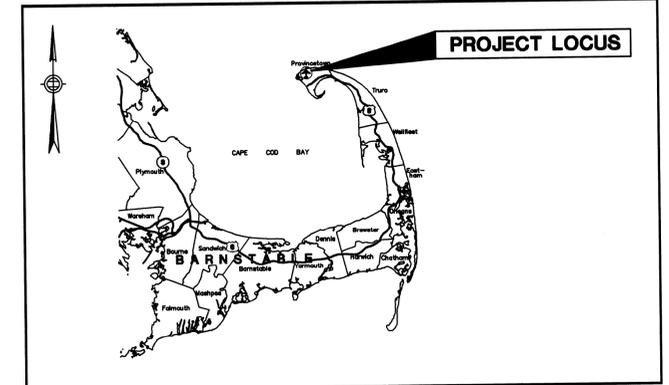


TOWN OF PROVINCETOWN MASSACHUSETTS

PERMITTING PLANS
NOT FOR CONSTRUCTION



VICINITY PLAN

PROVINCETOWN MUNICIPAL AIRPORT

AIP NO. 3-25-0043-36-2013

INDEX OF DRAWINGS

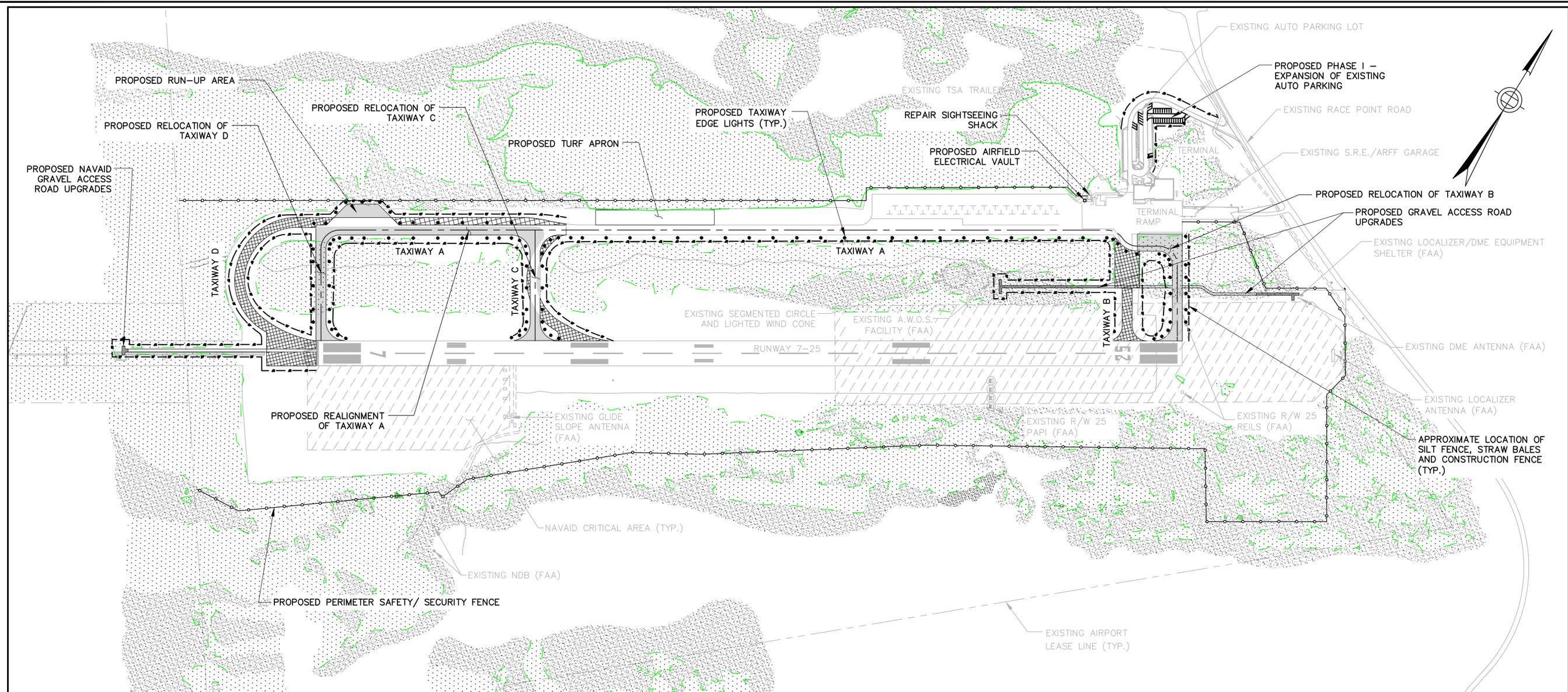
SHEET NUMBER	TITLE
1	TITLE SHEET
2	ENVIRONMENTAL DELINEATION PLAN
3	PROPOSED AIRFIELD IMPROVEMENT PLAN
4	PROPOSED AIRFIELD IMPROVEMENT PLAN, SHEET 1 OF 4
5	PROPOSED AIRFIELD IMPROVEMENT PLAN, SHEET 2 OF 4
6	PROPOSED AIRFIELD IMPROVEMENT PLAN, SHEET 3 OF 4
7	PROPOSED AIRFIELD IMPROVEMENT PLAN, SHEET 4 OF 4
8	PROPOSED FENCE PLAN
9	PROPOSED PHASE 1 PARKING LOT GRADING AND DRAINAGE
10	PROPOSED PHASE 1 GRADING AND DRAINAGE DETAILS 1
11	PROPOSED PHASE 1 GRADING AND DRAINAGE DETAILS 2
12	WETLAND MITIGATION - WEST END TAXIWAY
13	WETLAND MITIGATION - EAST END TAXIWAY
14	MITIGATION AREA DETAILS
15	EROSION CONTROL AND SEDIMENTATION DETAILS

PROVINCETOWN MUNICIPAL AIRPORT CAPITAL IMPROVEMENT PLAN



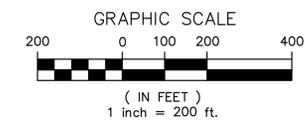
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FOR PERMITTING PURPOSES ONLY AND SHALL
NOT BE ISSUED OR USED FOR CONSTRUCTION.

MAY, 2015



ENVIRONMENTAL DELINEATION PLAN
SCALE: 1"=200'

LEGEND		
PROPOSED	EXISTING	
	[Stippled pattern]	EXISTING WETLAND AREA
	[Dotted pattern]	EXISTING DUNE AREA
	[Dashed line]	WETLANDS BOUNDARY
[Dashed line]		PROPOSED EROSION CONTROL - STRAW FIBER ROLLS ONLY
[Solid line]	[Dashed line]	CONTOUR
	[Cross-hatched pattern]	EXISTING IMPERVIOUS AREA TO BE REMOVED
	[Diagonal hatched pattern]	PROPOSED IMPERVIOUS PAVED AREA
	[Diagonal hatched pattern]	PROPOSED NAVAID GRAVEL ACCESS ROAD UPGRADES
	[Diagonal hatched pattern]	EXISTING NAVAID CRITICAL AREA
	[Dashed line]	EXISTING LEASE LIMITS
	[Line with circles]	PROPOSED SECURITY FENCE
	[Dot]	PROPOSED TAXIWAY EDGE LIGHT



REV. NO.	DATE	DESCRIPTION	BY

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SCALE: AS NOTED DATE: MAY 2015 DESIGNED BY: SHD CHECKED BY: SJF DRAWN BY: SHD

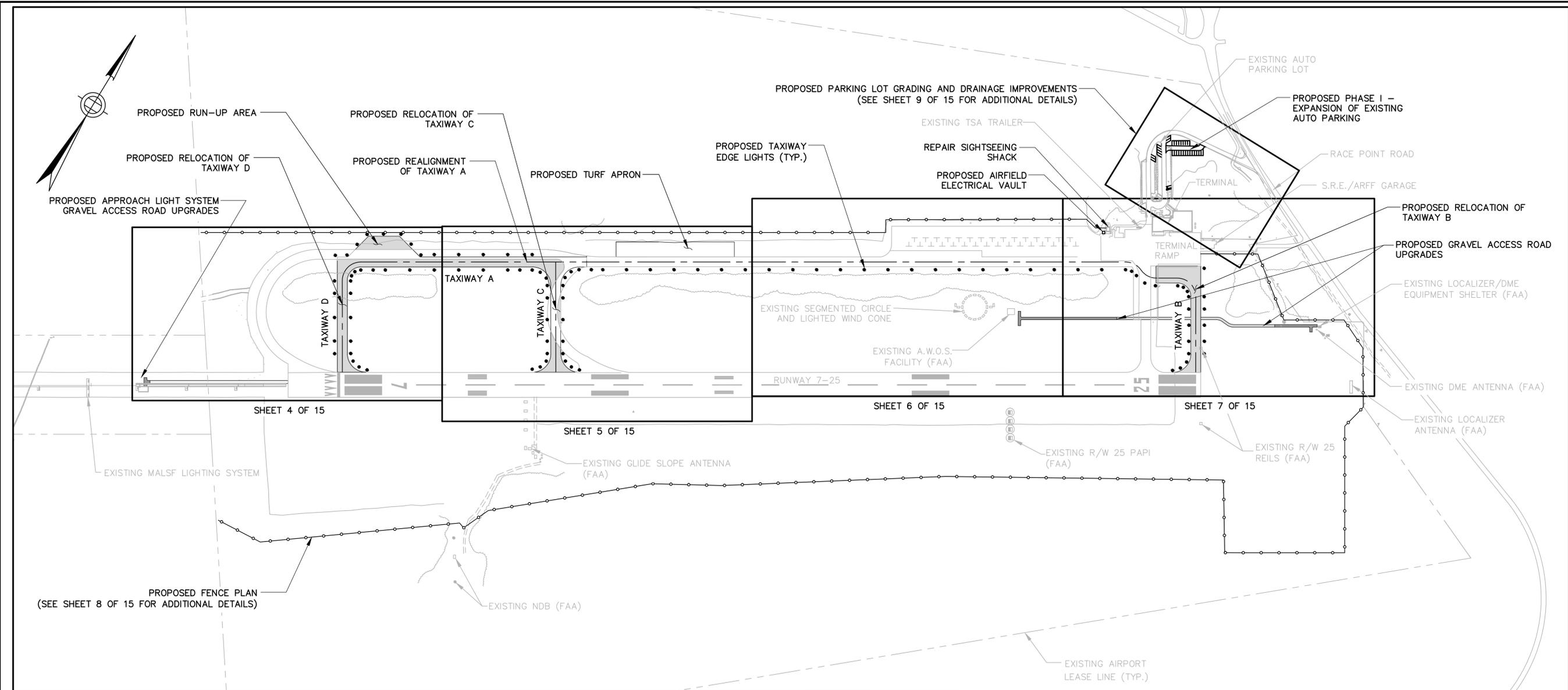
PROVINCETOWN MUNICIPAL AIRPORT
PROVINCETOWN, MASSACHUSETTS

ENVIRONMENTAL DELINEATION PLAN

JACOBS PROJ. NO.:
AIP NO. 3-25-0043-36-2013

DRAWING NO.

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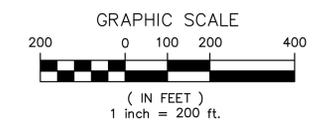


PROPOSED AIRFIELD IMPROVEMENT PLAN
SCALE: 1"=200'

NOTE:

- EXISTING CONDITIONS SHOWN THROUGHOUT THESE DRAWINGS ARE BASED ON AN ON-THE-GROUND INSTRUMENT SURVEY CONDUCTED ON MAY 3, 2012.
- THE HORIZONTAL COORDINATE SYSTEM FOR THIS SURVEY IS TIED TO THE COORDINATE SYSTEM FOR THE AIRPORT PRIMARY CONTROL POINTS PVC A, PVC B & PVC C.
- ELEVATION REFERS TO AN ASSUMED ELEVATION DATUM. ORIGIN OF THE VERTICAL DATUM IS PRIMARY AIRPORT CONTROL STATION PVC A WITH A DISK ELEVATION OF 7.94' (ASSUMED).

LEGEND		
PROPOSED	EXISTING	
	[Stippled pattern]	EXISTING WETLAND AREA
	[Cross-hatched pattern]	EXISTING DUNE AREA
	[Dashed line]	WETLANDS BOUNDARY
	[Dashed line]	PROPOSED EROSION CONTROL - STRAW FIBER ROLLS ONLY
8.6	7.8	CONTOUR
	[Diagonal hatching]	EXISTING IMPERVIOUS AREA TO BE REMOVED
	[Solid grey]	PROPOSED IMPERVIOUS PAVED AREA
	[Diagonal hatching]	PROPOSED APPROACH LIGHT SYSTEM GRAVEL ACCESS ROAD UPGRADES
	[Diagonal hatching]	EXISTING GLIDE SLOPE CRITICAL AREA
	[Dashed line]	EXISTING LEASE LIMITS
	[Line with circles]	PROPOSED SECURITY FENCE
	[Dot]	PROPOSED TAXIWAY EDGE LIGHT



REV. NO.	DATE	DESCRIPTION	BY

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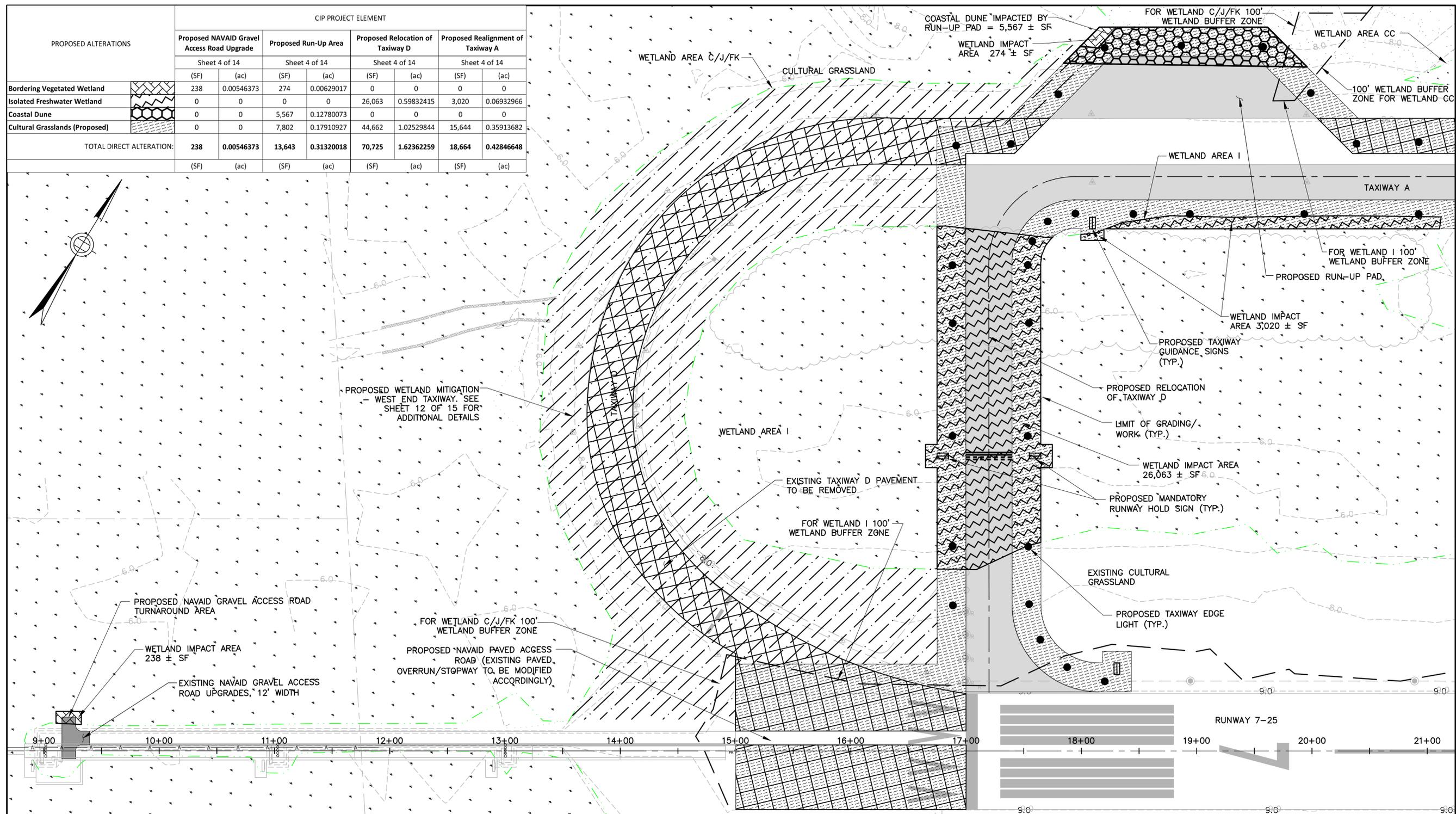
PROVINCETOWN MUNICIPAL AIRPORT
PROVINCETOWN, MASSACHUSETTS

PROPOSED AIRFIELD IMPROVEMENT PLAN

JACOBS PROJ. NO.:
AIP NO. 3-25-0043-36-2013

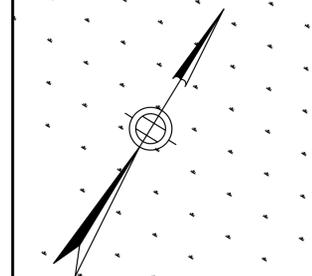
DRAWING NO.

SHEET 3 OF 15



PROPOSED ALTERATIONS

PROPOSED ALTERATIONS	CIP PROJECT ELEMENT							
	Proposed NAVAID Gravel Access Road Upgrade		Proposed Run-Up Area		Proposed Relocation of Taxiway D		Proposed Realignment of Taxiway A	
	(SF)	(ac)	(SF)	(ac)	(SF)	(ac)	(SF)	(ac)
Bordering Vegetated Wetland	238	0.00546373	274	0.00629017	0	0	0	0
Isolated Freshwater Wetland	0	0	0	0	26,063	0.59832415	3,020	0.06932966
Coastal Dune	0	0	5,567	0.12780073	0	0	0	0
Cultural Grasslands (Proposed)	0	0	7,802	0.17910927	44,662	1.02529844	15,644	0.35913682
TOTAL DIRECT ALTERATION:	238	0.00546373	13,643	0.31320018	70,725	1.62362259	18,664	0.42846648
	(SF)	(ac)	(SF)	(ac)	(SF)	(ac)	(SF)	(ac)

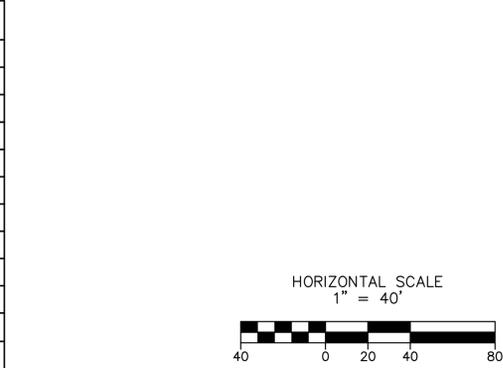


PROPOSED AIRFIELD IMPROVEMENT PLAN
SHEET 1 OF 4
SCALE 1"=40'

KEY MAP

LEGEND

PROPOSED	EXISTING	DESCRIPTION	PROPOSED	EXISTING	DESCRIPTION
		EXISTING WETLAND AREA	○		PROPOSED SECURITY FENCE
		EXISTING DUNE AREA	•		PROPOSED TAXIWAY EDGE LIGHT
		WETLANDS BOUNDARY	△		TAXIWAY STAKE MOUNTED LIGHT
		100' BUFFER ZONE	⊙		BASE MOUNTED HIGH INTENSITY ELEVATED RUNWAY EDGE LIGHT (WHITE/AMBER LENS)
		PROPOSED EROSION CONTROL - STRAW FIBER ROLLS ONLY	≡	□	MISCELLANEOUS SIGN
8.6	7.8	CONTOUR			PROPOSED WETLAND IMPACT AREA (ISOLATED FRESHWATER)
		EXISTING IMPERVIOUS AREA TO BE REMOVED			PROPOSED WETLAND IMPACT AREA (BORDERING VEGETATED)
		PROPOSED IMPERVIOUS PAVED AREA			PROPOSED COSTAL DUNE IMPACT AREA
		PROPOSED NAVAID GRAVEL ACCESS ROAD UPGRADES			PROPOSED CULTURAL GRASSLAND
		EXISTING NAVAID CRITICAL AREA			PROPOSED WETLAND RESTORATION AREA
		EXISTING LEASE LIMITS			PROPOSED COASTAL DUNE RESTORATION AREA



PROVINCETOWN MUNICIPAL AIRPORT
PROVINCETOWN, MASSACHUSETTS

PROPOSED AIRFIELD IMPROVEMENT PLAN
SHEET 1 OF 4

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AIP NO. 3-25-0043-36-2013

DRAWING NO.
SHEET 4 OF 15

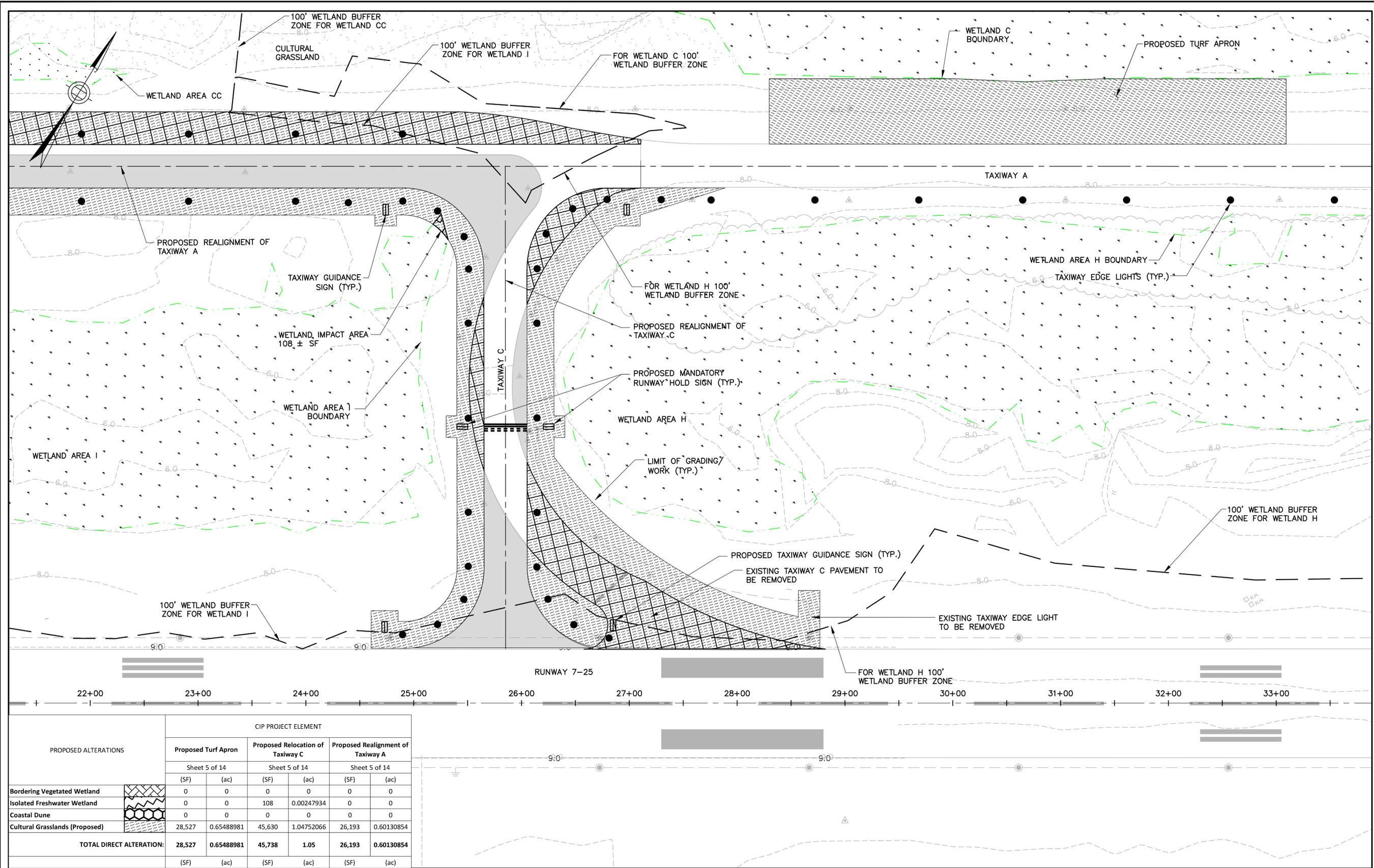
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SCALE: AS NOTED

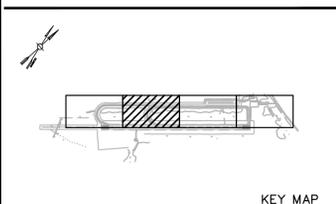
DESIGNED BY: SNA
DRAWN BY: SNA
CHECKED BY: S.F.

REVISIONS

REV. NO.	DATE	DESCRIPTION	BY

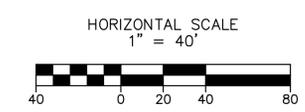


PROPOSED ALTERATIONS	CIP PROJECT ELEMENT					
	Proposed Turf Apron		Proposed Relocation of Taxiway C		Proposed Realignment of Taxiway A	
	(SF)	(ac)	(SF)	(ac)	(SF)	(ac)
Sheet 5 of 14	Sheet 5 of 14		Sheet 5 of 14		Sheet 5 of 14	
Bordering Vegetated Wetland	0	0	0	0	0	0
Isolated Freshwater Wetland	0	0	108	0.00247934	0	0
Coastal Dune	0	0	0	0	0	0
Cultural Grasslands (Proposed)	28,527	0.65488981	45,630	1.04752066	26,193	0.60130854
TOTAL DIRECT ALTERATION:	28,527	0.65488981	45,738	1.05	26,193	0.60130854
	(SF)	(ac)	(SF)	(ac)	(SF)	(ac)

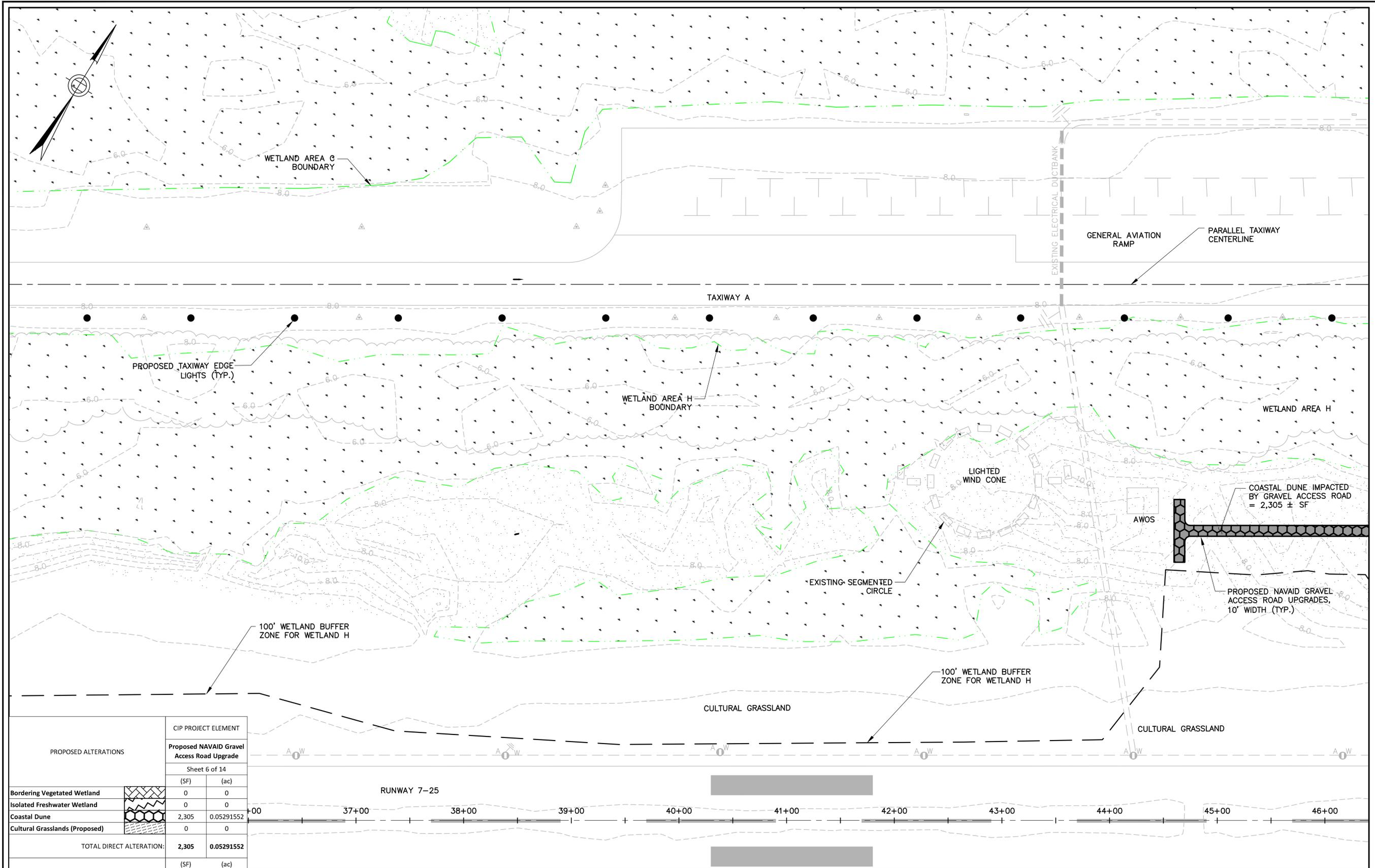


**PROPOSED AIRFIELD IMPROVEMENT PLAN
SHEET 2 OF 4
SCALE 1"=40'**

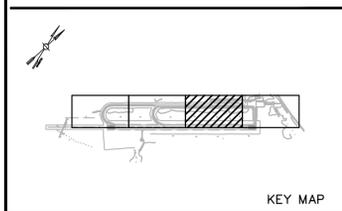
NOTE:
1. FOR LEGEND, SEE SHEET 4 OF 15 - PROPOSED AIRFIELD IMPROVEMENT PLAN; SHEET 1 OF 4.



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PROVINCETOWN MUNICIPAL AIRPORT PROVINCETOWN, MASSACHUSETTS	PROPOSED AIRFIELD IMPROVEMENT PLAN SHEET 2 OF 4	
JACOBS PROJ. NO.: AIP NO. 3-25-0043-36-2013	DRAWING NO.	
SHEET 5 OF 15		

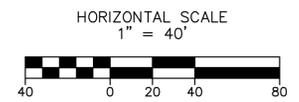


PROPOSED ALTERATIONS	CIP PROJECT ELEMENT	
	(SF)	(ac)
Proposed NAVAID Gravel Access Road Upgrade		
	Sheet 6 of 14	
Bordering Vegetated Wetland	0	0
Isolated Freshwater Wetland	0	0
Coastal Dune	2,305	0.05291552
Cultural Grasslands (Proposed)	0	0
TOTAL DIRECT ALTERATION:	2,305	0.05291552
	(SF)	(ac)



PROPOSED AIRFIELD IMPROVEMENT PLAN
SHEET 3 OF 4
 SCALE 1"=40'

NOTE:
 1. FOR LEGEND, SEE SHEET 4 OF 15 - PROPOSED AIRFIELD IMPROVEMENT PLAN; SHEET 1 OF 4.



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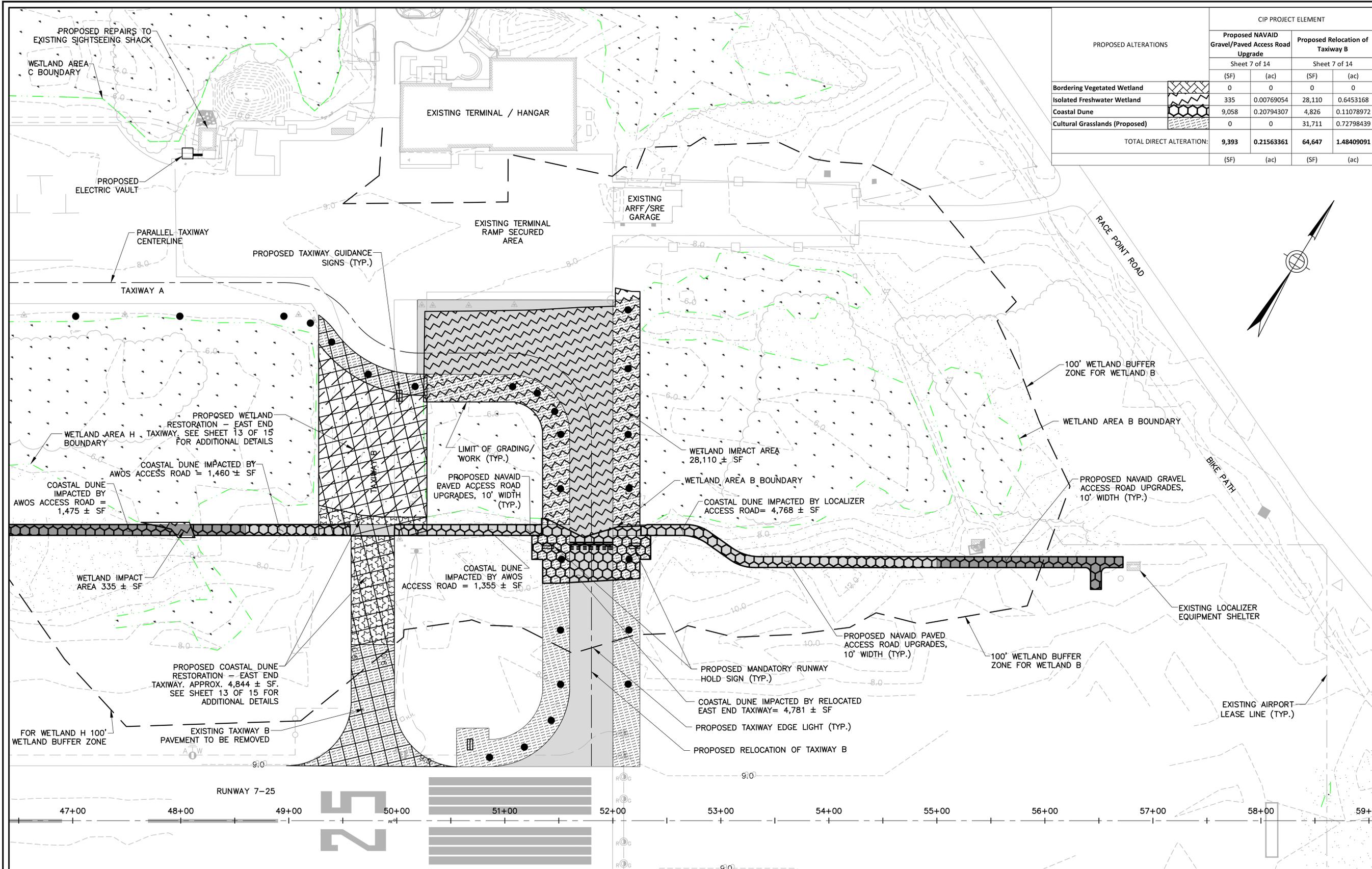
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PROPOSED AIRFIELD IMPROVEMENT PLAN
SHEET 3 OF 4

JACOBS PROJ. NO.:
 AIP NO. 3-25-0043-36-2013

DRAWING NO.
 SHEET 6 OF 15



PROPOSED ALTERATIONS	CIP PROJECT ELEMENT			
	Proposed NAVAID Gravel/Paved Access Road Upgrade		Proposed Relocation of Taxiway B	
	Sheet 7 of 14		Sheet 7 of 14	
	(SF)	(ac)	(SF)	(ac)
Bordering Vegetated Wetland	0	0	0	0
Isolated Freshwater Wetland	335	0.00769054	28,110	0.6453168
Coastal Dune	9,058	0.20794307	4,826	0.11078972
Cultural Grasslands (Proposed)	0	0	31,711	0.72798439
TOTAL DIRECT ALTERATION:	9,393	0.21563361	64,647	1.48409091
	(SF)	(ac)	(SF)	(ac)

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**PROPOSED AIRFIELD IMPROVEMENT PLAN
 SHEET 4 OF 4**

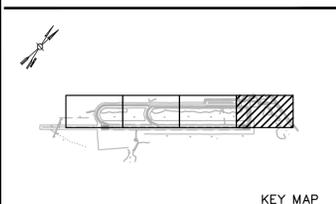
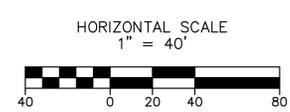
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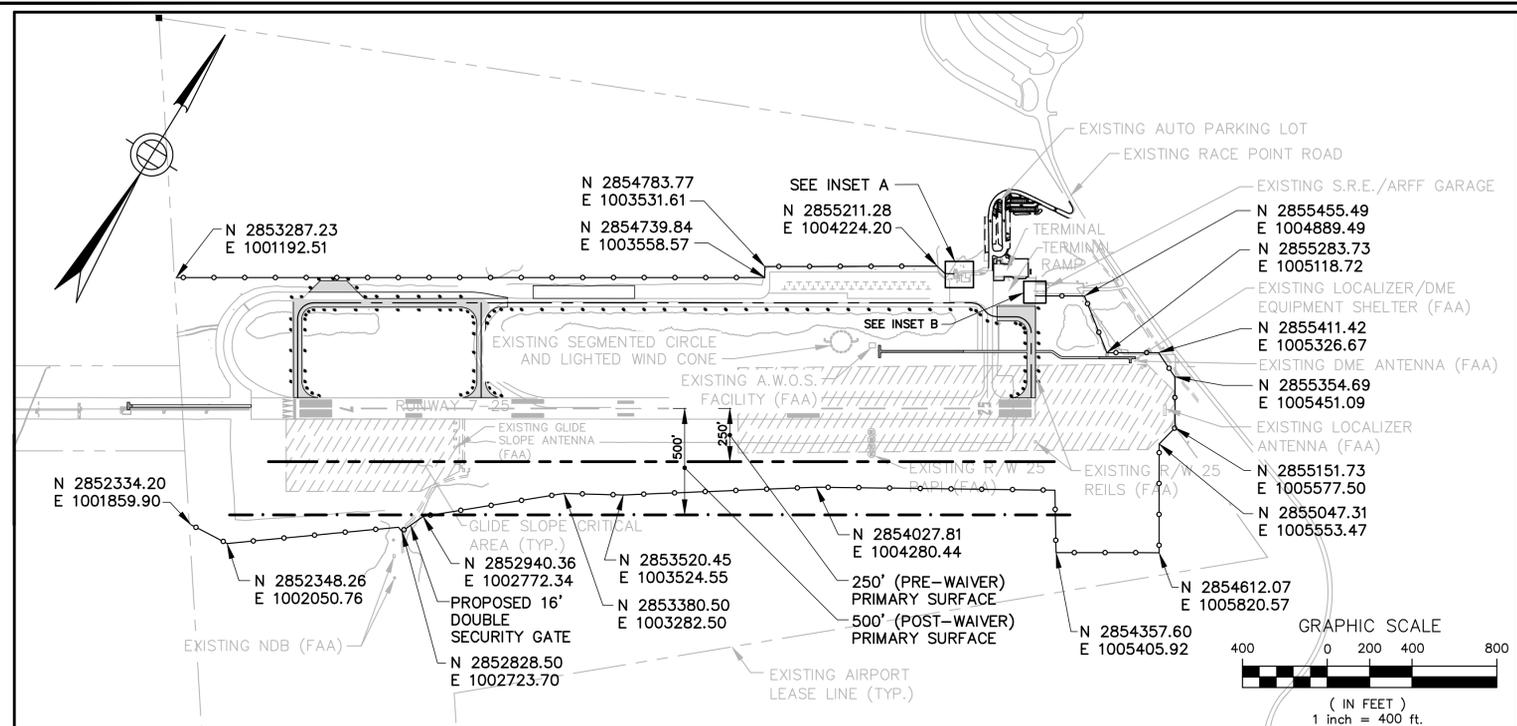
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SHEET 7 OF 15

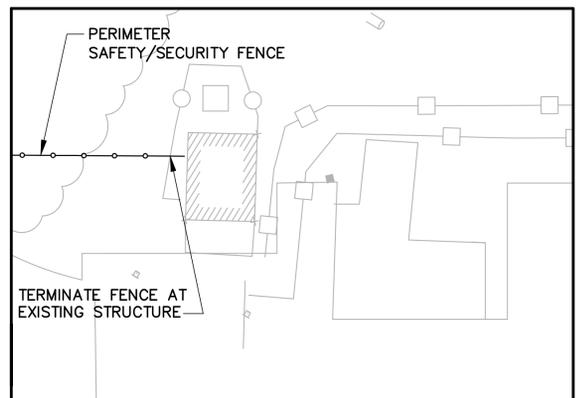
**PROPOSED AIRFIELD IMPROVEMENT PLAN
 SHEET 4 OF 4
 SCALE 1"=40'**

NOTE:
 1. FOR LEGEND, SEE SHEET 4 OF 15 - PROPOSED AIRFIELD IMPROVEMENT PLAN; SHEET 1 OF 4.

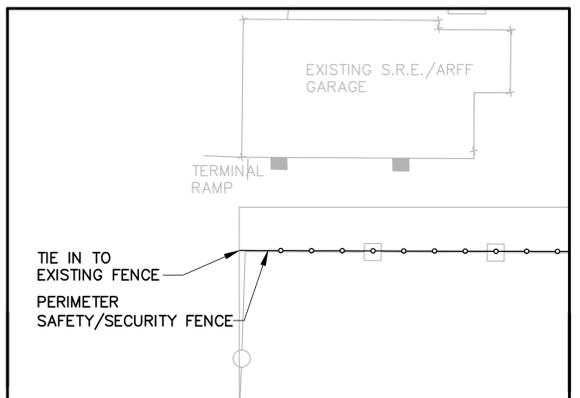




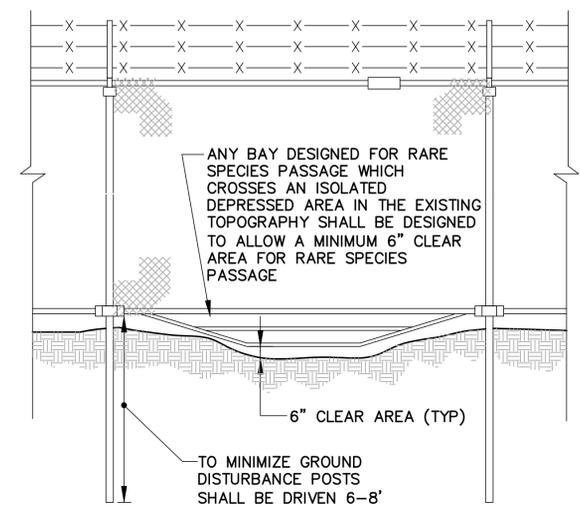
PROPOSED FENCE PLAN
SCALE = 1"=400'



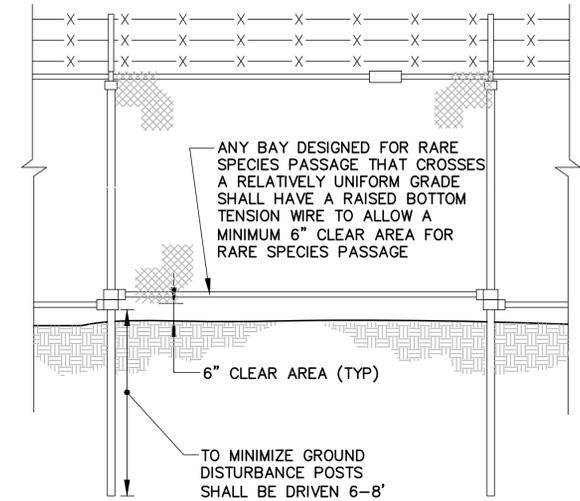
INSET A
SCALE = 1"=20'



INSET B
SCALE = 1"=20'



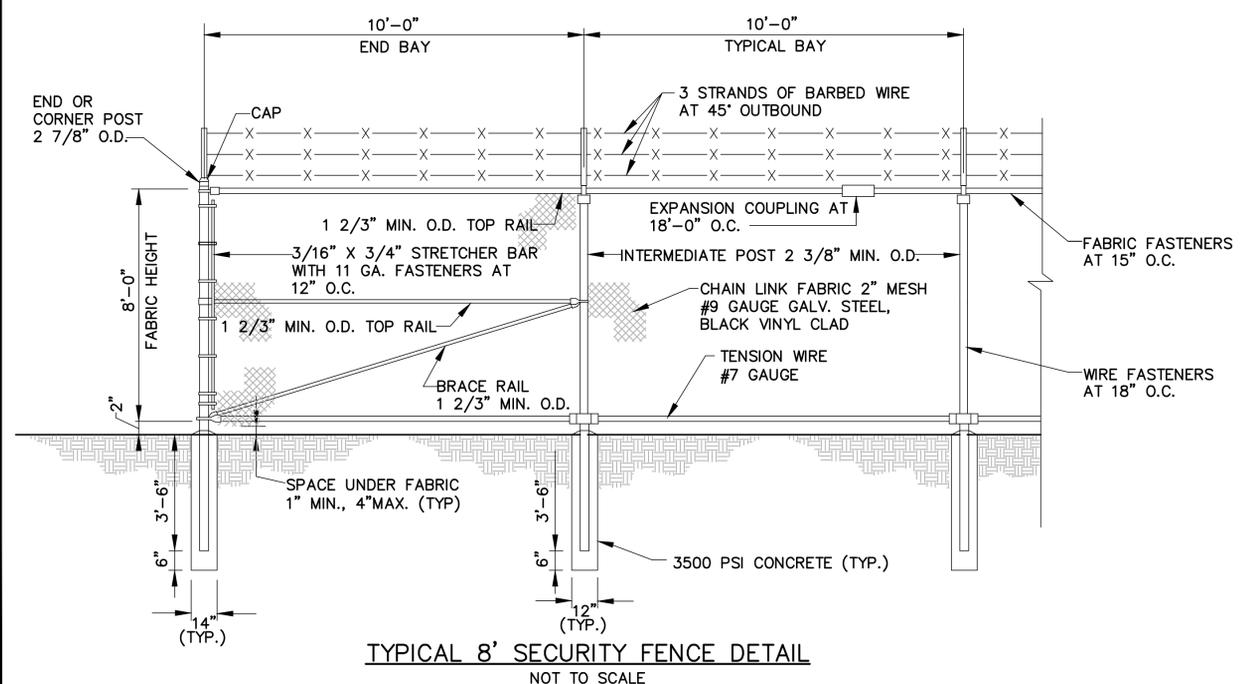
MITIGATING CONDITION A



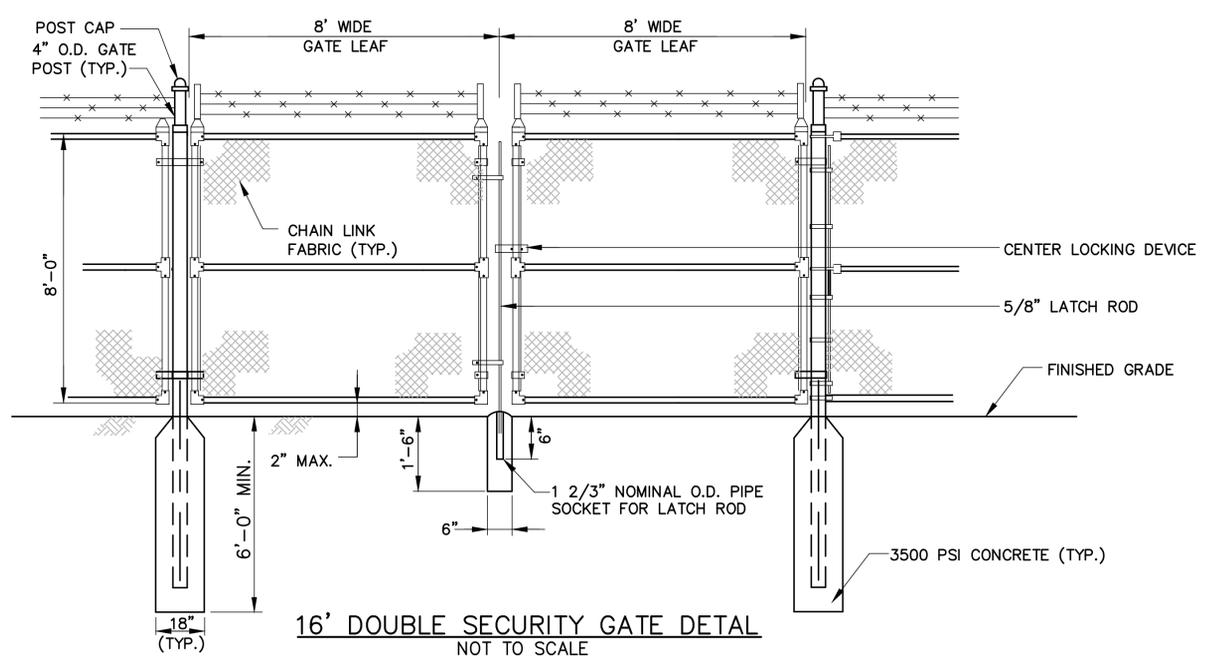
MITIGATING CONDITION B

NOTE:
1. FOR LEGEND, SEE SHEET 3 OF 15, PROPOSED AIRFIELD IMPROVEMENT PLAN.

SECURITY FENCE ENVIRONMENTAL MITIGATION DETAILS
(EVERY 100 LINEAR FEET IN BOX TURTLE HABITAT)
NOT TO SCALE



TYPICAL 8' SECURITY FENCE DETAIL
NOT TO SCALE



16' DOUBLE SECURITY GATE DETAIL
NOT TO SCALE

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DRAWN BY	SMA
CHECKED BY	SJF
DATE:	MAY 2015
SCALE:	AS NOTED

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PROVINCETOWN, MASSACHUSETTS

PROPOSED FENCE PLAN

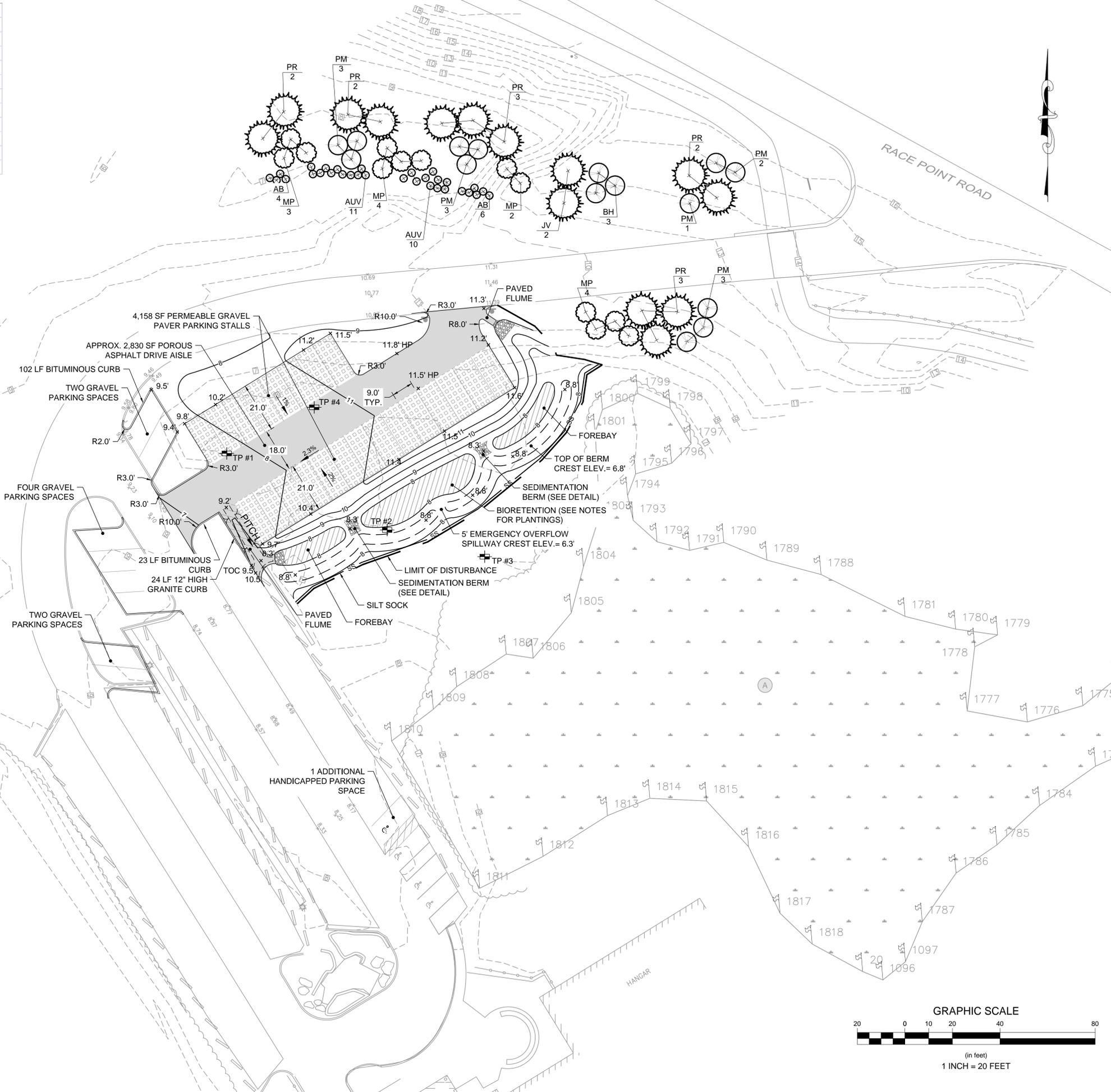
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Planting Schedule for Parking Lot (Phase 1)					
Key	Qty	Botanical Name	Common Name	Size	Spacing
Evergreens					
JV	2	<i>Juniperus virginiana</i>	Eastern red cedar	8' - 10' h.	As Shown
PR	12	<i>Pinus rigida</i>	Pitch Pine	6/7 B&B	As Shown
Shrubs					
BH	3	<i>Baccharis halimifolia</i>	Groundsel	#1	As Shown
MP	13	<i>Morella pensylvanica</i>	Northern bayberry	24"/30" B&B	As Shown
PM	12	<i>Prunus maritima</i>	Beach Plum	3'/4' B&B	As Shown
Groundcovers/Grasses					
AB	10	<i>Ammophila breviligulata</i>	American Beach Grass	3" av pots	12"-18" O.C.
AUV	21	<i>Arctostaphylos uva-ursi</i>	Bearberry	#2	2' O.C.

- BIORETENTION AND FOREBAY PLANTINGS (IN HATCHED AREA) TO INCLUDE:**
- NORTHERN BAYBERRY (MORELLA PENSYLVANICA)
 - VIRGINIA ROSE (ROSA VIRGINIANA)
 - SWITCH GRASS (PANICUM VIRGATUM)
 - DWARF HUCKLEBERRY (GAYLUSSACIA DUMOSA)
- BIORETENTION SIDE SLOPE PLANTINGS TO INCLUDE:**
- AMERICAN BEACHGRASS (AMMOPHILA BREVILIGULATA)
 - BEARBERRY (ARCTOSTAPHYLOS UVA-URSI)
 - SEASIDE GOLDENROD (SOLIDAGO SEMPERVIRENS)
 - BEACH HEATH (HUDSONIA TOMENTOSA)
 - LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)



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Tel 508-858-6669
www.horleywilton.com

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CHECKED BY: RAC
DRAWN BY: GSC
DATE: APRIL 2015
SCALE: AS NOTED

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PROVINCETOWN, MASSACHUSETTS

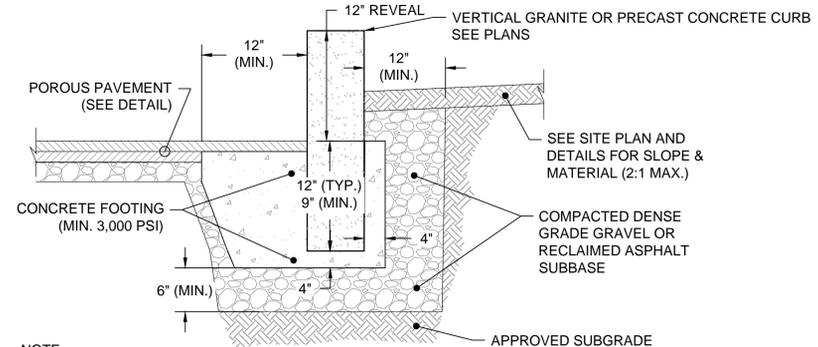
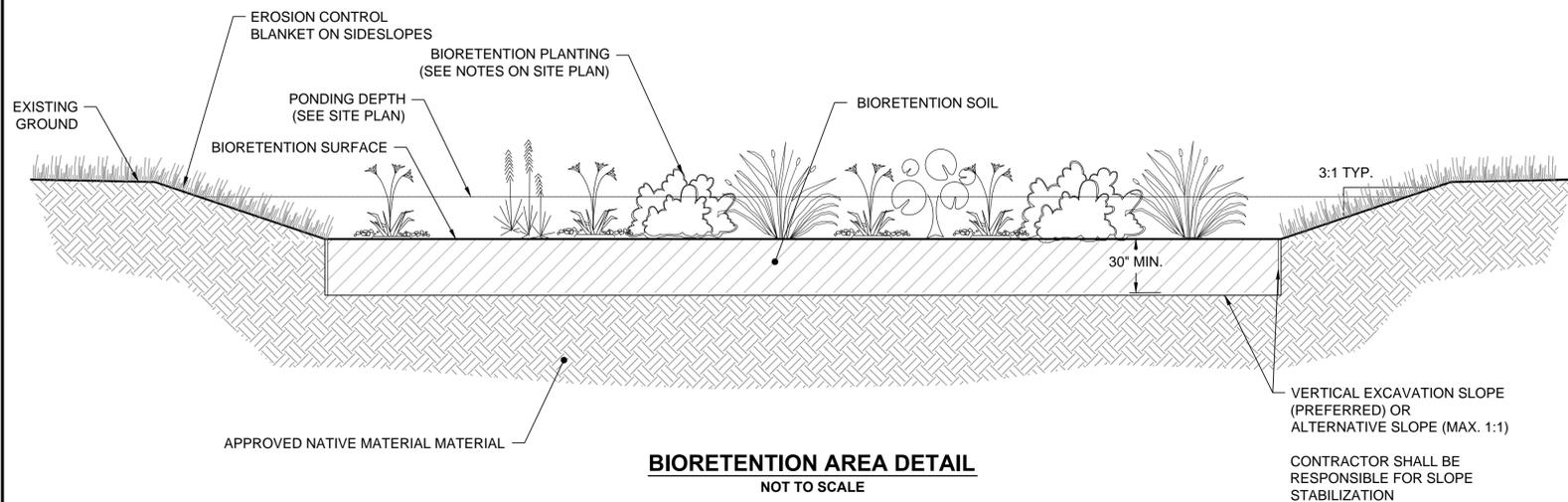
**PROPOSED PHASE 1
PARKING LOT GRADING AND DRAINAGE**

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AIP NO. 3-25-0043-36-2013

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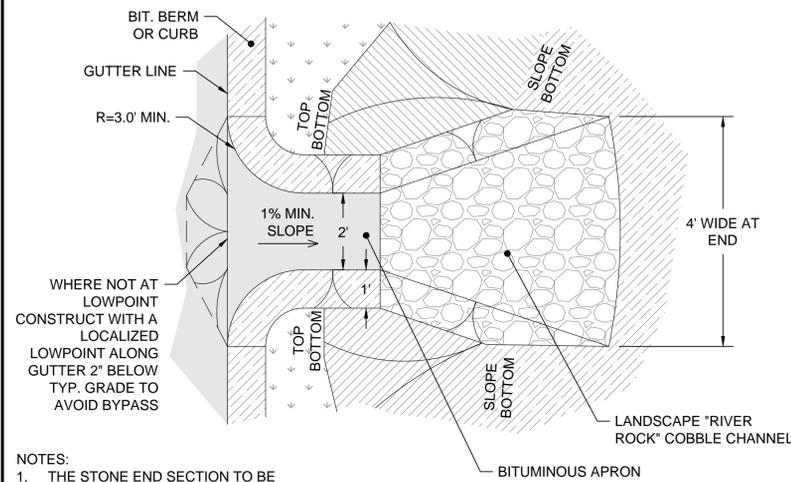
SHEET 9 OF 15

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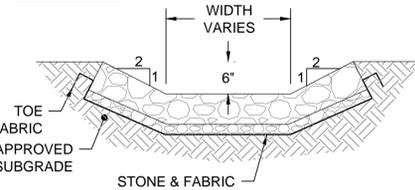
- NOTE:
1. VERTICAL CURB MIN. HEIGHT = 24" MIN. WIDTH = 6"
 2. VERTICAL CURBING TO BE INSTALLED AS SHOWN ON THE SITE PLAN.
 3. PROVIDE CURB EXPANSION JOINTS AT 5'-0" TO 6'-0" O.C.
 4. CURB REPLACEMENT IN EXISTING PAVEMENT - SAWCUT EDGE MIN. 12" FROM CURB.
 5. CONCRETE CURB - PROVIDE 1" CHAMFER OF EDGE ALONG PAVEMENT SIDE FACE FOR CONCRETE CURB.
 6. CONCRETE CURB - TO HAVE A MINIMUM CONCRETE STRENGTH OF 4,000 PSI
 7. CEMENT MORTAR JOINTS & INSTALL PREFORMED (1/2") EXPANSION JOINT WHERE REQUIRED.

TYPICAL VERTICAL CURB
NOT TO SCALE

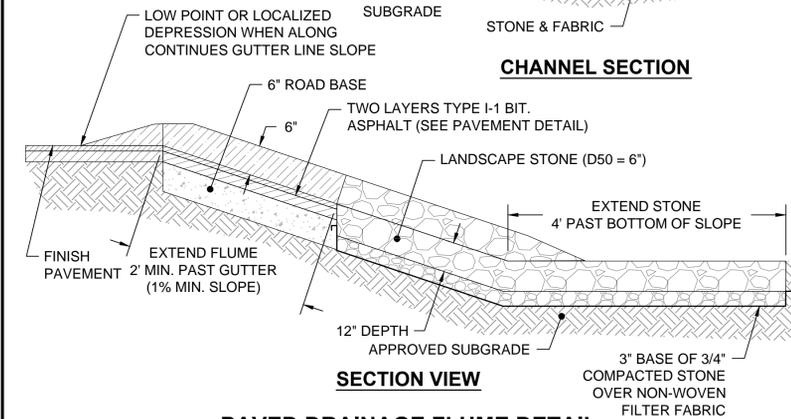


- NOTES:
1. THE STONE END SECTION TO BE UNDERCUT SO THAT THE INVERT OF THE APRON TO BE AT THE SAME GRADE (FLUSH) WITH THE TOP OF STONE.
 2. THE WIDTH OF THE END OF THE APRON TO BE EQUAL TO THE BOTTOM WIDTH OF THE RECEIVING CHANNEL. MAXIMUM TAPER TO RECEIVING CHANNEL 5:1.
 3. THE GEOTEXTILE FILTER FABRIC TO BE MIRAFI 140N OR EQUIVALENT

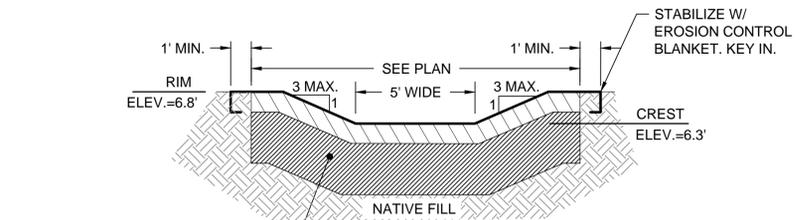
PLAN VIEW



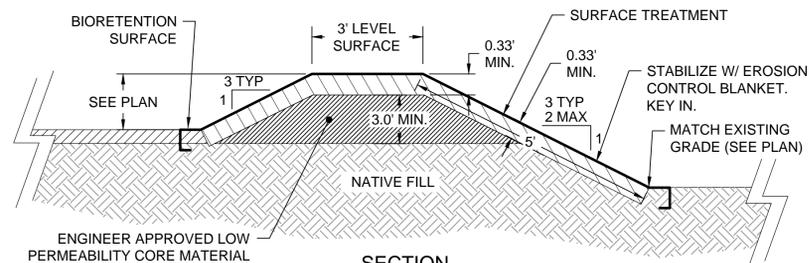
CHANNEL SECTION



PAVED DRAINAGE FLUME DETAIL
NOT TO SCALE



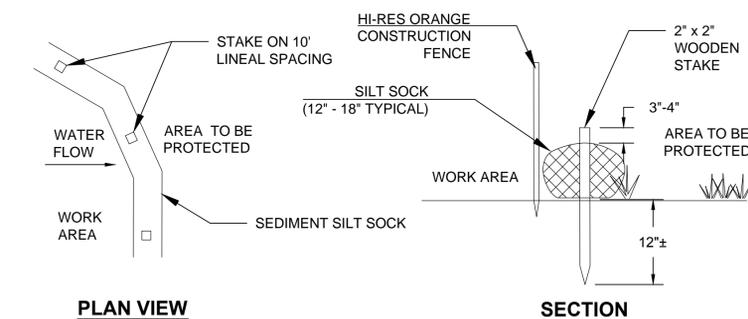
SECTION



SECTION

- NOTES:
1. EROSION CONTROL BLANKET TO BE NORTH AMERICAN GREEN BIONET OR APPROVED EQUIVALENT.

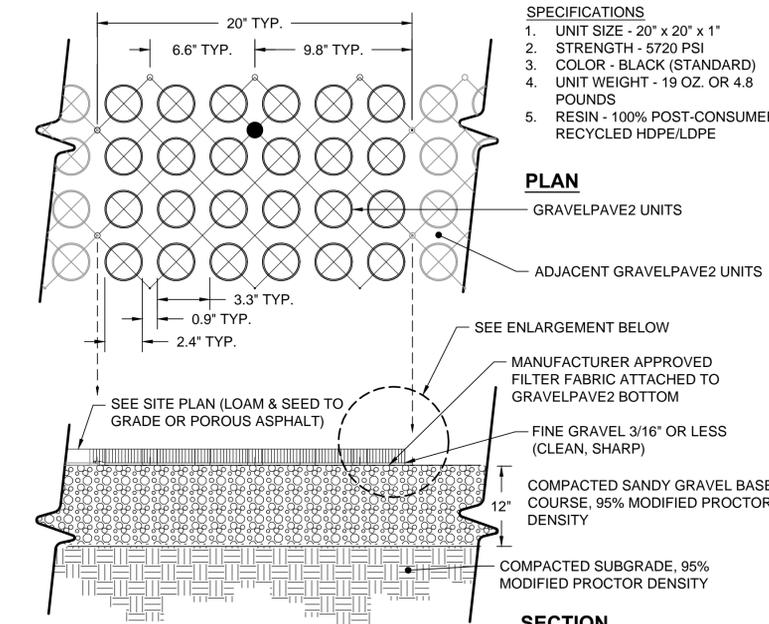
EMERGENCY OVERFLOW SPILLWAY DETAIL
NOT TO SCALE



PLAN VIEW

- NOTES:
1. SILT SOCK MANUFACTURER TO BE SILT SOXX OR ENGINEER APPROVED EQUAL.
 2. ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.
 3. SEDIMENT SILT SOCK TO BE FILLED WITH LEAF COMPOST AND/OR WOODY MULCH PER MANUFACTURER'S REQUIREMENTS.
 4. FOLLOWING CONSTRUCTION AND SITE STABILIZATION, COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE, AS APPROVED BY THE ENGINEER.

SEDIMENT SILT SOCK DETAIL
NOT TO SCALE

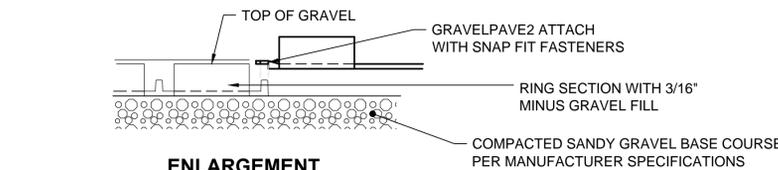
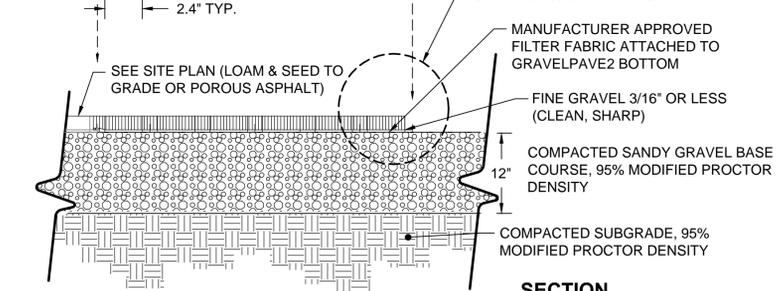


- SPECIFICATIONS
1. UNIT SIZE - 20" x 20" x 2"
 2. STRENGTH - 5720 PSI
 3. COLOR - BLACK (STANDARD)
 4. UNIT WEIGHT - 19 OZ. OR 4.8 POUNDS
 5. RESIN - 100% POST-CONSUMER RECYCLED HDPE/LDPE

PLAN

GRAVELPAVE2 UNITS
ADJACENT GRAVELPAVE2 UNITS

SECTION



ENLARGEMENT

- NOTES:
1. GRAVELPAVE2 PAVERS SHALL BE MANUFACTURED BY INVISIBLE STRUCTURES, INC. OR AN ENGINEER APPROVED EQUAL.
 2. SANDY GRAVEL ROAD BASE MATERIAL SHALL PASS THE FOLLOWING SIEVE ANALYSIS:
- | % PASSING | SIEVE SIZE |
|-----------|------------|
| 100 | 3/4" |
| 85 | 3/8" |
| 60 | #4 |
| 30 | #40 |
| <3 | #200 |
3. EXTERIOR EDGE SHALL BE ANCHORED PER MANUFACTURER'S REQUIREMENTS OR AS APPROVED BY THE ENGINEER.

GRAVEL PAVE PARKING STALL DETAIL
NOT TO SCALE

REVISIONS

NO. DATE DESCRIPTION



343 CONGRESS STREET
BOSTON, MA 02210
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Fax: 617-242-9824
WWW.JACOBS.COM

JACOBS

PROVINCETOWN MUNICIPAL AIRPORT
PROVINCETOWN, MASSACHUSETTS

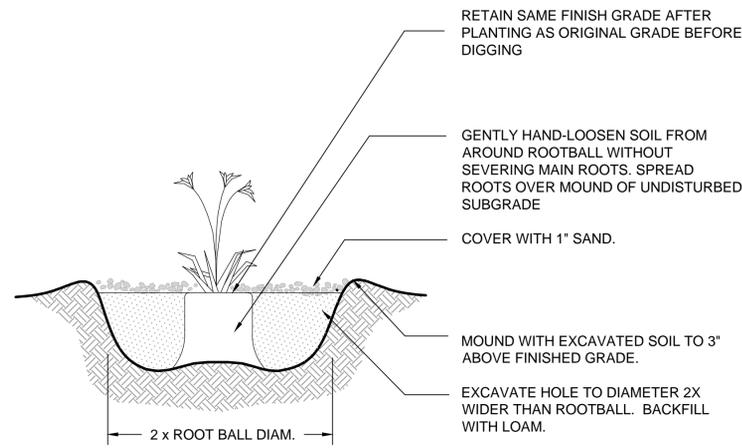
DESIGNED BY: RAC
CHECKED BY: RAC
DRAWN BY: GSC
DATE: APRIL 2015
SCALE: AS NOTED

**PROPOSED PHASE 1
GRADING AND DRAINAGE DETAILS 1**

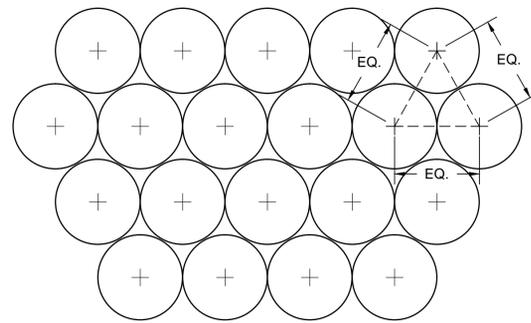
JACOBS PROJ. NO.:
AIP NO. 3-25-0043-36-2013

DRAWING NO.

last modified: 04/28/15 printed: 05/07/15 by ea P:\PROVINCETOWN AIRPORT\2011\2257800\700 CADD\740-WORK\NOI - PERMIT SET\10-11 - HW-4027_DE.dwg

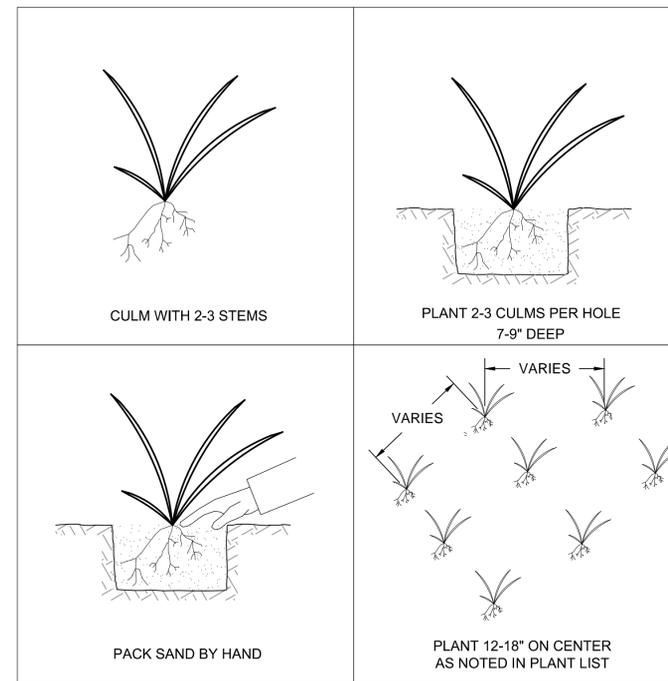


PERENNIAL PLANTING DETAIL
NOT TO SCALE



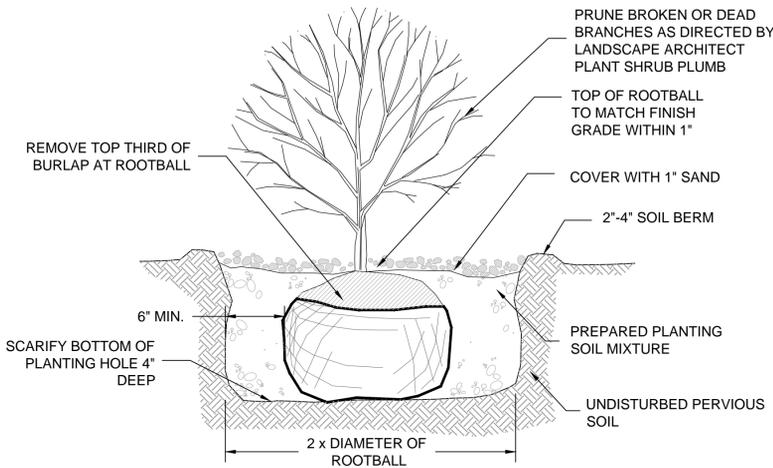
USE EQUIDISTANT TRIANGULAR SPACING FOR PLANTS - FOR ACTUAL SPACING SEE PLANS OR PLANTING SCHEDULE

PLANTING SPACING DETAIL
NOT TO SCALE

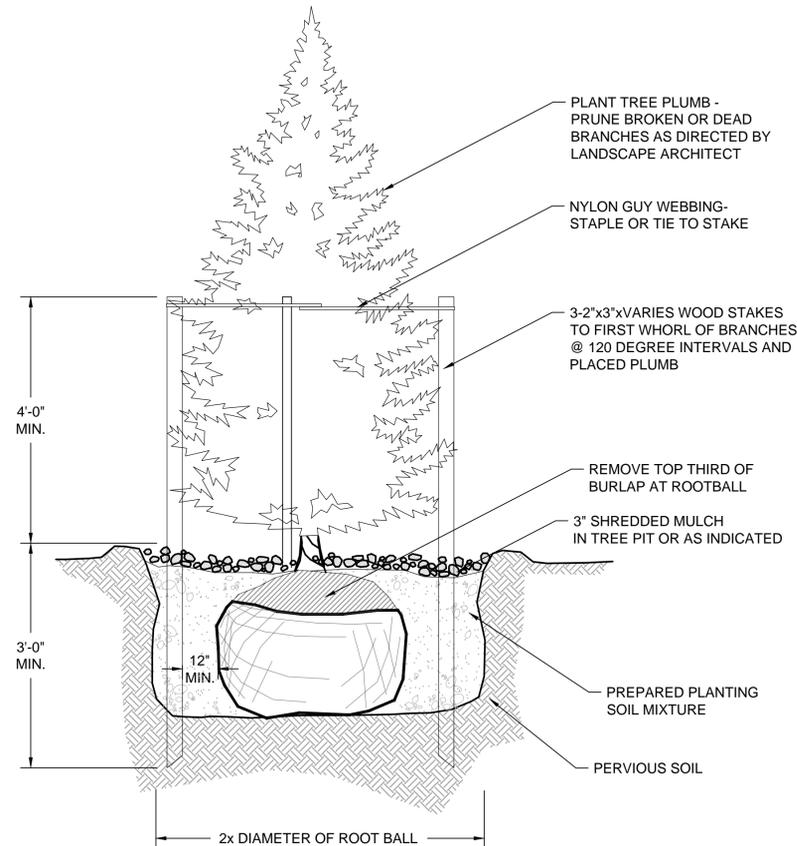


NOTES:
1. ONLY PLANT FROM OCTOBER 1 TO APRIL 30 WHICH BEACH GRASS IS DORMANT
2. STORE CULMS IN MOIST SHADE

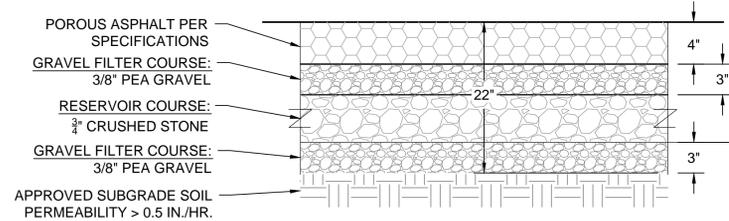
BEACH GRASS PLANTING DETAIL
NOT TO SCALE



SHRUB PLANTING DETAIL
NOT TO SCALE

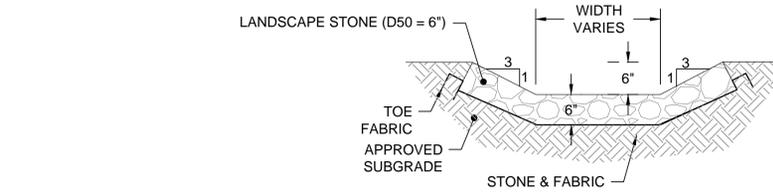


EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

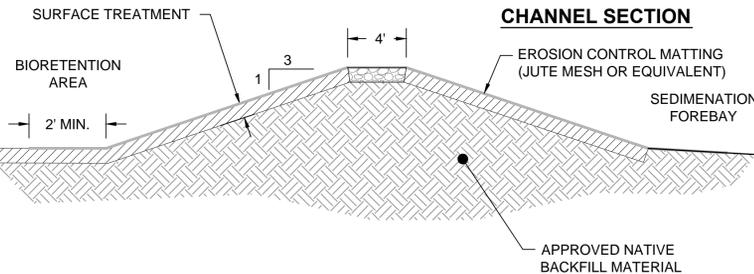


GENERAL NOTES:
1. SANDY-LOAM AND/OR LOAMY-SAND TOPSOIL MATERIAL SHALL BE EXCAVATED FROM ALL PAVED AREAS PRIOR TO SUB-BASE INSTALLATION.
2. SUB-GRADE (EXISTING MATERIAL) SHALL CONSIST OF INERT MATERIAL THAT IS HARD, DURABLE STONE AND/OR COARSE SAND, FREE FROM LOAM AND CLAY TO A DEPTH NOT LESS THAN 4-FT BELOW THE FINISH PAVEMENT SURFACE.
3. SUBGRADE FILL SHALL BE COMPACTED TO 95% COMPACTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. SEE SITE LAYOUT PLAN FOR PAVEMENT WIDTH AND LOCATION.
5. SEE GRADING PLANS FOR PAVEMENT SLOPE AND CROSS SLOPE.

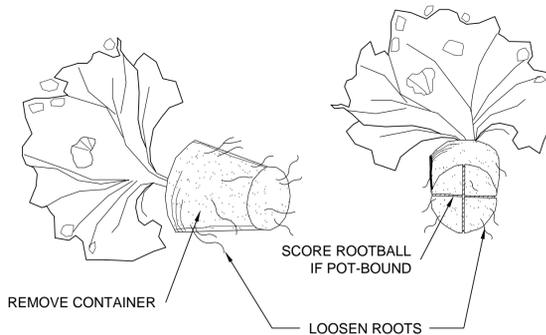
TYPICAL POROUS ASPHALT CROSS-SECTION
NOT TO SCALE



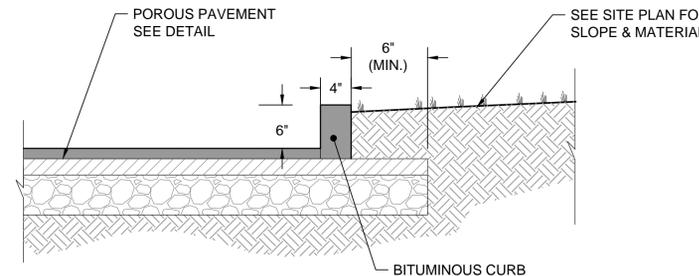
CHANNEL SECTION



SEDIMENTATION BERM DETAIL
NOT TO SCALE



CONTAINER PLANT ROOTBALL TREATMENT
NOT TO SCALE



NOTES:
1. BERM TO BE CONSTRUCTED OF BITUMINOUS WEARING SURFACE COURSE.
2. BERM TO BE CONSTRUCTED INTEGRAL WITH BITUMINOUS WEARING SURFACE.
3. WHEN BERM IS TO BE CONSTRUCTED ON A FRESH LAID BITUMINOUS SURFACE, THAT SURFACE MUST FIRST BE CLEANED.
4. BERM TO BE FOUNDED ENTIRELY ON THE BASE COURSE.
5. FINISH GRADE AT THE BACK OF THE BERM IS TO BE BROUGHT TO THE TOP OF THE BACK EDGE OF BERM.

TYPICAL BITUMINOUS CURB DETAIL
NOT TO SCALE

REV. NO.	DATE	DESCRIPTION

Horley Wilton Group, Inc.
30 Route 64
Sandwich, MA 02563
Tel: 608-858-6669
Fax: 608-858-6669
www.horleywilton.com

CHECKED BY: RAC
DRAWN BY: GSC

343 CONGRESS STREET
BOSTON, MA 02210
Tel: 617-242-9222
Fax: 617-242-9824
WWW.JACOBS.COM

DESIGNED BY: RAC
DATE: APRIL 2015

SCALE: AS NOTED

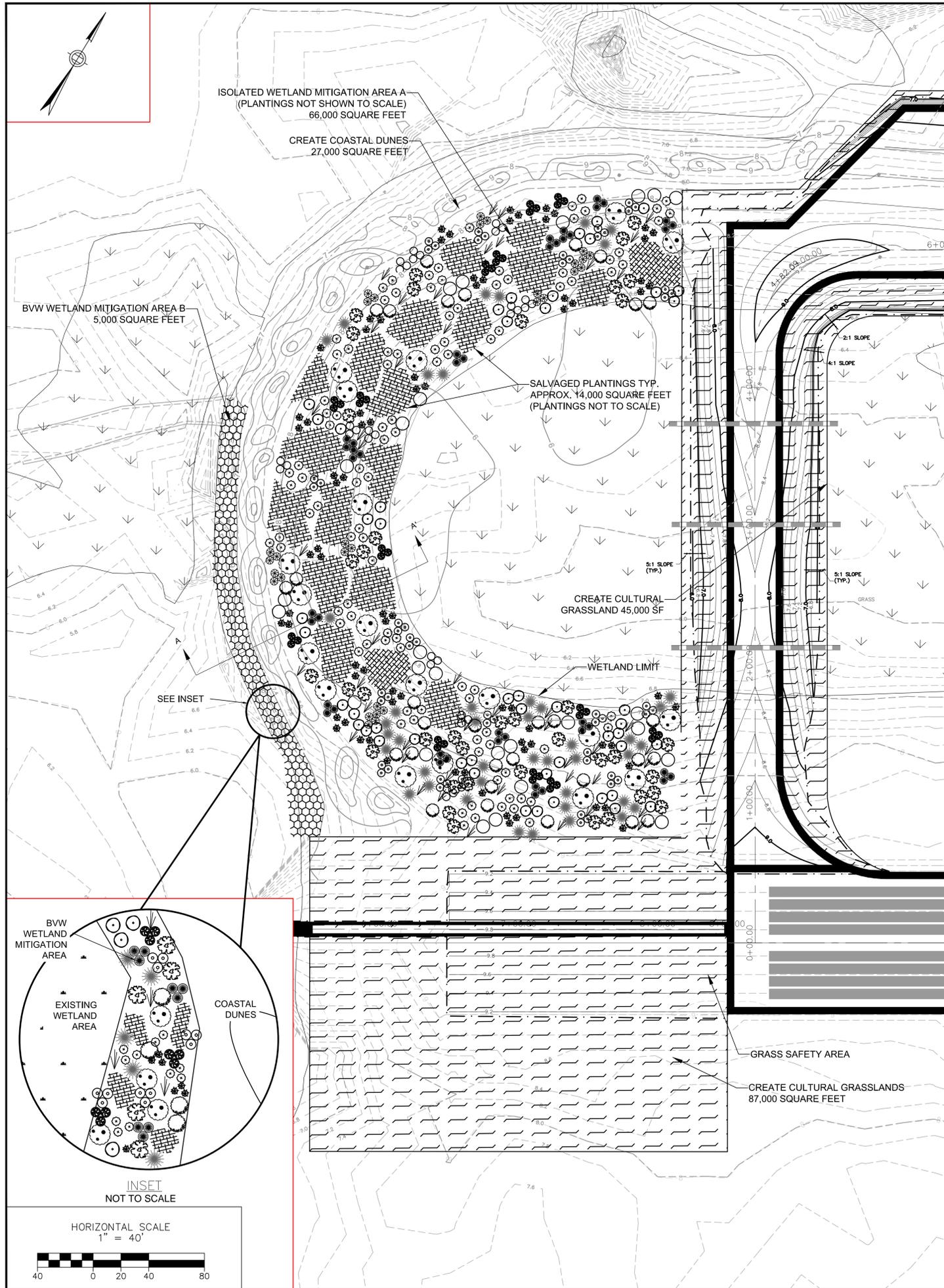
PROVINCETOWN MUNICIPAL AIRPORT
PROVINCETOWN, MASSACHUSETTS

**PROPOSED PHASE 1
GRADING AND DRAINAGE DETAILS 2**

JACOBS PROJ. NO.:
AIP NO. 3-25-0043-36-2013

DRAWING NO.

SHEET 11 OF 15



MITIGATION AREA PLANTINGS

Mitigation Area A - Isolated Vegetated Wetland

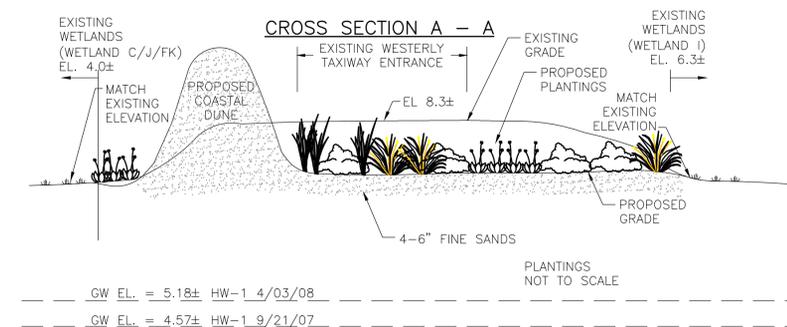
Symbol	No.	Species and Indicator Status	Size & Form	Size	Root	Planting Specifications
Shrub Species						
⊙	36	Highbush Blueberry (<i>Vaccinium corymbosum</i>) — FACW-	Med Sized Decid. Shrub (6-12 ft)	2-3 feet tall (min.)	CG	Planted in clusters; spaced approx. 5-6 ft. apart
⊙	48	Maleberry (<i>Lyonia ligustrina</i>) — FACW	Med Sized Decid. Shrub (6-12 ft)	2-3 feet tall (min.)	CG	Planted in clusters; spaced approx. 5-6 ft. apart
⊙	28	Arrowwood (<i>Viburnum dentatum</i>) — FAC	Med Sized Decid. Shrub (6-12 ft)	2-3 feet tall (min.)	CG	Planted in clusters; spaced approx. 5-6 ft. apart
⊙	44	Meadowsweet (<i>Spiraea latifolia</i>) — FAC+	Small Deciduous Shrub (2-4 ft)	18-24 inches tall (min.)	CG	Planted in clusters; spaced approx. 3-5 ft. apart
⊙	48	Steeplebush (<i>Spiraea tomentosa</i>) — FACW	Small Deciduous Shrub (2-4 ft)	18-24 inches tall (min.)	CG	Planted in clusters; spaced approx. 3-5 ft. apart
⊙	40	Bayberry (<i>Myrica pensylvanica</i>) — FAC	Med Sized Decid. Shrub (6-12 ft)	2-3 feet tall (min.)	CG	Planted in clusters; spaced approx. 5-10 ft. O.C.; Along upper elevations
⊙	52	Dwarf Huckleberry (<i>Gaylussacia dumosa</i>) — FAC	Small Deciduous Shrub (1-2 ft)	1 gal. container	CG	Planted in clusters; spaced approx. 5-6 ft. apart
⊙	38	sea myrtle (<i>Baccharis halimifolia</i>) — FACW	Med Sized Decid. Shrub (6-12 ft)	2-3 feet tall (min.)	CG	Planted in clusters; spaced approx. 5-6 ft. apart
Herbaceous Species						
⊙	80	Cinnamon Fern (<i>Osmunda cinnamomea</i>) — FACW	Tall Perennial Fern (up to 5 ft)	1 gal. container	CG	Planted in clusters; spaced approx. 18-24 in. O.C.; Along lower-mid elevations
⊙	40	Sensitive Fern (<i>Onoclea sensibilis</i>) — FACW	Perennial Fern (up to 3.5 ft)	1 gal. container	CG	Planted in clusters; spaced approx. 18-24 in. O.C.; Along lower-mid elevations
⊙	80	Royal Fern (<i>Osmunda regalis</i>) — OBL	Tall Perennial Fern (up to 5 ft)	1 gal. container	CG	Planted in clusters; spaced approx. 18-24 in. O.C.; Along lower-mid elevations
⊙	48	Switchgrass (<i>Panicum virgatum</i>) — FAC	bunch-forming grass	1 gal. container	CG	Planted in clusters; Spaced approx. 18 in. O.C.; planted along upper reaches
⊙	300	Woolgrass (<i>Scirpus cyperinus</i>) — OBL	bunch-forming grass	2-inch plugs	tubes	planted in masses, 12-18 inches O.C. (3x3 ft ² patches)
⊙	260	Soft Rush (<i>Juncus effusus</i>) — OBL	bunch-forming rush	2-inch plugs	tubes	planted in masses, 12-18 inches O.C. (3x3 ft ² patches)

MITIGATION AREA PLANTINGS

Mitigation Area B - Bordering Vegetated Wetland

Symbol	No.	Species and Indicator Status	Size & Form	Size	Root	Planting Specifications
Shrub Species						
⊙	6	Maleberry (<i>Lyonia ligustrina</i>) — FACW	Med Sized Decid. Shrub (6-12 ft)	2-3 feet tall (min.)	CG	Planted in clusters; spaced approx. 5-6 ft. apart
⊙	6	Meadowsweet (<i>Spiraea latifolia</i>) — FAC+	Small Deciduous Shrub (2-4 ft)	18-24 inches tall (min.)	CG	Planted in clusters; spaced approx. 3-5 ft. apart
⊙	8	Bayberry (<i>Myrica pensylvanica</i>) — FAC	Med Sized Decid. Shrub (6-12 ft)	2-3 feet tall (min.)	CG	Planted in clusters; spaced approx. 5-10 ft. O.C.; Along upper elevations
⊙	6	Sea Myrtle (<i>Baccharis halimifolia</i>) — FACW	Med Sized Decid. Shrub (6-12 ft)	2-3 feet tall (min.)	CG	Planted in clusters; spaced approx. 5-6 ft. apart
Herbaceous Species						
⊙	30	Switchgrass (<i>Panicum virgatum</i>) — FAC	bunch-forming grass	1 gal. container	CG	Planted in clusters; Spaced approx. 18 in. O.C.; planted along upper reaches
⊙	36	Woolgrass (<i>Scirpus cyperinus</i>) — OBL	bunch-forming grass	2-inch plugs	tubes	planted in masses, 12-18 inches O.C. (3x3 ft ² patches)
⊙	36	Soft Rush (<i>Juncus effusus</i>) — OBL	bunch-forming rush	2-inch plugs	tubes	planted in masses, 12-18 inches O.C. (3x3 ft ² patches)

NOTE: SEE SHEET 13 FOR COASTAL DUNE PLANTING SCHEDULE



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PROVINCETOWN MUNICIPAL AIRPORT
PROVINCETOWN, MASSACHUSETTS

WETLAND MITIGATION - WEST END TAXIWAY

JACOBS PROJ. NO.:
AIP NO. 3-25-0043-XX-2015

DRAWING NO.
SHEET 12 OF 15

SCALE: AS NOTED

DATE: MAY 2015

DESIGNED BY:

DRAWN BY:

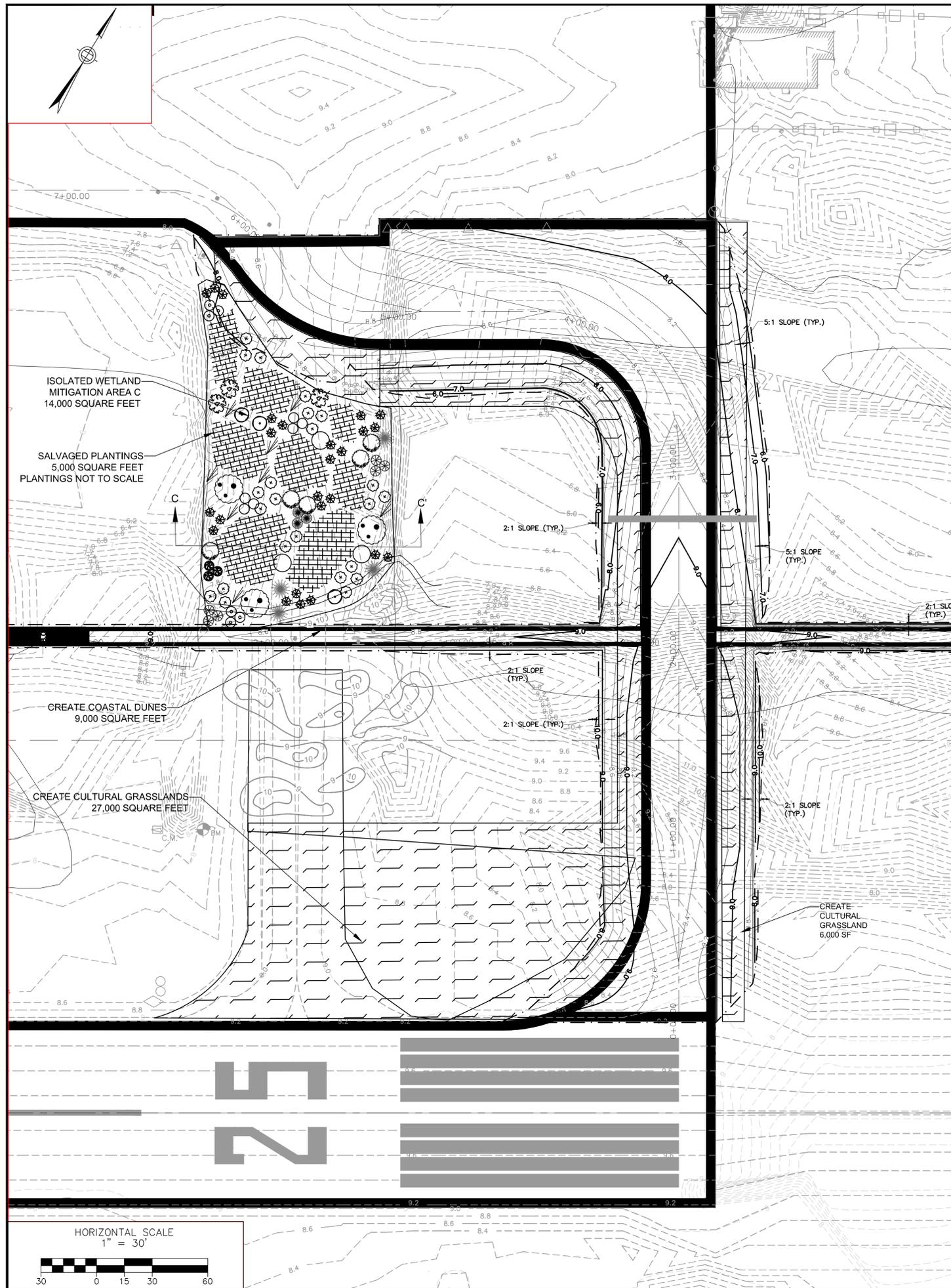
CHECKED BY:

REVISIONS

REV. NO.	DATE	DESCRIPTION

BY:

Horsley Witten Group, Inc.
343 CONGRESS STREET
BOSTON, MA 02210
Tel 617-242-9222
Fax 617-242-9624
www.horsleywitten.com
www.jacobs.com



MITIGATION AREA PLANTINGS

Mitigation Area C - Isolated Vegetated Wetland

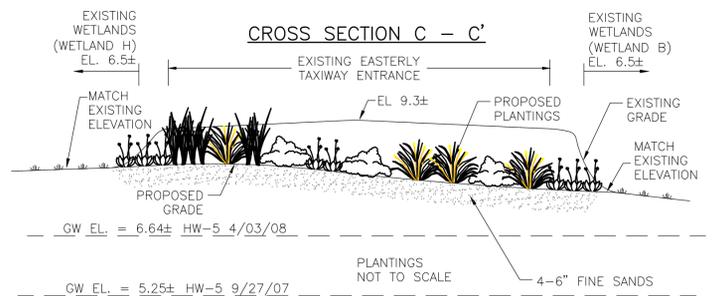
Symbol	No.	Species and Indicator Status	Size & Form	Size	Root	Planting Specifications
Shrub Species						
⊙	12	Highbush Blueberry (<i>Vaccinium corymbosum</i>) — FACW-	Med Sized Decid. Shrub (6-12 ft)	2-3 feet tall (min.)	CG	Planted in clusters; spaced approx. 5-6 ft. apart
⊙	8	Maleberry (<i>Lyonia ligustrina</i>) — FACW	Med Sized Decid. Shrub (6-12 ft)	2-3 feet tall (min.)	CG	Planted in clusters; spaced approx. 5-6 ft. apart
⊙	12	Meadowsweet (<i>Spiraea latifolia</i>) — FAC+	Small Deciduous Shrub (2-4 ft)	18-24 inches tall (min.)	CG	Planted in clusters; spaced approx. 3-5 ft. apart
⊙	12	Steeplebush (<i>Spiraea tomentosa</i>) — FACW	Small Deciduous Shrub (2-4 ft)	18-24 inches tall (min.)	CG	Planted in clusters; spaced approx. 3-5 ft. apart
⊙	12	Bayberry (<i>Myrica pensylvanica</i>) — FAC	Med Sized Decid. Shrub (6-12 ft)	2-3 feet tall (min.)	CG	Planted in clusters; spaced approx. 5-10 ft. O.C.; Along upper elevations
⊙	6	Pussy Willow (<i>Salix discolor</i>) — FACW	Med Sized Decid. Shrub (6-12 ft)	3-4 feet tall (min.)	CG	Planted singly; spaced approx. 10-12 ft. apart; Along lower slopes
Herbaceous Species						
⊙	24	Cinnamon Fern (<i>Osmunda cinnamomea</i>) — FACW	Tall Perennial Fern (up to 5 ft)	1 gal. container	CG	Planted in clusters; spaced approx. 18-24 in. O.C.; Along lower-mid elevations
⊙	20	Sensitive Fern (<i>Onoclea sensibilis</i>) — FACW	Perennial Fern (up to 3.5 ft)	1 gal. container	CG	Planted in clusters; spaced approx. 18-24 in. O.C.; Along lower-mid elevations
⊙	36	Switchgrass (<i>Panicum virgatum</i>) — FAC	bunch-forming grass	1 gal. container	CG	Planted in clusters; Spaced approx. 18 in. O.C.; planted along upper reaches
⊙	80	Woolgrass (<i>Scirpus cyperinus</i>) — OBL	bunch-forming grass	2-inch plugs		planted in masses, 12-18 inches O.C. (3x3 ft ² patches)
⊙	96	Soft Rush (<i>Juncus effusus</i>) — OBL	bunch-forming rush	2-inch plugs		planted in masses, 12-18 inches O.C. (3x3 ft ² patches)

MITIGATION AREA PLANTINGS

Coastal Dune Mitigation Areas

No.	Species and Indicator Status	Size & Form	Size	Root	Planting Specifications
Shrub Species					
36	Bayberry (<i>Myrica pensylvanica</i>) — FAC	Med Sized Decid. Shrub (6-12 ft)	18-24 inches tall (min.)	CG	Planted in clusters; spaced approx. 5-10 ft. O.C.; Along lower reaches to mid-slope of dune
36	Beach Plum (<i>Prunus maritima</i>) — UPL	small-med Decid. Shrub (4-6 ft)	18-24 inches tall (min.)	CG	Planted in clusters; spaced approx. 5-10 ft. O.C.; Along lower reaches to mid-slope of dune
Herbaceous Species					
15,000	American beachgrass (<i>Ammophila breviligulata</i>) — FACU-	grass	bare root plugs	CG	Planted in clusters; Spaced approx. 12-18 in. O.C. in grid pattern
120	Beach Pea (<i>Lathyrus japonicus</i>) — FACU-	perennial herb	1 gal. container	CG	planted in clusters of 3-5, 18-24 inches O.C.
60	Beach Heather (<i>Hudsonia tomentosa</i>) — NI	low-growing subshrub, perennial	1 gal. container	CG	planted in clusters of 3-5, 18-24 inches O.C.

NOTE: MEASURED GROUND WATER ELEVATIONS HAVE BEEN ADJUSTED TO BE CONSISTENT WITH AND RELATIVE TO THE ASSUMED BENCHMARK ELEVATIONS FOR THE AIRPORT.



NOTE: MEASURED GROUND WATER ELEVATIONS HAVE BEEN ADJUSTED TO BE CONSISTENT WITH AND RELATIVE TO THE ASSUMED BENCHMARK ELEVATIONS FOR THE AIRPORT.

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 Environmental Solutions
 www.horsleywitten.com
 90 Route 6A
 Sandwich, MA 02563
 508-833-8600 voice
 508-833-3700 fax

PROVINCETOWN MUNICIPAL AIRPORT
 PROVINCETOWN, MASSACHUSETTS

WETLAND MITIGATION—EAST END TAXIWAY

JACOBS PROJ. NO.:
 AIP NO. 3-25-0043-XX-2015

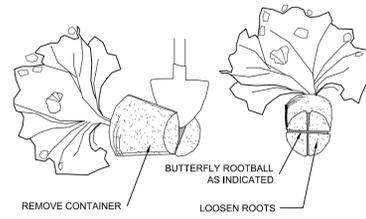
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SHEET 13 OF 15

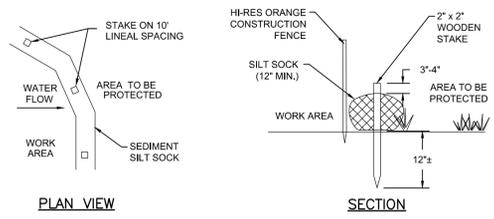
REVISIONS

REV. NO.	DATE	DESCRIPTION

DESIGNED BY: []
 CHECKED BY: []
 DRAWN BY: []
 DATE: MAY 2015
 SCALE: AS NOTED

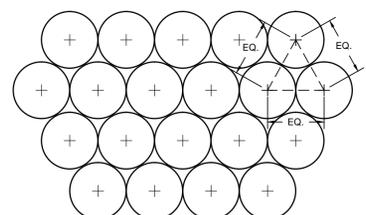


CONTAINER PLANT ROOTBALL TREATMENT
NOT TO SCALE

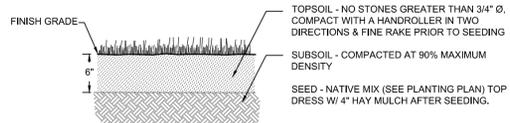


TYPICAL SEDIMENT SILT SOCK DETAIL
NOT TO SCALE

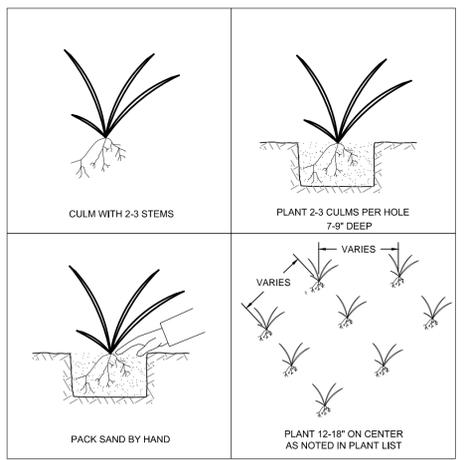
- NOTES:
- NO DISTURBANCE BEYOND SILT SOCK.
 - ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.
 - SEDIMENT SILT SOCK TO BE FILLED WITH COMPOST AND MEET APPLICATION REQUIREMENTS.
 - COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.



PLANTING SPACING DETAIL
NOT TO SCALE

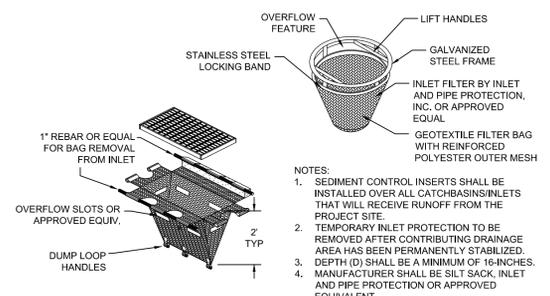


LOAM AND SEED DETAIL
NOT TO SCALE



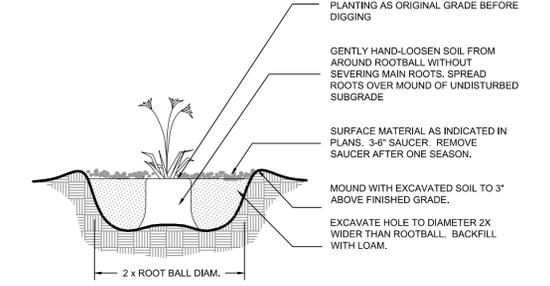
BEACH GRASS PLANTING DETAIL
NOT TO SCALE

- NOTES:
- ONLY PLANT FROM OCTOBER 1 TO APRIL 30 WHICH BEACH GRASS IS DORMANT
 - STORE CULMS IN MOIST SHADE

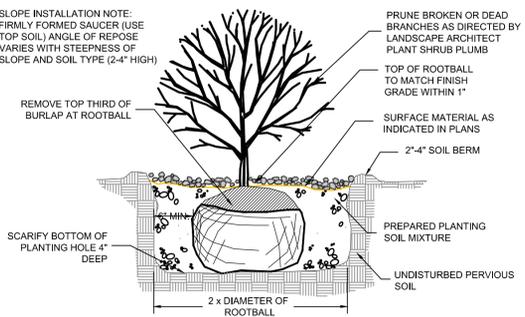


TEMPORARY CATCHBASIN INSERT
NOT TO SCALE

- NOTES:
- SEDIMENT CONTROL INSERTS SHALL BE INSTALLED OVER ALL CATCHBASIN INLETS THAT WILL RECEIVE RUNOFF FROM THE PROJECT SITE.
 - TEMPORARY INLET PROTECTION TO BE REMOVED AFTER CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
 - DEPTH (D) SHALL BE A MINIMUM OF 16-INCHES.
 - MANUFACTURER SHALL BE SILT SOCK, INLET AND PIPE PROTECTION OR APPROVED EQUIVALENT.



PERENNIAL PLANTING DETAIL
NOT TO SCALE



SHRUB PLANTING DETAIL
NOT TO SCALE

GENERAL PLANTING NOTES:

- THE FOLLOWING NOTES ARE PROVIDED AS GENERAL PLANTING GUIDELINES ONLY. THOROUGHLY REVIEW THE PROJECT SPECIFICATIONS FOR ALL LANDSCAPE REQUIREMENTS PRIOR TO THE COMMENCEMENT OF ANY LANDSCAPE WORK. SUBMIT IN WRITING TO THE LANDSCAPE ARCHITECT ANY QUESTIONS OR CLARIFICATIONS REQUIRED AT A MINIMUM OF 30 DAYS PRIOR TO ORDERING ANY MATERIALS OR BEGINNING ANY LANDSCAPE CONSTRUCTION.
- SUBMIT TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL ALL REQUIRED LANDSCAPE SUBMITTALS AS DESCRIBED IN THE SPECIFICATIONS INCLUDING A PLANT LIST WITH PLANT SIZE AND QUANTITIES TO BE ORDERED PRIOR TO DELIVERY TO THE PROJECT SITE.
- FURNISH AND INSTALL ALL PLANTS AS SHOWN ON THE DRAWINGS AND IN THE SIZE AND QUANTITIES SPECIFIED ON THE PLANTING SCHEDULE. PLANT SUBSTITUTION SELECTION MUST BE APPROVED BY BIOLOGIST OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL PLANTS TO COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION INC.
- PLANTS TO BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS. USE HEALTHY NURSERY GROWN PLANTS, FREE OF DISEASE, INSECTS, AND PESTS. EGGS OR LARVAE, AND HAVE A WELL DEVELOPED ROOT SYSTEM.
- INSTALL PLANTS WITHIN ONE (1) WEEK OF PURCHASE. IF PLANTS ARE TO BE STORED AT THE SITE PRIOR TO PLANTING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THEY ARE PROPERLY MAINTAINED, WATERED, AND REMAIN HEALTHY.
- PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT. SUBMIT TO THE LANDSCAPE ARCHITECT IN WRITING THE PROPOSED PLANTING SCHEDULE. OBTAIN APPROVAL OF PLANTING SCHEDULE FROM THE LANDSCAPE ARCHITECT PRIOR TO PERFORMING ANY WORK.
- SEASONS FOR PLANTING:

SPRING:	DECIDUOUS:	APRIL 1 TO JUNE 15
	EVERGREEN:	APRIL 1 TO JUNE 15
	PERENNIALS:	APRIL 15 TO JUNE 1
	GROUNDCOVERS:	APRIL 15 TO JUNE 1
FALL:	DECIDUOUS:	SEPTEMBER 15 TO NOVEMBER 15
	EVERGREEN:	SEPTEMBER 15 TO NOVEMBER 15
	PERENNIALS:	SEPTEMBER 15 TO NOVEMBER 15
	GROUNDCOVERS:	SEPTEMBER 15 TO NOVEMBER 15
- BEACH GRASS CULMS: PLANTS WHILE DORMANT FROM OCTOBER 1ST THROUGH APRIL 30TH

GENERAL SEEDING NOTES:

- SEND A REPRESENTATIVE SAMPLE OF THE TOPSOIL TO A TESTING LABORATORY FOR STANDARD SOIL ANALYSIS AS DESCRIBED IN THE SPECIFICATIONS. SUBMIT TO THE LANDSCAPE ARCHITECT AND ENGINEER TEST RESULTS WITH RECOMMENDED SOIL TREATMENTS TO PROMOTE PLANT AND GRASS GROWTH. CORRECT DEFICIENCIES IN THE LOAM AND STOCKPILED TOPSOIL AS DIRECTED BY THE TESTING AGENCY.
- ALL AREAS THAT ARE DISTURBED AND/OR GRADED DURING CONSTRUCTION ARE TO BE BROUGHT TO FINISHED GRADE WITH AT LEAST 6" MINIMUM DEPTH OF GOOD QUALITY LOAM AND SEEDED WITH A QUICK GERMINATING GRASS SEED SUCH AS NEW ENGLAND EROSION CONTROL RESTORATION MIX OR AS SPECIFIED ON THE PLANS.
- PRIOR TO THE PLACEMENT OF TOP SOIL, LOOSEN THE SUBGRADE OF ALL PROPOSED SEEDED AREAS TO A DEPTH OF 6" AND RAKE TO REMOVE STONES LARGER THAN 1 INCH, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEIOUS MATTER AND LEGALLY DISPOSE TO AN OFF SITE LOCATION.
- DO NOT SPREAD TOPSOIL IF THE SUBGRADE IS FROZEN, EXCESSIVELY WET, COMPACTED OR NOT PROPERLY PREPARED PER THE NOTES AND SPECIFICATIONS.

WATERING NOTES:

- PROVIDE PROPER PLANT CARE, MAINTENANCE AND WATERING ON SITE UNTIL SUCH TIME AS THE LANDSCAPING IS ACCEPTED BY THE PROPERTY OWNER AS SATISFACTORY PER THE SPECIFICATIONS OR AS DETERMINED BY ANY WRITTEN AGREEMENTS BETWEEN THE CONTRACTOR AND PROPERTY OWNER.
- ESTABLISH AN APPROPRIATE WATERING SCHEDULE FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND PROVIDE IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. ADHERE TO THE APPROVED SCHEDULE UNTIL PLANTS ARE FULLY ESTABLISHED.

REVISIONS	
REV. NO.	DESCRIPTION

Horsley Witten Group, Inc.
343 Congress Street
Boston, MA 02210
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Fax 617-242-9624
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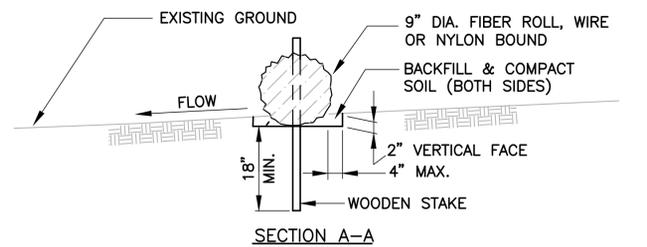
JACOBS
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PROVINCETOWN MUNICIPAL AIRPORT
PROVINCETOWN, MASSACHUSETTS

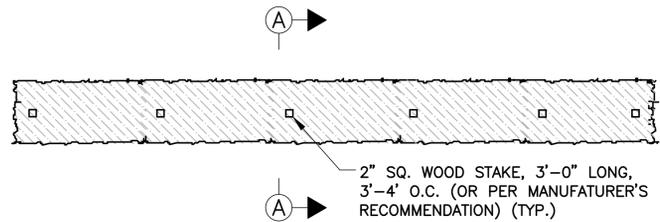
MITIGATION AREA DETAILS

JACOBS PROJ. NO.:
AIP NO. 3-25-0043-XX-2015

DRAWING NO.



SECTION A-A



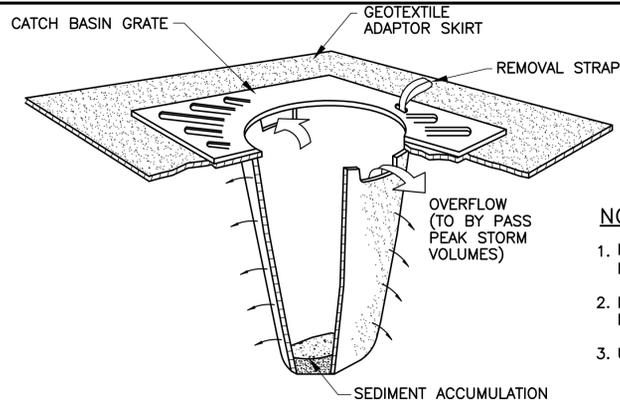
PLAN

NOTE

1. AREAS DISTURBED BY EROSION BARRIERS SHALL BE RESTORED AND STABILIZED AFTER REMOVAL TO THE SATISFACTION OF THE ENGINEER AND AIRPORT.

STRAW FIBER ROLL DETAIL

NOT TO SCALE



DRAIN INLET PROTECTION

NOT TO SCALE

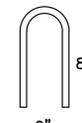
DEWATERING SEDIMENT CONTROL NOTES:

1. ALL DISCHARGE DEWATERING SHALL BE IN ACCORDANCE WITH CONSERVATION ORDER OF CONDITION, OR AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER, INSTALL CATCH BASIN PROTECTION AND FIBER ROLL EROSION CONTROL MEASURES.
2. THE CONTRACTOR SHALL ANTICIPATE DEWATERING ALL TRENCHES AND EXCAVATIONS. CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, EROSION CONTROL, MATERIAL AND INCIDENTALS NECESSARY FOR DEWATERING. DEWATERING SHALL NOT BE SEPARATELY MEASURED, BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS.
3. ADVISE THE OWNER IF ANY CONTAMINATED WATER IS FOUND. PROCESS CONTAMINATED WATER IN ACCORDANCE WITH GROUNDWATER MANAGEMENT AND HEALTH AND SAFETY PLAN.

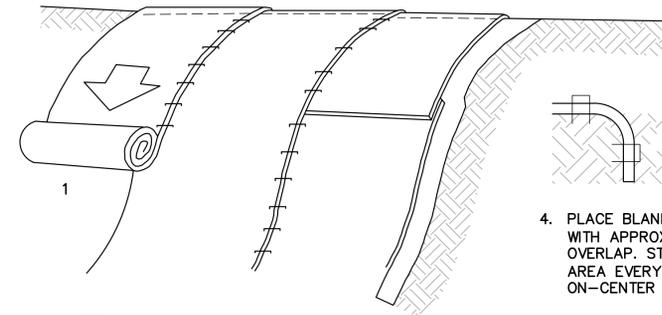
NOTES

1. INSERT TO BE EMPTIED IN AN APPROVED MANNER WHEN IT IS 1/2 FULL OF SEDIMENT.
2. INSPECT INSERT AFTER ALL RAINFALL EVENTS, REPAIR AND MAINTAIN AS REQUIRED.
3. USE AT ALL EXISTING CATCH BASINS.

NO. 11 OR HEAVIER STEEL WIRE



WIRE STAPLE



NOTE:

INDIVIDUAL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

1. PREPARE SOIL BEFORE INSTALLING BLANKET, INCLUDING SUBGRADE, LOAM SEED AND A LIGHT APPLICATION OF MULCH

2. BEGIN AT THE TOP OF THE SLOPE WITH A 6" EDGE OF THE BLANKET TUCKED AND STAPLED INTO THE LOAM

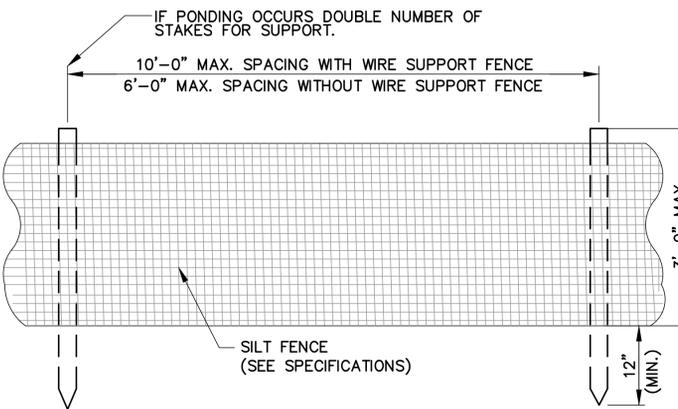
3. OVERLAP EDGE OF PARALLEL BLANKETS APPROXIMATELY 2" AND STAPLE EVERY 12"

4. PLACE BLANKETS END-OVER-END WITH APPROXIMATELY 6" OF OVERLAP. STAPLE OVERLAPPED AREA EVERY 12" AND 18-24" ON-CENTER THROUGHOUT

5. ANCHOR TERMINAL END OF BLANKET IN 6" TRENCH, STAPLE AND BACKFILL

EROSION CONTROL BLANKET - ON SLOPES

NOT TO SCALE



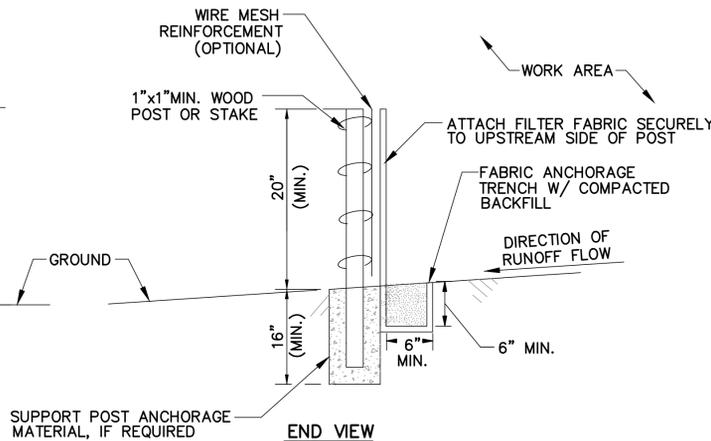
ELEVATION VIEW

SILT FENCE NOTES:

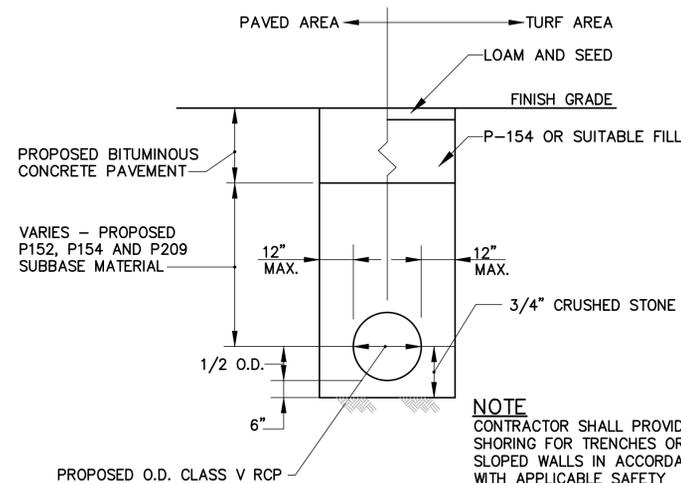
1. SILT FENCE SHALL BE INSTALLED BEFORE ANY EXCAVATION OR OTHER WORK BEGINS. SILT FENCE SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON DRAWINGS.
2. PRE-FABRICATED SILT FENCE MUST BE ASSEMBLED IN THE FIELD ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. WIRE MESH REINFORCEMENT AND/OR CLOSER POST SPACING MAY BE ORDERED BY THE ENGINEER IN AREAS WHERE HIGH RUNOFF VOLUMES ARE ANTICIPATED, OR IN LOW SPOTS WHERE SEDIMENT WILL COLLECT.
3. INSPECT AND REPAIR FENCE WEEKLY AND AFTER EACH STORM EVENT OF 1/8" OR GREATER OF PRECIPITATION AND REMOVE SEDIMENT WHEN NECESSARY. (9" MAXIMUM STORAGE HEIGHT)
4. IN ADDITION, MAINTENANCE OF SILT FENCE SHALL BE AS NEEDED AND AS ORDERED BY THE ENGINEER. MATERIALS WILL BE REMOVED WHEN BULGES DEVELOP AND THE FENCE REPLACED AS NECESSARY. REMOVED MATERIALS SHALL NOT BE DISCARDED NEAR WETLANDS OR WATERCOURSES AND SHALL BE REMOVED FROM THE JOB SITE. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT CAN BE PERMANENTLY STABILIZED.
5. WOVEN WIRE FENCE SHALL BE SECURELY FASTENED TO POSTS/STAKES WITH WIRE TIES OR STAPLES AT TOP, MIDPOINT AND BOTTOM AT A MINIMUM.
6. MAINTENANCE AND REMOVAL SHALL NOT BE PAID FOR SEPARATELY BUT RATHER WILL BE CONSIDERED INCIDENTAL TO THE INITIAL INSTALLATION.

SILT FENCE DETAIL

NOT TO SCALE

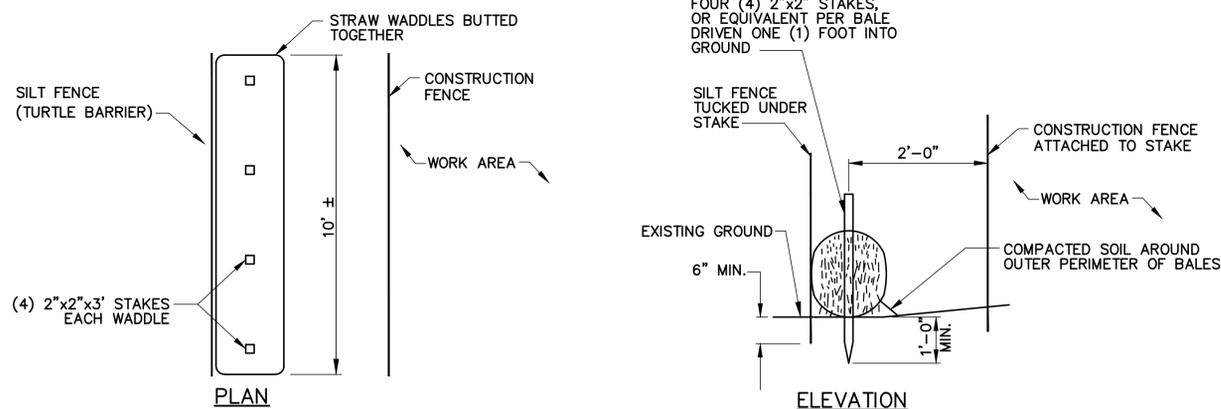


END VIEW



DRAIN PIPE TRENCH DETAIL

NOT TO SCALE



PLAN

ELEVATION

SILT FENCE, STRAW WADDLE & CONSTRUCTION FENCE DETAIL

(EROSION CONTROL AND TURTLE BARRIER FENCE)

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION

CHECKED BY	DATE
SHD	MAY 2015

DESIGNED BY	DATE
SHD	MAY 2015

SCALE	DATE
AS NOTED	MAY 2015

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PROVINCETOWN MUNICIPAL AIRPORT PROVINCETOWN, MASSACHUSETTS	EROSION CONTROL AND SEDIMENTATION DETAILS

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DRAWING NO.

SHEET 15 OF 15
