

CONSTRUCTION PLANS FOR FLOWERS SOLAR LLC

3188 BAILEYS XRDS ROAD
BENSON, NC 27504

NPDES GENERAL PERMIT NCG 010000

1. THE INTENT OF THIS PERMIT IS TO COVER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE OR FROM CONSTRUCTION ACTIVITIES INVOLVING LESS THAN ONE (1) ACRE AND WHICH ARE APART OF A COMMON PLAN OF DEVELOPMENT OR SALE EQUAL TO OR GREATER THAN ONE (1) ACRE.
2. YOU MUST IMPLEMENT THE EROSION AND SEDIMENT CONTROL PLAN APPROVED FOR YOUR PROJECT BY THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OR BY AN APPROVED LOCAL PROGRAM.
3. WHEN-EVER LAND DISTURBING ACTIVITY THAT WILL DISTURB MORE THAN ONE ACRE IS UNDERTAKEN ON A TRACT, THE PERSON CONDUCTING THE LAND-DISTURBING ACTIVITY SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES AND PRACTICES THAT ARE SUFFICIENT TO RETAIN THE SEDIMENT GENERATED BY THE LAND-DISTURBING ACTIVITY WITHIN THE BOUNDARY OF THE TRACT DURING CONSTRUCTION UPON AND DEVELOPMENT OF THE TRACT, AND SHALL PLANT OR OTHERWISE PROVIDE PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION AFTER COMPLETION OF CONSTRUCTION OR DEVELOPMENT WITHIN A TIME PERIOD TO BE SPECIFIED BY RULE OF THE COMMISSION.
4. YOU MUST KEEP RAIN GAUGE ON SITE.
5. YOU MUST INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN A HALF INCH (DURING 24 HOUR PERIOD). YOU MUST TAKE IMMEDIATE CORRECTIVE ACTION FOR ANY DEVICE FAILURE.
6. YOU MUST INSPECT ALL OUTLETS WHERE STORMWATER RUNOFF LEAVES YOUR SITE AND EVALUATE THE EFFECT ON NEARBY STREAMS OR WETLANDS. CORRECTIVE ACTION MUST BE TAKEN IF SEDIMENT IS DEPOSITED OFF SITE OR INTO A STREAM OR WETLAND, OR CAUSES A VISIBLE INCREASE IN TURBIDITY OF ANY WATERBODY.
7. NO PAINT OR LIQUID WASTES IN STREAM OR STORM DRAINS. DEDICATED AREA FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STEAMS UNLESS NO REASONABLE ALTERNATIVE IS AVAILABLE. EARTHEN-MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STEAMS UNLESS NO REASONABLE ALTERNATIVE IS AVAILABLE. CONCRETE MATERIAL MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR BUFFERS.
8. YOU MUST KEEP RECORDS OF THESE INSPECTIONS AND ANY CORRECTIVE ACTIONS TAKEN.

EROSION CONTROL SELF INSPECTION

1. THE PURPOSE OF SELF INSPECTION IS TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED, INCLUDING THE INSTALLATION AND MAINTENANCE OF MEASURES, AND THE PROVISION OF GROUND COVER IN A TIMELY MANNER.
2. ALL OF THE EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING SEDIMENTATION CONTROL BASINS, SEDIMENTATION TRAPS, SEDIMENTATION PONDS, ROCK DAMS, TEMPORARY DIVERSIONS, TEMPORARY SLOPE DRAINS, ROCK CHECK DAMS, SEDIMENT FENCE OR BARRIERS, ALL FORMS OF INLET PROTECTION, STORM DRAINAGE FACILITIES, ENERGY DISSIPATORS, AND STABILIZATION METHODS OF OPEN CHANNELS MUST BE INSPECTED.
3. A "SELF-INSPECTION REPORT FOR LAND DISTURBING ACTIVITY AS REQUIRED BY NCGS 113A-54.1" MUST BE COMPLETED. AN ALTERNATIVE IS TO MAKE NOTATIONS ON THE COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN THAT IS KEPT ON THE PROJECT SITE.
4. THE SELF-INSPECTION REPORT FOR LAND-DISTURBING ACTIVITY IS TO BE COMPLETED AFTER EACH PHASE OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS COMPLETE. THESE PHASES MAY INCLUDE:
INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL MEASURES;
CLEARING AND GRUBBING OF EXISTING GROUND COVER;
COMPLETION OF ANY PHASE OF GRADING OF SLOPES OR FILLS;
INSTALLATION OF STORM DRAINAGE FACILITIES;
COMPLETION OF CONSTRUCTION OR DEVELOPMENT;
ESTABLISHMENT OF PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION.
5. THE RECORDS MUST BE MADE AVAILABLE TO THE EROSION CONTROL INSPECTOR AT THE SITE. ANY DOCUMENTATION OF INSPECTIONS THAT OCCUR ON A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN SHALL OCCUR ON A SINGLE COPY OF THE PLAN AND THAT PLAN SHALL BE MADE AVAILABLE ON THE SITE. ANY INSPECTION REPORTS SHALL ALSO BE MADE AVAILABLE ON THE SITE.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL HARNETT COUNTY, NCDEQ, AND NCDOT STANDARDS AND SPECIFICATIONS



1634 ASHLEY RIVER ROAD
CHARLESTON, SC 29407



1) Ground Stabilization*

Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exceptions
• Perimeter dikes, swales, ditches and slopes	7 days	None
• High Quality Water (HQW) Zones	7 days	None
• Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
• Slopes 3:1 or flatter	14 days	7-days for slopes greater than 50 feet in length
• All other areas with slopes flatter than 4:1	14 days	None (except for perimeters and HQW Zones)

* **Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable." (Section II.B(2)(b))

SHEET	DESCRIPTION
C-1	COVER
C-2	EXISTING CONDITIONS PLAN
C-3	SITE PLAN
C-4-5	EROSION CONTROL PLAN
C-6	FINAL GRADING AND SITE PLAN
C-7-11	DETAILS

AS THE OWNER OF RECORD, I HEREBY FORMALLY CONSENT TO THE PROPOSED DEVELOPMENT SHOWN ON THIS SITE PLAN AND ALL REGULATIONS AND REQUIREMENTS OF THE HARNETT COUNTY ORDINANCES

DATE _____ OWNER SIGNATURE _____

CALL 48 HOURS BEFORE YOU DIG



NORTH CAROLINA ONE-CALL CENTER
1-800-632-4949



3200 Gateway Centre Blvd., Suite 100
Morrisville, NC 27560
Phone: 919-755-5011
www.kleinfelder.com
NC License # F-1143



REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	NCDEQ COMMENTS PER EXPRESS REVIEW 10-13-17	MDD	MDI	10/16/2017
2	SOUTHERN CURRENT FENCE ADJUSTMENT	MDD	MDI	10/16/2017
3	HARNETT COUNTY CONDITIONAL USE PERMIT LANDSCAPING COMMENTS	MDI	CGO	10/18/2017
4	NCDEMLR COMMENTS	MDI	CGO	12/1/2017
5	SOUTHERN CURRENT FENCE AND DITCH ADJUSTMENT, ZONING COMMENTS	MDI	CGO	12/19/2017
6	ZONING COMMENTS	MDI	CGO	1/8/2018

SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

ORIGINAL DRAWING SIZE IS 22 x 34

COVER

FLOWERS SOLAR LLC
3188 BAILEYS XRDS ROAD
BENSON, NC 27504



CONSTRUCTION

PROJECT NO.	20181491
ISSUE DATE	01/08/2017
CURRENT REVISION	6
DESIGNED BY	MDD
DRAWN BY	MDD
CHECKED BY	MDI
APPROVED BY	MDI

C-1

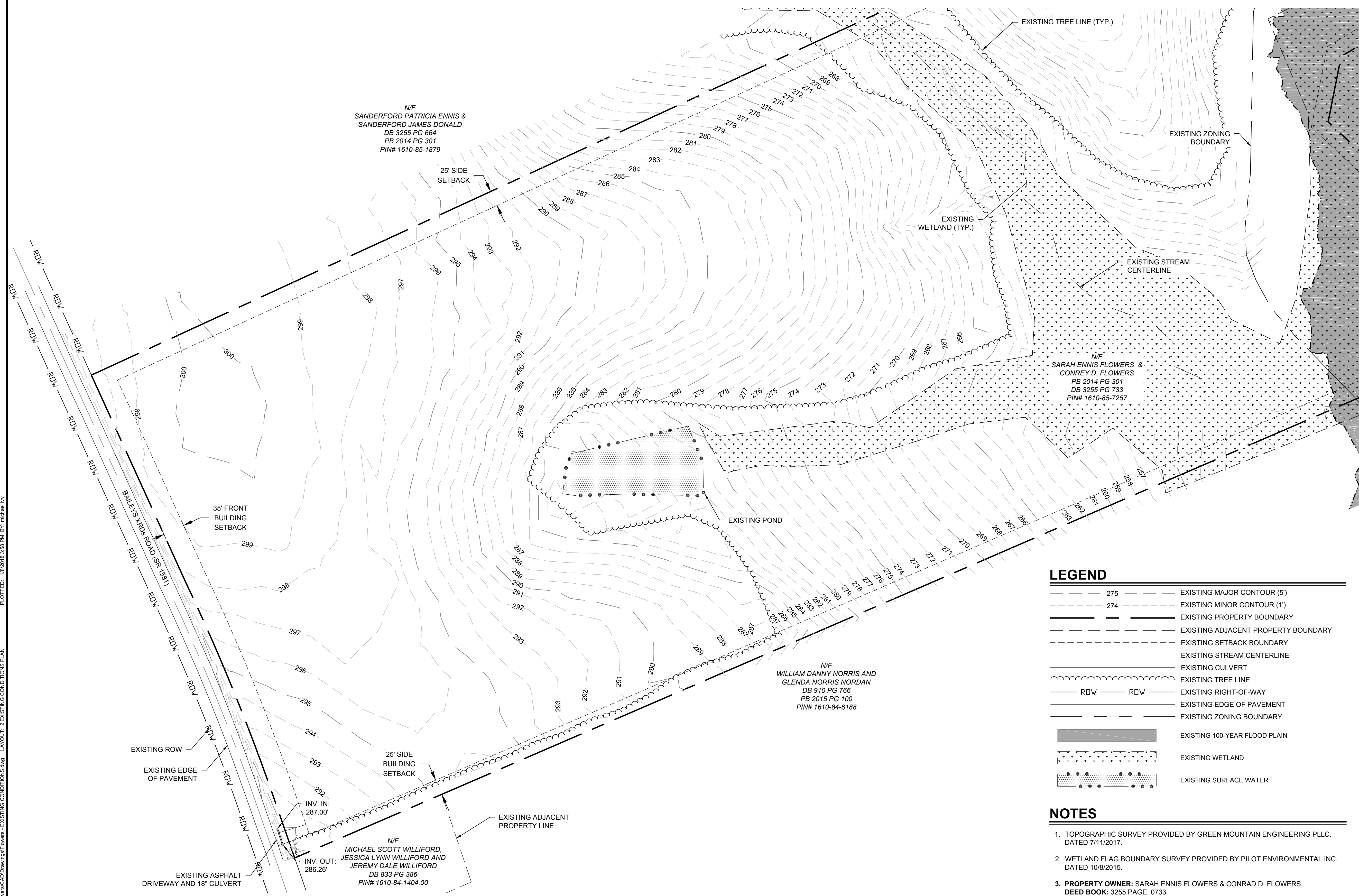
SHEET 1 of 11

CAD FILE: \\V:\Chil\Sub\Southern Current\Flowers\CADD\Drawings\Flowers - COVER.dwg LAYOUT: 1 COVER PLOTTED: 1/8/2018 3:57 PM BY: michael.ivy



REVISIONS

REV	DESCRIPTION	DSN	CHK	DATE
1	NCDEQ COMMENTS PER EXPRESS REVIEW 10-13-17	MDD	MDI	10/16/2017
2	SOUTHERN CURRENT FENCE ADJUSTMENT	MDD	MDI	10/16/2017
3	HARNETT COUNTY CONDITIONAL USE PERMIT LANDSCAPING COMMENTS	MDI	CGO	10/18/2017
4	NCDEMLR COMMENTS	MDI	CGO	12/1/2017
5	SOUTHERN CURRENT FENCE AND DITCH ADJUSTMENT, ZONING COMMENTS	MDI	CGO	12/19/2017
6	ZONING COMMENTS	MDI	CGO	1/8/2018

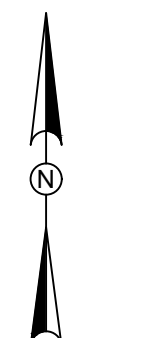


LEGEND

- 275 --- EXISTING MAJOR CONTOUR (5')
- 274 --- EXISTING MINOR CONTOUR (1')
- --- EXISTING PROPERTY BOUNDARY
- --- EXISTING ADJACENT PROPERTY BOUNDARY
- --- EXISTING SETBACK BOUNDARY
- --- EXISTING STREAM CENTERLINE
- --- EXISTING CULVERT
- --- EXISTING TREE LINE
- ROW --- EXISTING RIGHT-OF-WAY
- --- EXISTING EDGE OF PAVEMENT
- --- EXISTING ZONING BOUNDARY
- --- EXISTING 100-YEAR FLOOD PLAIN
- --- EXISTING WETLAND
- --- EXISTING SURFACE WATER

NOTES

- TOPOGRAPHIC SURVEY PROVIDED BY GREEN MOUNTAIN ENGINEERING PLLC. DATED 7/11/2017.
- WETLAND FLAG BOUNDARY SURVEY PROVIDED BY PILOT ENVIRONMENTAL INC. DATED 10/8/2015.
- PROPERTY OWNER:** SARAH ENNIS FLOWERS & CONRAD D. FLOWERS
DEED BOOK: 3255 PAGE: 0733
PIN: 1610-85-7257.000
- A PORTION OF THIS PROPERTY FALLS WITHIN THE 100 YEAR OR OTHER SPECIAL HAZARD FLOOD ZONES ACCORDING TO FEMA FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBERS 3720160000K & 37201620000K, EFFECTIVE DATE SEPTEMBER 5, 2007. NO PROPOSED IMPACT OR PORTION OF THE PROJECT AREA LIES WITHIN THIS 100 YEAR FLOOD ZONE AREA.
- NO PROPOSED STREAM OR WETLAND IMPACTS ARE NECESSARY FOR DEVELOPMENT OF THIS SOLAR FARM.



SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING



IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

0 80 160 240
SCALE: 1" = 80'
SCALE IN FEET
ORIGINAL DRAWING SIZE IS 22 x 34

EXISTING CONDITIONS PLAN

FLOWERS SOLAR LLC
3188 BAILEYS XRD'S ROAD
BENSON, NC 27504



SOUTHERN CURRENT
1634 ASHLEY RIVER ROAD
CHARLESTON, SC 29407

CONSTRUCTION

PROJECT NO.	20181491
ISSUE DATE	01/08/2017
CURRENT REVISION	6
DESIGNED BY	MDD
DRAWN BY	MDD
CHECKED BY	MDI
APPROVED BY	MDI

CAD FILE: W:\Client\Southern Current\FlowersSolar\Drawings\Flowers - EXISTING CONDITIONS PLAN LAYOUT - 2 EXISTING CONDITIONS PLAN PLOTTED: 1/8/2018 3:58 PM BY: michael.ivy

SITE DATA

PIN #: 07161-0009-602
 OWNER: SARAH ENNIS FLOWERS AND CONREY FLOWERS
 DEED BOOK/PAGE: 03255/0733
 ZONING: RA-30 AND CONSERVATION
 PARCEL ACREAGE: 40.75
 DISTURBED ACREAGE: 25
 CURRENT LAND USE: AGRICULTURAL / WOODED
 SITE ADDRESS: 3188 BAILEYS XRDS RD
 PROPOSED USE: SOLAR ENERGY SYSTEM
 APPROXIMATE AREA OF PROPOSED SOLAR FARM: ± 20 ACRES
 APPROXIMATE IMPERVIOUS SURFACE AREA: 599 SQ. FT.
 MIN. SETBACK REQUIREMENTS: PER HARNETT COUNTY, NC ORDINANCE:
 - FRONT: 30 FT FROM PROPERTY LINE TO SOLAR PANELS
 - SIDE: 25 FT FROM PROPERTY LINE TO SOLAR PANELS
 - REAR: 25 FT FROM PROPERTY LINE TO SOLAR PANELS
 ACTIVE SOLAR STRUCTURES SHALL MEET THE MINIMUM SETBACK FOR THE ZONING DISTRICT IN WHICH IT IS LOCATED OR BE SETBACK A MINIMUM OF 25 FEET FROM ALL PROPERTY LINES OR RIGHT (S)-OF-WAY, WHICH EVER IS GREAT.

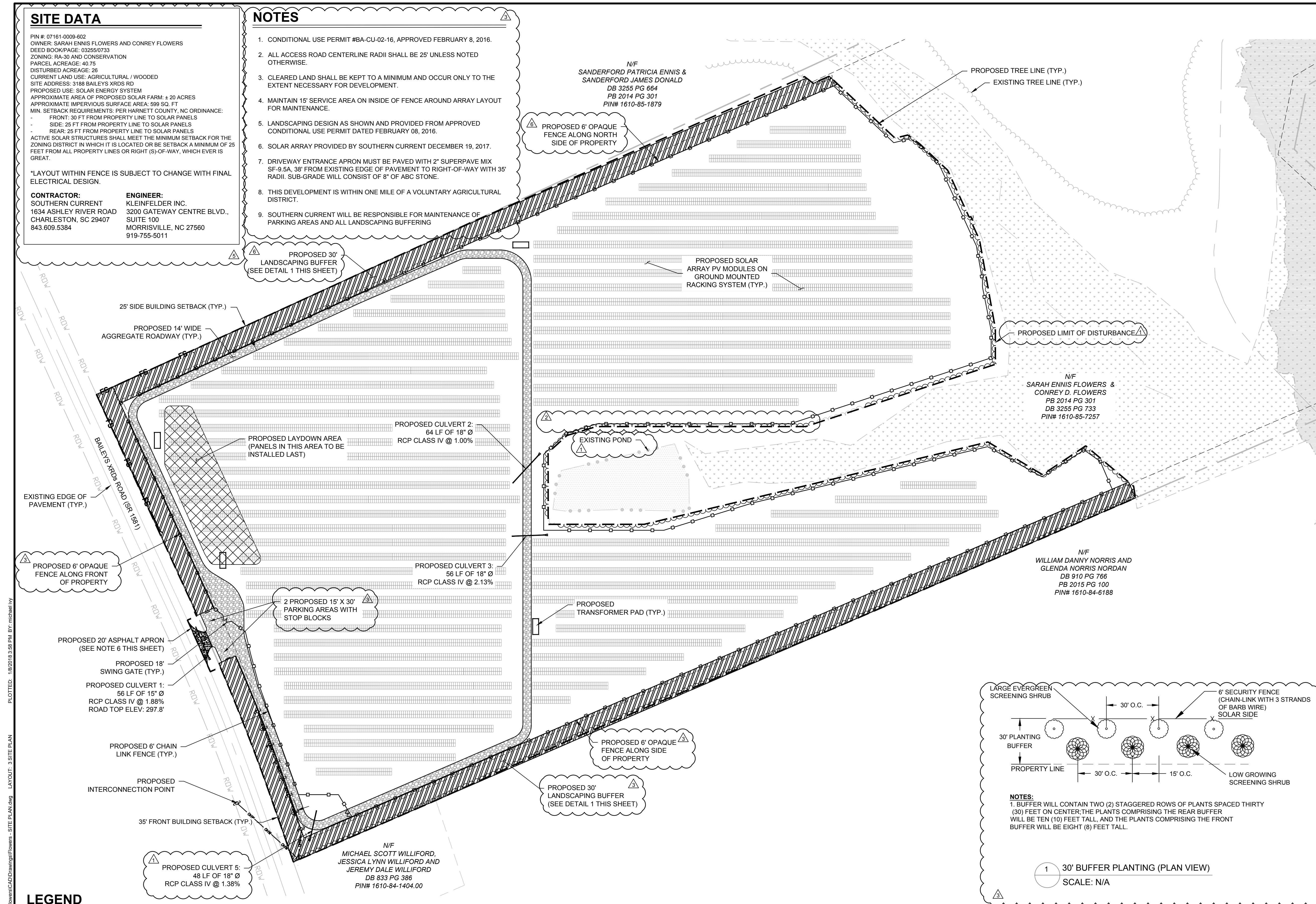
*LAYOUT WITHIN FENCE IS SUBJECT TO CHANGE WITH FINAL ELECTRICAL DESIGN.

CONTRACTOR:
 SOUTHERN CURRENT
 1634 ASHLEY RIVER ROAD
 CHARLESTON, SC 29407
 843.609.5384

ENGINEER:
 KLEINFELDER INC.
 3200 GATEWAY CENTRE BLVD.,
 SUITE 100
 MORRISVILLE, NC 27560
 919-755-5011

NOTES

- CONDITIONAL USE PERMIT #BA-CU-02-16, APPROVED FEBRUARY 8, 2016.
- ALL ACCESS ROAD CENTERLINE RADII SHALL BE 25' UNLESS NOTED OTHERWISE.
- CLEARED LAND SHALL BE KEPT TO A MINIMUM AND OCCUR ONLY TO THE EXTENT NECESSARY FOR DEVELOPMENT.
- MAINTAIN 15' SERVICE AREA ON INSIDE OF FENCE AROUND ARRAY LAYOUT FOR MAINTENANCE.
- LANDSCAPING DESIGN AS SHOWN AND PROVIDED FROM APPROVED CONDITIONAL USE PERMIT DATED FEBRUARY 08, 2016.
- SOLAR ARRAY PROVIDED BY SOUTHERN CURRENT DECEMBER 19, 2017.
- DRIVEWAY ENTRANCE APRON MUST BE PAVED WITH 2" SUPERPAVE MIX SF-9.5A, 38' FROM EXISTING EDGE OF PAVEMENT TO RIGHT-OF-WAY WITH 35' RADII. SUB-GRADE WILL CONSIST OF 8" OF ABC STONE.
- THIS DEVELOPMENT IS WITHIN ONE MILE OF A VOLUNTARY AGRICULTURAL DISTRICT.
- SOUTHERN CURRENT WILL BE RESPONSIBLE FOR MAINTENANCE OF PARKING AREAS AND ALL LANDSCAPING BUFFERING



KLEINFELDER
 Bright People. Right Solutions.

3200 Gateway Centre Blvd., Suite 100
 Morrisville, NC 27560
 Phone: 919-755-5011
 www.kleinfelder.com
 NC License # F-1143

Professional Engineer Seal
 MICHAEL D. IVY
 042627

REVISIONS

REV	DESCRIPTION	DSN	CHK	DATE
1	NCDEQ COMMENTS PER EXPRESS REVIEW 10-13-17	MDD	MDI	10/16/2017
2	SOUTHERN CURRENT FENCE ADJUSTMENT	MDD	MDI	10/16/2017
3	HARNETT COUNTY CONDITIONAL USE PERMIT LANDSCAPING COMMENTS	MDI	CGO	10/18/2017
4	NCDEMLR COMMENTS	MDI	CGO	12/1/2017
5	SOUTHERN CURRENT FENCE AND DITCH ADJUSTMENT, ZONING COMMENTS	MDI	CGO	12/19/2017
6	ZONING COMMENTS	MDI	CGO	1/8/2018

SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

0 80 160 240
 SCALE: 1" = 80'
 SCALE IN FEET

ORIGINAL DRAWING SIZE IS 22 x 34

SITE PLAN

FLOWERS SOLAR LLC
 3188 BAILEYS XRDS ROAD
 BENSON, NC 27504

SOUTHERN CURRENT

SOUTHERN CURRENT
 1634 ASHLEY RIVER ROAD
 CHARLESTON, SC 29407

CONSTRUCTION

PROJECT NO.	20181491
ISSUE DATE	01/08/2017
CURRENT REVISION	6
DESIGNED BY	MDD
DRAWN BY	MDD
CHECKED BY	MDI
APPROVED BY	MDI

SHEET 3 of 11

LEGEND

35	EXISTING MAJOR CONTOUR (5')	OHW	OHW	EXISTING TREE LINE	PROPOSED TREE LINE
36	EXISTING MINOR CONTOUR (1')	W	W	EXISTING OVERHEAD ELECTRIC LINE	EXISTING UTILITY POLE
	PROPOSED LEASE LINE			EXISTING WATER LINE	PROPOSED LANDSCAPE BUFFER
	EXISTING ADJACENT PROPERTY BOUNDARY			EXISTING RIGHT-OF-WAY	PROPOSED ASPHALT APRON
	EXISTING SETBACK LINE			EXISTING ROAD CULVERT	PROPOSED UNDERGROUND ELECTRIC LINE
	EXISTING EDGE OF PAVEMENT			EXISTING WETLAND	PROPOSED PERMANENT FENCE
	EXISTING EDGE OF UNPAVED ROAD				PROPOSED UNDERGROUND ELECTRIC LINE

CAD FILE: W:\Ch\Sub\Southern Current\Flowers\CAD\Drawings\Flowers - SITE PLAN.dwg LAYOUT: 3 SITE PLAN.dwg PLOTTED: 1/8/2018 3:58 PM BY: michael.ivy

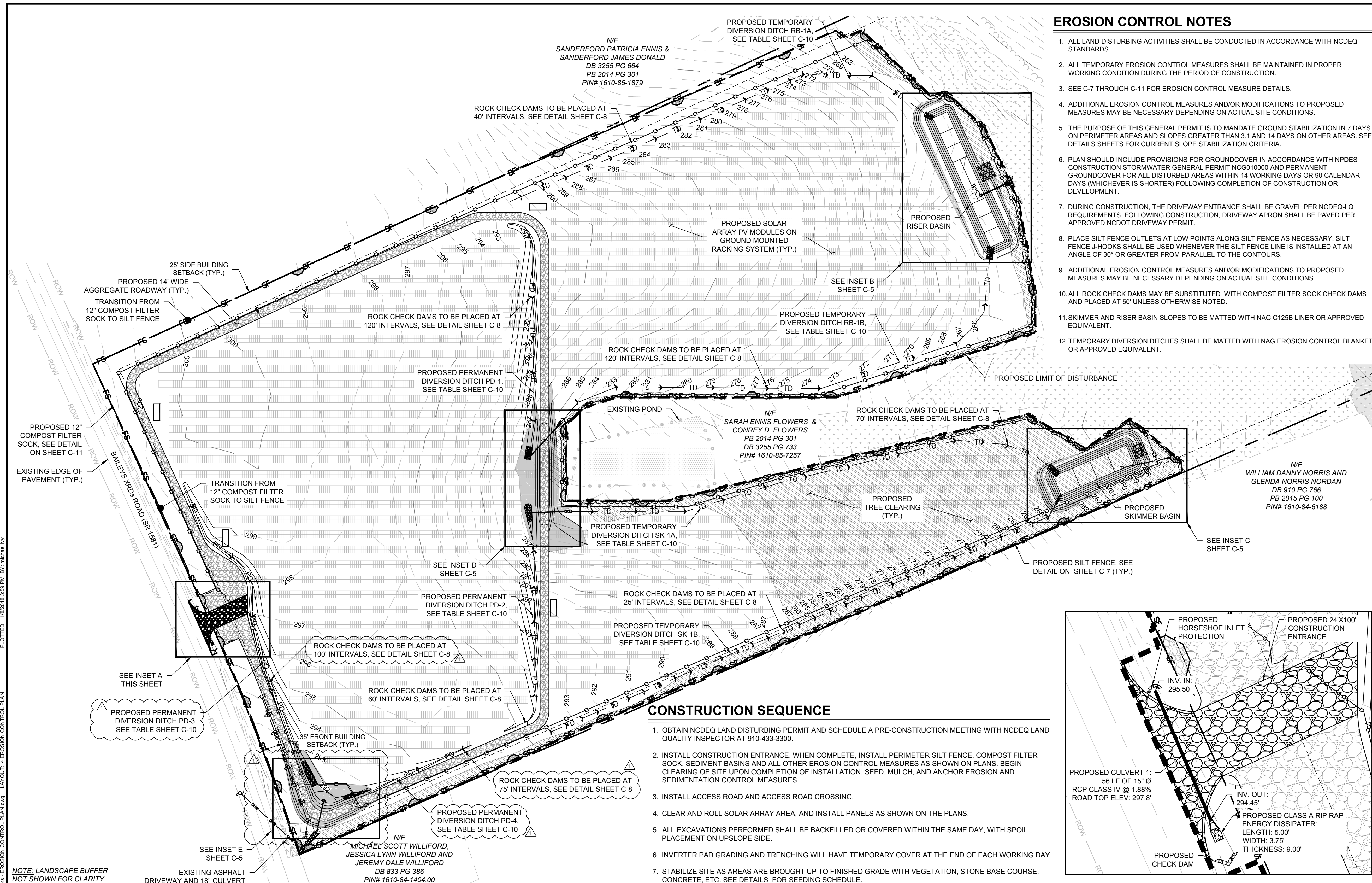


REVISIONS

REV	DESCRIPTION	DSN	CHK	DATE
1	NCDEQ COMMENTS PER EXPRESS REVIEW 10-13-17	MDD	MDI	10/16/2017
2	SOUTHERN CURRENT FENCE ADJUSTMENT	MDD	MDI	10/16/2017
3	HARNETT COUNTY CONDITIONAL USE PERMIT LANDSCAPING COMMENTS	MDI	CGO	10/18/2017
4	NCDEMLR COMMENTS	MDI	CGO	12/1/2017
5	SOUTHERN CURRENT FENCE AND DITCH ADJUSTMENT, ZONING COMMENTS	MDI	CGO	12/19/2017
6	ZONING COMMENTS	MDI	CGO	1/8/2018

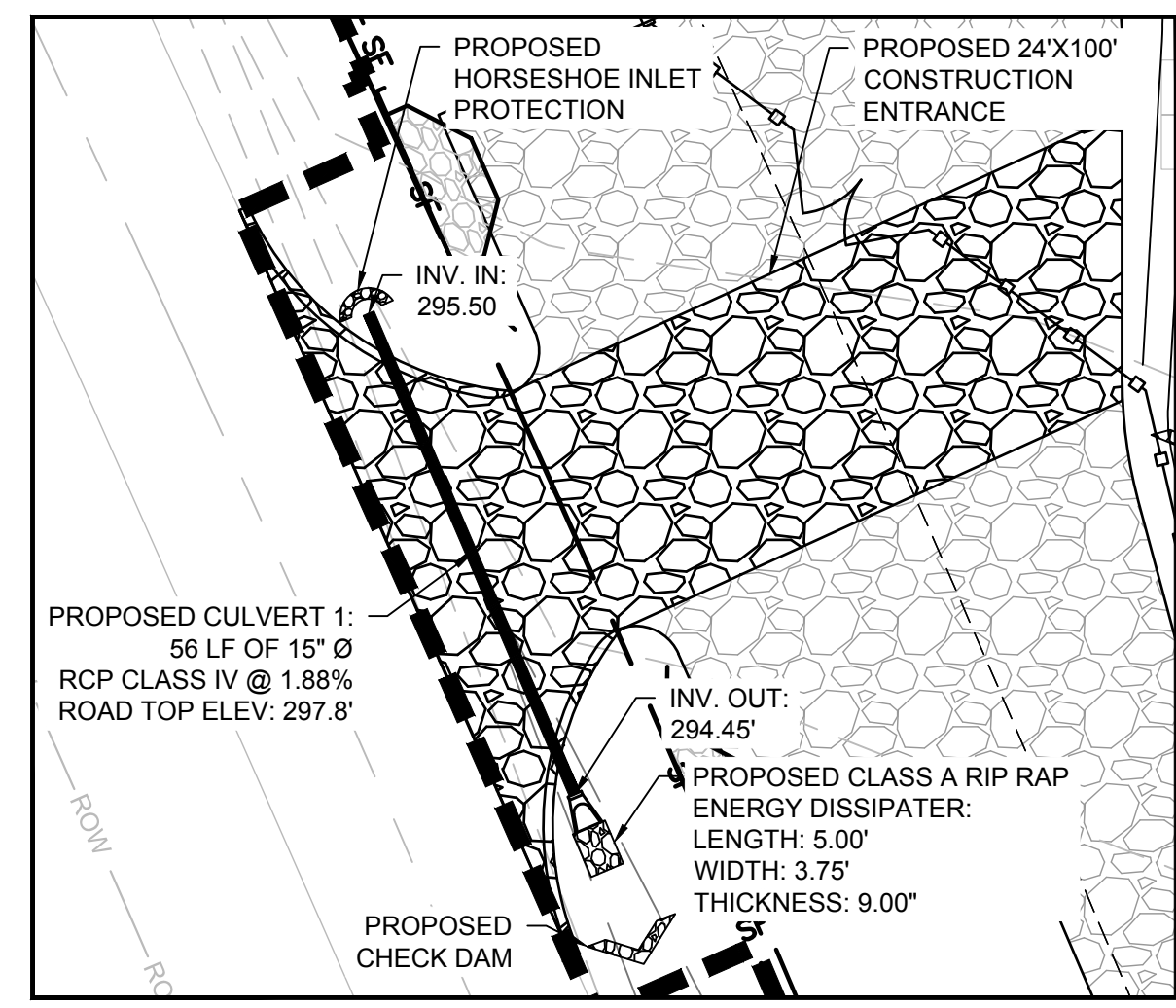
EROSION CONTROL NOTES

- ALL LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH NCDEQ STANDARDS.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED IN PROPER WORKING CONDITION DURING THE PERIOD OF CONSTRUCTION.
- SEE C-7 THROUGH C-11 FOR EROSION CONTROL MEASURE DETAILS.
- ADDITIONAL EROSION CONTROL MEASURES AND/OR MODIFICATIONS TO PROPOSED MEASURES MAY BE NECESSARY DEPENDING ON ACTUAL SITE CONDITIONS.
- THE PURPOSE OF THIS GENERAL PERMIT IS TO MANDATE GROUND STABILIZATION IN 7 DAYS ON PERIMETER AREAS AND SLOPES GREATER THAN 3:1 AND 14 DAYS ON OTHER AREAS. SEE DETAILS SHEETS FOR CURRENT SLOPE STABILIZATION CRITERIA.
- PLAN SHOULD INCLUDE PROVISIONS FOR GROUND COVER IN ACCORDANCE WITH NPDES CONSTRUCTION STORMWATER GENERAL PERMIT NCG010000 AND PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 14 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- DURING CONSTRUCTION, THE DRIVEWAY ENTRANCE SHALL BE GRAVEL PER NCDEQ-LQ REQUIREMENTS. FOLLOWING CONSTRUCTION, DRIVEWAY APRON SHALL BE PAVED PER APPROVED NCDOT DRIVEWAY PERMIT.
- PLACE SILT FENCE OUTLETS AT LOW POINTS ALONG SILT FENCE AS NECESSARY. SILT FENCE J-HOOKS SHALL BE USED WHENEVER THE SILT FENCE LINE IS INSTALLED AT AN ANGLE OF 30° OR GREATER FROM PARALLEL TO THE CONTOURS.
- ADDITIONAL EROSION CONTROL MEASURES AND/OR MODIFICATIONS TO PROPOSED MEASURES MAY BE NECESSARY DEPENDING ON ACTUAL SITE CONDITIONS.
- ALL ROCK CHECK DAMS MAY BE SUBSTITUTED WITH COMPOST FILTER SOCK CHECK DAMS AND PLACED AT 50' UNLESS OTHERWISE NOTED.
- SKIMMER AND RISER BASIN SLOPES TO BE MATTED WITH NAG C125B LINER OR APPROVED EQUIVALENT.
- TEMPORARY DIVERSION DITCHES SHALL BE MATTED WITH NAG EROSION CONTROL BLANKET OR APPROVED EQUIVALENT.



CONSTRUCTION SEQUENCE

- OBTAIN NCDEQ LAND DISTURBING PERMIT AND SCHEDULE A PRE-CONSTRUCTION MEETING WITH NCDEQ LAND QUALITY INSPECTOR AT 910-433-3300.
- INSTALL CONSTRUCTION ENTRANCE. WHEN COMPLETE, INSTALL PERIMETER SILT FENCE, COMPOST FILTER SOCK, SEDIMENT BASIN AND ALL OTHER EROSION CONTROL MEASURES AS SHOWN ON PLANS. BEGIN CLEARING OF SITE UPON COMPLETION OF INSTALLATION, SEED, MULCH, AND ANCHOR EROSION AND SEDIMENTATION CONTROL MEASURES.
- INSTALL ACCESS ROAD AND ACCESS ROAD CROSSING.
- CLEAR AND ROLL SOLAR ARRAY AREA, AND INSTALL PANELS AS SHOWN ON THE PLANS.
- ALL EXCAVATIONS PERFORMED SHALL BE BACKFILLED OR COVERED WITHIN THE SAME DAY, WITH SPOIL PLACEMENT ON UPSLOPE SIDE.
- INVERTER PAD GRADING AND TRENCHING WILL HAVE TEMPORARY COVER AT THE END OF EACH WORKING DAY.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE WITH VEGETATION, STONE BASE COURSE, CONCRETE, ETC. SEE DETAILS FOR SEEDING SCHEDULE.
- AFTER ESTABLISHMENT OF PERMANENT VEGETATION AND FINAL INSPECTION APPROVAL FROM NCDEQ, REMOVE SILT FENCE, COMPOST FILTER SOCK, CONSTRUCTION ENTRANCE AND ANY REMAINING EROSION CONTROL MEASURES.
- AFTER CONSTRUCTION ENTRANCE HAS BEEN REMOVED, STABILIZE, AND INSTALL PERMANENT DRIVEWAY. AT THIS TIME, PAVE 18' DRIVEWAY APRON WITH 35' RADII AS REQUIRED FROM NCDOT DRIVEWAY PERMIT. DRIVEWAY APRON TO BE PAVED WITH 2" SUPERPAVE MIX SF-9.5A WITH 8" OF ABC STONE SUB-GRADE.



SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

SCALE: 1" = 80'

ORIGINAL DRAWING SIZE IS 22 x 34

EROSION CONTROL PLAN

FLOWERS SOLAR LLC
3188 BAILEYS XRDS ROAD
BENSON, NC 27504



SOUTHERN CURRENT
1634 ASHLEY RIVER ROAD
CHARLESTON, SC 29407

CONSTRUCTION

PROJECT NO.	20181491
ISSUE DATE	01/08/2017
CURRENT REVISION	6
DESIGNED BY	MDD
DRAWN BY	MDD
CHECKED BY	MDI
APPROVED BY	MDI

NOTE: LANDSCAPE BUFFER NOT SHOWN FOR CLARITY

LEGEND

35	EXISTING MAJOR CONTOUR (5')	EXISTING TREE LINE	PROPOSED TREE CLEARING AREA	SF	PROPOSED SILT FENCE	TD	PROPOSED TEMPORARY DIVERSION DITCH
36	EXISTING MINOR CONTOUR (1')	EXISTING OVERHEAD ELECTRIC LINE	EXISTING UTILITY POLE	FS	PROPOSED FILTER SOCK	PD	PROPOSED PERMANENT DIVERSION DITCH
---	PROPOSED LEASE LINE	EXISTING WATER LINE	PROPOSED ACCESS ROAD	[Pattern]	PROPOSED ROCK CONSTRUCTION ENTRANCE	[Symbol]	PROPOSED CHECK DAM
---	EXISTING ADJACENT PROPERTY BOUNDARY	EXISTING RIGHT-OF-WAY	PROPOSED PERMANENT FENCE	[Pattern]	PROPOSED SKIMMER	[Symbol]	PROPOSED LIMIT OF DISTURBANCE
---	EXISTING SETBACK LINE	EXISTING ROAD CULVERT	PROPOSED UNDERGROUND ELECTRIC LINE	[Symbol]	PROPOSED RISER STRUCTURE	[Symbol]	
---	EXISTING EDGE OF PAVEMENT	EXISTING WETLAND					
---	EXISTING EDGE OF UNPAVED ROAD						

CAD FILE: W:\Chil\Sub\Southern Current\Flowers\CAD\Drawings\Flowers - EROSION CONTROL PLAN.dwg LAYOUT: 4 EROSION CONTROL PLAN.dwg PLOTTED: 1/8/2018 3:59 PM BY: michael.ivy



REVISIONS

REV	DESCRIPTION	DSN	CHK	DATE
1	NCDEQ COMMENTS PER EXPRESS REVIEW 10-13-17	MDD	MDI	10/16/2017
2	SOUTHERN CURRENT FENCE ADJUSTMENT	MDD	MDI	10/16/2017
3	HARNETT COUNTY CONDITIONAL USE PERMIT LANDSCAPING COMMENTS	MDI	CGO	10/18/2017
4	NCDEMLR COMMENTS	MDI	CGO	12/1/2017
5	SOUTHERN CURRENT FENCE AND DITCH ADJUSTMENT, ZONING COMMENTS	MDI	CGO	12/19/2017
6	ZONING COMMENTS	MDI	CGO	1/8/2018

SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

ORIGINAL DRAWING SIZE IS 22 x 34

EROSION CONTROL PLAN

FLOWERS SOLAR LLC
3188 BAILEYS XRDS ROAD
BENSON, NC 27504

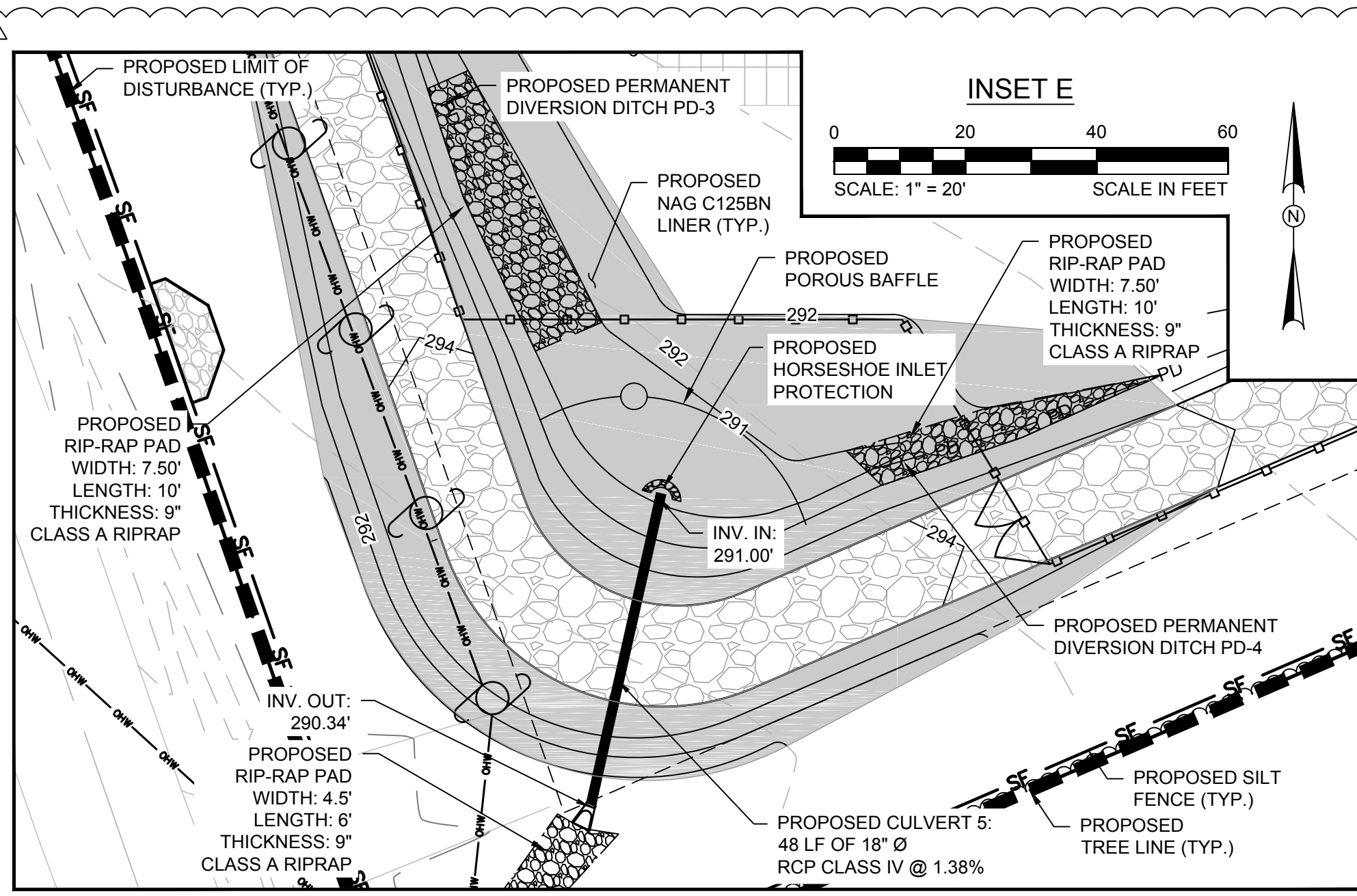
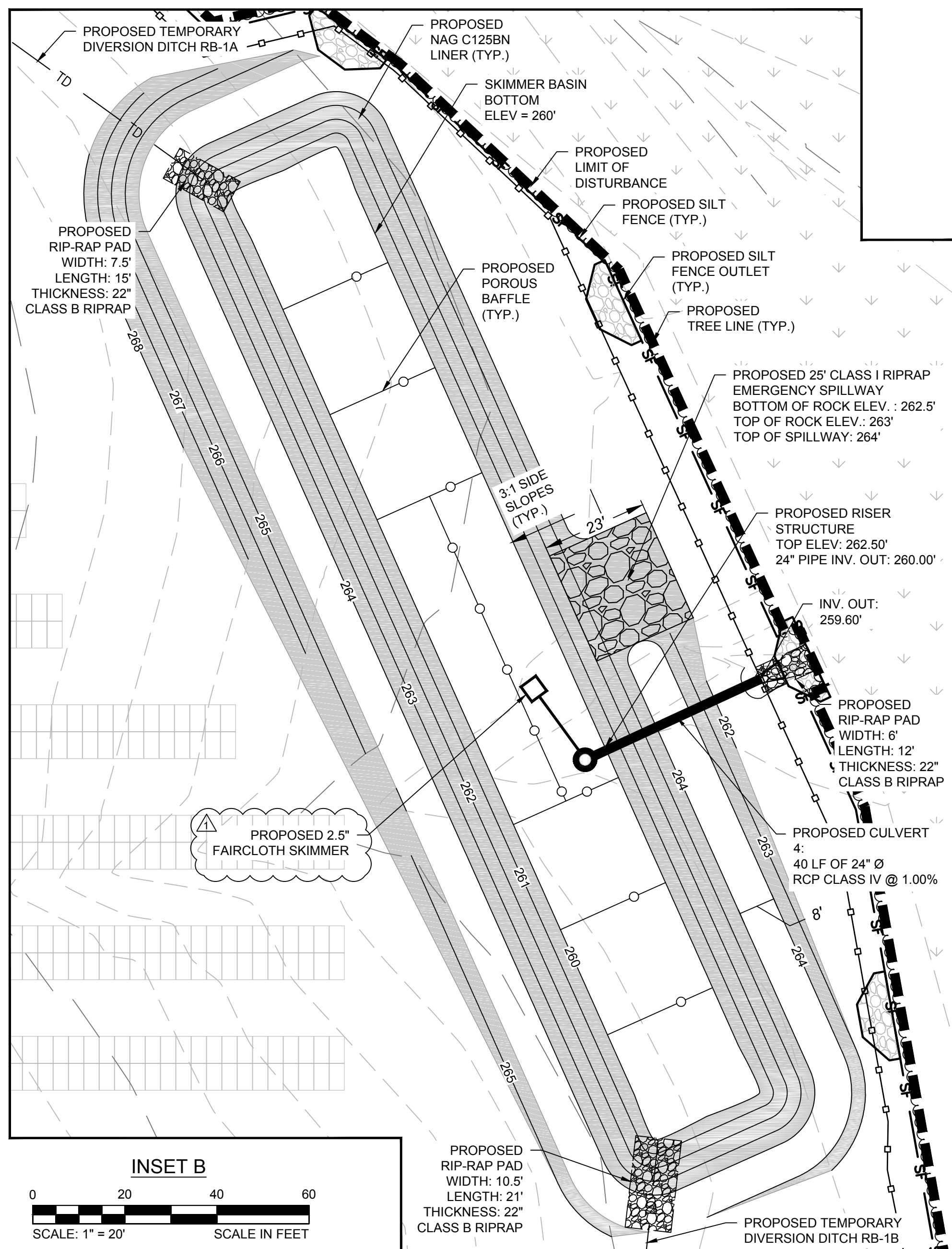
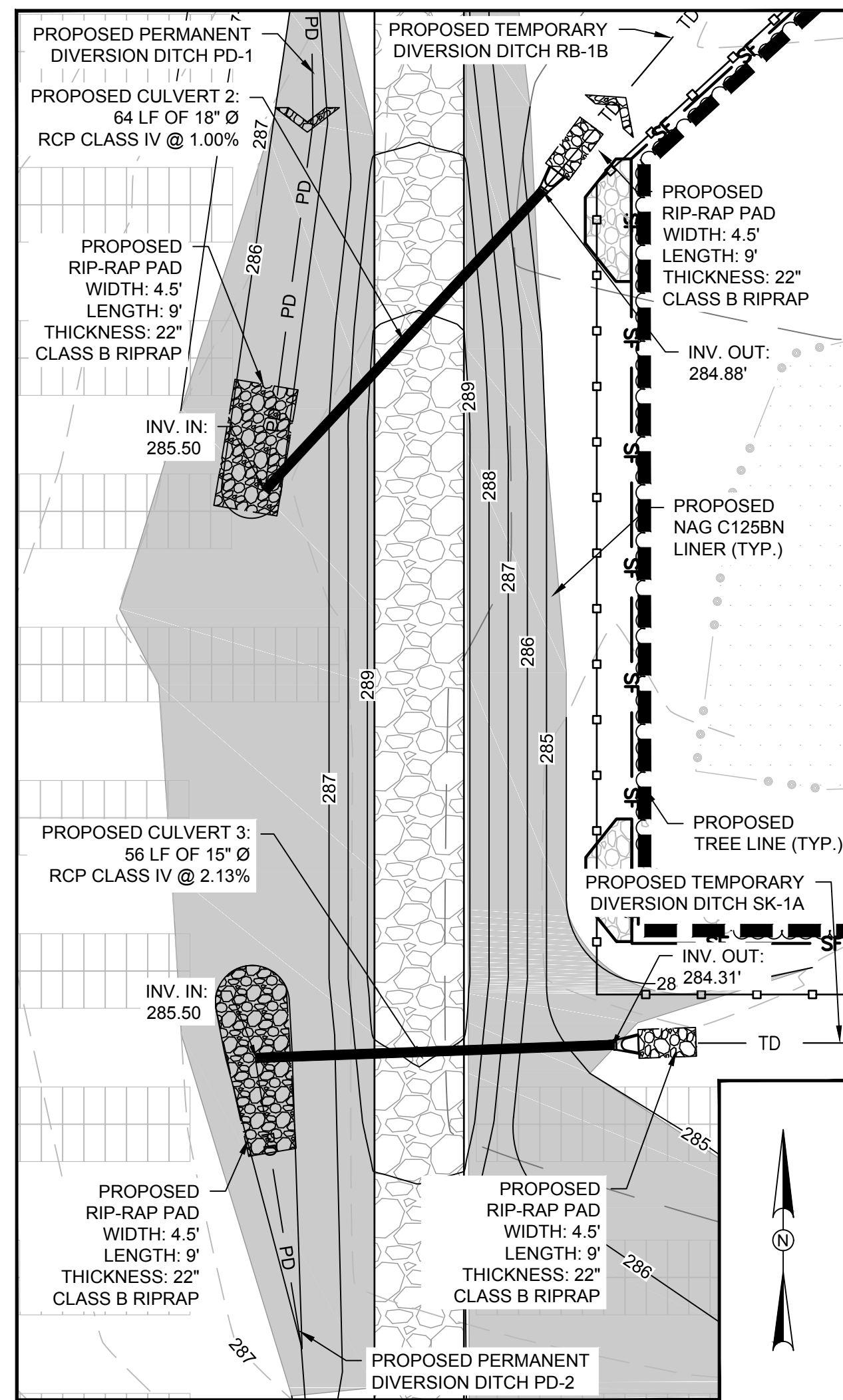
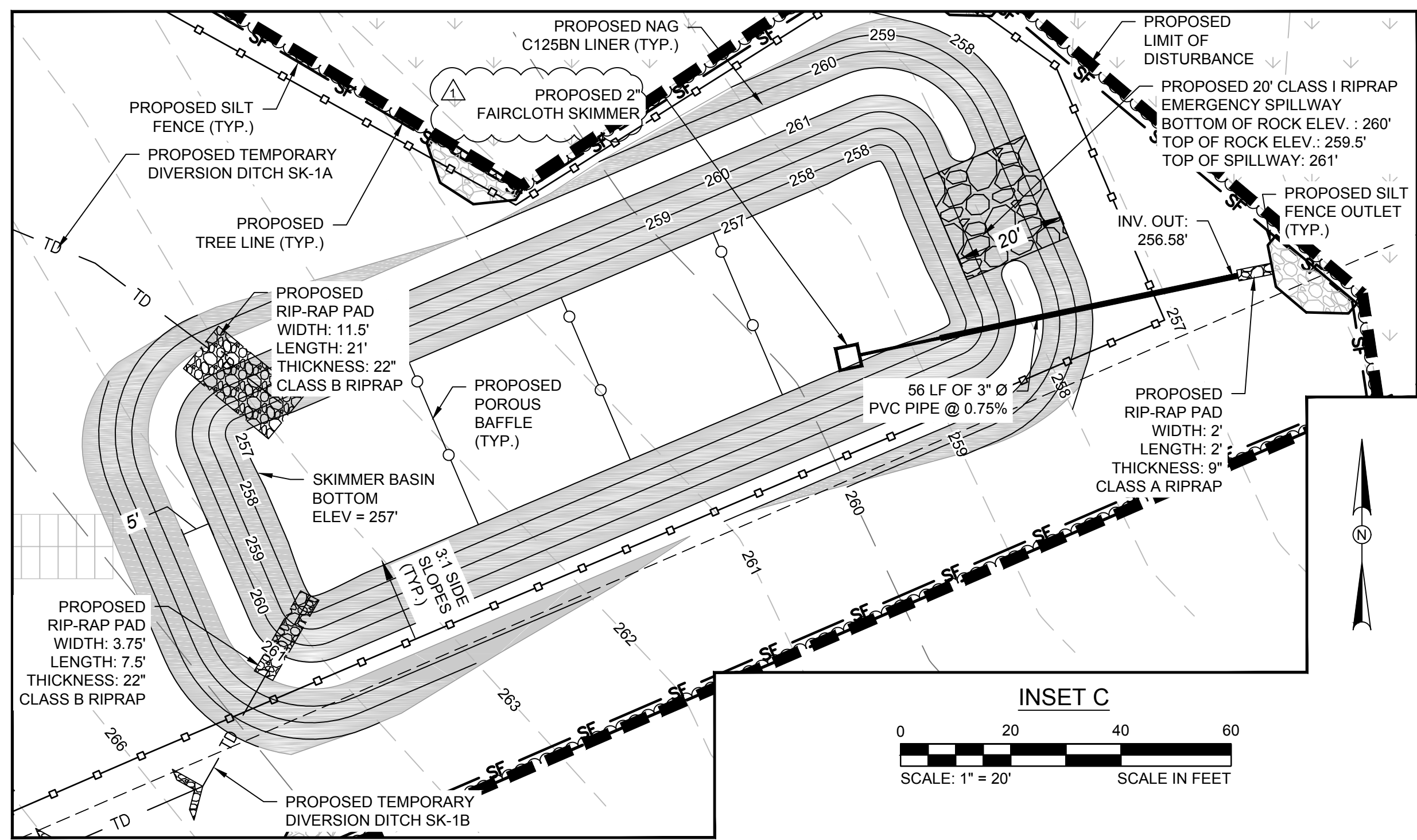


SOUTHERN CURRENT
1634 ASHLEY RIVER ROAD
CHARLESTON, SC 29407

CONSTRUCTION

PROJECT NO.	20181491
ISSUE DATE	01/08/2017
CURRENT REVISION	6
DESIGNED BY	MDD
DRAWN BY	MDD
CHECKED BY	MDI
APPROVED BY	MDI

C-5



LEGEND

- 275 — EXISTING MAJOR CONTOUR (5')
- 276 — EXISTING MINOR CONTOUR (1')
- 275 — PROPOSED MAJOR CONTOUR (5')
- 276 — PROPOSED MINOR CONTOUR (1')
- — — EXISTING TREE LINE
- — — PROPOSED TREE LINE
- — — EXISTING WETLAND
- — — PROPOSED ACCESS ROAD
- — — PROPOSED PERMANENT FENCE
- — — PROPOSED UNDERGROUND ELECTRIC LINE
- — — PROPOSED SILT FENCE
- — — PROPOSED ROCK CONSTRUCTION ENTRANCE
- — — PROPOSED SKIMMER
- — — PROPOSED RISER STRUCTURE
- — — PROPOSED CHECK DAM
- — — PROPOSED SILT FENCE OUTLET
- — — PROPOSED TEMPORARY DIVERSION DITCH
- — — PROPOSED PERMANENT DIVERSION DITCH
- — — PROPOSED LIMIT OF DISTURBANCE

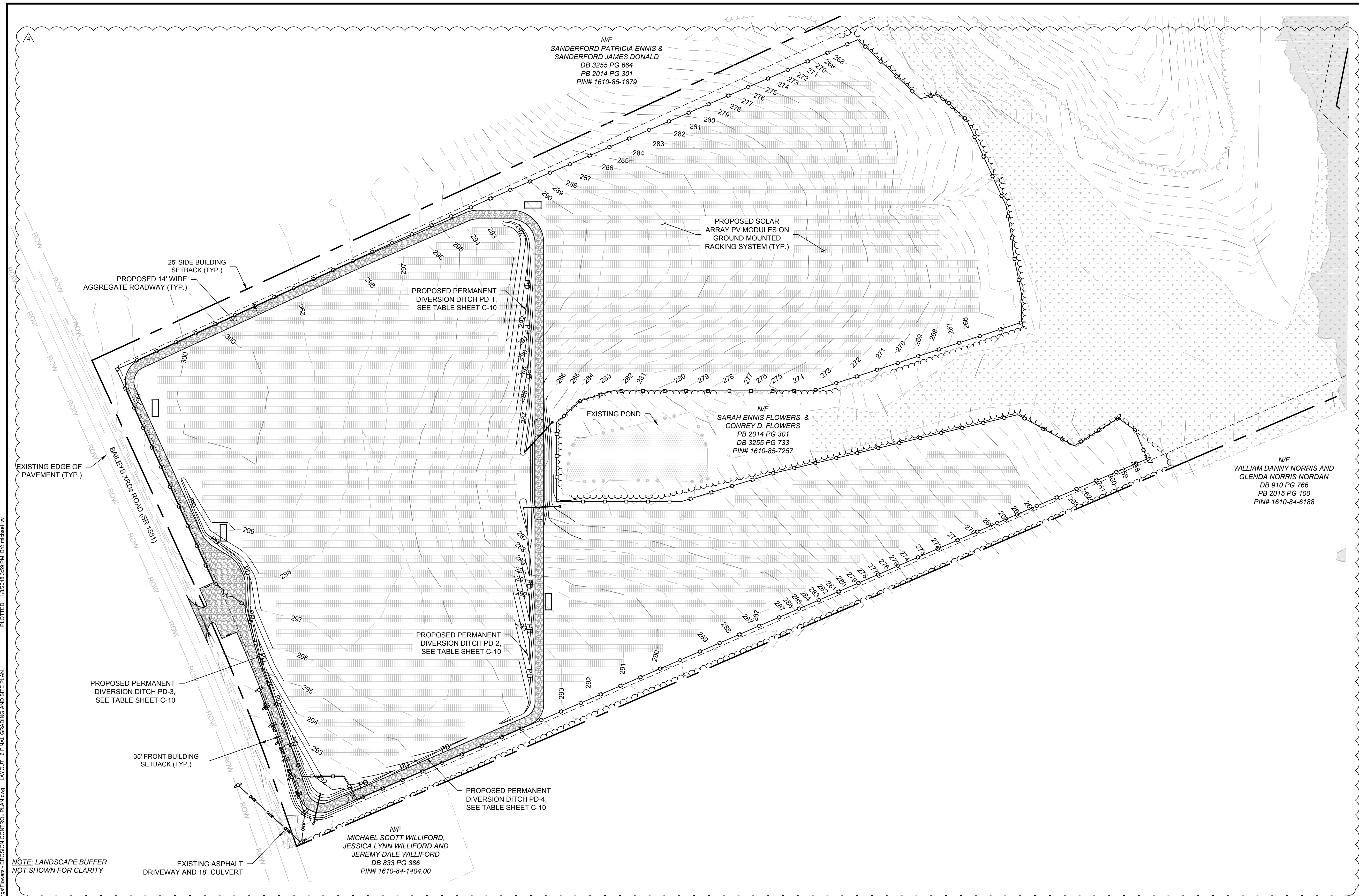
NOTE: LANDSCAPE BUFFER NOT SHOWN FOR CLARITY

CAD FILE: W:\Chk\Southern Current\Flowers\CADD\Drawings\Flowers - EROSION CONTROL PLAN.dwg LAYOUT: 5 EROSION CONTROL PLAN.dwg PLOTTED: 1/8/2018 3:59 PM BY: michael.ivy



REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	NCDEQ COMMENTS PER EXPRESS REVIEW 10-13-17	MDD	MDI	10/16/2017
2	SOUTHERN CURRENT FENCE ADJUSTMENT	MDD	MDI	10/16/2017
3	HARNETT COUNTY CONDITIONAL USE PERMIT LANDSCAPING COMMENTS	MDI	CGO	10/18/2017
4	NCDEMLR COMMENTS	MDI	CGO	12/1/2017
5	SOUTHERN CURRENT FENCE AND DITCH ADJUSTMENT, ZONING COMMENTS	MDI	CGO	12/19/2017
6	ZONING COMMENTS	MDI	CGO	1/8/2018



CAD FILE: W:\Client\Southern Current\Flowers\CAD\Drawings\Flowers - EROSION CONTROL PLAN.dwg LAYOUT: 6 FINAL GRADING AND SITE PLAN PLOTTED: 1/8/2018 3:59 PM BY: michael.ivy

NOTE: LANDSCAPE BUFFER NOT SHOWN FOR CLARITY

SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

SCALE: 1" = 80'

SCALE IN FEET

ORIGINAL DRAWING SIZE IS 22 x 34

FINAL GRADING AND SITE PLAN

FLOWERS SOLAR LLC
3188 BAILEYS XRDS ROAD
BENSON, NC 27504



SOUTHERN CURRENT
1634 ASHLEY RIVER ROAD
CHARLESTON, SC 29407

LEGEND

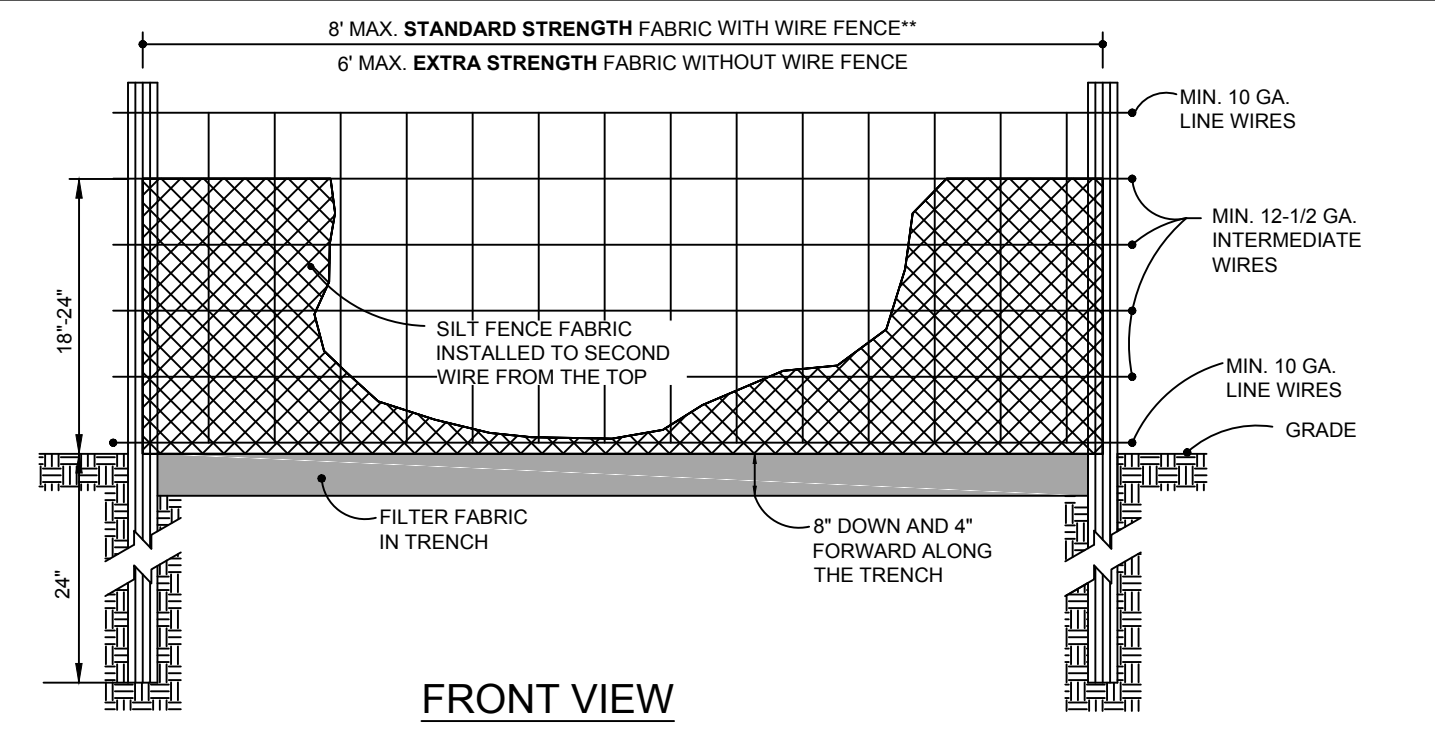
— 35 —	EXISTING MAJOR CONTOUR (5')		EXISTING TREE LINE		EXISTING UTILITY POLE
— 36 —	EXISTING MINOR CONTOUR (1')		EXISTING OVERHEAD ELECTRIC LINE		PROPOSED ACCESS ROAD
— — —	PROPOSED LEASE LINE		EXISTING WATER LINE		PROPOSED PERMANENT FENCE
- - - - -	EXISTING ADJACENT PROPERTY BOUNDARY		EXISTING RIGHT-OF-WAY		PROPOSED UNDERGROUND ELECTRIC LINE
- - - - -	EXISTING SETBACK LINE		EXISTING ROAD CULVERT		PROPOSED PERMANENT DIVERSION DITCH
- - - - -	EXISTING EDGE OF PAVEMENT		EXISTING WETLAND		
- - - - -	EXISTING EDGE OF UNPAVED ROAD				

CONSTRUCTION

PROJECT NO.	20181491
ISSUE DATE	01/08/2017
CURRENT REVISION	6
DESIGNED BY	MDD
DRAWN BY	MDD
CHECKED BY	MDI
APPROVED BY	MDI

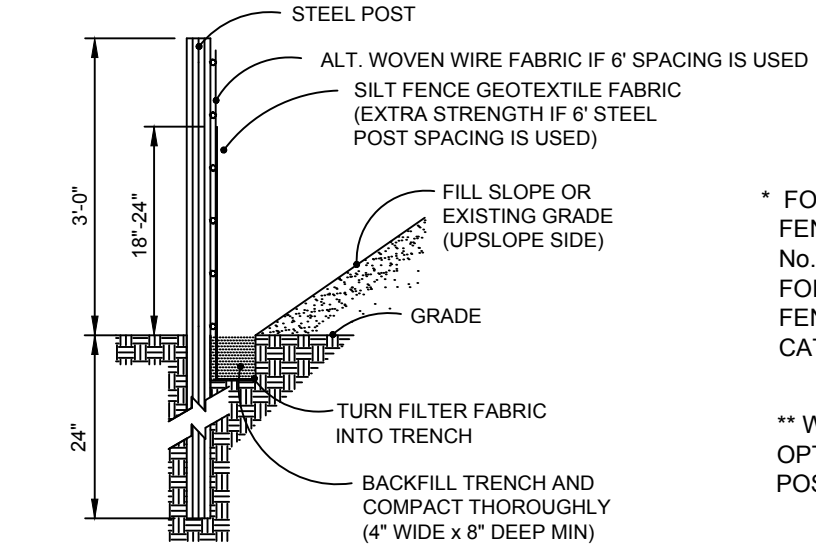
C-6

SHEET 6 of 11



MAINTENANCE:
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE THE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

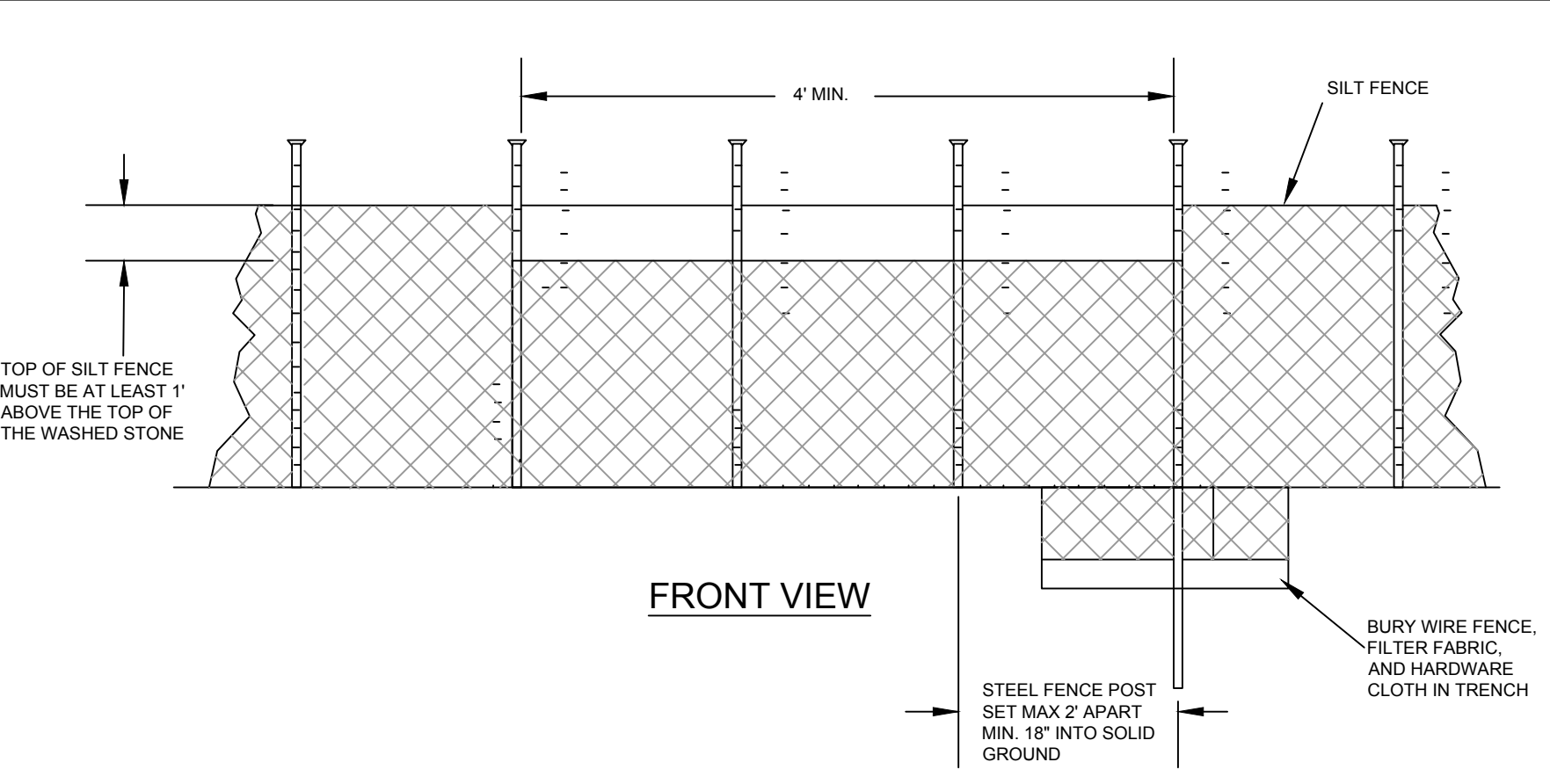
- NOTES:**
- USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.
 - END OF SILT FENCE NEEDS TO BE TURNED UPHILL.
 - INSPECT SILT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
 - REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
 - REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



* FOR REPAIR OF SILT FENCE FAILURES, USE No. 57 WASHED STONE. FOR ANCHOR WHEN SILT FENCE IS PROTECTING CATCH BASIN.

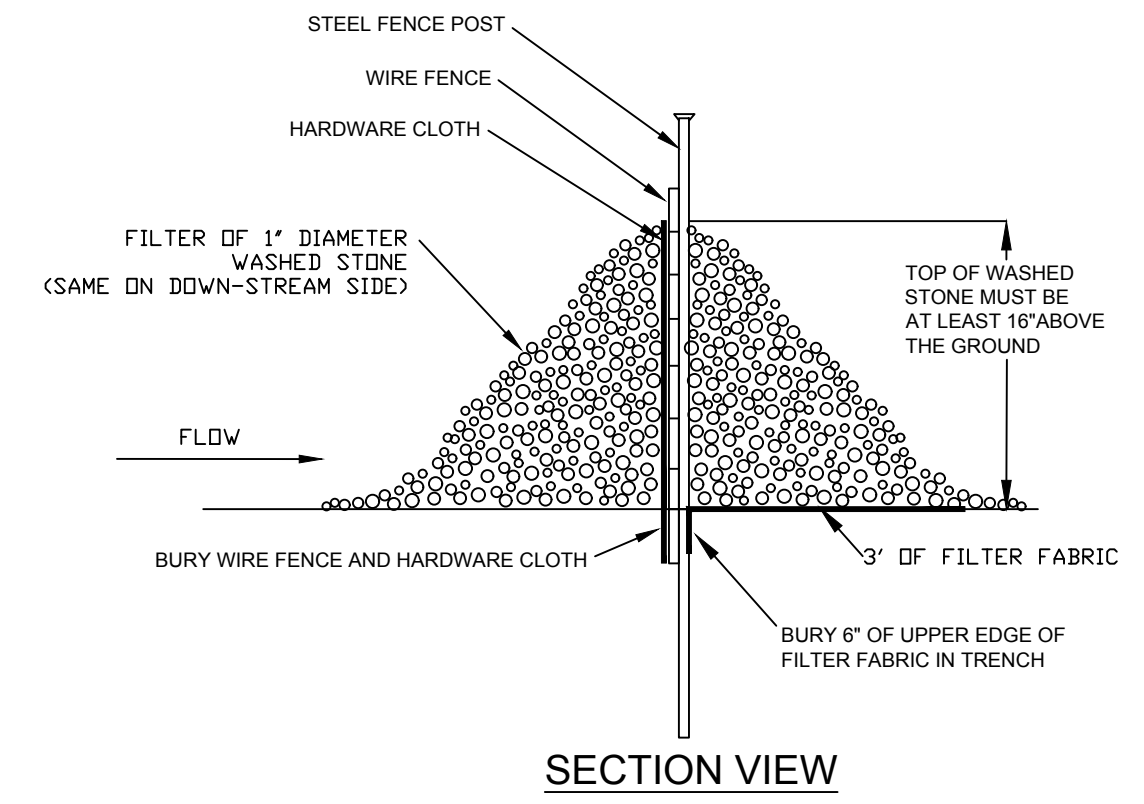
** WIRE FENCE OPTIONAL IF 6' STEEL POST SPACING IS USED

1 TEMPORARY SILT FENCE
NO SCALE



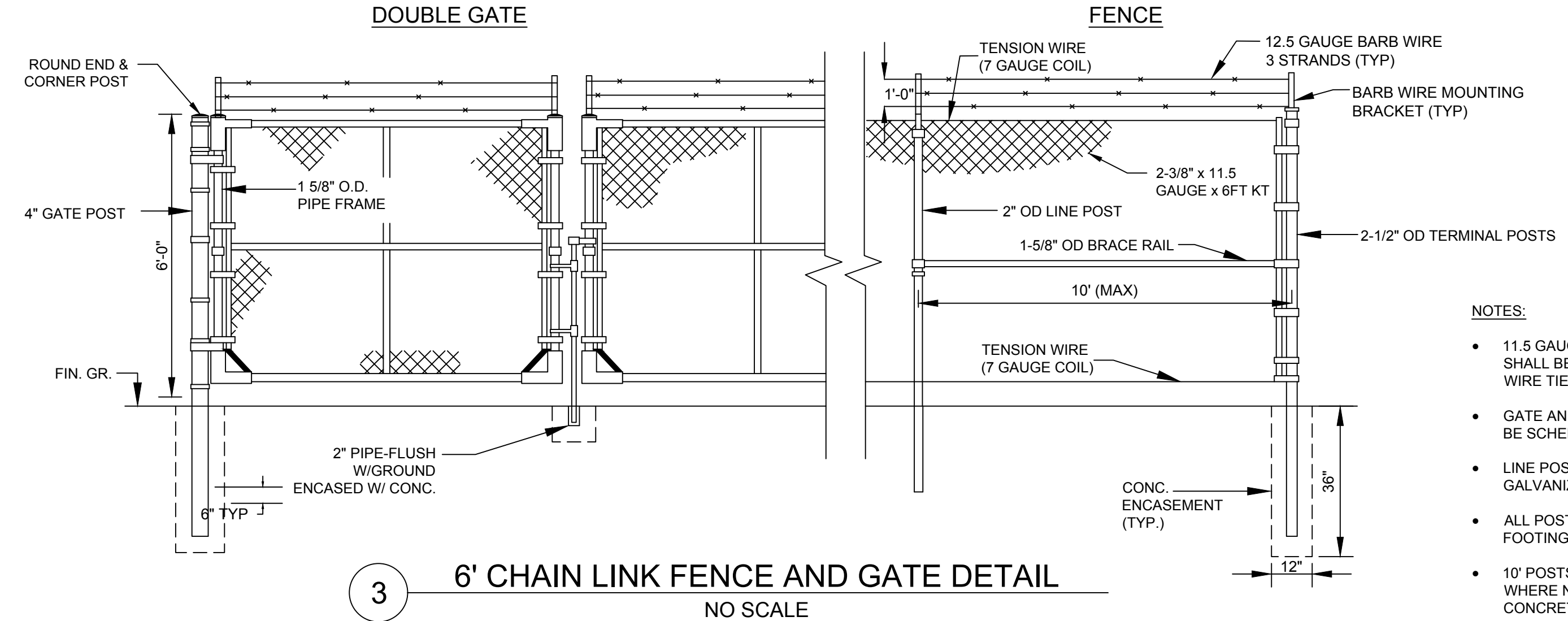
- MAINTENANCE:**
- INSPECT SILT FENCES OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
 - REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
 - REMOVE ALL SILT FENCE OUTLET MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

2 SILT FENCE OUTLET
NO SCALE



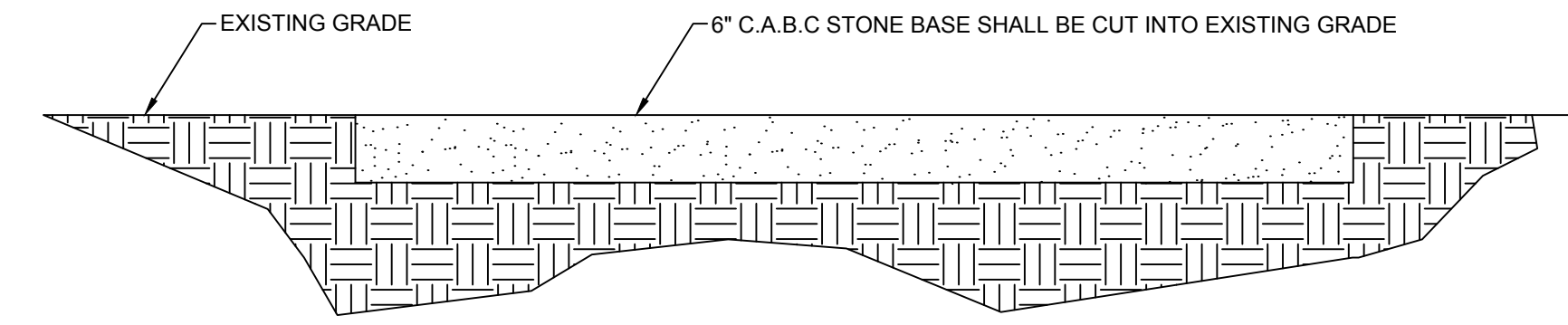
REVISIONS

REV	DESCRIPTION	DSN	CHK	DATE
1	NCDEQ COMMENTS PER EXPRESS REVIEW 10-13-17	MDD	MDI	10/16/2017
2	SOUTHERN CURRENT FENCE ADJUSTMENT	MDD	MDI	10/16/2017
3	HARNETT COUNTY CONDITIONAL USE PERMIT LANDSCAPING COMMENTS	MDI	CGO	10/18/2017
4	NCDEMLR COMMENTS	MDI	CGO	12/1/2017
5	SOUTHERN CURRENT FENCE AND DITCH ADJUSTMENT, ZONING COMMENTS	MDI	CGO	12/19/2017
6	ZONING COMMENTS	MDI	CGO	1/8/2018



- NOTES:**
- 11.5 GAUGE CHAIN LINK FABRIC SHALL BE 1.2 OZ. GALVANIZED WITH WIRE TIES TO POST.
 - GATE AND TERMINAL POSTS SHALL BE SCHEDULE 40 GALVANIZED PIPE.
 - LINE POSTS SHALL BE SCHEDULE 20 GALVANIZED PIPE.
 - ALL POSTS SET IN ASTM CONCRETE FOOTINGS.
 - 10' POSTS EMBEDDED 3.5 - 4 FEET WHERE NOT ENCASED IN CONCRETE.

3 6' CHAIN LINK FENCE AND GATE DETAIL
NO SCALE



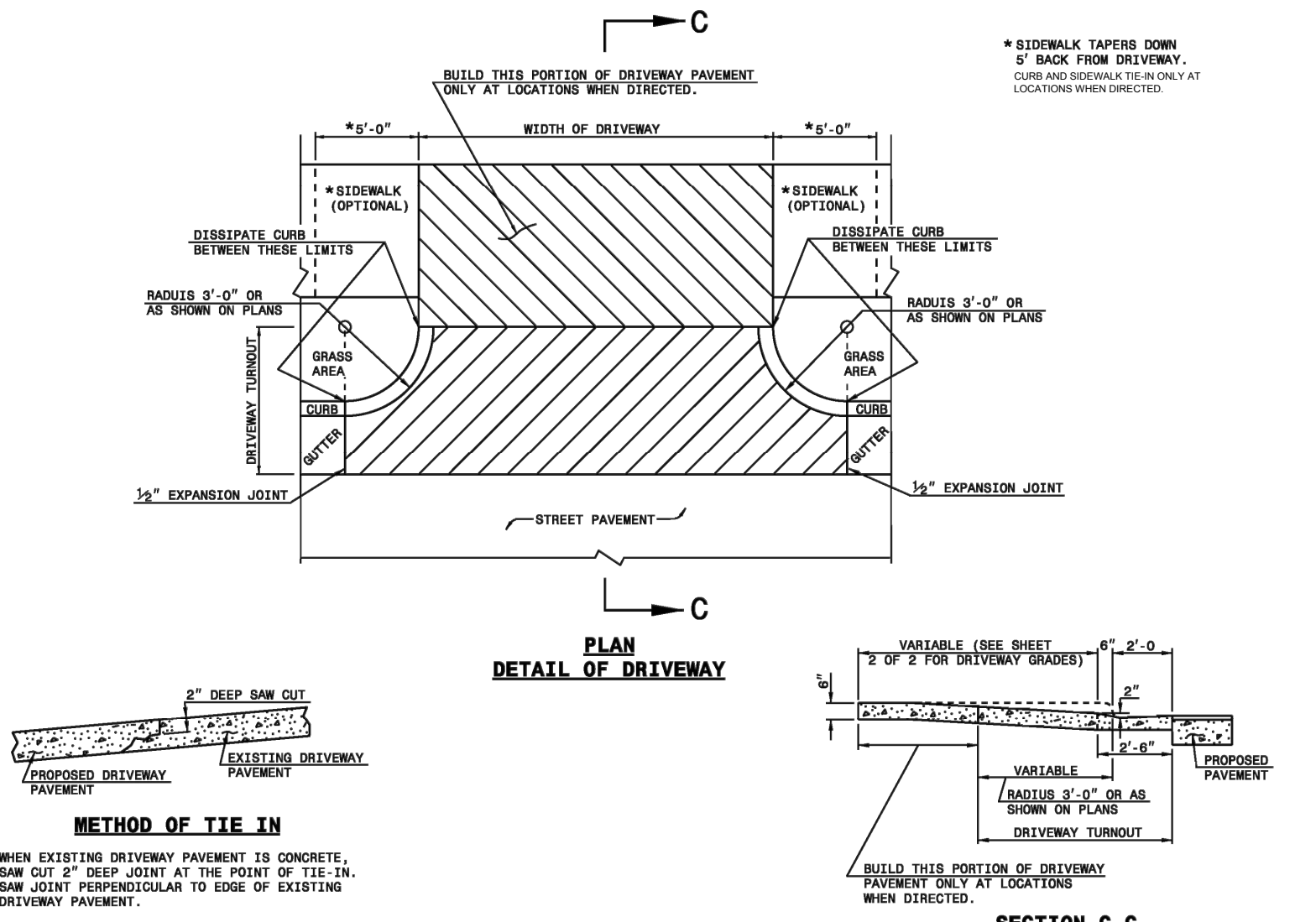
4 GRAVEL ACCESS ROAD SECTION
NO SCALE

SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

0 1"

IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY



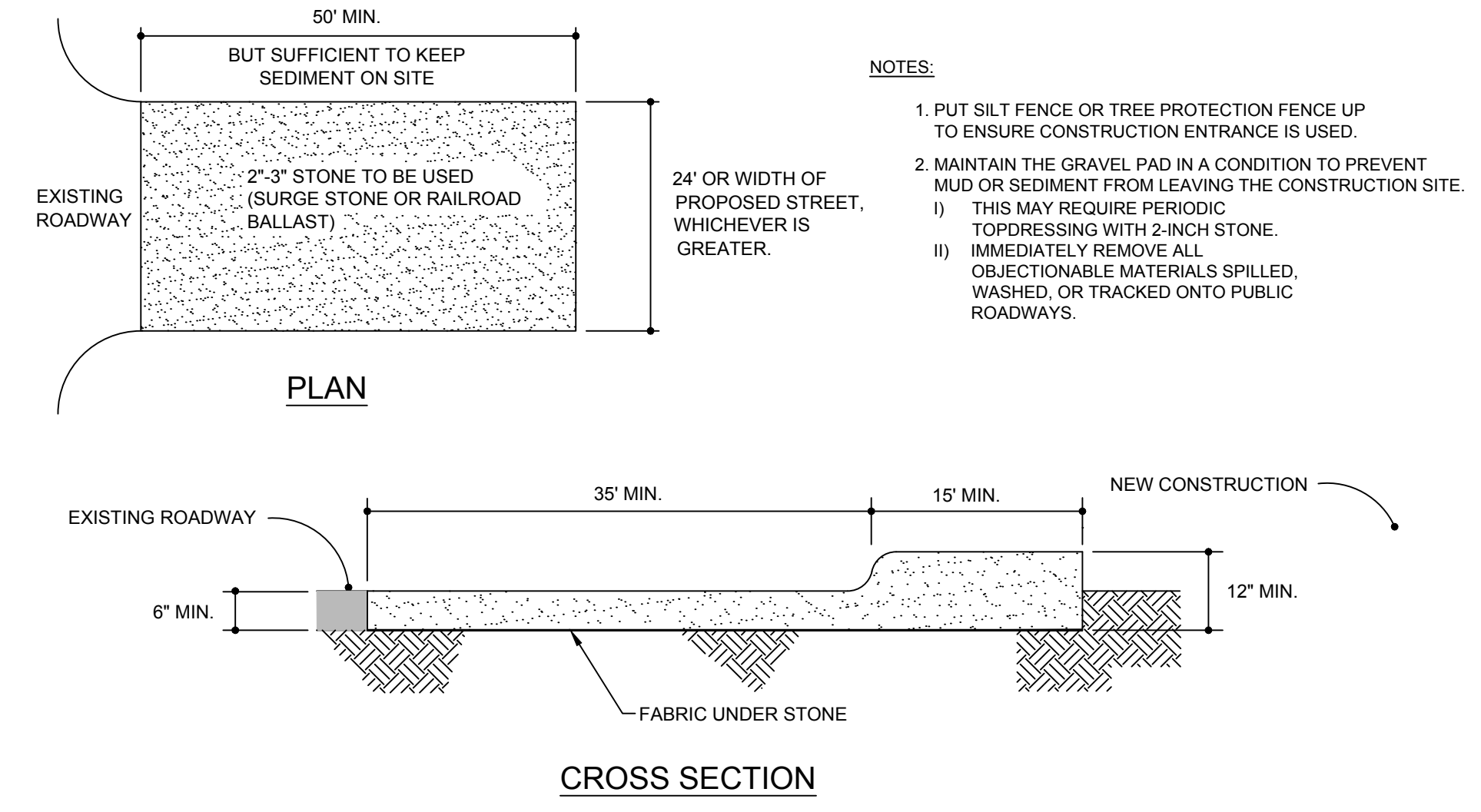
DESIRABLE DRIVEWAY GRADES

BERM WIDTH	A DIST.	A GRADE	B DIST.	B GRADE
8' OR LESS	5'-0"	+2%	2'-6"	+0%
8' OR LESS	2'-0"	+6%	5'-6"	+2%
10'	4'-0"	+4%	5'-6"	+2%
12' & OVER	4'-6"	+4%	7'-0"	+2%

MAXIMUM DRIVEWAY GRADES

BERM WIDTH	A DIST.	A GRADE	B DIST.	B GRADE
8' OR LESS	5'-0"	+2%	2'-6"	+0%
8' OR LESS	2'-0"	+6%	5'-6"	+2%
10'	4'-0"	+4%	5'-6"	+2%
12' & OVER	4'-6"	+4%	7'-0"	+2%

5 TYP. DRIVEWAY ENTRANCE AND SLOPE DETAIL
NO SCALE



- NOTES:**
- PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
 - MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
 - THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE.
 - IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

6 STANDARD CONSTRUCTION ENTRANCE
NO SCALE

ORIGINAL DRAWING SIZE IS 22 x 34

DETAILS

FLOWERS SOLAR LLC
3188 BAILEYS XRDS ROAD
BENSON, NC 27504



SOUTHERN CURRENT
1634 ASHLEY RIVER ROAD
CHARLESTON, SC 29407

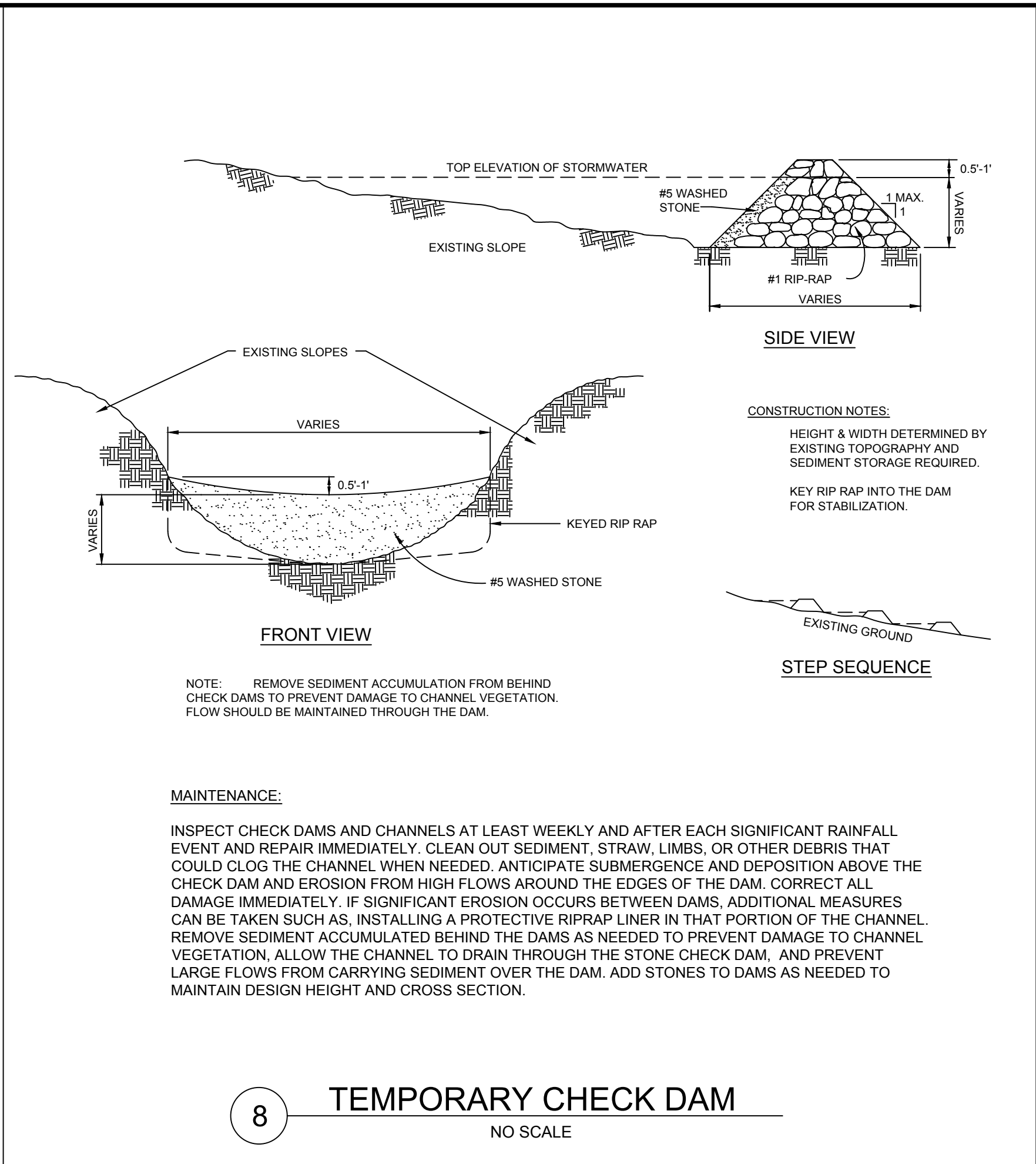
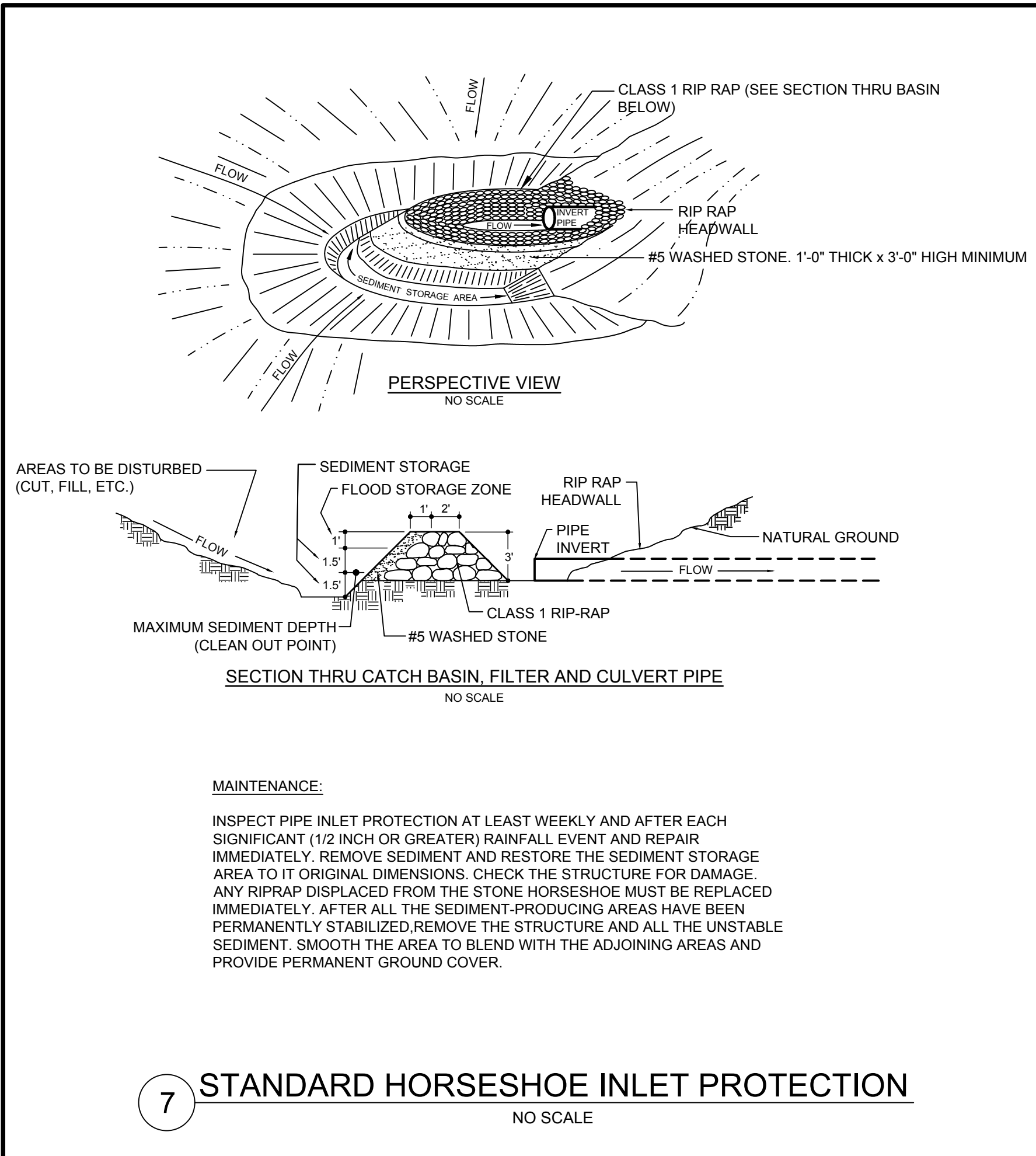
CONSTRUCTION

PROJECT NO.	20181491
ISSUE DATE	01/08/2017
CURRENT REVISION	6
DESIGNED BY	MDD
DRAWN BY	MDD
CHECKED BY	MDI
APPROVED BY	MDI

SHEET 7 of 11

C-7

PLOTTED: 18/2018 3:59 PM BY: michael.bv
 CAD FILE: W:\C\Subcontractors\Current\Flowers\CAD\Drawings\Flowers - DETAILS.dwg LAYOUT: 7 DETAILS



9 NAG C125BN EROSION CONTROL BLANKET
NO SCALE

MAINTENANCE:
• INSPECT ROLLED EROSION CONTROL PRODUCTS (RECP) AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY.
• GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.
• ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
• IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
• MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

KLEINFELDER
Bright People. Right Solutions.

3200 Gateway Centre Blvd., Suite 100
Morrisville, NC 27560
Phone: 919-755-5011
www.kleinfelder.com
NC License # F-1143

REVISIONS

REV	DESCRIPTION	DSN	CHK	DATE
1	NCDEQ COMMENTS PER EXPRESS REVIEW 10-13-17	MDD	MDI	10/16/2017
2	SOUTHERN CURRENT FENCE ADJUSTMENT	MDD	MDI	10/16/2017
3	HARNETT COUNTY CONDITIONAL USE PERMIT LANDSCAPING COMMENTS	MDI	CGO	10/18/2017
4	NCDEMLR COMMENTS	MDI	CGO	12/1/2017
5	SOUTHERN CURRENT FENCE AND DITCH ADJUSTMENT, ZONING COMMENTS	MDI	CGO	12/19/2017
6	ZONING COMMENTS	MDI	CGO	1/8/2018

SEEDBED PREPARATION:

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- RIP THE ENTIRE AREA TO SIX INCHES DEEP.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME FERTILIZER AN UNIFORM SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL. (SEE BELOW).
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON. IF POSSIBLE, IF STAND SHOULD BE OVER 80% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.

PERMANENT SEEDING

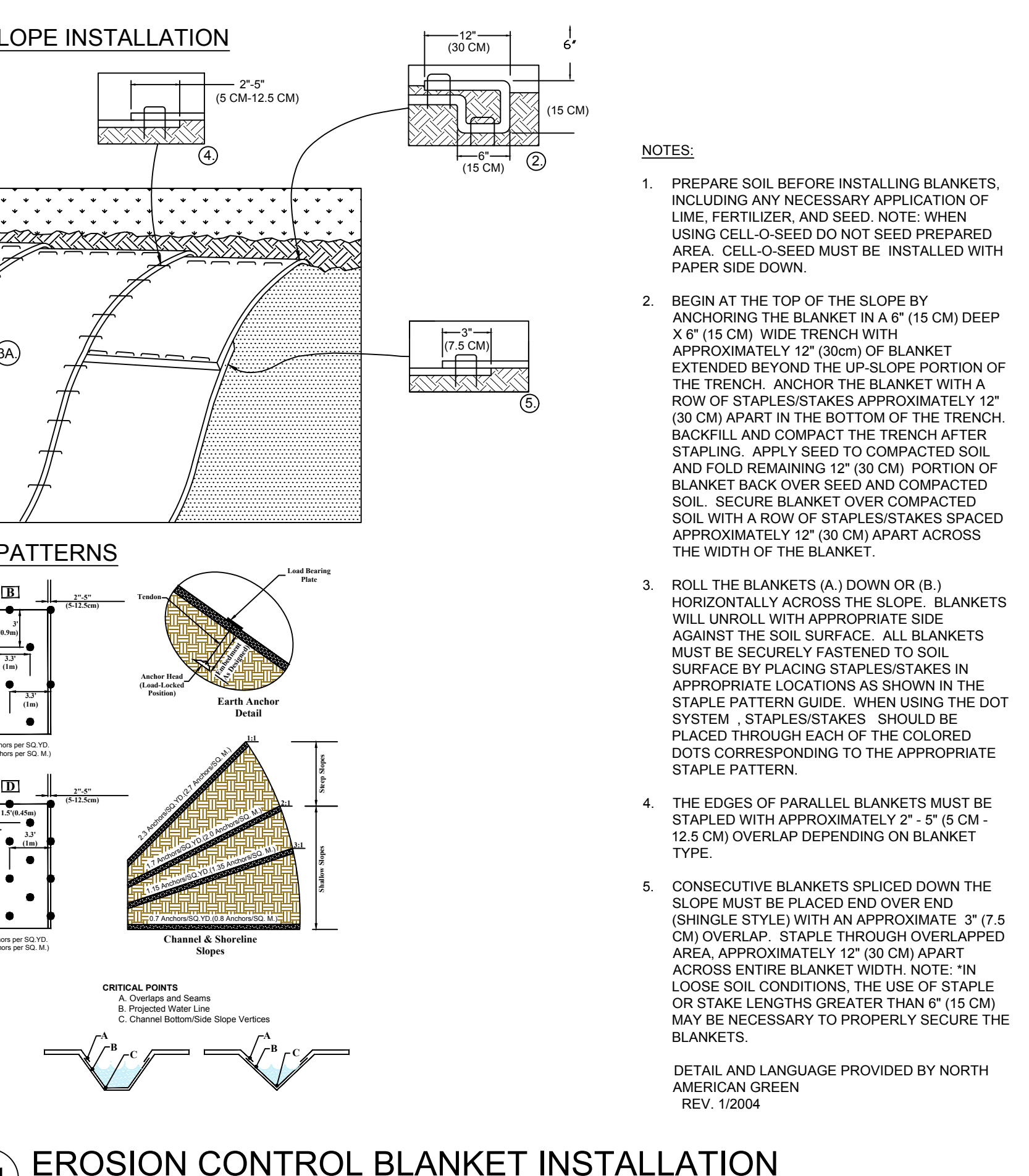
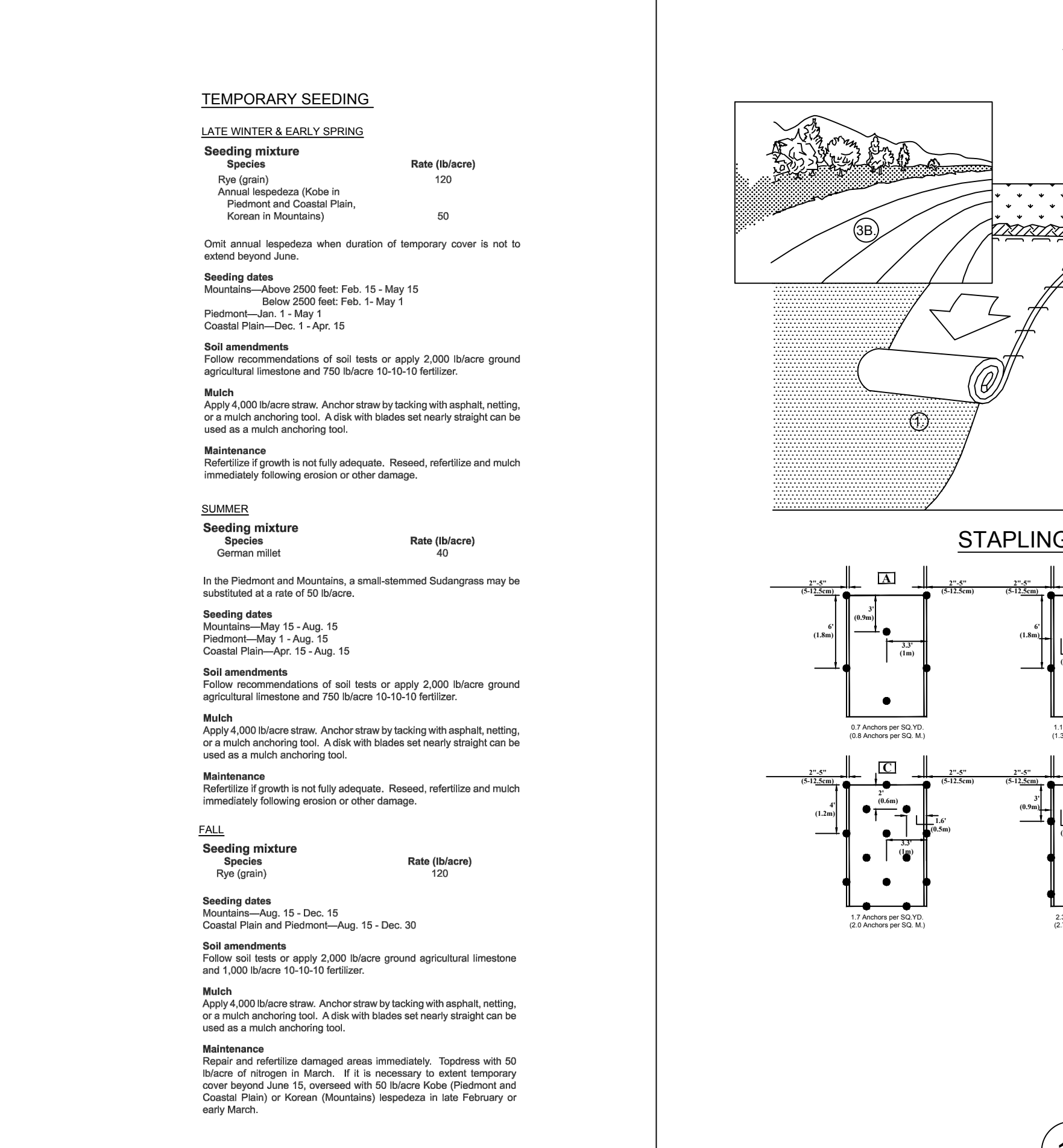
Seedling mixture	Species	Rate (lb/acre)
Tall fescue	80	
Serotina lespedeza	20	
Kobe lespedeza	10	

TEMPORARY SEEDING

Seedling mixture	Species	Rate (lb/acre)
Rye (grain)	120	
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50	

GROUND STABILIZATION (DWQ)

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	EXCEPTIONS
PERMETER DIKES, SWALES, DITCHES, AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NO STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HOW ZONES)



SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

ORIGINAL DRAWING SIZE IS 22 x 34

DETAILS

FLOWERS SOLAR LLC
3188 BAILEYS XRDS ROAD
BENSON, NC 27504

SOUTHERN CURRENT

SOUTHERN CURRENT
1634 ASHLEY RIVER ROAD
CHARLESTON, SC 29407

CONSTRUCTION

PROJECT NO. 20181491
ISSUE DATE 01/08/2017
CURRENT REVISION 6
DESIGNED BY MDD
DRAWN BY MDD
CHECKED BY MDI
APPROVED BY MDI

DETAIL AND LANGUAGE PROVIDED BY NORTH AMERICAN GREEN REV. 1/2004

C-8

SHEET 8 of 11

MAINTENANCE:

INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

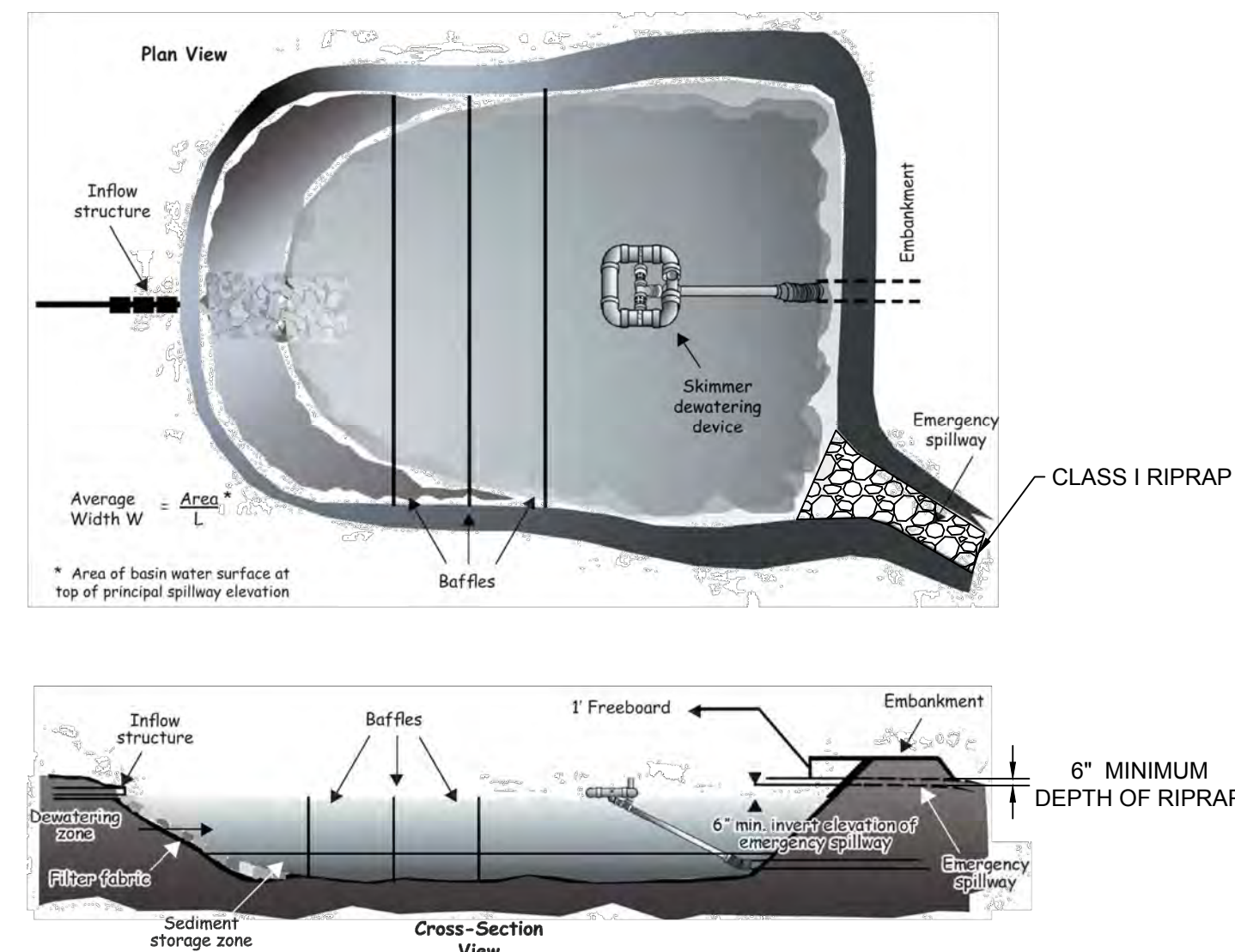
REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL WAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE CLOGGED DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

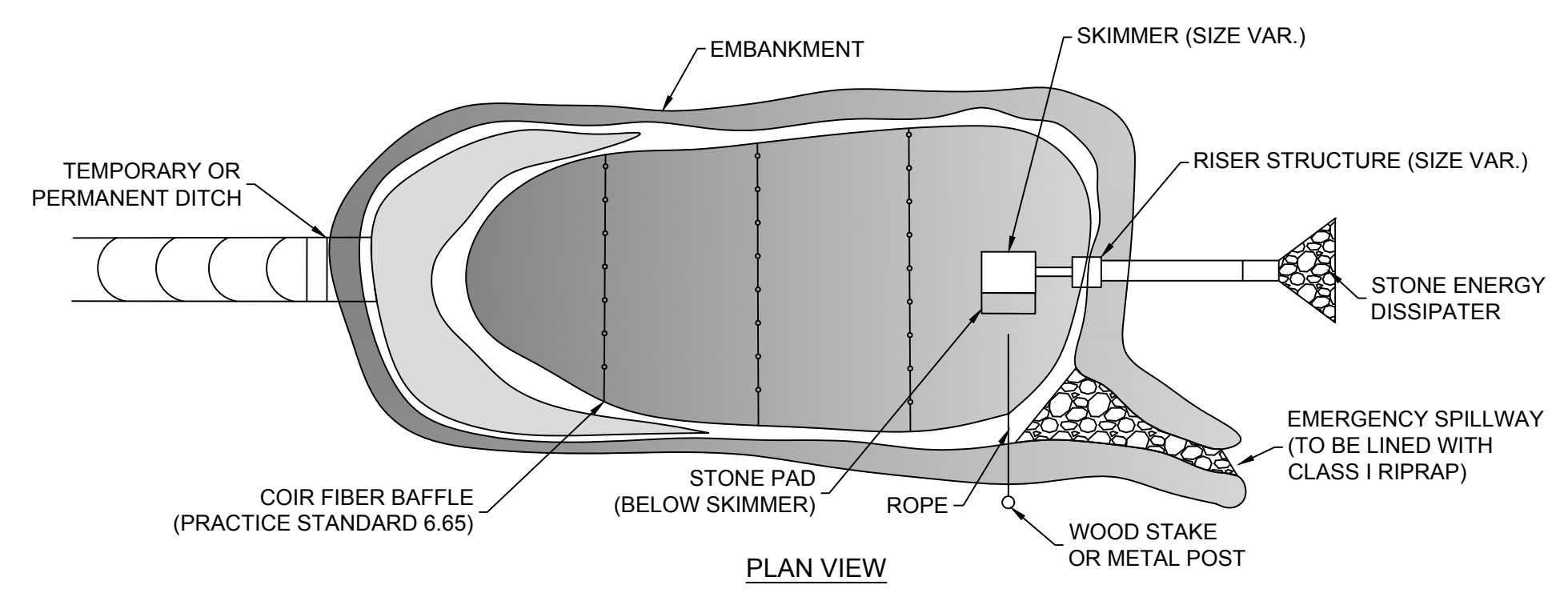
IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBERS SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

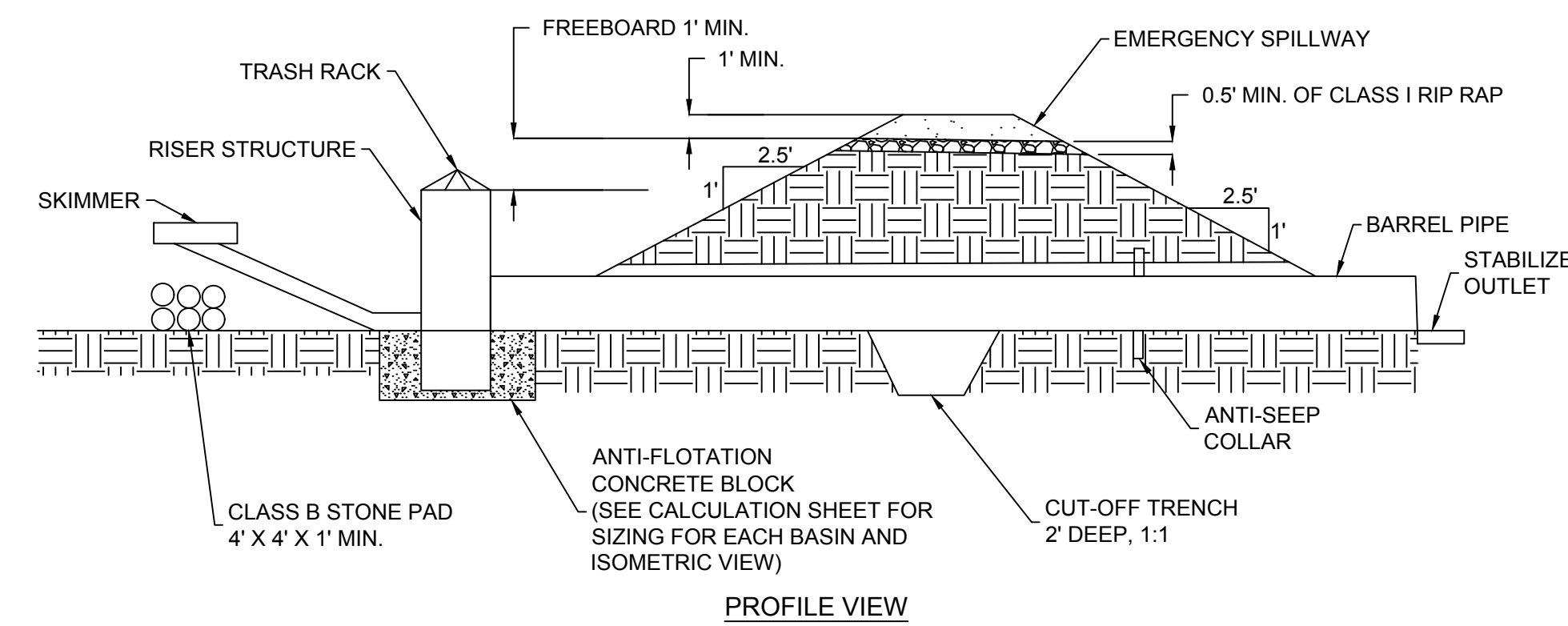
FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.



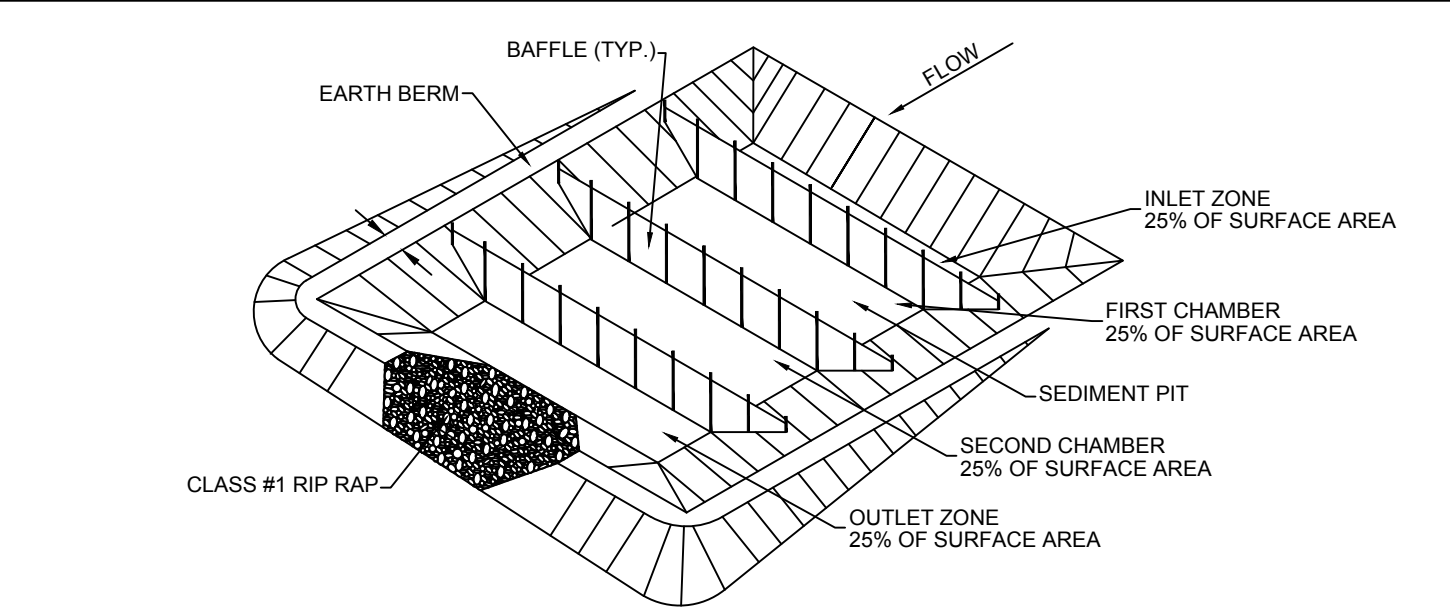
12 SKIMMER SEDIMENT BASIN DETAIL
NO SCALE



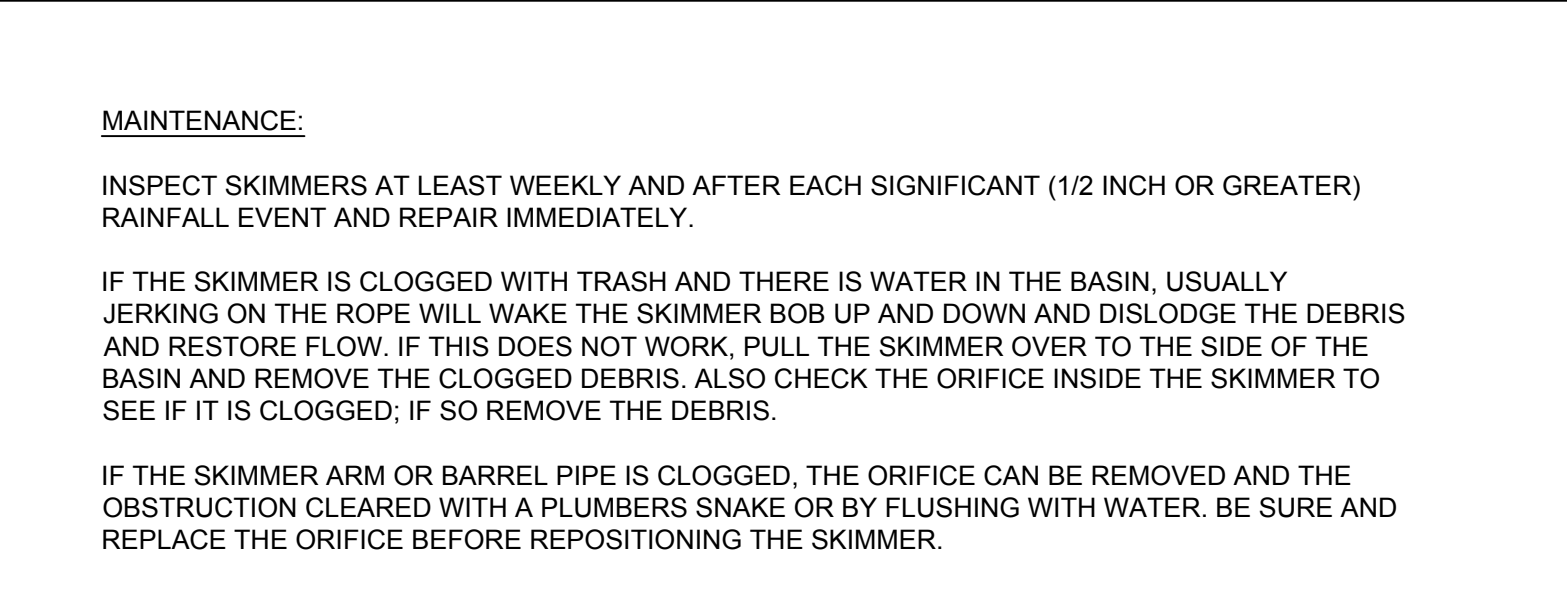
15 RISER SEDIMENT BASIN DETAIL
NO SCALE



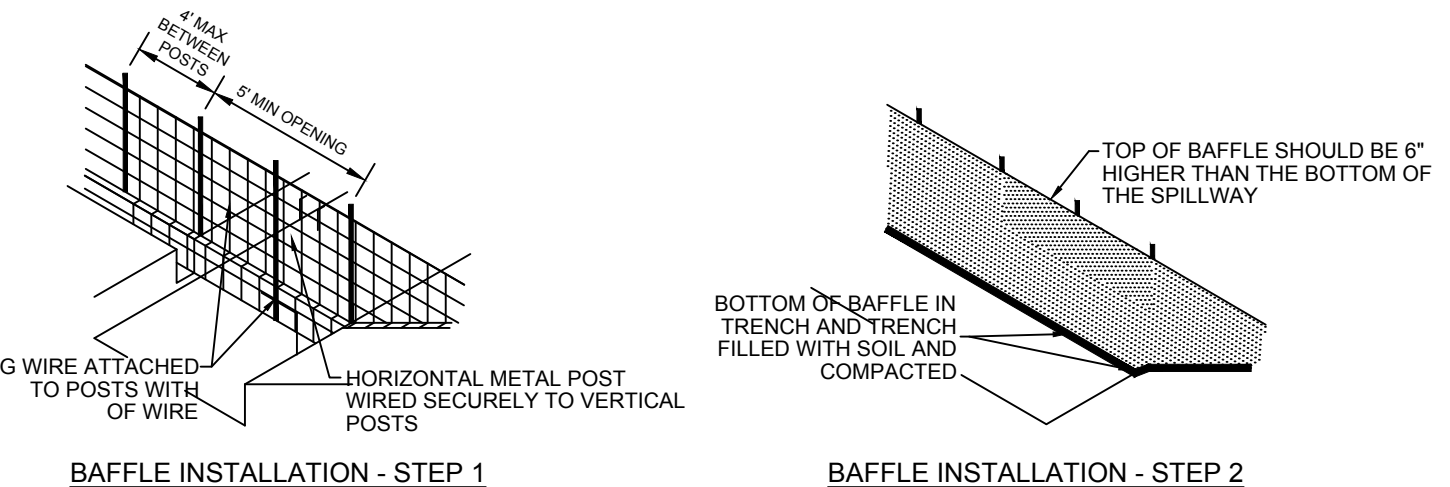
16 MATERIAL SPOIL DETAIL
NO SCALE



13 POROUS BAFFLE DETAIL
NO SCALE



14 SKIMMER DETAIL
NO SCALE



- NOTES:**
1. DRIVE STEEL FENCE POST AT LEAST 18" INTO SOLID GROUND
 2. WOOD POSTS ARE NOT ACCEPTABLE
 3. USE STAPLES 1" APART TO ATTACH FABRIC TO "HOG WIRE"
 4. BAFFLE SPACED AS PER APPROVED PLAN.

POROUS BAFFLE NOTES:

1. POROUS BAFFLES IMPROVE THE RATE OF SEDIMENT RETENTION BY DISTRIBUTING THE FLOW AND REDUCING TURBULENCE.
2. MATERIALS SUCH AS 700 GM2 COIR EROSION BLANKET, COIR MESH, TREE PROTECTION FENCE FOLDED OVER TO REDUCE PORE SIZE, OR OTHER SIMILAR MATERIALS SHOULD BE USED.

MAINTENANCE:

INSPECT SKIMMERS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL WAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE CLOGGED DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBERS SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

NOTE:
SKIMMER IS TO BE A SURFACE DEWATERING DEVICE SUCH AS BMP SKIMMER OR APPROVED DEVICE.

MAINTENANCE:

INSPECT TEMPORARY SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. PLACE REMOVED THE SEDIMENT IN AN AREA WITH SEDIMENT CONTROLS.

CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIR IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA.

KLEINFELDER
Bright People. Right Solutions.

3200 Gateway Centre Blvd., Suite 100
Morrisville, NC 27560
Phone: 919-755-5011
www.kleinfelder.com
NC License # F-1143

PROFESSIONAL ENGINEER
MICHAEL D. IVY
SEAL 042627

REVISIONS

REV	DESCRIPTION	DSN	CHK	DATE
1	NCDEQ COMMENTS PER EXPRESS REVIEW 10-13-17	MDD	MDI	10/16/2017
2	SOUTHERN CURRENT FENCE ADJUSTMENT	MDD	MDI	10/16/2017
3	HARNETT COUNTY CONDITIONAL USE PERMIT LANDSCAPING COMMENTS	MDI	CGO	10/18/2017
4	NCDEMLR COMMENTS	MDI	CGO	12/1/2017
5	SOUTHERN CURRENT FENCE AND DITCH ADJUSTMENT, ZONING COMMENTS	MDI	CGO	12/19/2017
6	ZONING COMMENTS	MDI	CGO	1/8/2018

SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

ORIGINAL DRAWING SIZE IS 22 x 34

DETAILS

FLOWERS SOLAR LLC
3188 BAILEYS XRDS ROAD
BENSON, NC 27504

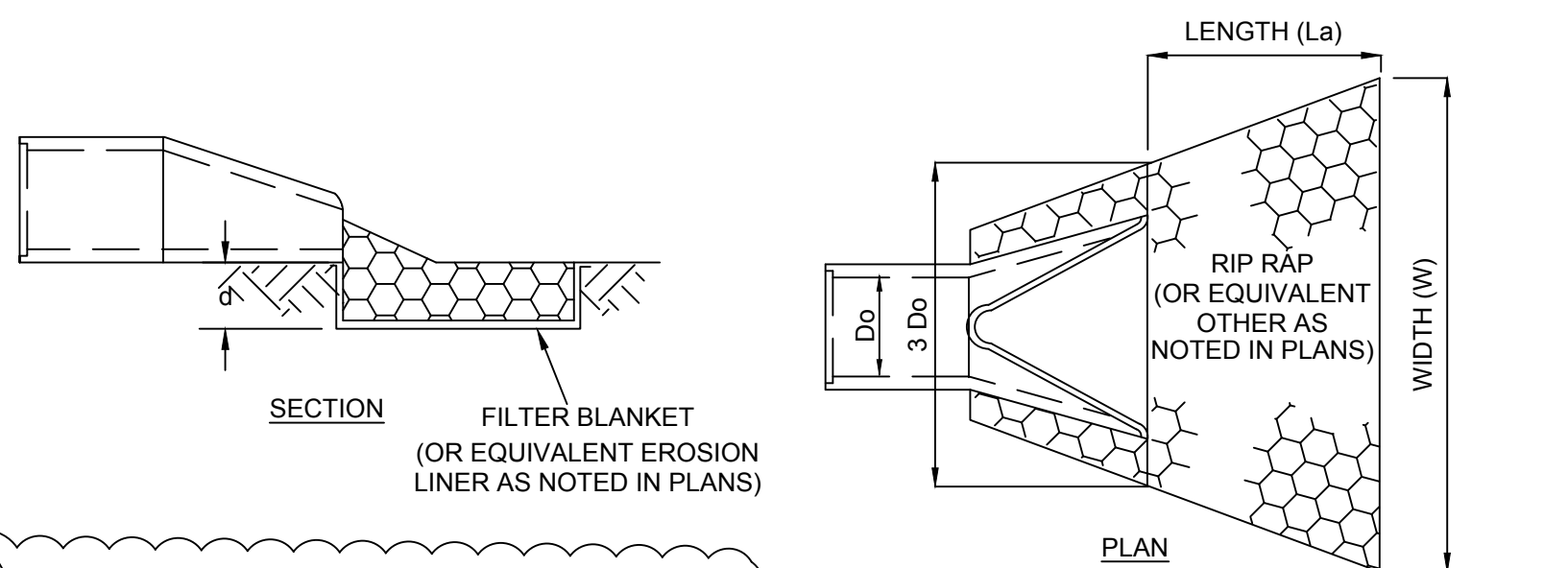
SOUTHERN CURRENT

SOUTHERN CURRENT
1634 ASHLEY RIVER ROAD
CHARLESTON, SC 29407

CONSTRUCTION

PROJECT NO.	20181491	C-9
ISSUE DATE	01/08/2017	
CURRENT REVISION	6	
DESIGNED BY	MDD	
DRAWN BY	MDD	
CHECKED BY	MDI	
APPROVED BY	MDI	SHEET 9 of 11

PLOTTED: 18/2018 4:00 PM BY: michael.ivy
 CAD FILE: W:\CH\Southern Current\Flowers\CAD\Drawings\Flowers - DETAILS.dwg LAYOUT: 9 DETAILS



OUTLET ID	Do	3Do	La	W	RIP RAP	d
CULVERT 1	15"	3.75'	5'	3.75'	CLASS A	9"
CULVERT 2	18"	4.5'	9'	4.5'	CLASS B	22"
CULVERT 3	18"	4.5'	9'	4.5'	CLASS B	22"
CULVERT 4	24"	6'	12'	6'	CLASS B	22"
PD-1	42"	10.5'	21'	10.5'	CLASS B	22"
PD-2	30"	7.5'	15'	7.5'	CLASS B	22"
PD-3	30"	7.5'	10'	7.5'	CLASS A	9"
PD-4	30"	7.5'	10'	7.5'	CLASS A	9"
RB-1A	30"	7.5'	15'	7.5'	CLASS B	22"
RB-1B	42"	10.5'	21'	10.5'	CLASS B	22"
SK-1A	42"	10.5'	21'	10.5'	CLASS B	22"
SK-1B	15"	3.75'	26'	3.75'	CLASS B	22"

- NOTES:**
- FOR RIPRAP LOCATED AT DIVERSION DITCH OUTLETS:
 - "Do" REPRESENTS THE THEORETICAL PIPE DIAMETER USED TO SIZE THE RIPRAP.
 - "3Do" REPRESENTS THE WIDTH OF THE RIPRAP WITHIN THE DITCH CROSS SECTION. BOTH SLOPES OF THE DITCH SHOULD BE COMPLETELY COVERED WITH RIPRAP.
 - "L" REPRESENTS THE LENGTH OF RIPRAP MEASURED FROM THE TOE SLOPE OF THE ASSOCIATED BASIN, UP INTO THE DITCH.
 - "W" REPRESENTS THE WIDTH OF THE RIPRAP AT THE TOE SLOPE OF THE ASSOCIATED BASIN

MAINTENANCE:

INSPECT PIPE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF THE STONES HAVE BEEN DISLODGED.

IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

FLARED END SECTION WITH ENERGY DISSIPATER
NO SCALE

17

ROLLMAX™
ROLLED EROSION CONTROL

Specification Sheet - EroNet™ P300® Permanent Erosion Control Blanket

DESCRIPTION
The permanent erosion control blanket shall be a machine-produced mat of 100% UV stable polypropylene fiber. The matting shall be of consistent thickness with the synthetic fibers evenly distributed over the entire area of the mat. The matting shall be covered on the top side with black heavy weight UV-stabilized polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.50 x 0.50 inch (1.27 x 1.27 cm) mesh. The bottom mat shall also be UV-stabilized polypropylene with a 0.63 x 0.63 inch (1.57 x 1.57 cm) mesh size. The blanket shall be sewn together on 1.5 inch (3.81 cm) centers with non-degradable thread. All mats shall be manufactured with a colored thread stitched along both outer edges as an overlap guide for adjacent mats. The P300 shall meet Type SA, 5B, specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.18

Index Property	Test Method	Typical
Thickness	ASTM D5525	0.47 in (11.94 mm)
Resiliency	ASTM D5524	91.5%
Density	ASTM D792	0.996 g/cm ³
Mass/Unit Area	ASTM D5566	13.03 oz/sy (443 g/m ²)
UV Stability	ASTM D4855/1000 hr	90%
Porosity	ECTC Guidelines	55-99%
Stiffness	ASTM D1388	0.94 in-lb (0.00378 mg-cm)
Light Penetration	ASTM D5567	17.9%
Tensile Strength - MD	ASTM D6618	438 lbs/ft (6.49 kN/m)
Elongation - MD	ASTM D6618	28.3%
Tensile Strength - TD	ASTM D6618	291.9 lbs/ft (4.32 kN/m)
Elongation - TD	ASTM D6618	26.7%
Biomass Improvement	ASTM D7323	493%

Design Permissible Shear Stress

Phase	Short Duration	Long Duration
Phase 1: Unvegetated	3.0 psf (144 Pa)	2.0 psf (96 Pa)
Phase 2: Partially Veg.	8.0 psf (383 Pa)	8.0 psf (383 Pa)
Phase 3: Fully Veg.	8.0 psf (383 Pa)	8.0 psf (383 Pa)

Standard Roll Sizes

Width	Length	Weight ± 10%	Area
5 ft (2.0 m)	8 ft (2.44 m)	108.1 lbs (49.1 kg)	110 sq ft (10.1 m ²)
10 ft (3.0 m)	110 ft (33.5 m)	61 lbs (27.66 kg)	76.25 sq (7.03 m ²)
80 sq yd (66.0 sm)	100 sq yd (83.61 sm)		

Slope Design Data - C Factors

Slope Length (L)	Slope Gradients (S)	C Factor
≤ 31 ft (9.4 m)	3:1 - 2:1	0.051
≤ 20 ft (6 m)	0.029	0.082
20-50 ft	0.036	0.086
≥ 50 ft (15.2 m)	0.070	0.110

Roughness Coefficients - Unveg.

Flow Depth	K Manning's n
≤ 0.50 ft (0.15 m)	0.034
0.50 - 2.0 ft	0.034-0.020
≥ 2.0 ft (0.60 m)	0.020

Tensar International Corporation
2520 Northwinds Parkway
Suite 500
Alpharetta, GA 30009
800-TENSAR-1
tensarcorp.com

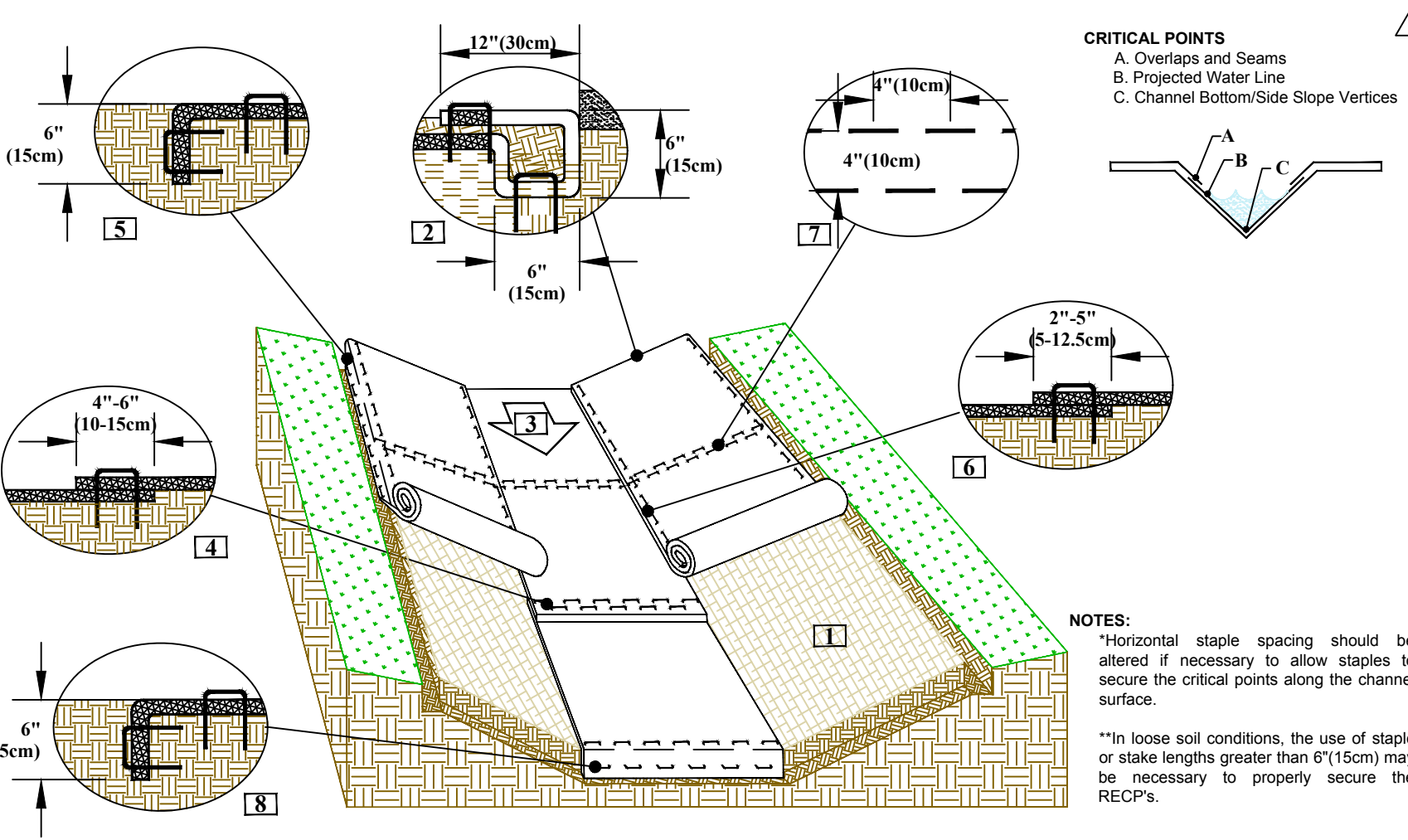
Tensar International Corporation warrants that at the time of delivery the product furnished hereunder will conform to the specification stated herein. Any other warranties including merchantability and fitness for a particular purpose, are hereby waived. If the product does not meet specifications on this page and there is insufficient time to re-estimate, Tensar will replace the product at no charge. The product described herein is not applicable to any products shipped prior to January 2002.

©2011, Tensar International Corporation EC_9M4_MP05_P300_5.19

- MAINTENANCE:**
- INSPECT ROLLED EROSION CONTROL PRODUCTS (RECP) AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY.
 - GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.
 - ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
 - IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
 - MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

NAG P300 EROSION CONTROL MATTING
NO SCALE

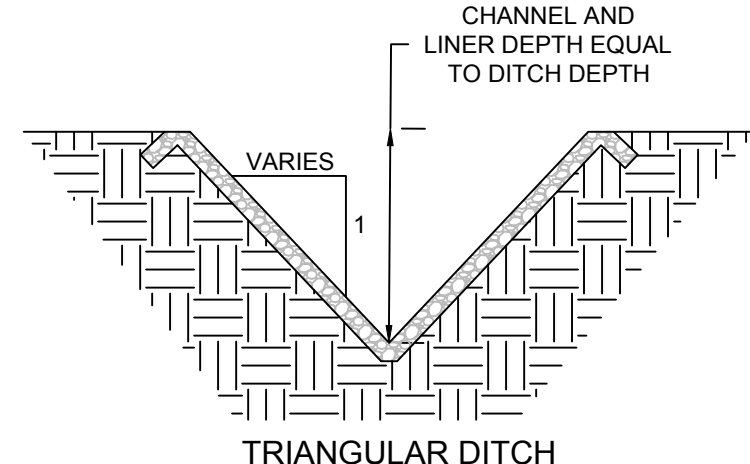
18



- NOTES:**
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 - BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECPs IN A 6" (15CM) DEEP X 6" (15CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. USE SHOREMAX MAT AT THE CHANNEL/CULVERT/OUTLET AS SUPPLEMENTAL SCOUR PROTECTION AS NEEDED. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12" (30CM) PORTION OF RECPs BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPs.
 - ROLL CENTER RECPs IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
 - PLACE CONSECUTIVE RECPs END-OVER-END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE RECPs.
 - FULL LENGTH EDGE OF RECPs AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN A 6" (15CM) DEEP X 6" (15CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 - ADJACENT RECPs MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5-12.5CM) (DEPENDING ON RECPs TYPE) AND STAPLED.
 - IN HIGH FLOW CHANNEL APPLICATIONS A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 - 12M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10CM) APART AND 4" (10CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
 - THE TERMINAL END OF THE RECPs MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN A 6" (15CM) DEEP X 6" (15CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

CHANNEL MATTING INSTALLATION
NO SCALE

20



PERMANENT DIVERSION DITCHES

NAME	LENGTH (FT)	LEFT SIDESLOPE (Z:1)	RIGHT SIDESLOPE (Z:1)	DEPTH (FT)	SLOPE (%)	SPECIFIED EROSION CONTROL BLANKET
DIVERSION DITCH PD-1	423	8	3	1.00	1.70%	NORTH AMERICAN GREEN P300
DIVERSION DITCH PD-2	363	3	8	1.00	2.60%	NORTH AMERICAN GREEN P300
DIVERSION DITCH PD-3	572	8	3	1.00	1.50%	NORTH AMERICAN GREEN P300
DIVERSION DITCH PD-4	250	3	8	1.00	2.00%	NORTH AMERICAN GREEN P300

TEMPORARY DIVERSION DITCHES

NAME	LENGTH (FT)	LEFT SIDESLOPE (Z:1)	RIGHT SIDESLOPE (Z:1)	DEPTH (FT)	SLOPE (%)	SPECIFIED EROSION CONTROL BLANKET
DIVERSION DITCH RB-1A	743	8	8	1.00	3.84%	NORTH AMERICAN GREEN C125BN
DIVERSION DITCH RB-1B	863	8	8	1.00	2.42%	NORTH AMERICAN GREEN C125BN
DIVERSION DITCH SK-1A	817	6	6	1.00	2.85%	NORTH AMERICAN GREEN C125BN
DIVERSION DITCH SK-1B	892	6	6	1.00	3.72%	NORTH AMERICAN GREEN C125BN

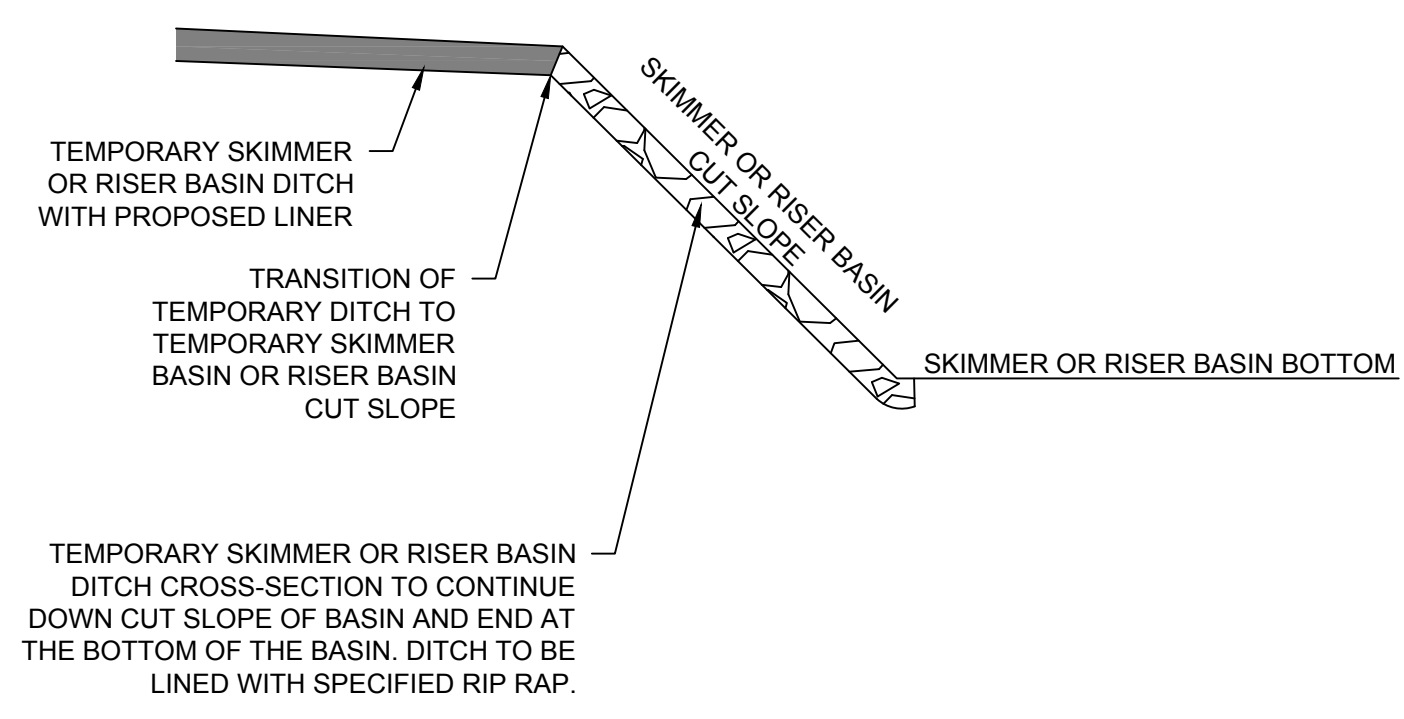
- NOTES:**
- REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL.
 - ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DESIGN REQUIREMENTS.
 - PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REGRADING AND CLEANOUT.

MAINTENANCE:

INSPECT TEMPORARY DIVERSIONS AT LEAST WEEKLY AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION DITCH. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

PERMANENT AND TEMPORARY DIVERSION DITCH DETAILS
NO SCALE

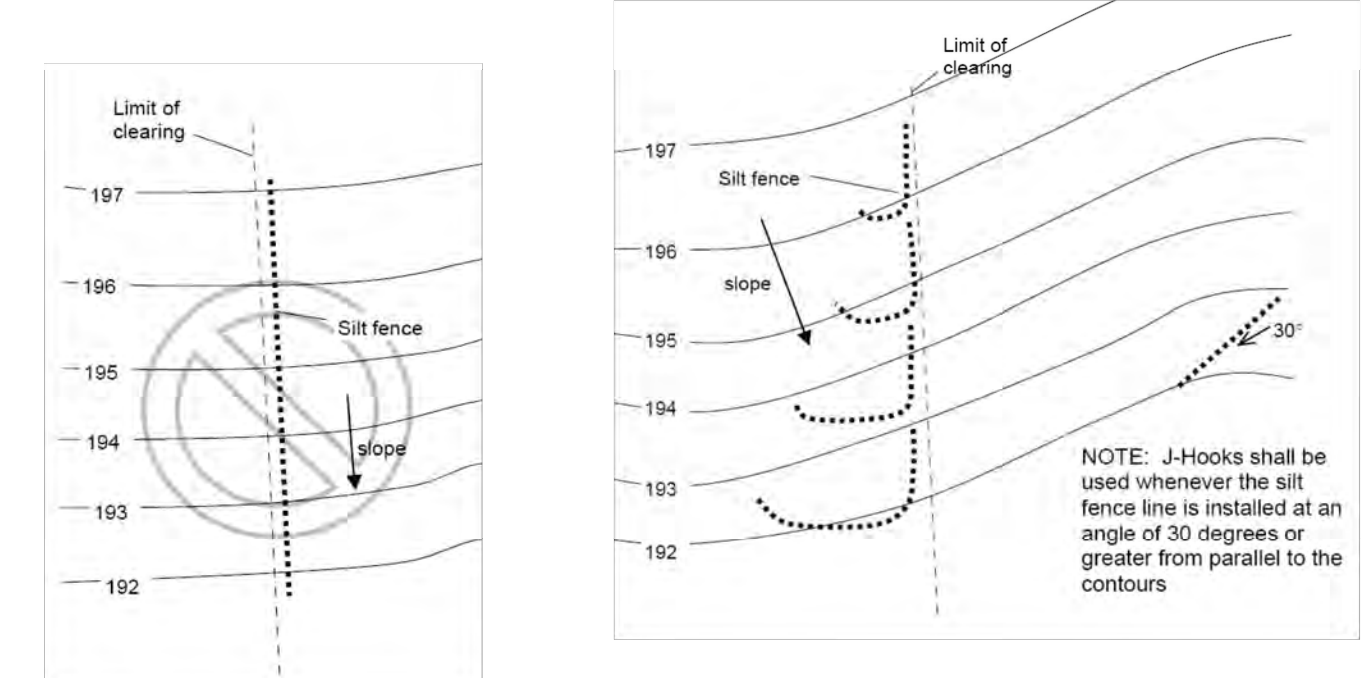
21



TEMPORARY SKIMMER OR RISER BASIN DITCH CROSS-SECTION TO CONTINUE DOWN CUT SLOPE OF BASIN AND END AT THE BOTTOM OF THE BASIN. DITCH TO BE LINED WITH SPECIFIED RIP RAP.

DITCH TO BASIN TRANSITION DETAIL
NO SCALE

19



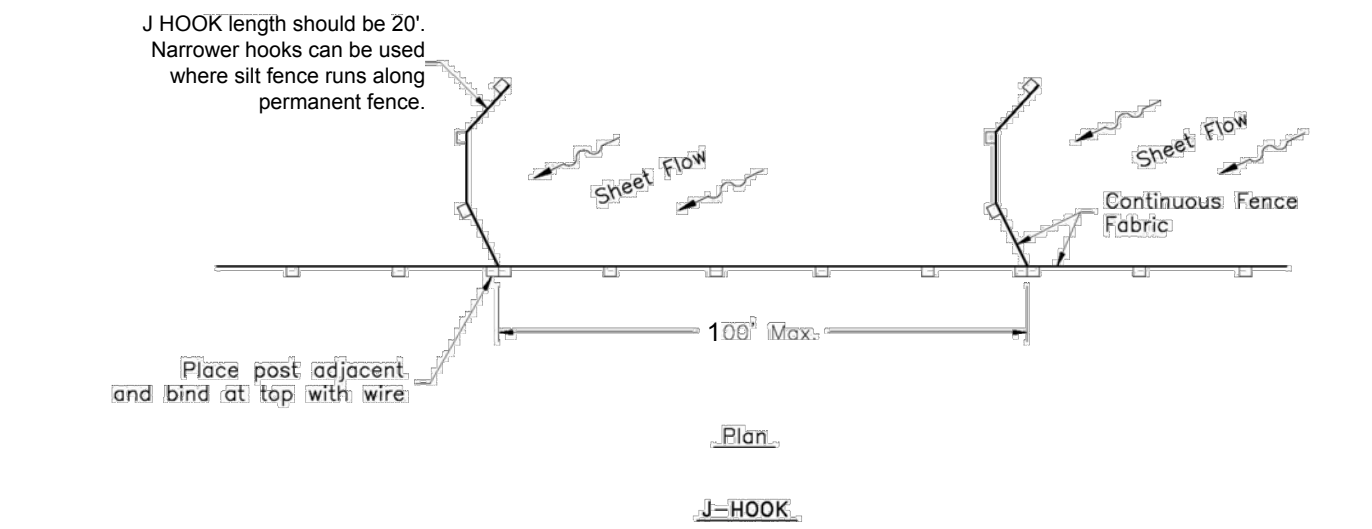
INCORRECT
Silt fence installed parallel to slope (perpendicular to contour) in one, long run

CORRECT
Silt fence installed in shorter runs with "J-Hooks" to avoid concentration of flows at one location by trapping runoff at multiple points along a slope.

Purpose:
The proper operation of silt fence depends on the ability to temporarily pond runoff behind the fence, allowing time for sediments to settle. Silt fence is not a filter. If water flows around the end/s, the silt fence fails to function. It must be placed where it will store water - often times along a slope a 'smile' or J-hook shape is required to create a storage area. Long runs should be avoided, and broken up into smaller segments.

Slope Steepness	Maximum Space between silt fence rows or J-hooks (ft.)
2:1 (50%)	25
3:1 (33%)	50
4:1 (25%)	75
5:1 or flatter (20%)	100

Typical J-Hook Dimensions
Minimum width of J-Hook recommended at 20 ft with a depth of 10 ft. Where space is limited (e.g., along permanent fence line), narrower hooks can be used with a higher spacing frequency.



SILT FENCE J HOOK DETAIL
NO SCALE

22

KLEINFELDER
Bright People. Right Solutions.

3200 Gateway Centre Blvd., Suite 100
Morrisville, NC 27560
Phone: 919-755-5011
www.kleinfelder.com
NC License # F-1143

PROFESSIONAL ENGINEER
MICHAEL D. IVY
SEAL 042627

REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	NCDEQ COMMENTS PER EXPRESS REVIEW 10-13-17	MDD	MDI	10/16/2017
2	SOUTHERN CURRENT FENCE ADJUSTMENT	MDD	MDI	10/16/2017
3	HARNETT COUNTY CONDITIONAL USE PERMIT LANDSCAPING COMMENTS	MDI	CGO	10/18/2017
4	NCDEMLR COMMENTS	MDI	CGO	12/1/2017
5	SOUTHERN CURRENT FENCE AND DITCH ADJUSTMENT, ZONING COMMENTS	MDI	CGO	12/19/2017
6	ZONING COMMENTS	MDI	CGO	1/8/2018

SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

DETAILS

FLOWERS SOLAR LLC
3188 BAILEYS XRDS ROAD
BENSON, NC 27504

SOUTHERN CURRENT

SOUTHERN CURRENT
1634 ASHLEY RIVER ROAD
CHARLESTON, SC 29407

CONSTRUCTION

PROJECT NO.	20181491
ISSUE DATE	01/08/2017
CURRENT REVISION	6
DESIGNED BY	MDD
DRAWN BY	MDD
CHECKED BY	MDI
APPROVED BY	MDI

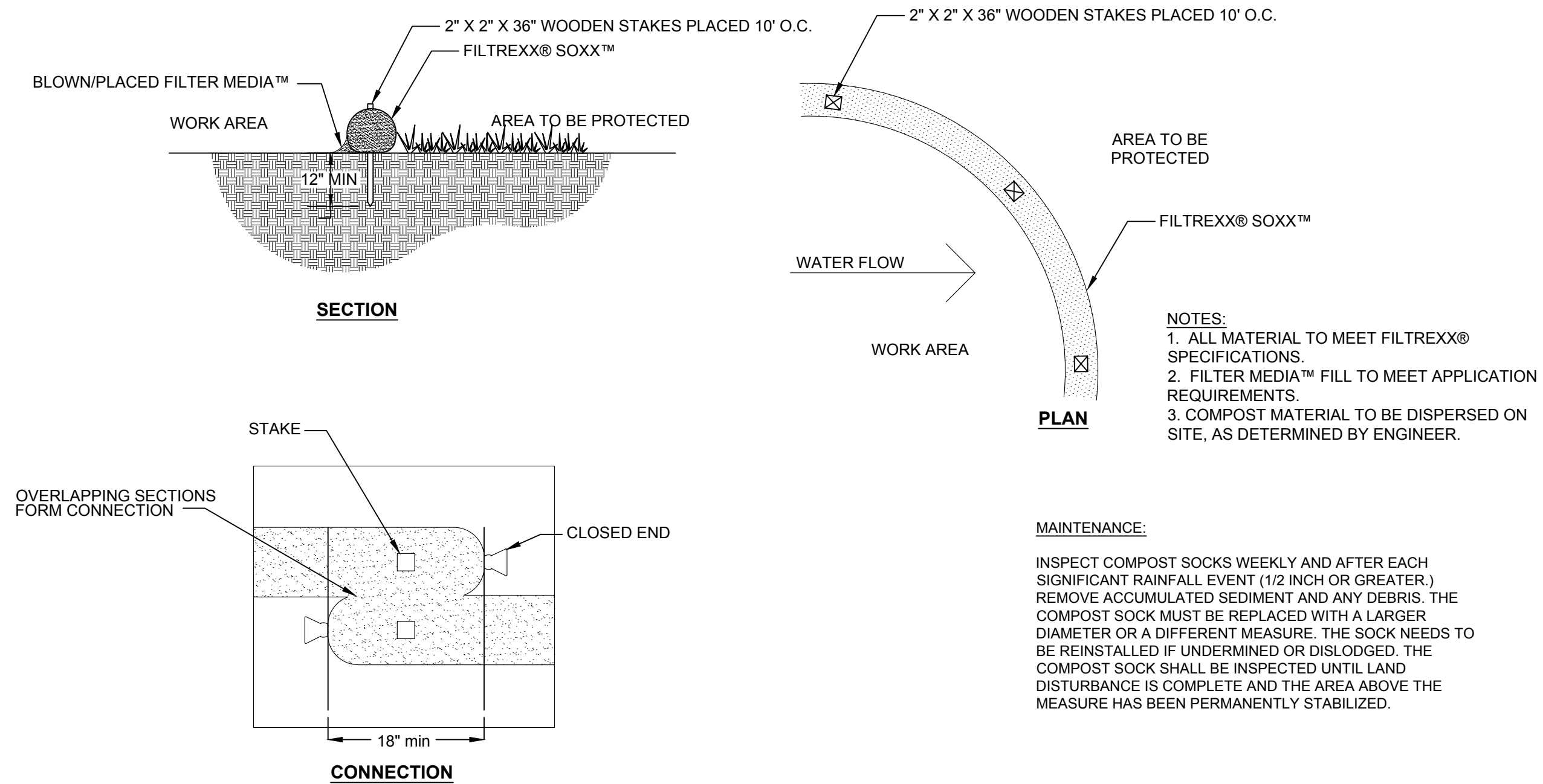
C-10

SHEET 10 of 11



REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	NCDEQ COMMENTS PER EXPRESS REVIEW 10-13-17	MDD	MDI	10/16/2017
2	SOUTHERN CURRENT FENCE ADJUSTMENT	MDD	MDI	10/16/2017
3	HARNETT COUNTY CONDITIONAL USE PERMIT LANDSCAPING COMMENTS	MDI	CGO	10/18/2017
4	NCDEMLR COMMENTS	MDI	CGO	12/1/2017
5	SOUTHERN CURRENT FENCE AND DITCH ADJUSTMENT, ZONING COMMENTS	MDI	CGO	12/19/2017
6	ZONING COMMENTS	MDI	CGO	1/8/2018



MAINTENANCE:
INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER.) REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

Table 6.66c – Compost Sock Initial Flow Rates

Compost Sock Design Diameter	8 inch (200mm)	12 inch (300mm)	18 inch (450mm)	24 inch (600mm)	32 inch (800mm)
Maximum Slope Length (<2%)	600 ft (183m)	750 ft (229m)	1,000 ft (305m)	1,300 ft (396m)	1,650 ft (500m)
Hydraulic Flow Through Rate	7.5 gpm/ft (94 l/m/m)	11.3 gpm/ft (141 l/m/m)	15.0 gpm/ft (188 l/m/m)	22.5 gpm/ft (281 l/m/m)	30.0 gpm/ft (374 l/m/m)

Source: B. Faucette-2010

FILTER SOCK SECTION	MANNINGS NUMBER (N)	10-YR. 24-HR DEPTH (IN.)	SLOPE (%)	WIDTH OF FLOW (FT)	LENGTH OF FILTER SOCK SECTION (FT)	Q (GPM/FT)	FILTER SOCK SIZE (PER TABLE 6.66c)
DA-1	0.3	5.48	1.58	250	429	6.20	12"

SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING



IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

ORIGINAL DRAWING SIZE IS 22 x 34

DETAILS

FLOWERS SOLAR LLC
3188 BAILEYS XRDS ROAD
BENSON, NC 27504



SOUTHERN CURRENT
1634 ASHLEY RIVER ROAD
CHARLESTON, SC 29407

CONSTRUCTION

PROJECT NO.	20181491
ISSUE DATE	01/08/2017
CURRENT REVISION	6
DESIGNED BY	MDD
DRAWN BY	MDD
CHECKED BY	MDI
APPROVED BY	MDI

C-11

SHEET 11 of 11