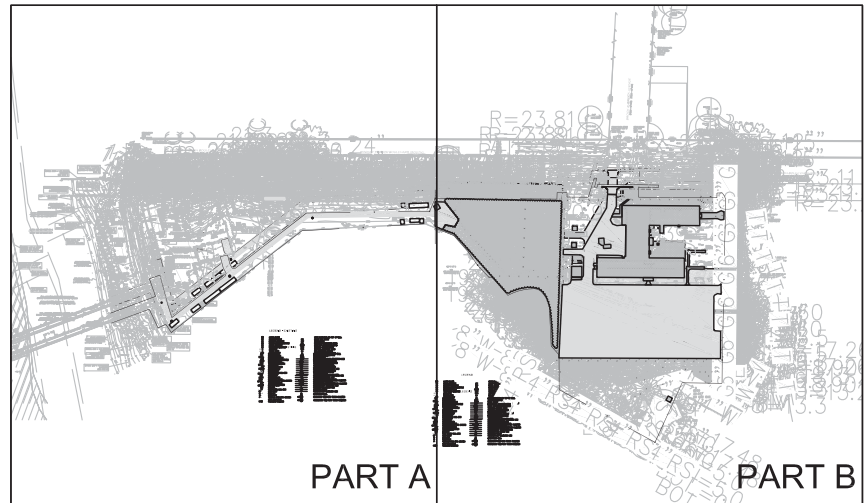


Project Number 11-D1

Notes:



### Revisions:

No.	Date	Description
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Construction Documents  
Scale: 1" = 20'-0"

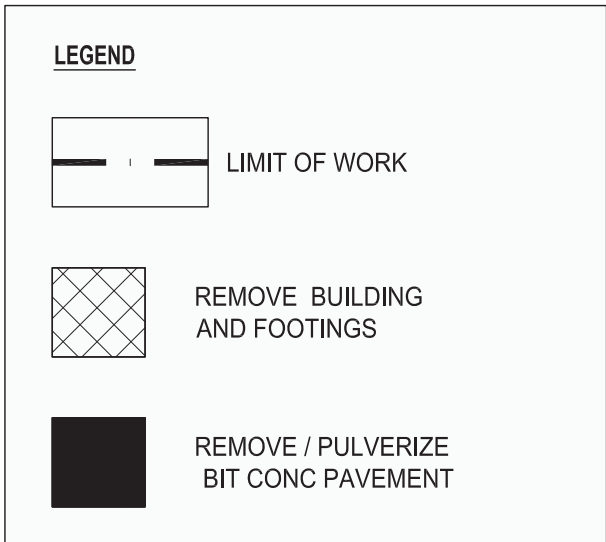
## L-1.1



1. THE PROPERTY LINE IS THE LIMIT-OF-WORK UNLESS OTHERWISE NOTED.
2. THE SM&ST 1 SITE IS TO BE SECURED AS TO ALLOW FOR DAILY STUDENT ACTIVITIES, REFER TO PHASING PLAN. THE SM&ST 2 SITE IS TO BE SECURED AT ALL TIMES DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL ERECT TEMPORARY CONSTRUCTION FENCING, SUITABLE SAFETY BARRIERS AND/OR WARNING DEVICES AT THE LIMIT OF CONSTRUCTION ACTIVITIES AS NOTED ON THE PLANS AND/OR AS DIRECTED BY THE ARCHITECT. SEE CIVIL DRAWINGS.
3. IN ACCORDANCE WITH MGL 62, SECTION 40, INCLUDING ALL AMENDMENTS, ALL CONTRACTORS SHALL BE SUBJECT TO THE APPLICABLE LOCAL, STATE AND GOVERNMENT AGENCIES IN WRITING PRIOR TO ANY EXCAVATION AND CUL DE SACS. (800-552-4844).
4. SEE CIVIL DRAWINGS FOR EROSION CONTROLS.
5. ALL AREAS OUTSIDE OF THE LIMIT-OF-WORK SHALL NOT BE DISTURBED IN ANY MANNER BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
6. ALL EXISTING FEATURES, NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURE DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ARCHITECT.
7. PRIOR TO ANY TREE CLEARING / REMOVAL OPERATIONS, THE CONTRACTOR SHALL OBTAIN VERIFICATION FROM THE ARCHITECT TO REMOVE ANY TREE OVER 10" CALIBER. ALL TREES TO REMAIN SHALL BE SUITABLY PROTECTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ARCHITECT.
8. ALL ITEMS CALLED FOR REMOVAL SHALL BE REMOVED TO FULL DEPTH INCLUDING ANY FOOTINGS, FOUNDATIONS AND OTHER APPURTENANCES, EXCEPT AS SPECIALLY NOTED OTHERWISE.
9. UNLESS SPECIFICALLY NOTED TO BE SAVED OR REUSED, ALL SITE FEATURES CALLED FOR REMOVAL SHALL BE TRANSPORTED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER AT AN ACCEPTABLE DISPOSAL SITE.
10. ALL EXCAVATIONS SHALL NOT BE LEFT OPEN AT THE END OF THE DAY UNLESS SPECIALLY AUTHORIZED BY THE ARCHITECT.
11. STRIP AND STOCKPILE EXISTING TOPSOIL FOR REUSE IN COMPLIANCE WITH THE SPECIFICATIONS.
12. REMOVE AND STOCKPILE ALL INFORMATIONAL SIGNAGE.
13. SEE CIVIL DRAWINGS FOR UTILITY DEMOLITION, ABANDONMENT AND PROTECTION.
14. SEE ELECTRICAL SITE PLAN FOR DEMOLITION OF ELECTRICAL ITEMS.
15. SEE SEAWATER SITE DRAWINGS FOR ADDITIONAL DEMOLITION.

LEGEND - EXISTING

⊖	CATCH BASIN				SPOT ELEVATION ON TOP OF WALL
⊖	DRAIN MANHOLE	CLF			CHAIN LINK FENCE
⊖	ELECTRIC MANHOLE	WDF			WOOD FENCE
⊖	MISCELLANEOUS MANHOLE	BB			BITUMINOUS CONCRETE BERM
⊖	SEWER MANHOLE	CCBB			CASE COD BITUMINUS BERM
⊖	TELEPHONE MANHOLE	VVC			VERTICAL GRANITE CURB
GG ⊖	GAS GATE	VCC			VERTICAL CONCRETE CURB
WG ⊖	WATER GATE	R=			RIM ELEVATION EQUALS
⊖	FIRE HYDRANT	I=			INVERT ELEVATION EQUALS
DS ⊖	DOWN SPOUT	PVC			POLYVINYL CHLORIDE PIPE
JP ⊖	UTILITY POLE	TRNS			TRANSFORMER
⊖	LIGHT POLE	— CATV			UNDERGROUND CABLE TELEVISION LINE
LB ⊖	LIGHT BOLLARD	— P			UNDERGROUND DRAIN LINE
LL ⊖	LANDSCAPE LIGHT	— E			UNDERGROUND ELECTRIC LINE
H ⊖	HAND HOLE	— G			UNDERGROUND GAS LINE
AC ⊖	AIR CONDITIONER	— S			UNDERGROUND SEWER LINE
EB ⊖	ELECTRIC BOX	— T			UNDERGROUND TELEPHONE LINE
MB ⊖	MAILBOX	— W			UNDERGROUND WATER LINE
FA ⊖	FIRE ALARM CALL BOX	— OHW			OVERHEAD WIRES
GP ⊖	GATE POST	— SW			UNDERGROUND SEAWATER LINE
B ⊖	BOLLARD				MONITORING WELL
S ⊖	SIGN POST				
P ⊖	VERTICAL PIPE INTO GROUND	12" 			DECIDUOUS TREE WITH TRUNK DIAMETER
CP ⊖	SPOT ELEVATION CONCRETE PLANTER	12" 			CONIFEROUS TREE WITH TRUNK DIAMETER





Umass Building Authority  
(UMBA)  
Project Number 11-D1

**Ellenzweig  
Architects | Planners**

**230 Congress Street  
Boston, MA 02110  
T 617 491-5575  
F 617 868-2318**

Lin Associates, Inc.  
Structural Engineer  
2001 Beacon Street,  
Brighton, MA 02135  
T 617 566-4216

BR+A Consulting Engineers  
MEP/IT/Security Engineer

10 Guest Street  
Boston, MA 02135  
T 617 254-0016  
F 617 924-9339

Fernandez & Associates  
Fire Protection Engineer

63 Larkin Road  
Byfield, MA 01922  
T 978 499-0172  
F 978 465-2371

TAG Engineering LLC P.O. Box 558  
Seawater Systems Consultant Woods Hole, MA 02545  
T 508 362-0561

Nitsch Engineering  
Civil Engineer

2 Center Plaza, No.43  
Boston, MA 02138  
T 617 338-0063

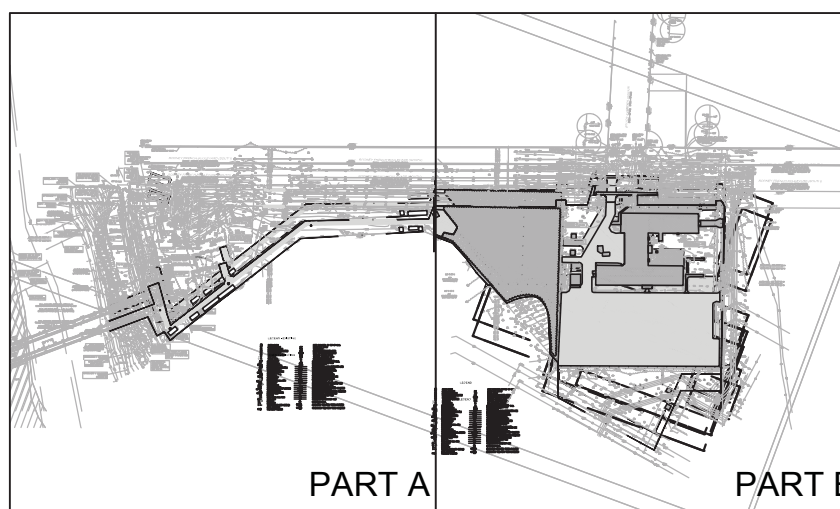
Horiuchi Solien  
Landscape Architect  
P.O. Box 914, 200 Ma  
Falmouth, MA 02541  
T 508 540-5320  
F 508 540-8651

GZA GeoEnvironmental  
Geo-Environmental

Pieszak Lighting Design  
Lighting Design

123 Davis Ave.  
Brookline, MA 02445  
T 617 335-8597

Notes:



## Keyplan

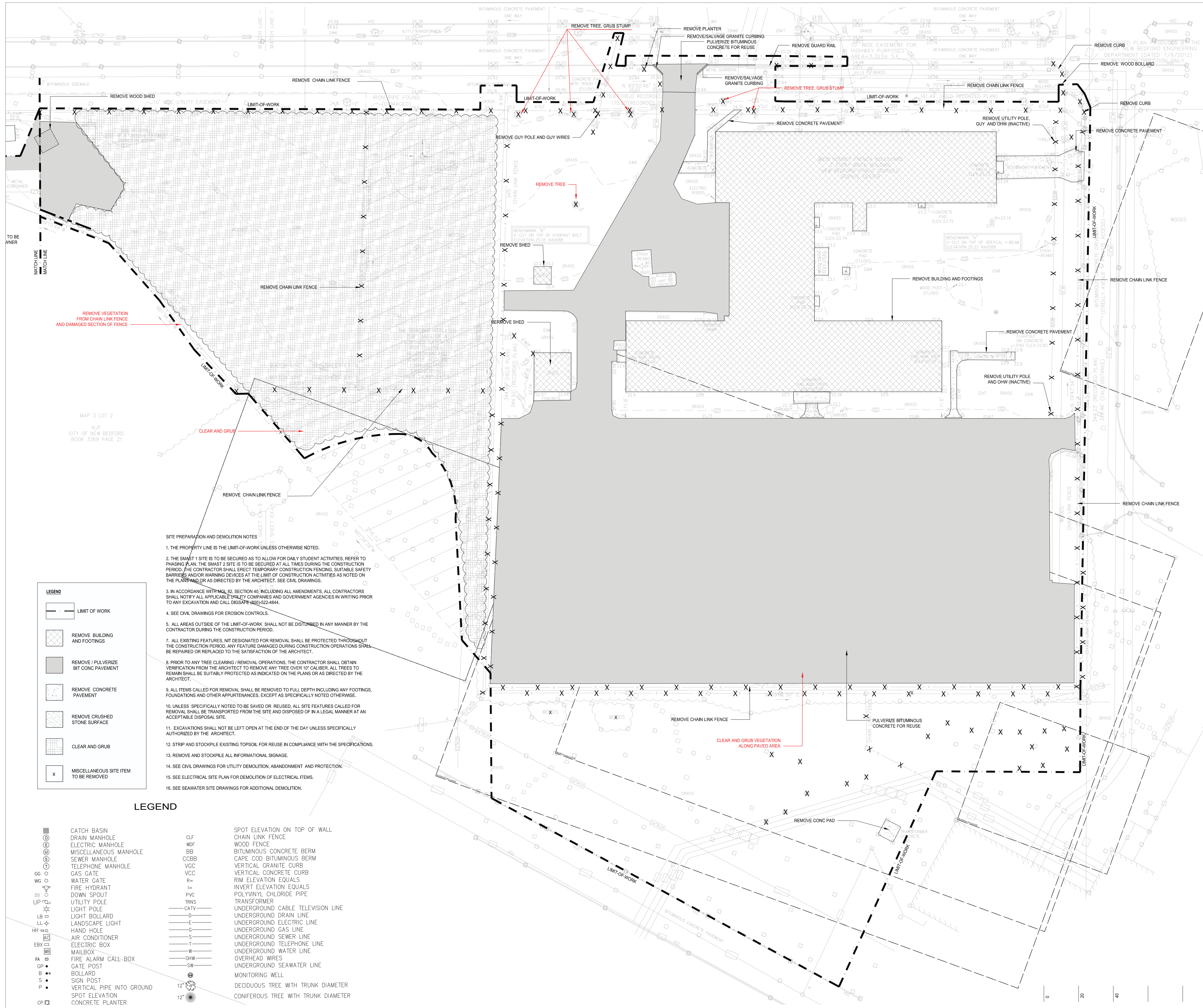
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Checked By: DMS  
Filename:  
Issue Date: 01/15/16

Revisions:		
No.	Date	Description

## Site Preparation Plan: Part B

Construction Documents  
Scale: 1" = 20'-0"

## L-1.2





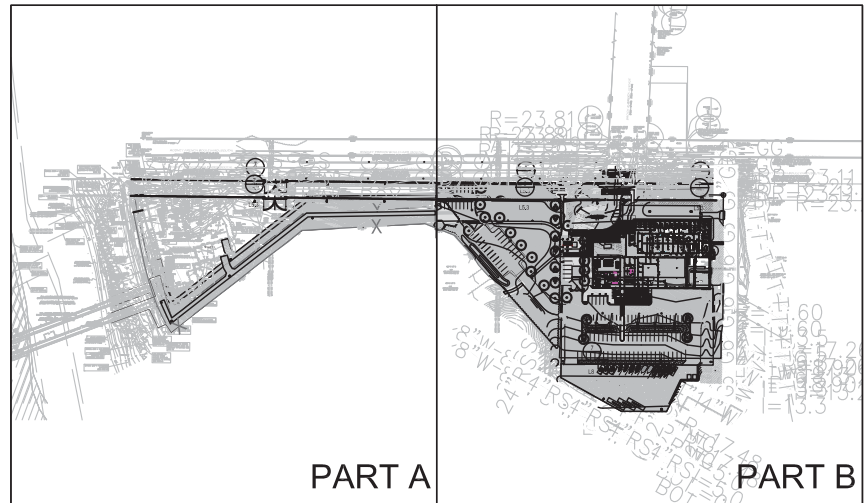
SMAST II, University of  
Massachusetts, Dartmouth

Umass Building Authority  
(UMBA)

Project Number 11-D1

Hill International, Inc. Owner's Project Manager	330 Congress Street, Boston, MA 02210 T 617 778-0900
Ellenzweig Architects   Planners	230 Congress Street Boston, MA 02110 T 617 491-5575 F 617 868-2318
Lin Associates, Inc. Structural Engineer	2001 Beacon Street, Brighton, MA 02135 T 617 924-4216
BR+A Consulting Engineers MEP/IT/Security Engineer	10 Guest Street Boston, MA 02135 T 617 254-0016 F 617 924-9339
Fernandez & Associates Fire Protection Engineer	63 Larkin Road Byfield, MA 01922 T 978 499-0172 F 978 465-2371
TAG Engineering LLC Seawater Systems Consultant	P.O. Box 558 Woods Hole, MA 02543 T 508 362-0561
Nitsch Engineering Civil Engineer	2 Center Plaza, No.430 Boston, MA 02138 T 617 338-0063
Horuchi Solien Landscape Architect	P.O. Box 914, 200 Main St. Falmouth, MA 02541 T 508 540-5320 F 508 540-8651
GZA GeoEnvironmental Geo-Environmental	133 Federal St. Boston, MA 02110 T 617 963-1000 F 617 4482-6868
Pieszak Lighting Design Lighting Design	123 Davis Ave. Brookline, MA 02445 T 617 335-8597

Notes:



Keyplan

Project Number: 32106  
Drawing By: JAM  
Checked By: DMS  
Filename:  
Issue Date: 01/15/16

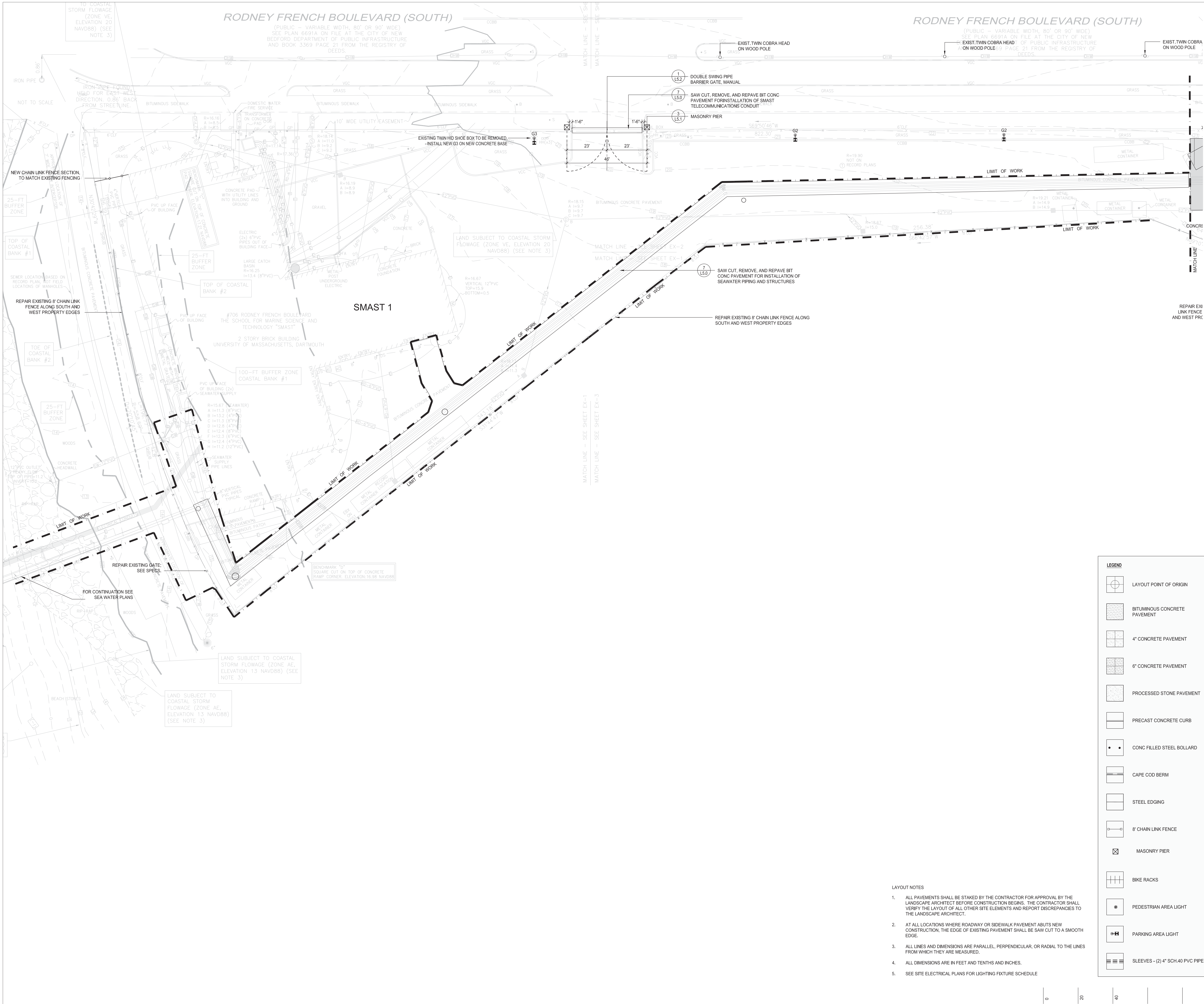
Revisions:

No.	Date	Description
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Layout Plan: Part A

Construction Documents  
Scale: 1" = 20'-0"

L-2.1





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Hill International, Inc.  
Owner's Project Manager  
330 Congress Street,  
Boston, MA 02210  
T 617 778-0900

Ellenzweig  
Architects | Planners  
230 Congress Street  
Boston, MA 02110  
T 617 491-5575  
F 617 868-2318

Lin Associates, Inc.  
Structural Engineer  
2001 Beacon Street,  
Brighton, MA 02135  
T 617 566-4216

BR+A Consulting Engineers  
MEP/IT/Security Engineer  
10 Guest Street  
Boston, MA 02135  
T 617 254-0016  
F 617 924-9339

Fernandez & Associates  
Fire Protection Engineer  
63 Larkin Road  
Byfield, MA 01922  
T 978 499-0172  
F 978 465-2371

TAG Engineering LLC  
Seawater Systems Consultant  
P.O. Box 558  
Woods Hole, MA 02543  
T 508 362-0561

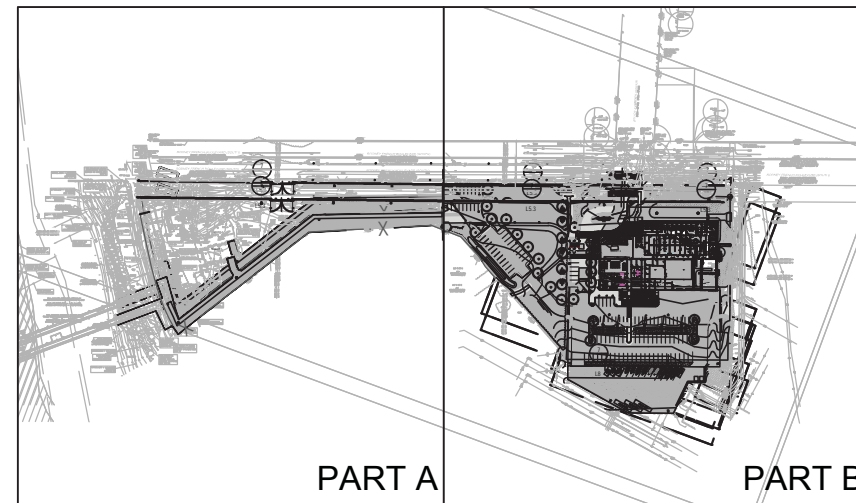
Nitsch Engineering  
Civil Engineer  
2 Center Plaza, No.430  
Boston, MA 02138  
T 617 338-0063

Horiuchi Solien  
Landscape Architect  
P.O. Box 914, 200 Main St.  
Falmouth, MA 02541  
T 508 540-5320  
F 508 540-8651

GZA GeoEnvironmental  
Geo-Environmental  
133 Federal St.  
Boston, MA 02110  
T 617 963-1000  
F 617 4482-6868

Pieszak Lighting Design  
Lighting Design  
123 Davis Ave.  
Brookline, MA 02445  
T 617 335-8597

Notes:



Keyplan

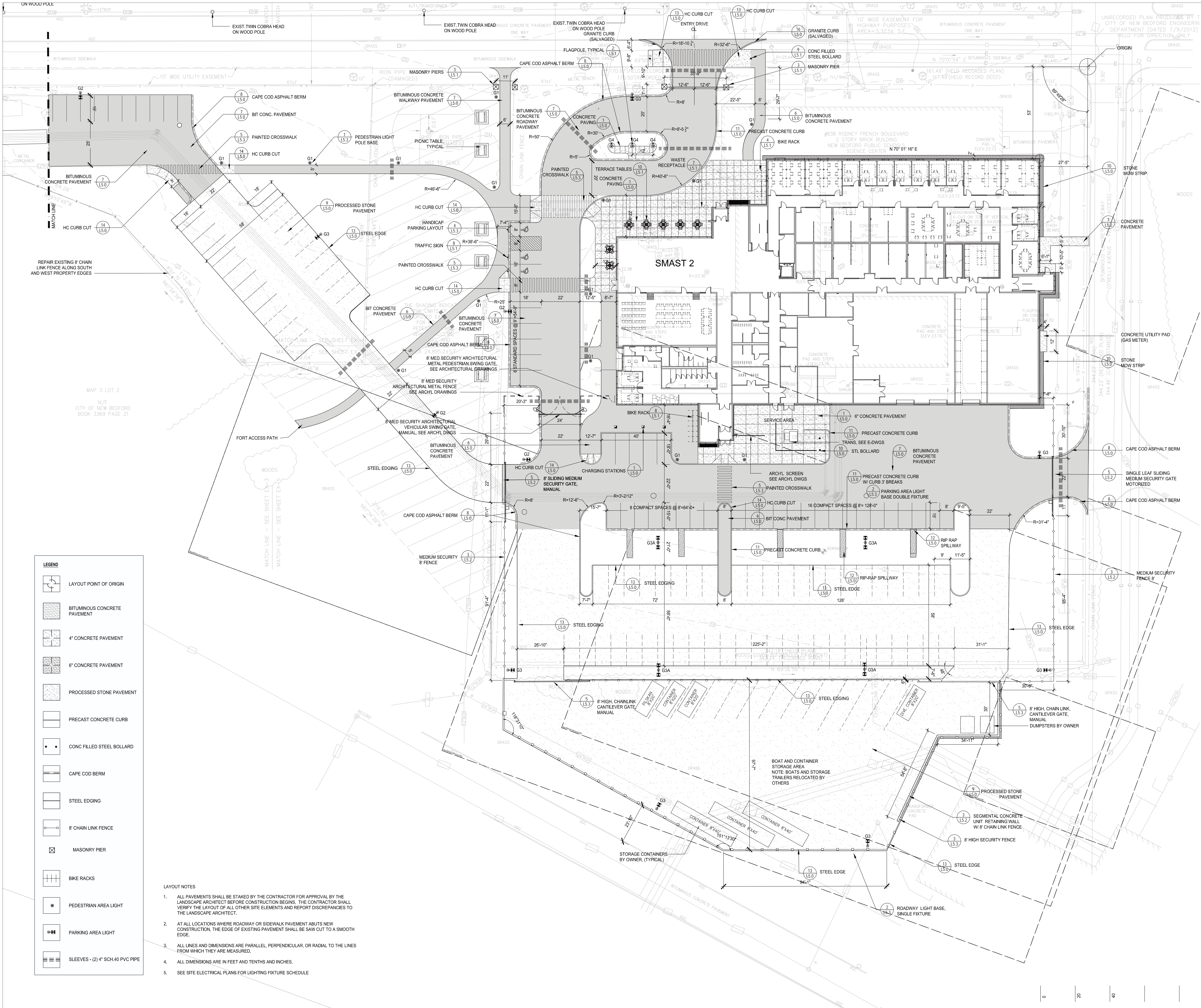
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Checked By: DMS  
Filename:  
Issue Date: 01/15/16

Revisions:  
No. Date Description

Layout Plan: Part B

Construction Documents  
Scale: 1" = 20'-0"

L-2.2

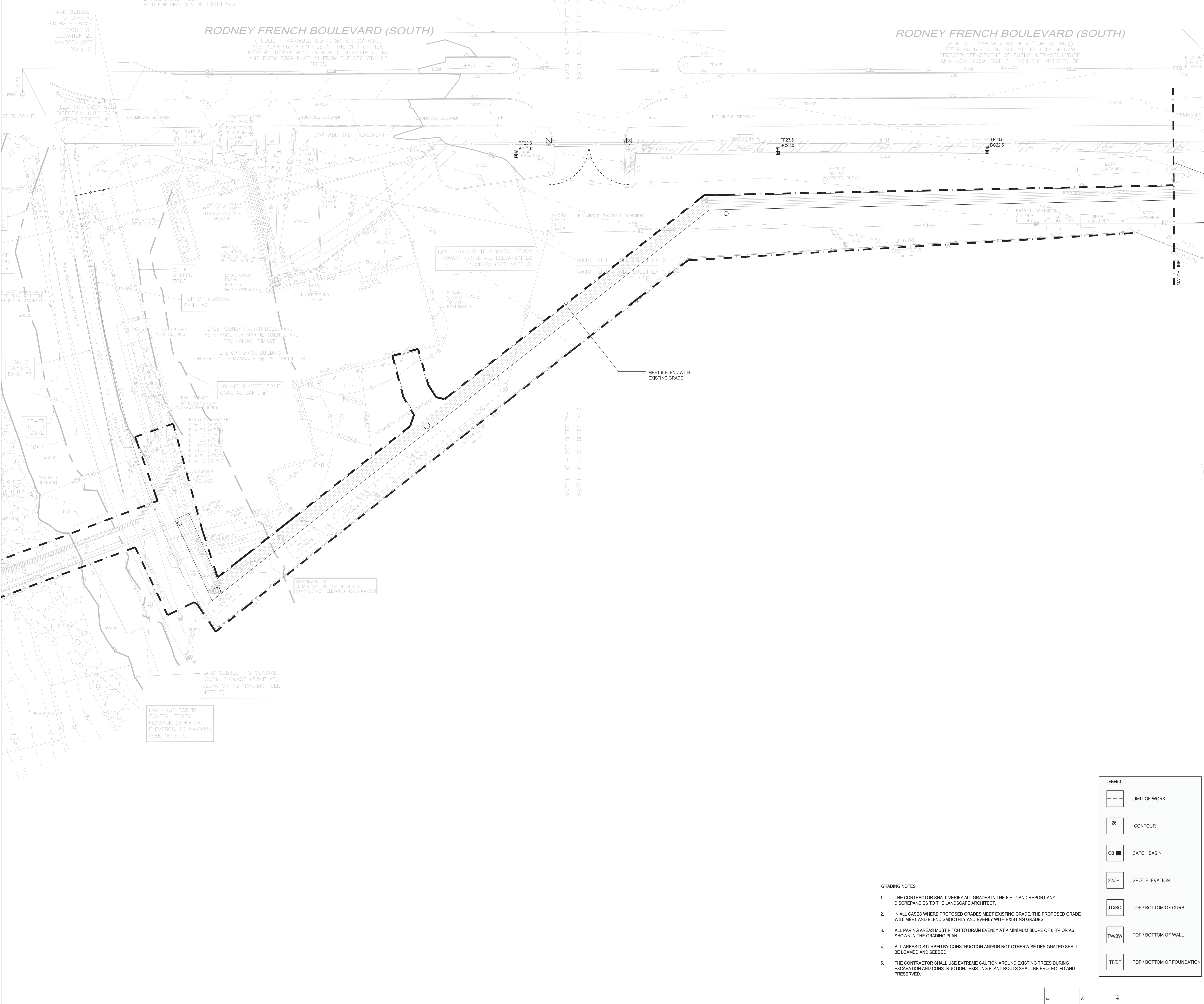


- LEGEND
- LAYOUT POINT OF ORIGIN
  - BITUMINOUS CONCRETE PAVEMENT
  - 4" CONCRETE PAVEMENT
  - 6" CONCRETE PAVEMENT
  - PROCESSED STONE PAVEMENT
  - PRECAST CONCRETE CURB
  - CONC FILLED STEEL BOLLARD
  - CAPE COD BERM
  - STEEL EDGING
  - 8" CHAIN LINK FENCE
  - MASONRY PIER
  - BIKE RACKS
  - PEDESTRIAN AREA LIGHT
  - PARKING AREA LIGHT
  - SLEEVES - (2) 4" SCH.40 PVC PIPE

LAYOUT NOTES

- ALL PAVEMENTS SHALL BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL VERIFY THE LAYOUT OF ALL OTHER SITE ELEMENTS AND REPORT DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- AT ALL LOCATIONS WHERE ROADWAY OR SIDEWALK PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF EXISTING PAVEMENT SHALL BE SAW CUT TO A SMOOTH EDGE.
- ALL LINES AND DIMENSIONS ARE PARALLEL, PERPENDICULAR, OR RADIAL TO THE LINES FROM WHICH THEY ARE MEASURED.
- ALL DIMENSIONS ARE IN FEET AND TENTHS OF INCHES.
- SEE SITE ELECTRICAL PLANS FOR LIGHTING FIXTURE SCHEDULE





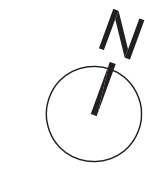
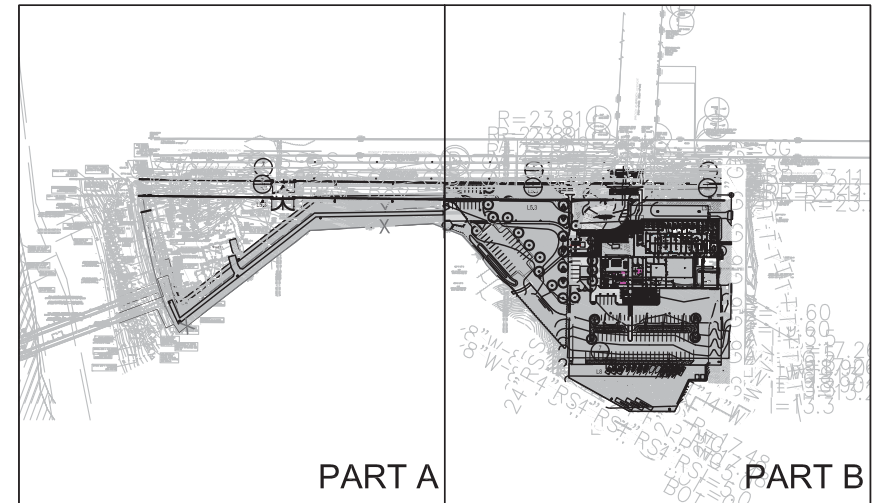
SMAST II, University of  
Massachusetts, Dartmouth

Umass Building Authority  
(UMBA)

Project Number 11-D1

Hill International, Inc. Owner's Project Manager	330 Congress Street, Boston, MA 02210 T 617 778-0900
Ellenzweig Architects   Planners	230 Congress Street Boston, MA 02110 T 617 491-5575 F 617 566-2318
Lin Associates, Inc. Structural Engineer	2001 Beacon Street, Brighton, MA 02135 T 617 924-4216
BR+A Consulting Engineers MEP/IT/Security Engineer	10 Guest Street Boston, MA 02135 T 617 254-0016 F 617 924-9339
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TAG Engineering LLC Seawater Systems Consultant	P.O. Box 558 Woods Hole, MA 02543 T 508 362-0561
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Pieszak Lighting Design Lighting Design	123 Davis Ave. Brookline, MA 02445 T 617 335-8597

Notes:



Keyplan

Project Number:	32106
Drawing By:	JAM
Checked By:	DMS
Filename:	
Issue Date:	01/15/16

Revisions:	No.	Date	Description
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Grading Plan: Part A

Construction Documents  
Scale: 1" = 20'-0"

L-3.1



Hill International, Inc.  
Owner's Project Manager

330 Congress Street,  
Boston, MA 02210  
T 617 778-0900

Ellenzweig  
Architects | Planners

230 Congress Street  
Boston, MA 02110  
T 617 491-5575  
F 617 868-2318

Lin Associates, Inc.  
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2001 Beacon Street,  
Brighton, MA 02135  
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63 Larkin Road  
Byfield, MA 01922  
T 978 499-0172  
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P.O. Box 558  
Woods Hole, MA 02543  
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Nitsch Engineering  
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2 Center Plaza, No.430  
Boston, MA 02138  
T 617 338-0063

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Falmouth, MA 02541  
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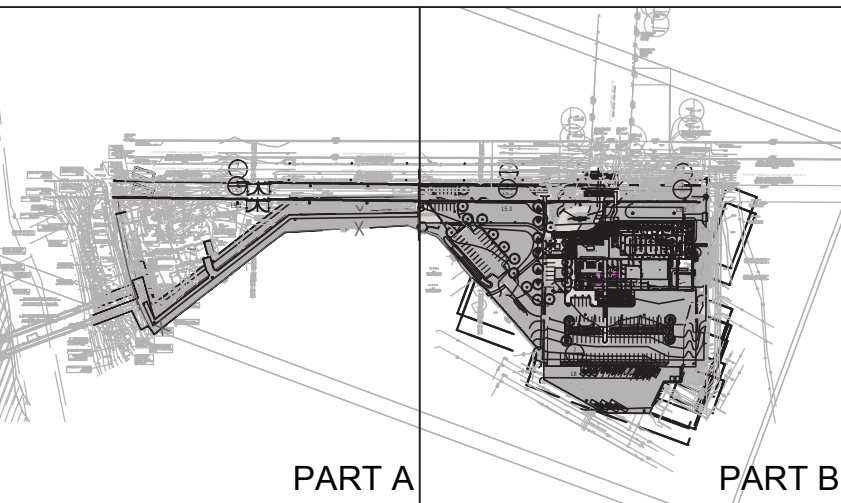
GZA GeoEnvironmental  
Geo-Environmental

133 Federal St.  
Boston, MA 02110  
T 617 963-1000  
F 617 4482-6868

Pieszak Lighting Design  
Lighting Design

123 Davis Ave.  
Brookline, MA 02445  
T 617 335-8597

Notes:



Keyplan

Project Number: 32106  
Drawing By: JAM  
Checked By: DMS  
Filename:  
Issue Date: 01/15/16

Revisions:

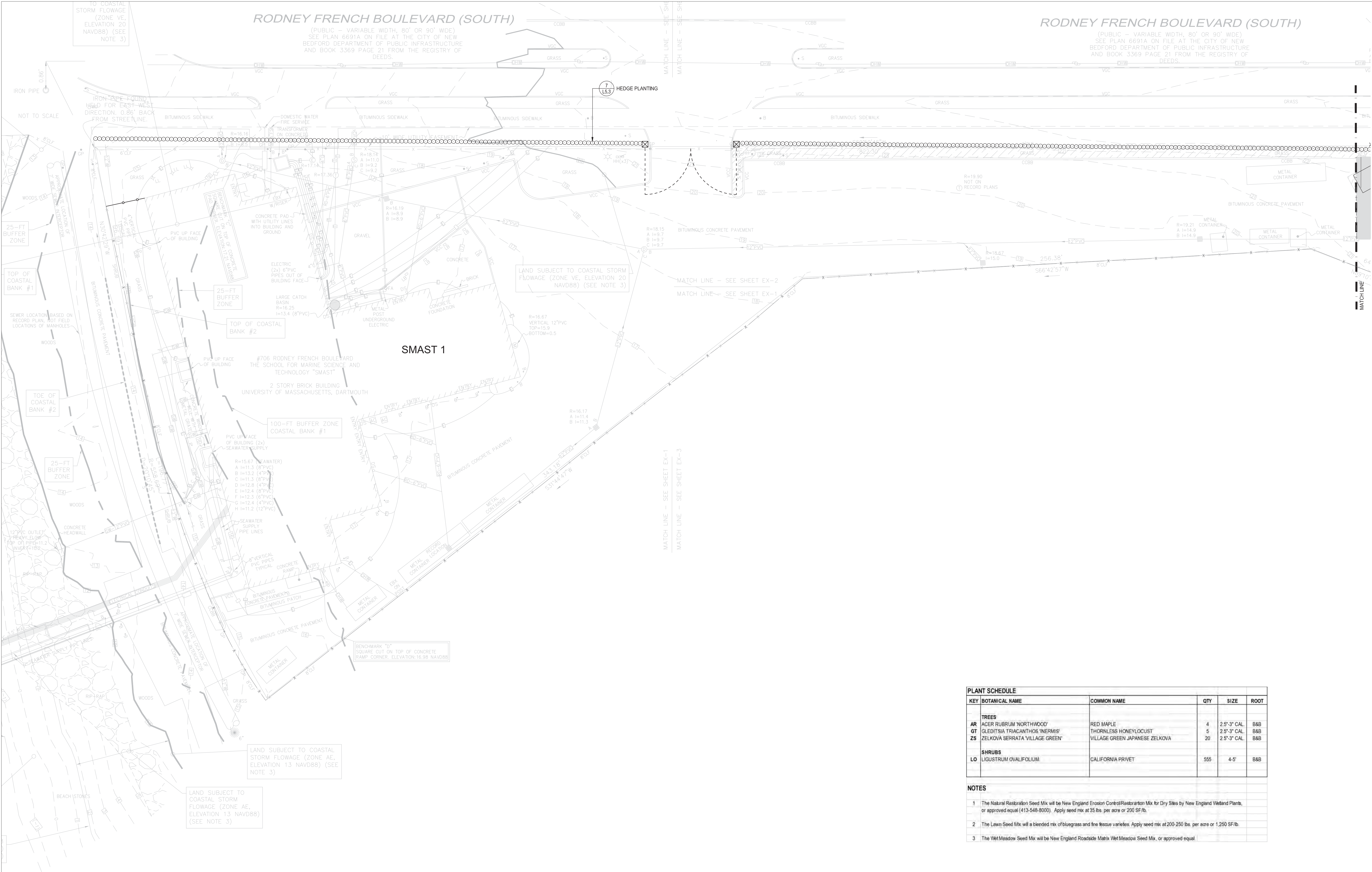
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## Grading Plan: Part B

Construction Documents  
Scale: 1" = 20'-0"

L-3.2





SMAS1 II, University of Massachusetts, Dartmouth

Umass Building Authority (UMBA)

Project Number 11-D1

Hill International, Inc.  
Owner's Project Manager  
330 Congress Street,  
Boston, MA 02210  
T 617 778-0900

Ellenzweig Architects | Planners  
230 Congress Street  
Boston, MA 02110  
T 617 491-5575  
F 617 868-2318

Lin Associates, Inc.  
Structural Engineer  
2001 Beacon Street,  
Brighton, MA 02135  
T 617 566-4216

BR+A Consulting Engineers  
MEP/IT/Security Engineer  
10 Guest Street  
Boston, MA 02135  
T 617 254-0016  
F 617 924-9339

Fernandez & Associates  
Fire Protection Engineer  
63 Larkin Road  
Byfield, MA 01922  
T 978 499-0172  
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TAG Engineering LLC  
Seawater Systems Consultant  
P.O. Box 558  
Woods Hole, MA 02543  
T 508 362-0561

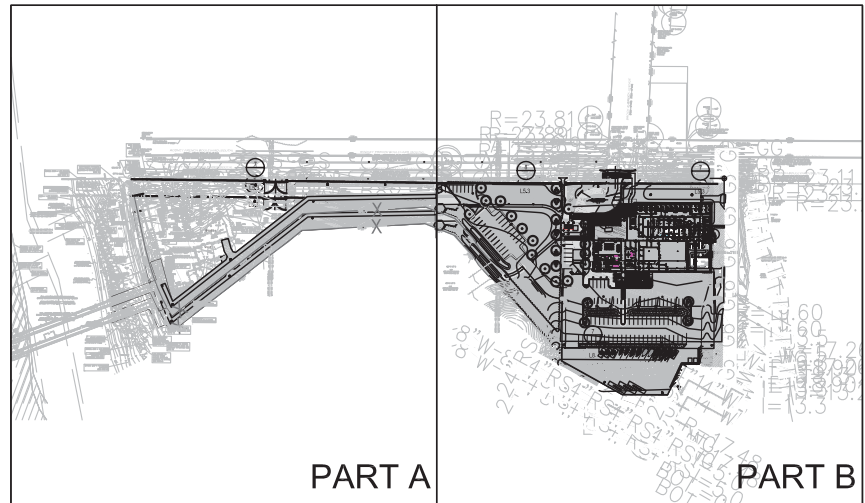
Nitsch Engineering  
Civil Engineer  
2 Center Plaza, No.430  
Boston, MA 02138  
T 617 338-0063

Horiuchi Solien  
Landscape Architect  
P.O. Box 914, 200 Main St.  
Falmouth, MA 02541  
T 508 540-5320  
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GZA GeoEnvironmental  
Geo-Environmental  
133 Federal St.  
Boston, MA 02110  
T 617 963-1000  
F 617 4482-6868

Pieszak Lighting Design  
Lighting Design  
123 Davis Ave.  
Brookline, MA 02445  
T 617 335-8597

Notes:



Keyplan

Project Number: 32106  
Drawing By: JAM  
Checked By: DMS  
Filename:  
Issue Date: 01/15/16

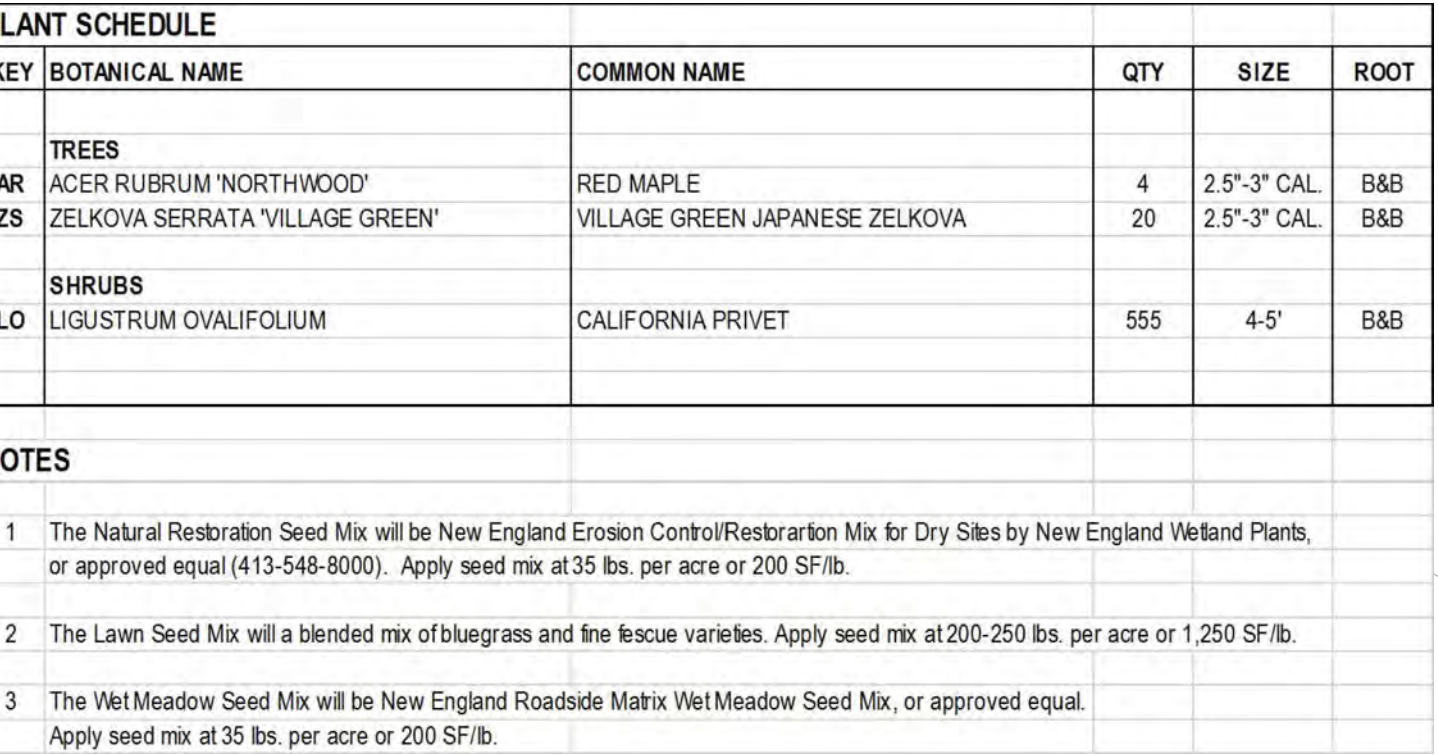
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No. Date Description

Planting Plan: Part A




Construction Documents  
Scale: 1" = 20'-0"

L-4.1





1. LANDSCAPE CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID TO BECOME COMPLETELY FAMILIAR WITH SITE CONDITIONS.
2. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
3. CONTRACTOR TO VERIFY ALL UTILITIES ON PROPERTY AND TO PROTECT ALL UTILITIES DURING EXCAVATION.
4. IF THERE IS A DISCREPANCY BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND THE NUMBER OF PLANTS SHOWN IN THE PLANT LIST, THE NUMBER OF PLANTS SHOWN ON THE LIST WILL TAKE PRECEDENCE.
5. ALL CONTAINER MATERIAL TO BE GROWN IN CONTAINER A MINIMUM OF SIX MONTHS.
6. ALL MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, ACCORDING TO THE AMERICAN ASSOCIATION OF NURSERYMEN.
7. ALL PROPOSED PLANTS SHALL BE LOCATED CAREFULLY AS SHOWN ON THE PLANS AND THE PLACEMENT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE THE INSTALLATION.
8. ALL DISTURBED AREAS NOT TO BE PAVED OR PLANTED SHALL BE LOAMED AND SEED MIX.
9. ALL PLANT MATERIAL SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECT ON SITE PRIOR TO INSTALLATION. THE LANDSCAPE ARCHITECT WILL TAG ALL TREES AT THE NURSERY AND REMOVE THEM AFTER DELIVERY TO THE SITE. SEE SPECIFICATIONS FOR TAGGING, INSPECTION, AND ACCEPTANCE OF PLANT MATERIAL.
10. LANDSCAPE ARCHITECT SHALL CONFIRM PLANT LIST AND APPROVE SUBSTITUTIONS OF PLANT VARIETIES PRIOR TO ORDERING OF MATERIAL.

LEGEND	
	LAWN SEED MIX 42,500 SF
	WET MEADOW MIX 6,800 SF
	NATURAL RESTORATION SEED MIX 11,600 SF

Notes:



## Keyplan

Project Number:  
Drawing By: JAM  
Checked By: DMS  
Filename:  
Issue Date: 01/29/2016

Revisions:

No.	Date	Description
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## Construction Documents Progress Set

## Planting Plan: Part B

Construction Documents  
Scale: 1" = 20'-0"

## L-4.2



Hill International, Inc.  
Owner's Project Manager

330 Congress Street,  
Boston, MA 02210  
T 617 778-0900

Ellenzweig  
Architects | Planners

230 Congress Street  
Boston, MA 02110  
T 617 491-5575  
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Brighton, MA 02135  
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Falmouth, MA 02541  
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GZA GeoEnvironmental  
Geo-Environmental

133 Federal St.  
Boston, MA 02110  
T 617 963-1000  
F 617 4482-6868

Pleszak Lighting Design  
Lighting Design

123 Davis Ave.  
Brookline, MA 02445  
T 617 335-8597

Notes:



PART A

PART B



Keyplan

Project Number: 31206

Drawing By: JAM

Checked By: DMS

Filename:

Issue Date: 01/15/16

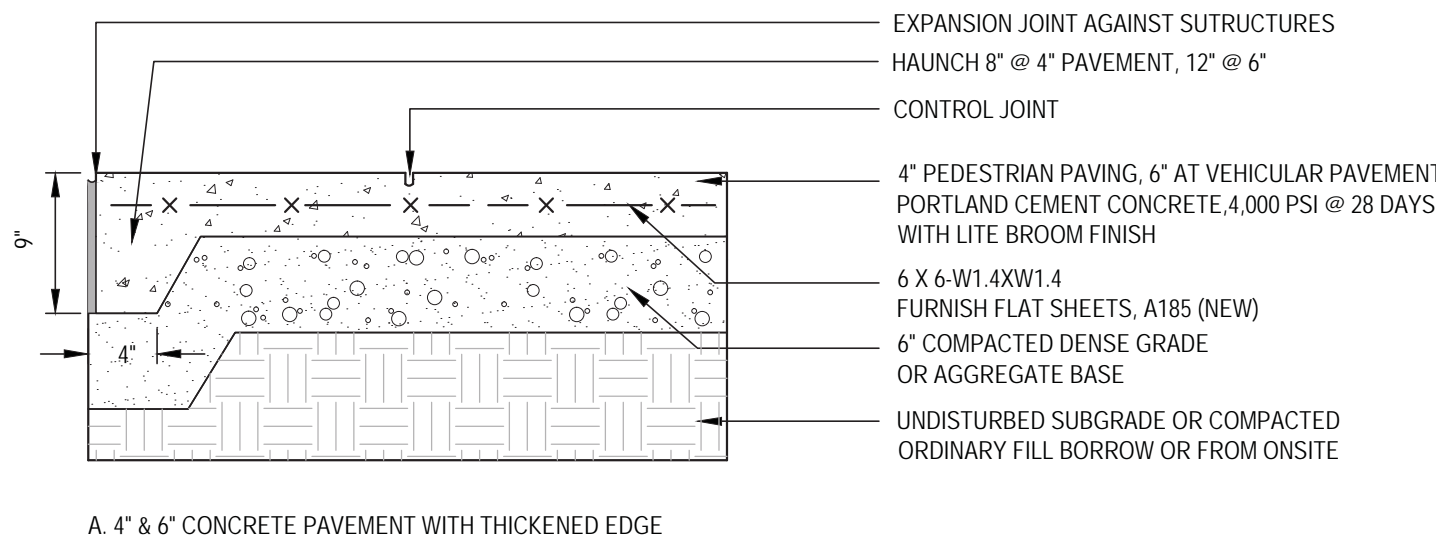
Revisions:

No.	Date	Description
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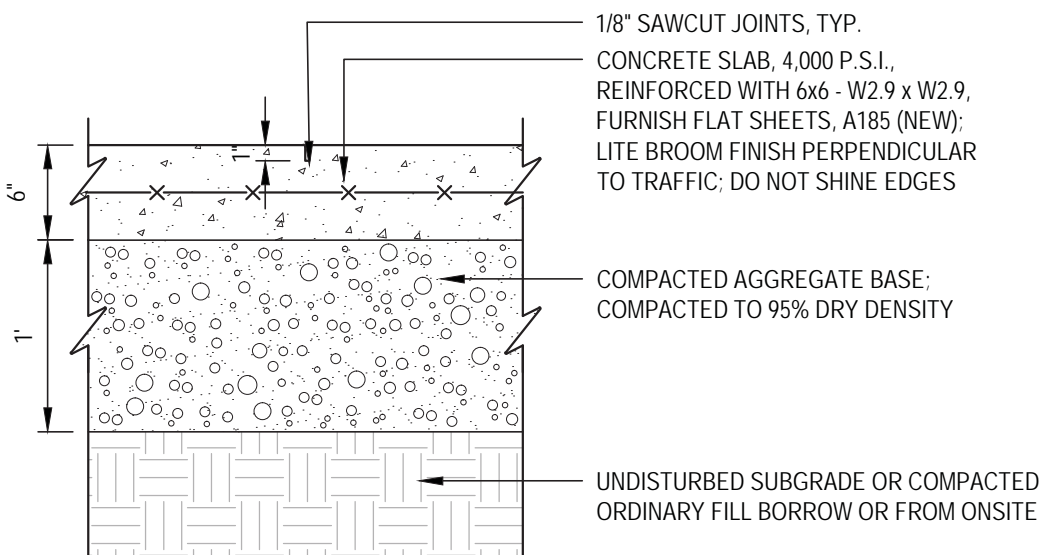
Site Details

Construction Documents  
Scale: As noted

L-5.0

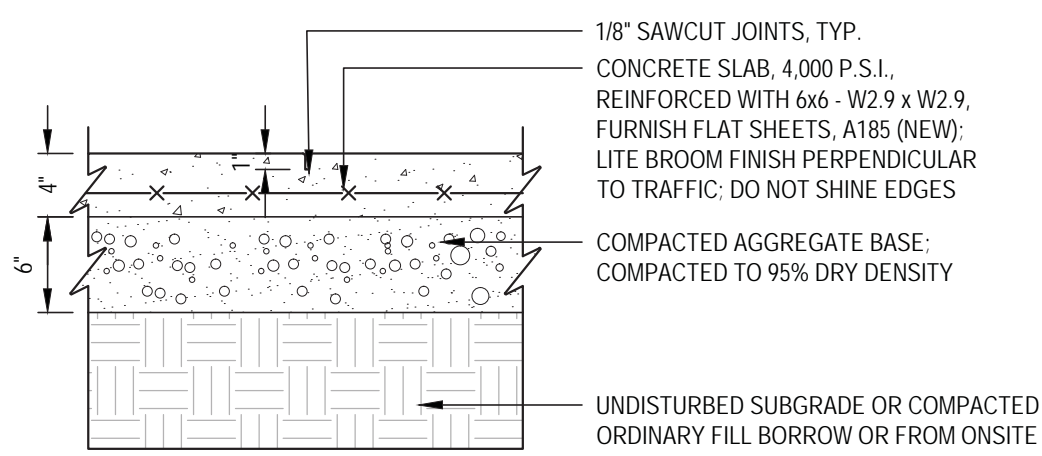


A. 4' x 6' CONCRETE PAVEMENT WITH THICKENED EDGE

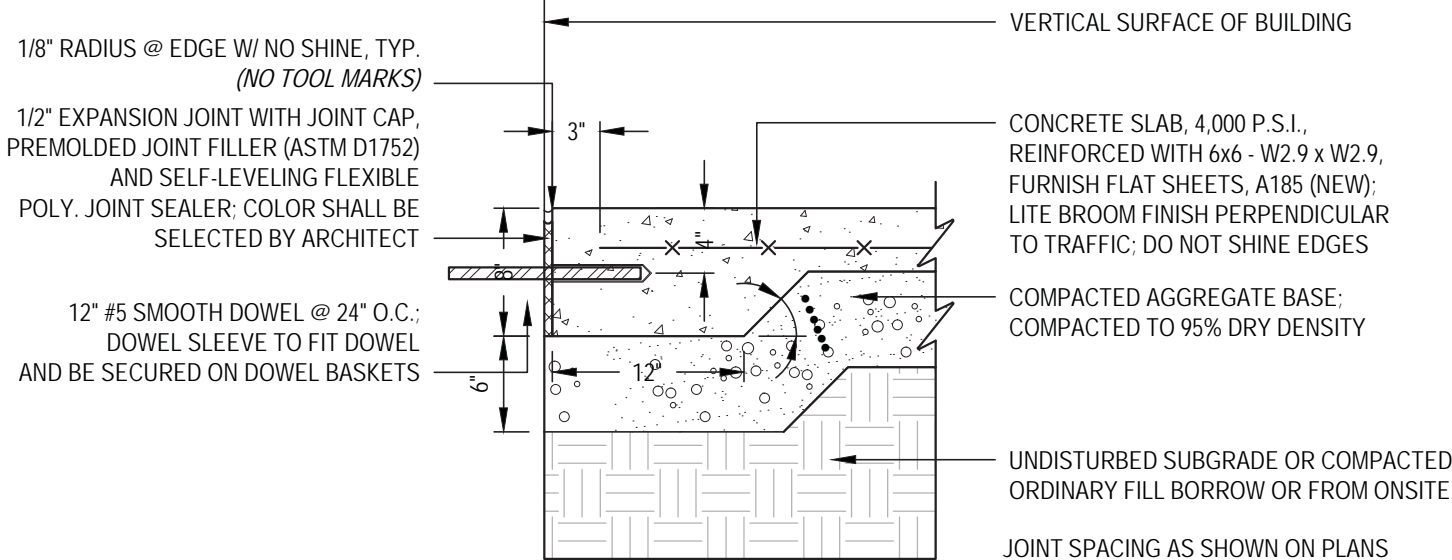


B. 6' CONCRETE PAVEMENT

## 1 CONCRETE PAVEMENT

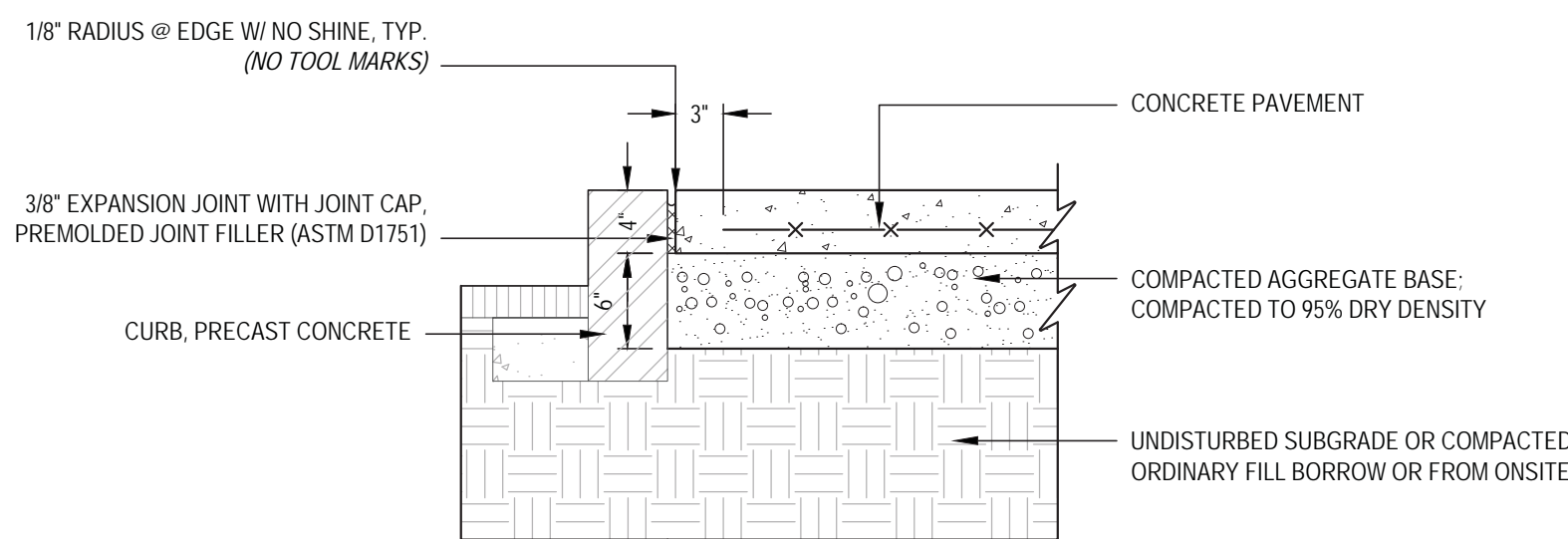


## 2 CONTROL JOINT

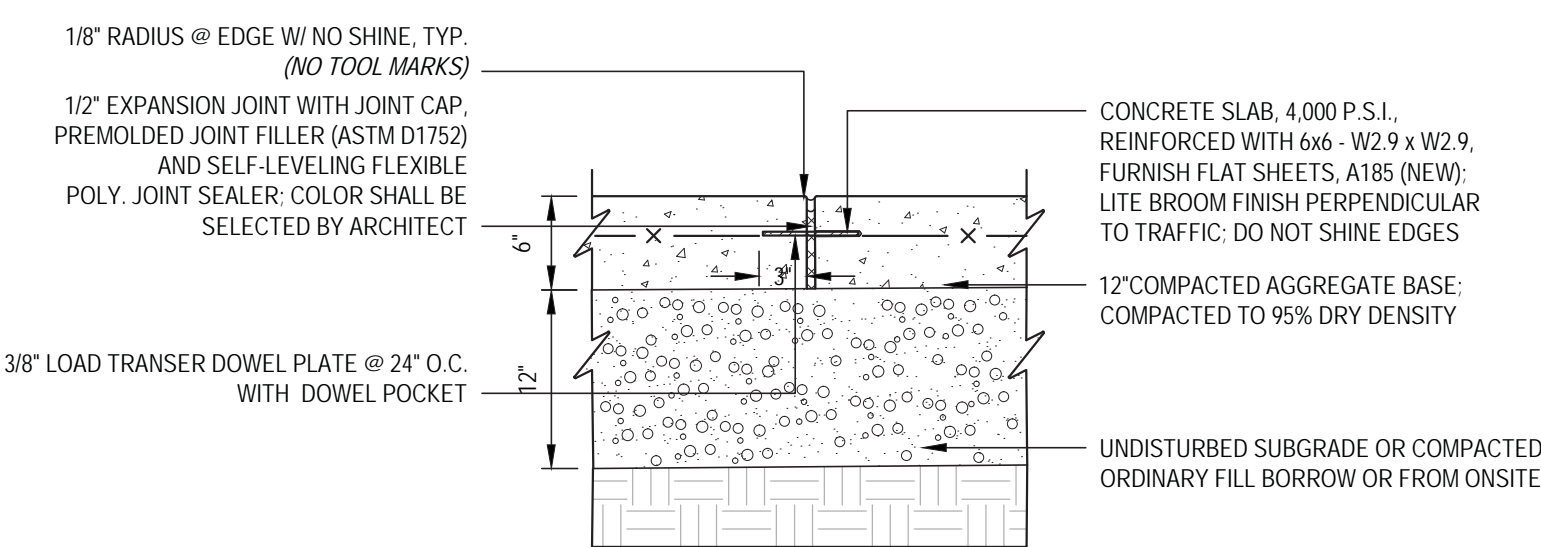


CONSTRUCTION JOINT AT BUILDING

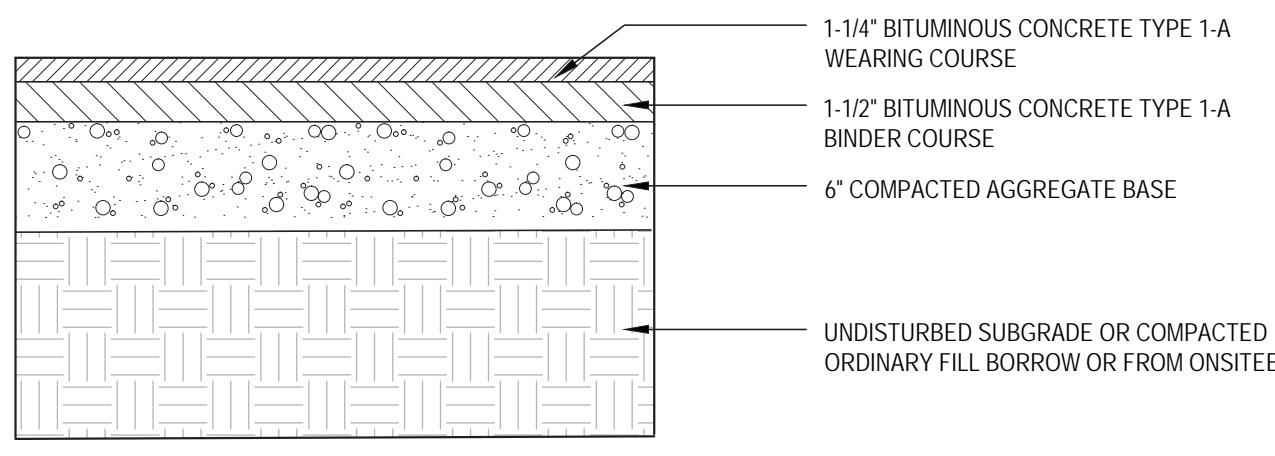
## 3 DOWELED EXPANSION JOINT AT BUILDING



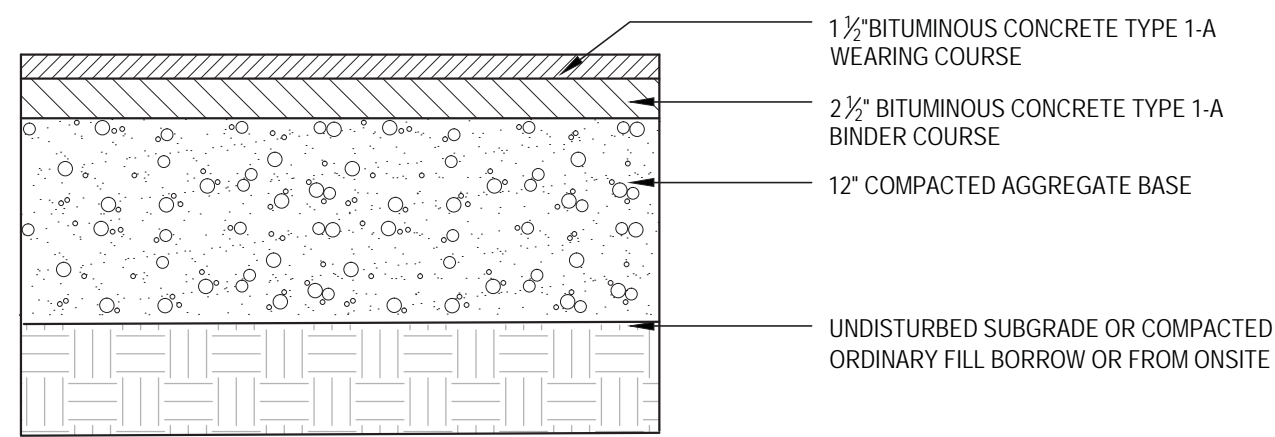
## 4 EXPANSION JOINT AT CURB



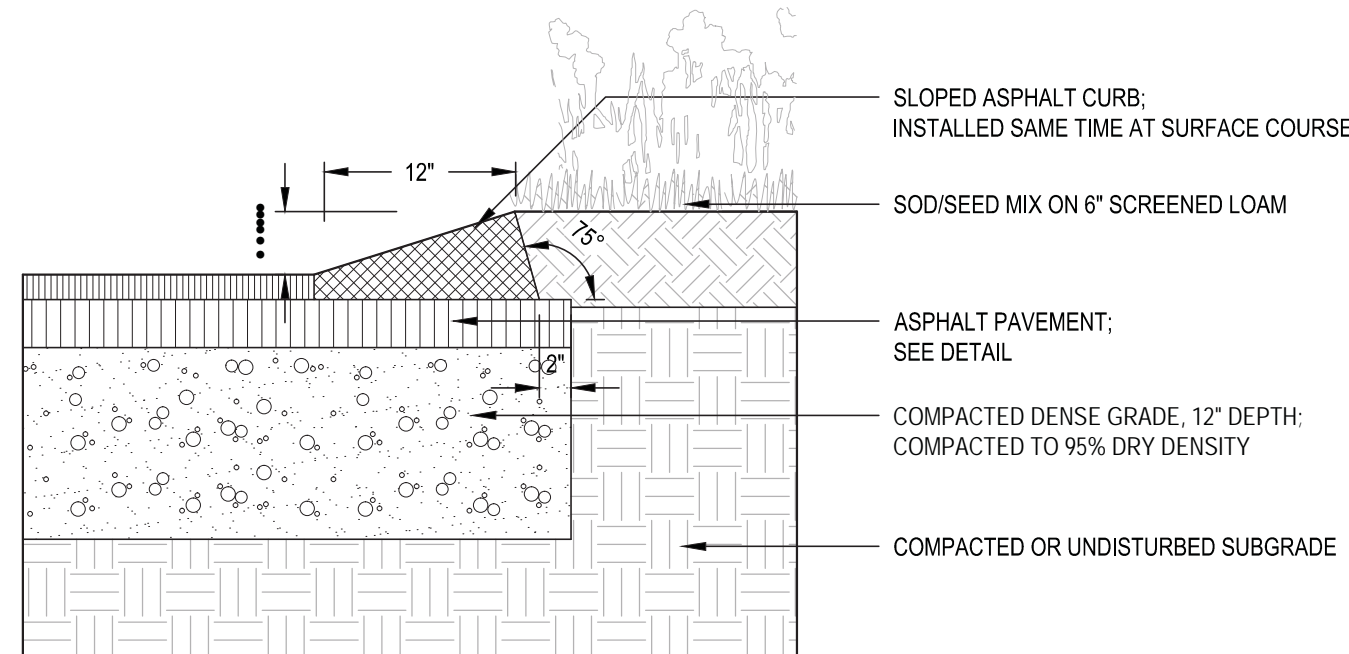
## 5 DOWELED EXPANSION JOINT AT LOADING DOCK



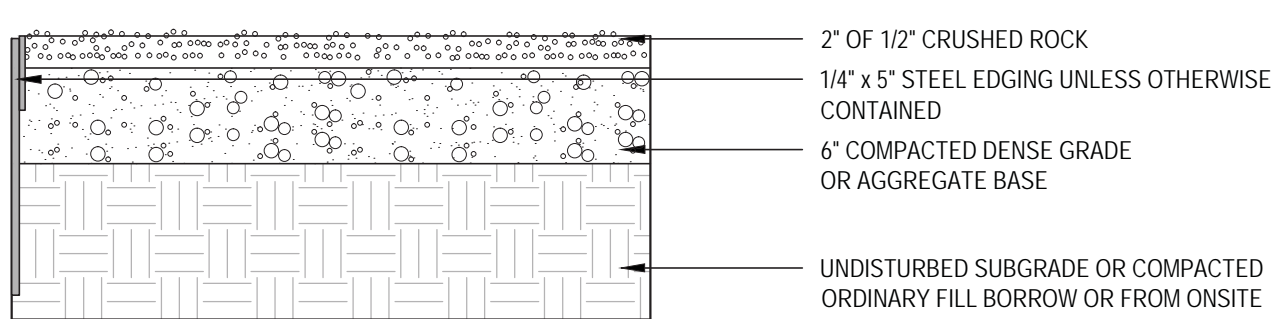
## 6 BITUMINOUS CONCRETE WALKWAY PAVEMENT



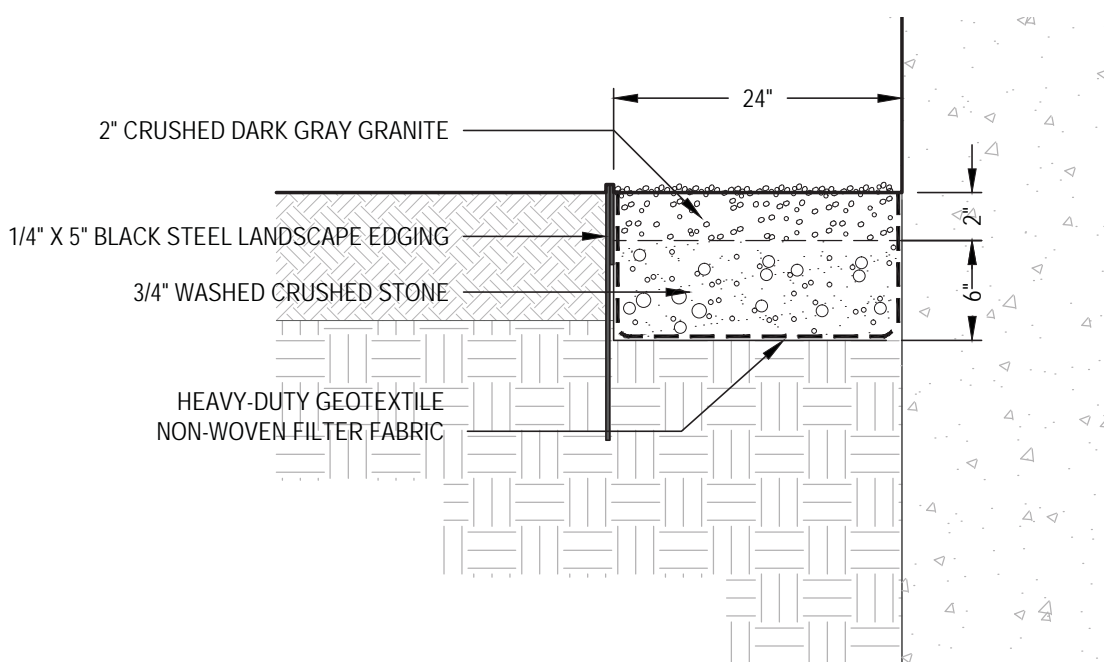
## 7 BITUMINOUS CONCRETE ROADWAY & PARKING PAVEMENT



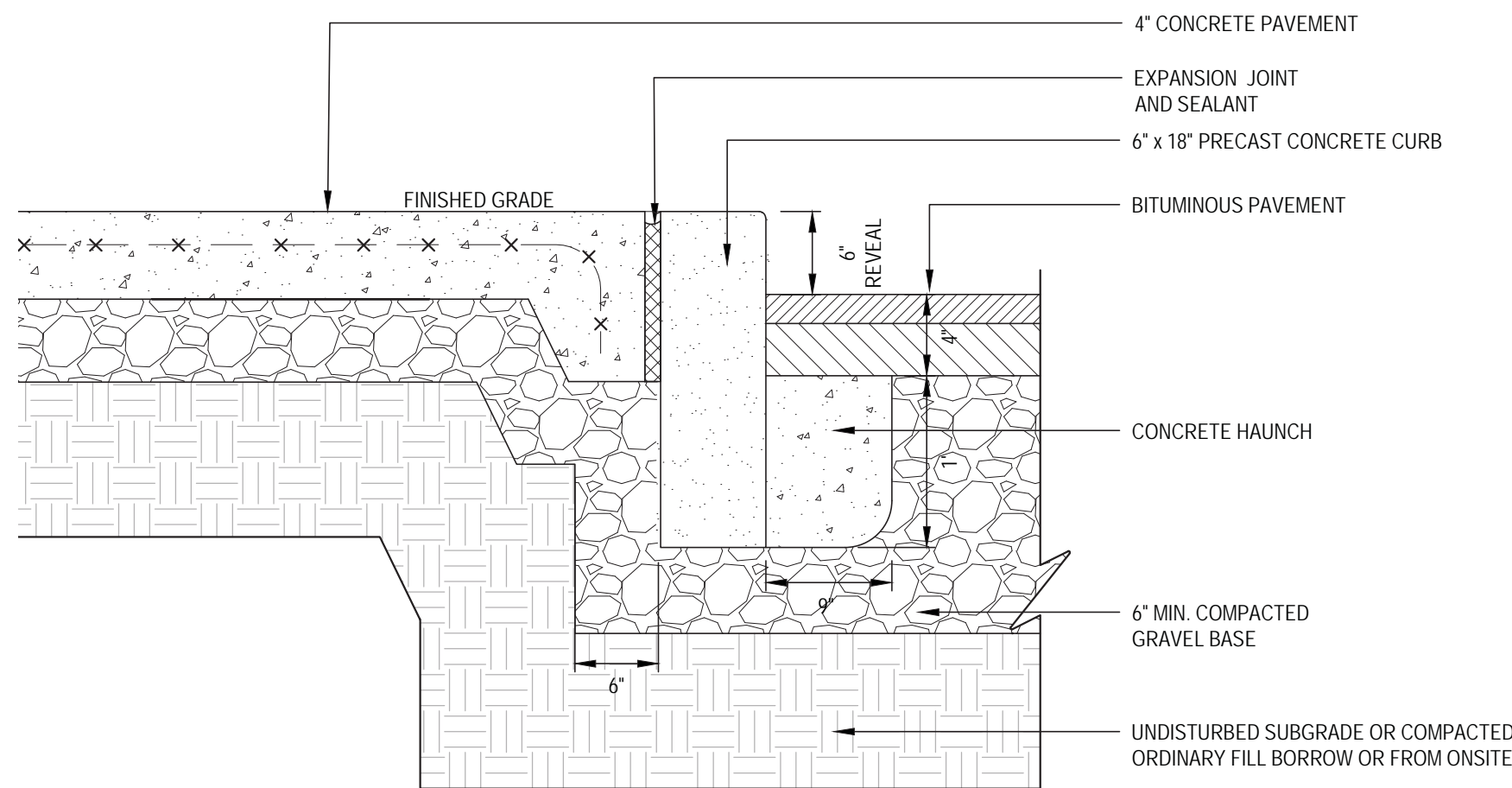
## 8 CAPE COD ASPHALT BERM DETAIL



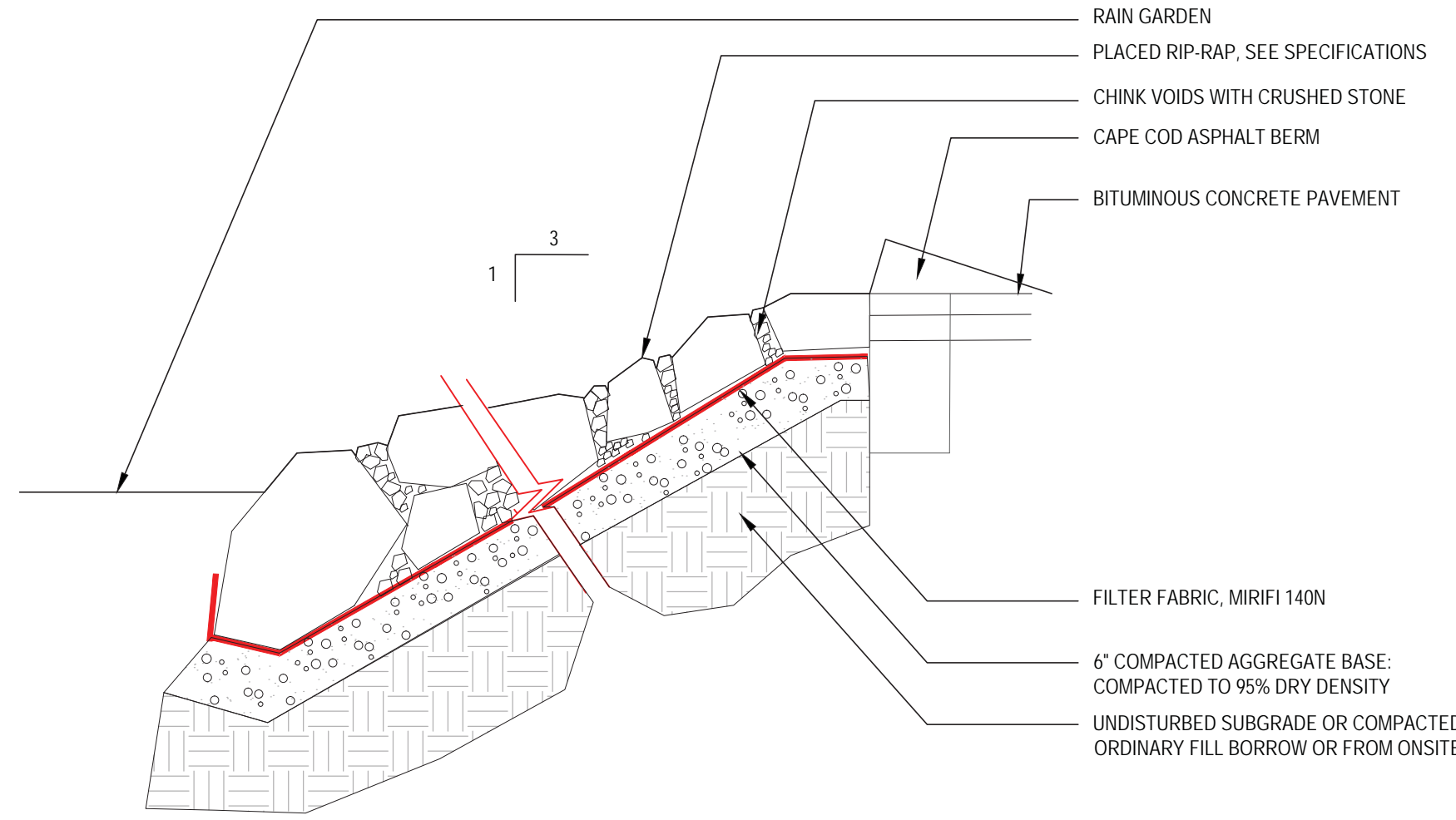
## 9 PROCESSED STONE PERVIOUS PAVEMENT



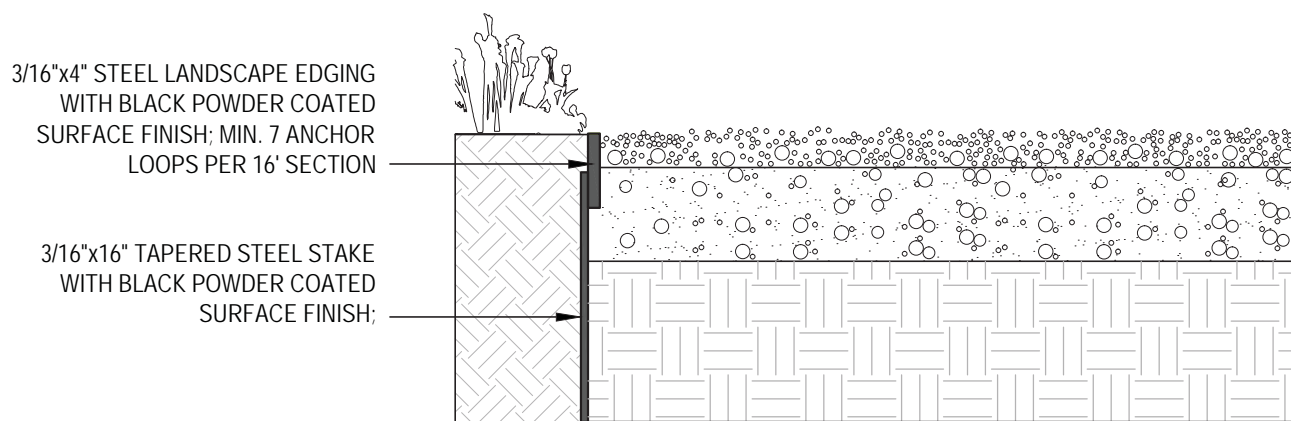
## 10 STONE DRIP EDGE AT BUILDING



## 11 PRECAST CONCRETE CURB



## 12 RIP-RAP SPILLWAY



## 13 STEEL EDGING

NOTES:

SIDEWALKS AND PLAZAS:

1. SLOPE REQUIREMENTS APPLY TO ALL WALKWAY SURFACES INCLUDING BITUMINOUS, PORTLAND CEMENT, PAVERS AND CHIPSEAL.

2. SLOPE REQUIREMENTS APPLY TO ALL SIDEWALKS AND PLAZAS AND ARE NOT LIMITED TO ACCESSIBLE ROUTES.

3. IN THE EVENT OF DISCREPANCY BETWEEN THE MAXIMUM ACCESSIBLE CROSS SLOPE OR RUNNING SLOPE PER THE DETAILS AND THE GRADING SHOWN ON THE DRAWINGS, NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTING THE PAVEMENT.

CURB CUTS:

1. PROVIDE FLUSH TRANSITION FROM CURB CUTS TO ADJACENT WALKS AND STREETS, FREE OF CHANGES IN LEVEL GREATER THAN 1/2-INCH.

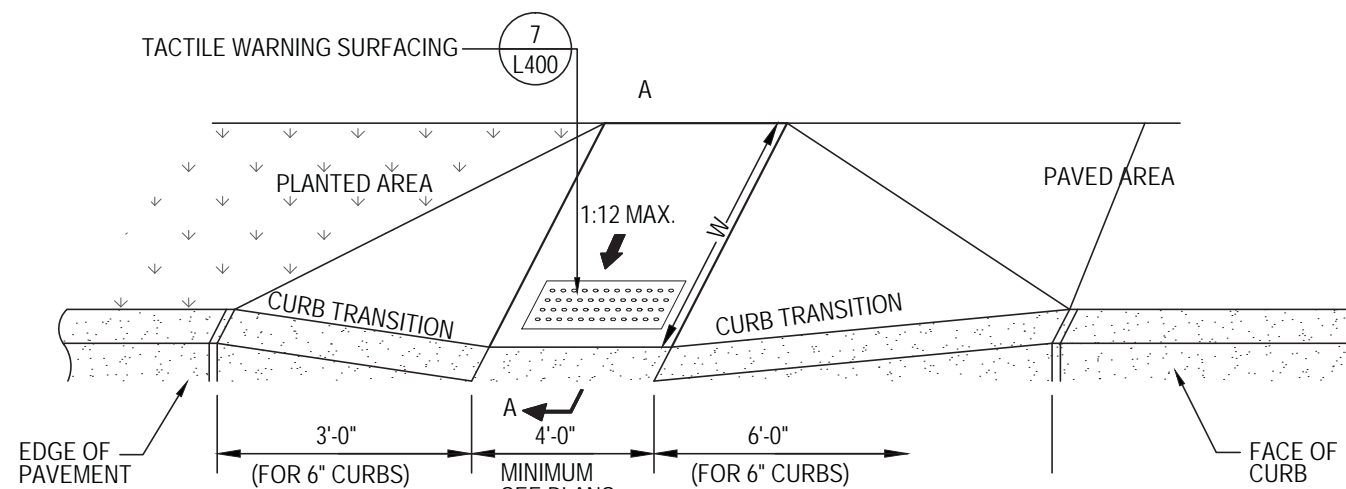
2. THE SLOPE OF THE LEVEL LANDINGS AT THE TOP OF THE CURB CUT SHALL NOT EXCEED 1% IN ANY DIRECTION.

3. PROVIDE DETECTABLE WARNING ALONG THE FULL DEPTH AND WIDTH OF THE CURB RAMP.

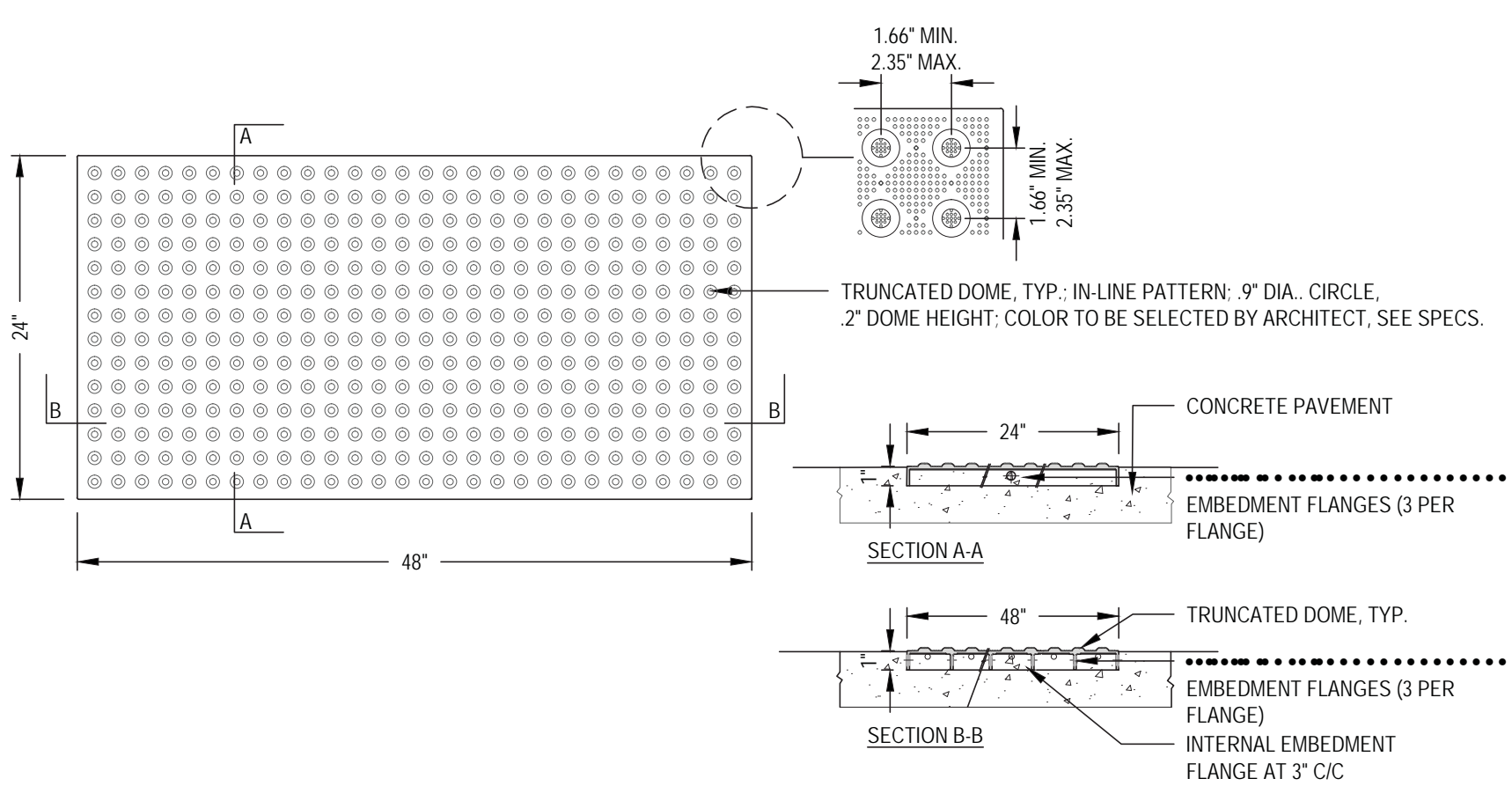
4. ALL CURB CUTS ARE TO BE CONSTRUCTED OUT OF PORTLAND CEMENT CONCRETE UNLESS OTHERWISE NOTED ON PLANS.

LEVEL LANDINGS:

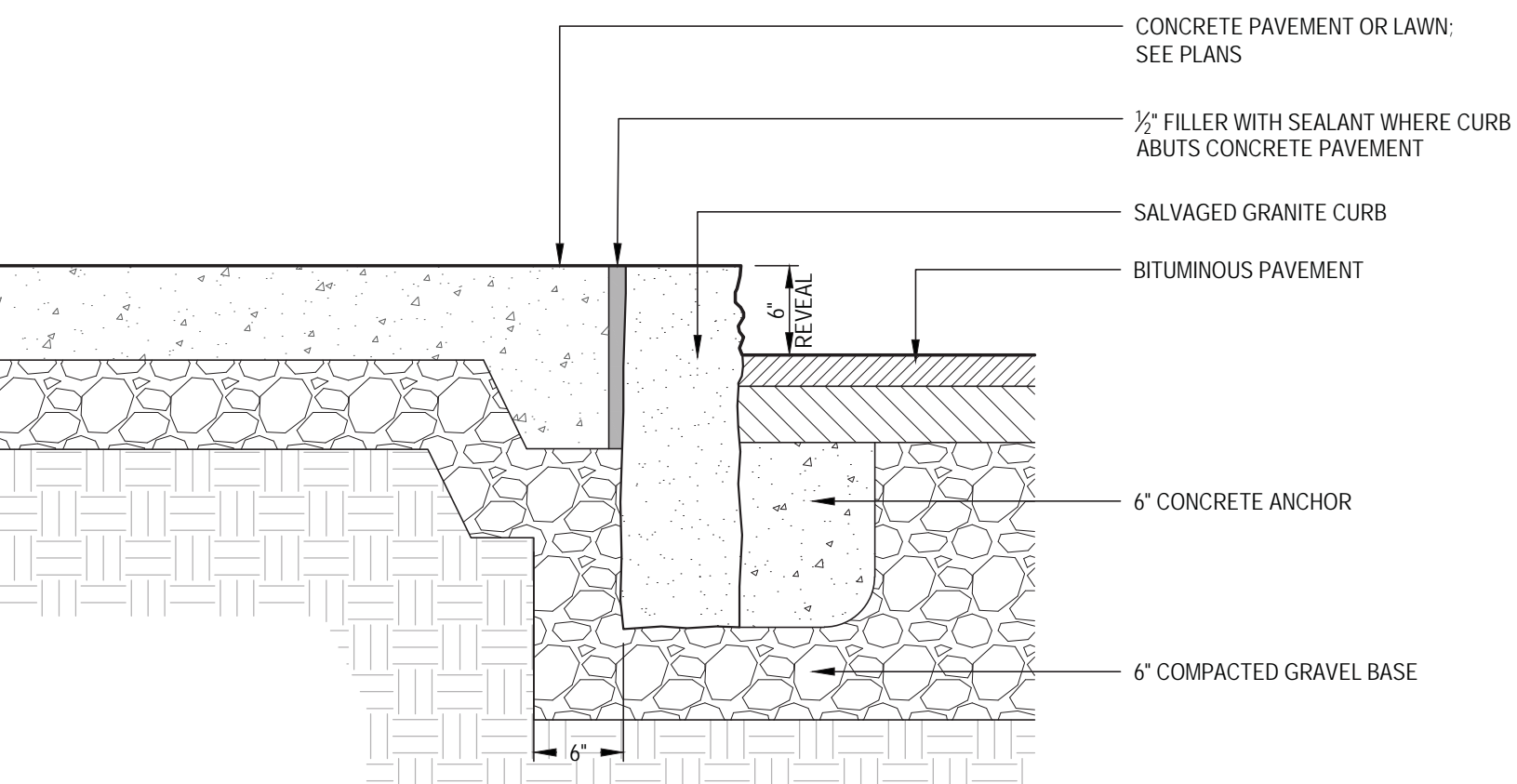
1. PROVIDE LEVEL LANDINGS WITH MAXIMUM SLOPE IN ANY DIRECTION OF 1%.



## 14 HANDICAP CURB CUT

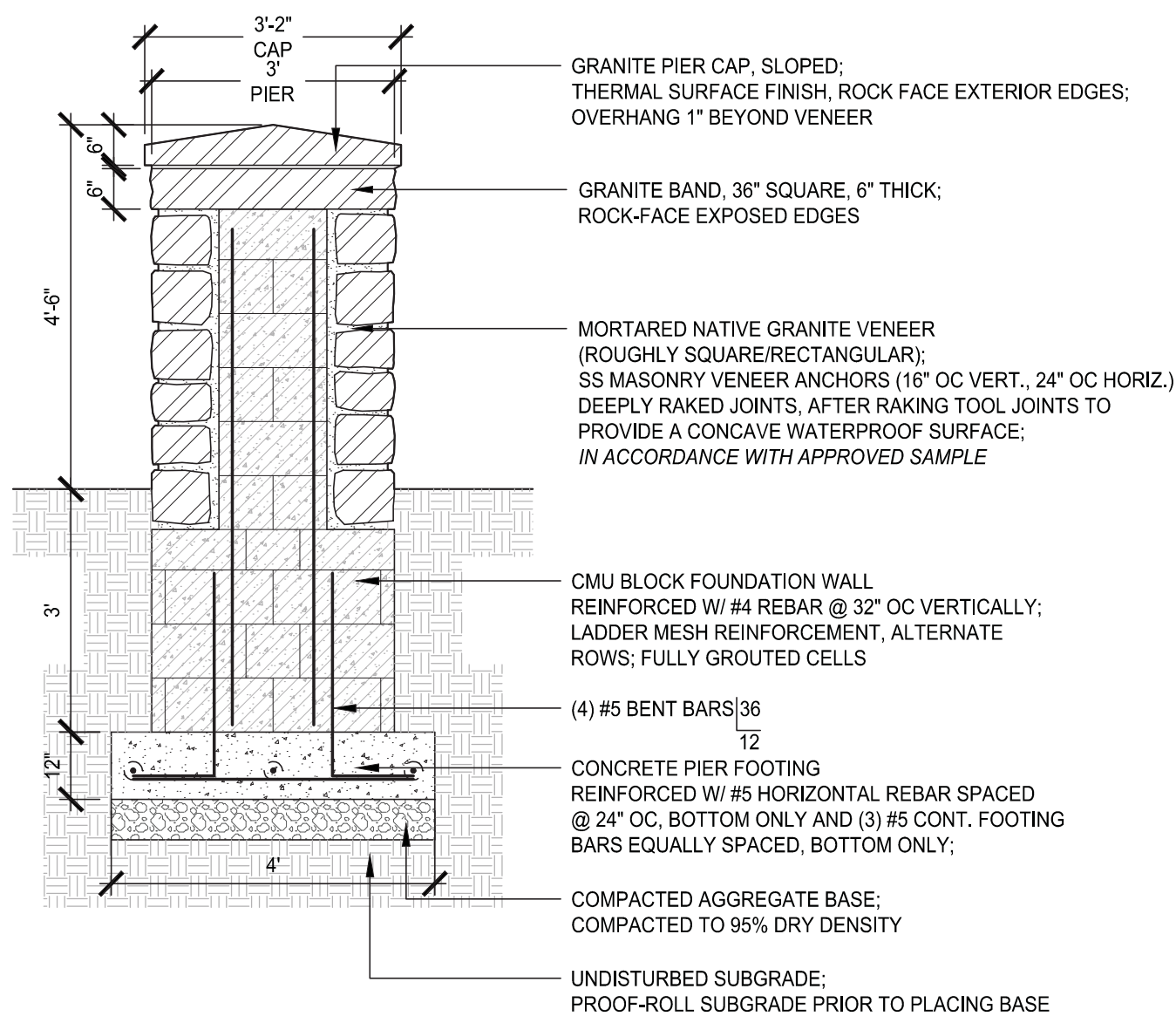


## 15 DETECTABLE WARNING STRIP



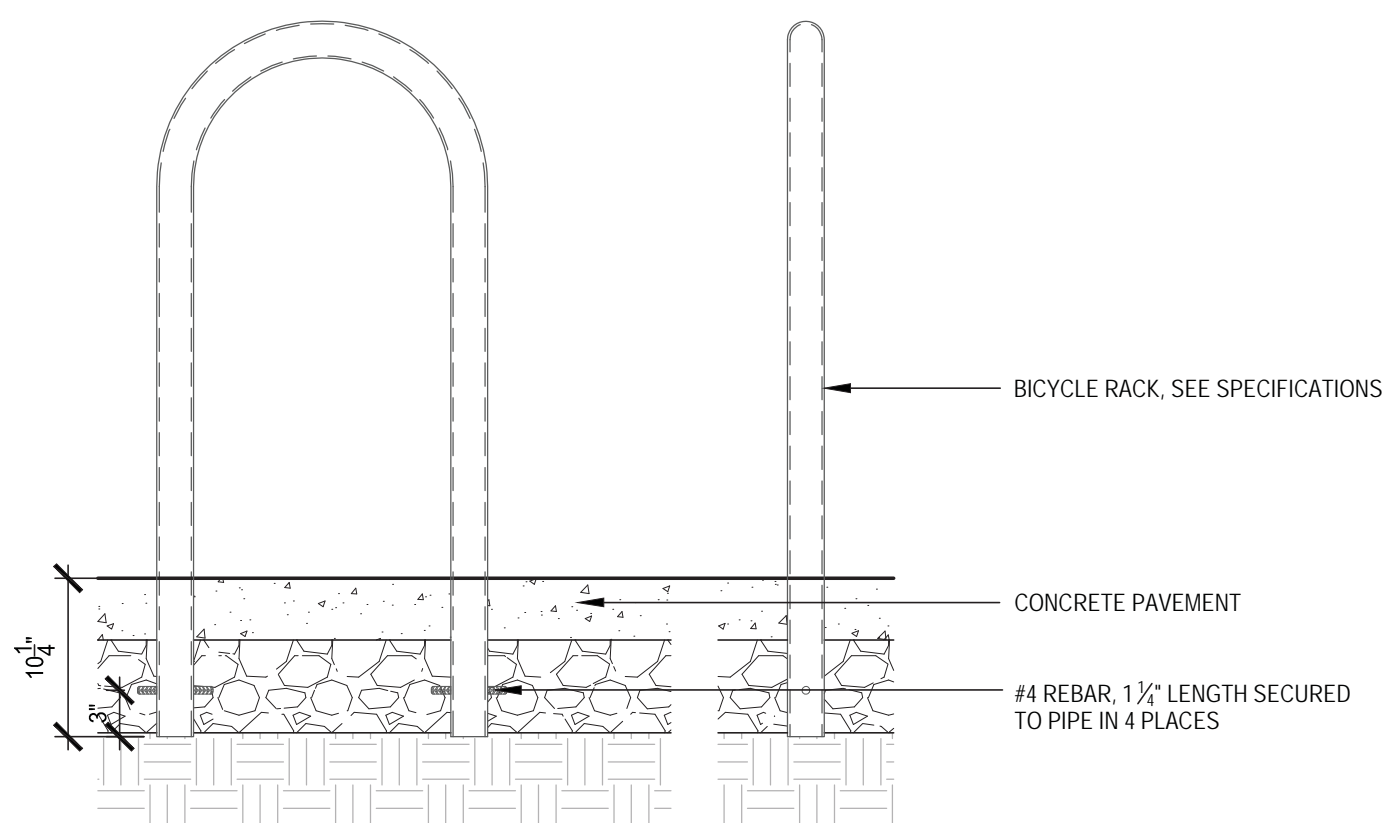
## 16 VERTICAL GRANITE CURB



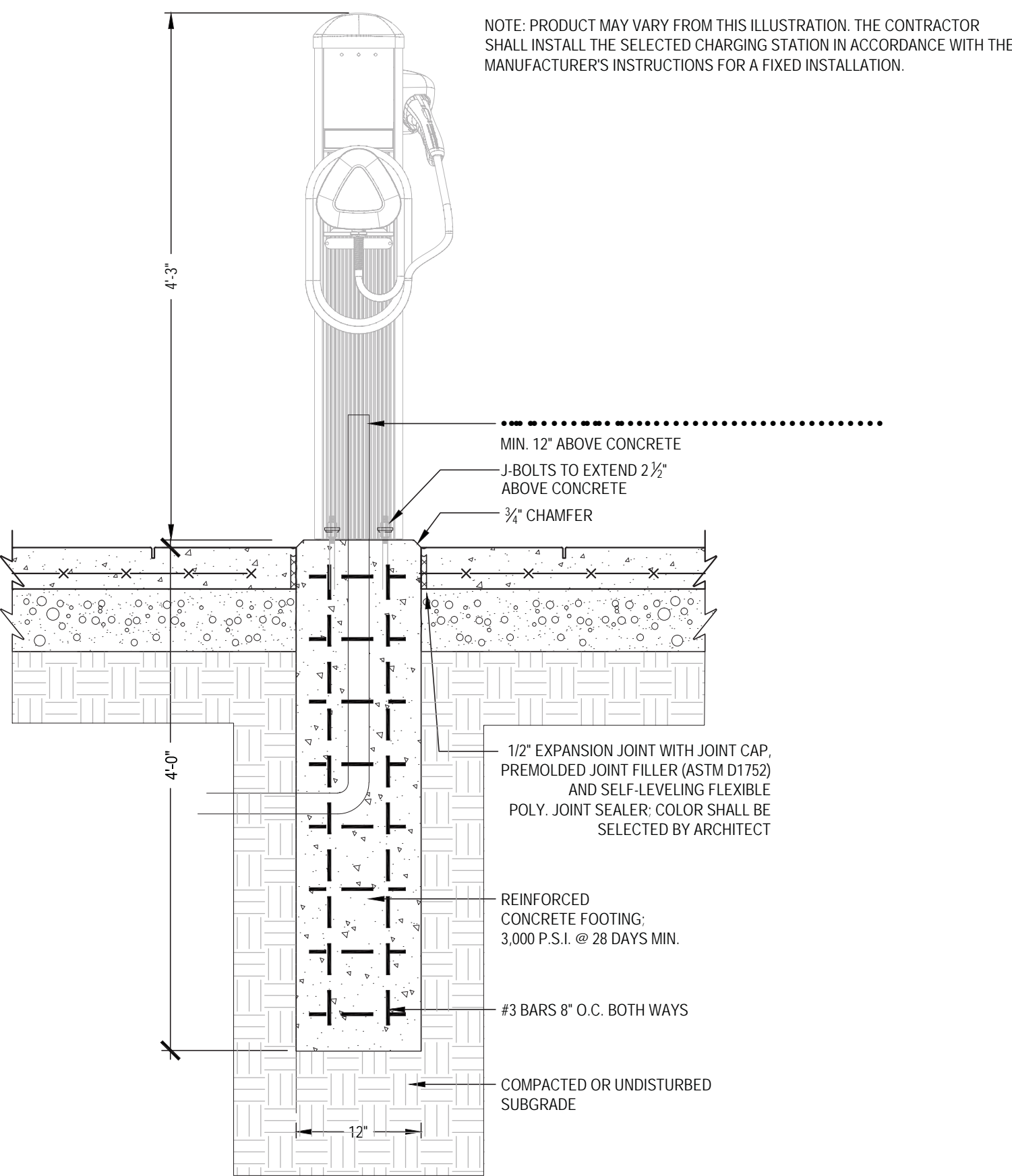


1 MASONRY PIER  
1/2"=1'-0"

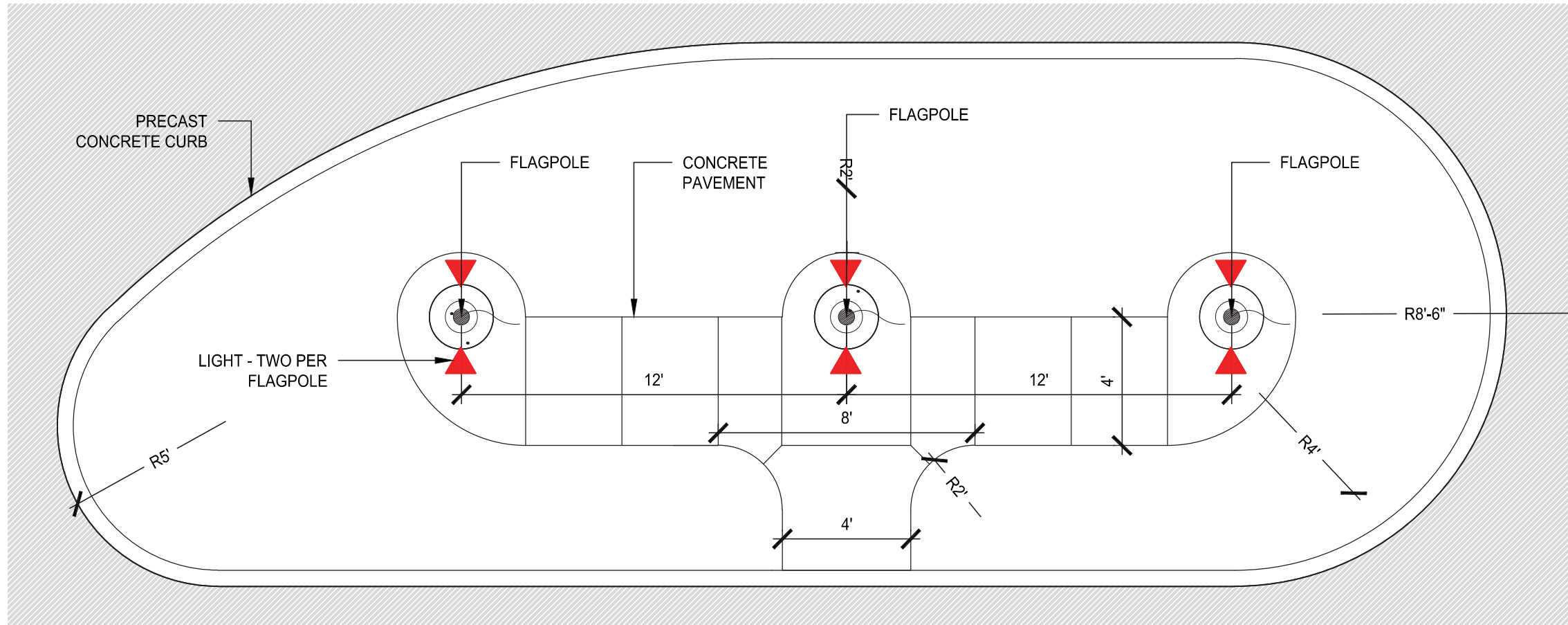
NOTE: PRODUCT MAY VARY FROM THIS ILLUSTRATION. THE CONTRACTOR SHALL INSTALL THE SELECTED BICYCLE RACK IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR A FIXED INSTALLATION.



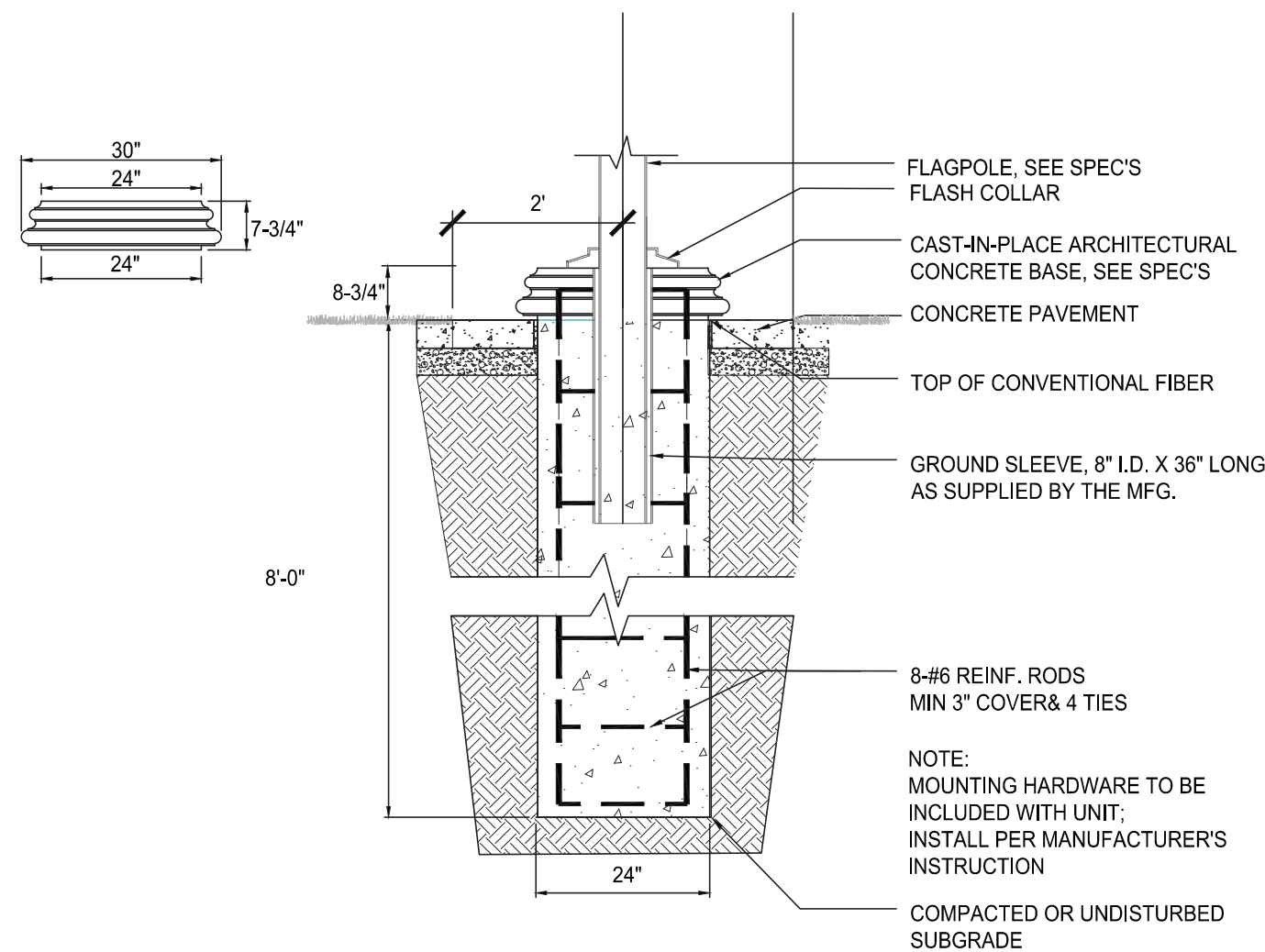
2 BICYCLE STORAGE RACK  
1"=1'-0"



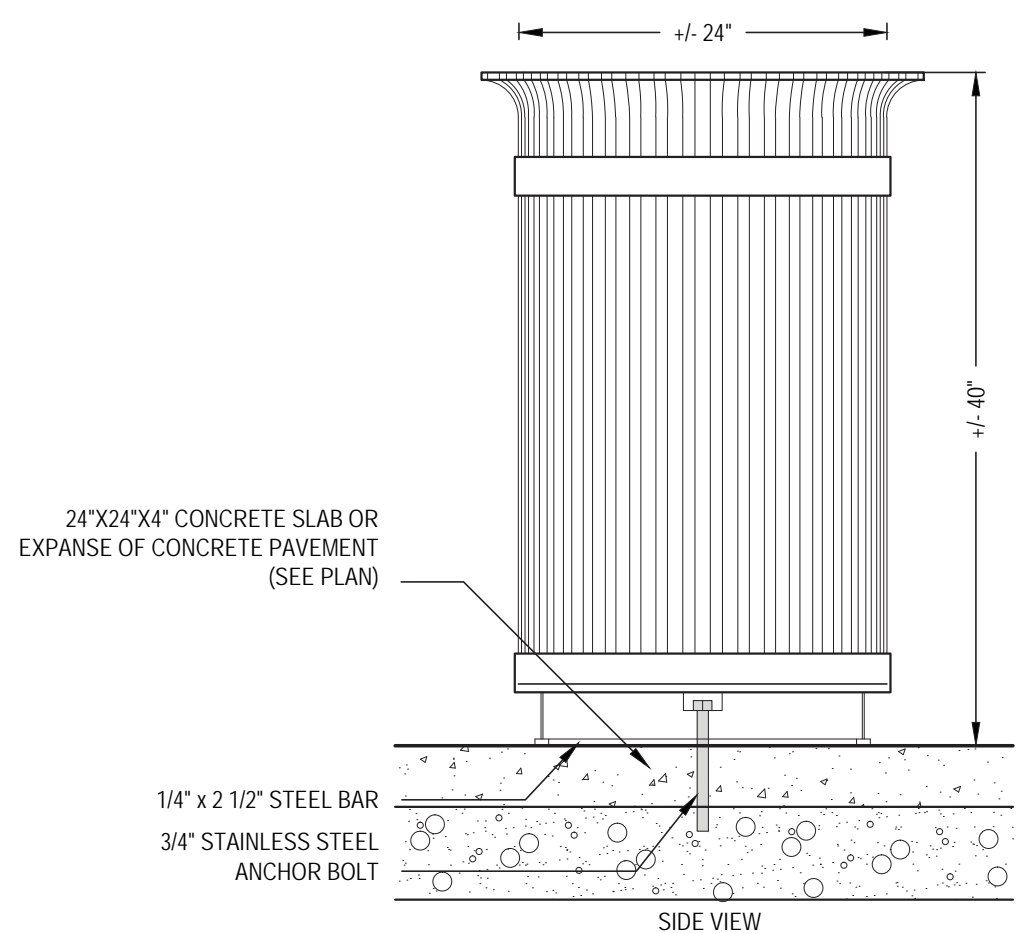
3 CAR CHARGING STATION  
1"=1'



5 FLAG POLE PLAN ENLARGEMENT  
1/4"=1'

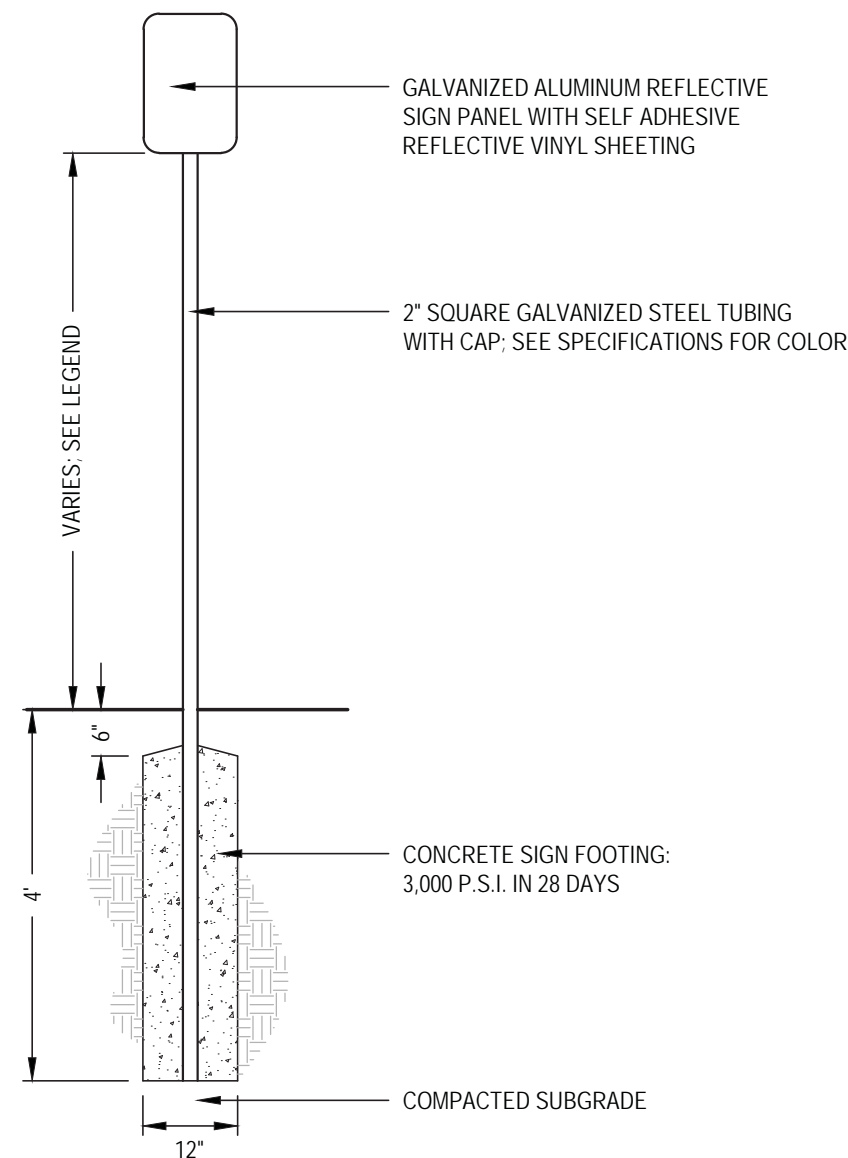


6 FLAG POLE BASE  
1/2"=1'-0"



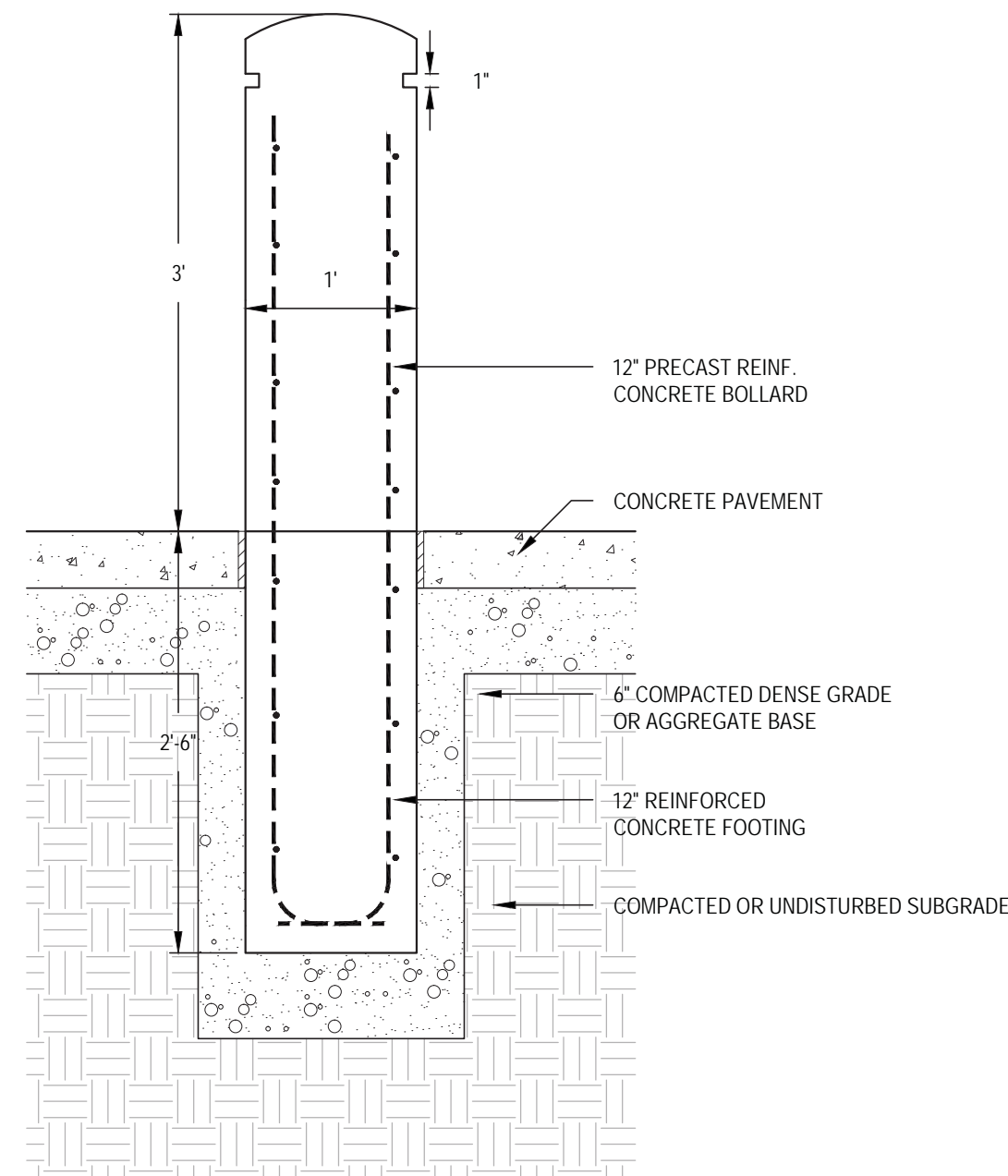
NOTES:  
1. SEE THE SPECIFICATIONS FOR ALTERNATIVE TRASH RECEPTACLE SELECTIONS.  
2. SECURE TRASH RECEPTACLE TO AN 24"x24"x4" CONCRETE SLAB OR EXPANSE OF CONCRETE PAVEMENT (SEE PLAN) IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

7 WASTE RECEPTACLE  
1"=1'-0"

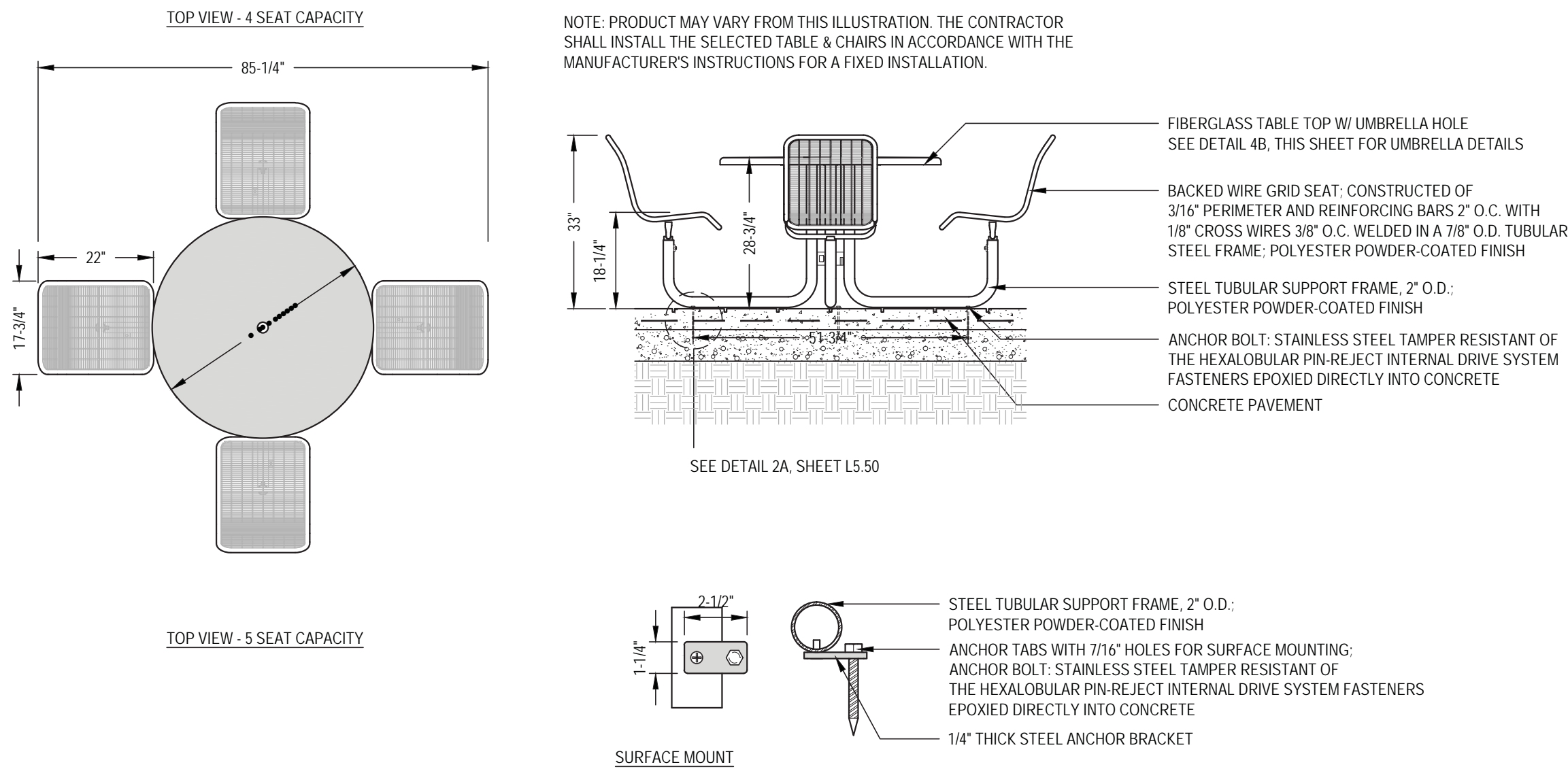


8 TRAFFIC SIGN  
1/2"=1'-0"

NOTES:  
INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

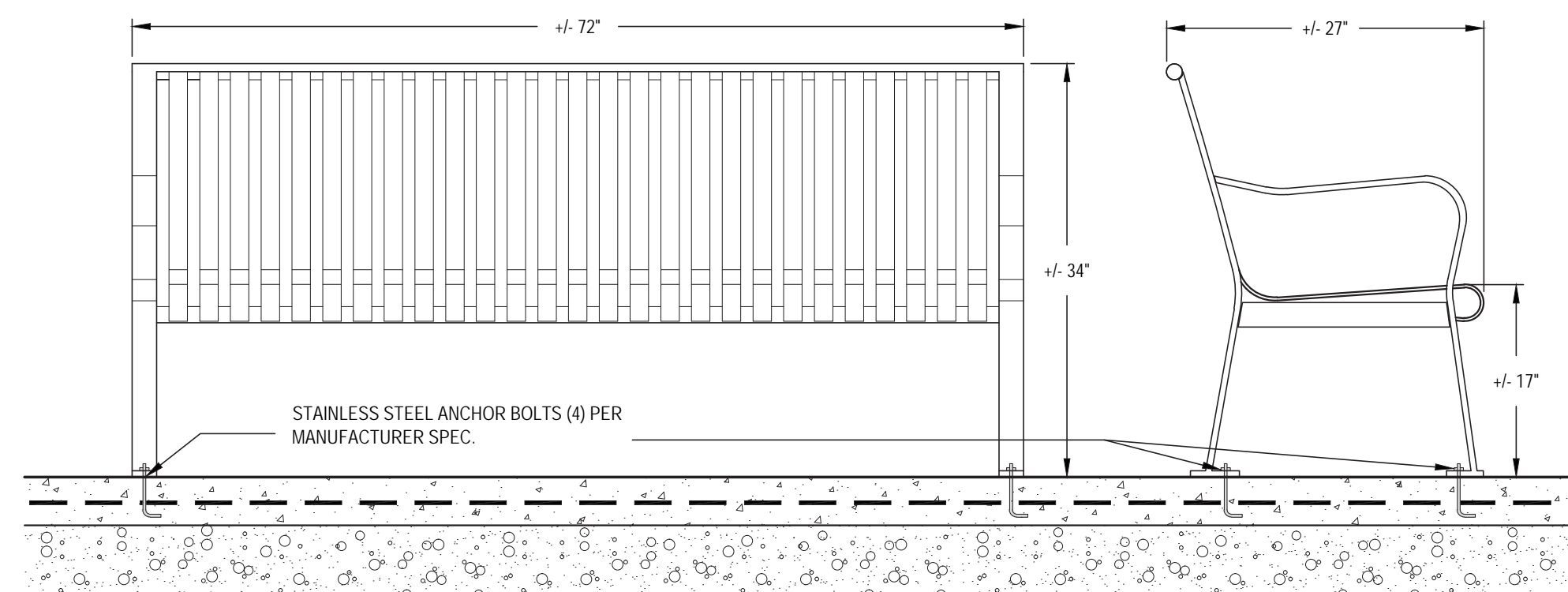


9 CONCRETE FILLED BOLLARD  
1"=1'



10 TERRACE TABLES AND CHAIRS  
1/2"=1'-0"

NOTES:  
1. SEE SPECIFICATIONS FOR ALTERNATIVE BENCH SELECTIONS.  
2. ALL JOINTS SHALL BE FULLY WELDED THROUGHOUT.  
3. PROVIDE 30"x76"x4" REINFORCED CONCRETE BASES OVER 4" COMPACTED GRAVEL BASE WHERE BENCH IS NOT INSTALLED ON EXPANSE OF CONCRETE PAVEMENT.  
4. BENCHES WILL BE SECURED TO CONCRETE BASE WITH A 5/8" ANCHOR BOLT IN EACH ANCHOR BOLT HOLE (4), OR IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.  
5. PRODUCT MAY VARY FROM THIS ILLUSTRATION. THE CONTRACTOR SHALL INSTALL THE SELECTED BENCH IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR A FIXED INSTALLATION.



11 BENCH  
1"=1'-0"

## SMAST II, University of Massachusetts, Dartmouth

### Umass Building Authority (UMBA)

Project Number 11-D1

Hill International, Inc.  
Owner's Project Manager

330 Congress Street,  
Boston, MA 02210  
T 617 778-0900

Ellenzweig  
Architects | Planners

230 Congress Street  
Boston, MA 02110  
T 617 491-5575  
F 617 868-2318

Lin Associates, Inc.  
Structural Engineer

2001 Beacon Street,  
Brighton, MA 02135  
T 617 566-4216

BR+A Consulting Engineers  
MEP/IT/Security Engineer

10 Guest Street  
Boston, MA 02135  
T 617 254-0016  
F 617 924-9339

Fernandez & Associates  
Fire Protection Engineer

63 Larkin Road  
Byfield, MA 01922  
T 978 499-0172  
F 978 465-2371

TAG Engineering LLC  
Seawater Systems Consultant

P.O. Box 558  
Woods Hole, MA 02543  
T 508 362-0561

Nitsch Engineering  
Civil Engineer

2 Center Plaza, No.430  
Boston, MA 02138  
T 617 338-0063

Horiuchi Solien  
Landscape Architect

P.O. Box 914, 200 Main St.  
Falmouth, MA 02541  
T 508 540-5320  
F 508 540-8651

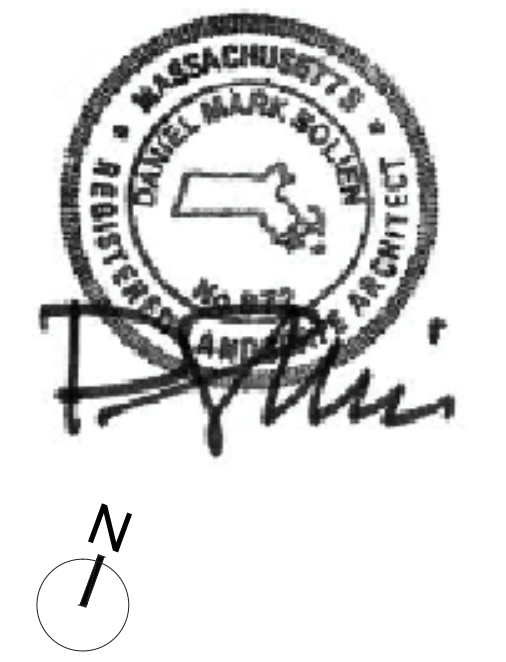
GZA GeoEnvironmental  
Geo-Environmental

133 Federal St.  
Boston, MA 02110  
T 617 963-1000  
F 617 4482-6868

Pieszak Lighting Design  
Lighting Design

123 Davis Ave.  
Brookline, MA 02445  
T 617 335-8597

Notes:



Project Number: JAM  
Drawing By: DMS  
Checked By: DMS  
Filename: 01/29/2016  
Issue Date:

Revisions:

No.	Date	Description
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## Construction Documents Progress Set

### Site Details

Construction Documents  
Scale: 1/8" = 1'-0"

L-5.1



SMAST II, University of  
Massachusetts, Dartmouth

Umass Building Authority  
(UMBA)

Project Number 11-D1

Hill International, Inc.  
Owner's Project Manager  
330 Congress Street,  
Boston, MA 02210  
T 617 778-0900

Ellenzweig  
Architects | Planners  
230 Congress Street  
Boston, MA 02110  
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Brighton, MA 02135  
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Woods Hole, MA 02543  
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Nitsch Engineering  
Civil Engineer  
2 Center Plaza, No.430  
Boston, MA 02138  
T 617 338-0063

Horiuchi Solien  
Landscape Architect  
P.O. Box 914, 200 Main St.  
Falmouth, MA 02541  
T 508 540-5320  
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GZA GeoEnvironmental  
Geo-Environmental  
133 Federal St.  
Boston, MA 02110  
T 617 963-1000  
F 617 4462-6868

Pieszak Lighting Design  
Lighting Design  
123 Davis Ave.  
Brookline, MA 02445  
T 617 335-8597

Notes:



Keyplan

Project Number: JAM  
Drawing By: DMS  
Checked By:  
Filename:  
Issue Date: 01/29/2016

Revisions:

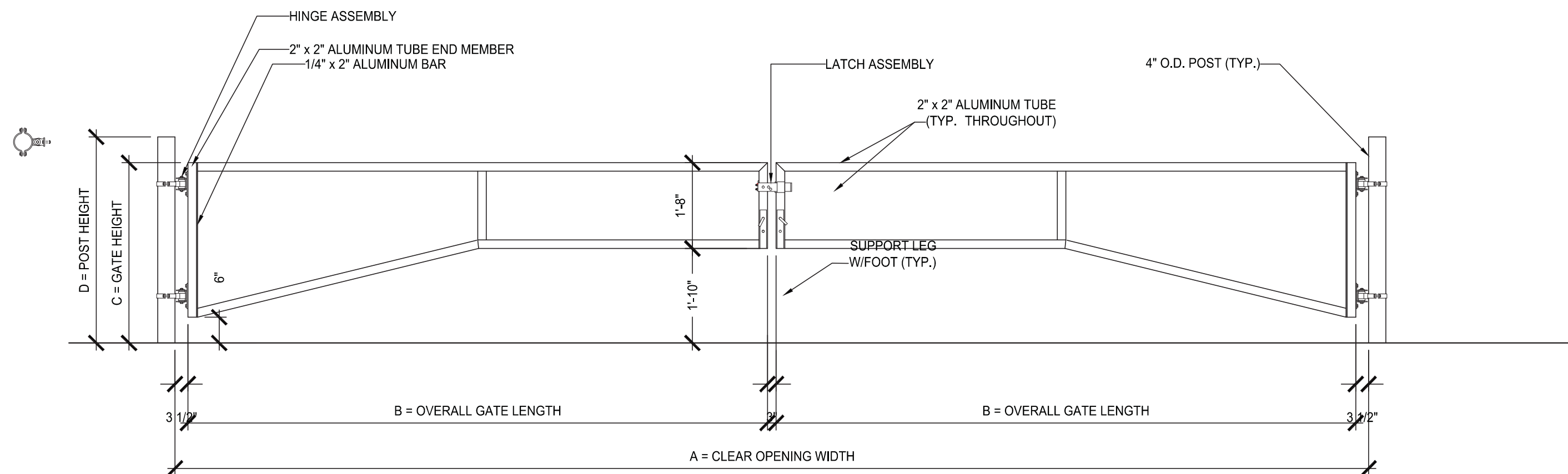
No.	Date	Description
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Construction Documents  
Progress Set

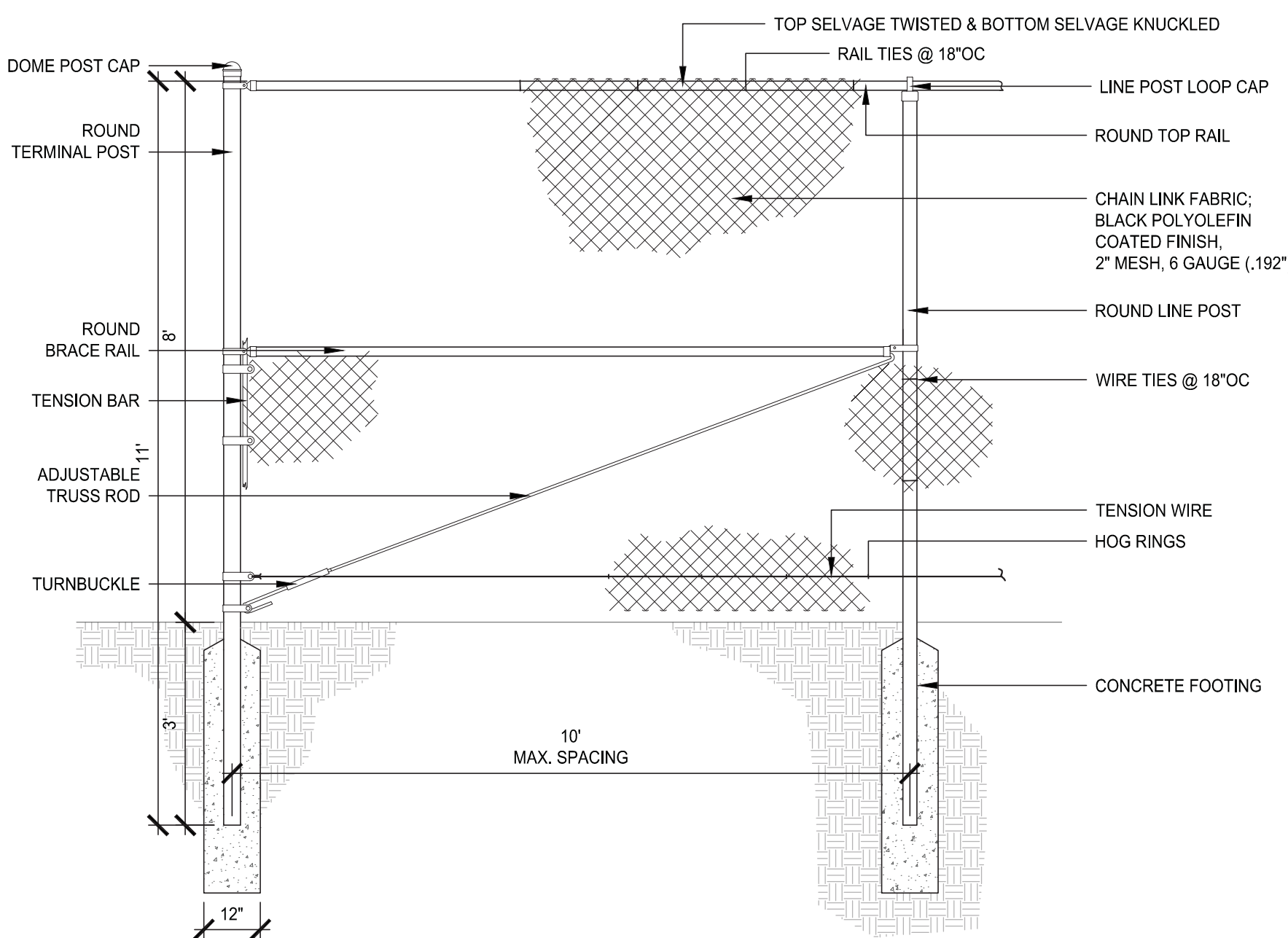
Site Details

Construction Documents  
Scale: 1/8" = 1'-0"

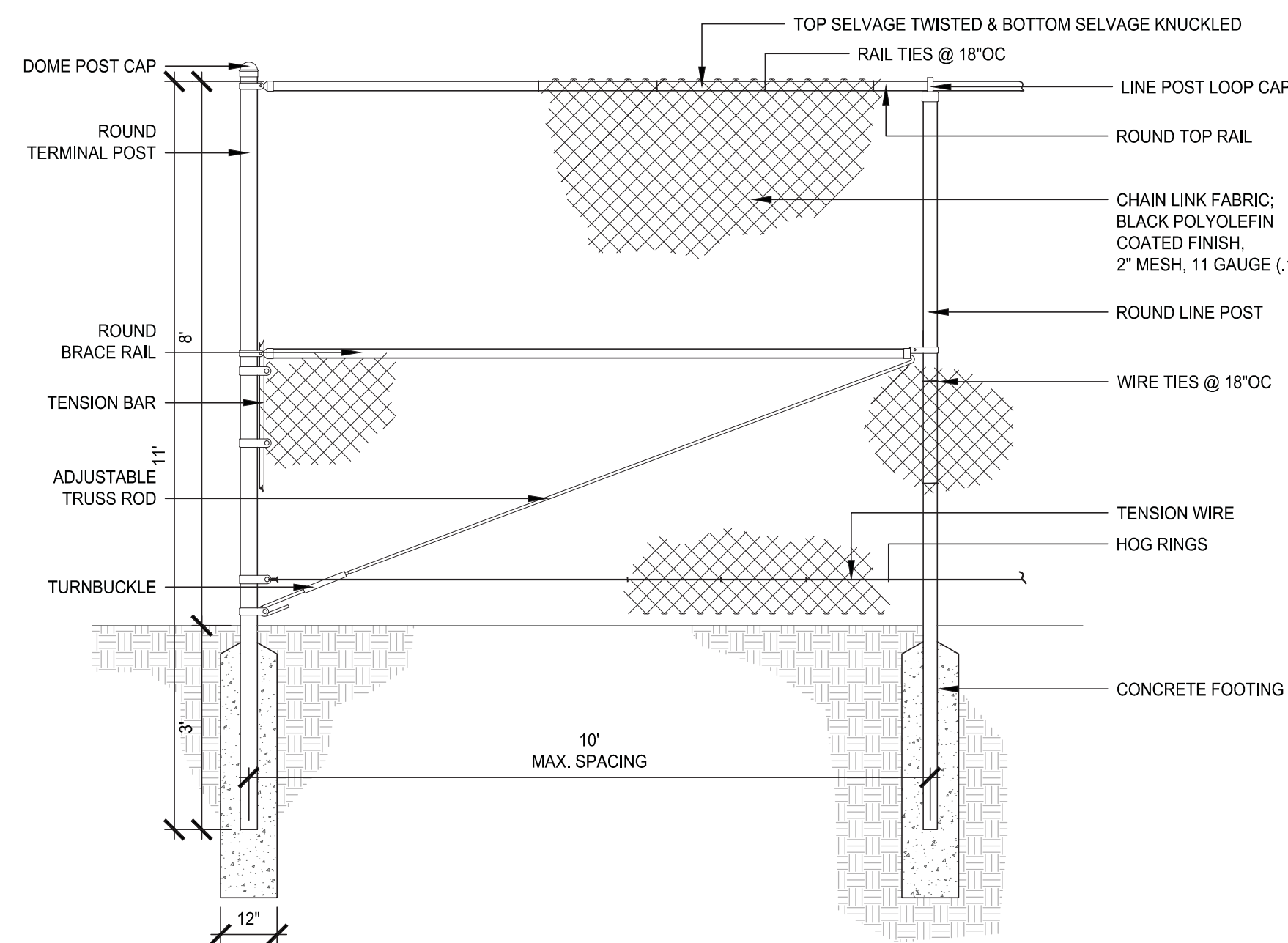
L-5.2



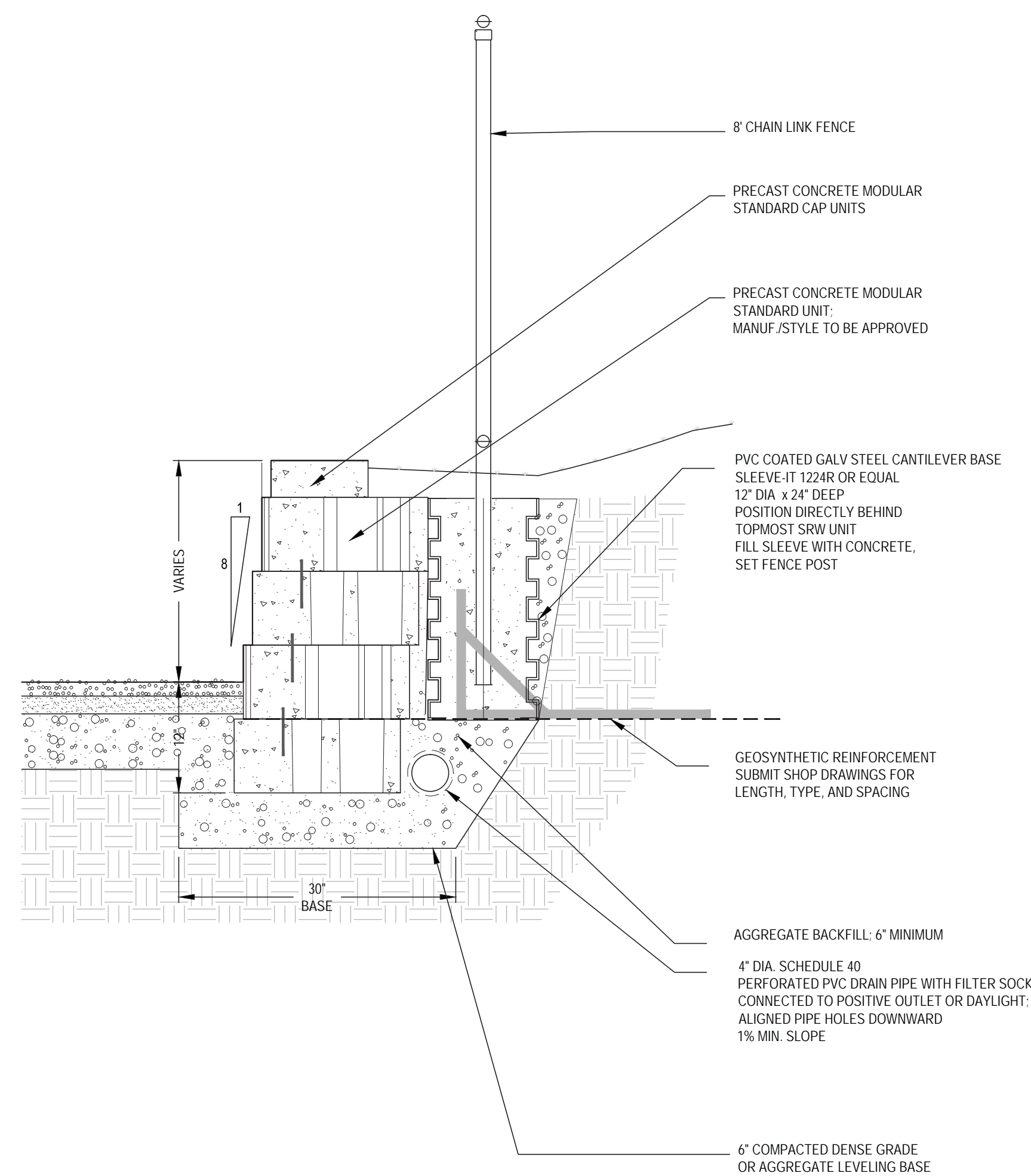
1 MANUAL BARRIER SWING GATE - SMAST 1



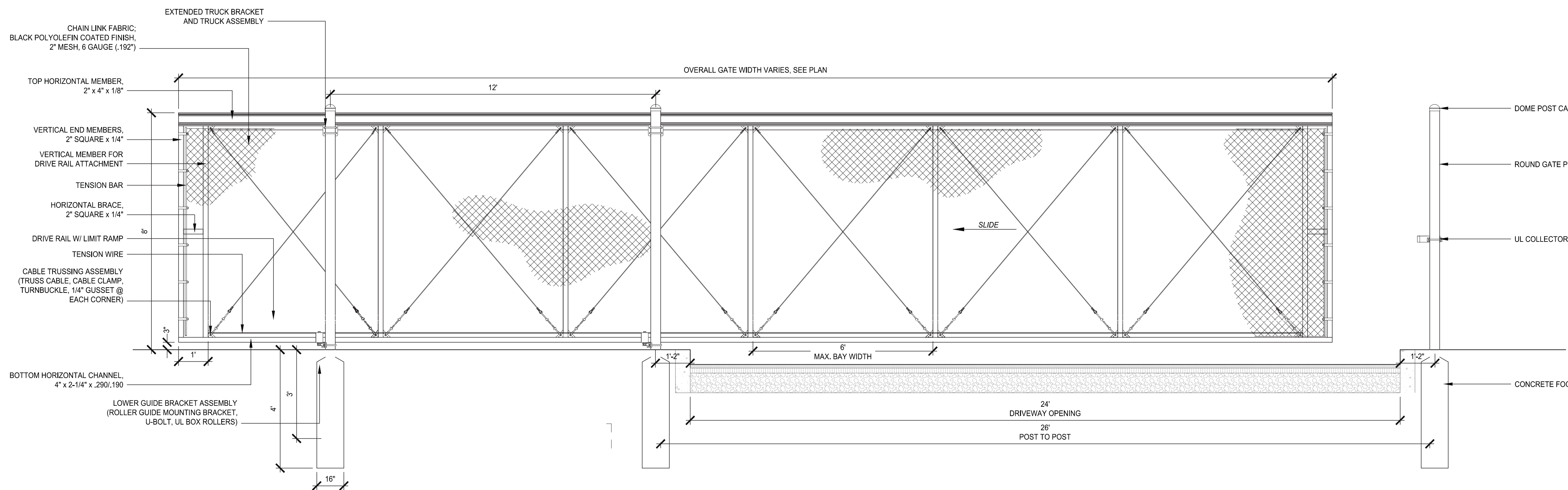
2 8' TALL HIGH SECURITY FENCE



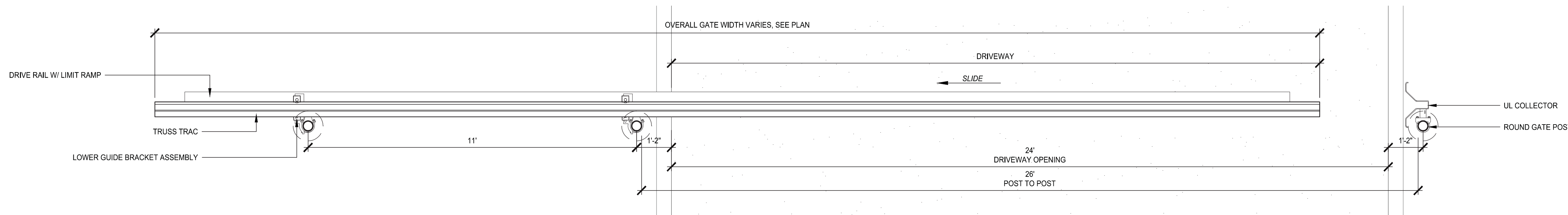
3 8' TALL MEDIUM SECURITY FENCE



4 8' CHAIN LINK FENCE AT SEGMENTAL CONCRETE RET WALL



ELEVATION VIEW



PLAN VIEW

5 MEDIUM SECURITY SLIDING GATES



## Project Number 11-D1

Pieszak Lighting Design  
Lighting Design

123 Davis Ave.  
Brookline, MA 02445  
T 617 335-8597

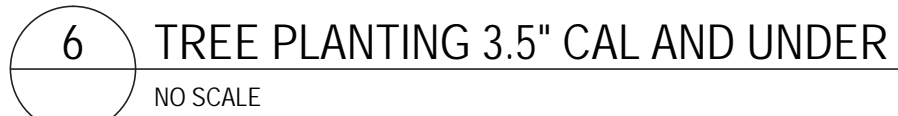
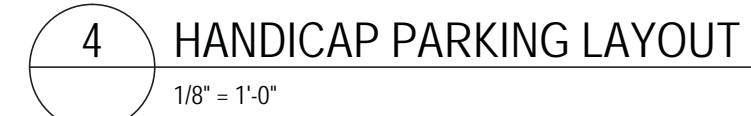
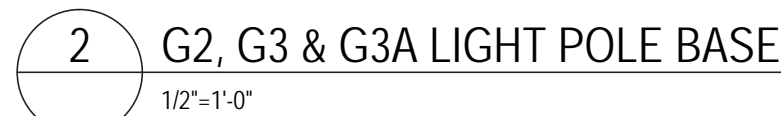
### Keyplan

Revisions:

No.	Date	Description
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## Site Details

## L-5.3





Hill International, Inc.  
Owner's Project Manager  
330 Congress Street,  
Boston, MA 02210  
T 617 778-0900

Ellenzweig  
Architects | Planners  
230 Congress Street  
Boston, MA 02110  
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Pieszak Lighting Design  
Lighting Design  
123 Davis Ave.  
Brookline, MA 02445  
T 617 335-8597

Notes:

Project Number: 31206  
Drawing By: Author  
Checked By: Checker  
Filename:  
Issue Date: 01/29/16

Revisions:  
No. Date Description

Construction Documents  
Progress Set

PUMP HOUSE

Construction Documents  
Scale: 1/4" = 1'-0"

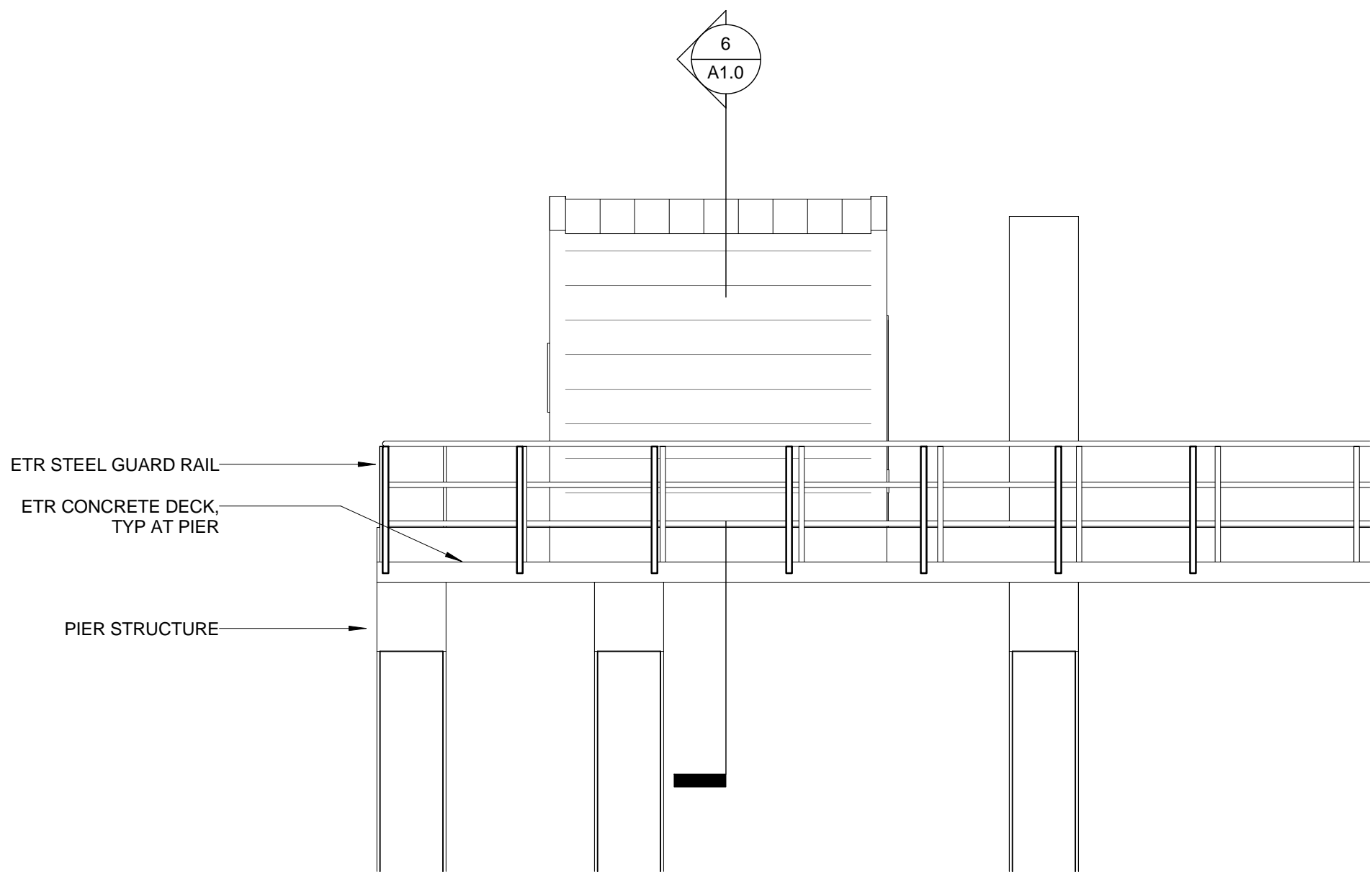
A1.0

PUMP HOUSE GENERAL NOTES:

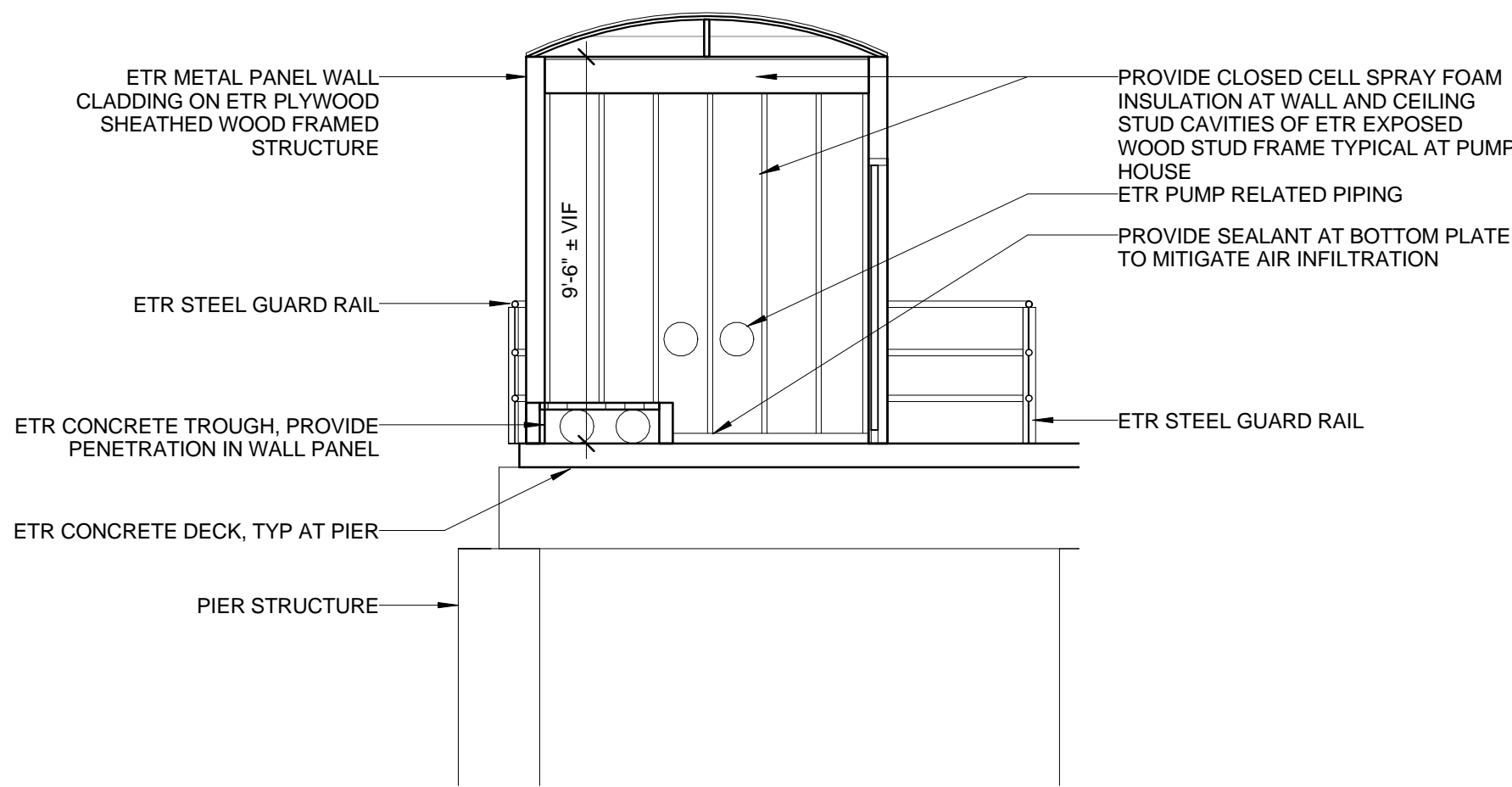
REMOVE ALL ELECTRICAL DEVICES, CONDUITS  
AND ACCESSORIES PRIOR TO APPLICATION OF  
SPRAY FOAM INSULATION. COORDINATE  
ELECTRICAL WORK WITH MEP DRAWINGS AND  
SEA WATER DRAWINGS.

SAFELY STORE ALL ITEMS INDICATED FOR RE-USE

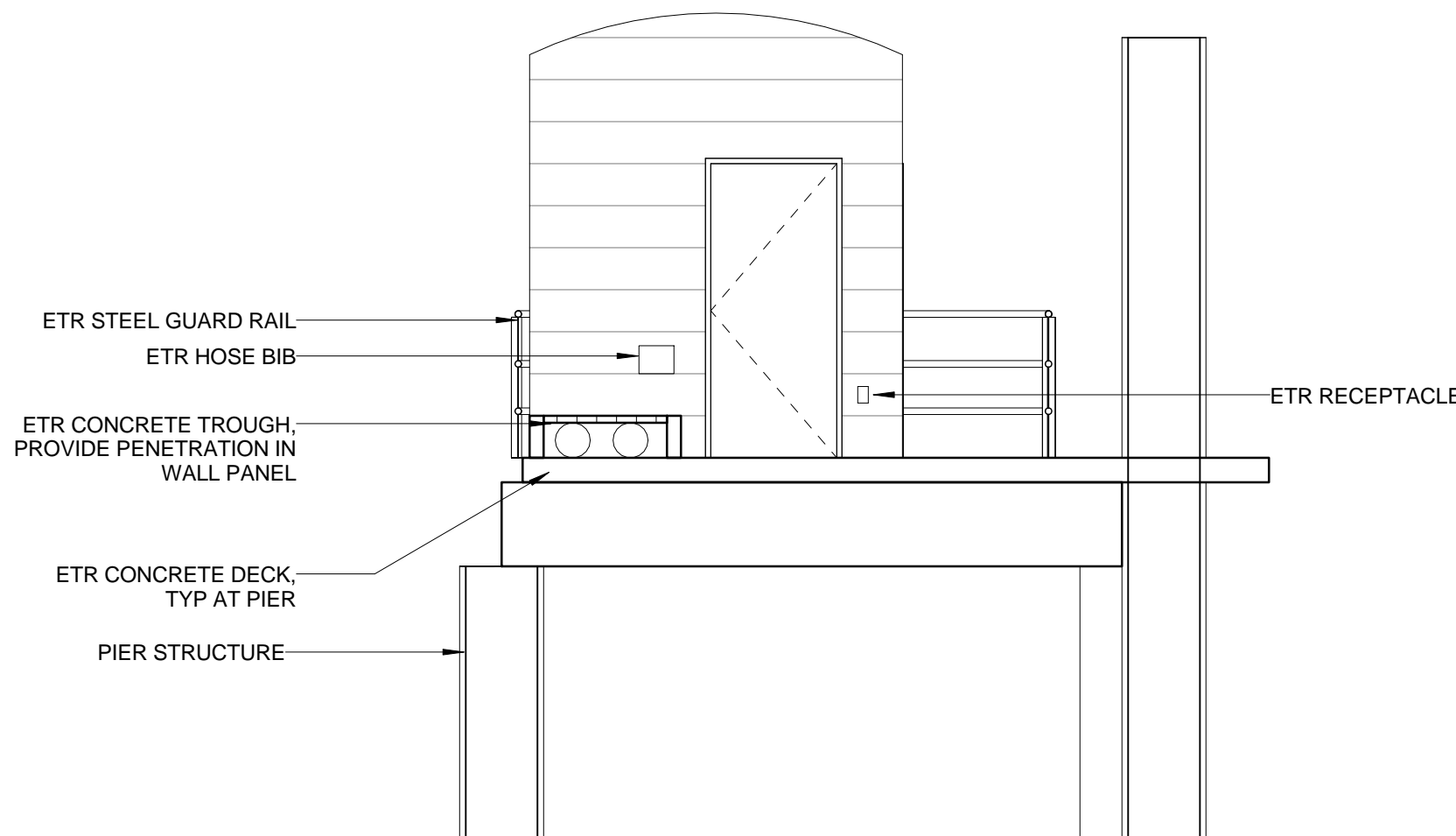
PROVIDE PAINTED STEEL GUARD AT EXISTING  
GAPS IN RAILING, FASTENING AS REQUIRED TO  
MATCH EXISTING, RAIL PATTERN TO MATCH  
EXISTING



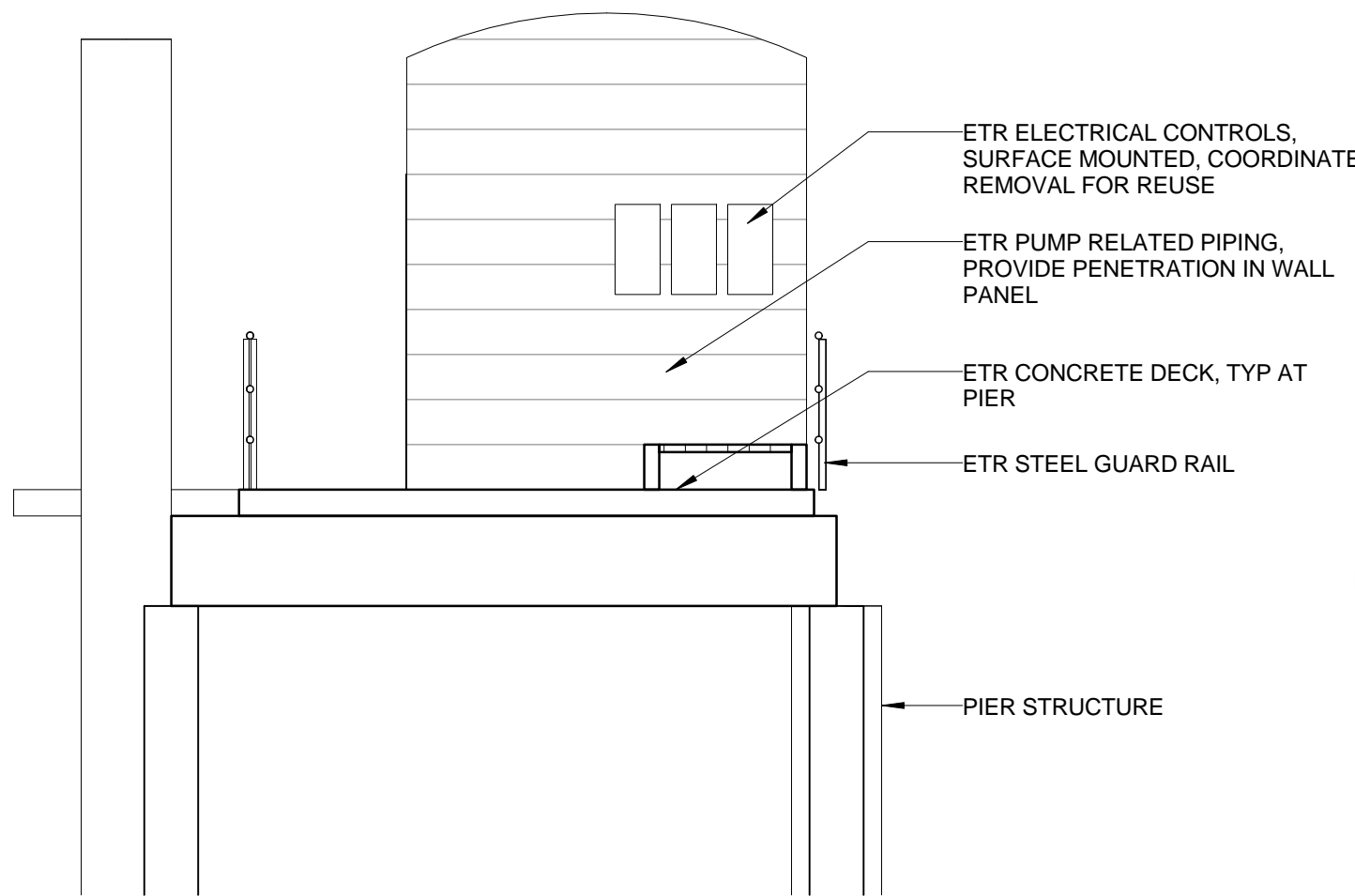
4 PUMP HOUSE SOUTH ELEVATION  
Scale: 1/4" = 1'-0"



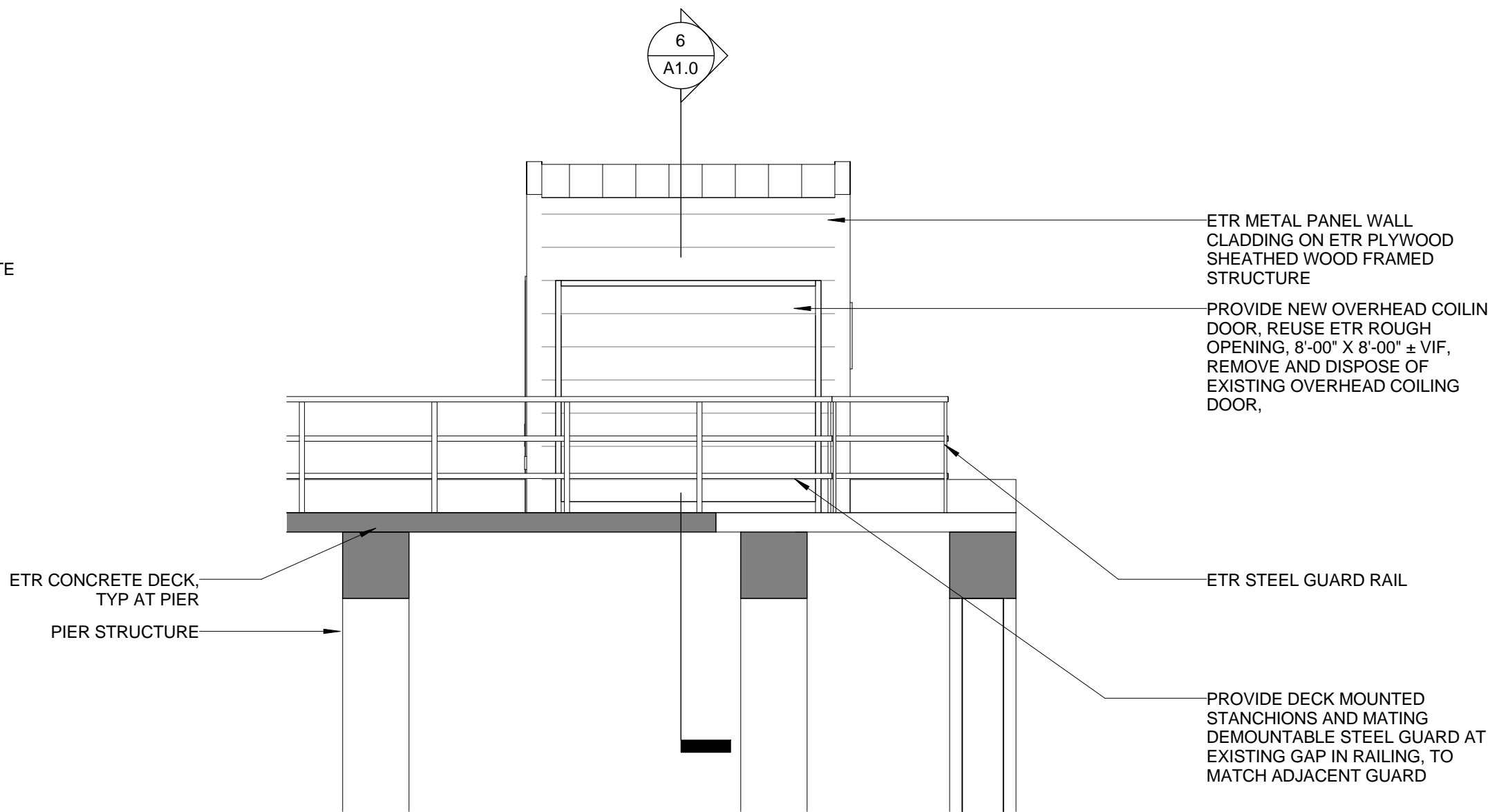
6 PUMP HOUSE SECTION  
Scale: 1/4" = 1'-0"



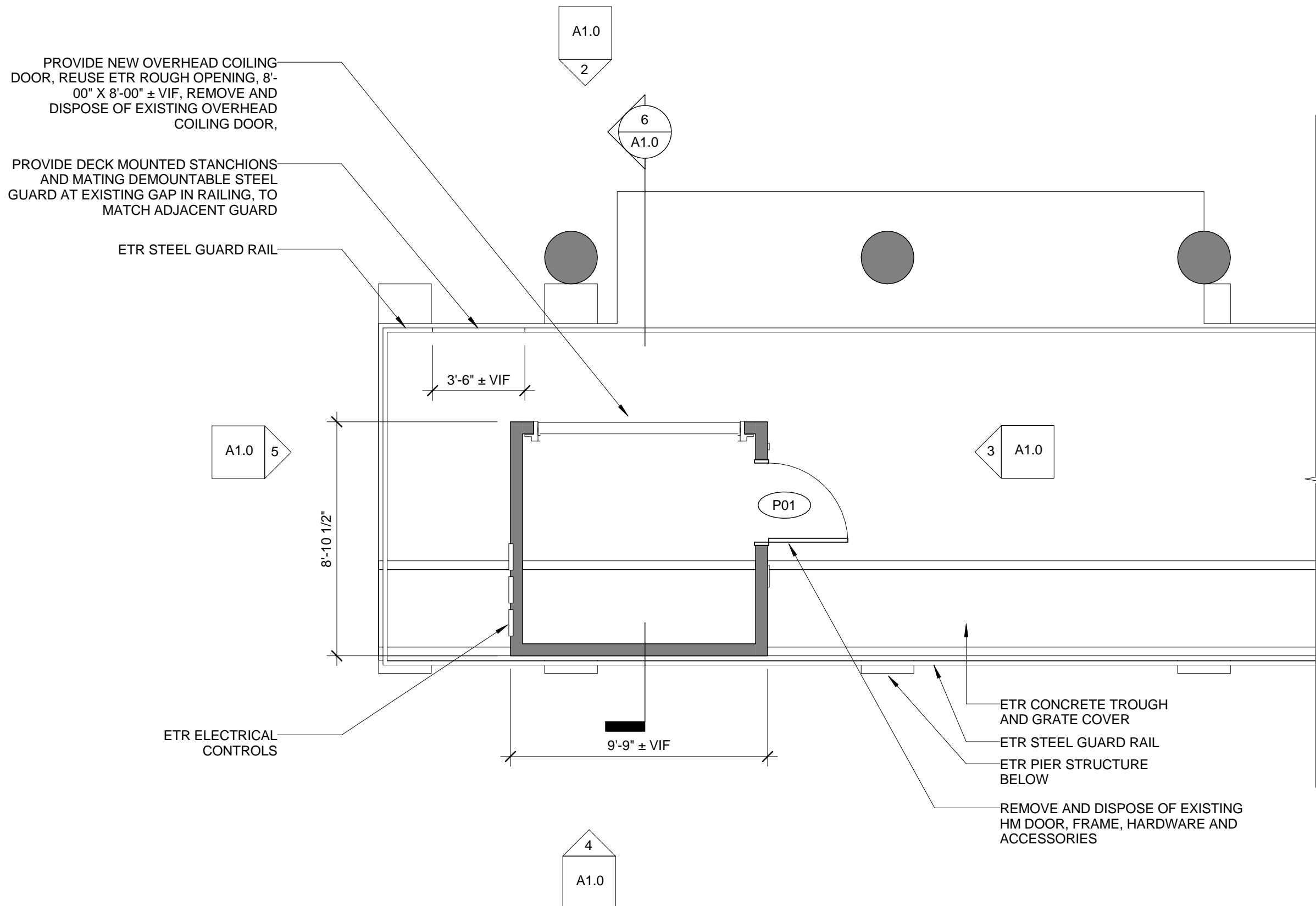
3 PUMP HOUSE EAST ELEVATION  
Scale: 1/4" = 1'-0"



5 PUMP HOUSE WEST ELEVATION  
Scale: 1/4" = 1'-0"



2 PUMP HOUSE NORTH ELEVATION  
Scale: 1/4" = 1'-0"



1 PUMP HOUSE PLAN  
Scale: 1/4" = 1'-0"