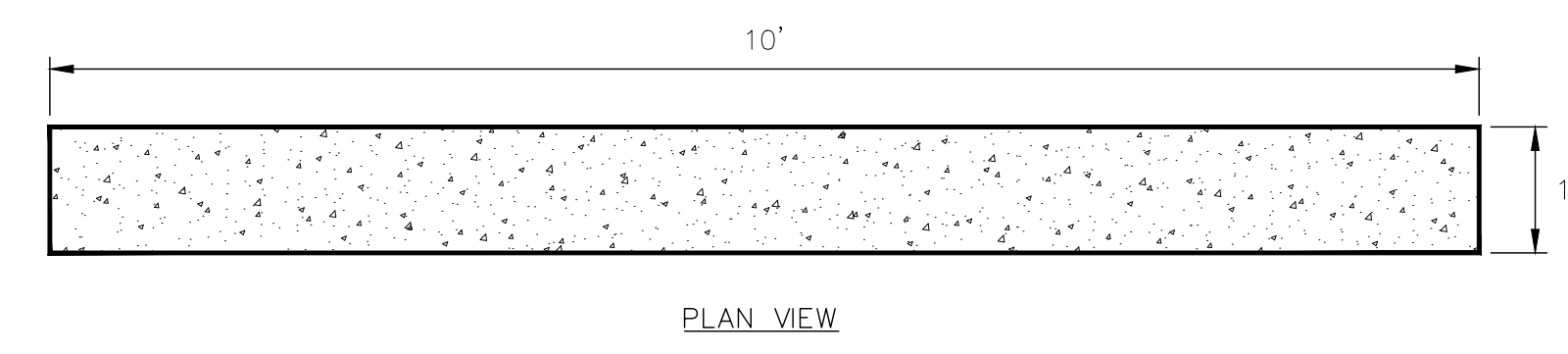
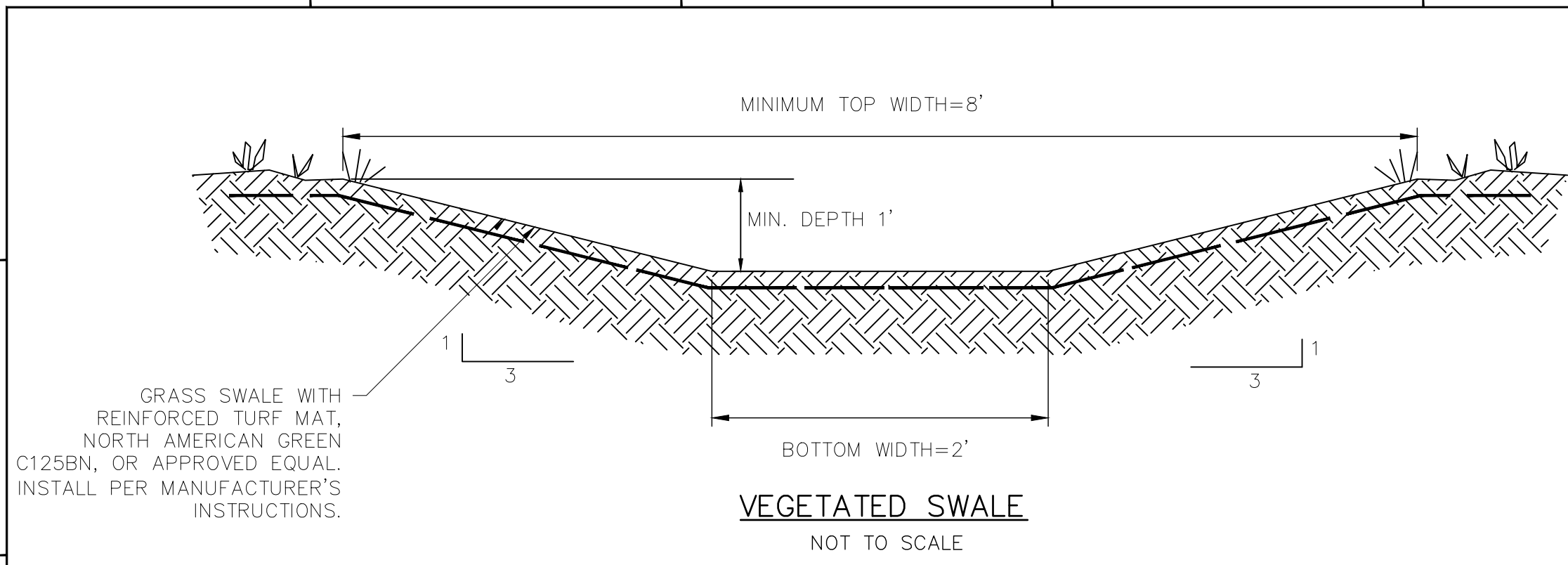
CLIENT
VINEYARD WIND
 700 PLEASANT STREET, SUITE 510
 NEW BEDFORD, MA. 02740

PROJECT
 VINEYARD WIND OFFSHORE WIND
 PROJECT SUBSTATION

TITLE:
 220/115kV SUBSTATION
 GRADING PLAN SECTIONS AND DETAILS

DOC ID:
 VW-OSP-LNA-XS-0001-001

SHEET 01 OF 01 DWG. NO SHEET-001 SCALE 1"=40' FORMAT/SIZE ANSI D REV A



- NOTES:
1. SLOT TRENCH DRAIN SHALL CONSIST OF ADS DURASLOT OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
 2. SECURE PIPE SO THAT IT DOES NOT MOVE DURING CONCRETE PLACEMENT AND COVER SLOT TO KEEP CONCRETE FROM ENTERING PIPE.
 3. RECESS THE TOP OF THE SLOT OPENING 3/8" TO 1/4" BELOW FINISHED GRADE AND ROUND CONCRETE EDGES ALONG THE SLOT.
 4. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
 5. CONTRACTION JOINTS SHALL BE SPACED AT 4 FEET.
 6. GRATE SHALL HAVE A DIAMOND SHAPED OPENING AND BE ADA COMPLIANT.

COMPANION DRAWINGS:
 VW-DSP-LNA-XE-0001-001 GRADING PLAN
 VW-DSP-LNA-XE-0003-001 FENCE AND RETAINING WALL PLAN
 VW-DSP-LNA-XE-0003-002 RETAINING WALL PROFILE
 VW-DSP-LNA-XS-0001-001 GRADING PLAN SECTIONS AND DETAILS

- NOTES:
1. MANUFACTURED TO MEET OR EXCEED: ASTM C-47B & AASHTO M 199 SPECS.
 2. CONCRETE=4,000 PSI. MINIMUM CEMENT PER ASTM C-478 (6.1).
 3. REINFORCED STEEL CONFORMS TO LATEST ASTM A 185 SPECIFICATIONS. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM.
 4. STEEL REINFORCEMENT TO MEET OR EXCEED AASHTO HS-20 LOADING.
 5. MANHOLE STEPS MEET LATEST OSHA REGULATION 29 CFR1910.27, SECTION 16 OF ASTM SPECIFICATION C478 AND SECTION 10 OF ASTM SPECIFICATION C497.
 6. BUTYL RUBBER JOINT SEALANT PER ASTM C-990 & AASHTO M-198.

75%
DESIGN REVIEW

PRELIMINARY
NOT FOR
CONSTRUCTION

| REV. | DATE | REVISION DESCRIPTION | STATUS | DRAWN | CHKD | APPR. |
|------|----------|----------------------|--------|-------|------|-------|
| A | 07/30/21 | ISSUED FOR REVIEW | IFR | PJD | WED | WED |

CONTRACTOR
linxon
 AN ABB & SNC LAVAULI COMPANY
 901 MAIN CAMPUS DRIVE (SUITE 210)
 RALEIGH, NC 27606

CLIENT
VINEYARD WIND
 700 PLEASANT STREET, SUITE 510
 NEW BEDFORD, MA. 02740

PROJECT
 VINEYARD WIND OFFSHORE
 WIND PROJECT SUBSTATION

TITLE
 220/115 kV SUBSTATION
 DRAINAGE DETAILS

DOC ID
 VW-DSP-LNA-XS-0002-001

| SHEET | DWGND | SCALE | FORMAT/SIZE | REV |
|-------|-------|-----------|-------------|----------|
| 01 | DF | SHEET-001 | NTS | ANSI D A |