

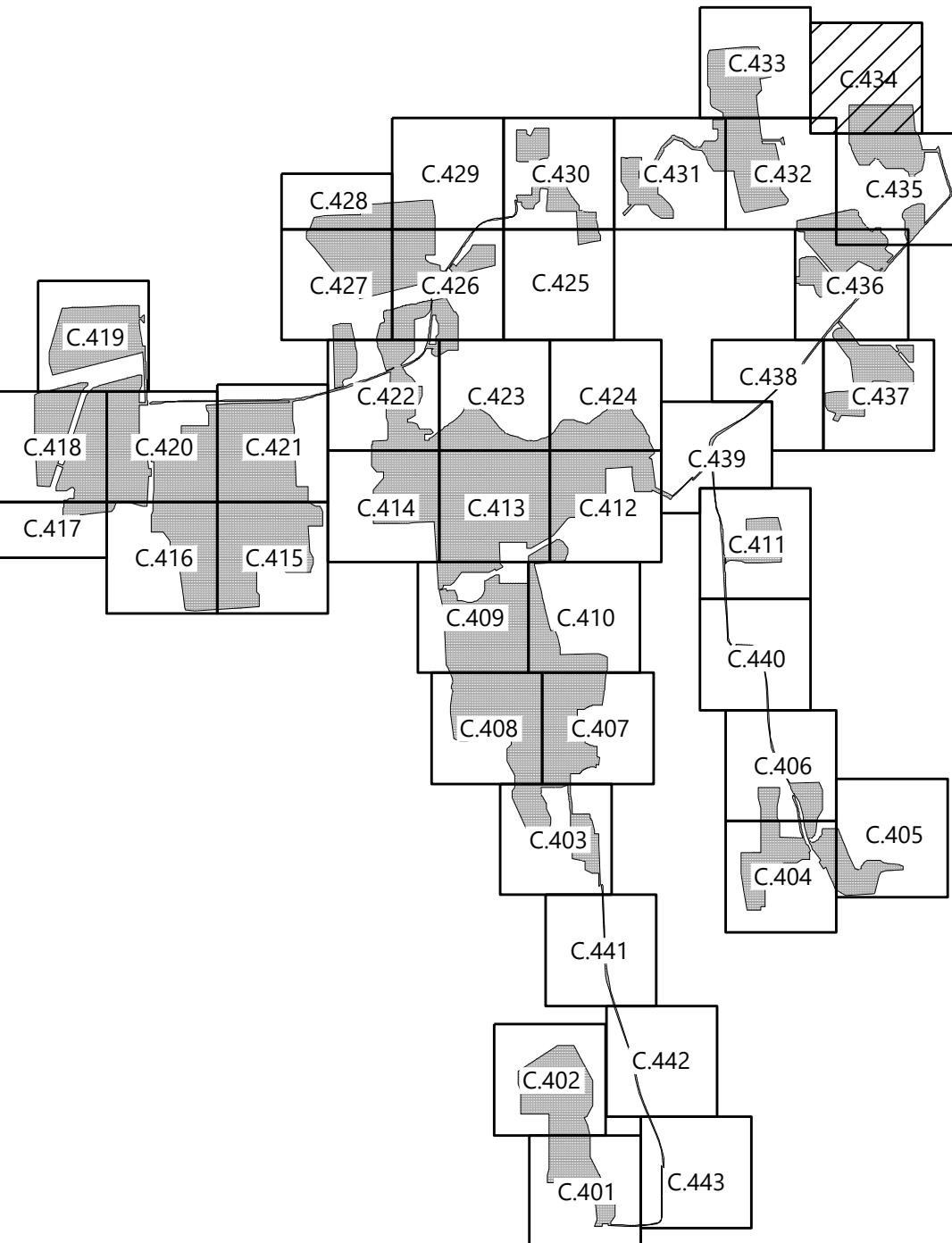


LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. TREE LINE
- EX. NYSDEC MAPPED WETLAND
- EX. USACE MAPPED WETLAND
- EX. DELINEATED WETLAND
- EX. STREAM
- EX. EDGE OF WATER
- EX. DRAINAGE DITCH
- EX. OVERHEAD POWER
- EX. GAS LINE
- EX. POWER POLE
- EX. FENCE
- EX. PAVED ROAD
- EX. CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. STRUCTURE
- PROPOSED SOLAR ARRAY
- PROPOSED SETBACKS
- PROPOSED INVERTER
- PROPOSED BATTERY STORAGE
- PROPOSED ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED UNDERGROUND COLLECTION
- PROPOSED HDD LINE
- PROPOSED HDD BORE PIT
- PROPOSED LAYDOWN YARD
- LIMIT OF DISTURBANCE
- PROPOSED PARKING AREA
- PROPOSED SILT FENCE
- PROPOSED BIO ROLL
- PROPOSED HIGH WATER CROSSING
- PROPOSED CULVERT
- PROPOSED RIP-RAP
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- TYPE I CLEARING
- TYPE B DISPOSAL
- TYPE II CLEARING
- TYPE A DISPOSAL

- BMP NOTES:
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 - INSTALL EROSION CONTROL BLANKETS ON DITCHES 5% TO 8% GRADE. INSTALL ROCK LINING ON DITCHES GREATER THAN 8% GRADE.
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KEYMAP:



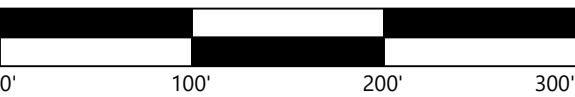
PREPARED FOR:



700 Universe Boulevard
Juno Beach, FL 33408

REVISIONS:

#	DATE	COMMENT
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**Garnet Energy
Center**

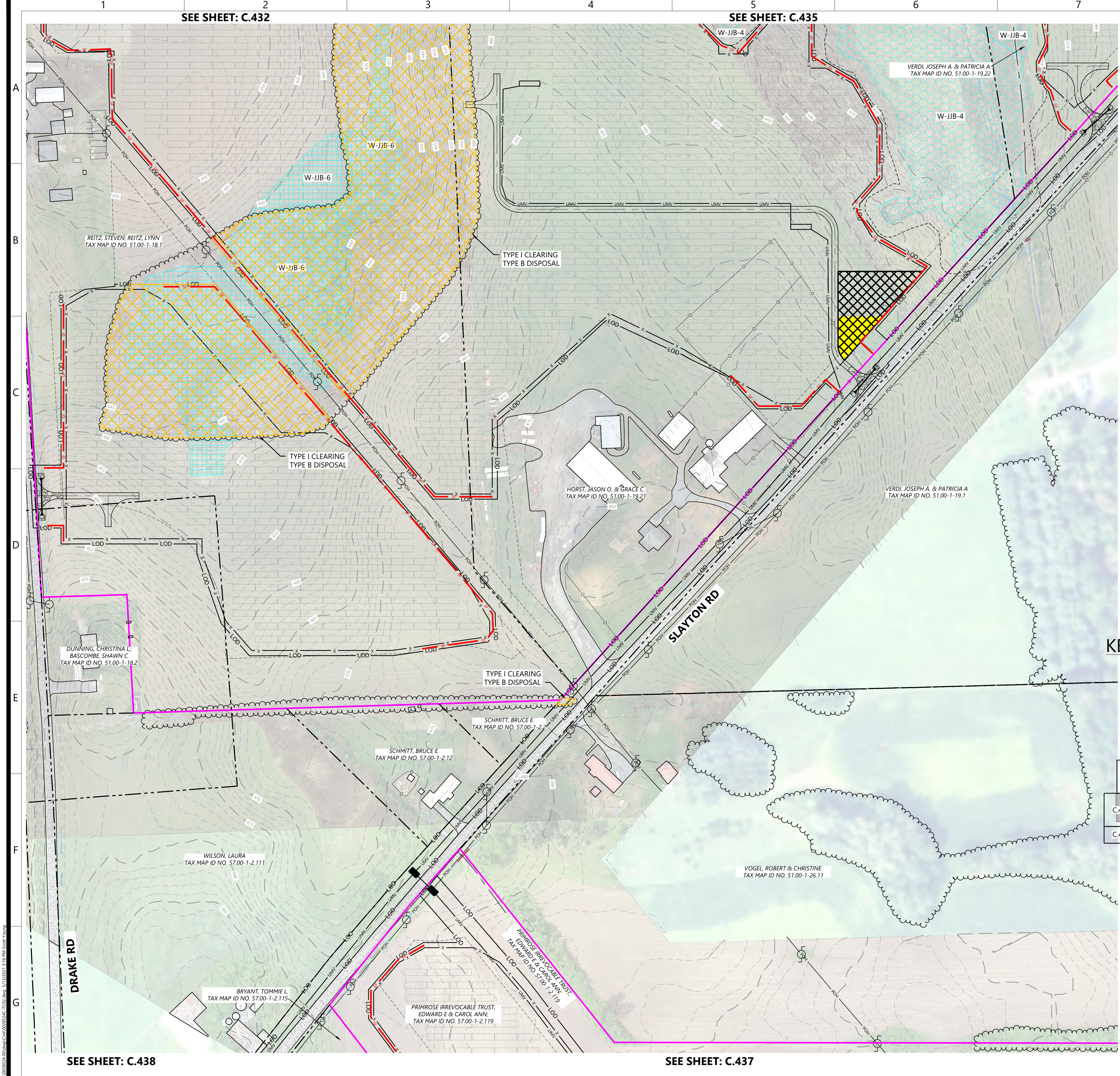
Cayuga County, New York

Tree Clearing Plan

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 5/13/2021

SHEET: C.434

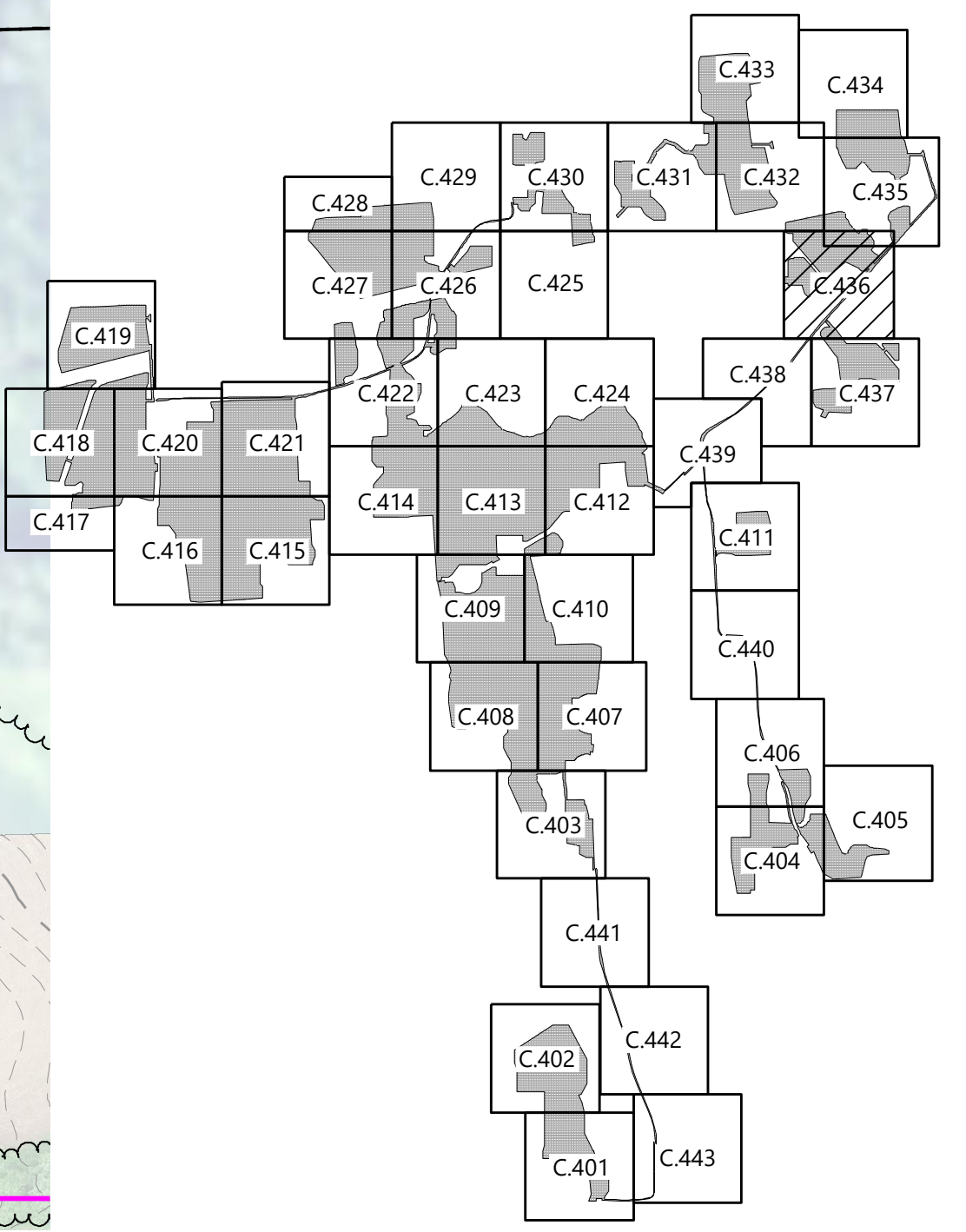


SEE SHEET: C.335

- LEGEND:**
- PROPERTY LINE
 - PARCEL LINE
 - EX. TREE LINE
 - EX. NYSDEC MAPPED WETLAND
 - EX. USACE MAPPED WETLAND
 - EX. DELINEATED WETLAND
 - EX. STREAM
 - EX. EDGE OF WATER
 - EX. DRAINAGE DITCH
 - EX. OVERHEAD POWER
 - EX. GAS LINE
 - EX. POWER POLE
 - EX. FENCE
 - EX. PAVED ROAD
 - EX. CULVERT
 - EX. INDEX CONTOUR
 - EX. INTERVAL CONTOUR
 - EX. STRUCTURE
 - PROPOSED SOLAR ARRAY
 - PROPOSED SETBACKS
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 - LIMIT OF DISTURBANCE
 - PROPOSED PARKING AREA
 - PROPOSED SILT FENCE
 - PROPOSED BIO ROLL
 - PROPOSED HIGH WATER CROSSING
 - PROPOSED CULVERT
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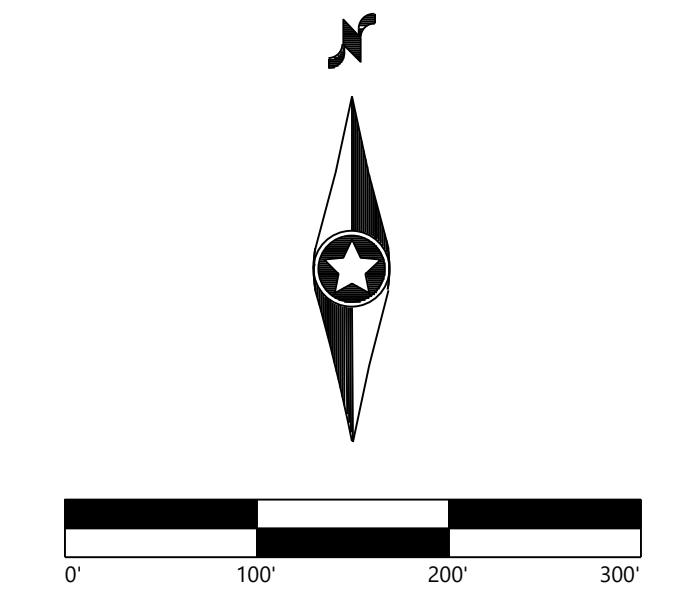
KEYMAP:



Westwood
Surveying & Engineering
Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 www.pc.com
Westwood Surveying and Engineering, P.C.

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#	DATE	COMMENT
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Garnet Energy Center

Cayuga County, New York

Tree Clearing Plan

PRELIMINARY
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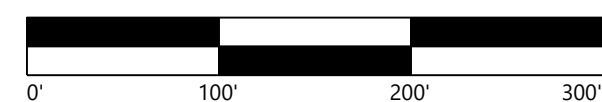
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SHEET: C.436

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#	DATE	COMMENT
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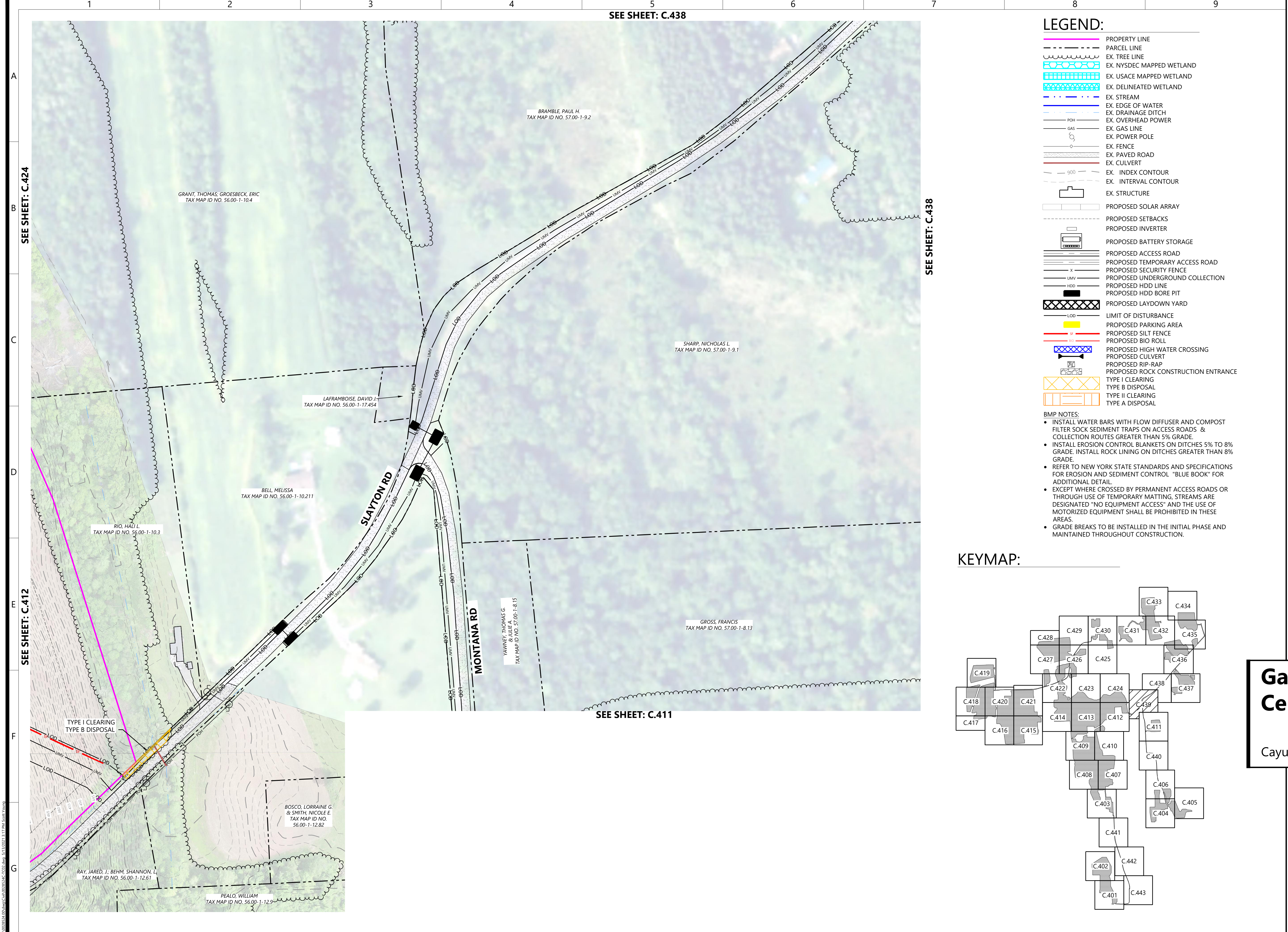
Cayuga County, New York

PRELIMINARY
NOT FOR CONSTRUCTION

SHEET: C.437



	PROPERTY LINE
	PARCEL LINE
	EX. TREE LINE
	EX. NYSDEC MAPPED WETLAND
	EX. USACE MAPPED WETLAND
	EX. DELINEATED WETLAND
	EX. STREAM
	EX. EDGE OF WATER
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	TYPE A DISPOSAL



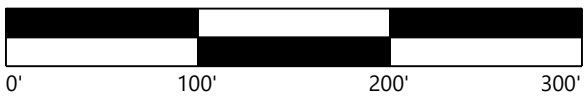
PREPARED FOR:



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REVISIONS:

#	DATE	COMMENT
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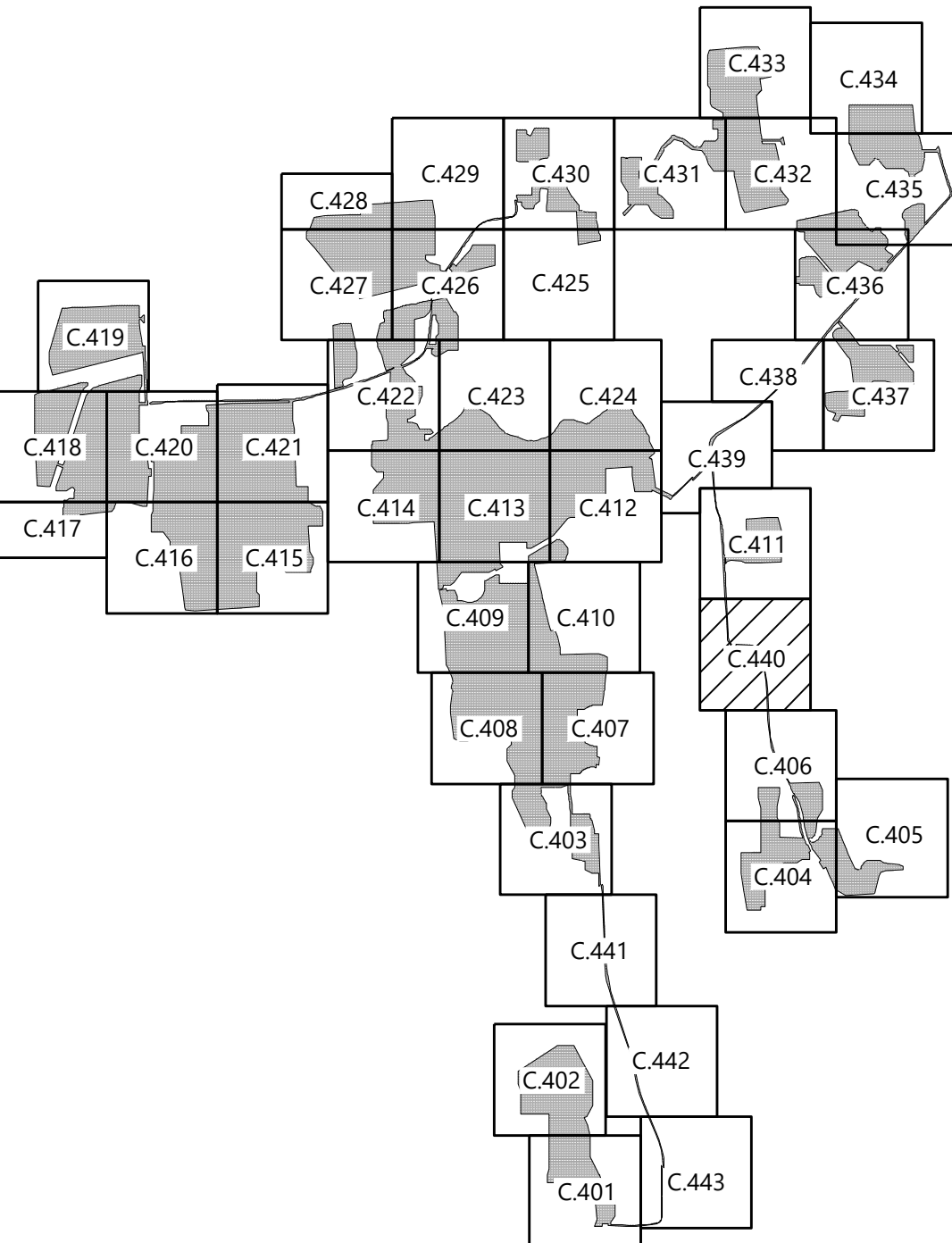


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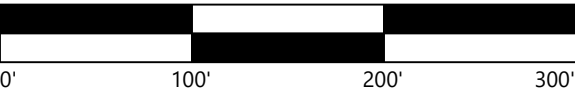
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REVISIONS:

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**Garnet Energy
Center**

Cayuga County, New York

Tree Clearing Plan

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 5/13/2021

SHEET: C.440

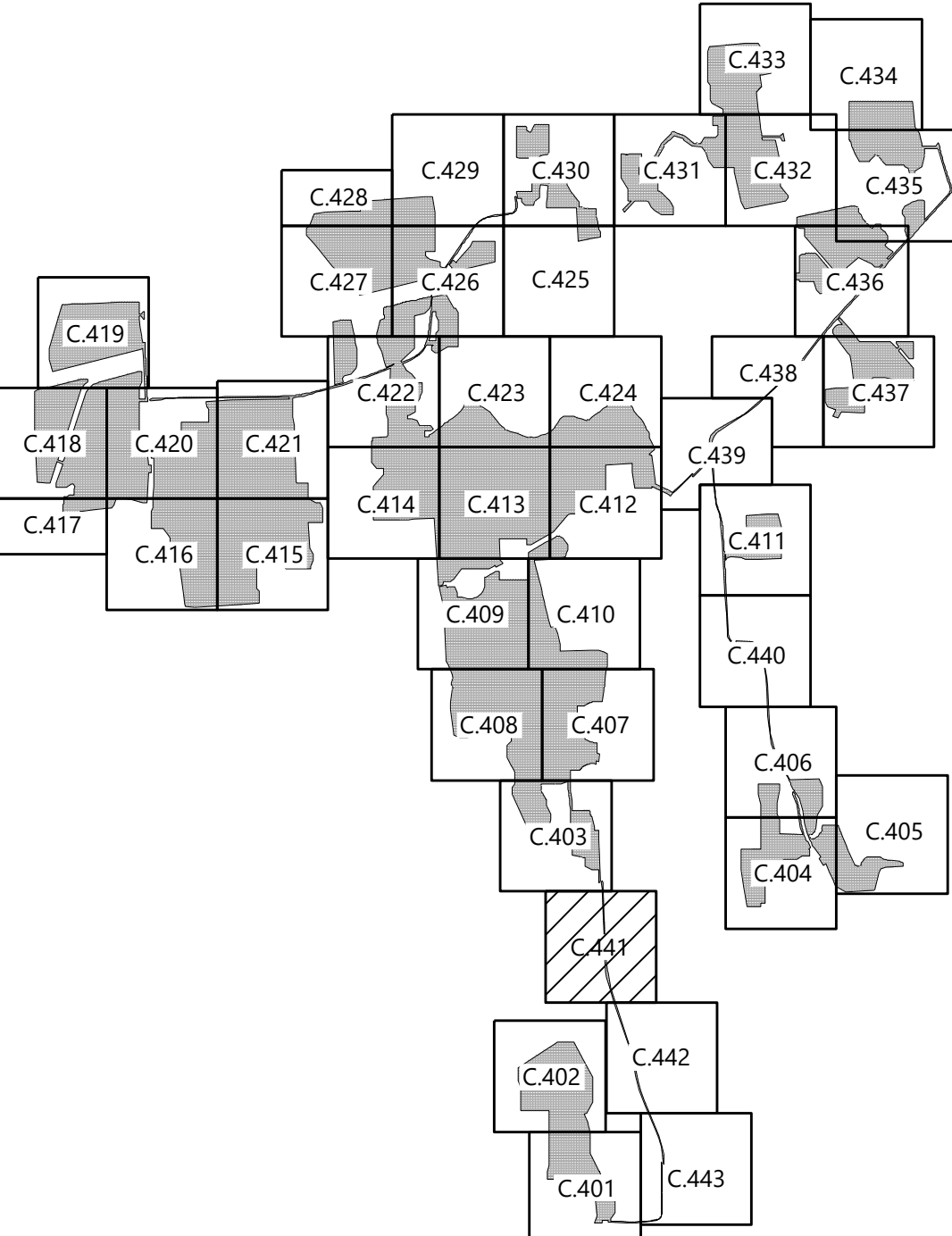


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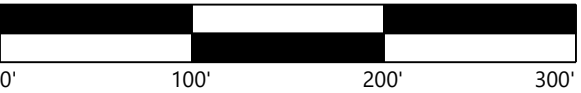
PREPARED FOR:



700 Universe Boulevard
Juno Beach, FL 33408

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#	DATE	COMMENT
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Garnet Energy
Center

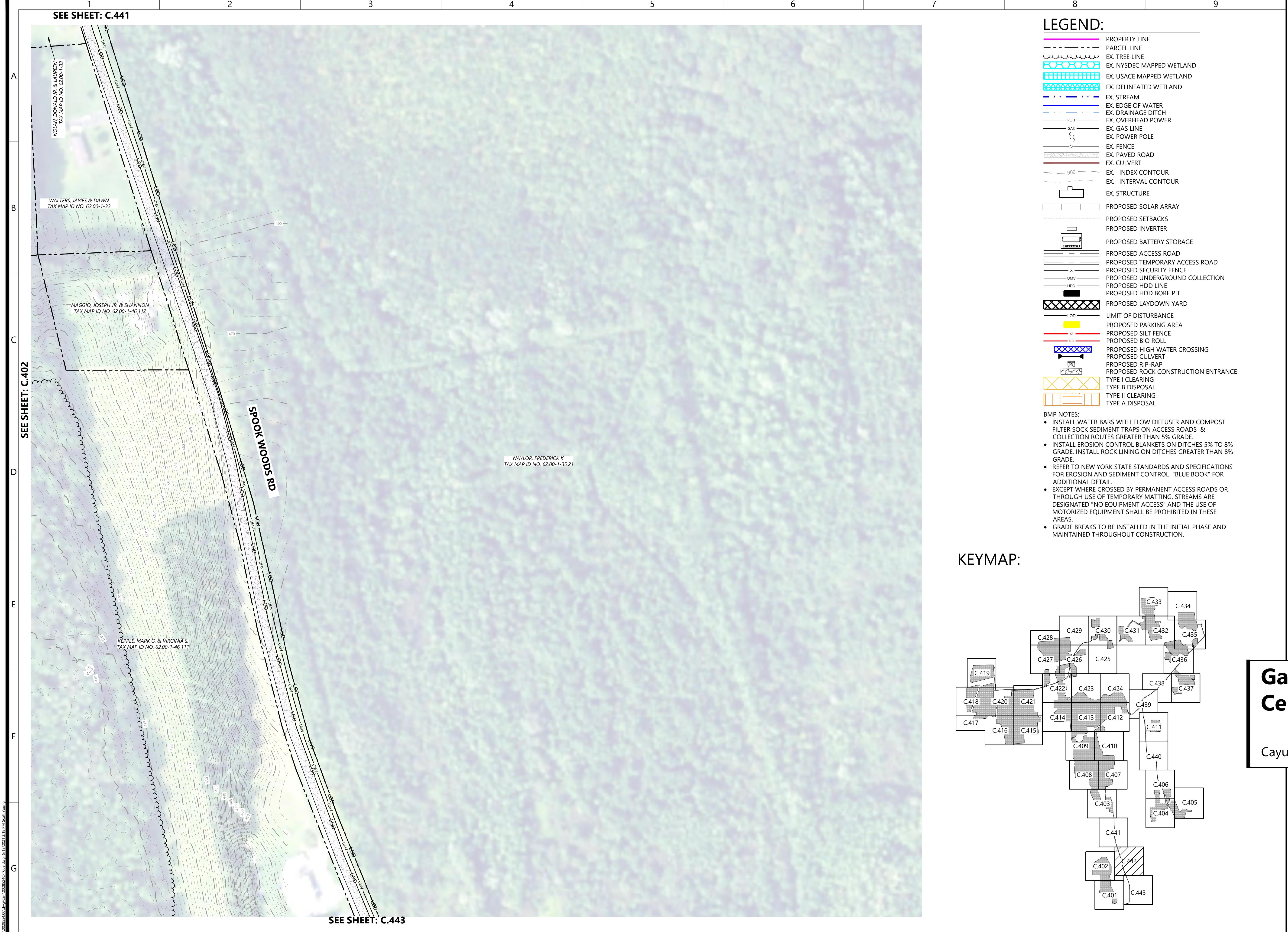
Cayuga County, New York

Tree Clearing Plan

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 5/13/2021

SHEET: C.441



Westwood
Surveying & Engineering

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
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Juno Beach, FL 33408

REVISIONS:

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0' 100' 200' 300'

Garnet Energy Center

Cayuga County, New York

Tree Clearing Plan

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 5/13/2021

SHEET: C.442

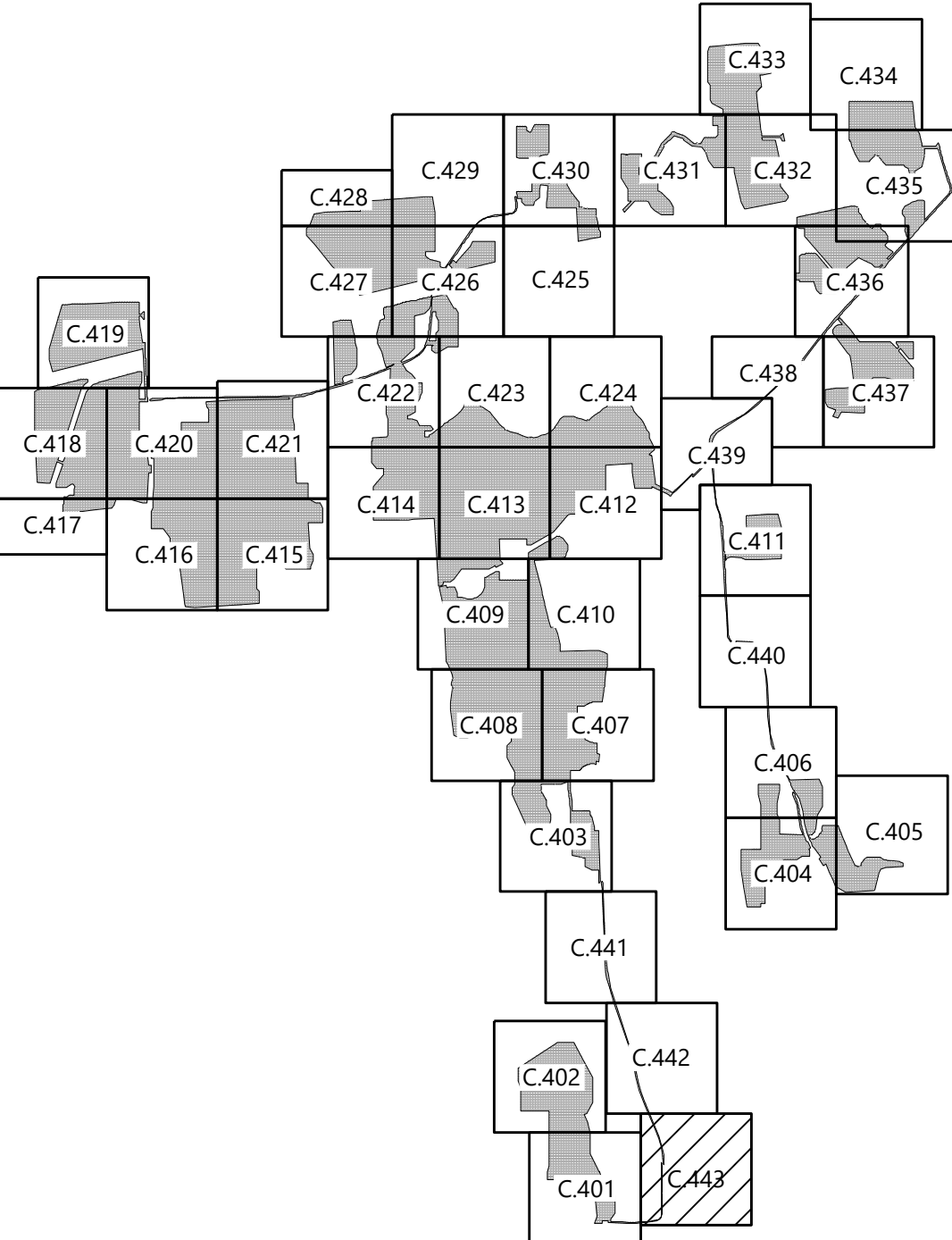


LEGEND:

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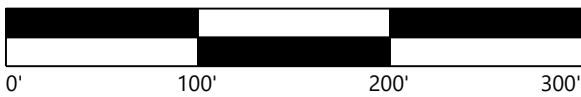
PREPARED FOR:



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Juno Beach, FL 33408

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Garnet Energy
Center

Cayuga County, New York

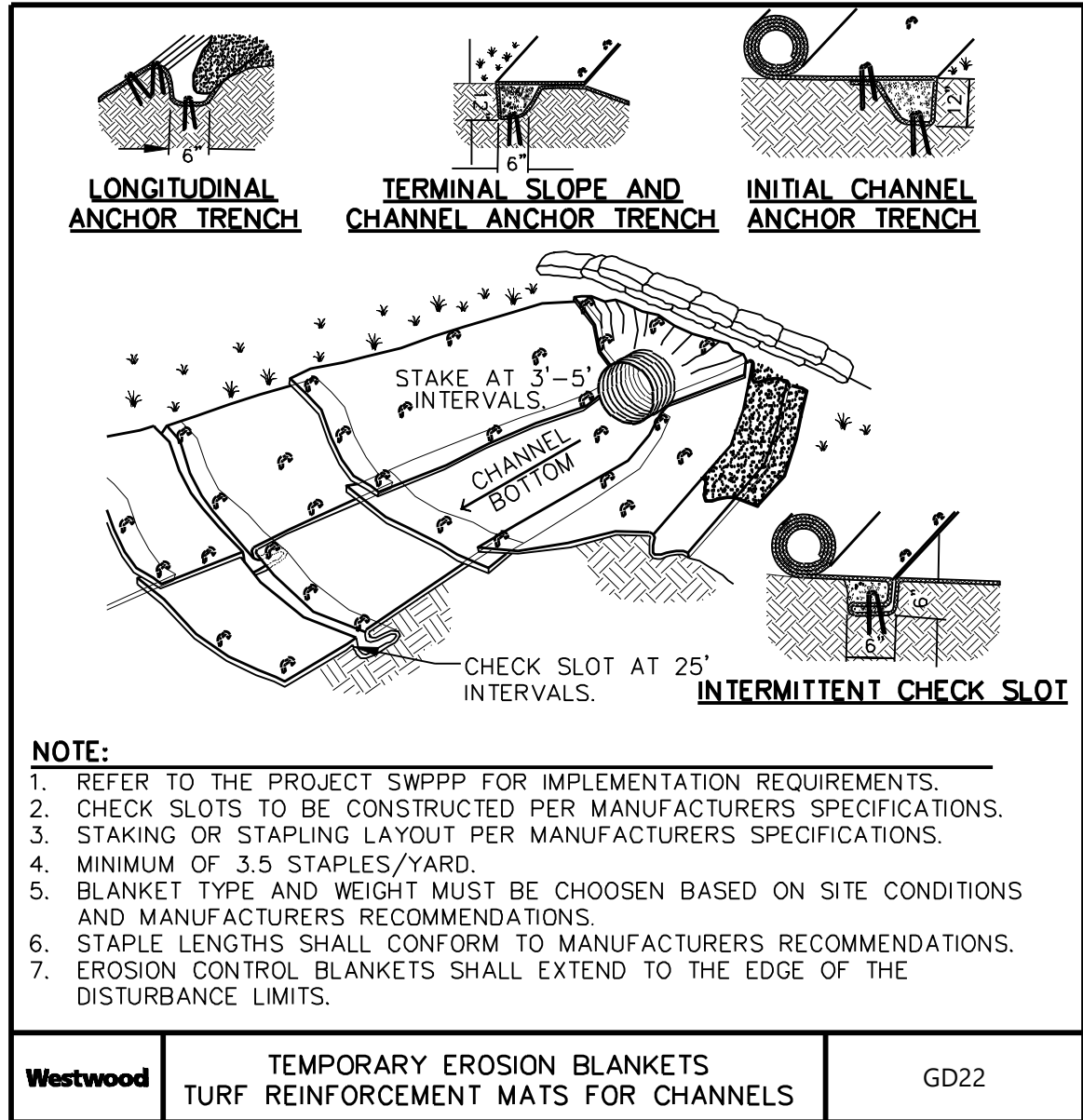
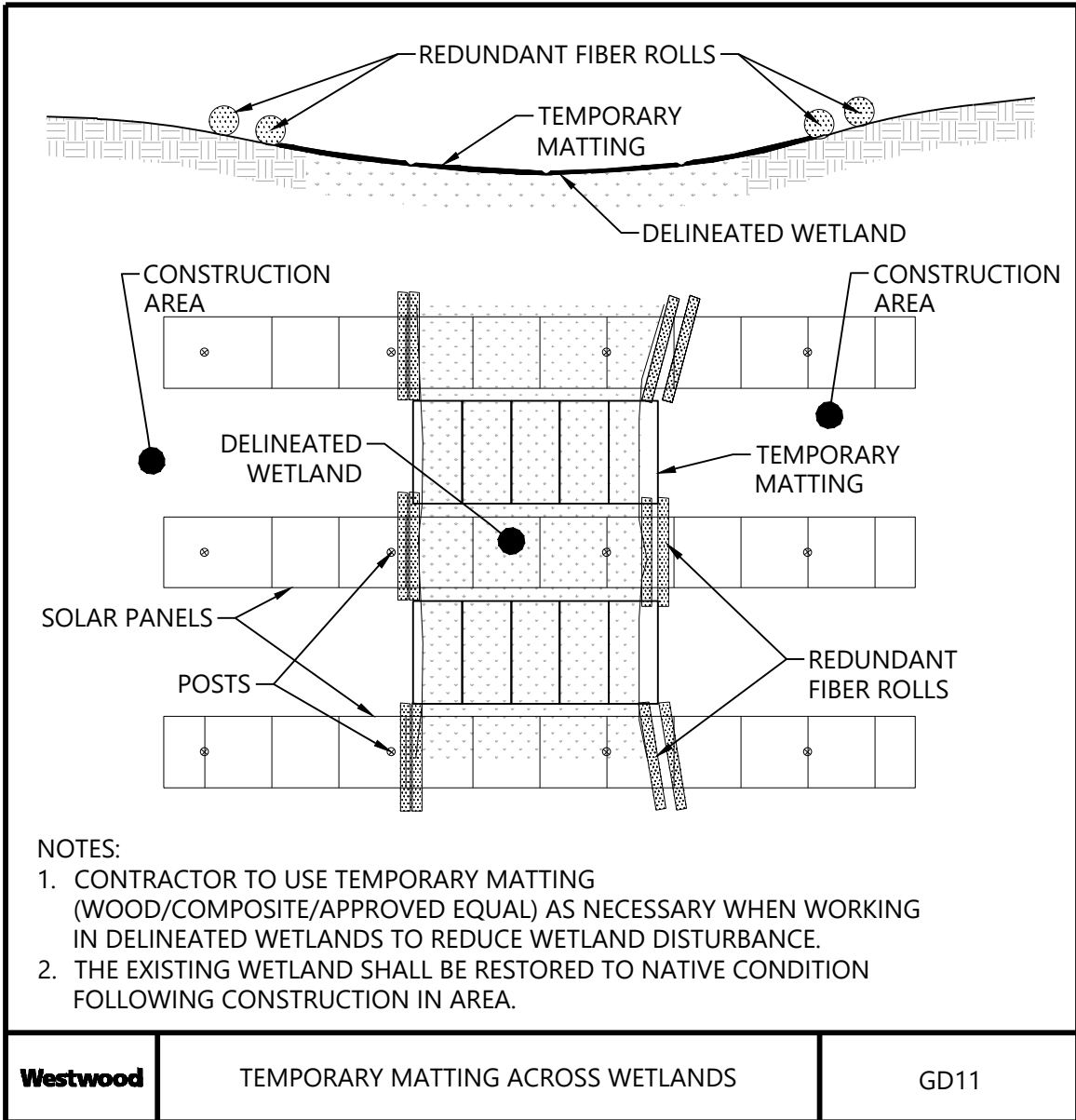
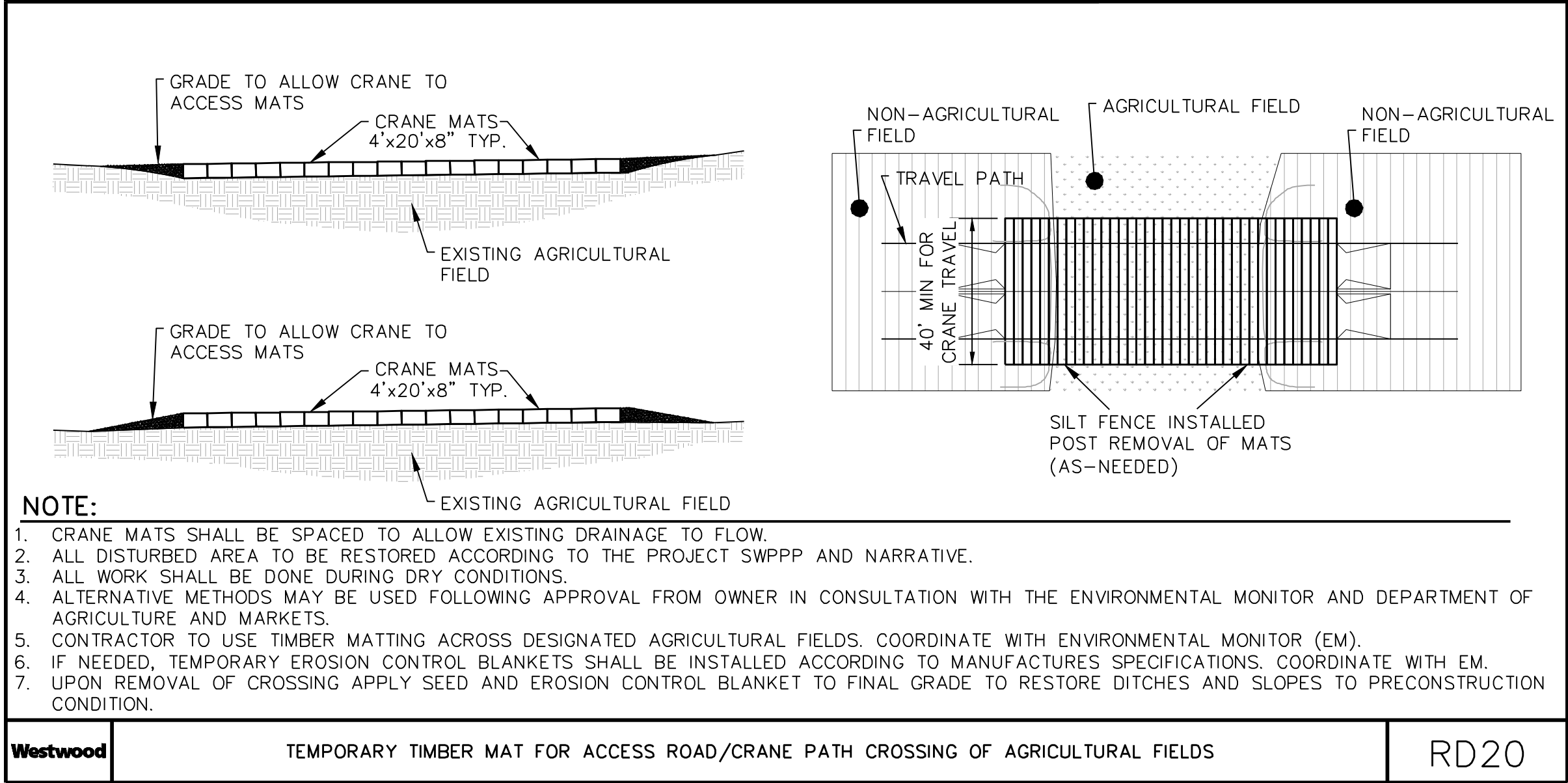
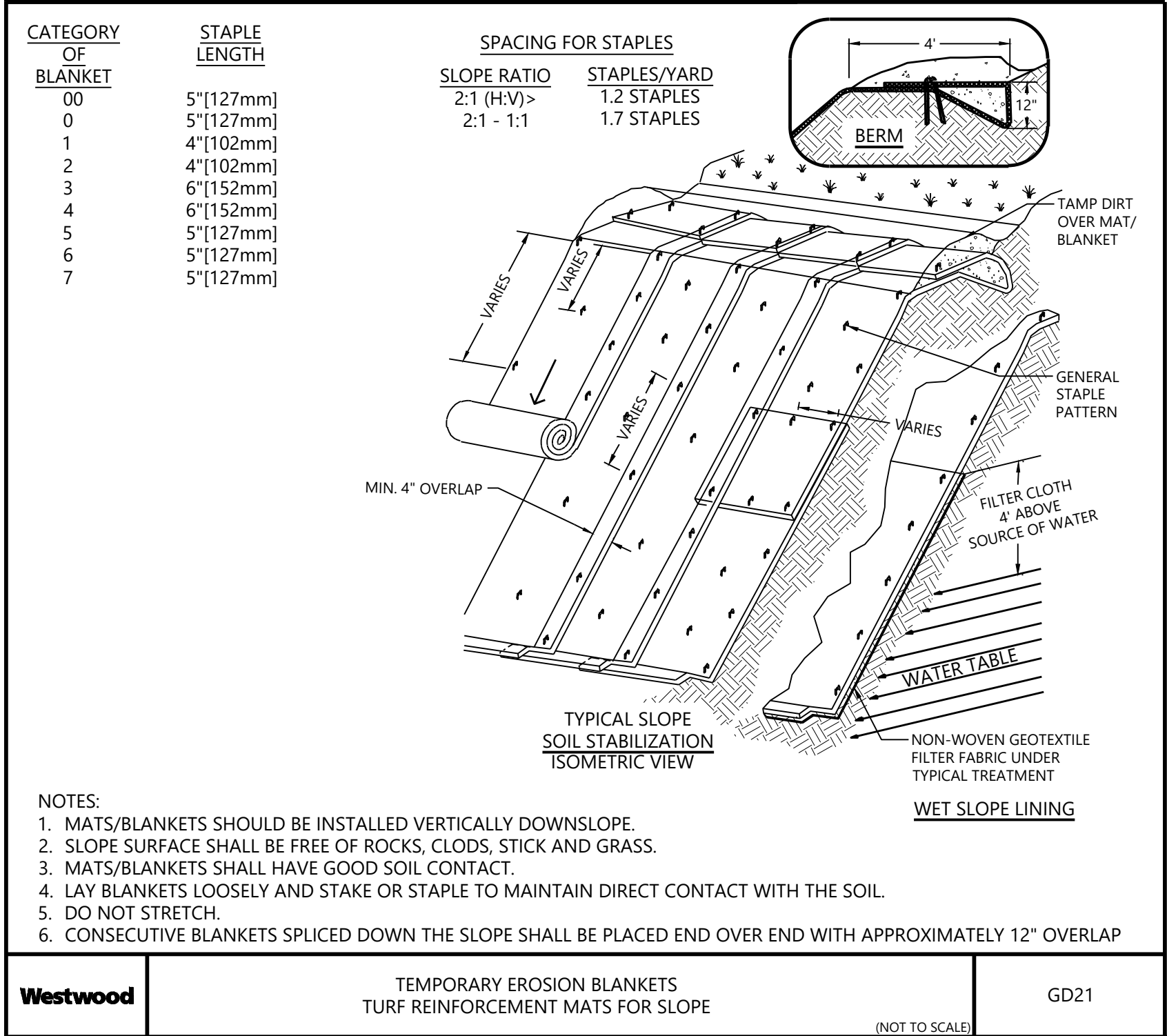
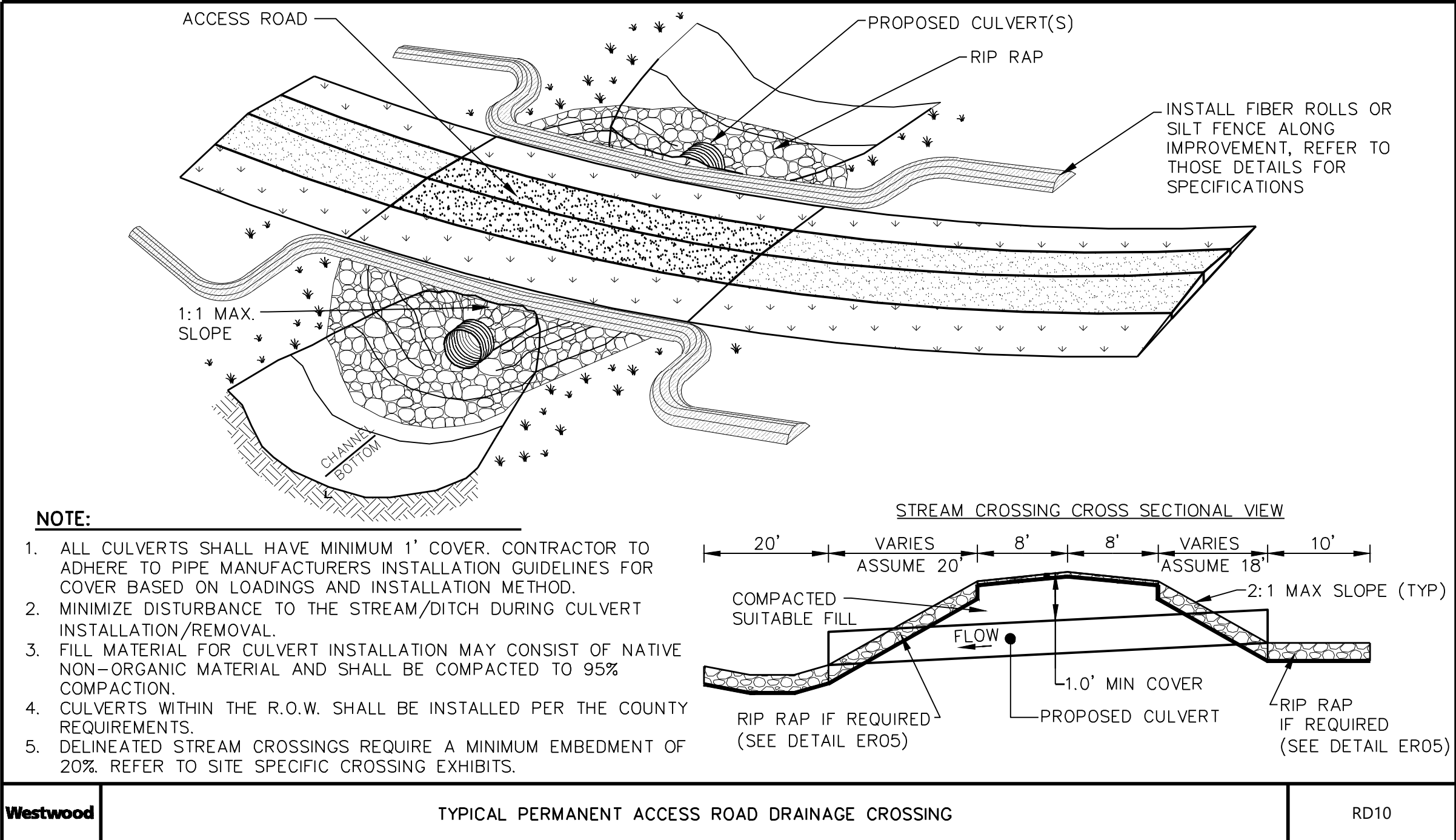
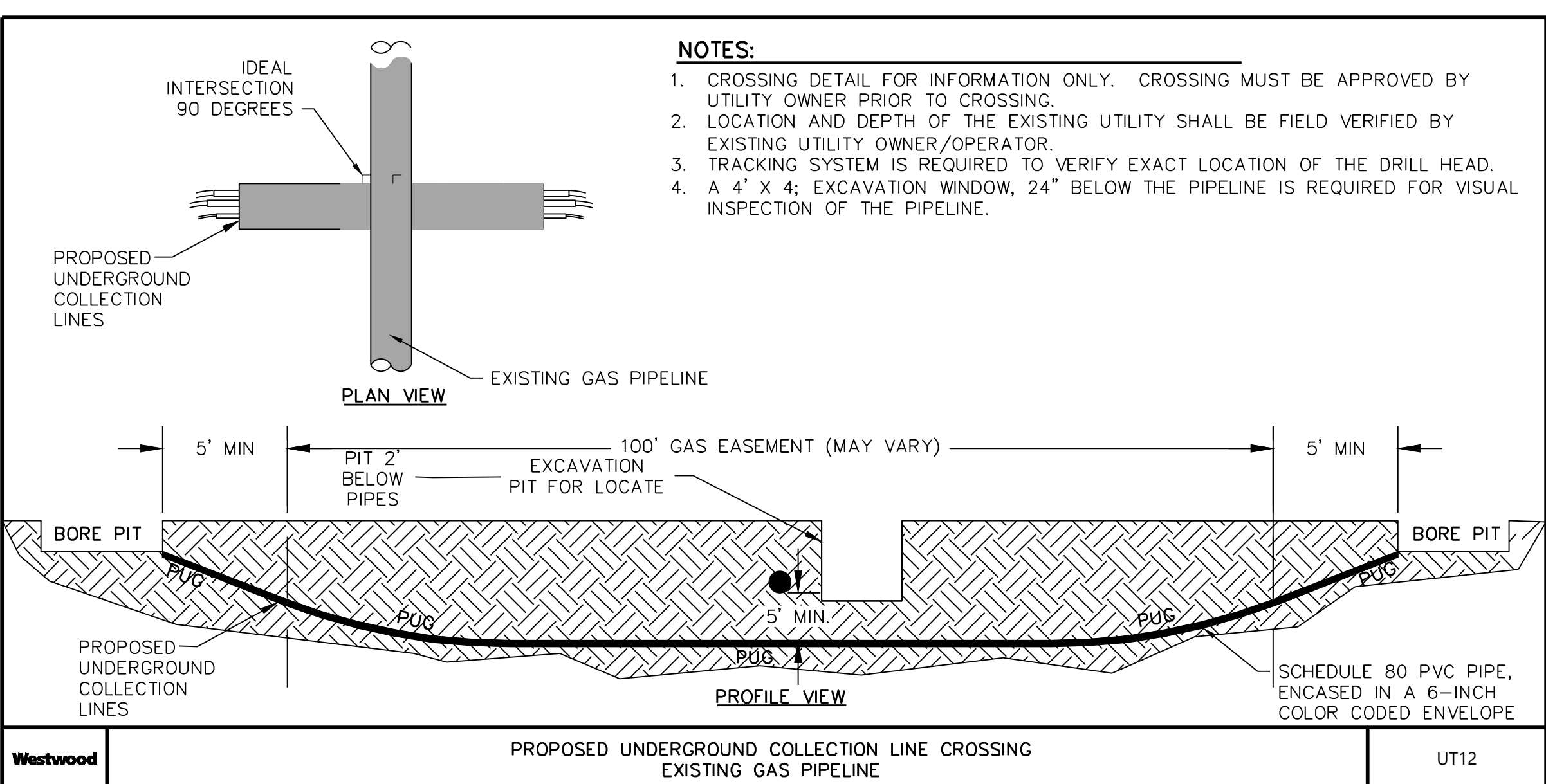
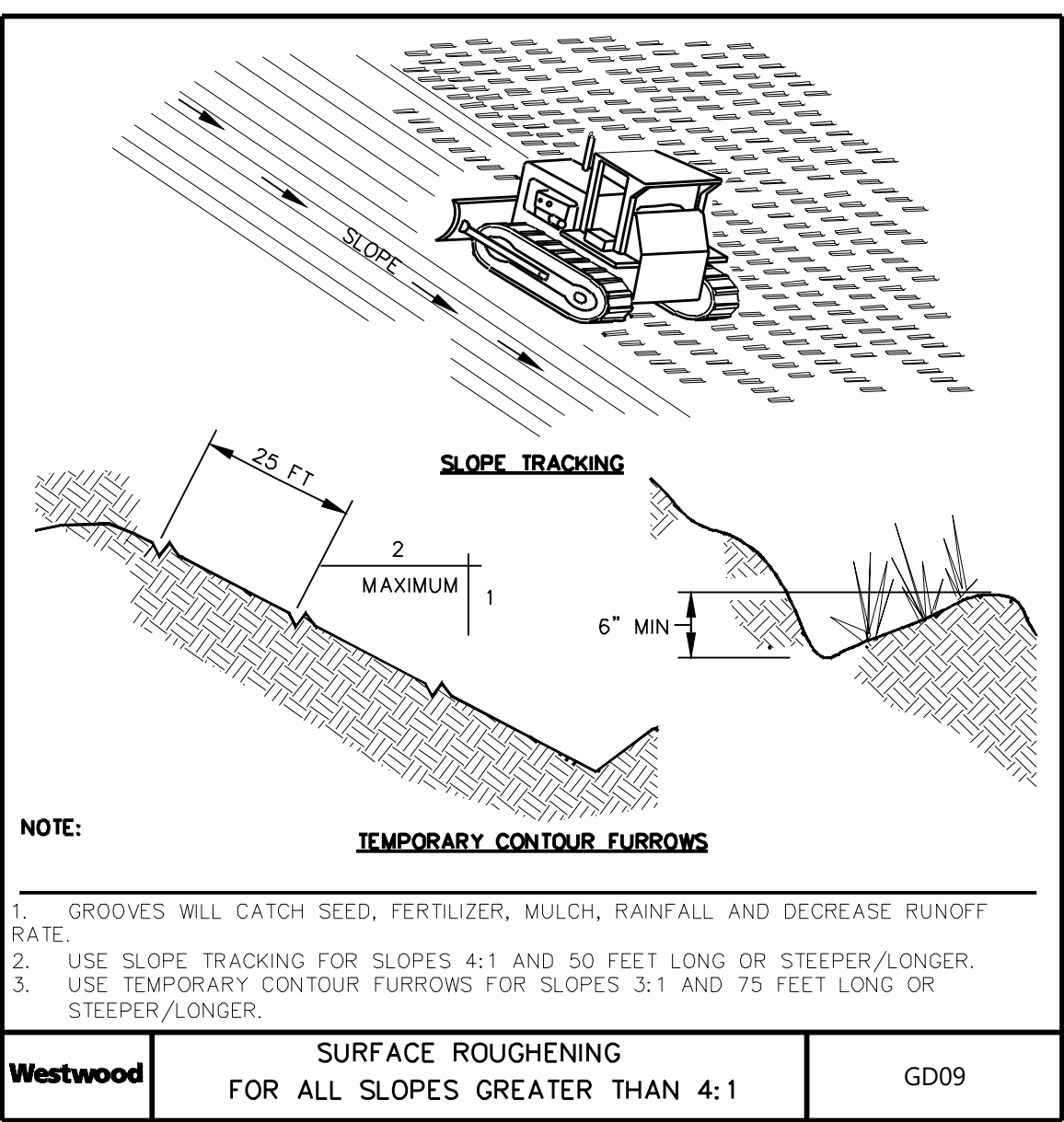
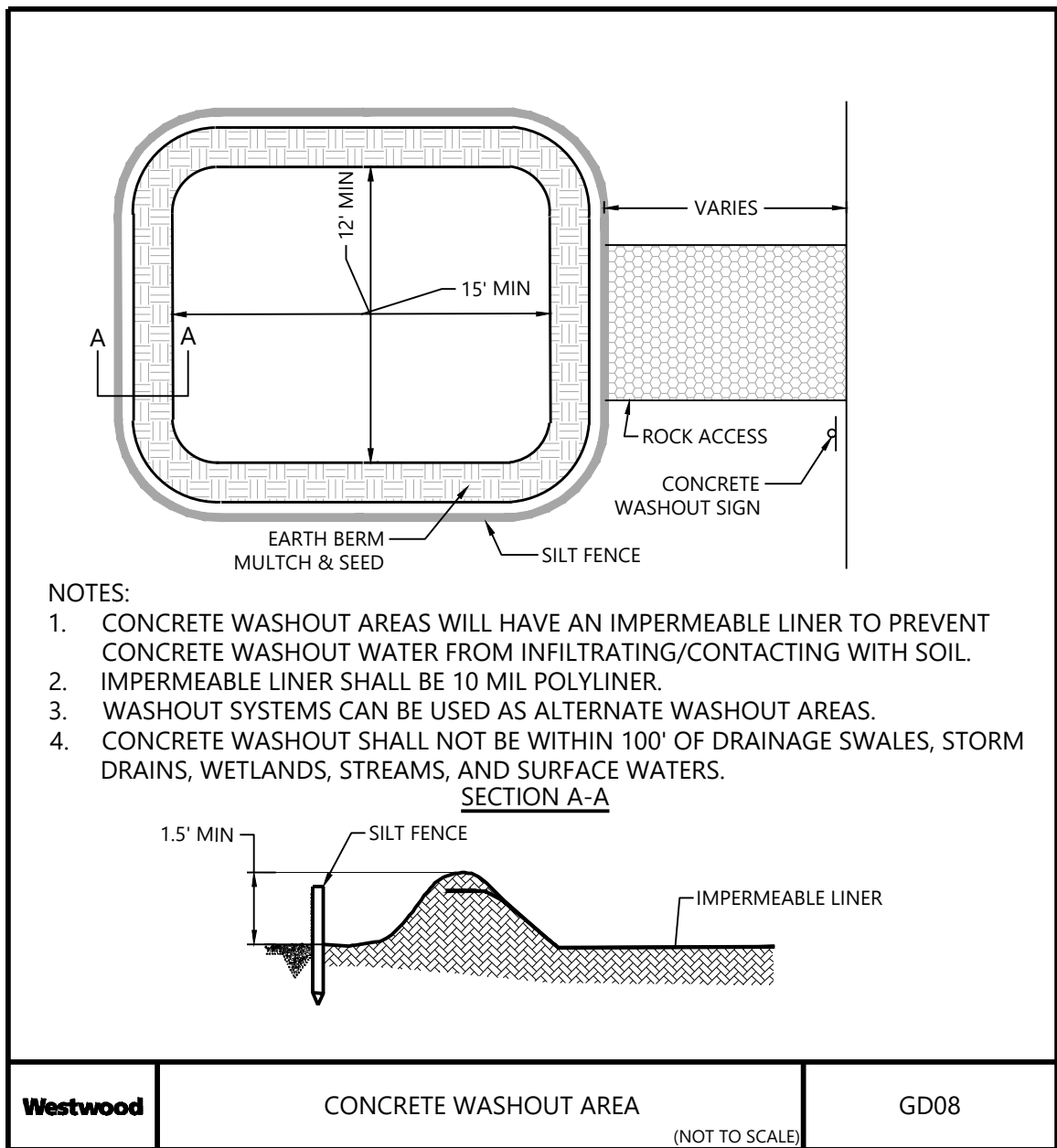
Tree Clearing Plan

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 5/13/2021

SHEET: C.443

\\003624\000\dwg\Garnet\Garnet.dwg 5/13/2021 3:18 PM Scott Korman



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REVISIONS:

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Garnet Energy Center

Cayuga County, New York

Construction Details

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 5/13/2021

SHEET: C.601

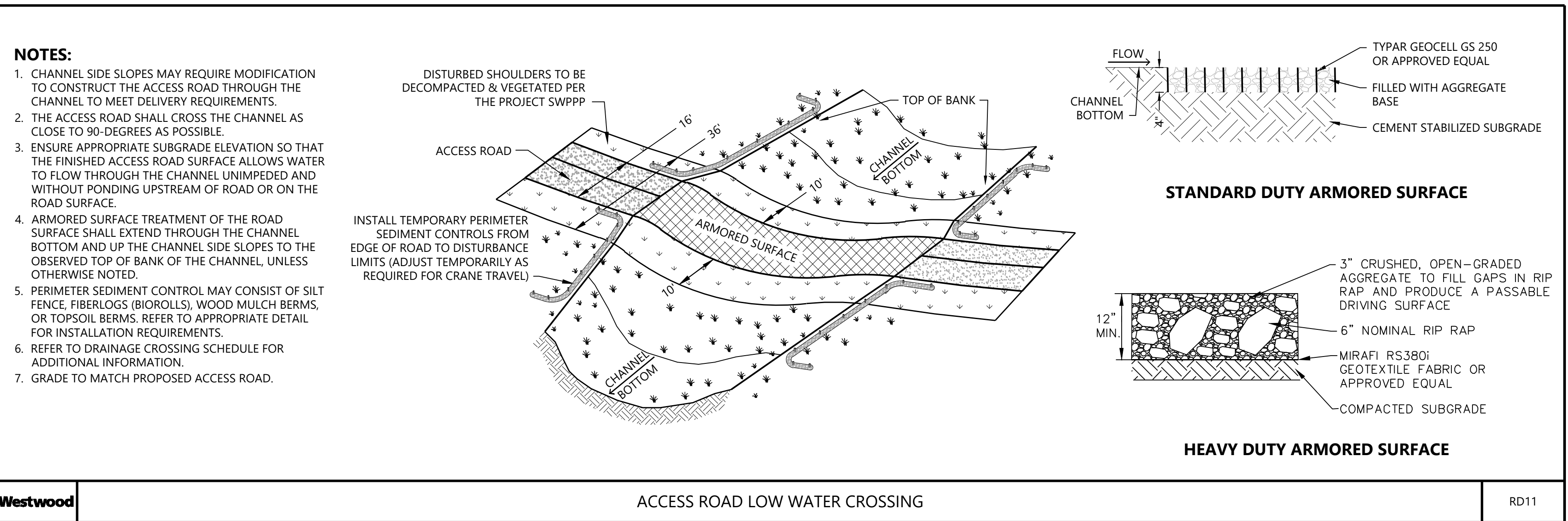
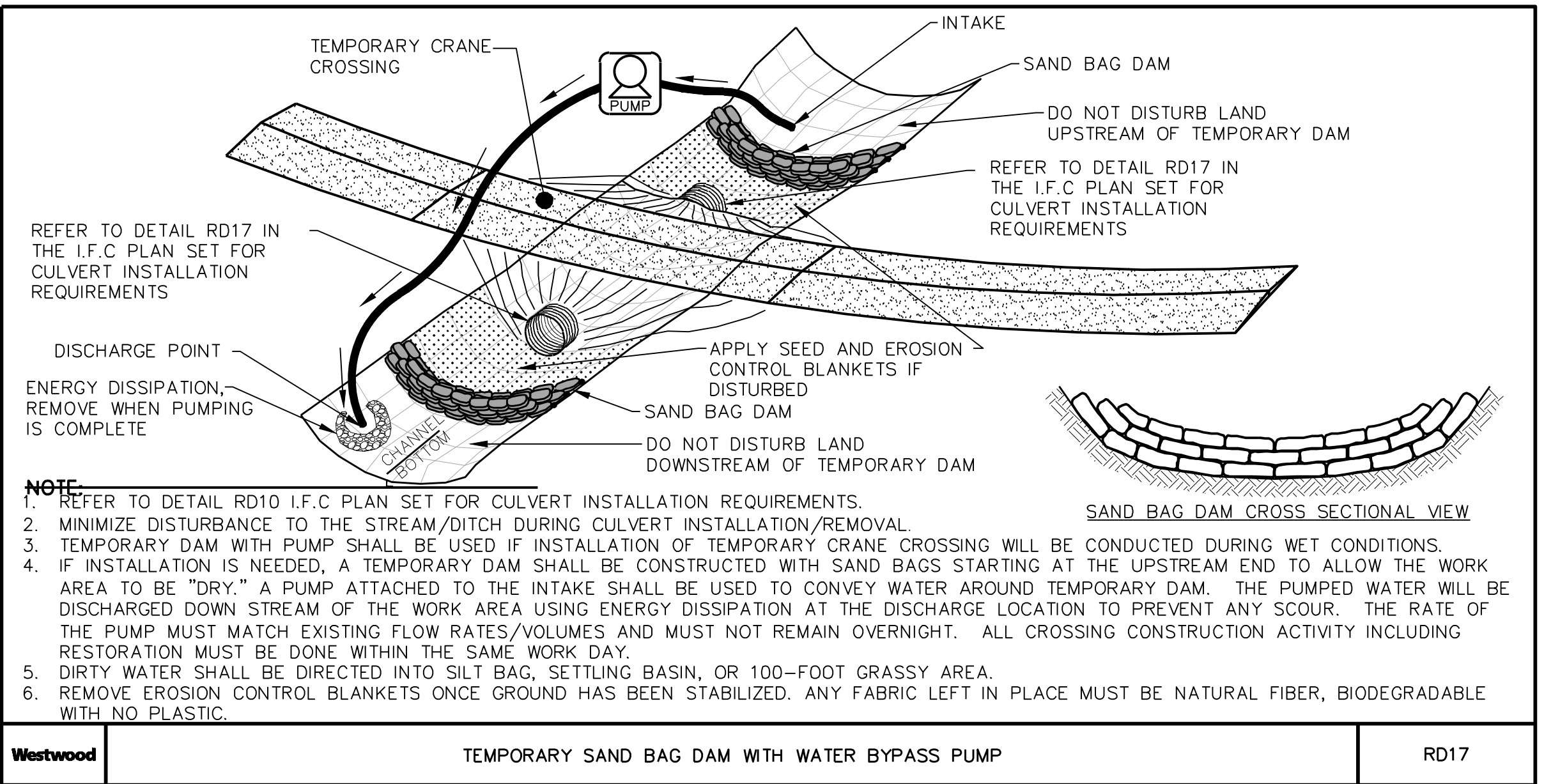
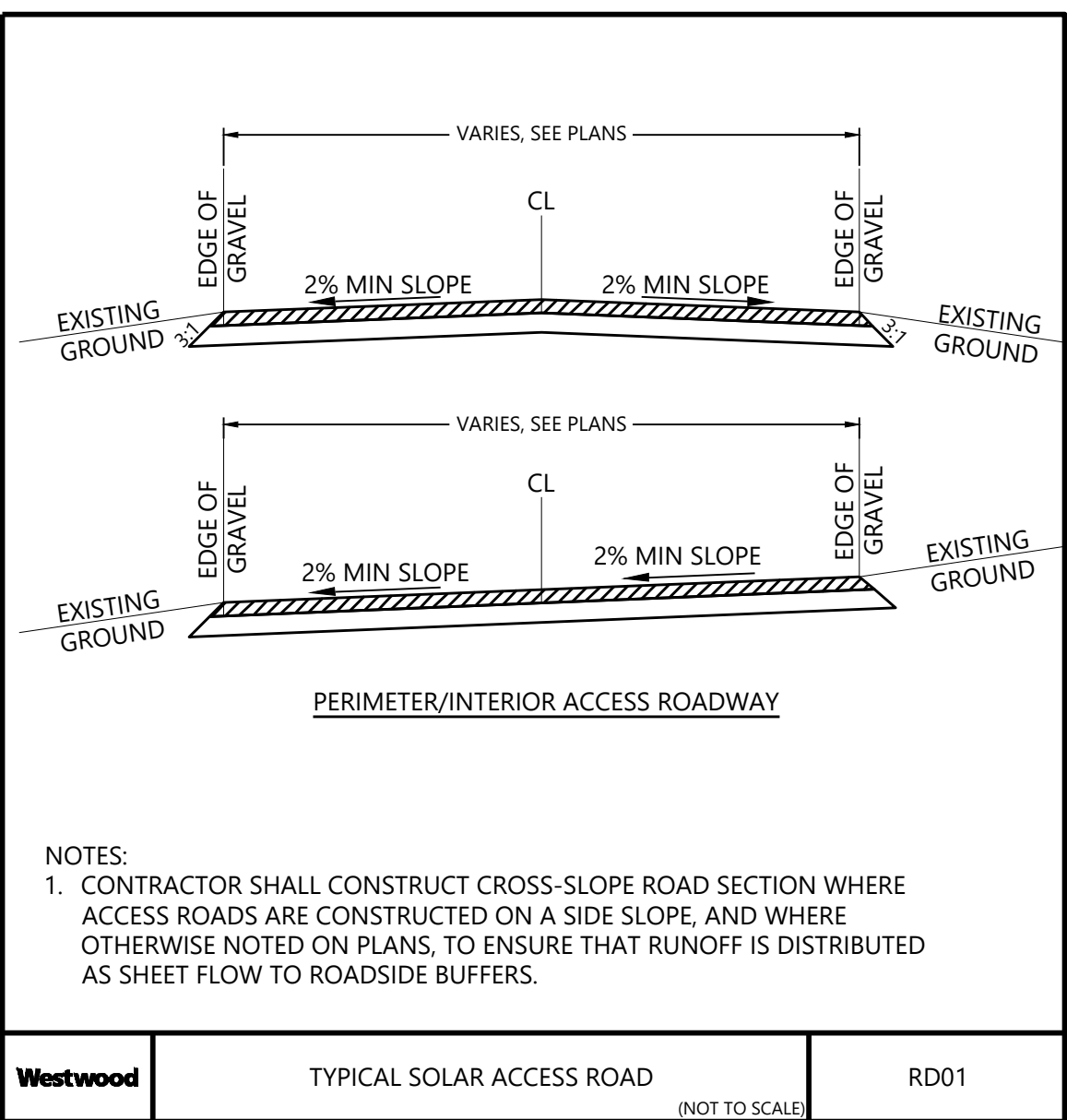
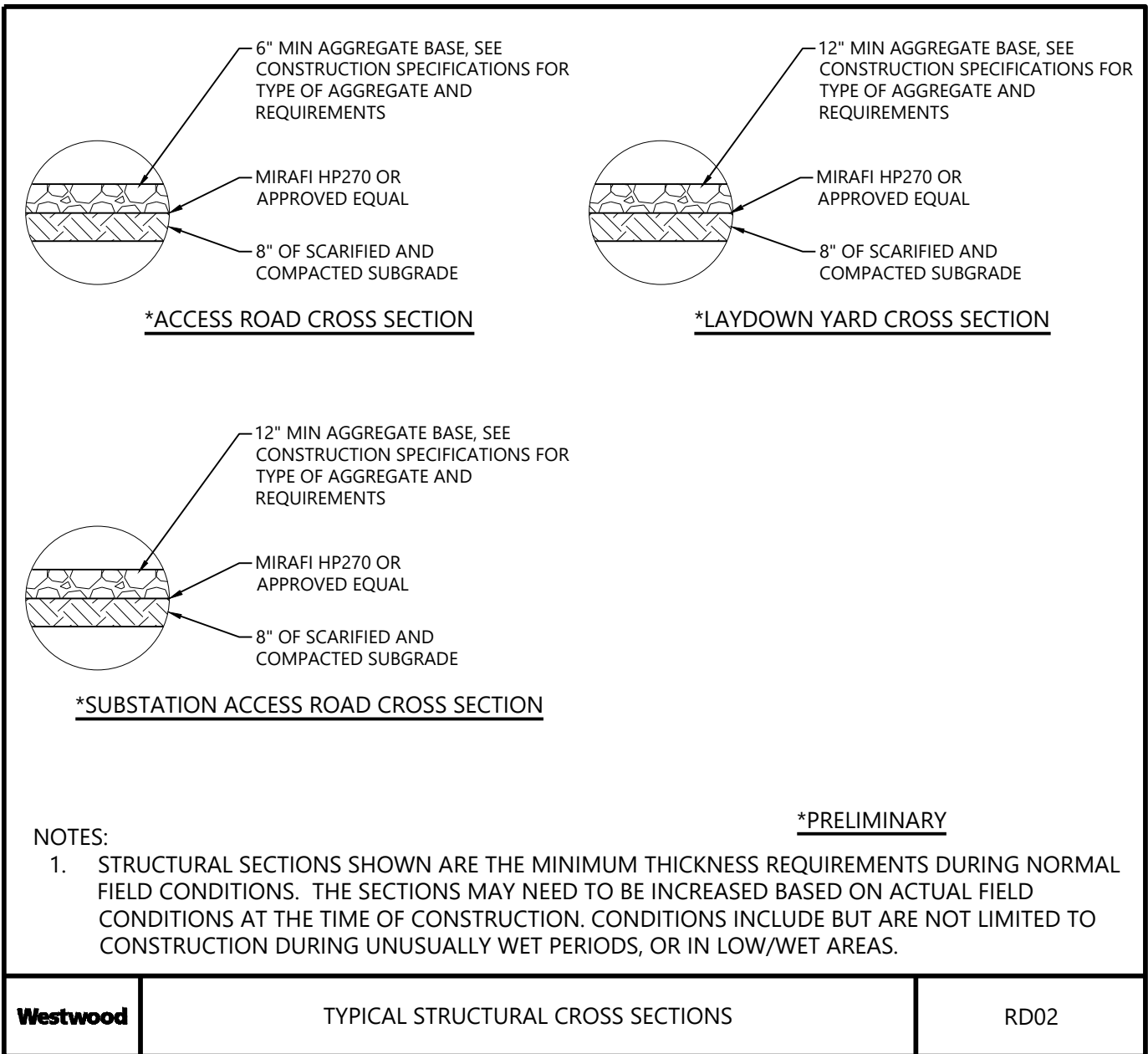
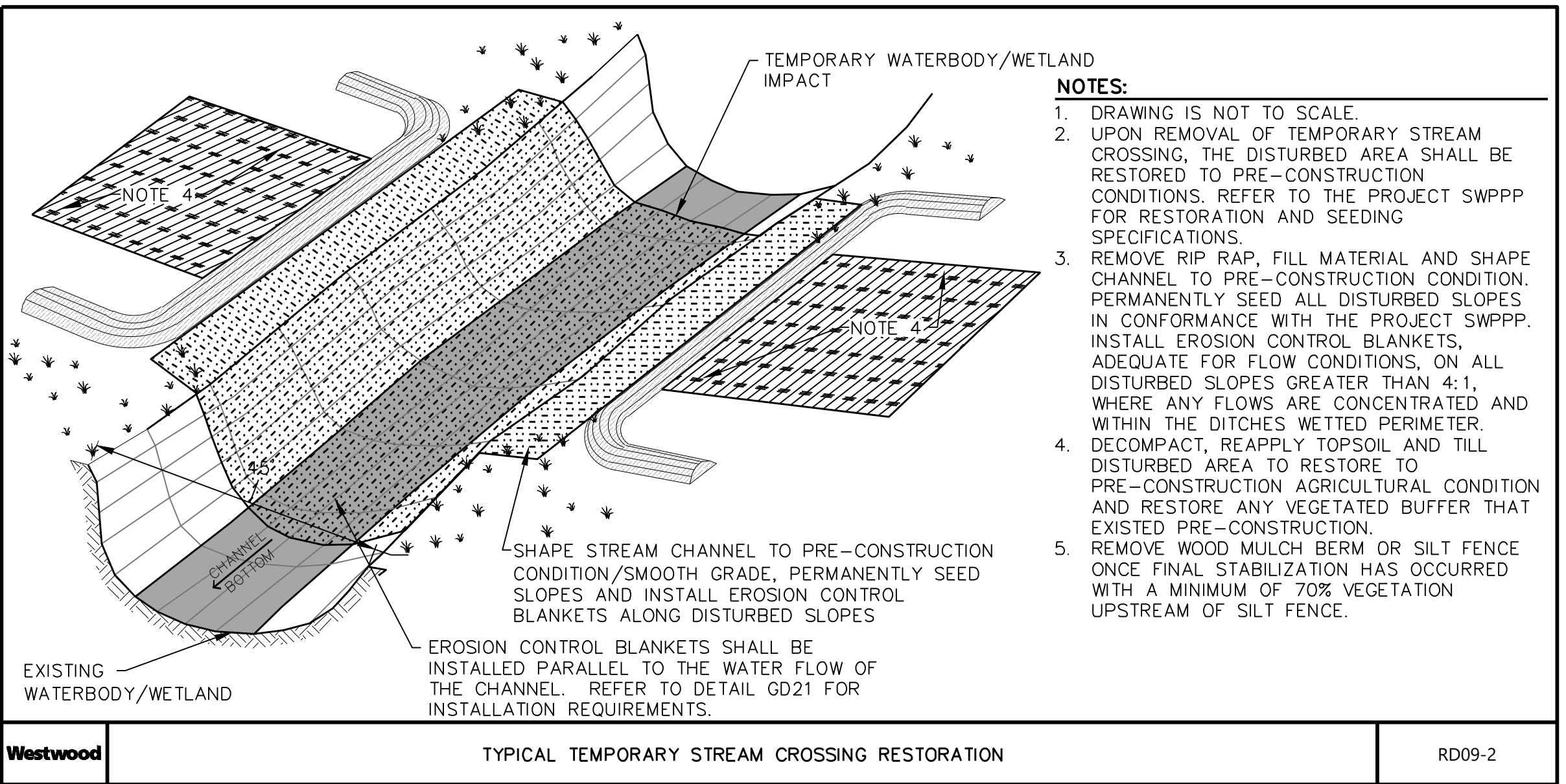
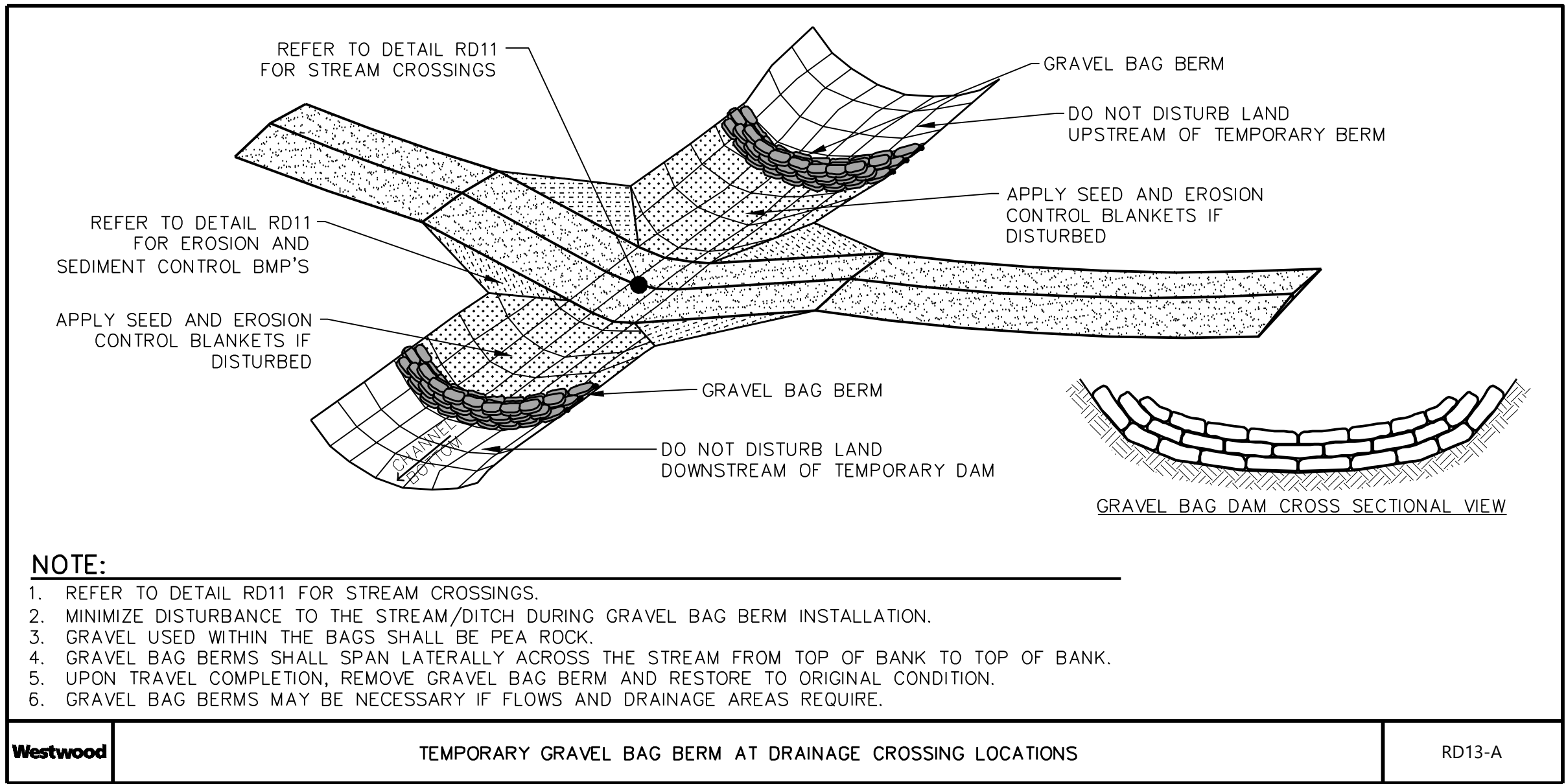
PREPARED FOR:



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Garnet Energy Center

Cayuga County, New York

Construction Details

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DATE: 5/13/2021

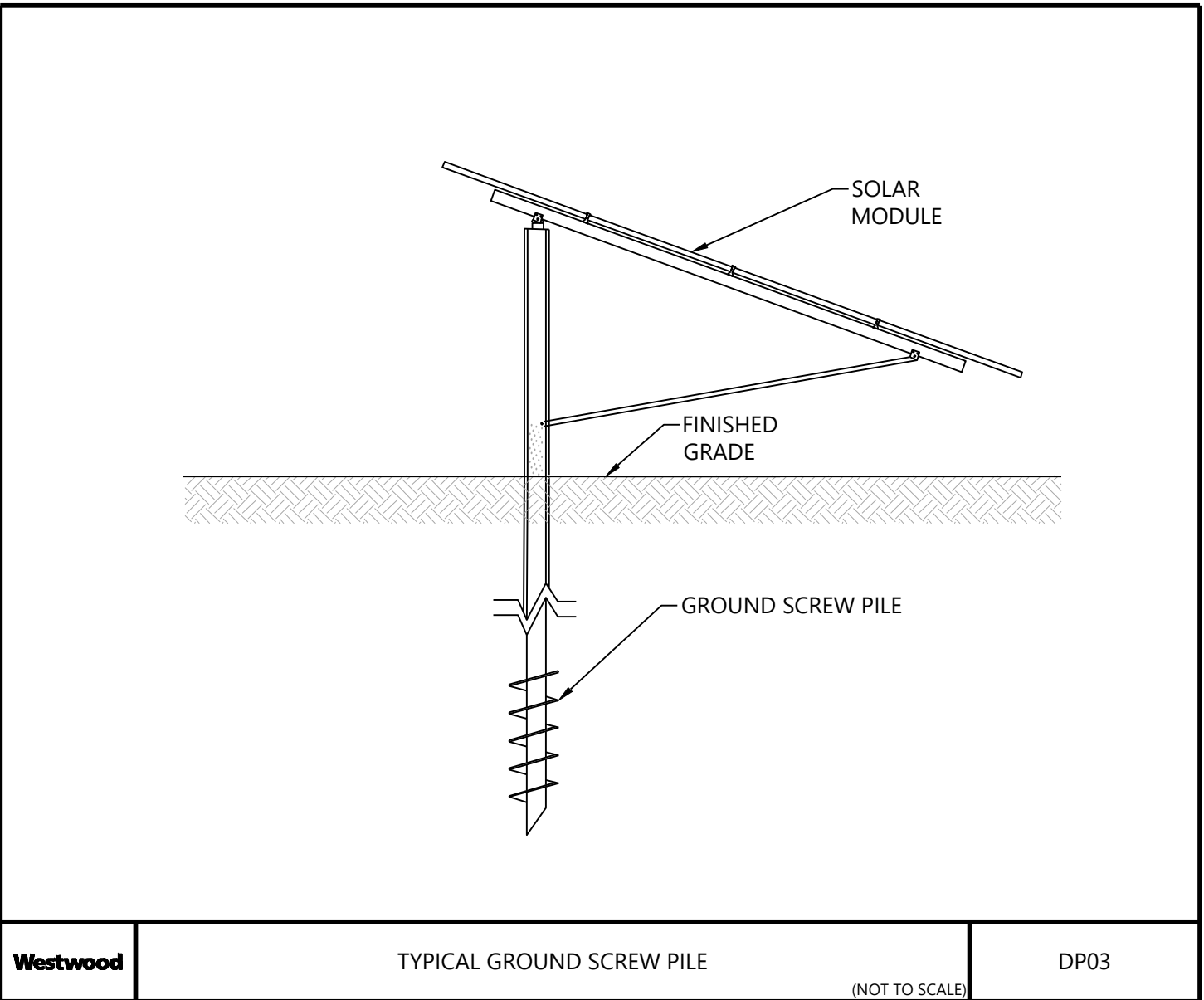
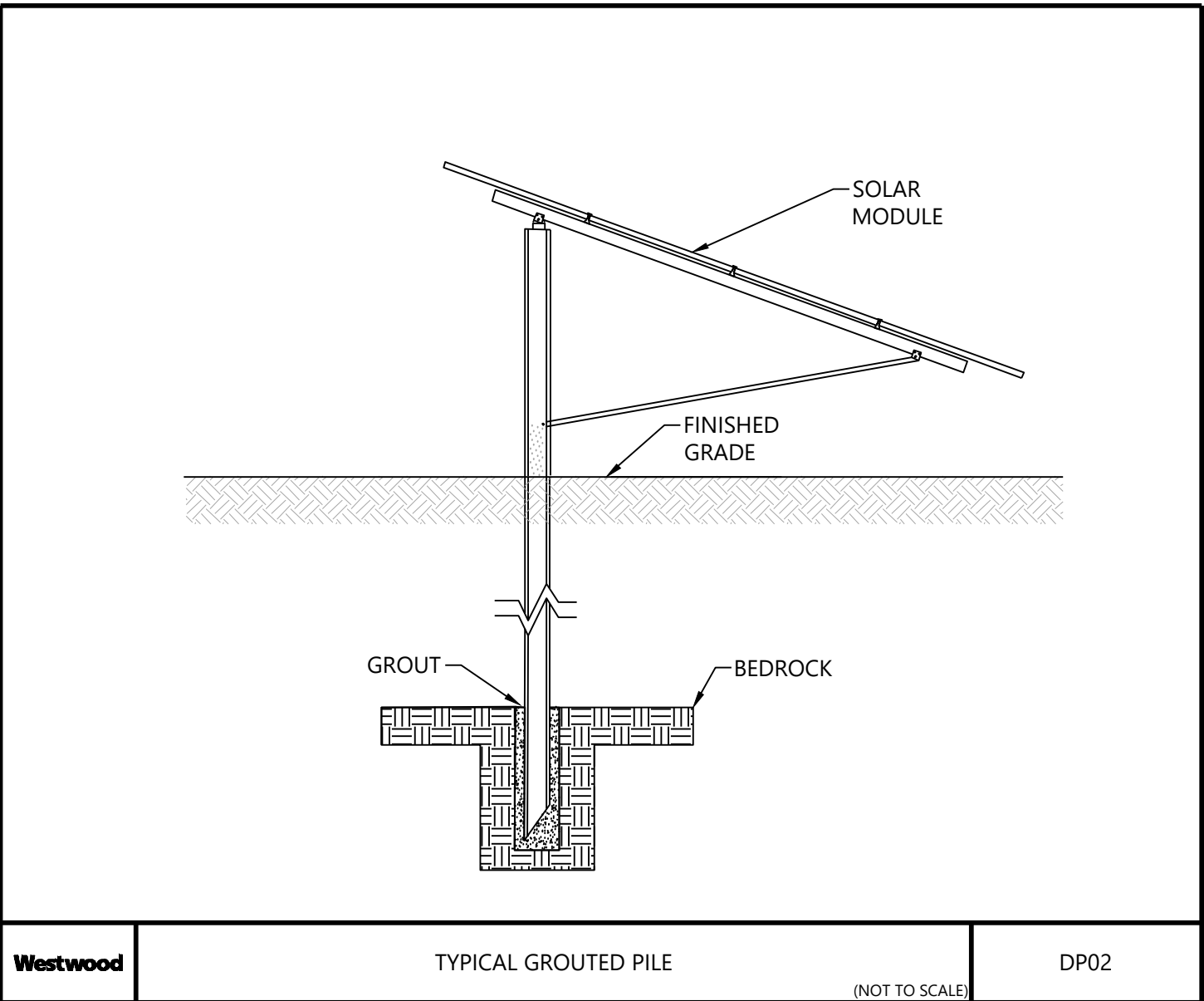
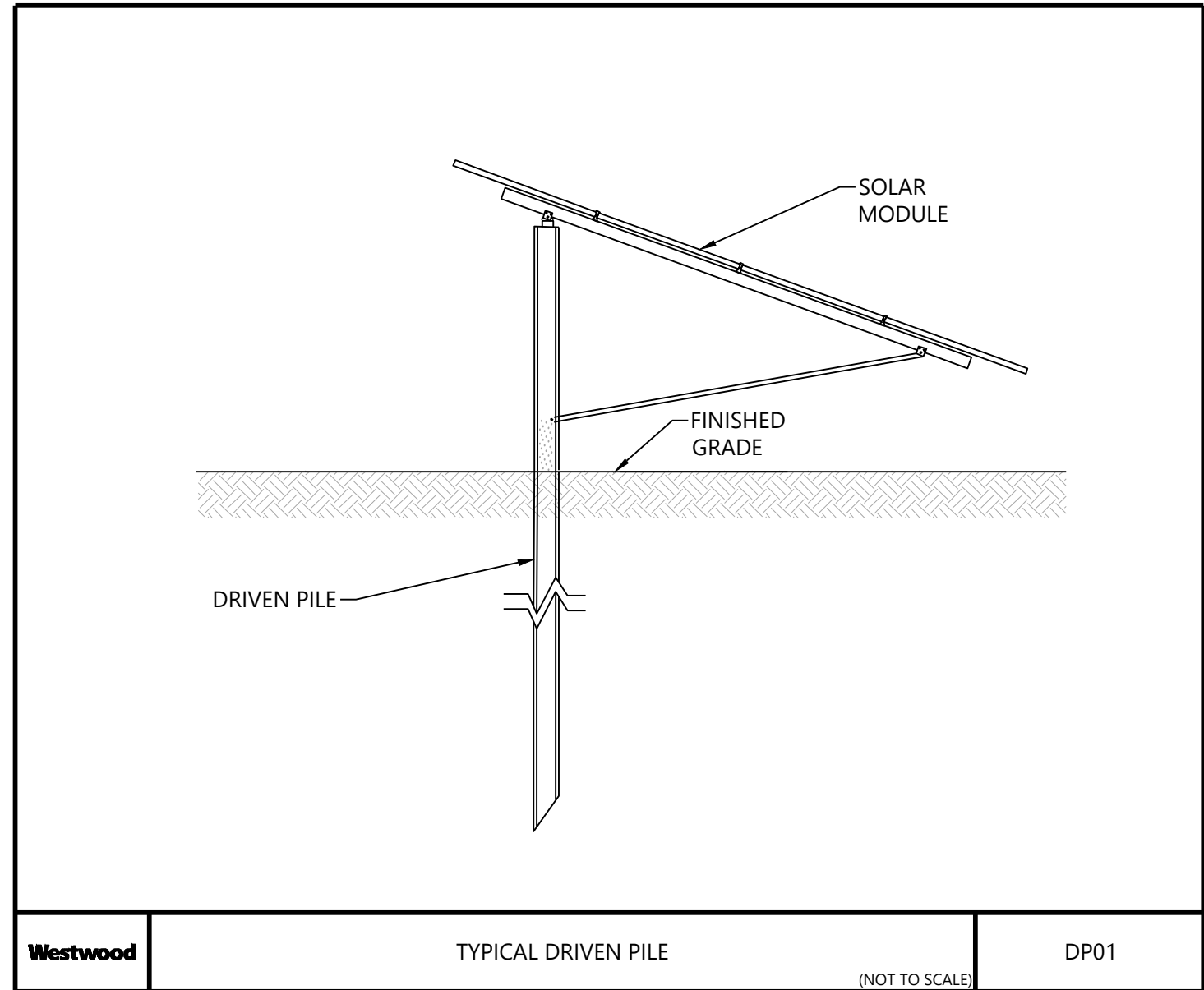
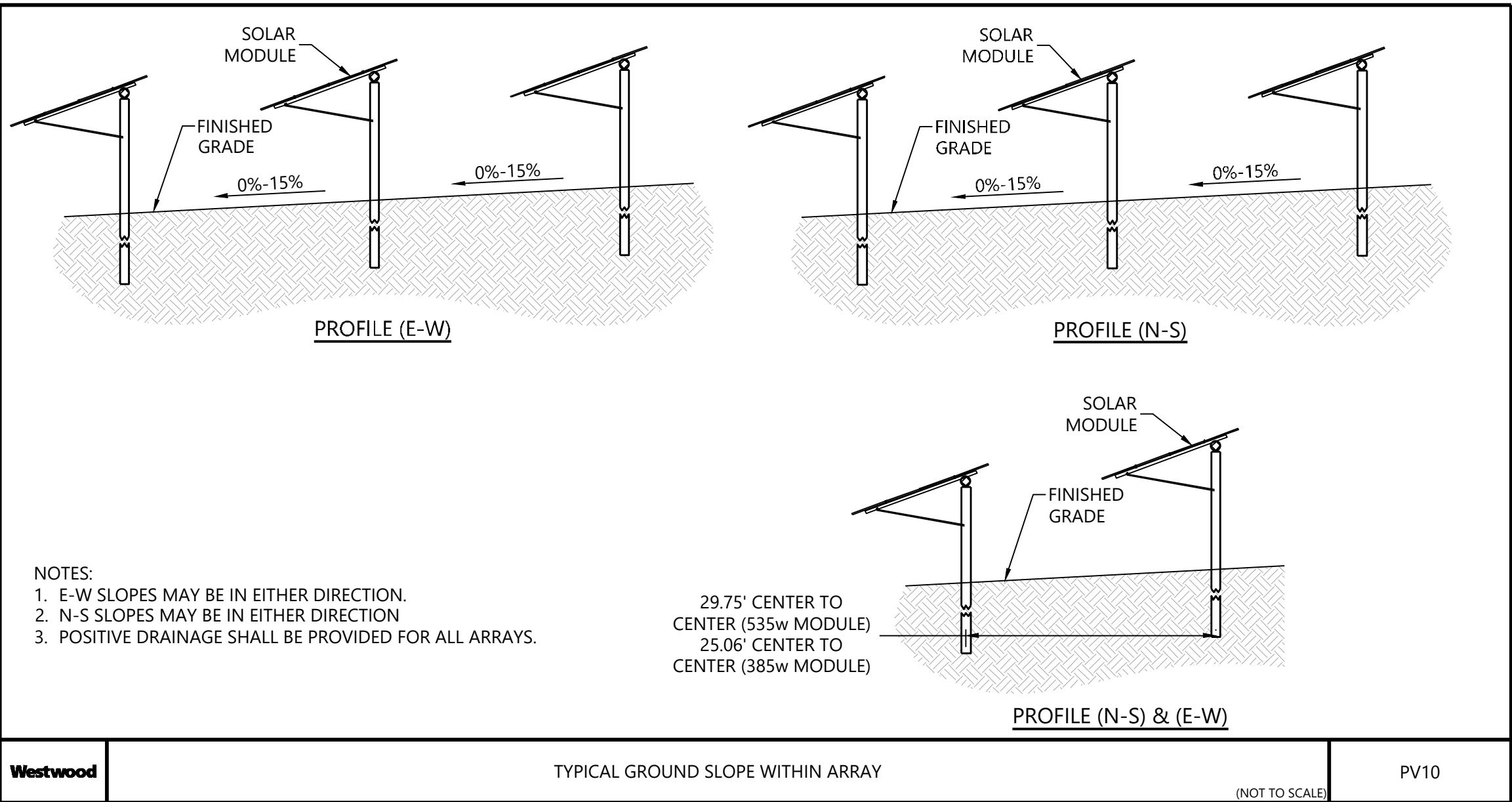
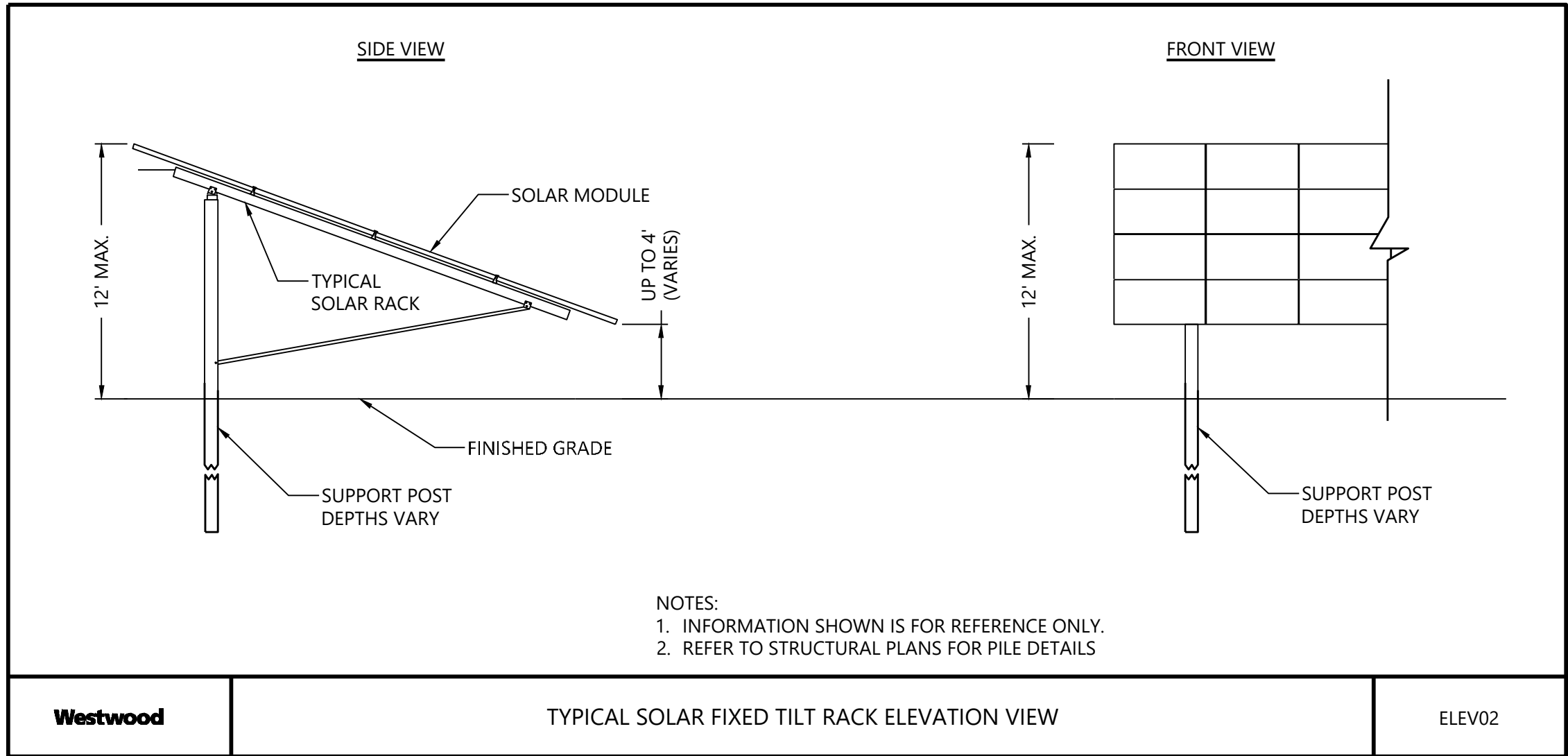
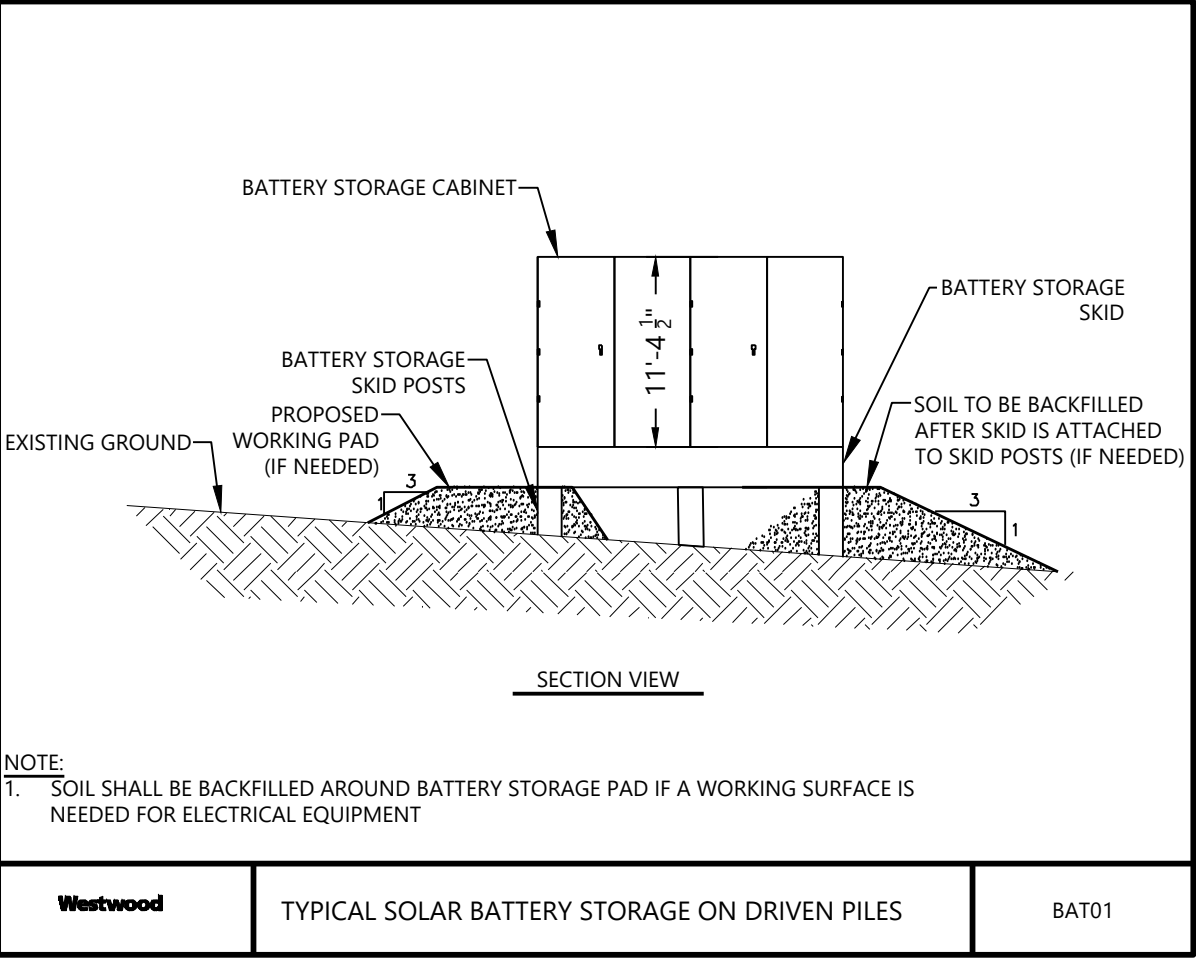
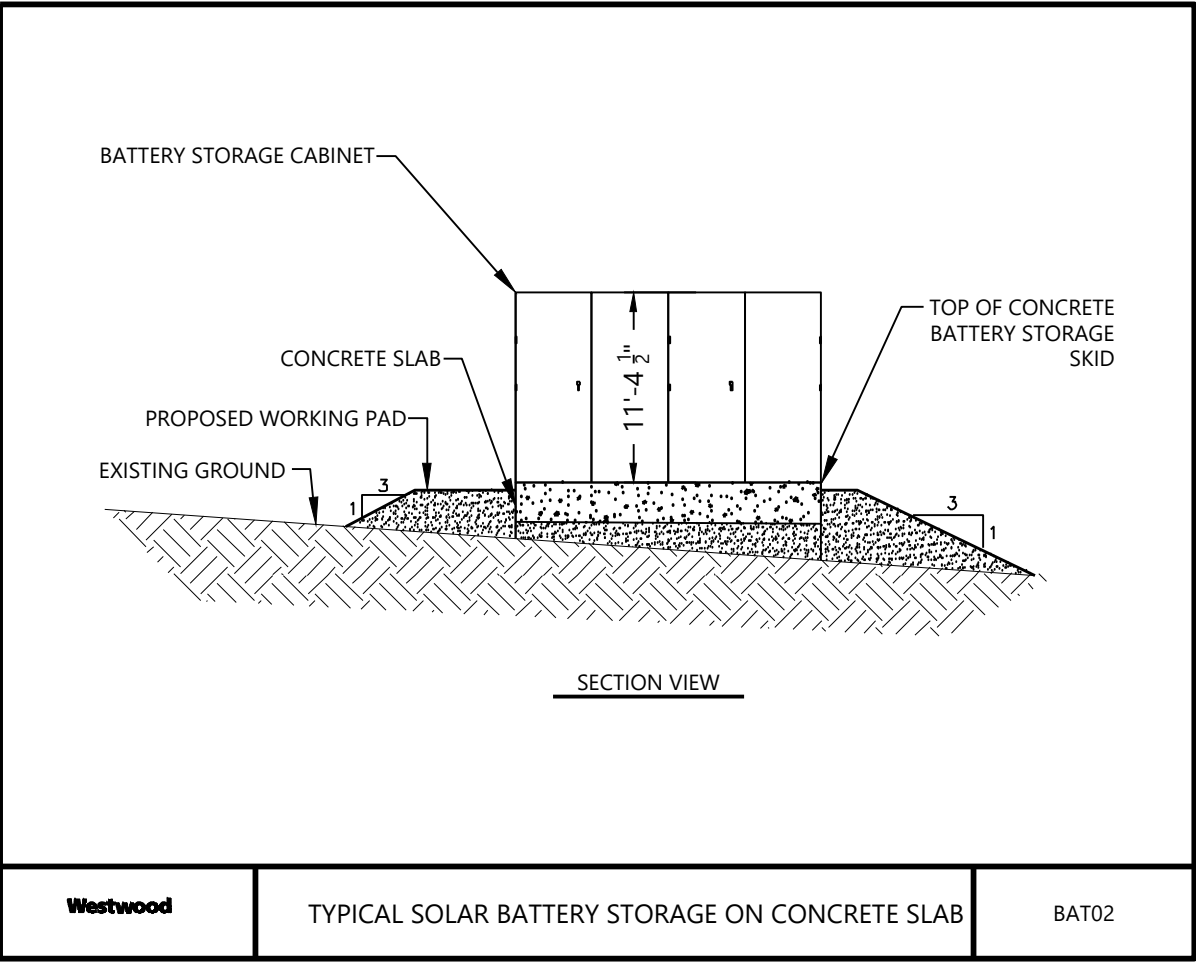
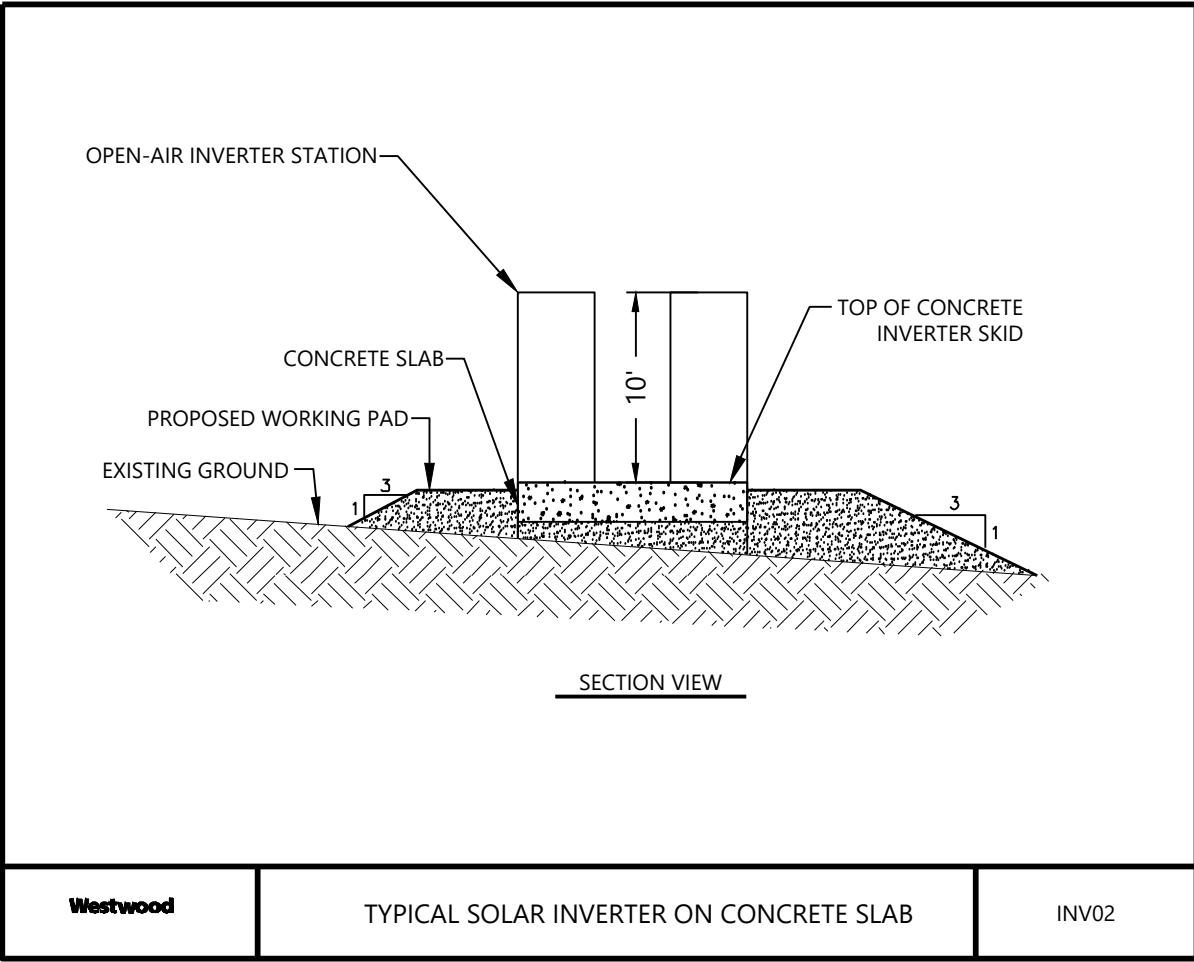
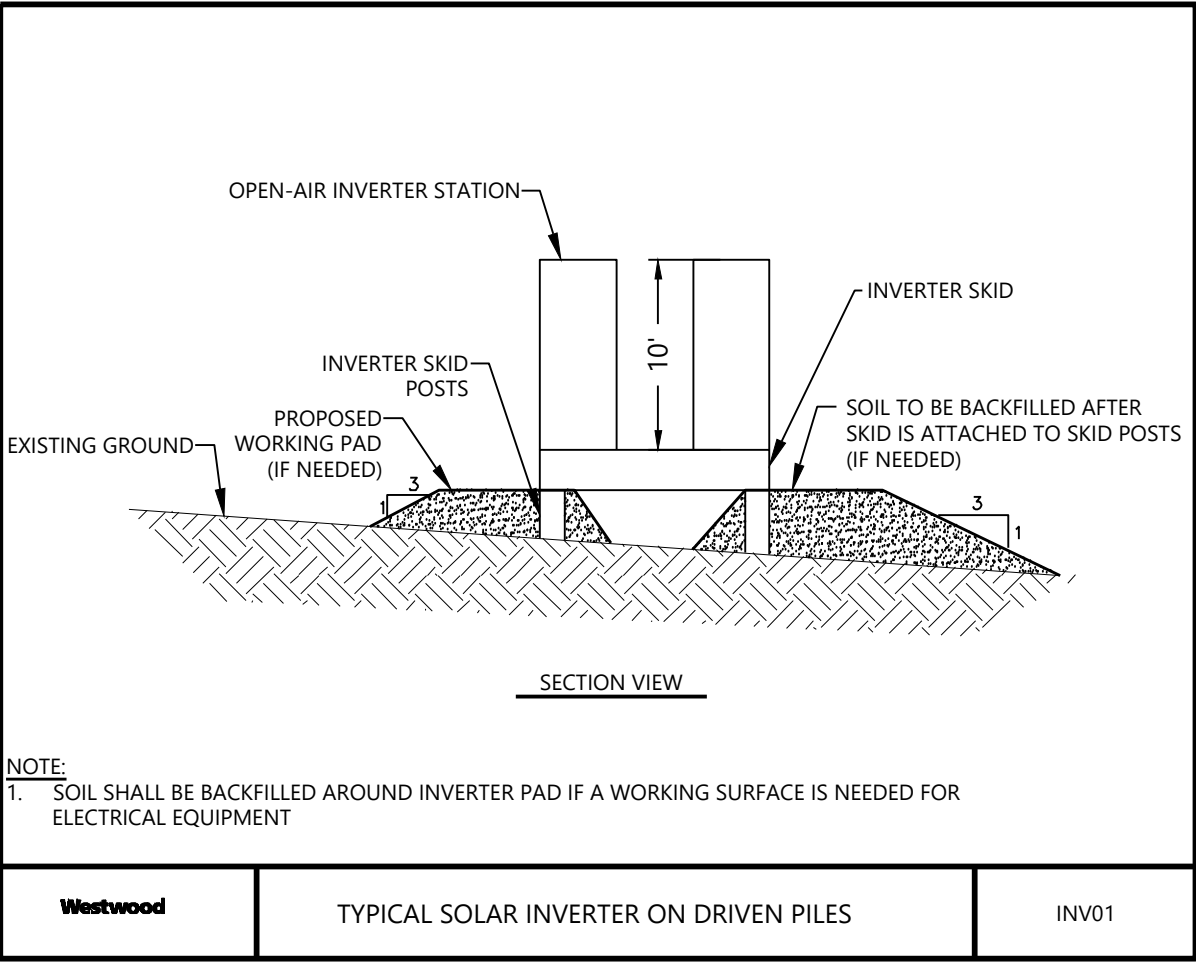
SHEET: C.602

PREPARED FOR:



700 Universe Boulevard
Juno Beach, FL 33408

REVISIONS:		
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Garnet Energy Center

Cayuga County, New York

Construction Details

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DATE: 5/13/2021

SHEET: C.604

PREPARED FOR:



700 Universe Boulevard
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REVISIONS:

#	DATE	COMMENT
A	05/13/2021	ISSUED FOR PERMIT

Garnet Energy Center

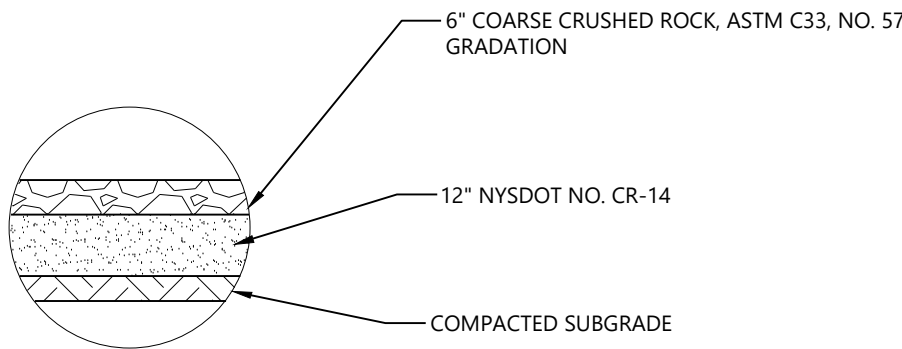
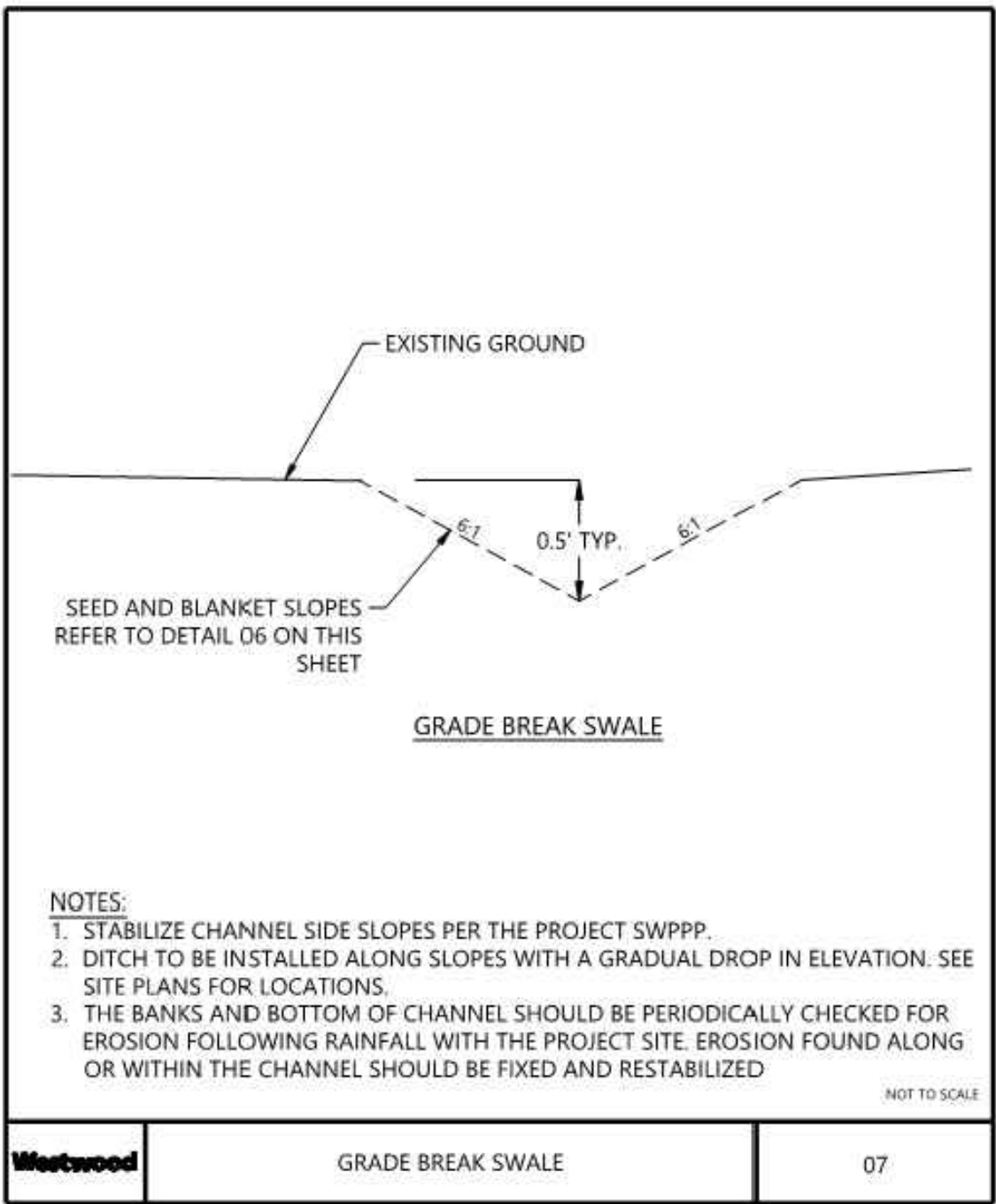
Cayuga County, New York

Construction Details

PRELIMINARY
NOT FOR CONSTRUCTION

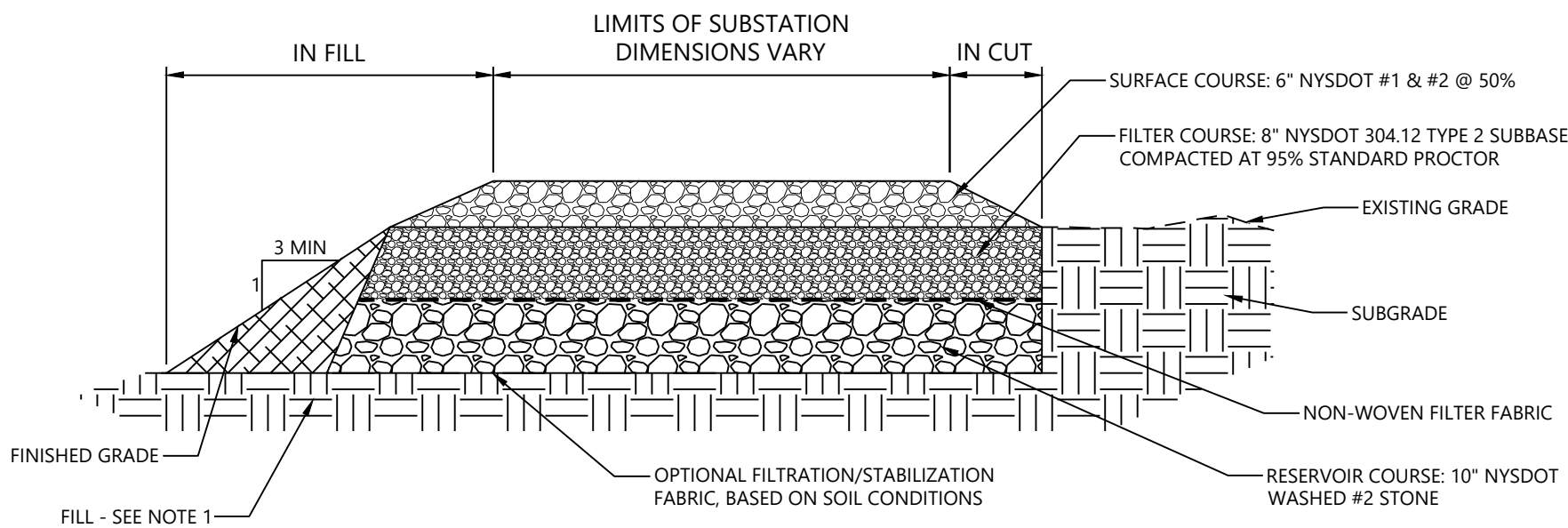
DATE: 5/13/2021

SHEET: C.605



SUBSTATION PAD CROSS SECTION - OPTION 1

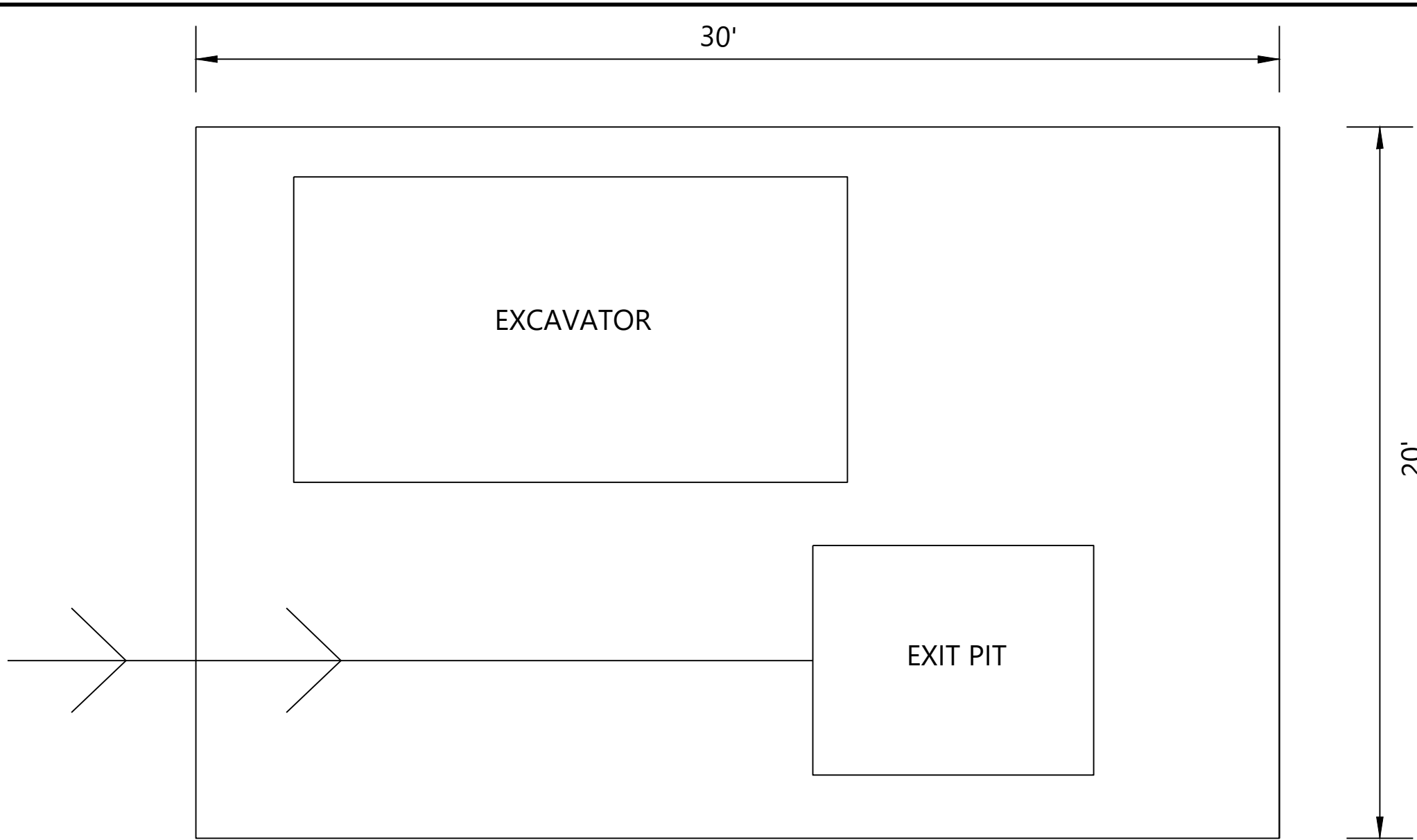
- NOTES:
1. STRUCTURAL SECTIONS SHOWN ARE THE MINIMUM THICKNESS REQUIREMENTS DURING NORMAL FIELD CONDITIONS. THE SECTIONS MAY NEED TO BE INCREASED BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. CONDITIONS INCLUDE BUT ARE NOT LIMITED TO CONSTRUCTION DURING UNUSUALLY WET PERIODS, OR IN LOW/WET AREAS.
 2. THIS DETAIL TO BE USED IN CONJUNCTION WITH NY DETAIL (FIGURE 6.12 INFILTRATION BASIN (I-2)). SEE SHEET C.609.



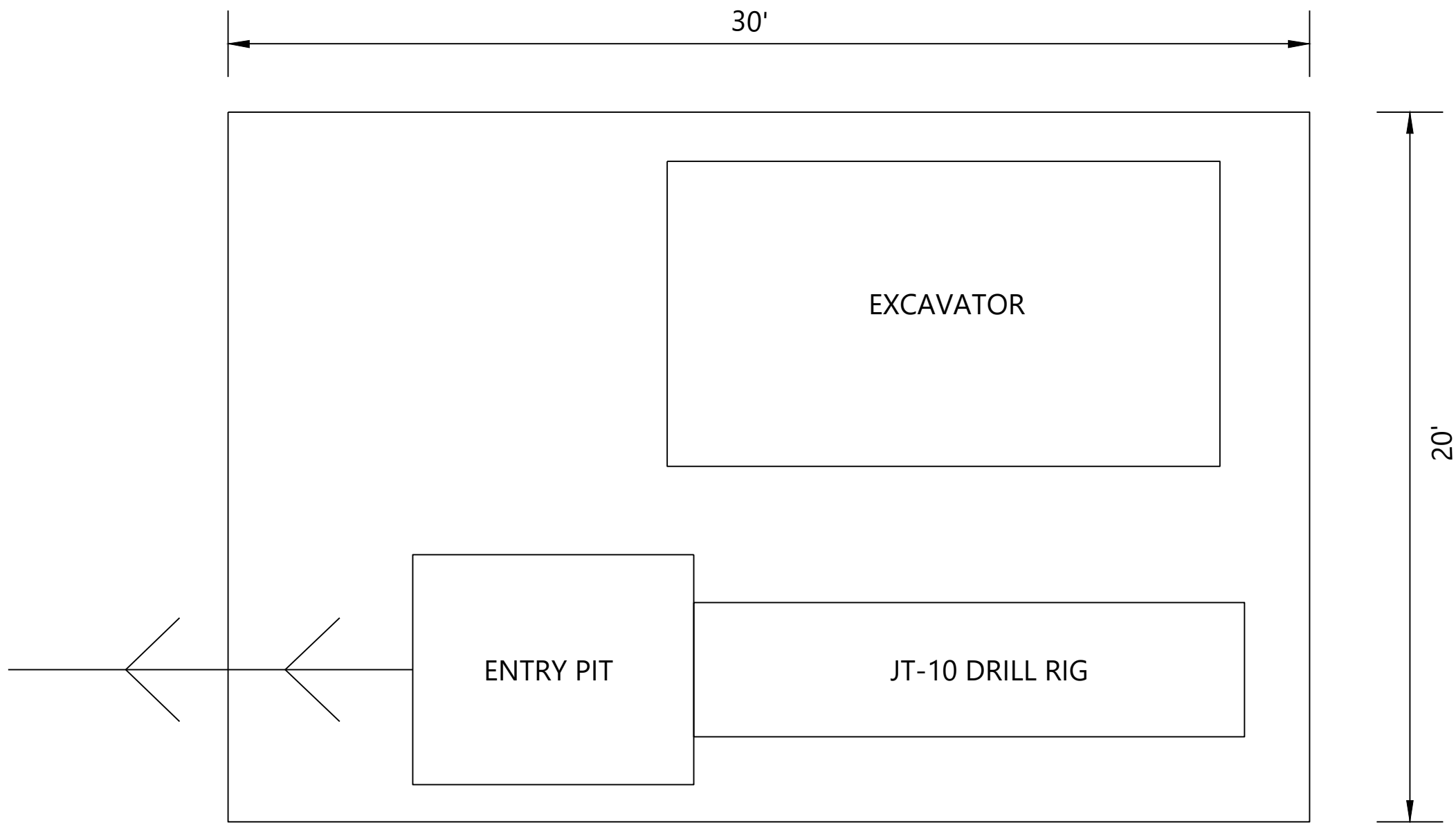
SUBSTATION PAD CROSS SECTION - OPTION 2

- NOTES:
1. ALL FILL USED FOR SIDE SLOPES SHALL BE ONSITE MATERIAL FROM AREA CUT TO CREATE THE SUBSTATION OR SHALL BE OFFSITE FILL COMPACTED TO HAVE AN INFILTRATION RATE LESS THAN THE SUBSTATION SUBGRADE.
 2. INFILTRATION TESTING SHALL BE COMPLETED AS REQUIRED BY APPENDIX D OF THE 2015 NYS STORMWATER MANAGEMENT DESIGN MANUAL, OR AS APPROVED BY THE NYS DEC REGIONAL OFFICE OR M54 REPRESENTATIVE.
 3. THIS SECTION SHALL BE APPLICABLE TO MEET THE STORMWATER MANAGEMENT REQUIREMENTS OF NEW DEVELOPMENT AND REDEVELOPMENT PROJECTS, PER THE 2015 NYS STORMWATER MANAGEMENT DESIGN MANUAL, FOR SITES WITH INFILTRATION RATES OF GREATER THAN OR EQUAL TO 0.5 INCHES PER HOUR.
 4. IF INFILTRATION BASIN PER NY DETAIL (FIGURE 6.12 INFILTRATION BASIN (I-2)) IS NOT USED, CONTRACTOR TO USE THE OPTION 2 CROSS SECTION.

Westwood	SUBSTATION PAD SECTION	RD02
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HDD RECEIVING SITE SCHEMATIC



DRILL OPERATION SITE SCHEMATIC

Westwood	HORIZONTAL DIRECTIONAL DRILLING PIT SCHEMATIC (NTS)	HDD-01
----------	---	--------

SYMBOL

EXISTING GROUND

50' MIN

6' MIN

3' S

EXISTING PAVEMENT

PROFILE

FILTER CLOTH

MOUNTABLE BERM (OPTIONAL)

EXISTING GROUND

50' MIN

12' MIN

12' MIN

EXISTING PAVEMENT

PLAN VIEW

CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, REQUIRED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS.
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

**STABILIZED
CONSTRUCTION
ACCESS**

SYMBOL

— (zigzag line) — (double line)

Diagram 1 (Top):

- BRIDGE DECK
- STEEL CABLE OR CHAIN
- TREE STUMP
- ACCEPTABLE ANCHOR

Diagram 2 (Bottom):

- 50'
- BRIDGE DECK
- STEEL CABLE OR CHAIN
- ACCEPTABLE ANCHOR
- SURFACE WATER DIVERTED BY SWALE

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
 NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
 NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

TEMPORARY ACCESS
 BRIDGE

SYMBOL

~t~

The diagram illustrates the construction and cross-section of a temporary access culvert. The top part shows a cross-section of the culvert installed in a trench. The culvert is a corrugated metal pipe with a circular opening. Above the pipe is a layer of aggregate fill, and below the pipe is a filter cloth. The surrounding soil is shown with hatching. The bottom part shows two plan views of the culvert. The left plan view shows the culvert with 'HIGH FLOW AREA' indicated by arrows pointing to the top of the culvert. The right plan view shows the culvert with 'HIGH FLOW AREA' indicated by arrows pointing to the top of the culvert. The culvert is surrounded by 'AGGREGATE FILL' and 'FILTER CLOTH'. The plan views also show 'FLAT BANKS' and 'STEEP BANKS'.

AGGREGATE FILL

FILTER CLOTH

AGGREGATE FILL

FILTER CLOTH

HIGH FLOW AREA

AGGREGATE FILL

FILTER CLOTH

FLAT BANKS

OR

HIGH FLOW AREA

AGGREGATE FILL

FILTER CLOTH

STEEP BANKS

AGGREGATE FILL

FILTER CLOTH

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

TEMPORARY ACCESS
CULVERT

SYMBOL → →

SPACING VARIES
DEPENDING ON
CHANNEL SLOPE

X

CUTOFF TRENCH
18" WIDE
6" DEEP

TOE

SAME ELEVATION

SLOPE

CREST
24' MAX
@ CENTER

PROFILE
NOT TO SCALE

GROUND LINE

15' MIN

9' MIN

FILTER FABRIC

DITCH BOTTOM

CUTOFF TRENCH
DESIGN BOTTOM

SECTION A-A
NOT TO SCALE

2

2

24' MAX
@ CENTER

18"

6"

FILTER FABRIC

SECTION B-B
NOT TO SCALE

$X = \frac{H \text{ (FT)}}{\text{SLOPE (FT./FT.)}}$

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 15 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR CULVERT AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES.

ADAPTED FROM DETAILS PROVIDED BY USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STONE CHECK DAM

CROSS SECTION

STORAGE AREA
1:1 MIN.
EXISTING GROUND
SLOPE 2:1 OR FLATTER
D MIN. LEVEL
SLOPE 2:1 OR FLATTER

PLAN VIEW

SWALE A SWALE B
C 1' 1'
D 4' 6'

CONSTRUCTION SPECIFICATIONS

- ALL CONSTRUCTION DITCHES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
- THE DITCH SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDIE NORMAL FLOW.
- FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
- ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DITCH.
- STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	AS-AC, OR LEASS	BS-AC (10%G)
1	0:3-30%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	31-50%	SEED AND STRAW MULCH	SEED AND COVER USING RECP
3	51-80%	SEED AND COVER WITH RECP	LINED WITH 4'-8" RIP-RAP OR GEOTEXTILE
4	81-100%	LINED WITH 4'-8" RIP-RAP OR GEOTEXTILE	SITE SPECIFIC DESIGN

- PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

CONSTRUCTION DITCH

Trench Breaker (also known as trench plugs) Spacing
(Adapted from the Pennsylvania State Standards)

Slope (%)	Spacing (feet)
0-5	Not Required except at stream or water body crossings
5-15	300
>15-30	200
>30	100

Notes:

1. Trench breakers are required upslope of all stream, river, or water-body crossings regardless of trench slope.
2. Depending on the specific conditions of slopes exceeding 40%, the spacing between trench breakers may continue diminishing as illustrated, or may cease once a spacing of 33 feet has been reached.
3. Trench breakers shall be sand bags or earth filled sacks (not topsoil), which are durable yet flexible and will conform to gradual shifting of pipeline and backfill, while serving their function, to impede the flow of subsurface water along the trench. Alternatively, cement filled bags or mortared stone may be used.
4. In agricultural lands, the top of trench breaker will not be closer than two feet from the restored surface.

Figure 12 Trench breakers (also known as trench plugs) should be placed in the trench before crossing water bodies and spaced in the trench based on the percent slope. These reduce trench erosion and trench water at the bottom of the slope. Illustration from New York Department of Agriculture Pipeline Standards.

Cayuga County, New York

PRELIMINARY
NOT FOR CONSTRUCTION

SHEET: C.606

[illegible]

SYMBOL

DISCHARGE TO UNCONFINED SECTION (FLARED OUTLET) (MINIMUM TAILWATER CONDITION)

PLAN VIEW

ENDWALL

$d/2$

$n/2$

A

L_o

PROFILE VIEW

DISCH

$d/2$ PIPE

SEW

NO OVERFALL

6" MIN.

3' MIN.

EXISTING STABILIZED CHANNEL

GRADED AGGREGATE FILTER OR FILTER CLOTH

10'

A

CROSS SECTION A-A

VARIES

6"

2

$d/2$

2

SEE RIPRAP STANDARDS AND SPECIFICATIONS

NOTE:
SEE RIPRAP STANDARDS AND SPECIFICATIONS
MINIMUM TAILWATER CONDITIONS

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

RIPRAP OUTLET PROTECTION EXAMPLE

SYMBOL

NO OVERFALL
TOP KEY SAME AS FLARED OUTLET

NOTE: DISCHARGE TO CONFINED CHANNEL SECTION

PLAN VIEW

PROFILE VIEW

MINIMUM DEPTH OF RIPRAP = MAXIMUM DEPTH OF FLOW (DOWNSTREAM NORMAL DEPTH OR DISCHARGE DEPTH, WHICHEVER IS GREATER).

CROSS SECTION A-A

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

RIPRAP OUTLET PROTECTION EXAMPLE

SYMBOL

DISCHARGE TO SEMI-CONFINED SECTION (MAXIMUM TAILWATER CONDITION)

PLANVIEW

PROFILE VIEW

SECTION A-A (AT END OF CULVERT)

SECTION B-B (AT END OF APRON)

NOTE.
SEE RIPRAP STANDARDS AND SPECIFICATIONS
MAXIMUM TAILWATER CONDITIONS

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

**RIPRAP OUTLET
PROTECTION
EXAMPLE**

CROSS SECTION NOT TO SCALE

Labels in Diagram: VARIES, CROWN RIDGE, 12" MIN, 6', SLOPE, Lane, Width Varies, Flow, WATER BAR, STABLE OUTLET.

Slope (%)	Spacing (ft.)
≤5	125
5 TO 10	100
10 TO 20	75
20 TO 35	50
≥35	25

CONSTRUCTION SPECIFICATIONS

1. INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
2. DISK OR STRIP THE SOD FROM THE BASE FOR THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
3. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
4. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.
5. VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE SEEDED AND MULCHED WITHIN 2 DAYS.
6. PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

ADAPTED FROM DETAILS PROVIDED BY USDA - NRCS,
 NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
 NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

WATER BARS

VEGETATIVE PLANTINGS OR OTHER
EROSION CONTROL TECHNIQUES

WILLOW BRUSH LAYER
1/2" TO 2" IN DIAMETER

EROSION
CONTROL
PRODUCT, IF
SPECIFIED

EXCAVATE SHALLOW TRENCH

HERBACEOUS PLUGS AS SPECIFIED

9 GAUGE GALVANIZED WIRE

BASEFLOW

FIBER ROLL

HARDWOOD POSTS
2" X 2" X 3'

CROSS SECTION
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. EXCAVATE A SHALLOW TRENCH SLIGHTLY BELOW BASEFLOW OR A 4" TRENCH ON SLOPE CONTOURS.
2. PLACE THE ROLL IN THE TRENCH AND ANCHOR WITH 2" X 2" POSTS PLACED ON BOTH SIDES OF THE ROLL AND SPACED Laterally ON 2' TO 4' CENTERS. TRIM THE TOP OF THE POSTS EVEN WITH THE EDGE OF THE ROLL, IF NECESSARY.
3. NOTCH THE POSTS AND Tie TOGETHER, AROUND THE ROLL, WITH 9 GAUGE GALVANIZED WIRE OR 1/8" DIAMETER BRAIDED NYLON ROPE.
4. PLACE SOIL EXCAVATED FROM THE TRENCH BEHIND THE ROLL AND HAND TAMP PLANT WITH SUITABLE HERBACEOUS OR WOODY VEGETATION AS SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS. VEGETATION SHALL BE PLACED IMMEDIATELY ADJACENT TO THE ROLL TO PROMOTE ROOT GROWTH INTO THE FIBER. HERBACEOUS VEGETATION, IF SPECIFIED, SHALL BE PLANTED INTO THE FIBER ROLL.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

FIBER ROLL



#	DATE	COMMENT
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Cayuga County, New York

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SHEET: C.607

C.607

Figure 4.1
Angles of Repose of Riprap Stones (FHWA)

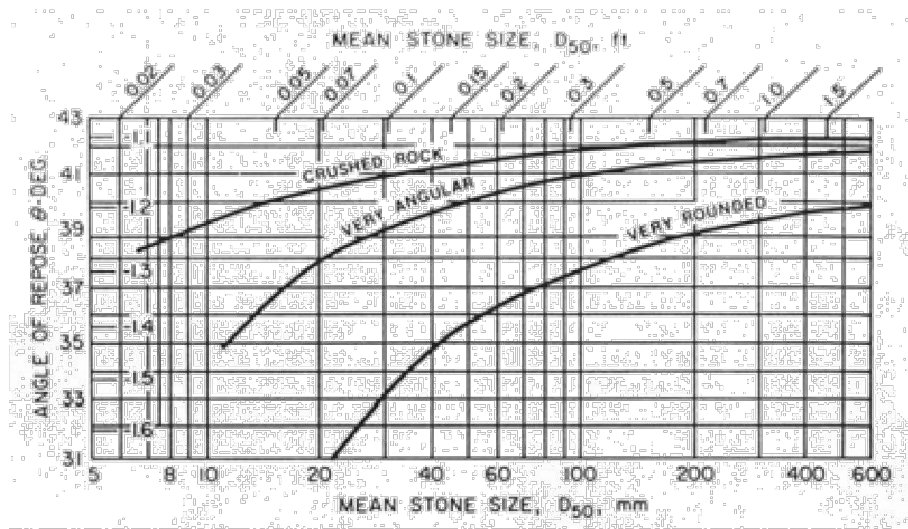
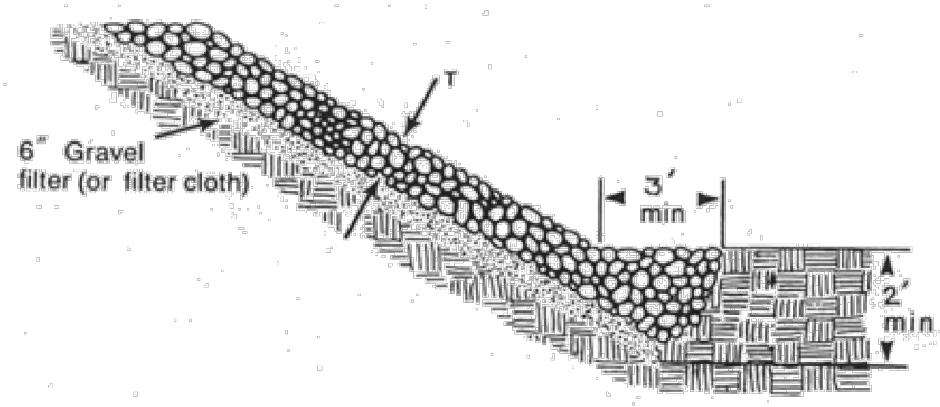


Figure 4.2
Typical Riprap Slope Protection Detail



New York State Standards and Specifications
For Erosion and Sediment Control

Page 4.9

November 2016

FIGURE 4.3
RIPRAP CHANNEL STABILIZATION

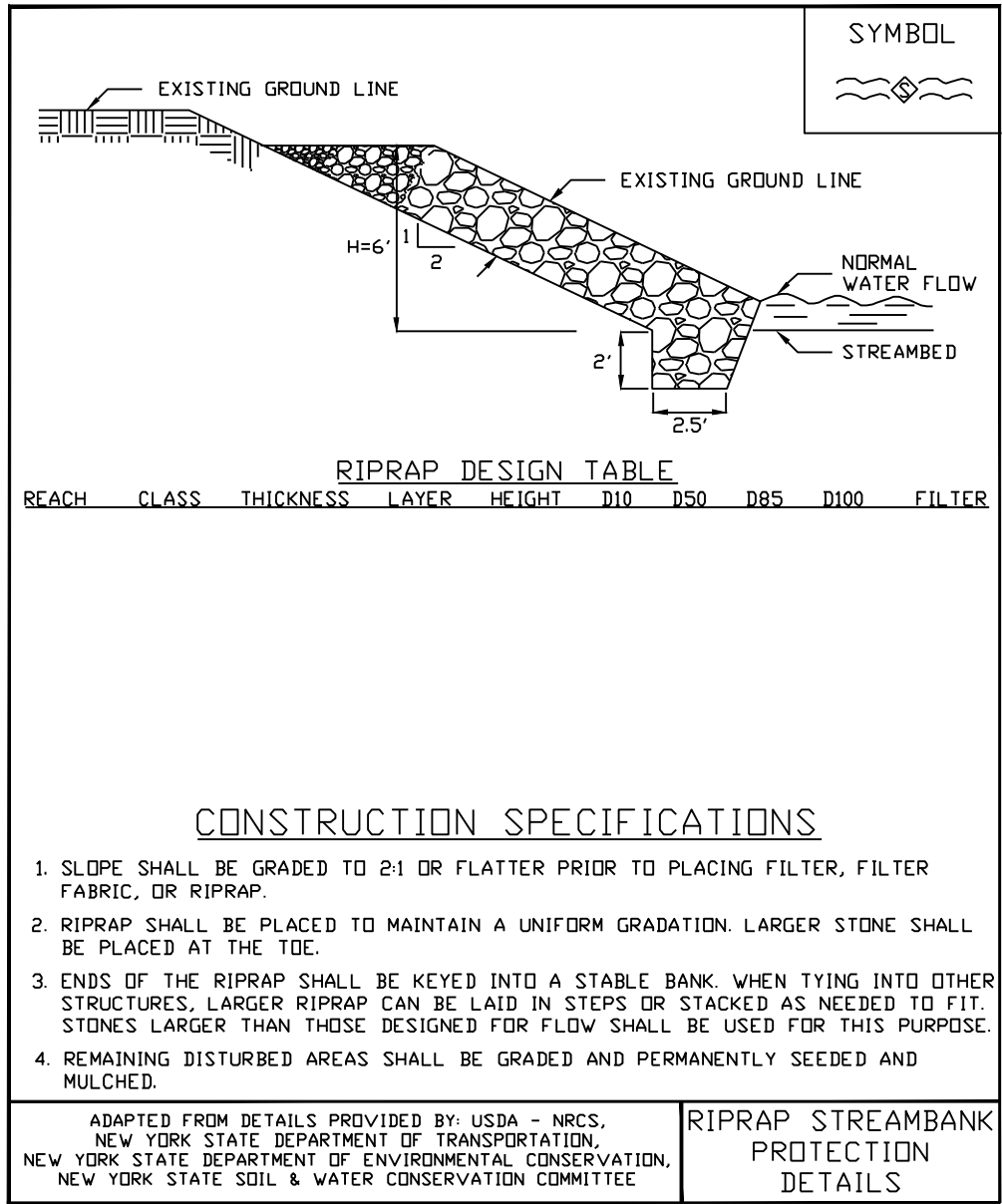


FIGURE 4.4
CHANNEL STABILIZATION METHODS

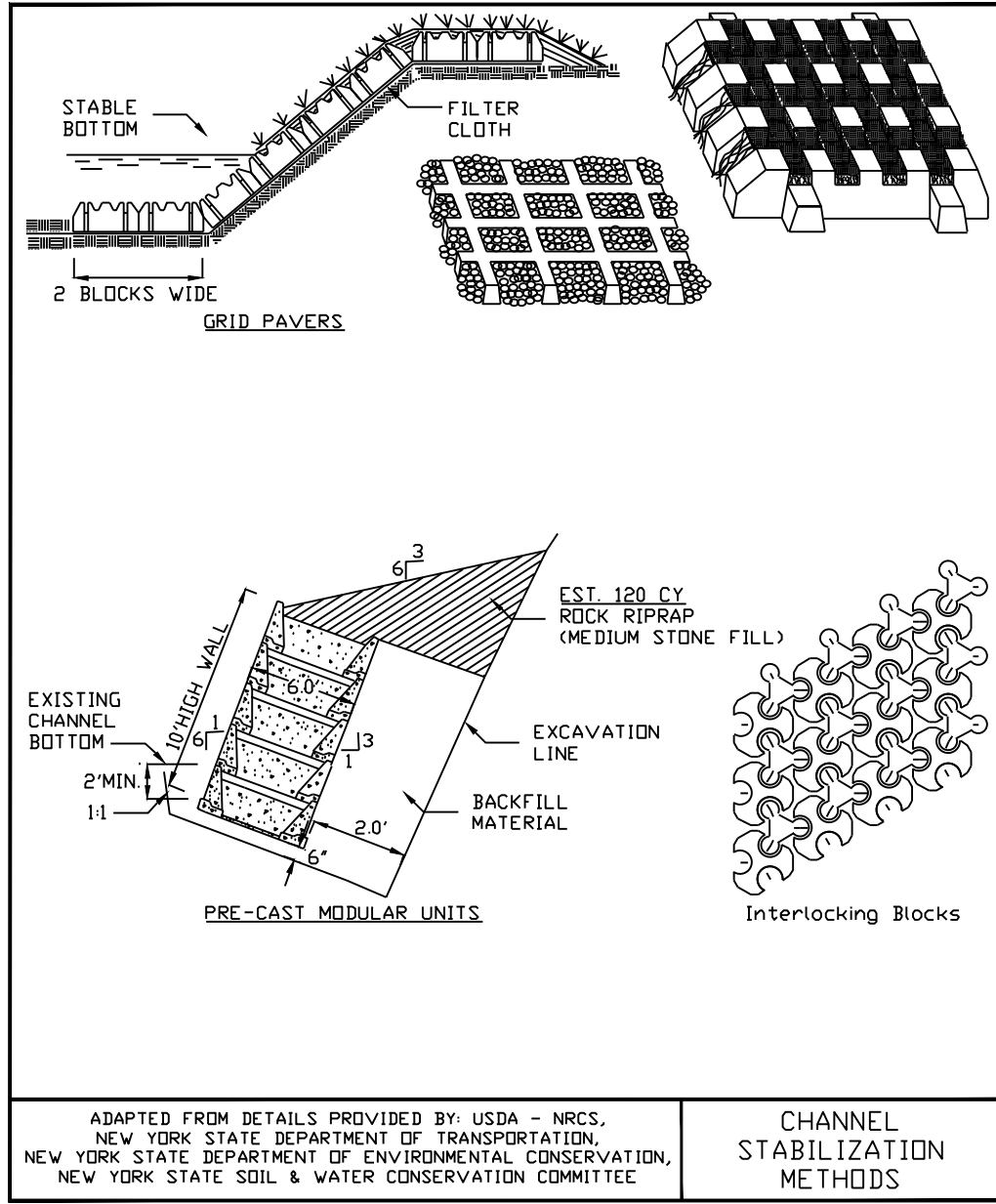


FIGURE 4.9
TYPICAL SECTION OF SERRATED CUT SLOPE

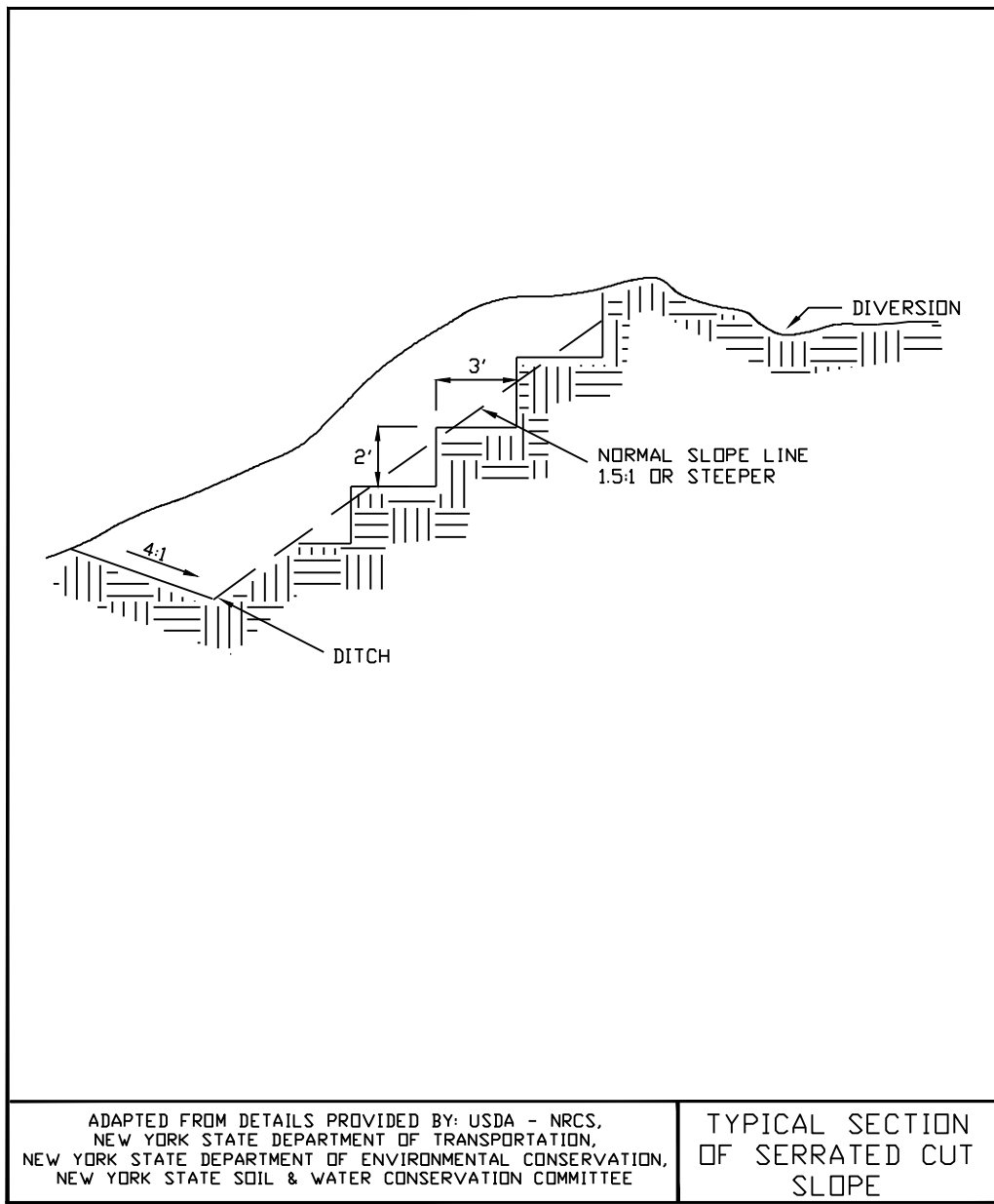


FIGURE 4.10
LANDGRADING

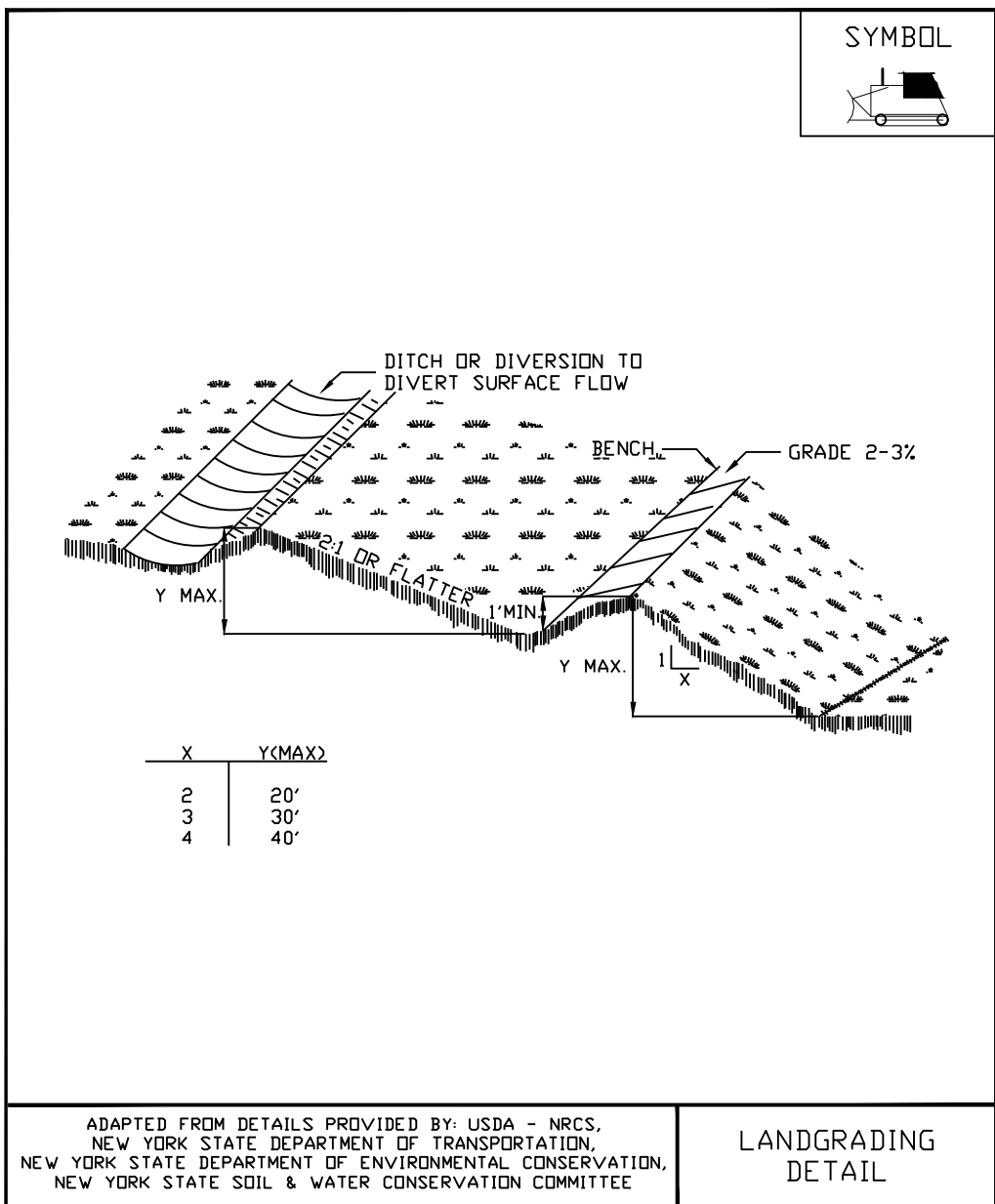
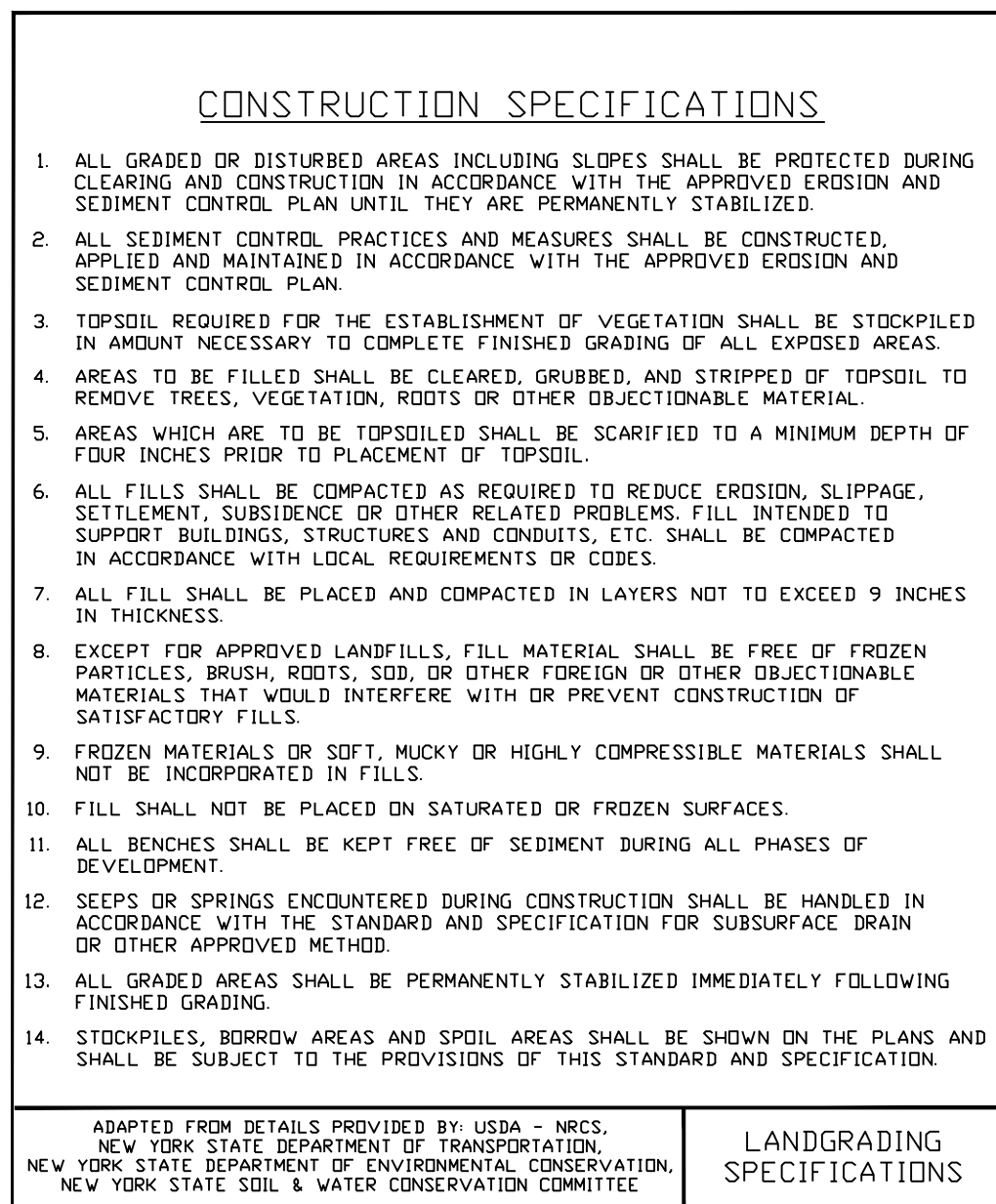


FIGURE 4.11
LANDGRADING - CONSTRUCTION SPECIFICATIONS



PREPARED FOR:



700 Universe Boulevard
Juno Beach, FL 33408

REVISIONS:		
#	DATE	COMMENT
A	05/13/2021	ISSUED FOR PERMIT

Garnet Energy Center

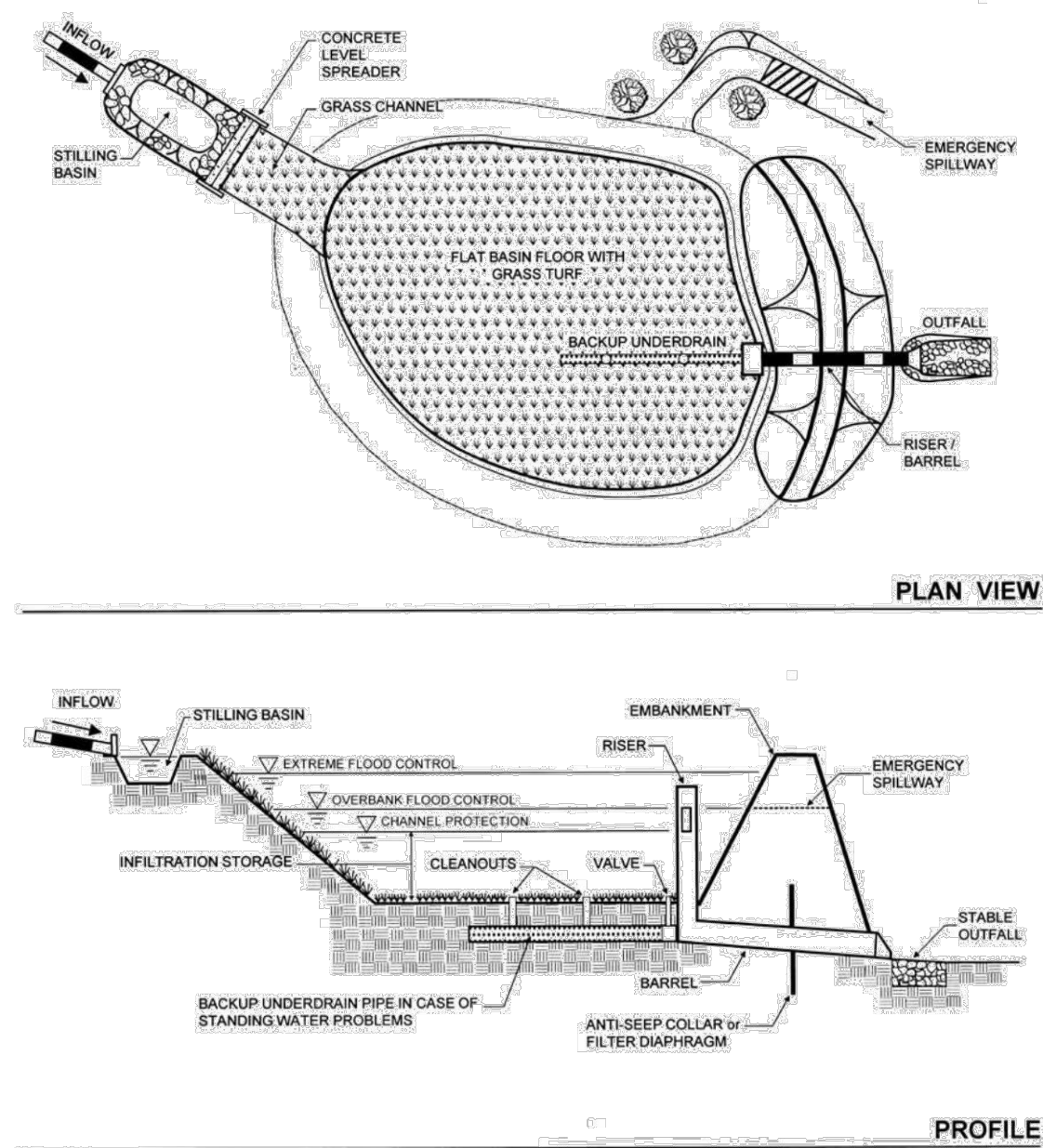
Cayuga County, New York

New York Erosion Control Details

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 5/13/2021

SHEET: C.608



The diagrams illustrate three methods for stabilizing slopes:

- DEBRIS FROM SLOPE ABOVE IS CAUGHT BY STEPS:** This diagram shows a cross-section of a slope with a series of steps. A drainage ditch is shown on the left, labeled "DRAINAGE". The steps are labeled "2'-3' (DEPENDING ON MATERIAL)". The slope is labeled "GREATER THAN VERTICAL". A circular inset shows a close-up of the steps, with a note: "CUT STEPS WITH DRAINAGE TO THE BACK. AVOID LOW SPOTS."
- STAIR STEPPING CUT SLOPES:** This diagram shows a cross-section of a slope with a series of steps. A circular inset shows a close-up of the steps, with a note: "6-15"
- GROOVING SLOPES:** This diagram shows a cross-section of a slope with a series of grooves. A circular inset shows a close-up of the grooves, with a note: "1-3"

Below the diagrams, the text reads: "GROOVING SLOPES".

At the bottom of the page, the text reads: "ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE".

On the right side of the page, the text reads: "SURFACE ROUGHENING DETAILS".

ADAPTED FROM DETAILS PROVIDED BY: KEN BARBER, BARBER
ENGINEERING

SEDIMENT DIKE



FLOW

CREST

KEY TRENCH

NYS DOT KEY STONE

ROCK SIZE = $d_{50} = 9'$

SECTION A-A
NOT TO SCALE

ABUTMENT

CREST
(LENGTH VARIES)

KEY TRENCH AND FILTER FABRIC

PROFILE
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. THE AREA UNDER THE ROCK DAM SHALL BE CLEARED AND STRIPPED OF ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE RESERVOIR SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT REMOVAL.
2. DIMENSIONS SHOWN ARE MINIMUM. TRENCH SHALL BE EXCAVATED FROM ABUTMENT TO ABUTMENT ON THE DAM CENTERLINE. FILTER FABRIC SHALL BE PLACED FROM UPSTREAM EDGE OF KEYTRENCH TO DOWNSTREAM EDGE OF ABUTMENT JOINTS WITH LAP A MINIMUM OF 3 FT. WITH UPSTREAM STRIP ON TOP.
3. CONSTRUCT THE ROCK EMBANKMENT TO THE DIMENSIONS SHOWN ON THE DRAWING. ROCK ABUTMENTS SHALL BE MAINTAINED 2 FT. ABOVE THE CREST.
4. THE ROCK DAM SHALL BE CONSTRUCTED PRIOR TO CLEARING THE BASIN AREA. STABILIZE ALL DISTURBED AREAS, EXCEPT THE BASIN AREA, WITH TEMPORARY SEEDING.
5. FENCES AND WARNING SIGNS SHOULD BE PLACED AS APPROPRIATE.

MAXIMUM DRAINAGE AREA: 50 ACRES

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

ROCK DAM

The image contains two technical drawings illustrating the installation of a compost filter sock.

SECTION VIEW: This cross-sectional diagram shows the filter sock (hatched area) placed over a "DISTURBED AREA" and adjacent to an "UNDISTURBED AREA". The sock is secured by "2"x2" WOODEN STAKES PLACED 10' O.C." and a "COMPOST FILTER SOCK" label points to the material. The sock has a "BLOWN/PLACED FILTER MEDIA" layer. A "12" MIN" dimension indicates the minimum depth of the sock. The "EXISTING CONTOURS" are shown as dashed lines.

PLAN VIEW: This top-down diagram shows the "DISTURBED AREA" and "UNDISTURBED AREA" separated by a "COMPOST FILTER SOCK". The sock is secured by "2"x2" WOODEN STAKES PLACED 10' O.C." along its edges. A "12' O.C." dimension indicates the spacing between stakes. The "EXISTING CONTOURS" are shown as dashed lines. A "12' O.C." dimension is also shown for the width of the sock.

ADAPTED FROM DETAILS PROVIDED BY: FILTREXX

COMPOST FILTER SOCK

PERSPECTIVE VIEW

10' MAX. C. TO C.

WOVEN WIRE FENCE MIN. 14 GAUGE 1/2" MAX. 6" MESH SPACING

36" MIN. LENGTH FENCE POSTS DRIVEN MIN. 16" INTO GROUND.

HEIGHT OF FILTER = 18" MIN

6' MIN.

SECTION VIEW

36" MIN. FENCE POST

WOVEN WIRE FENCE MIN. 14 GAUGE 1/2" MAX. 6" MESH SPACING WITH FILTER CLOTH

20" MIN.

UNDISTURBED GROUND

FLOW

COMPACTED SOIL

EMBED FILTER CLOTH A MIN. OF 6" IN GROUND

16" MIN.

4"

CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "I" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. ADJOIN EACH OTHER THEY SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MINERAL 100X, STABILINKA T140X, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
 NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
 NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

**REINFORCED
 SILT FENCE**

4" VERTICAL FACE

**BEDDING DETAIL
NOT TO SCALE**

DRAINAGE AREA NO MORE THAN 1/4 ACRE PER 100 FEET OF STRAW BALE DIKE FOR SLOPES LESS THAN 25%.

ANGLE FIRST STAKE TOWARDS PREVIOUSLY LAID BALE.

FLOW

BOUND BALES PLACED ON CONTOUR

2 RE-BARS, STEEL PICKETS OR 2"x2" STAKES PLACED 1 1/2" TO 2" IN GROUND. DRIVE STAKES FLUSH WITH TOP OF BALE.

**ANCHORING DETAIL
NOT TO SCALE**

CONSTRUCTION SPECIFICATIONS

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

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	STRAW BALE DIKE
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Cayuga County, New York

PRELIMINARY
NOT FOR CONSTRUCTION

SHEET: C.609

Figure 6.12 Infiltration Basin (I-2)

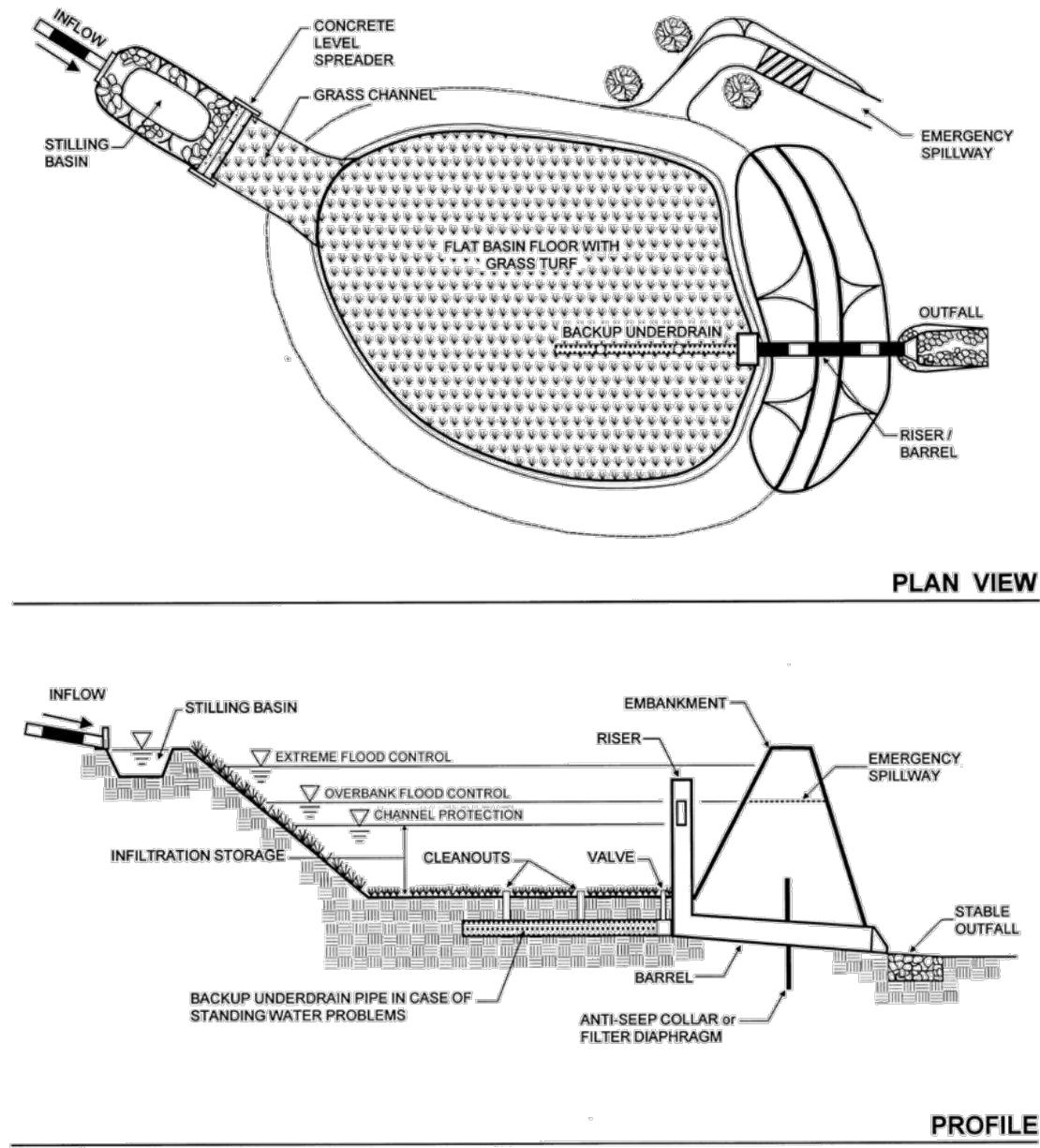
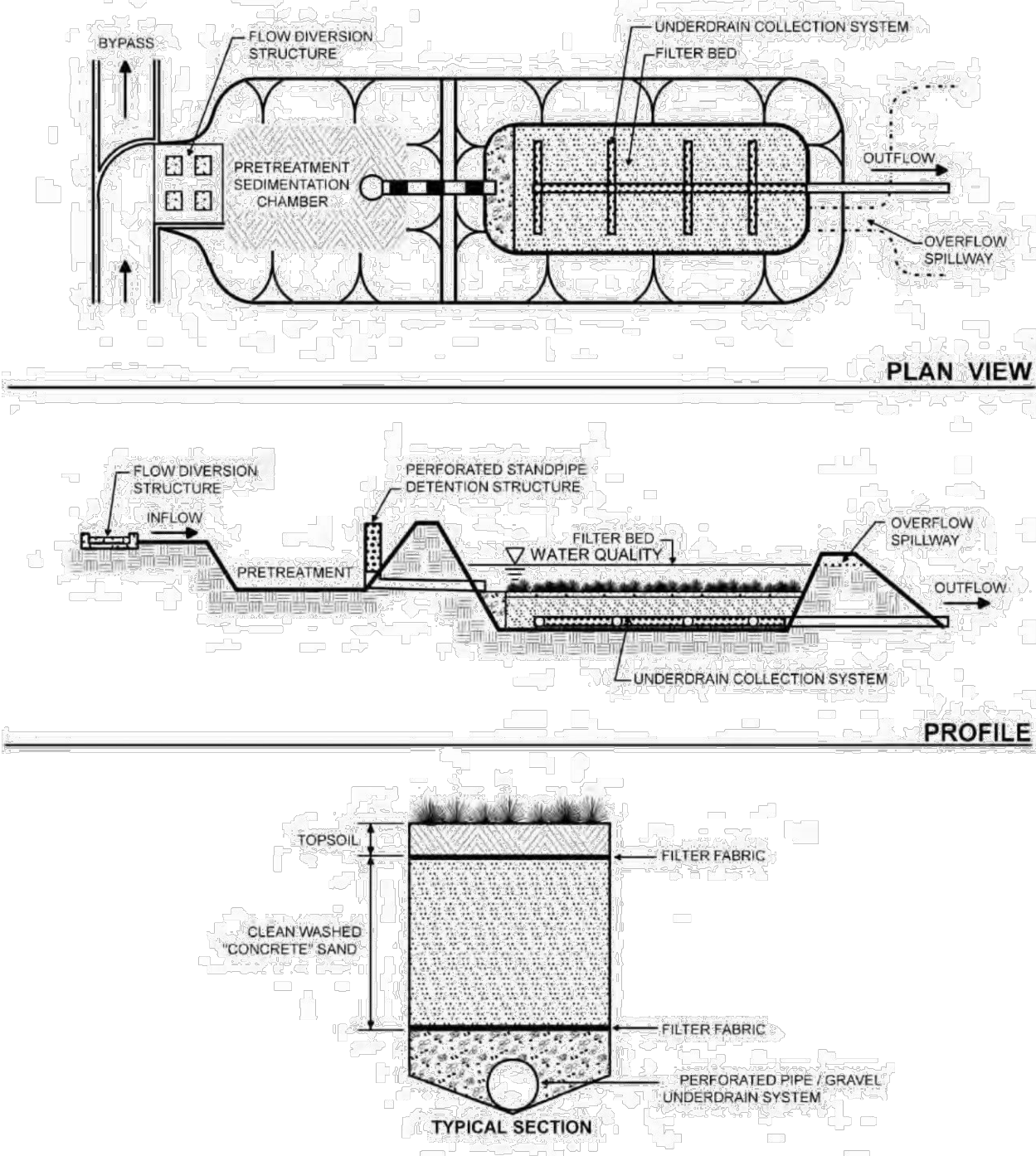


Figure 6.15 Surface Sand Filter (F-1)



PREPARED FOR:



700 Universe Boulevard
Juno Beach, FL 33408

REVISIONS:		
#	DATE	COMMENT
A	05/13/2021	ISSUED FOR PERMIT

**Garnet Energy
Center**

Cayuga County, New York

New York Erosion
Control Details

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 5/13/2021

SHEET: C.610

