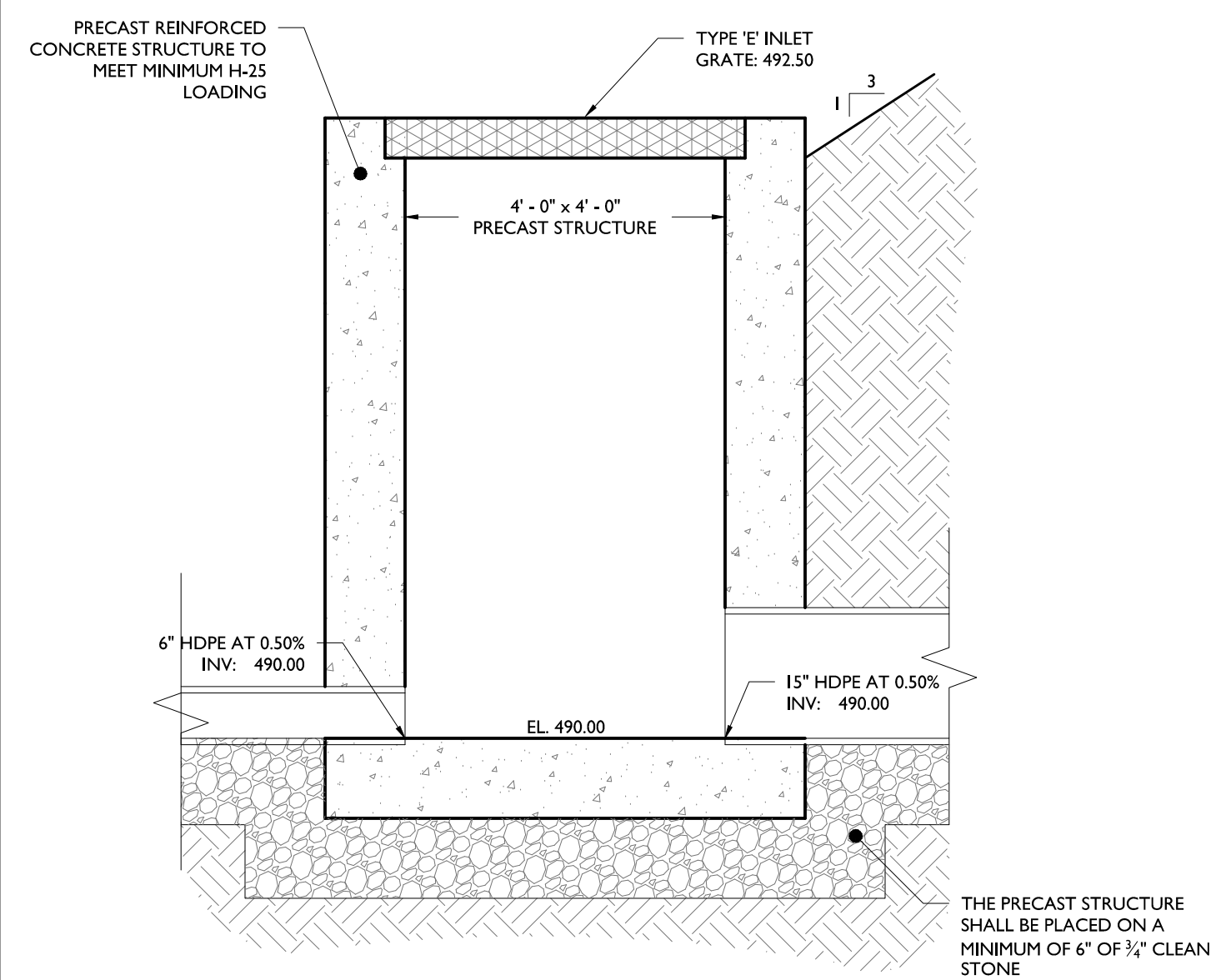


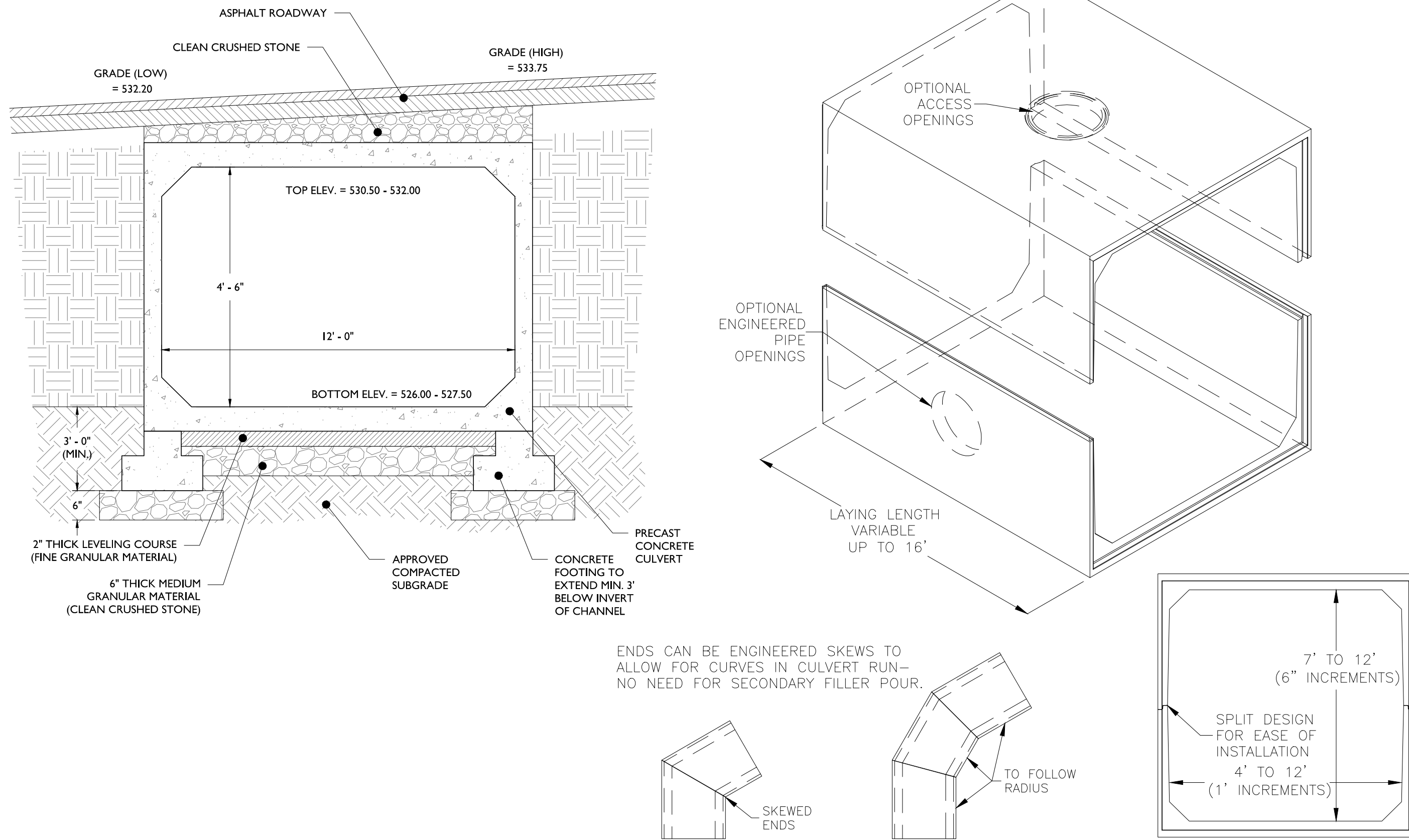


ABOVEGROUND OUTLET STRUCTURE
(OS-2 & OS-3) DETAIL

NOT TO SCALE

NOTES

1. STRUCTURE TO BE CONSTRUCTED OF REINFORCED PRECAST CONCRETE.
2. FRAME AND GRATE TO BE CAST-IRON AND SUPPORT MINIMUM H-25 LOADING.
3. ALL JOINTS TO BE WATER-TIGHT.
4. SUBGRADE BENEATH STRUCTURE SHALL BE LEVELED AND COMPACTED AS NECESSARY PRIOR TO INSTALLING STRUCTURE.



ANDS CAN BE ENGINEERED SKEWS TO
ALLOW FOR CURVES IN CULVERT RUN-
TO NEED FOR SECONDARY FILLER POUR.

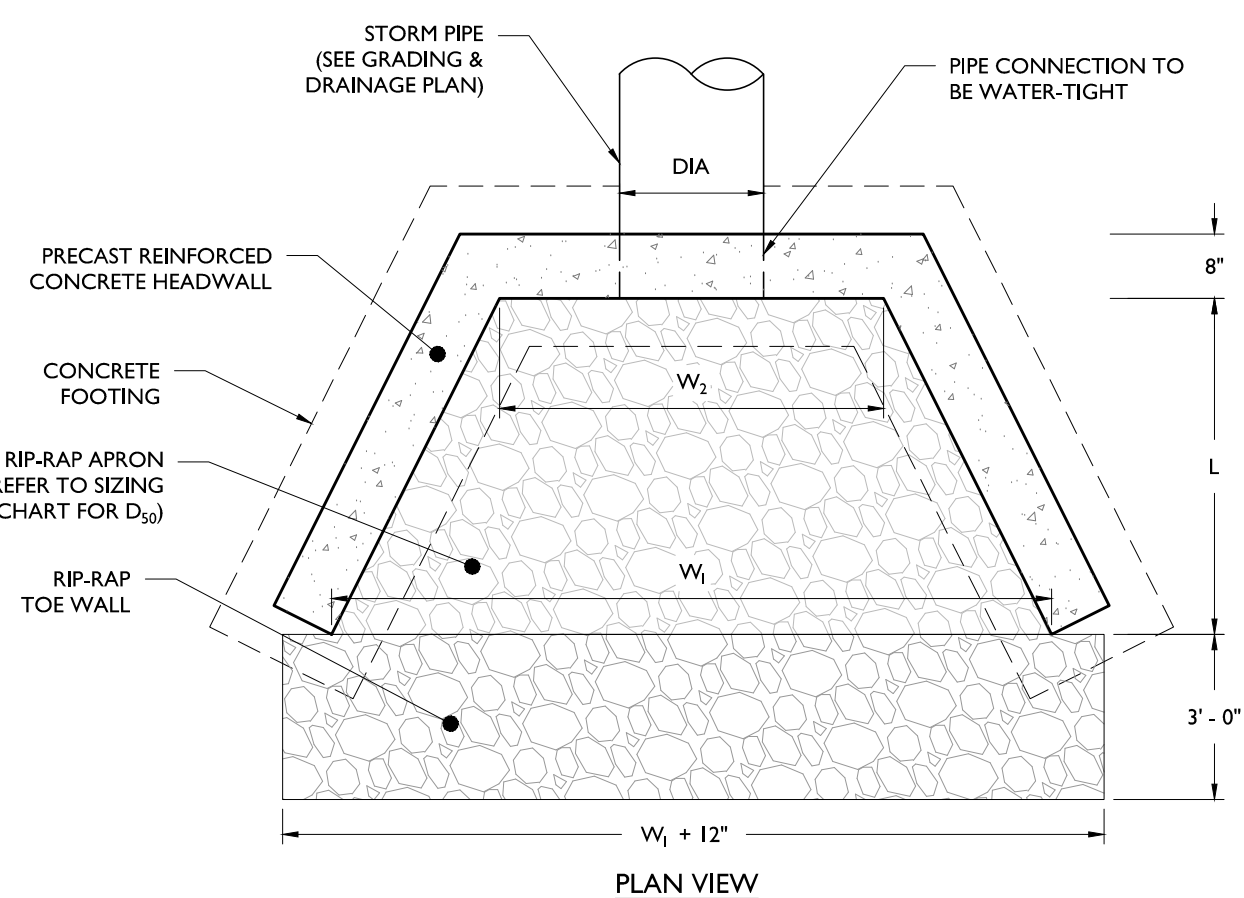
CULVERT TO BE JENSEN PRECAST SEGMENTAL BOX CULVERT TYPE 2 OR APPROVED EQUIVALENT.

STANDARD DESIGNS AVAILABLE MEETING ASTM C1786 HL-93 OR AASHTO HS20 IN ACCORDANCE WITH AASHTO SPECIFICATIONS

PRECAST CONCRETE BOX CULVERT DETAIL

NOT TO SCALE

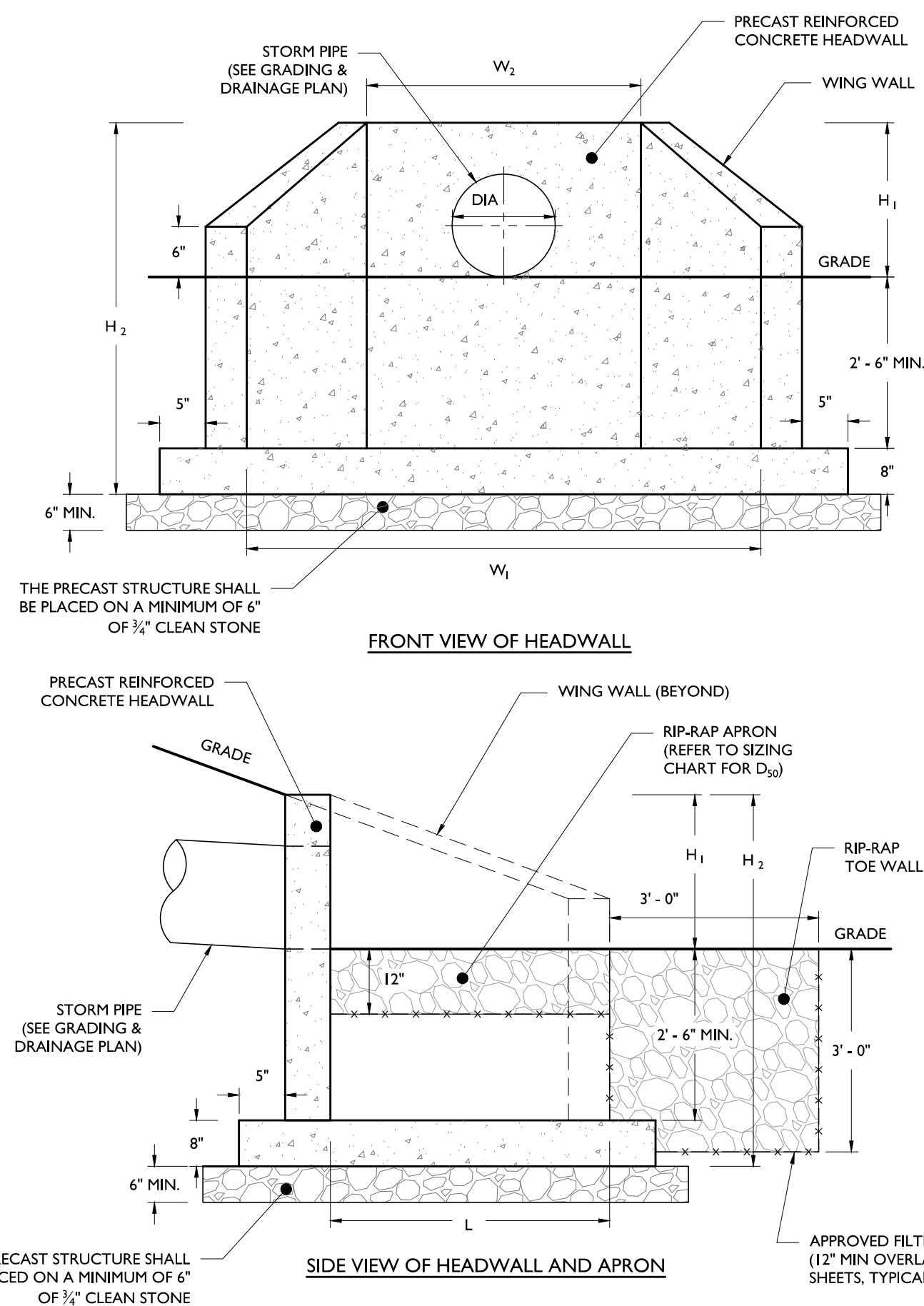
2



SIZING CHART							
HW #	DIA(in)	L (ft)	W ₁ (ft)	W ₂ (ft)	H ₁ (ft)	H ₂ (ft)	D ₅₀ (in)
W-1	42"	9.0	4.0	9.0	4.0	7.0	6.0
W-2	42"	6.0	4.0	16.0	4.0	7.0	6.0

NOTES

1. CONCRETE TO BE 4,000 PSI AT 28 DAYS.
2. REINFORCEMENT TO CONFORM TO ASTM A-615, GRADE 60 AND ASTM A-185.
3. DIMENSIONS SHOWN ARE MINIMUMS REQUIRED. SEE GRADING & DRAINAGE PLAN.
4. SUBGRADE BENEATH FOOTING SHALL BE LEVELED AND COMPACTED AS NECESSARY PRIOR TO INSTALLING STRUCTURE.
5. TIE WALLS TO BE PROVIDED AT ALL OUTLETS ADJACENT TO EXISTING CHANNEL.
6. RIP-RAP APRON THICKNESS SHALL BE TWO TIMES THE D_{50} SIZE FOR THE APRON.



THE PRECAST STRUCTURE SHALL
BE PLACED ON A MINIMUM OF 6"
OF 3/4" CLEAN STONE

CONCRETE HEADWALL AND RIP-RAP APRON DETAIL

NOT TO SCALE

4

NEW for 2020!



Code Blue®

The **CB 2-e** has been redesigned to make it easier to install and more economical.

One of Code Blue's most popular wall-mounted Help Points®, the CB 2-e features a lightweight, two-piece design that makes installation and maintenance easy for a single person. Additionally, it delivers a

4-inch depth that is slim enough to be ADA compliant on any wall, making it an ideal match for high-traffic areas like parking garages, building entrances and more.

Features:

- Slimmed down to ADA-compliant 4-inch depth
- Two-piece construction for easy installation
- Lighter gauge stainless steel
- Economical
- Short lead times
- Available in wet coat paint colors or optional powder coat safety blue



The image shows three units side-by-side for comparison. On the left is the 'New and Improved CB 2-e', which is a tall, slim unit with a blue 'Assistance' label and a red 'PRESS FOR HELP' button. Below it is a dimension line indicating a width of 4 inches. In the middle is the 'Legacy CB 2-e', which is a much narrower unit with a blue 'Assistance' label. On the right is another 'Legacy CB 2-e', which is a tall unit with a blue 'Emergency' label and a red heart symbol. Below it is a dimension line indicating a width of 7.68 inches.

New and Improved CB 2-e **Legacy CB 2-e**

The **Legacy CB 2-e** design is still available as a modification.

- **Note:** More costly
- PAS, AED Housing options also remain available



The image shows three units side-by-side for comparison. On the left is the 'New and Improved CB 2-e', which is a tall, slim unit with a blue 'Assistance' label and a red 'PRESS FOR HELP' button. In the middle is the 'Legacy CB 2-e', which is a much narrower unit with a blue 'Assistance' label. On the right is another 'Legacy CB 2-e', which is a tall unit with a red 'Emergency' label and a red heart symbol.

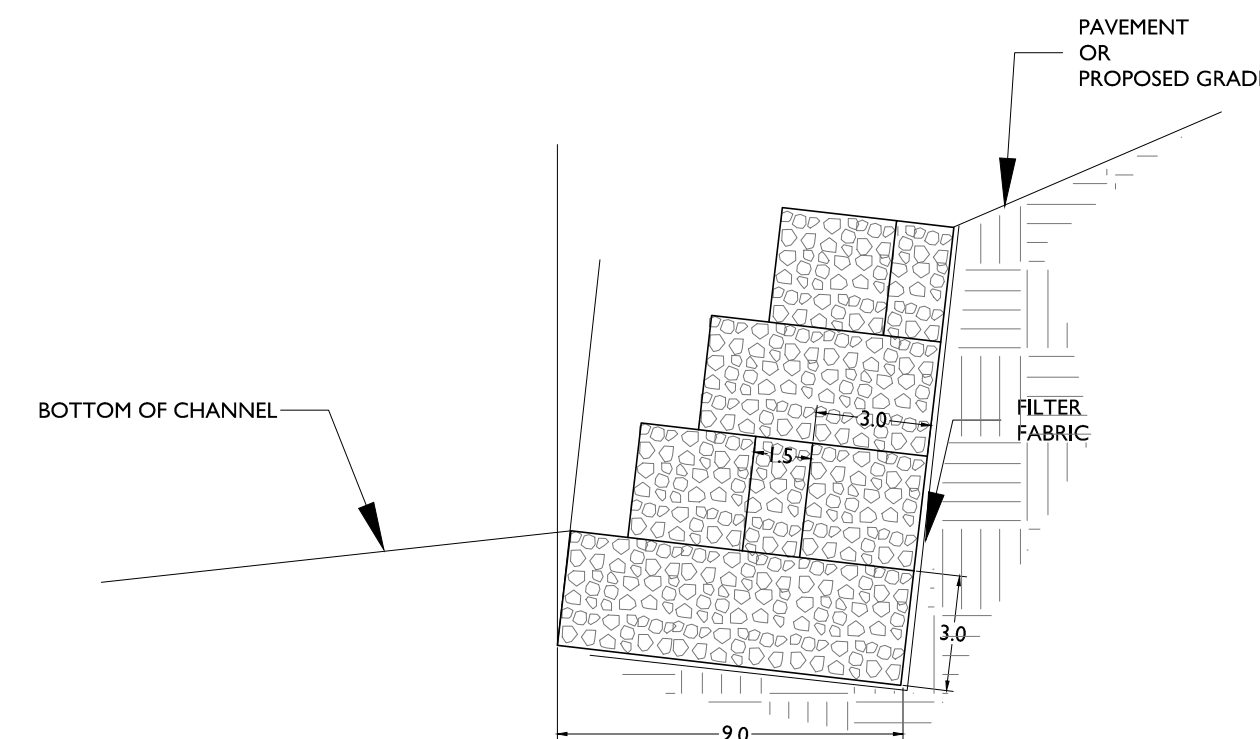
New and Improved CB 2-e **Legacy CB 2-e**

Visit codeblue.com or call 800-205-7186 to learn more.

MC-267-A

MK-267-

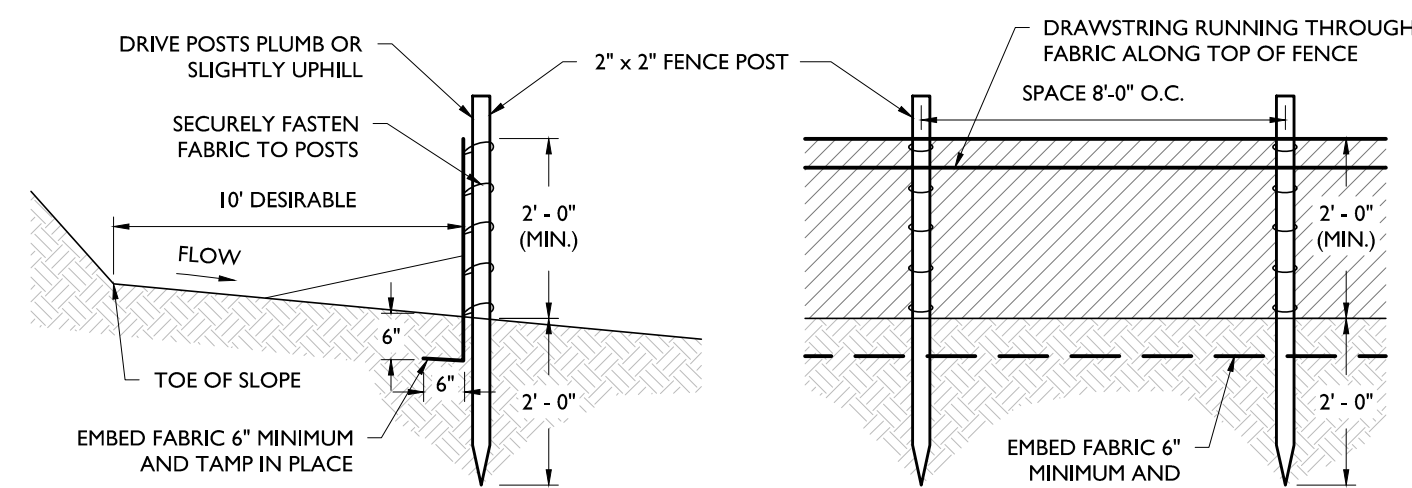
5



GABION WALL DETAIL

NOT TO SCALE

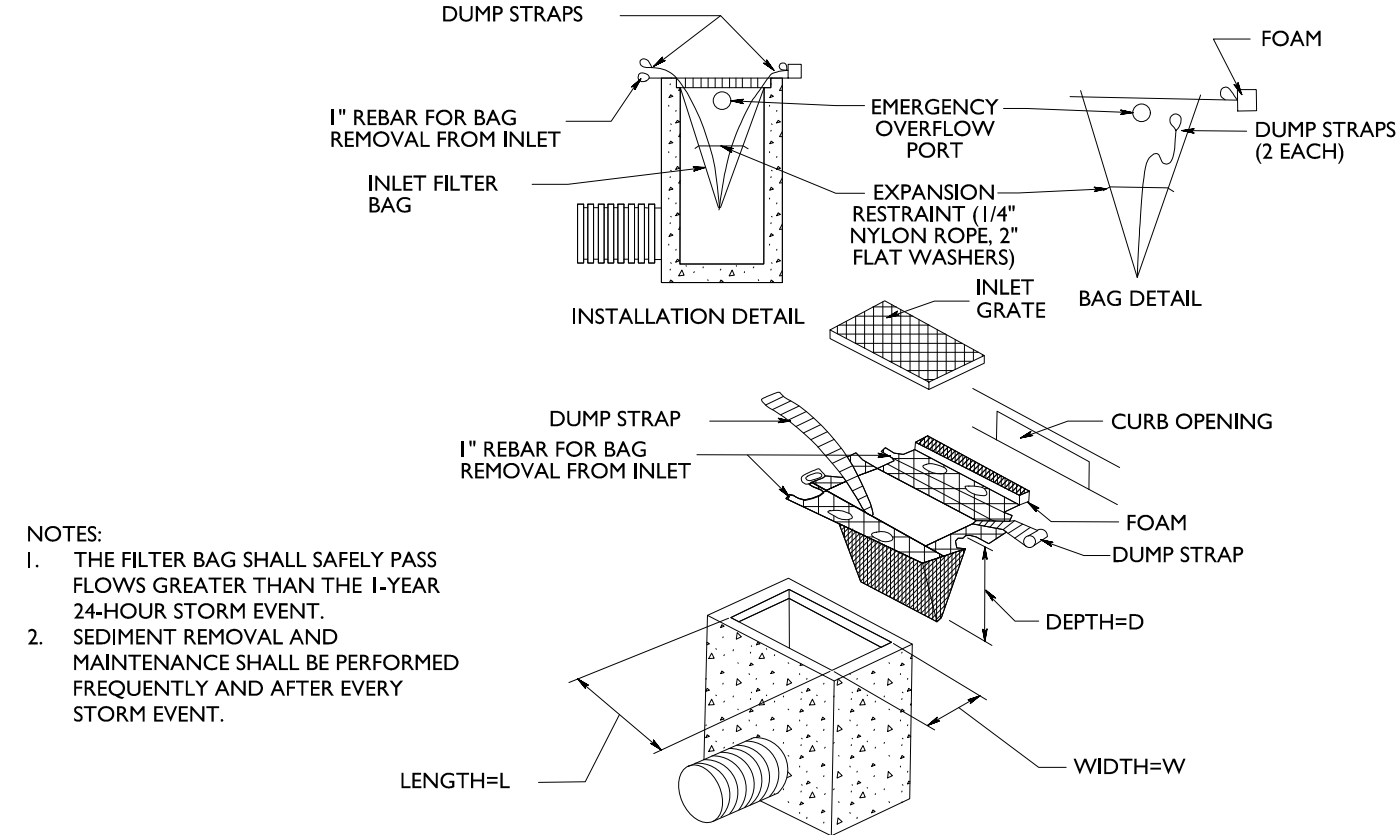
3



- NOTES:
1. SECURELY FASTEN GEOTEXTILE TO FENCE POST BY USE OF WIRE TIES, HOG RINGS, STAPLES OR POCKETS. FOUR TO SIX FASTENERS PER POST.
 2. GEOTEXTILE FABRIC TO BE EMBEDDED 6" (MIN.) AND TAMP IN PLACE.
 3. SECURELY FASTEN ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE TO A POST BY WRAPPING EACH END OF THE GEOTEXTILE AROUND THE POST TWICE AND ATTACHING AS SPECIFIED IN NOTE 1 ABOVE. SPLICING OF INDIVIDUAL ROLLS SHALL NOT OCCUR AT LOW POINTS.
 4. SET SILT FENCE WITHIN PROJECT LIMITS. 10'-0" IS DESIRABLE.

SILT FENCE DETAIL

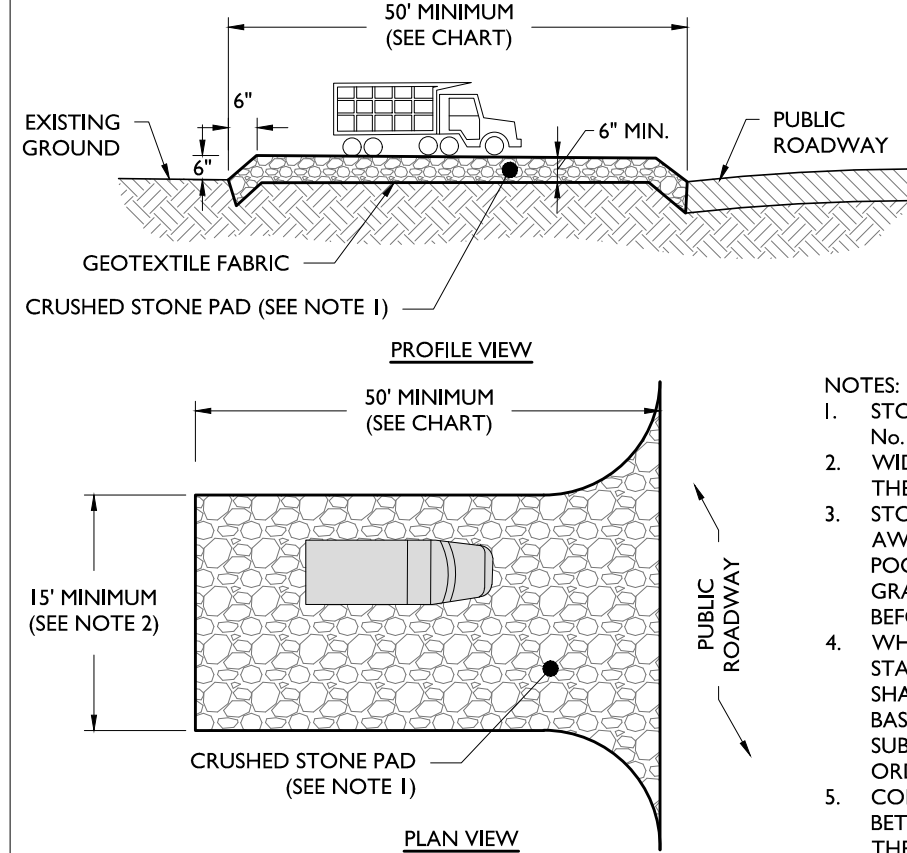
NOT TO SCALE



- NOTES:
1. THE FILTER BAG SHALL SAFELY PASS FLOWS GREATER THAN THE 1-YEAR 24-HOUR STORM EVENT.
 2. SEDIMENT REMOVAL AND MAINTENANCE SHALL BE PERFORMED FREQUENTLY AND AFTER EVERY STORM EVENT.

INLET FILTER BAG DETAIL

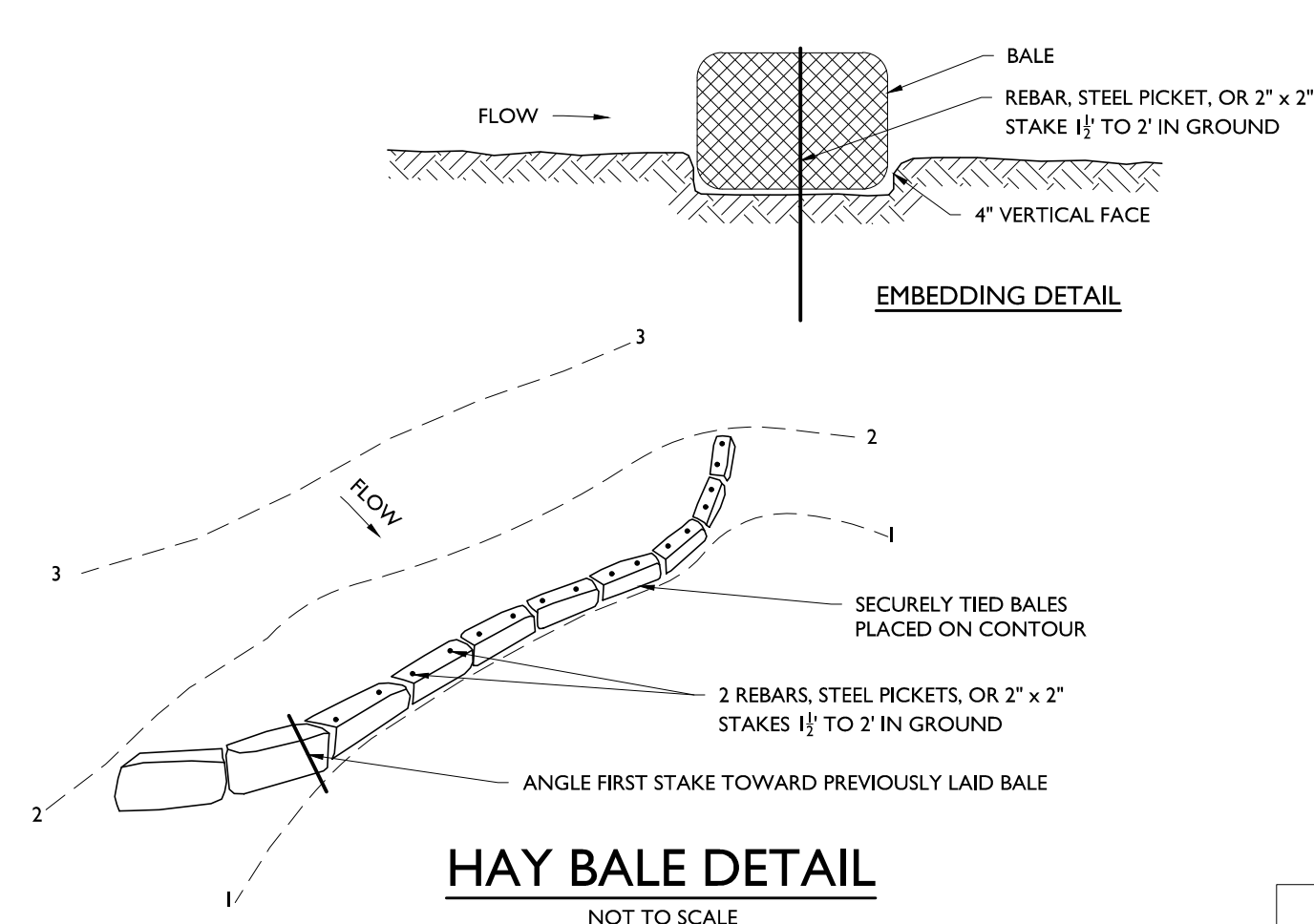
NOT TO SCALE



- NOTES:
1. STONE SHALL BE ASTM C-33, SIZE NO. 2 (2 1/2" TO 1 1/2") OR NO. 3 (2" TO 1") CLEAN CRUSHED ANGULAR STONE.
 2. WIDTH SHALL BE 15 INIMUM OR THE FULL WIDTH OF EXISTING PAVT. WHEN THE PAVT IS 15 FEET OR LESS, THE WIDTH SHALL BE 15 FEET.
 3. STORMWATER FROM UP-SLOPE AREAS SHALL BE DIVERTED AWAY FROM THE STABILIZED PAD, WHERE POSSIBLE. AT POORLY DRAINATED LOCATIONS, SUBSURFACE DRAINAGE GRAVEL FILTER OR GEOTEXTILE SHALL BE INSTALLED BEFORE THE STABILIZED CONSTRUCTION ENTRANCE.
 4. THE TOP OF THE STABILIZED PAD SHALL BE CROWNED 5% A STABILIZED BASE OF HOT MIX ASPHALT BASE COURSE SHALL BE INSTALLED. THE TYPE AND THICKNESS OF THE BASE COURSE AND USE OF DENSE GRADED AGGREGATE SUB-BASE SHALL BE AS PRESCRIBED BY LOCAL MUNICIPAL ORDINANCE OR GOVERNING AUTHORITY.
 5. CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN THE STABILIZED CONSTRUCTION ACCESS AND THE PUBLIC ROADWAY.

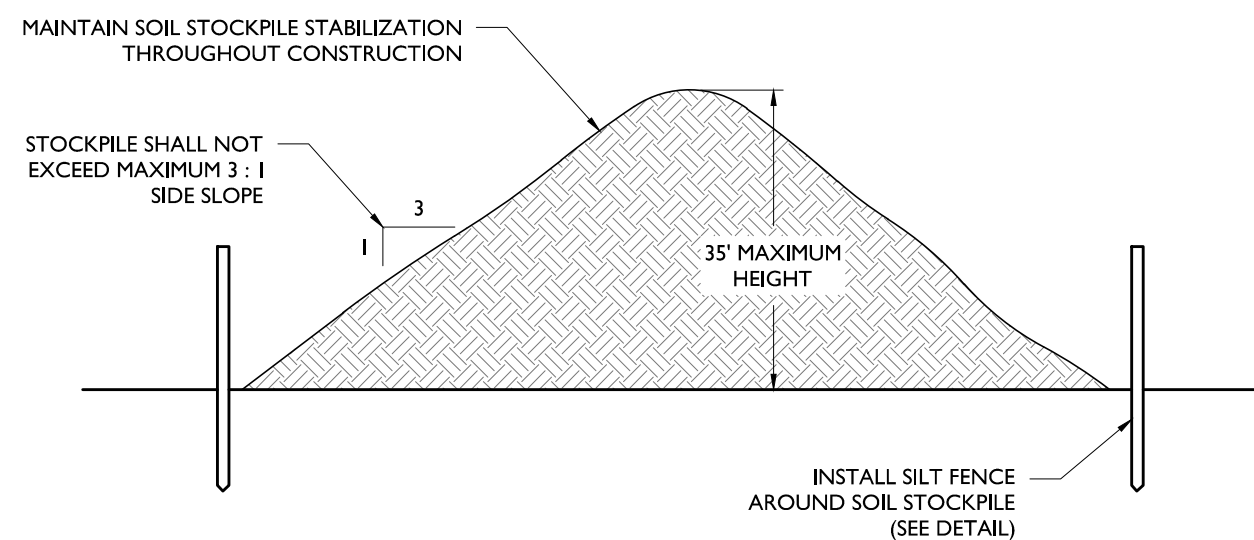
STABILIZED CONSTRUCTION ACCESS DETAIL

NOT TO SCALE



HAY BALE DETAIL

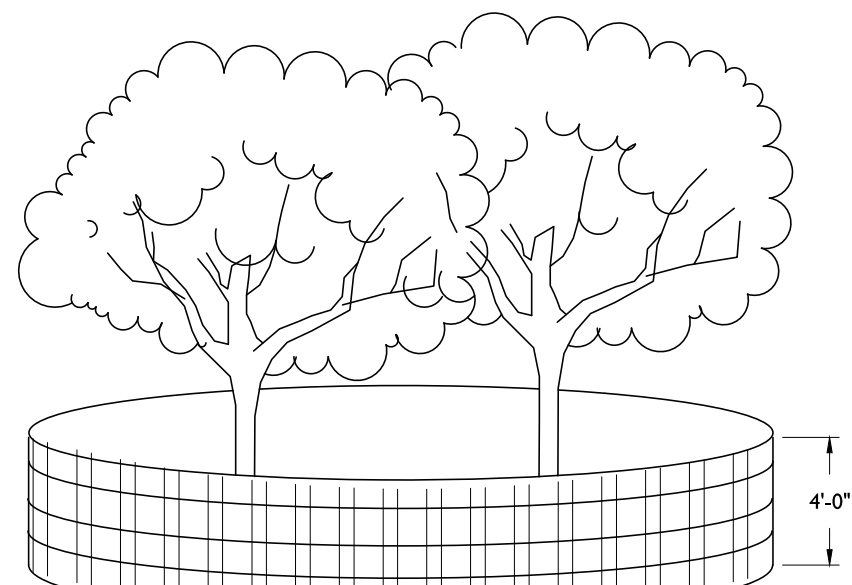
NOT TO SCALE



- NOTES:
1. STOCKPILES SHALL BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
 2. STOCKPILES SHALL BE STABILIZED IN ACCORDANCE WITH THE STANDARDS FOR PERMANENT OR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, AS APPROPRIATE (SEE SOIL EROSION NOTES).

SOIL STOCKPILE DETAIL

NOT TO SCALE



- NOTES:**
1. SNOW FENCING IS TO BE 4'-0" HIGH AND SELF SUPPORTED.
 2. DO NOT STOCKPILE MATERIALS OR STORE EQUIPMENT WITHIN THE TREE PROTECTION FENCING.
 3. SNOW FENCE TO BE INSTALLED AT DRIP LINE OF EXISTING TREE OR TREE CLUSTER TO BE PROTECTED OR NO CLOSER THAN 6' FROM TREE TRUNK IF NECESSARY.
 4. IF THE PROJECT AREA ENCOMPASSES A PORTION OF THE DRIP LINE OF THE TREE, NO MORE THAN ONE THIRD OF THE OF THE TOTAL AREA OF WITHIN THE DRIP LINE SHOULD BE DISTURBED BY CONSTRUCTION. OVERLAPPING AND A 3" THICK LAYER OF MULCH SHALL BE INSTALLED OVER THE AREA OF THE DRIP LINE WHICH IS NOT PROTECTED BY FENCING TO PROVIDE A CUSHION.

TREE PROTECTION DETAIL

NOT TO SCALE

[illegible]

NOT APPROVED FOR CONSTRUCTION



STONEFIELD
engineering & design

Rutherford, NJ • New York, NY • Boston, MA
Princeton, NJ • Tampa, FL • Detroit, MI
www.stonefielddeng.com

584 Broadway, Suite 310, New York, NY 10012
Phone 718.606.8305

PRELIMINARY & FINAL MAJOR SITE PLAN

**GREEN ESSEX PARTNERS URBAN
RENEWAL, LLC**

PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT

TAX MAP SHEET 88 BLOCK 155, LOTS 40.02, 42.01, & 42.02
100 - 200 EXECUTIVE DRIVE
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

ZACHARY E. CHAPLIN, P.E.
NEW JERSEY LICENSE No. 53605
LICENSED PROFESSIONAL ENGINEER



STONEFIELD
engineering & design

SCALE: AS SHOWN	PROJECT ID: T-17554
-----------------	---------------------

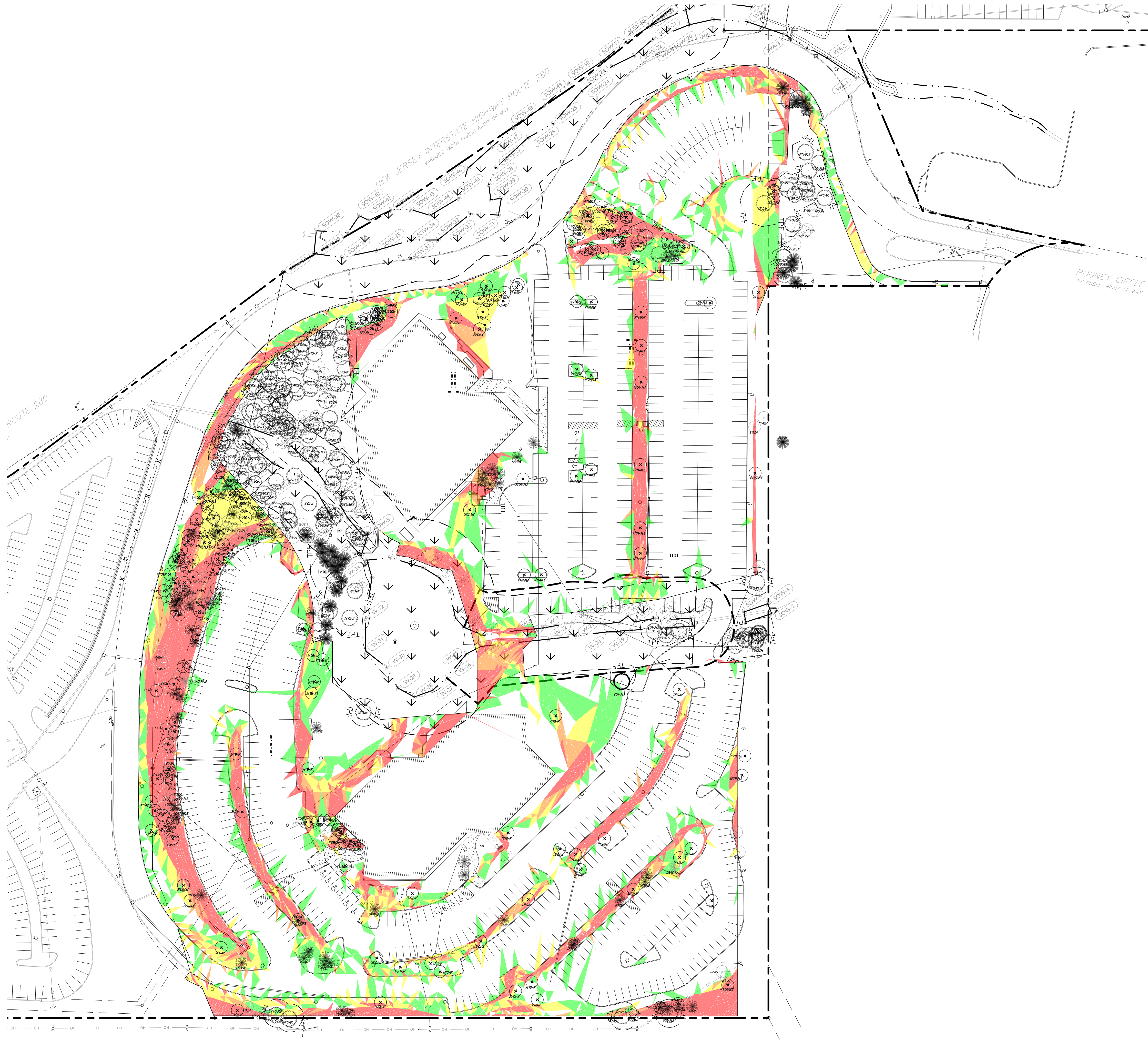
TITLE

CONSTRUCTION DETAILS

DRAWING:

C-28

T:\2017\T-17354-BIN REAL ESTATE GROUP - 100-200 EXECUTIVE DRIVE, WEST ORANGE, NJ\0400\PROJECTS\2017\30-50\DWG



SYMBOL

--- PROPERTY LINE

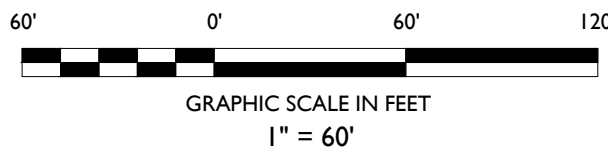
WETLANDS / WETLANDS TRANSITION AREA / STATE OPEN WATERWAY / RIPARIAN BUFFER

TREE TO BE REMOVED

TREE TO REMAIN AND BE PROTECTED

DESCRIPTION

STEEP SLOPE AREAS TO BE DISTURBED		
SLOPE RANGE	SYMBOL	AREA
10% - 15% SLOPES		57,140 SF (1.31 AC)
15% - 20% SLOPES		34,958 SF (0.80 AC)
20% - 25% SLOPES		18,483 SF (0.42 AC)
> 25% SLOPES		69,027 SF (1.58 AC)
TOTAL		179,608 SF (4.12 AC)



PRELIMINARY & FINAL MAJOR SITE PLAN

GREEN ESSEX PARTNERS URBAN RENEWAL, LLC

PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT

TAX MAP SHEET 88 BLOCK 155, LOTS 40.02, 42.01, & 42.02
100 - 200 EXECUTIVE DRIVE
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

ZACHARY E. CHAPLIN, P.E.
NEW JERSEY LICENSE No. 53605
LICENSED PROFESSIONAL ENGINEER

STONEFIELD
engineering & design

SCALE: 1" = 60' PROJECT ID: T-17354

TITLE: **EXISTING ENVIRONMENTAL CONSTRAINTS PLAN**

DRAWING: **C-29**

STONEFIELD
engineering & design

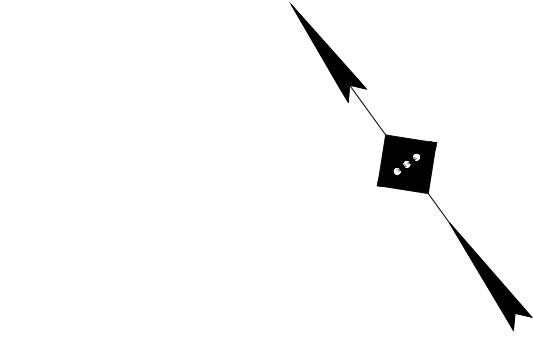
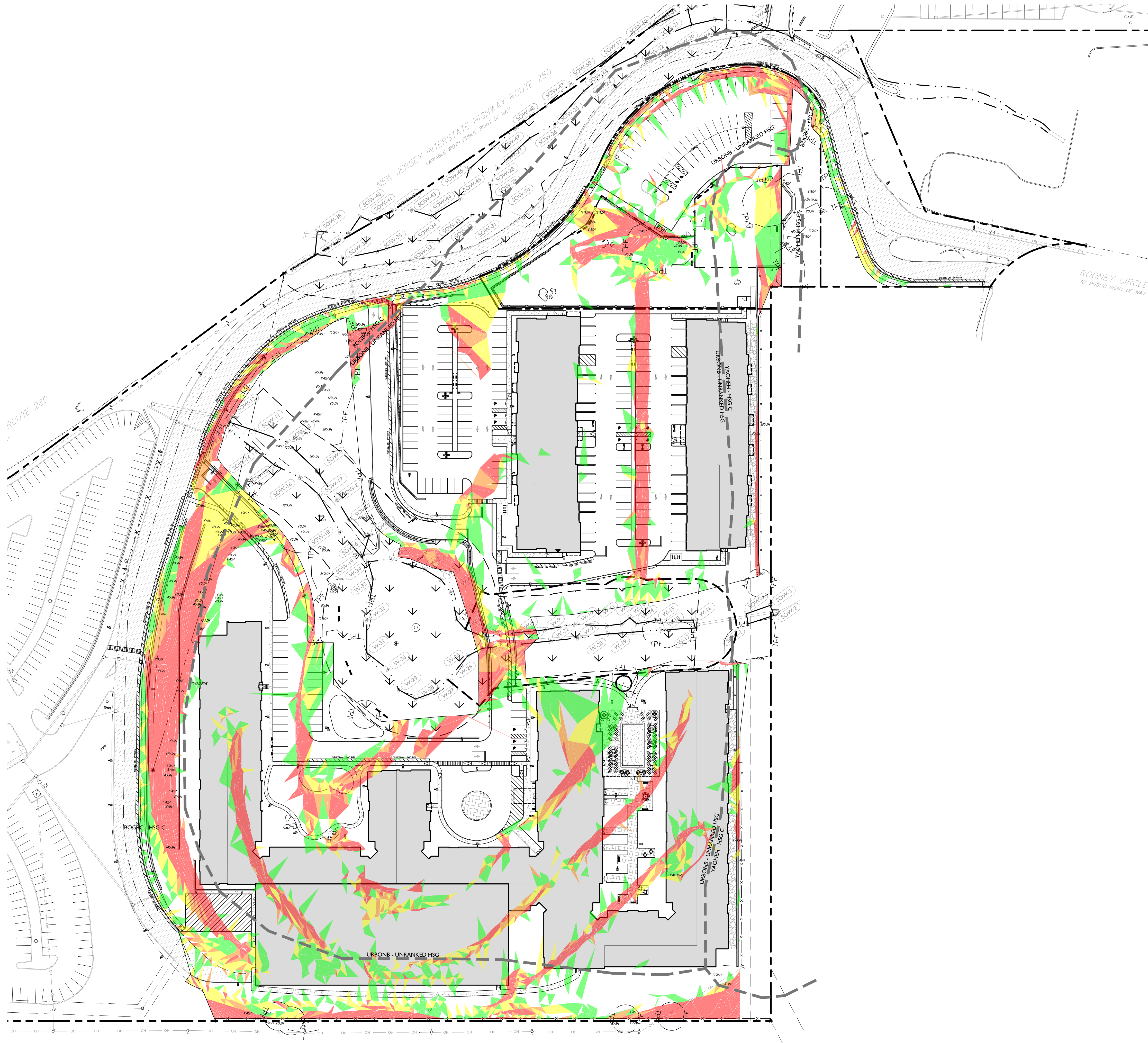
Rutherford, NJ • New York, NY • Boston, MA
Princeton, NJ • Tampa, FL • Detroit, MI
www.stonefieldeng.com

584 Broadway, Suite 310, New York, NY 10012
Phone 718.606.8305

ISSUED FOR REVIEW		FT	BY	DATE	ISSUE	DESCRIPTION
				01/19/2021		

NOT APPROVED FOR CONSTRUCTION

T:\2017\1754 BINE REAL ESTATE GROUP - 100-200 EXECUTIVE DRIVE, WEST ORANGE, NJ\0400\PROJECTS\1754-001\DWG

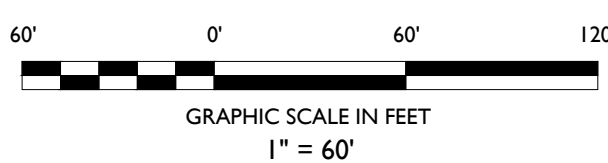


SYMBOL	DESCRIPTION
---	PROPERTY LINE
Wetlands symbols	WETLANDS / WETLANDS TRANSITION AREA / STATE OPEN WATERWAY / RIPARIAN BUFFER

STEEP SLOPE AREAS TO BE DISTURBED		
SLOPE RANGE	SYMBOL	AREA
10% - 15% SLOPES	Green	57,140 SF (1.31 AC)
15% - 20% SLOPES	Yellow	34,958 SF (0.80 AC)
20% - 25% SLOPES	Orange	18,483 SF (0.42 AC)
> 25% SLOPES	Red	69,027 SF (1.58 AC)
TOTAL		179,608 SF (4.12 AC)

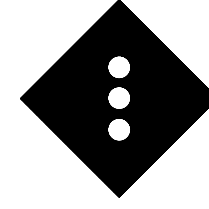
SOIL CHARACTERISTICS CHART	
TYPE OF SOIL	BOONTON LOAM (BoGbc)
PERCENT OF SITE COVERAGE	21.0%
HYDROLOGIC SOIL GROUP	C
DEPTH TO RESTRICTIVE LAYER	20 TO 36 INCHES
SOIL PERMEABILITY	0.06 TO 0.20 IN / HR
DEPTH TO WATER TABLE	> 80 INCHES
TYPE OF SOIL	URBAN LAND, BOONTON SUBSTRATUM (URBONB)
PERCENT OF SITE COVERAGE	70.5%
HYDROLOGIC SOIL GROUP	UNRANKED
TYPE OF SOIL	YALEVILLE - HOLYOKE COMPLEX (YaoEh)
PERCENT OF SITE COVERAGE	8.5%
HYDROLOGIC SOIL GROUP	C
SOIL PERMEABILITY	0.57 TO 1.98 IN / HR
DEPTH TO WATER TABLE	> 80 INCHES

\$25-28.7 STEEP SLOPE AND NATURAL FEATURES - INFORMATION REQUIRED	
REQUIREMENT	
IDENTIFICATION OF SOIL TYPES ON THE PROPERTY, WITH SPECIFIC REFERENCE TO HIGHLY ERODIBLE SOILS AS IDENTIFIED BY THE USDA SOIL CONSERVATION SERVICE OR OTHER RECOGNIZED AUTHORITY	SOIL TYPES HAVE BEEN IDENTIFIED PER USDA NATURAL RESOURCES CONSERVATION SERVICES (NRCS). NONE OF THE IDENTIFIED SOIL TYPES HAVE BEEN CLASSIFIED AS HIGHLY ERODIBLE.
EROSION POTENTIAL OF EXPOSED SOILS	NO EXPOSED SOILS ARE PROPOSED UNDER THESE PLANS. DURING CONSTRUCTION, EXPOSED SOILS WILL BE MAINTAINED IN ACCORDANCE WITH NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL AS SHOWN ON THE SOIL EROSION & SEDIMENT CONTROL PLAN (SHEETS C-15 & C-16). ADDITIONALLY, PLANS WILL BE SUBMITTED TO AND REVIEWED BY THE HEPSCD PRIOR TO CONSTRUCTION.
LENGTH, STEEPNESS AND SURFACE ROUGHNESS OF EXPOSED SLOPES	NO SLOPES ARE PROPOSED TO BE LEFT EXPOSED. STEEP SLOPES WILL BE PLANTED AND FORTIFIED TO PREVENT EROSION. WHERE SLOPES WILL BE EXPOSED DURING CONSTRUCTION, THE NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL WILL BE IMPLEMENTED TO PREVENT EROSION.
RESISTANCE OF SOIL TO COMPACTION AND STABILITY OF SOIL AGGREGATES	PER THE SOIL EROSION & SEDIMENT CONTROL PLAN (SHEETS C-15 & C-16), SOIL COMPACTION WILL BE MITIGATED AND STABILIZED IN ACCORDANCE WITH NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
HIGH WATER TABLE, WATER INFILTRATION CAPACITY AND CAPACITY OF SOIL PROFILE	PER THE SUBMITTED GEOTECHNICAL REPORT, NO HIGH WATER TABLE IS PRESENT ON THE SITE. ADDITIONALLY, NO INFILTRATION MEASURES ARE PROPOSED.



ISSUED FOR REVIEW		DESCRIPTION	
DATE	BY	DATE	BY
01/19/2021	I		

NOT APPROVED FOR CONSTRUCTION

**STONEFIELD**
engineering & design

Rutherford, NJ • New York, NY • Boston, MA
Princeton, NJ • Tampa, FL • Detroit, MI
www.stonefieldeng.com

584 Broadway, Suite 310, New York, NY 10012
Phone 718.606.8305

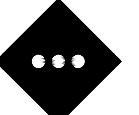
PRELIMINARY & FINAL MAJOR SITE PLAN

GREEN ESSEX PARTNERS URBAN RENEWAL, LLC

PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT

TAX MAP SHEET 88 BLOCK 155, LOTS 40.02, 42.01, & 42.02
100 - 200 EXECUTIVE DRIVE
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

ZACHARY E. CHAPLIN, P.E.
NEW JERSEY LICENSE No. 53605
LICENSED PROFESSIONAL ENGINEER

**STONEFIELD**
engineering & design

SCALE: 1" = 60' PROJECT ID: T-17354

TITLE: **PROPOSED ENVIRONMENTAL CONSTRAINTS PLAN**

DRAWING:

C-30