

# WASHINGTON STREET SOLAR ARRAY

80 WASHINGTON STREET · WRENTHAM · MASSACHUSETTS

## PERMITTING PLANS

AUGUST 23, 2021

REVISED FEBRUARY 7, 2022

PREPARED FOR  
APPLICANT:

**NEXT GRID INC.**

PO BOX 7775  
SAN FRANCISCO, CA 94120

OWNER:

**G.M. VACHON REALTY, LLC**

957 WASHINGTON STREET  
ATTLEBORO, MA 02703

PREPARED BY  
ENGINEER:



**FUSS & O'NEILL**

108 MYRTLE STREET, SUITE 502  
QUINCY, MA 02171  
617.282.4675  
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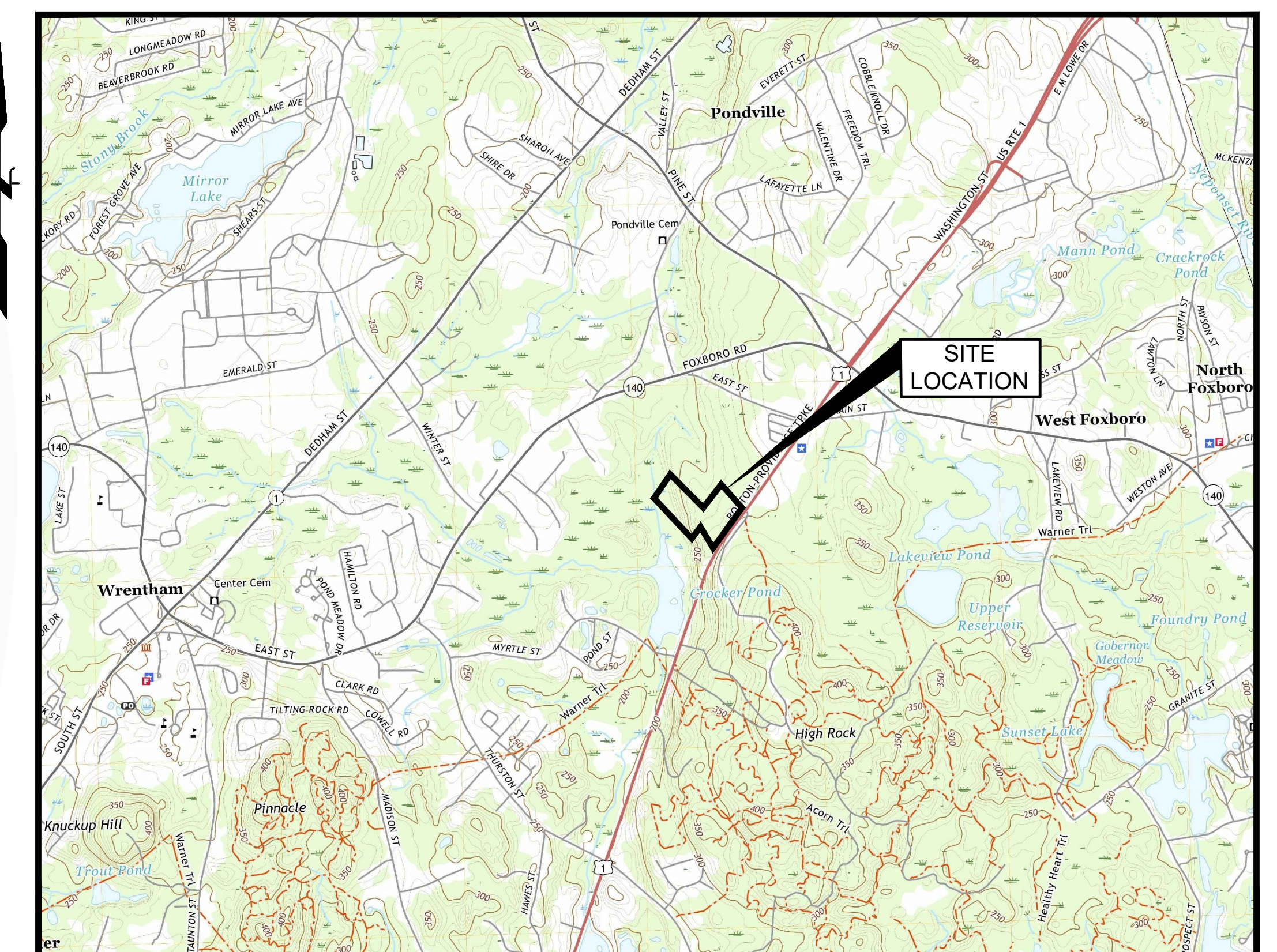
SURVEYOR:

**PETER NOLAN & ASSOCIATES**

80 JEWETT STREET UNIT 2  
NEWTON, MA 02458

### SHEET INDEX

<u>SHEET No.</u>	<u>SHEET TITLE</u>
GI-001	COVER SHEET
GI-002	GENERAL NOTES
CI-100	CONTEXT PLAN
1	EXISTING CONDITIONS
CI-200 - 201	PHASING PLAN
CP-100	OVERALL SITE PREPARATION AND EROSION & CONTROL PLAN
CP-101-103	SITE PREPARATION AND EROSION & SEDIMENT CONTROL PLAN
CS-100	OVERALL SITE LAYOUT PLAN
CS-101-103	SITE LAYOUT PLAN
CS-200	CUT AND FILL ANALYSIS PLAN
CX-301-302	SITE SECTIONS
CD-501-502	EROSION & SEDIMENT CONTROL DETAILS
CD-503-506	CONSTRUCTION DETAILS



LOCATION MAP

SCALE: 1" = 2,000'



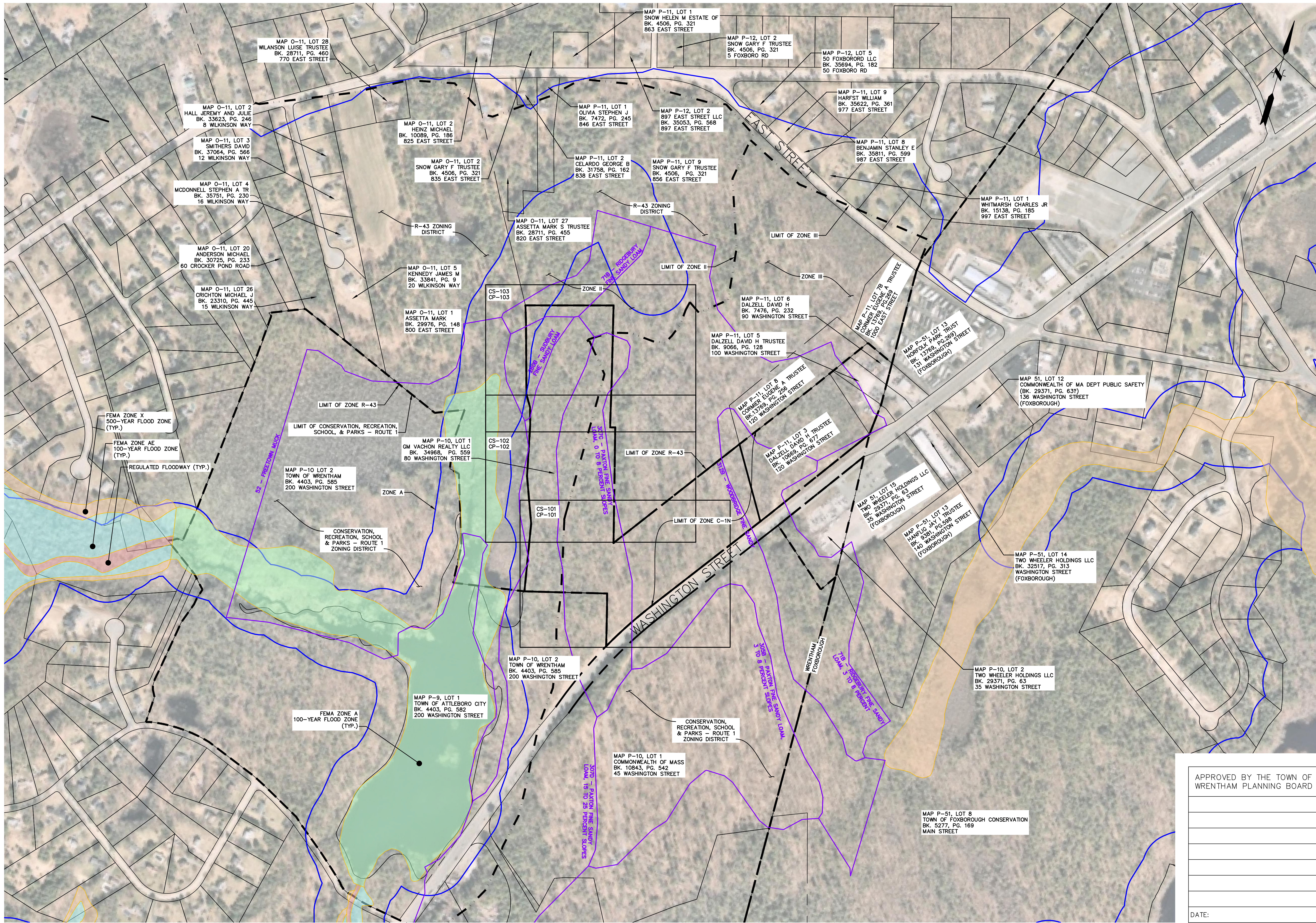
APPROVED BY THE TOWN OF  
WRENTHAM PLANNING BOARD

DATE:

PROJ. No.: 20190629.C10  
DATE: AUGUST 2021

GI-001

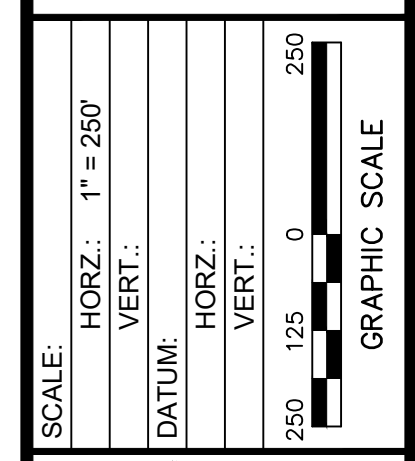




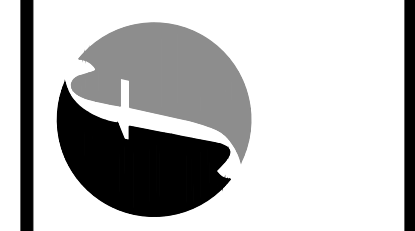
APPROVED BY THE TOWN OF  
 WRENTHAM PLANNING BOARD

DATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM
4.	1/20/2022	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM



**FUSS & O'NEILL**  
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MASSACHUSETTS  
 WRENTHAM  
 80 WASHINGTON STREET  
 CONTEXT PLAN  
 NEXTGRID INC.

PROJ. No.: 20190629.C10  
 DATE: 08/23/2021

**CI-100**

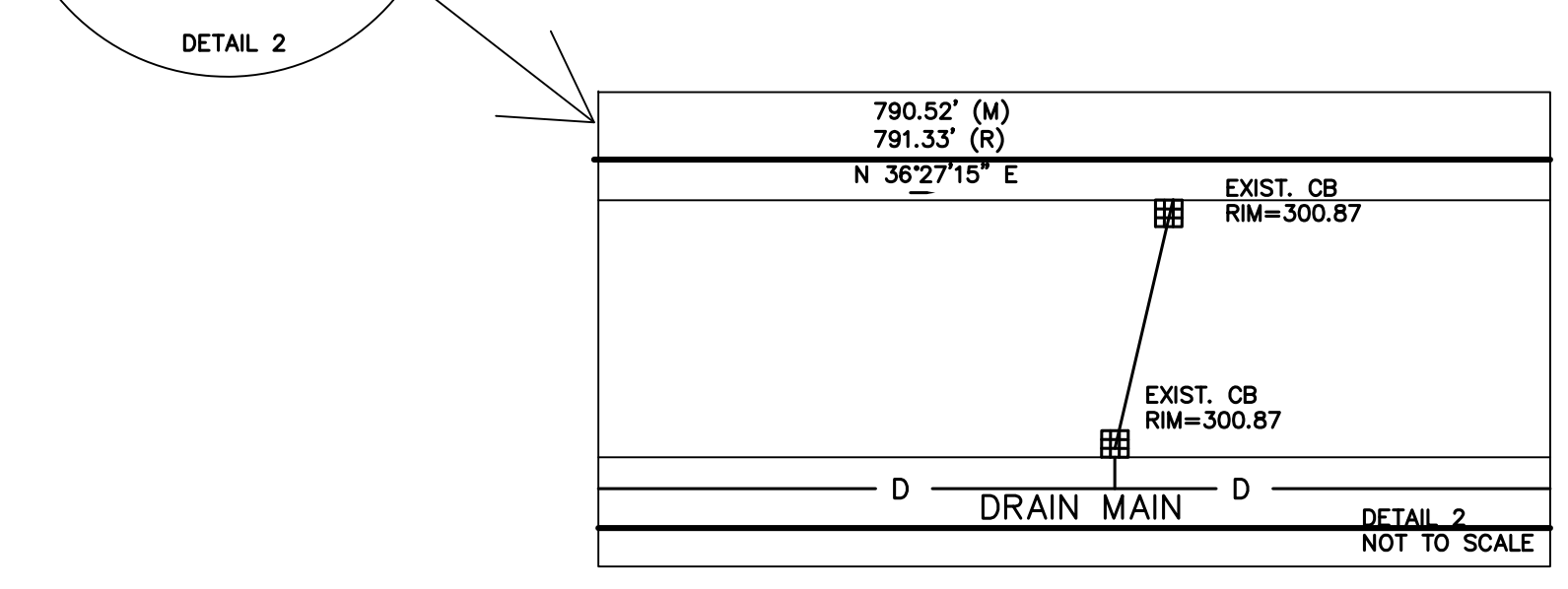
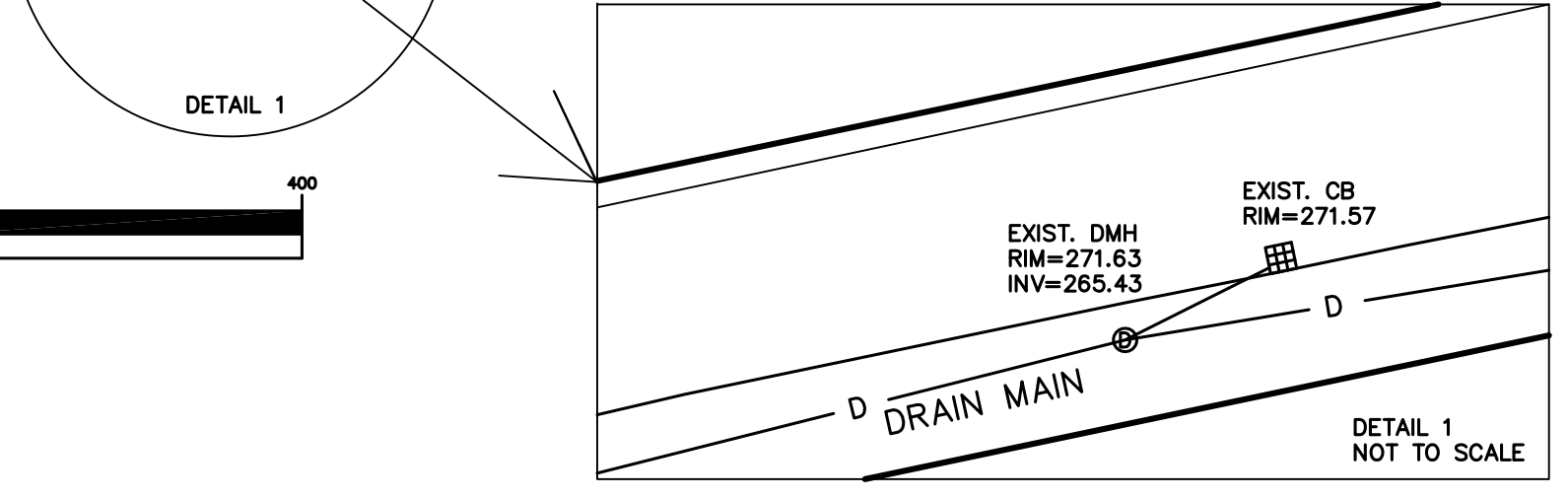
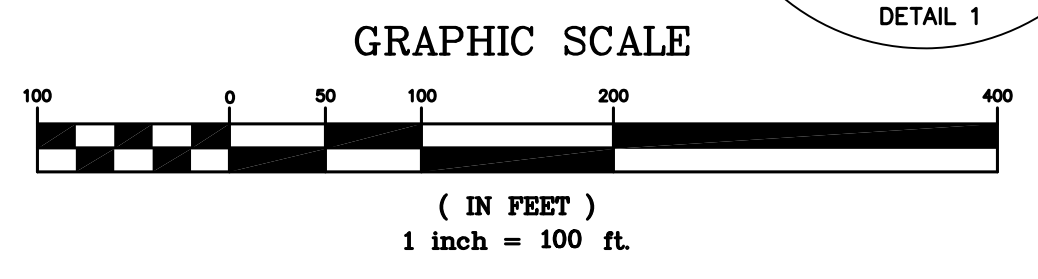
LEGEND	
□	BOUND
○	IRON PIN/PIPE
⊙	STONE POST
⊕	TREE
⊖	TREE STUMP
⊗	SHRUBS/FLOWERS
+	SIGN
●	BOLLARD
⊙	SEWER MANHOLE
⊕	DRAIN MANHOLE
⊗	CATCH BASIN
⊕	WATER MANHOLE
⊗	WATER VALVE
⊕	HYDRANT
⊗	GAS VALVE
⊕	ELECTRIC MANHOLE
⊗	ELECTRIC HANDHOLE
⊕	UTILITY POLE
⊗	LIGHT POLE
⊕	MANHOLE
X 148.00	SPOT GRADE
TW	TOP OF WALL
BW	BOTTOM OF WALL
▨	EXISTING BUILDING
▨	RETAINING WALL
▨	STONE WALL
▨	FENCE
⊕	TREE LINE
S	SEWER LINE
D	DRAIN LINE
—	WATER LINE
—	GAS LINE
—	UNDERGROUND ELECTRIC LINE
—	OVERHEAD WIRES
-145-	CONTOUR LINE (MJR)
-146-	CONTOUR LINE (MNR)



- NOTES:
1. INFORMATION SHOWN ON THIS PLAN IS THE RESULT OF A FIELD SURVEY PERFORMED BY PETER NOLAN & ASSOCIATES LLC AS OF 6/27/2021.
  2. DEED REFERENCE: BOOK 34968, PAGE 559  
PLAN 606 OF 1999  
STATE LAYOUT 2744; 2741; 993  
NORFOLK REGISTRY OF DEEDS
  3. THIS PLAN IS NOT INTENDED TO BE RECORDED.
  4. I CERTIFY THAT THE PROPERTY SHOWN IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE X, ON FLOOD HAZARD BOUNDARY MAP NUMBER 25021C0333E, IN COMMUNITY NUMBER: 250258, DATED 07/17/2012.
  5. THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT USES OF THE LAND; HOWEVER THIS NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.
  6. FIRST FLOOR ELEVATIONS ARE TAKEN AT THRESHOLD.
  7. NO RESPONSIBILITY IS TAKEN FOR ZONING TABLE AS PETER NOLAN & ASSOCIATES LLC ARE NOT ZONING EXPERTS. TABLE IS TAKEN FROM TABLE PROVIDED BY LOCAL ZONING ORDINANCE. CLIENT AND/OR ARCHITECT TO VERIFY THE ACCURACY OF ZONING ANALYSIS.
  8. THE ELEVATIONS SHOWN ARE BASED ON TOWN OF WRENTHAM DATUM.

APPROVED BY THE TOWN OF  
WRENTHAM PLANNING BOARD

DATE:



SCALE 1"=100'			
DATE 7/12/2021	REV	DATE	REVISION
SHEET 1			
PLAN NO. 1 OF 1	80 WASHINGTON STREET WRENTHAM MASSACHUSETTS		
CLIENT:	EXISTING CONDITIONS		
DRAWN BY DK			
CHKD BY P.J.N.			
APPD BY P.J.N.			
	<b>PETER NOLAN &amp; ASSOCIATES LLC</b> LAND SURVEYORS/CIVIL ENGINEERING CONSULTANTS 80 JEWETT STREET, SUITE 2 NEWTON, MA 02458 PHONE: 857 891 7478/617 782 1533 FAX: 617 202 5691 EMAIL: pnolan@pnasurveyors.com		
	SHEET NO.	<b>1</b>	

**LEGEND**

	ACTIVE CONSTRUCTION AREA
	ACTIVE LAYDOWN/STAGING AREA
	SEDIMENT TRAP FOR ACTIVE CONSTRUCTION OPERATION
	STOCKPILE AREA FOR SOIL, WOODCHIP, AND STUMP GRINDING
	PREVIOUSLY CONSTRUCTED PHASE

**CONSTRUCTION SEQUENCE**

CONSTRUCTION IS A DYNAMIC OPERATION THAT IS AFFECTED BY WEATHER AND OTHER UNANTICIPATED CONDITIONS. THEREFORE, THE LAYOUT OF EROSION AND SEDIMENT CONTROLS SHOWN ON THESE PLANS WILL LIKELY BE MODIFIED TO BEST MANAGE CHANGING FIELD CONDITIONS. THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS DATED MARCH 1997, REVISED MAY 2003, RECOGNIZE THIS. THE OWNER SHALL WORK IN CONCERT WITH THE ENGINEER, GENERAL CONTRACTOR, AND REGULATORY AGENCIES SO THAT THE INTENT OF THE GUIDELINES ARE MET UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED. THE FOLLOWING IS A GENERAL SEQUENCE OF MAJOR CONSTRUCTION OPERATIONS.

CONSTRUCTION IS ANTICIPATED TO START IN THE SPRING OF 2022 AND TAKE 6-12 MONTHS.

WHERE INDICATED BELOW, NOTIFICATION TO THE TOWN SHALL INCLUDE:

- THE CONVEYANCE AGENT
- THE TOWN'S OVERSIGHT CONTRACTOR

PRIOR TO THE START OF CONSTRUCTION, SUBMIT A DETAILED CONSTRUCTION PHASING AND LOGISTICS PLAN FOR REVIEW AND APPROVAL BY THE TOWN. AT A MINIMUM, INCLUDE A DETAILED BREAKDOWN OF THE INDIVIDUAL ACTIVITIES IN EACH PHASE ALONG WITH THE START DATE, END DATE, ANTICIPATED DURATION, AND ALL DEVICES AND MEASURES FOR EROSION PREVENTION AND SEDIMENT CONTROL. THE PLAN SHALL BE PREPARED AT A LEVEL OF DETAIL ACCEPTABLE TO THE TOWN. PROVIDE AN UPDATED PHASING AND LOGISTICS PLAN FOR APPROVAL PRIOR TO MAKING CHANGES TO THE SEQUENCE OR TIMING OF CONSTRUCTION.

CONDUCT ON-SITE MEETINGS WITH THE TOWN AND THE OWNER'S REPRESENTATIVE ON A MONTHLY BASIS UNLESS OTHERWISE AGREED TO BY ALL PARTIES. REVIEW THE SITE CONTROLS TO PREVENT EROSION AND CONTROL SEDIMENTATION, WORK COMPLETED SINCE THE LAST MEETING, WORK ANTICIPATED BEFORE THE NEXT MEETING, COMPLIANCE WITH THE TOWN APPROVALS, AND ANY OTHER INFORMATION REQUESTED BY THE TOWN.

**PHASE 1A-1C: DRAINAGE.**

1. PRIOR TO ANY ALTERATION OF THE SITE, REQUEST AN ON-SITE MEETING WITH THE TOWN AND THE OWNER'S REPRESENTATIVE. THE TOWN AND THE OWNER MAY INVITE OTHER INDIVIDUALS AS NEEDED. SIMILAR MEETINGS SHALL OCCUR AS NOTED BELOW.
2. DELINEATE LIMITS OF CLEARING, GRUBBING AND PERIMETER EROSION AND SEDIMENT CONTROLS.
3. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AROUND PROJECT LIMITS AND CONSTRUCTION ENTRANCE, AS SHOWN ON THE EROSION CONTROL AND CONSTRUCTION DETAILS PLANS IN THIS PLAN SET AND AS MODIFIED BY THE DETAILED CONSTRUCTION PHASING AND LOGISTICS PLAN.
- 3.1. INSTALL THE SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE AROUND THE ACTIVE WORK.
4. PRIOR TO ANY TREE CLEARING, REQUEST AN ON-SITE MEETING WITH THE TOWN FOR APPROVAL OF EROSION CONTROLS. DO NOT PROCEED WITH TREE CLEARING WITHOUT WRITTEN PERMISSION FROM THE TOWN.
  - 4.1. THE INSPECTION OF THE EROSION CONTROL DEVICES ADJACENT TO THE BUFFER ZONES SHALL BE DONE BY A PROFESSIONAL ENGINEER.
  - 4.2. THE ENGINEER SHALL SEND A LETTER TO THE CONVEYANCE COMMISSION ATTESTING THE EROSION CONTROLS HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND DESCRIBING ANY POTENTIAL CHANGES.
5. CLEAR AND GRUB ACTIVE CONSTRUCTION AREA, LAYDOWN/STAGING AREAS, AND STOCKPILE AREAS. DO NOT REMOVE STUMPS.
  - 5.1. CUT LARGE TREES TO LENGTH AND REMOVE FROM SITE. LOGS SHALL BE BROUGHT TO THE DESIGNATED LAYDOWN AREA USING LAND CLEARING EQUIPMENT AND LOADED ONTO TRUCKS. THE USE OF INTERMEDIATE LANDING AREAS IS NOT ALLOWED. TRUCKS SHALL BE STAGED ON THE PROJECT SITE.
  - 5.2. CHIP BRUSH AND BRANCHES AND STOCKPILE FOR FUTURE USE.
  - 5.3. STABILIZE RUTS OR DISTURBED SOILS AT THE END OF EACH WORK DAY. ADJUST THE LOCATIONS OF HAUL ROADS TO AREAS THAT RESULT IN LESS RUTTING AND SOIL DISTURBANCE.
6. BEGIN GENERAL EARTHWORK.
  - 6.1. REMOVES STUMPS FROM GRUBBING AREAS. GRIND STUMPS AND STOCKPILE FOR FUTURE USE.
  - 6.2. STRIP AND STOCKPILE TOPSOIL IN THE ACTIVE SOIL STOCKPILE AREA FOR THE RESPECTIVE PHASE. TEMPORARILY SEED STOCKPILE TO ACCOMMODATE CHANGING CONSTRUCTION CONDITIONS AND PREVENT EROSION. SEE EROSION AND SEDIMENT CONTROL NOTES ON SHEET GI-002 FOR STABILIZATION REQUIREMENTS.
  - 6.3. ROUGH GRADE AND TEMPORARILY STABILIZE AREAS TO ACCOMMODATE CHANGING CONSTRUCTION CONDITIONS AND PREVENT EROSION.
    - 6.3.1. SCHEDULE EARTHWORK ACTIVITIES SO THAT SUBGRADE IS ACHIEVED AS SOON AS POSSIBLE.
    - 6.3.2. RE-Spread TOPSOIL AND SEED AREAS THAT HAVE ACHIEVED FINAL SUBGRADE AT THE MINIMUM OF ONCE PER WEEK.
  - 6.4. INSTALL STORMWATER INFRASTRUCTURE (E.G. OUTLET CONTROL STRUCTURES, PIPES, LEVEL SPREADERS, ETC).
  - 6.5. CONSTRUCT GRAVEL ACCESS ROADS.
  - 6.6. ONCE AREAS HAVE REACHED SUB-GRADE, RE-SPREAD TOPSOIL AND STABILIZE AREAS THAT HAVE REACHED FINAL GRADE. OVERSEED AREAS THAT WERE CLEARED BUT NOT GRUBBED.
7. MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION TO ACCOMMODATE CHANGING CONSTRUCTION CONDITIONS, AS SHOWN ON THE EROSION CONTROL AND CONSTRUCTION DETAILS PLANS IN THIS PLAN SET AND AS MODIFIED BY THE DETAILED CONSTRUCTION PHASING AND LOGISTICS PLAN.
8. DO NOT PROCEED WITH NEXT SUB-PHASE UNTIL CURRENT PHASE HAS BEEN STABILIZED (I.E. DO NOT START PHASE 1B UNTIL PHASE 1A HAS BEEN STABILIZED).

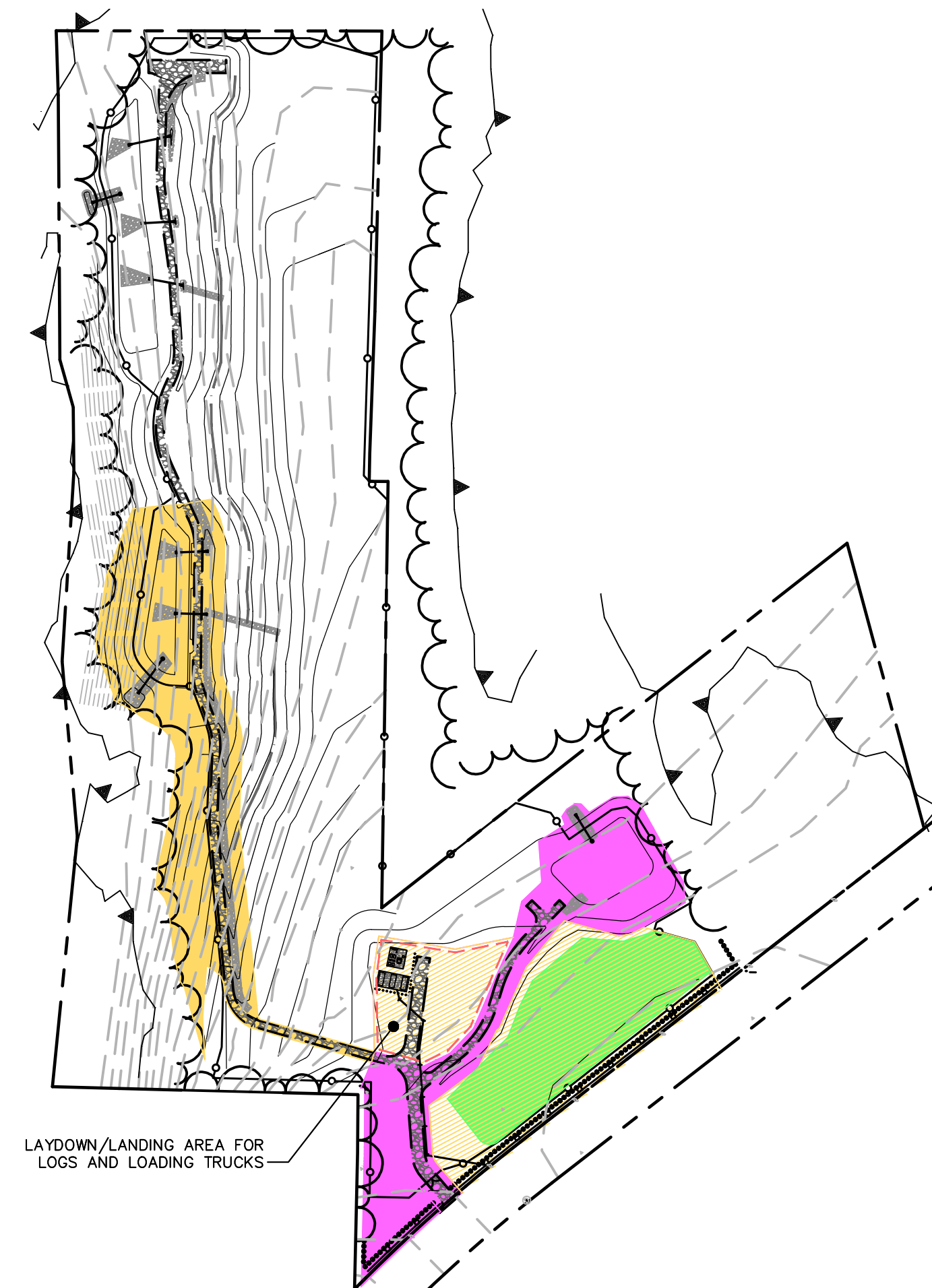
**PHASE 2A-2C: ARRAY FIELD EARTHWORK**

1. DELINEATE LIMITS OF CLEARING, GRUBBING, AND PERIMETER EROSION AND SEDIMENT CONTROLS.
2. INSTALL EROSION AND SEDIMENT CONTROLS, AS SHOWN ON THE EROSION CONTROL AND CONSTRUCTION DETAILS PLANS IN THIS PLAN SET AND AS MODIFIED BY THE DETAILED CONSTRUCTION PHASING AND LOGISTICS PLAN.
  - 2.1. INSTALL THE SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE AROUND THE ACTIVE WORK.
3. CLEAR AND GRUB THE ACTIVE CONSTRUCTION AREAS. DO NOT REMOVE STUMPS.
  - 3.1. CUT LARGE TREES TO LENGTH AND REMOVE FROM SITE. LOGS SHALL BE BROUGHT TO THE DESIGNATED LAYDOWN AREA USING LAND CLEARING EQUIPMENT AND LOADED ONTO TRUCKS. THE USE OF INTERMEDIATE LANDING AREAS IS NOT ALLOWED. TRUCKS SHALL BE STAGED ON THE PROJECT SITE.
  - 3.2. CHIP BRUSH AND BRANCHES AND STOCKPILE FOR FUTURE USE.
  - 3.3. STABILIZE RUTS OR DISTURBED SOILS AT THE END OF EACH WORK DAY. ADJUST THE LOCATIONS OF HAUL ROADS TO AREAS THAT RESULT IN LESS RUTTING AND SOIL DISTURBANCE.
4. BEGIN GENERAL EARTHWORK.
  - 4.1. RELOCATE TEMPORARY STOCKPILES OF WOOD CHIPS AND STUMP GRINDING OUTSIDE OF ACTIVE CONSTRUCTION AREA. REMOVE STUMPS FROM GRUBBING AREAS. GRIND STUMPS AND STOCKPILE FOR FUTURE USE.
  - 4.2. STRIP AND STOCKPILE TOPSOIL IN THE ACTIVE SOIL STOCKPILE AREA FOR THE RESPECTIVE PHASE. TEMPORARILY SEED STOCKPILE TO ACCOMMODATE CHANGING CONSTRUCTION CONDITIONS AND PREVENT EROSION. SEE EROSION AND SEDIMENT CONTROL NOTES ON SHEET GI-002 FOR STABILIZATION REQUIREMENTS.
  - 4.3. ROUGH GRADE AND TEMPORARILY STABILIZE AREAS TO ACCOMMODATE CHANGING CONSTRUCTION CONDITIONS AND PREVENT EROSION.
    - 4.3.1. SCHEDULE EARTHWORK ACTIVITIES SO THAT SUBGRADE IS ACHIEVED AS SOON AS POSSIBLE.
    - 4.3.2. RE-SPREAD TOPSOIL AND SEED AREAS THAT HAVE ACHIEVED FINAL SUBGRADE AT A MINIMUM OF ONCE PER WEEK.
  - 4.4. INSTALL STORMWATER INFRASTRUCTURE (E.G. DRAINAGE CHANNELS AND SIDESLOPE CHANNELS).
  - 4.5. ONCE AREAS HAVE REACHED SUB-GRADE, RE-SPREAD TOPSOIL AND STABILIZE AREAS THAT HAVE REACHED FINAL GRADE. OVERSEED AREAS THAT WERE CLEARED BUT NOT GRUBBED.
  - 4.6. ADJUST TEMPORARY EROSION AND SEDIMENT TRAP ELEVATIONS, LOCATIONS, AND DISCHARGE POINTS TO ACCOMMODATE CHANGING CONSTRUCTION CONDITIONS AND ENSURE THAT DISTURBED AREAS DRAIN TO A TEMPORARY SEDIMENT TRAP.
5. MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION TO ACCOMMODATE CHANGING CONSTRUCTION CONDITIONS, AS SHOWN ON THE EROSION CONTROL AND CONSTRUCTION DETAILS PLANS IN THIS PLAN SET AND AS MODIFIED BY THE DETAILED CONSTRUCTION PHASING AND LOGISTICS PLAN.
6. DO NOT PROCEED WITH NEXT SUB-PHASE UNTIL CURRENT PHASE HAS BEEN STABILIZED (I.E. DO NOT START PHASE 2B UNTIL PHASE 2A HAS BEEN STABILIZED).

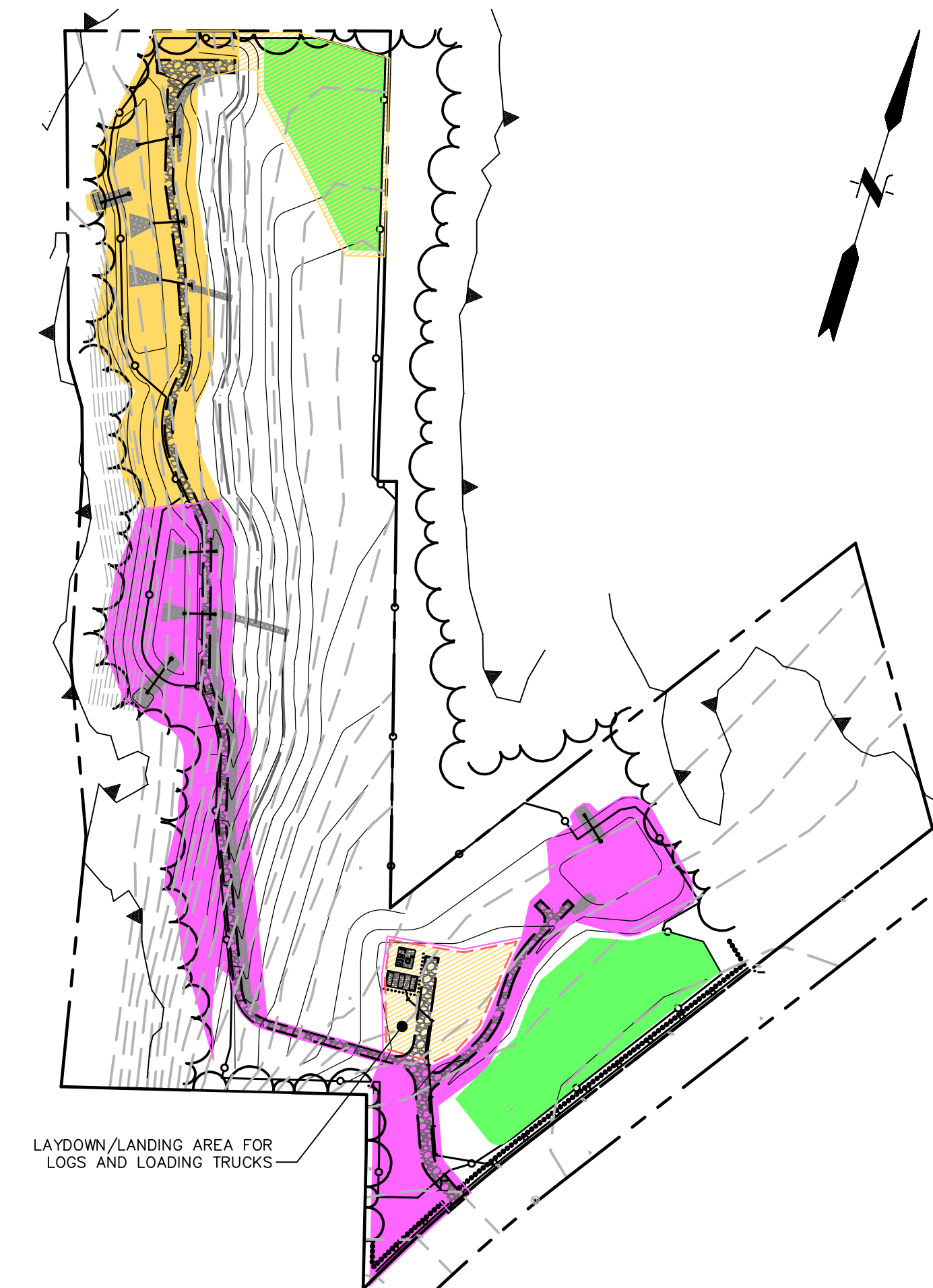
PHASE	ACTIVE CONSTRUCTION AREA	ACTIVE LAYDOWN/STAGING AREA
1A	1.9 ACRES	2.6 ACRES
1B	2.6 ACRES	2.6 ACRES
1C	2.4 ACRES	1.8 ACRES
2A	4.6 ACRES	1.2 ACRES
2B	4.3 ACRES	1.8 ACRES
2C	4.5 ACRES	0.6 ACRES



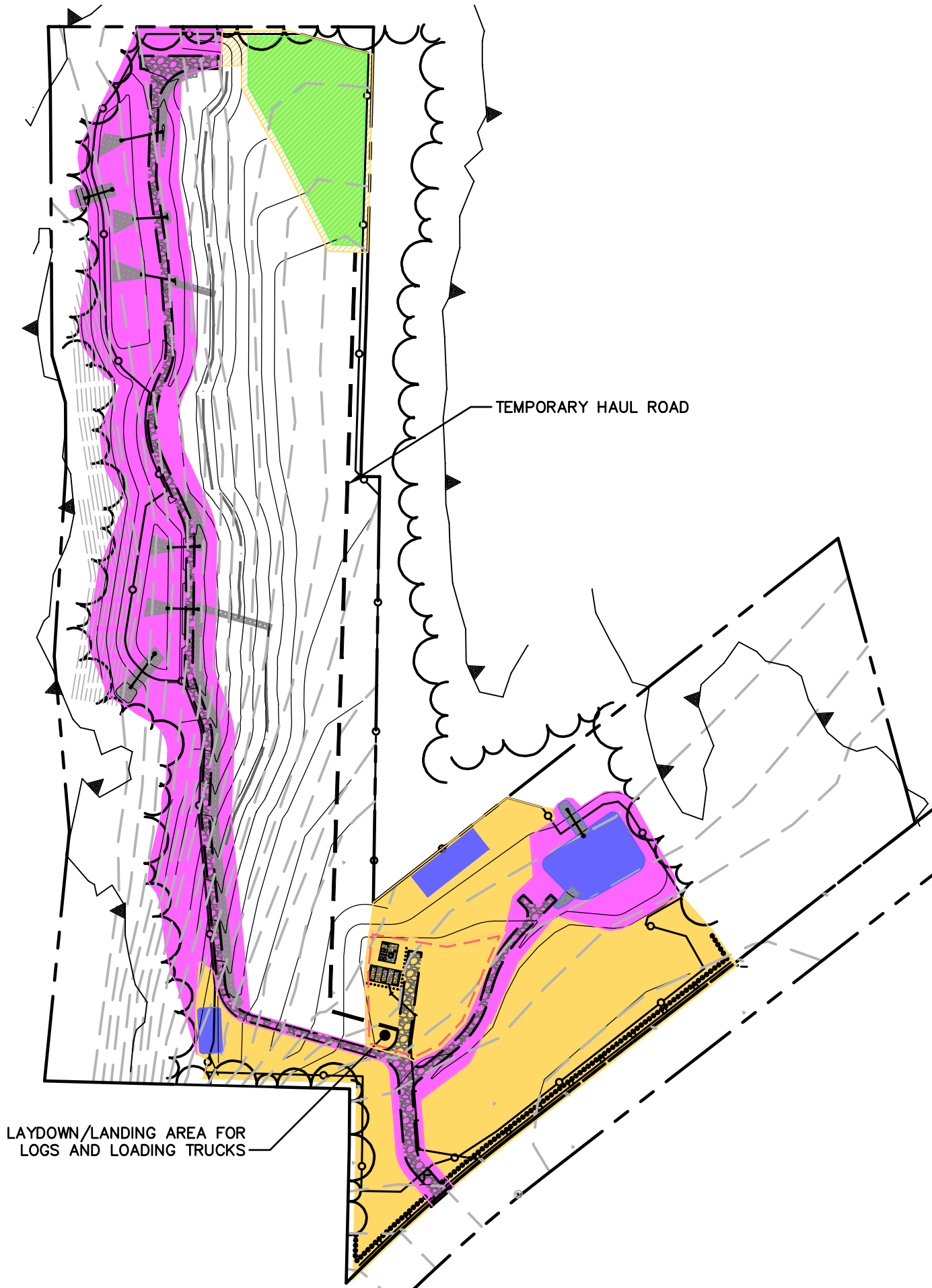
PHASE 1A



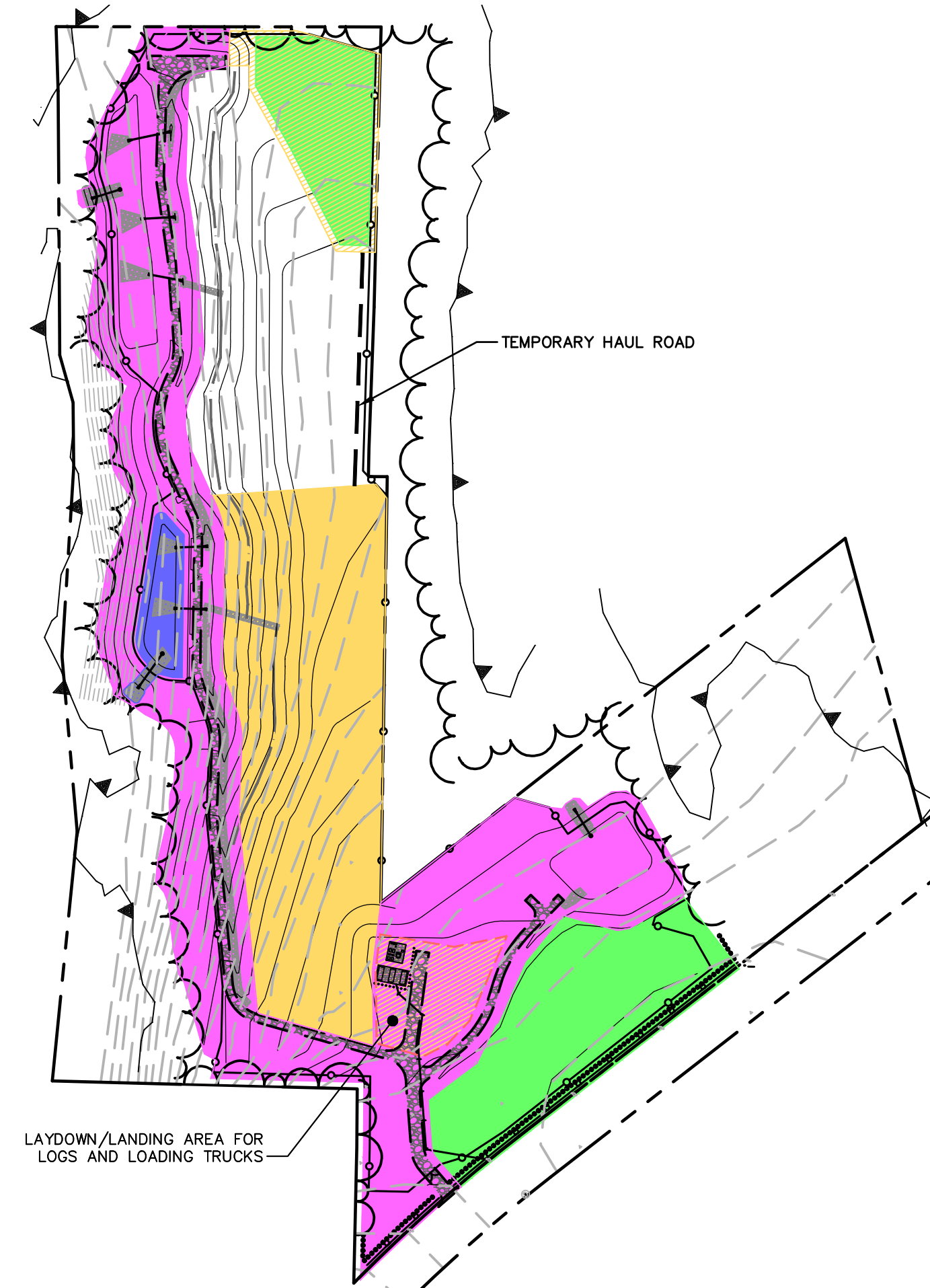
PHASE 1B



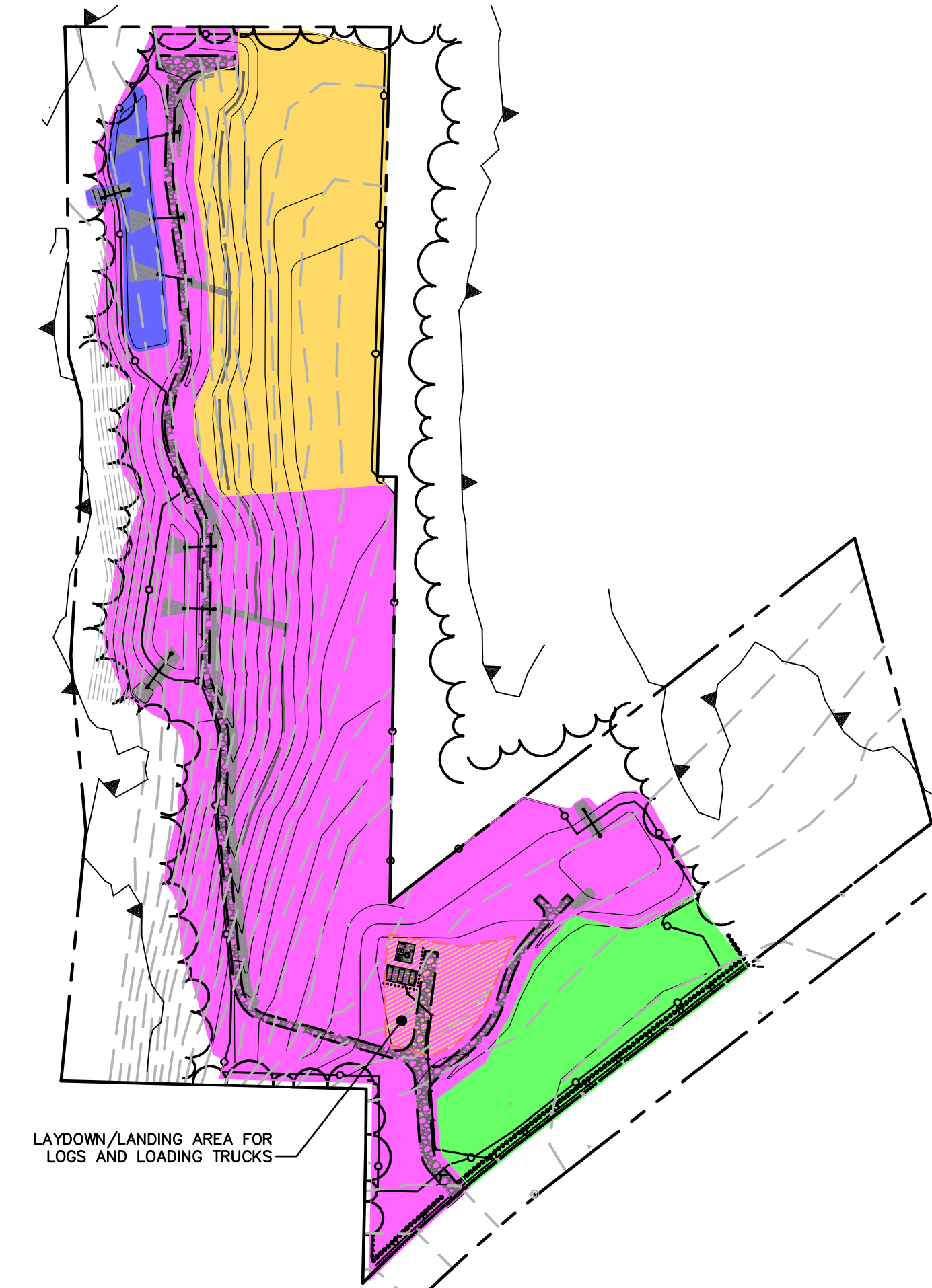
PHASE 1C



PHASE 2A



PHASE 2B



PHASE 2C

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
4.	1/20/2022	REVISED PER TOWN COMMENTS	JHD	KCM
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM



SCALE: HORIZ.: 1" = 200'

VERT.: 1" = 200'

DATE: 2/8/2022

GRAPHIC SCALE






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 108 MYRTLE STREET, SUITE 502  
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 www.fuss.com

NEXTGRID INC.  
 PHASING PLAN  
 80 WASHINGTON STREET  
 WRENTHAM, MASSACHUSETTS

PROJ. No.: 20190629.C10  
 DATE: 08/23/2021

**CI-200**

**LEGEND**

	ACTIVE CONSTRUCTION AREA
	ACTIVE LAYDOWN/STAGING AREA
	SEDIMENT TRAP FOR ACTIVE CONSTRUCTION
	STOCKPILE AREA FOR SOIL, WOODCHIP, AND STUMP GRINDING
	PREVIOUSLY CONSTRUCTED PHASE

**CONSTRUCTION SEQUENCE (CONTINUED)**

**PHASE 3: SELECTIVE CLEARING**

1. DELINEATE LIMITS OF SELECTIVE CLEARING.
  - 1.1. PRIOR TO THE START OF CLEARING, PERFORM A SITE WALK OF THE AREA AND FLAG ANY TREES THAT ARE LESS THAN 15 FEET IN HEIGHT TO REMAIN.
2. INSTALL EROSION AND SEDIMENT CONTROLS, AS SHOWN ON THE EROSION CONTROL AND CONSTRUCTION DETAILS PLANS IN THIS PLAN SET AND AS MODIFIED BY THE DETAILED CONSTRUCTION PHASING AND LOGISTICS PLAN.
  - 2.1. INSTALL THE SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE AROUND THE ACTIVE WORK.
3. PERFORM SELECTIVE CLEARING. DO NOT REMOVE STUMPS.
  - 3.1. PERFORM SELECTIVE CLEARING OPERATIONS SO THAT EQUIPMENT AVOIDS THE AREAS BELOW THE DRIP LINES OF TREES TO REMAIN.
  - 3.2. CUT LARGE TREES TO LENGTH AND REMOVE FROM SITE. LOGS SHALL BE BROUGHT TO THE DESIGNATED LAYDOWN AREA USING LAND CLEARING EQUIPMENT AND LOADED ONTO TRUCKS. THE USE OF INTERMEDIATE LANDING AREAS IS NOT ALLOWED. TRUCKS SHALL BE STAGED ON THE PROJECT SITE.
  - 3.3. CHIP BRUSH AND BRANCHES AND STOCKPILE IN THE LAYDOWN/STAGING AREAS FOR FUTURE USE.
  - 3.4. STABILIZE RUTS OR DISTURBED SOILS AT THE END OF EACH WORK DAY. ADJUST THE LOCATIONS OF HAUL ROADS TO AREAS THAT RESULT IN LESS RUTTING AND SOIL DISTURBANCE.
4. MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION, AS SHOWN ON THE EROSION CONTROL AND CONSTRUCTION DETAILS PLANS IN THIS PLAN SET AND AS MODIFIED BY THE DETAILED CONSTRUCTION PHASING AND LOGISTICS PLAN.
5. DO NOT PROCEED WITH THE NEXT PHASE UNTIL THE CURRENT PHASE HAS BEEN STABILIZED.

**PHASE 4: ARRAY INSTALLATION**

1. INSTALL EROSION AND SEDIMENT CONTROLS, AS SHOWN ON THE EROSION CONTROL AND CONSTRUCTION DETAILS PLANS IN THIS PLAN SET AND AS MODIFIED BY THE DETAILED CONSTRUCTION PHASING AND LOGISTICS PLAN.
2. PERFORM MINOR INCIDENTAL TRENCHING AND EXCAVATION TO CONSTRUCT UNDERGROUND UTILITIES, INVERTER PADS, AND UTILITY POLES.
  - 2.1. RE-Spread TOPSOIL AND STABILIZE DISTURBED AREAS ONCE BACKFILLED.
3. INSTALL REMAINING SITE FEATURES (E.G. PERIMETER FENCING, FOUNDATION SYSTEMS (ANCHORS) FOR SOLAR RACKING SYSTEM, GATES, SOLAR ARRAY TABLES, ETC.).
  - 3.1. ADJUST TEMPORARY DIVERSION AND SEDIMENT TRAP ELEVATIONS, LOCATIONS, AND DISCHARGE POINTS TO ACCOMMODATE CHANGING CONSTRUCTION CONDITIONS AND PREVENT EROSION AND ENSURE THAT DISTURBED AREAS DRAIN TO A TEMPORARY SEDIMENT TRAP.
4. MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION TO ACCOMMODATE CHANGING CONSTRUCTION CONDITIONS, AS SHOWN ON THE EROSION CONTROL AND CONSTRUCTION DETAILS PLANS IN THIS PLAN SET AND AS MODIFIED BY THE DETAILED CONSTRUCTION PHASING AND LOGISTICS PLAN.

**PHASE 5: FINAL CLEANUP/RESTORATION**

1. REMOVE SEDIMENT AND REPAIR ERODED AREAS WITH TOPSOIL AND SEED.
  - 1.1. REMOVE ACCUMULATED SEDIMENT FROM TEMPORARY SEDIMENT TRAPS. RE-EXCAVATE TO PROPER ELEVATIONS. RESTORE DISTURBED AREAS.
  - 1.2. REMOVE TEMPORARY SEDIMENT TRAPS AND DIVERSIONS ONLY AFTER ENTIRE UPSTREAM AREA IS PERMANENTLY STABILIZED.
2. REMOVE CONSTRUCTION DEBRIS, MATERIALS, AND EQUIPMENT.
3. COMPLETE AS-BUILT SURVEY.
4. RESTORE STAGING AREA WITH TOPSOIL AND SEED.
5. COMPOST FILTER SOCKS SHALL REMAIN IN PLACE AFTER CONSTRUCTION. REMOVE ALL OTHER EROSION AND SEDIMENT CONTROLS ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED.
6. MAINTAIN VEGETATED AREAS.

PHASE	ACTIVE CONSTRUCTION AREA	ACTIVE LAYDOWN/STAGING AREA
3	3.3 ACRES	2.7 ACRES
4	<1 ACRE	2.7 ACRES

NOTE: EACH ROW IN THE ABOVE TABLE DENOTES AN INDIVIDUAL PHASE. INDIVIDUAL PHASE SHALL BE COMPLETED AND STABILIZED BEFORE PROCEEDING WITH THE PHASE.

**PREPARATION FOR EXTREME WEATHER EVENTS**

EXTREME WEATHER EVENTS (E.G., INCREASED PRECIPITATION, INTENSE WINDS, ETC.) HAVE THE POTENTIAL TO RESULT IN SEVERE EROSION DURING CONSTRUCTION. WORK IN CONCERT WITH THE OWNER, ENGINEER, AND REGULATORY AGENCIES TO PREPARE THE SITE FOR EXTREME WEATHER EVENTS. TAKE EXTRA CAUTION TO ENSURE THE SAFETY OF PERSONNEL DURING AND AFTER THE STORM EVENT.

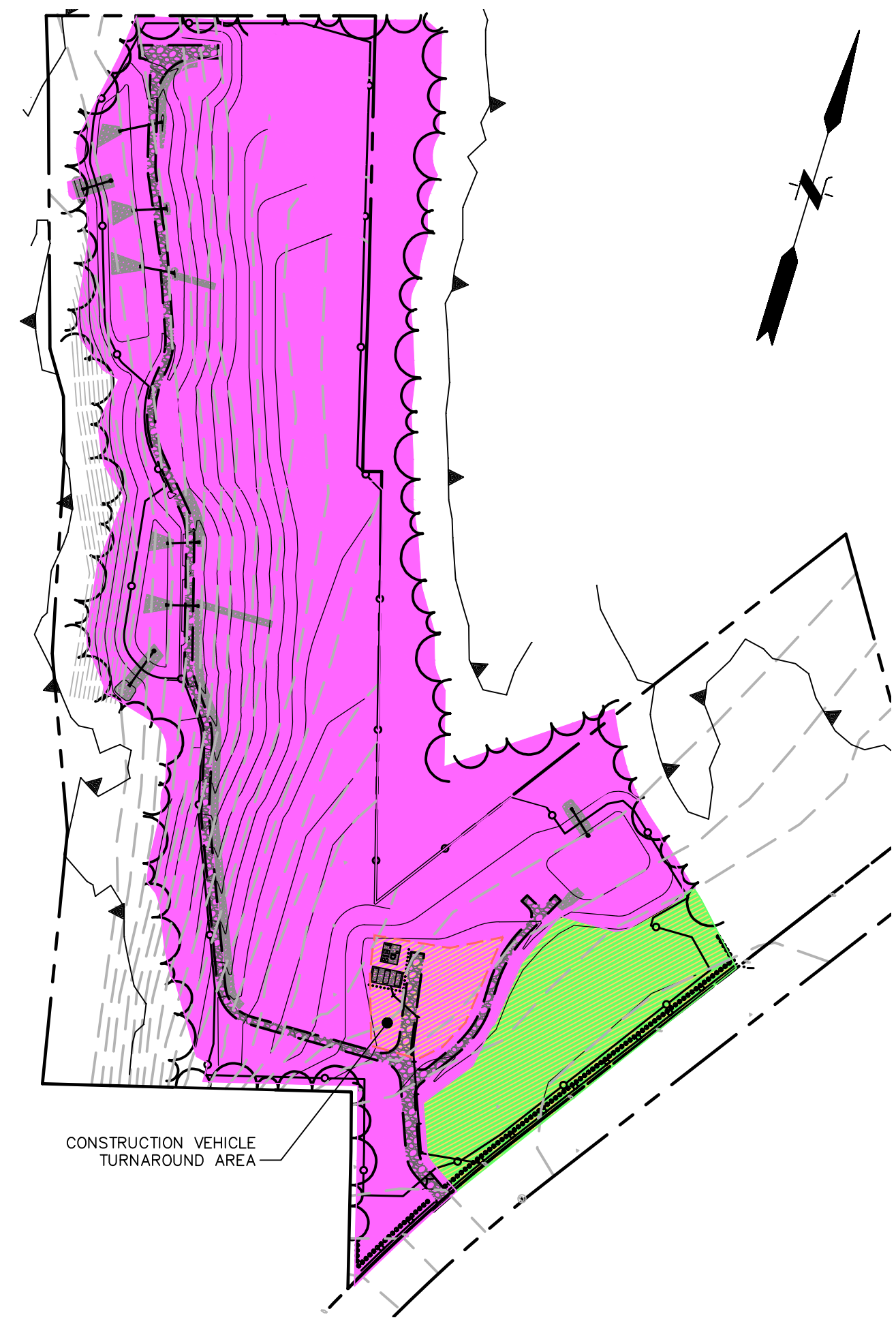
THE FOLLOWING IS INTENDED TO BE A LIST OF GENERAL PRELIMINARY RECOMMENDATIONS TO PREPARE FOR EXTREME WEATHER EVENTS, AND DO NOT CONTEMPLATE EVERY SPECIFIC SCENARIO THAT MAY BE ENCOUNTERED THROUGHOUT THE LIFE OF THE PROJECT. BE RESPONSIBLE FOR CONTROLLING EROSION BASED ON THE SPECIFIC MEANS AND METHODS OF CONSTRUCTION AND THE SPECIFIC WEATHER EVENTS THAT MAY OCCUR. ADDITIONAL SITE SPECIFIC REQUIREMENTS WILL LIKELY BE REQUIRED TO ADAPT TO CHANGING SITE CONDITIONS AND WEATHER EVENTS.

WHERE INDICATED BELOW, NOTIFICATION TO THE TOWN SHALL INCLUDE:

- THE CONSERVATION AGENT
  - THE TOWN'S OVERSIGHT CONTRACTOR
1. PRIOR TO THE START OF CONSTRUCTION, SUBMIT A DETAILED PLAN FOR PREPARATION FOR EXTREME WEATHER EVENTS FOR REVIEW AND APPROVAL BY THE TOWN. THE PLAN SHALL BE PREPARED TO A LEVEL OF DETAIL ACCEPTABLE TO THE TOWN.
  2. MONITOR THE EXTENDED WEATHER FORECAST FOR THE DURATION OF THE PROJECT FOR STORM EVENTS THAT ARE FORECASTED TO GENERATE MORE THAN 1 INCH OF PRECIPITATION OVER A 24-HOUR PERIOD. INFORM THE TOWN AT LEAST 5 DAYS AHEAD OF THE ANTICIPATED EXTREME WEATHER EVENT. EXTREME WEATHER EVENTS SHALL INCLUDE:
    - 2.1. RAIN EVENTS THAT ARE FORECASTED TO RESULT IN:
      - 2.1.1. MORE THAN 3 INCHES OF PRECIPITATION IN A 24-HOUR PERIOD.
      - 2.1.2. A PRECIPITATION RATE OF 1 INCH PER HOUR OR GREATER AT ANY TIME.
      - 2.1.3. MORE THAN 1 INCH OF PRECIPITATION WITHIN A 24-HOUR PERIOD WITH A STANDING SNOW PACK GREATER THAN 6 INCHES.
    - 2.2. FLOODING FROM OFF-SITE AREAS ONTO OR ADJACENT TO THE SITE.
  3. STOP WORK AND BEGIN PREPARATION FOR THE STORM EVENT TO ALLOW ENOUGH TIME TO PREPARE THE SITE.
    - 3.1. BEGIN PREPARATIONS FOR THE STORM SO THAT THE SITE IS COMPLETELY PREPARED NO LATER THAN 12 HOURS PRIOR TO THE ANTICIPATED START OF THE EXTREME WEATHER EVENT.
      - 3.1.1. PREPARATION SHALL BEGIN NO LATER THAN 24 HOURS PRIOR TO THE ANTICIPATED START OF THE EXTREME WEATHER EVENT.
    - 3.2. ALLOW THE TOWN TO INSPECT THE SITE PRIOR TO THE EXTREME WEATHER EVENT. CORRECT ANY DEFICIENCIES IMMEDIATELY.
  4. AT A MINIMUM WE RECOMMEND THE FOLLOWING PRECAUTIONS:
    - 4.1. INSPECT ALL EROSION CONTROLS AND REMOVE ACCUMULATED SEDIMENT SO THAT EACH CONTROL MEASURE HAS THE MAXIMUM AVAILABLE STORAGE CAPACITY.
    - 4.2. TEMPORARY GRADE DISTURBED AREAS TO A SMOOTH SURFACE TO REDUCE THE RISK OF CONCENTRATED FLOWS. DEPLOY TEMPORARY STABILIZATION MEASURES (E.G., 2 INCHES OF MULCH, TEMPORARY JUTE NETS, ETC.) TO ALL DISTURBED AREAS.
    - 4.3. COVER SOIL STOCKPILES THAT ARE NOT STABILIZED WITH PLASTIC SHEETING (MINIMUM THICKNESS OF 5 MILS). SECURE SHEETING BY PLACING HEAVY OBJECTS (E.G., BOULDERS, SAND BAGS, ETC.) SO THAT THE SHEETING WILL BE SECURE FOR THE DURATION OF THE RAIN EVENT. OVERLAP THE SHEETING BY A MINIMUM OF 4 FEET SO THAT RUNOFF DOES NOT RUN UNDERNEATH THE SHEETING.
    - 4.4. DEPLOY ADDITIONAL CONTROLS THROUGHOUT THE SITE BASED ON ACTUAL FIELD CONDITIONS.
  5. MONITOR WEATHER DURING THE STORM EVENT. INSPECT THE SITE WITHIN 12 HOURS OF THE END OF THE EXTREME WEATHER EVENT OR AS SOON AS IT IS SAFE TO DO SO, WHICHEVER IS SOONER.
    - 5.1. INSPECT THE SITE TO DETERMINE IF EROSION HAS OCCURRED.
    - 5.2. IF ANY SEDIMENT HAS LEFT THE SITE, INFORM THE TOWN IMMEDIATELY.
      - 5.2.1. WORK WITH THE TOWN TO REMOVE THE SEDIMENT AND REPAIR THE EROSION CONTROLS PRIOR TO RESUMING NORMAL CONSTRUCTION OPERATIONS.
    - 5.3. REPAIR DAMAGED EROSION CONTROLS IMMEDIATELY.
  6. PREPARE A SUMMARY REPORT FOR EACH EXTREME WEATHER EVENT. AT A MINIMUM, NOTE THE FOLLOWING:
    - 6.1. AREA OF THE SITE THAT WAS DISTURBED PRIOR TO THE EXTREME WEATHER EVENT.
    - 6.2. DETAILED DESCRIPTION OF THE ADDITIONAL CONTROLS THAT WERE DEPLOYED.
      - 6.2.1. INCLUDE DETAILED PICTURES OF THE PREPARED SITE.
    - 6.3. AMOUNT OF TIME REQUIRED TO DEPLOY THE ADDITIONAL CONTROLS.
    - 6.4. ANTICIPATED START, DURATION, AND INTENSITY OF THE EXTREME WEATHER EVENT.
    - 6.5. ACTUAL START, DURATION, AND INTENSITY OF THE EXTREME WEATHER EVENT BASED ON THE NEAREST WEATHER STATION.
    - 6.6. DETAILED DESCRIPTION OF THE EFFECTIVENESS OF THE CONTROLS.
      - 6.6.1. INCLUDE DETAILED PICTURES OF THE SITE AFTER THE EXTREME WEATHER EVENT PRIOR TO REMOVAL OF ANY CONTROLS.
    - 6.7. FOR ANY DEFICIENCIES THAT WERE OBSERVED, INDICATE ADDITIONAL MEASURES THAT WILL BE TAKEN TO BETTER ADDRESS THE ISSUES DURING THE NEXT EXTREME WEATHER EVENT.
    - 6.8. SUBMIT A COPY OF THE SUMMARY REPORT TO THE CONSERVATION AGENT AND OVERSIGHT CONTRACTOR WITHIN 1 WEEK OF THE END OF THE EXTREME WEATHER EVENT.




PHASE 3



PHASE 4

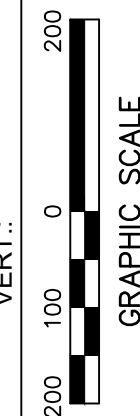
No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
4.	1/20/2022	REVISED PER TOWN COMMENTS	JHD	KCM
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM



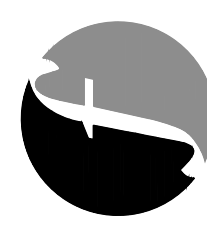
2/8/2022

SCALE: HORIZ.: 1" = 200'

VERT.: 1" = 20'



GRAPHIC SCALE



**FUSS & O'NEILL**  
 108 MYRTLE STREET, SUITE 502  
 WRENTHAM, MA 01971  
 (517) 285-4675  
[www.fuss.com](http://www.fuss.com)

WRENTHAM  
 80 WASHINGTON STREET  
 PHASING PLAN  
 NEXTGRID INC.

MASSACHUSETTS

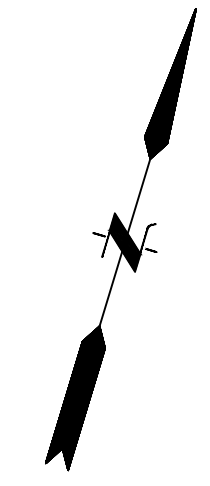
PROJ. No.: 20190629.C10  
 DATE: 08/23/2021

**CI-201**



**LEGEND**

- PROPERTY LINE
- ZONE A LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING FEMA LIDAR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING OVERHEAD ELECTRIC
- EXISTING STORM DRAIN
- EXISTING HORIZONTAL CONTROL STATION
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING MANHOLE
- EXISTING STONE WALL
- WETLAND BOUNDARY
- WETLAND BUFFER
- LIMIT OF WORK
- MAJOR CONTOUR
- MINOR CONTOUR
- STORM DRAIN (SEE DETAIL SHEETS)
- CHAIN LINK FENCE (SEE DETAIL SHEETS)
- TREE LINE
- TEST PIT LOCATION
- OUTLET CONTROL STRUCTURE (SEE DETAIL SHEETS)
- CULVERT END (SEE DETAIL SHEETS)
- TEMPORARY SEDIMENT TRAP (SEE DETAIL SHEETS)
- SILT FENCE (SEE DETAIL SHEETS)
- COMPOST FILTER SOCK (SEE DETAIL SHEETS)
- SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE (SEE DETAIL SHEETS)
- SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE (SEE DETAIL SHEETS)
- STOCKPILE AREA (SEE DETAIL SHEETS)
- INLET PROTECTION (SEE DETAIL SHEETS)
- SITE CLEARING ZONES - CLEARING AND GRUBBING
- SITE CLEARING ZONES - CLEARING
- SITE CLEARING ZONES - SELECTIVE CLEARING
- EROSION CONTROL BLANKET (SEE DETAIL SHEETS)
- COMPOST FILTER SOCK CHECK DAM (SEE DETAIL SHEETS)
- DIRECTION OF FLOW



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.	10/9/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
4.	1/20/2022	REVISED PER TOWN COMMENTS	JHD	KCM
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM



SCALE: HORIZ.: 1" = 100'

DATUM: \_\_\_\_\_

HORIZ.: \_\_\_\_\_

VERT.: \_\_\_\_\_

GRAPHIC SCALE: 0 50 100

**FUSS & O'NEILL**  
 108 MYRTLE STREET, SUITE 502  
 WRENTHAM, MA 01971  
 (508) 283-4673  
 www.fuss.com

NEXTGRID INC.  
**OVERALL SITE PREPARATION AND  
 EROSION & SEDIMENT CONTROL PLAN**  
 80 WASHINGTON STREET  
 WRENTHAM MASSACHUSETTS

APPROVED BY THE TOWN OF  
 WRENTHAM PLANNING BOARD

DATE: \_\_\_\_\_

PROJ. No.: 20190629.C10  
 DATE: 08/23/2021  
**CP-100**

SEE SHEET CP-102



PHASE 2A TEMPORARY SEDIMENT TRAP (DETENTION BASIN 20PA)  
DRAINAGE AREA TO TRAP=2.0 AC  
STORAGE VOLUME REQUIRED=2.0 AC x 5,000 CF/AC=10,000 CF  
STORAGE VOLUME PROVIDED=40,965 CF

PHASE 2A TEMPORARY SEDIMENT TRAP  
DRAINAGE AREA TO TRAP=0.8 AC  
STORAGE VOLUME REQUIRED=0.8 AC x 5,000 CF/AC=4,000 CF  
STORAGE VOLUME PROVIDED=4,882 CF  
Lt=70'  
Lb=52'  
Wt=35'  
Wb=17'  
D=3'  
S=3'

PHASE 2A TEMPORARY SEDIMENT TRAP  
DRAINAGE AREA TO TRAP=1.5 AC  
STORAGE VOLUME REQUIRED=1.5 AC x 5,000 CF/AC=7,500 CF  
STORAGE VOLUME PROVIDED=10,395 CF  
Lt=120'  
Lb=40'  
Wt=22'  
Wb=22'  
D=3'  
S=3'

PHASE 2A TEMPORARY SEDIMENT TRAP (DETENTION BASIN 20PA)  
DRAINAGE AREA TO TRAP=2.0 AC  
STORAGE VOLUME REQUIRED=2.0 AC x 5,000 CF/AC=10,000 CF  
STORAGE VOLUME PROVIDED=40,965 CF

APPROVED BY THE TOWN OF WRENTHAM PLANNING BOARD


DATE: \_\_\_\_\_

NOTES

1. PROTECT ITEMS INDICATED TO REMAIN DURING CONSTRUCTION.
2. WITHIN LIMITS OF WORK, PERFORM EARTHWORK AS FOLLOWS:
  - 2.1. STRIP AND TEMPORARILY STOCKPILE TOPSOIL FOR RE-USE, PROVIDED IT CONFORMS TO THE SPECIFICATIONS.
  - 2.2. REMOVE EXISTING HARDSCAPED SURFACES (E.G., PAVED AREAS, SIDEWALKS, CONCRETE PADS, ETC.).
  - 2.3. EXISTING BASE MATERIAL MAY BE RE-USED, PROVIDED IT CONFORMS TO THE SPECIFICATIONS.
3. UNLESS OTHERWISE NOTED, EXISTING SITE FEATURES AND LANDSCAPING (E.G. LIGHT POLES, FENCES, BOLLARDS, PLANTINGS, TREES, ETC.) WITHIN LIMIT OF WORK ARE TO BE REMOVED. COORDINATE THE OWNER AND ENGINEER FOR ITEMS NOT DEPICTED ON THIS PLAN PRIOR TO DEMOLITION.
4. UNLESS OTHERWISE NOTED, EXISTING UTILITY AND STORM STRUCTURES, PIPING CONDUITS, AND OTHER APPURTENANCES WITHIN LIMIT OF WORK ARE TO REMAIN.
  - 4.1. PRIOR TO CONSTRUCTION, VERIFY EXISTING UTILITY ROUTING, EXISTING UTILITIES THAT SERVICE OTHER DEVELOPMENTS ARE TO REMAIN.
5. REFER TO THE EROSION AND SEDIMENT CONTROL NOTES ON GI-002 AND THE CONSTRUCTION SEQUENCE ON SHEET GI-200 THROUGH GI-201 FOR STABILIZATION AND PHASING REQUIREMENTS.

LEGEND

- PROPERTY LINE
- ZONE A LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING FEMA LIDAR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING OVERHEAD ELECTRIC
- EXISTING STORM DRAIN
- EXISTING HORIZONTAL CONTROL STATION
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING MANHOLE
- EXISTING STONE WALL
- WETLAND BOUNDARY
- WETLAND BUFFER
- LIMIT OF SITE WORK
- MAJOR CONTOUR
- MINOR CONTOUR
- STORM DRAIN (SEE DETAIL SHEETS)
- CHAIN LINK FENCE (SEE DETAIL SHEETS)
- TREE LINE
- TEST PIT LOCATION
- OUTLET CONTROL STRUCTURE (SEE DETAIL SHEETS)
- CULVERT END (SEE DETAIL SHEETS)
- TEMPORARY E&S DIVERSION SWALE (SEE DETAIL SHEETS)
- TEMPORARY GRADING
- STOCKPILE AREA (SEE DETAIL SHEETS)
- TEMPORARY SEDIMENT TRAP (SEE DETAIL SHEETS)
- SILT FENCE (SEE DETAIL SHEETS)
- COMPOST FILTER SOCK (SEE DETAIL SHEETS)
- SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE (SEE DETAIL SHEETS)
- SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE (SEE DETAIL SHEETS)
- INLET PROTECTION (SEE DETAIL SHEETS)
- SITE CLEARING ZONES - CLEARING AND GRUBBING
- SITE CLEARING ZONES - CLEARING
- SITE CLEARING ZONES - SELECTIVE CLEARING
- EROSION CONTROL BLANKET (SEE DETAIL SHEETS)
- COMPOST FILTER SOCK CHECK DAM (SEE DETAIL SHEETS)
- DIRECTION OF FLOW

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM
4.	1/20/2022	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM



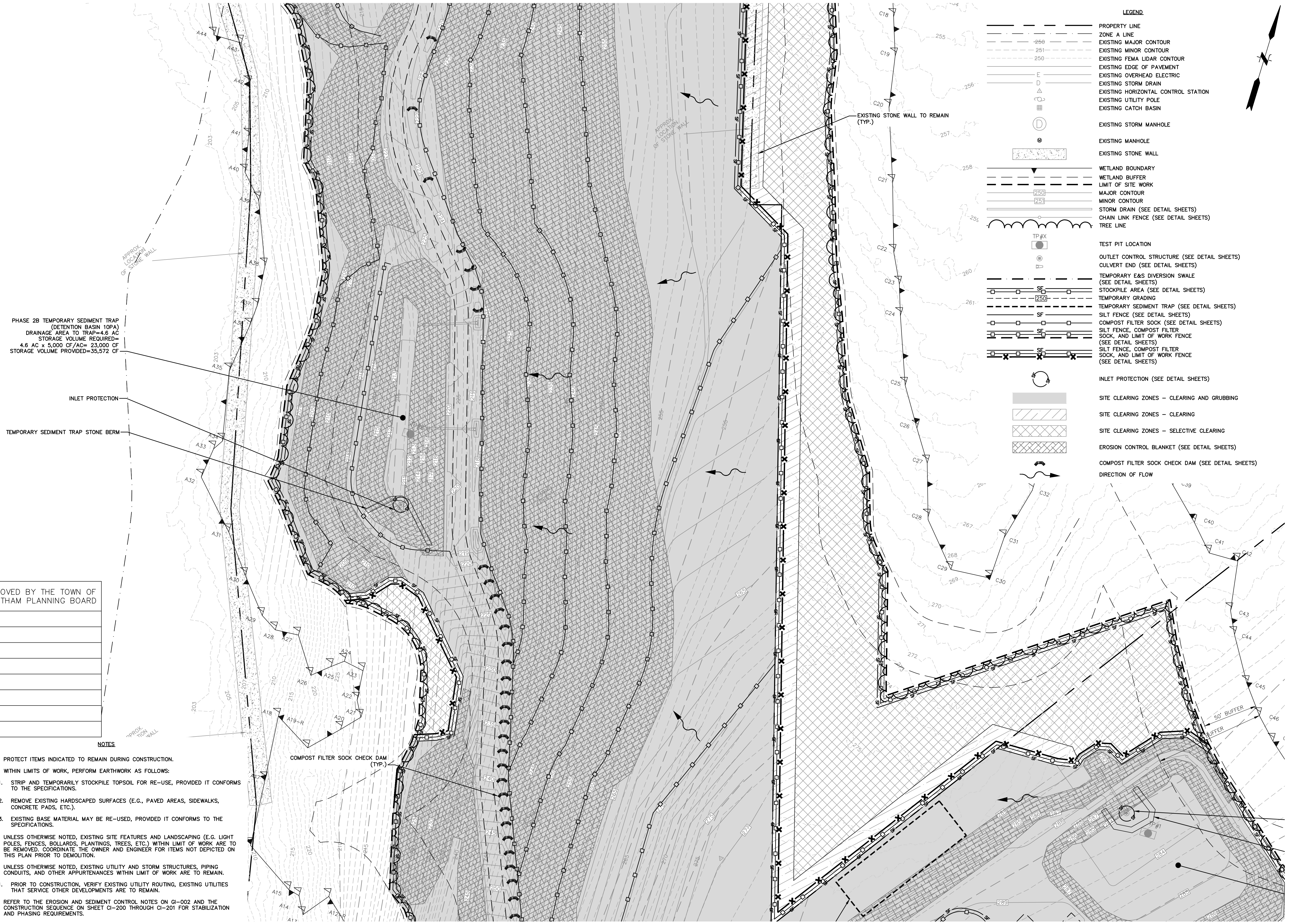
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VERT.: \_\_\_\_\_  
DATUM: \_\_\_\_\_  
HORIZ.: \_\_\_\_\_  
VERT.: \_\_\_\_\_  
GRAPHIC SCALE

**FUSS & O'NEILL**  
108 MYRTLE STREET, SUITE 502  
WRENTHAM, MA 01971  
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NEXTGRID INC.  
**SITE PREPARATION AND EROSION & SEDIMENT CONTROL PLAN**  
80 WASHINGTON STREET  
WRENTHAM, MASSACHUSETTS

PROJ. No.: 20190629.C10  
DATE: 08/23/2021  
**CP-101**





PHASE 2B TEMPORARY SEDIMENT TRAP (DETENTION BASIN 10PA)  
 DRAINAGE AREA TO TRAP=4.6 AC  
 STORAGE VOLUME REQUIRED= 4.6 AC x 5,000 CF/AC= 23,000 CF  
 STORAGE VOLUME PROVIDED=35,572 CF

APPROVED BY THE TOWN OF WRENTHAM PLANNING BOARD

DATE:

NOTES

1. PROTECT ITEMS INDICATED TO REMAIN DURING CONSTRUCTION.
2. WITHIN LIMITS OF WORK, PERFORM EARTHWORK AS FOLLOWS:
  - 2.1. STRIP AND TEMPORARILY STOCKPILE TOPSOIL FOR RE-USE, PROVIDED IT CONFORMS TO THE SPECIFICATIONS.
  - 2.2. REMOVE EXISTING HARDSCAPED SURFACES (E.G., PAVED AREAS, SIDEWALKS, CONCRETE PADS, ETC.).
  - 2.3. EXISTING BASE MATERIAL MAY BE RE-USED, PROVIDED IT CONFORMS TO THE SPECIFICATIONS.
3. UNLESS OTHERWISE NOTED, EXISTING SITE FEATURES AND LANDSCAPING (E.G. LIGHT POLES, FENCES, BOLLARDS, PLANTINGS, TREES, ETC.) WITHIN LIMIT OF WORK ARE TO BE REMOVED. COORDINATE THE OWNER AND ENGINEER FOR ITEMS NOT DEPICTED ON THIS PLAN PRIOR TO DEMOLITION.
4. UNLESS OTHERWISE NOTED, EXISTING UTILITY AND STORM STRUCTURES, PIPING CONDUITS, AND OTHER APPURTENANCES WITHIN LIMIT OF WORK ARE TO REMAIN.
- 4.1. PRIOR TO CONSTRUCTION, VERIFY EXISTING UTILITY ROUTING, EXISTING UTILITIES THAT SERVICE OTHER DEVELOPMENTS ARE TO REMAIN.
5. REFER TO THE EROSION AND SEDIMENT CONTROL NOTES ON CI-002 AND THE CONSTRUCTION SEQUENCE ON SHEET CI-200 THROUGH CI-201 FOR STABILIZATION AND PHASING REQUIREMENTS.

**LEGEND**

- PROPERTY LINE
- ZONE A LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING FEMA LIDAR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING OVERHEAD ELECTRIC
- EXISTING STORM DRAIN
- EXISTING HORIZONTAL CONTROL STATION
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING MANHOLE
- EXISTING STONE WALL
- WETLAND BOUNDARY
- WETLAND BUFFER
- LIMIT OF SITE WORK
- MAJOR CONTOUR
- MINOR CONTOUR
- STORM DRAIN (SEE DETAIL SHEETS)
- CHAIN LINK FENCE (SEE DETAIL SHEETS)
- TREE LINE
- TEST PIT LOCATION
- OUTLET CONTROL STRUCTURE (SEE DETAIL SHEETS)
- CULVERT END (SEE DETAIL SHEETS)
- TEMPORARY E&S DIVERSION SWALE (SEE DETAIL SHEETS)
- STOCKPILE AREA (SEE DETAIL SHEETS)
- TEMPORARY GRADING
- TEMPORARY SEDIMENT TRAP (SEE DETAIL SHEETS)
- SILT FENCE (SEE DETAIL SHEETS)
- COMPOST FILTER SOCK (SEE DETAIL SHEETS)
- SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE (SEE DETAIL SHEETS)
- SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE (SEE DETAIL SHEETS)
- INLET PROTECTION (SEE DETAIL SHEETS)
- SITE CLEARING ZONES - CLEARING AND GRUBBING
- SITE CLEARING ZONES - CLEARING
- SITE CLEARING ZONES - SELECTIVE CLEARING
- EROSION CONTROL BLANKET (SEE DETAIL SHEETS)
- COMPOST FILTER SOCK CHECK DAM (SEE DETAIL SHEETS)
- DIRECTION OF FLOW

DESIGNER	JHD	KCM
REVIEWER	JHD	KCM
DATE	10/8/2021	10/8/2021
NO.	1.	1.
DESCRIPTION	REVISED PER TOWN COMMENTS	REVISED PER TOWN COMMENTS
DATE	10/21/2021	10/21/2021
NO.	3.	3.
DESCRIPTION	REVISED PER TOWN COMMENTS	REVISED PER TOWN COMMENTS
DATE	12/22/2021	12/22/2021
NO.	4.	4.
DESCRIPTION	REVISED PER TOWN COMMENTS	REVISED PER TOWN COMMENTS
DATE	1/20/2022	1/20/2022
NO.	5.	5.
DESCRIPTION	REVISED PER TOWN COMMENTS	REVISED PER TOWN COMMENTS

SCALE: HORIZ.: 1" = 40'  
 VERT.: 1" = 4'  
 DATUM: NAD 83  
 HORIZ.: 1" = 40'  
 VERT.: 1" = 4'

**FUSS & O'NEILL**  
 108 MYRTLE STREET, SUITE 502  
 WRENTHAM, MA 01971  
 (508) 845-4675  
 www.fussandoneill.com

PROJECT: 20190629.C10  
 DATE: 08/23/2021

**CP-102**

APPROVED BY THE TOWN OF  
 WRENTHAM PLANNING BOARD

DATE: \_\_\_\_\_



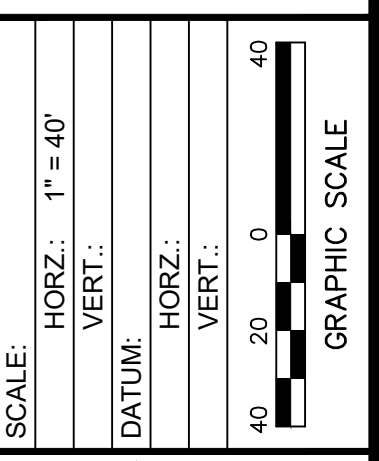
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5. REFER TO THE EROSION AND SEDIMENT CONTROL NOTES ON GI-002 AND THE CONSTRUCTION SEQUENCE ON SHEET CI-200 THROUGH CI-201 FOR STABILIZATION AND PHASING REQUIREMENTS.

**LEGEND**

- PROPERTY LINE
- ZONE A LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING FEMA LIDAR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING OVERHEAD ELECTRIC
- EXISTING STORM DRAIN
- EXISTING HORIZONTAL CONTROL STATION
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING MANHOLE
- EXISTING STONE WALL
- WETLAND BOUNDARY
- WETLAND BUFFER
- LIMIT OF SITE WORK
- MAJOR CONTOUR
- MINOR CONTOUR
- STORM DRAIN (SEE DETAIL SHEETS)
- CHAIN LINK FENCE (SEE DETAIL SHEETS)
- TREE LINE
- TEST PIT LOCATION
- OUTLET CONTROL STRUCTURE (SEE DETAIL SHEETS)
- CULVERT END (SEE DETAIL SHEETS)
- TEMPORARY E&S DIVERSION SWALE (SEE DETAIL SHEETS)
- STOCKPILE AREA (SEE DETAIL SHEETS)
- TEMPORARY GRADING
- TEMPORARY SEDIMENT TRAP (SEE DETAIL SHEETS)
- SILT FENCE (SEE DETAIL SHEETS)
- COMPOST FILTER SOCK (SEE DETAIL SHEETS)
- SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE (SEE DETAIL SHEETS)
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- INLET PROTECTION (SEE DETAIL SHEETS)
- SITE CLEARING ZONES - CLEARING AND GRUBBING
- SITE CLEARING ZONES - CLEARING
- SITE CLEARING ZONES - SELECTIVE CLEARING
- EROSION CONTROL BLANKET (SEE DETAIL SHEETS)
- COMPOST FILTER SOCK CHECK DAM (SEE DETAIL SHEETS)
- DIRECTION OF FLOW

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
4.	1/20/2022	REVISED PER TOWN COMMENTS	JHD	KCM
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM



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 80 WASHINGTON STREET  
 WRENTHAM MASSACHUSETTS

PROJ. No.: 20190629.C10  
 DATE: 08/23/2021

**CP-103**

**LEGEND**

- PROPERTY LINE
- ZONE A LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING FEMA LIDAR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING OVERHEAD ELECTRIC
- EXISTING STORM DRAIN
- EXISTING HORIZONTAL CONTROL STATION
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING MANHOLE
- EXISTING STONE WALL
- WETLAND BOUNDARY
- WETLAND BUFFER
- BUILDING SETBACK
- LIMIT OF WORK
- MAJOR CONTOUR
- MINOR CONTOUR
- OVERHEAD ELECTRIC
- STORM DRAIN (SEE DETAIL SHEETS)
- CHAIN LINK FENCE (SEE DETAIL SHEETS)
- TREE LINE
- SIDESLOPE CHANNEL (SEE DETAIL SHEETS)
- TEST PIT LOCATION
- LEYLAND CYPRESS
- UTILITY POLE
- OUTLET CONTROL STRUCTURE (SEE DETAIL SHEETS)
- CULVERT END
- SOLAR PANEL (SEE DETAIL SHEETS)
- RIP RAP (SEE DETAIL SHEETS)
- GRAVEL ACCESS ROAD (SEE DETAIL SHEETS)
- STONE BERM (SEE DETAIL SHEETS)
- WATER BAR (SEE DETAIL SHEETS)

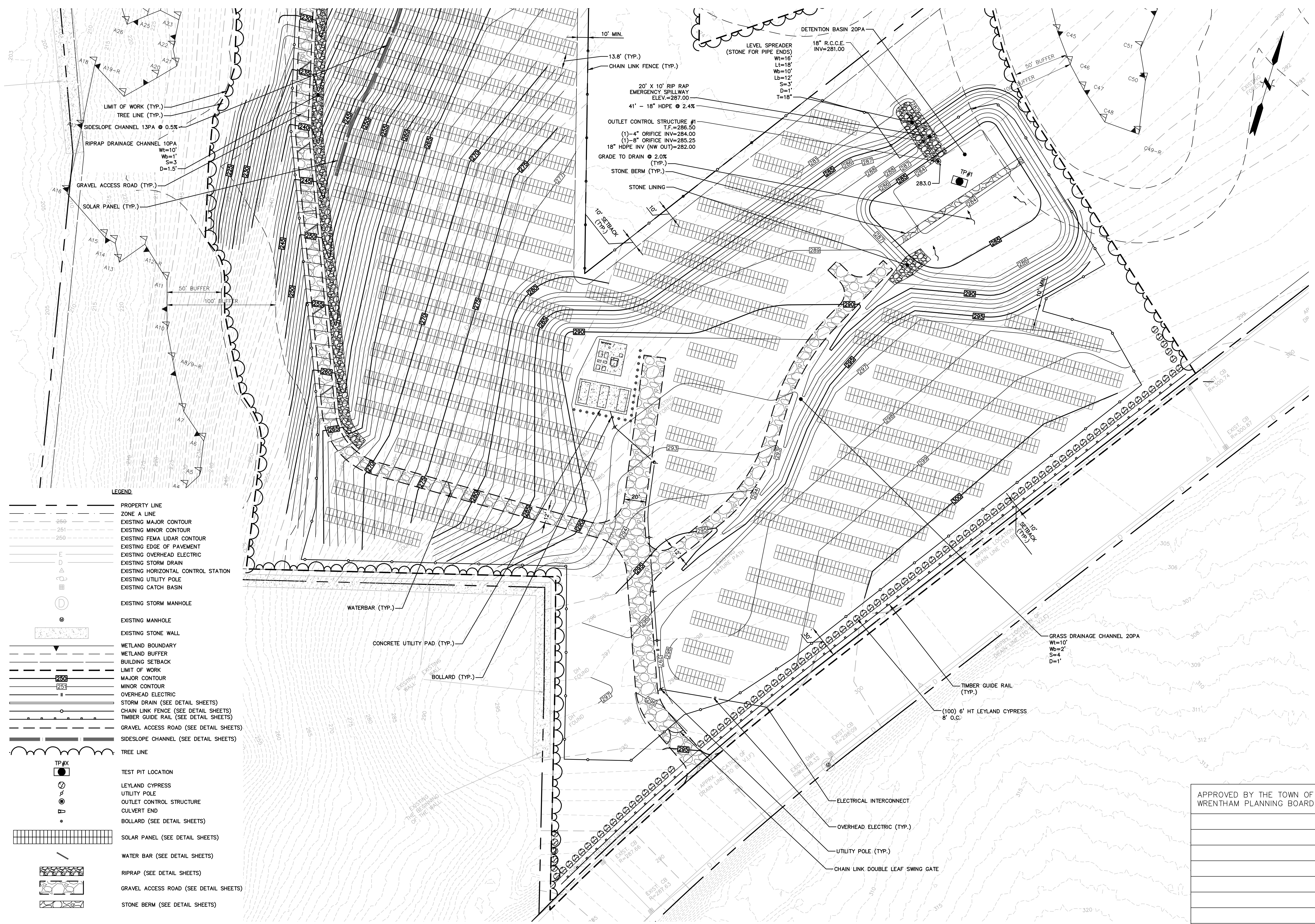


APPROVED BY THE TOWN OF  
 WRENTHAM PLANNING BOARD

DATE:

SCALE: HORZ.: 1" = 100' VERT.: DATUM: HORZ.: VERT.: 100 50 0 100 GRAPHIC SCALE	<b>FUSS &amp; O'NEILL</b> 108 MYRTLE STREET, SUITE 502 WRENTHAM, MA 01971 (508) 285-4673 www.fandob.com
NEXTGRID INC. OVERALL SITE LAYOUT PLAN 80 WASHINGTON STREET WRENTHAM MASSACHUSETTS	PROJ. No.: 20190629.C10 DATE: 08/23/2021 <b>CS-100</b>
5. 2/7/2022 REVISED PER TOWN COMMENTS 4. 1/20/2022 REVISED PER TOWN COMMENTS 3. 12/22/2021 REVISED PER TOWN COMMENTS 2. 10/21/2021 REVISED PER TOWN COMMENTS 1. 10/8/2021 REVISED PER TOWN COMMENTS	No. DATE DESCRIPTION DESIGNER REVIEWER JHD JHD KCM JHD JHD KCM JHD JHD KCM JHD JHD KCM

SEE SHEET CS-102



**LEGEND**

	PROPERTY LINE
	ZONE A LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING FEMA LIDAR CONTOUR
	EXISTING EDGE OF PAVEMENT
	EXISTING OVERHEAD ELECTRIC
	EXISTING STORM DRAIN
	EXISTING HORIZONTAL CONTROL STATION
	EXISTING UTILITY POLE
	EXISTING CATCH BASIN
	EXISTING STORM MANHOLE
	EXISTING MANHOLE
	EXISTING STONE WALL
	WETLAND BOUNDARY
	WETLAND BUFFER
	BUILDING SETBACK
	LIMIT OF WORK
	MAJOR CONTOUR
	MINOR CONTOUR
	OVERHEAD ELECTRIC
	STORM DRAIN (SEE DETAIL SHEETS)
	CHAIN LINK FENCE (SEE DETAIL SHEETS)
	TIMBER GUIDE RAIL (SEE DETAIL SHEETS)
	GRAVEL ACCESS ROAD (SEE DETAIL SHEETS)
	SIDESLOPE CHANNEL (SEE DETAIL SHEETS)
	TREE LINE
	TEST PIT LOCATION
	LEYLAND CYPRESS
	UTILITY POLE
	OUTLET CONTROL STRUCTURE
	CULVERT END
	BOLLARD (SEE DETAIL SHEETS)
	SOLAR PANEL (SEE DETAIL SHEETS)
	WATER BAR (SEE DETAIL SHEETS)
	RIPRAP (SEE DETAIL SHEETS)
	GRAVEL ACCESS ROAD (SEE DETAIL SHEETS)
	STONE BERM (SEE DETAIL SHEETS)

APPROVED BY THE TOWN OF  
 WRENTHAM PLANNING BOARD

DATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
4.	1/20/2022	REVISED PER TOWN COMMENTS	JHD	KCM
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM



SCALE: HORIZ.: 1" = 40'  
 VERT.: 1" = 40'

DATUM:

HORIZ.: 1" = 40'  
 VERT.: 1" = 40'

GRAPHIC SCALE

**FUSS & O'NEILL**  
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 WRENTHAM, MA 01971  
 www.fuss.com

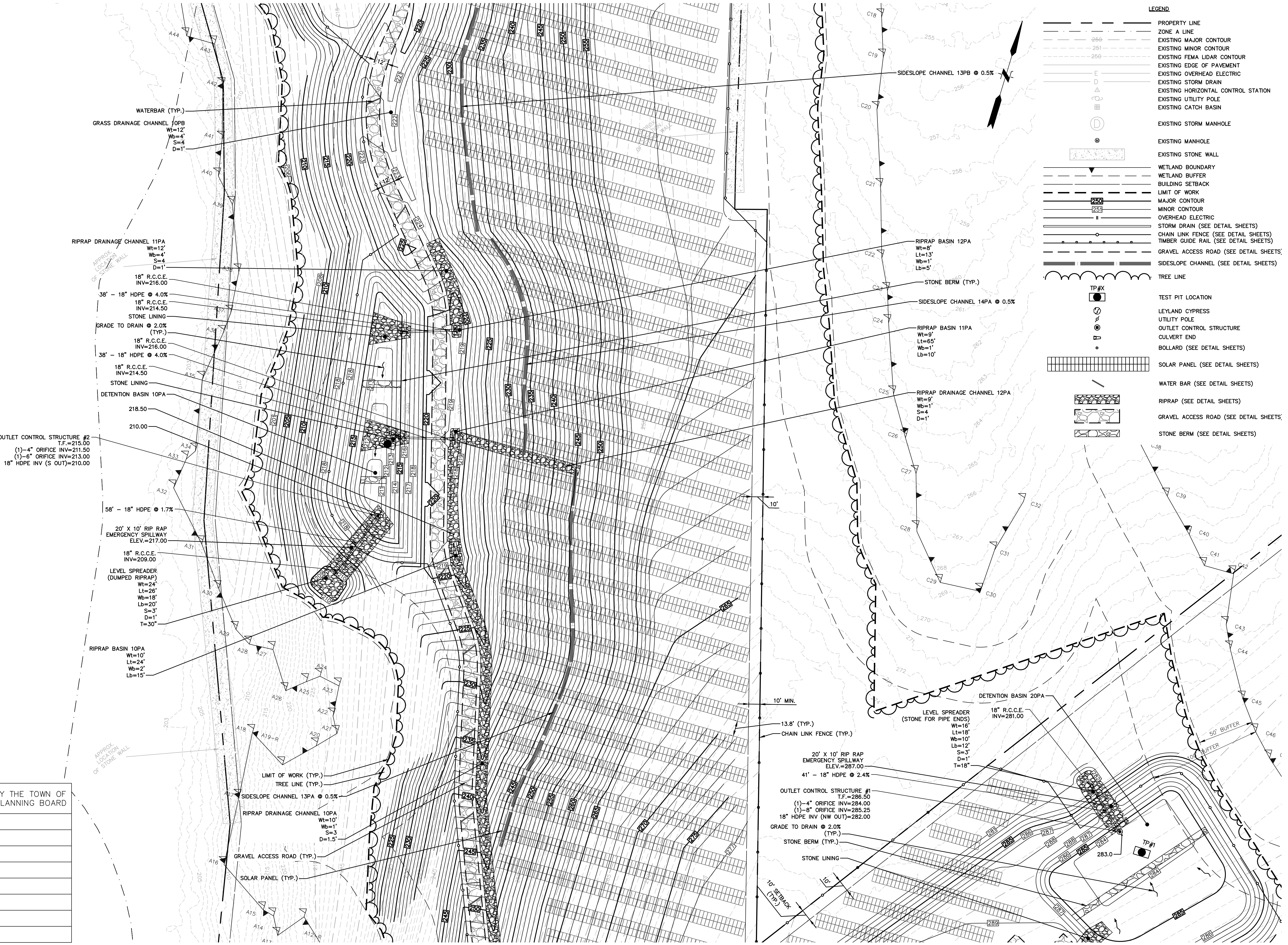
NEXTGRID INC.  
**SITE LAYOUT PLAN**  
 80 WASHINGTON STREET  
 WRENTHAM MASSACHUSETTS

PROJ. No.: 20190629.C10  
 DATE: 08/23/2021  
**CS-101**

File: J:\DWG\2019\0629\C10\Civil\Plan20190629\_C10\_STP01.dwg Layout: CS-102 User: JDeninger  
PC3: AUTOCAD PDF (GENERAL DOCUMENTATION)PC3\_STB/CTB: FO STB  
MS VIEW: LAYER STATE:

APPROVED BY THE TOWN OF WRENTHAM PLANNING BOARD

DATE:



LEGEND

- PROPERTY LINE
- ZONE A LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING FEMA LIDAR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING OVERHEAD ELECTRIC
- EXISTING STORM DRAIN
- EXISTING HORIZONTAL CONTROL STATION
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING MANHOLE
- EXISTING STONE WALL
- WETLAND BOUNDARY
- WETLAND BUFFER
- BUILDING SETBACK
- LIMIT OF WORK
- MAJOR CONTOUR
- MINOR CONTOUR
- OVERHEAD ELECTRIC
- STORM DRAIN (SEE DETAIL SHEETS)
- CHAIN LINK FENCE (SEE DETAIL SHEETS)
- TIMBER GUIDE RAIL (SEE DETAIL SHEETS)
- GRAVEL ACCESS ROAD (SEE DETAIL SHEETS)
- SIDESLOPE CHANNEL (SEE DETAIL SHEETS)
- TREE LINE
- TEST PIT LOCATION
- LEYLAND CYPRESS
- UTILITY POLE
- OUTLET CONTROL STRUCTURE
- CULVERT END
- BOLLARD (SEE DETAIL SHEETS)
- SOLAR PANEL (SEE DETAIL SHEETS)
- WATER BAR (SEE DETAIL SHEETS)
- RIPRAP (SEE DETAIL SHEETS)
- GRAVEL ACCESS ROAD (SEE DETAIL SHEETS)
- STONE BERM (SEE DETAIL SHEETS)

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
4.	1/20/2022	REVISED PER TOWN COMMENTS	JHD	KCM
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM



SCALE: HORIZ.: 1" = 40'

VERT.: 1" = 40'

DATUM: NAVD83

HORIZ.: 1" = 40'

VERT.: 1" = 40'

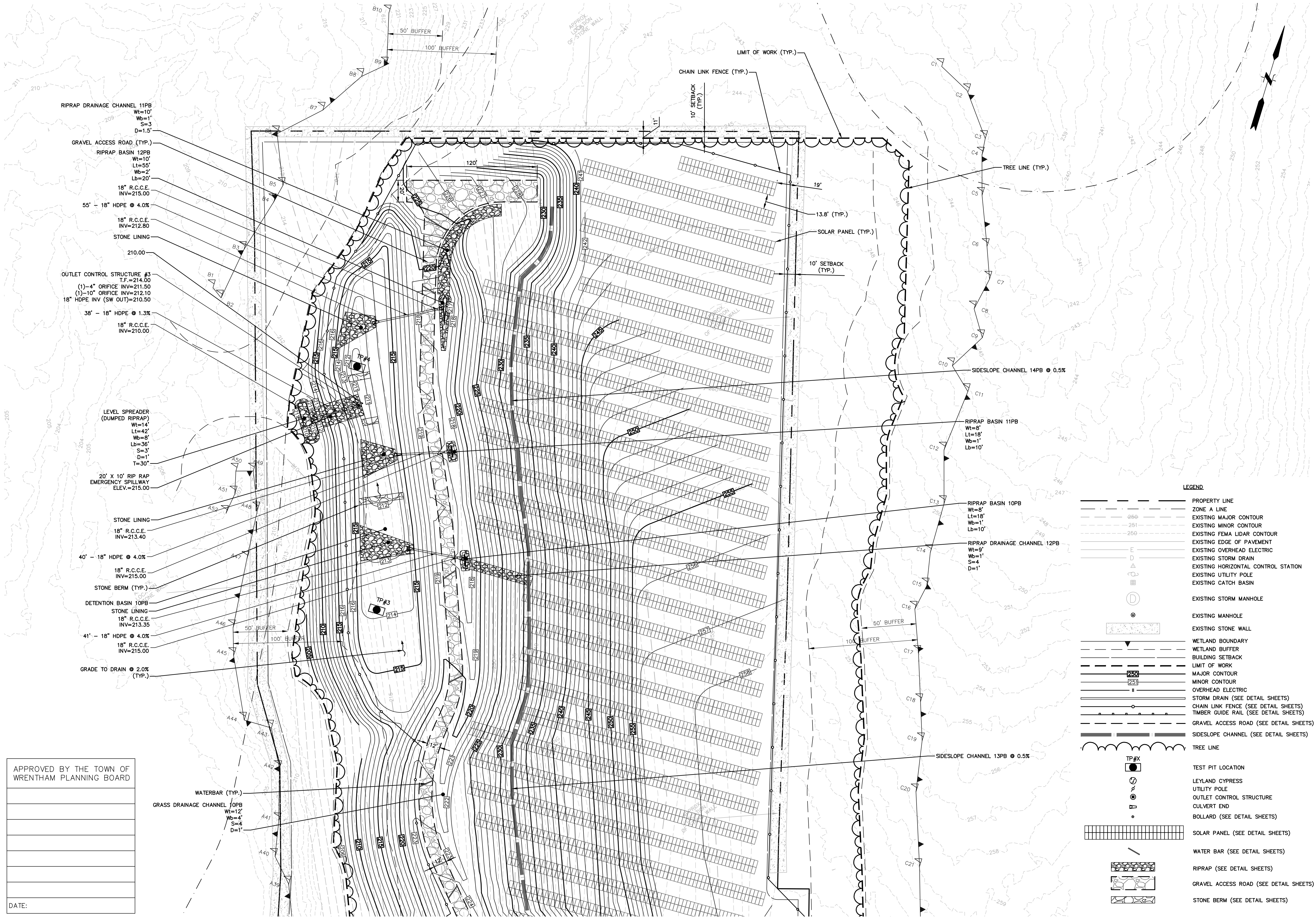
GRAPHIC SCALE

**FUSS & O'NEILL**  
 108 MYRTLE STREET, SUITE 502  
 WRENTHAM, MA 01971  
 (508) 845-4635  
 www.fussandoneill.com

NEXTGRID INC.  
**SITE LAYOUT PLAN**  
 80 WASHINGTON STREET  
 WRENTHAM, MASSACHUSETTS

PROJ. No.: 20190629.C10  
DATE: 08/23/2021

**CS-102**



APPROVED BY THE TOWN OF  
 WRENTHAM PLANNING BOARD

DATE: \_\_\_\_\_

- LEGEND**
- PROPERTY LINE
  - ZONE A LINE
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - EXISTING FEMA LIDAR CONTOUR
  - EXISTING EDGE OF PAVEMENT
  - EXISTING OVERHEAD ELECTRIC
  - EXISTING STORM DRAIN
  - EXISTING HORIZONTAL CONTROL STATION
  - EXISTING UTILITY POLE
  - EXISTING CATCH BASIN
  - EXISTING STORM MANHOLE
  - EXISTING MANHOLE
  - EXISTING STONE WALL
  - WETLAND BOUNDARY
  - WETLAND BUFFER
  - BUILDING SETBACK
  - LIMIT OF WORK
  - MAJOR CONTOUR
  - MINOR CONTOUR
  - OVERHEAD ELECTRIC
  - STORM DRAIN (SEE DETAIL SHEETS)
  - CHAIN LINK FENCE (SEE DETAIL SHEETS)
  - TIMBER GUIDE RAIL (SEE DETAIL SHEETS)
  - GRAVEL ACCESS ROAD (SEE DETAIL SHEETS)
  - SIDESLOPE CHANNEL (SEE DETAIL SHEETS)
  - TREE LINE
  - TP#X TEST PIT LOCATION
  - LEYLAND CYPRESS
  - UTILITY POLE
  - OUTLET CONTROL STRUCTURE
  - CULVERT END
  - BOLLARD (SEE DETAIL SHEETS)
  - ▨ SOLAR PANEL (SEE DETAIL SHEETS)
  - ▨ WATER BAR (SEE DETAIL SHEETS)
  - ▨ RIPRAP (SEE DETAIL SHEETS)
  - ▨ GRAVEL ACCESS ROAD (SEE DETAIL SHEETS)
  - ▨ STONE BERM (SEE DETAIL SHEETS)

DESIGNER	JHD	KCM
REVIEWER	JHD	KCM
DATE	2/7/2022	REVISED PER TOWN COMMENTS
No.	4.	1/20/2022 REVISED PER TOWN COMMENTS
	3.	12/22/2021 REVISED PER TOWN COMMENTS
	2.	10/21/2021 REVISED PER TOWN COMMENTS
	1.	10/8/2021 REVISED PER TOWN COMMENTS

SCALE: HORIZ.: 1" = 40'  
 VERT.: \_\_\_\_\_  
 DATUM: \_\_\_\_\_  
 HORIZ.: \_\_\_\_\_  
 VERT.: \_\_\_\_\_  
 GRAPHIC SCALE

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MASSACHUSETTS

NEXTGRID INC.  
 SITE LAYOUT PLAN  
 80 WASHINGTON STREET  
 WRENTHAM

PROJ. No.: 20190629.C10  
 DATE: 08/23/2021

**CS-103**

**LEGEND**

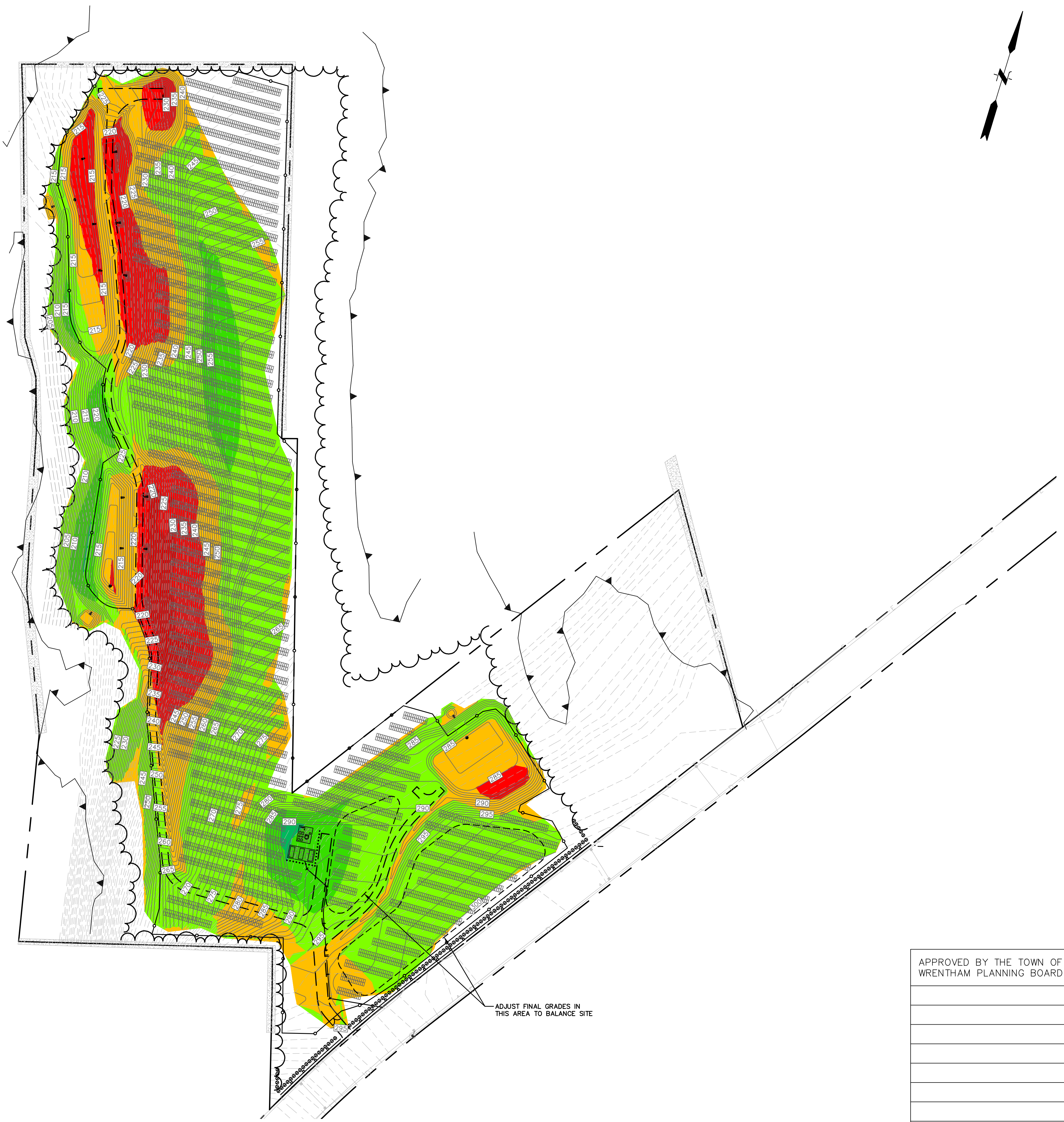
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- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING OVERHEAD ELECTRIC
- EXISTING STORM DRAIN
- EXISTING HORIZONTAL CONTROL STATION
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING MANHOLE
- EXISTING STONE WALL
- WETLAND BOUNDARY
- MAJOR CONTOUR
- MINOR CONTOUR
- OVERHEAD ELECTRIC
- CHAIN LINK FENCE
- TREE LINE
- LEYLAND CYPRESS
- UTILITY POLE
- OUTLET CONTROL STRUCTURE
- CULVERT END
- SOLAR PANEL
- GRAVEL ACCESS ROAD

**SURFACE ELEVATION DATA**

NUMBER	MINIMUM ELEVATION	MAXIMUM ELEVATION	COLOR
1	-15.00	-10.00	Red
2	-10.00	-5.00	Red
3	-5.00	0.00	Orange
4	0.00	5.00	Yellow
5	5.00	10.00	Light Green
6	10.00	15.00	Dark Green

**VOLUME ANALYSIS:**  
 CUT VOLUME = 41,200 CY  
 FILL VOLUME = 41,600 CY  
 NET VOLUME = 400 CY FILL

**NOTE:**  
 VOLUME CALCULATIONS ARE BASED ON A COMPARISON SURFACE OF EXISTING AND PROPOSED GRADE. ADJUST FINAL GRADES IN AREAS AS NOTED BASED ON ACTUAL FIELD CONDITIONS (E.G. SOIL COMPACTION, IMPORT OF RIPRAP/STONE/GRAVEL, ETC.). MAINTAIN PROPOSED DRAINAGE PATTERNS.



ADJUST FINAL GRADES IN THIS AREA TO BALANCE SITE

APPROVED BY THE TOWN OF WRENTHAM PLANNING BOARD

DATE: \_\_\_\_\_

SCALE: HORIZ.: 1" = 100'  
 VERT.: \_\_\_\_\_  
 DATUM: \_\_\_\_\_  
 HORIZ.: \_\_\_\_\_  
 VERT.: \_\_\_\_\_  
 GRAPHIC SCALE: 100 50 0 100

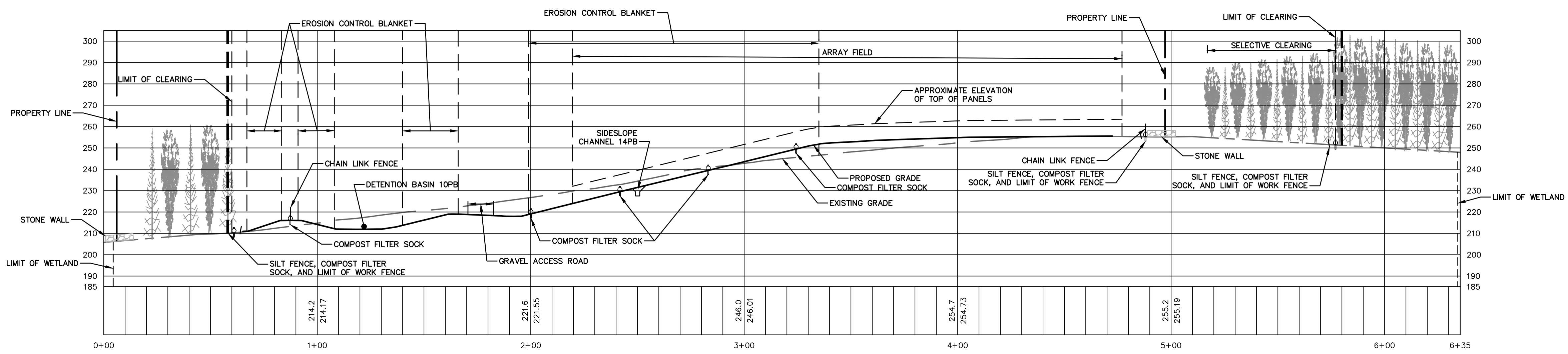
**FUSS & O'NEILL**  
 108 MYRTLE STREET, SUITE 502  
 WRENTHAM, MA 01971  
 (508) 283-4675  
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MASSACHUSETTS  
 80 WASHINGTON STREET  
 WRENTHAM

PROJ. No.: 20190629.C10  
 DATE: 08/23/2021

**CS-200**

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM
4.	1/20/2022	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM



APPROVED BY THE TOWN OF  
 WRENTHAM PLANNING BOARD

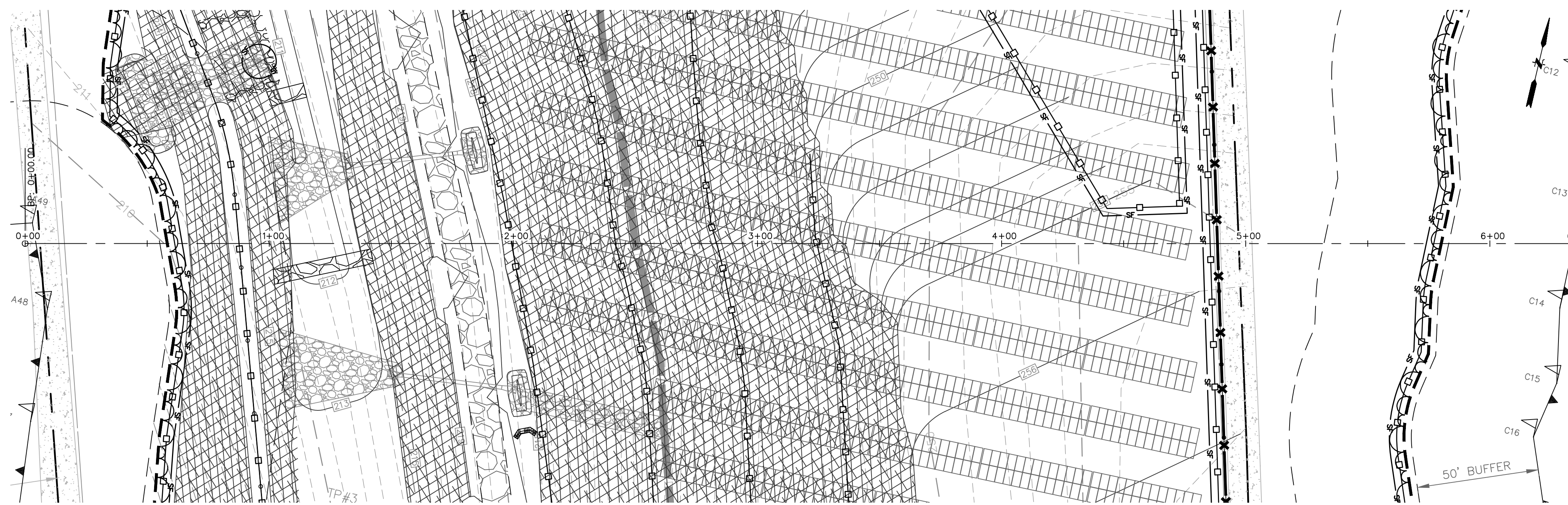
DATE:



SCALE: HORIZ.: 1" = 30'  
 VERT.: 1" = 30'  
 DATUM:  
 HORIZ.:  
 VERT.:  
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 GRAPHIC SCALE

**SITE SECTION A PROFILE**

H:1"=30'; V:1"=30'

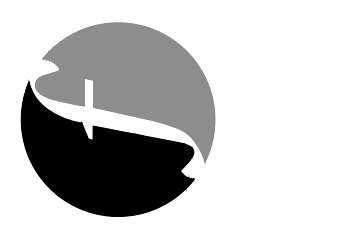


- LEGEND**
- PROPERTY LINE
  - - - - - EXISTING MAJOR CONTOUR
  - - - - - EXISTING MINOR CONTOUR
  - - - - - WETLAND BOUNDARY
  - - - - - WETLAND BUFFER
  - - - - - BUILDING SETBACK
  - - - - - LIMIT OF WORK
  - - - - - MAJOR CONTOUR
  - - - - - MINOR CONTOUR
  - STORM DRAIN (SEE DETAIL SHEETS)
  - SIDESLOPE CHANNEL (SEE DETAIL SHEETS)
  - CHAIN LINK FENCE (SEE DETAIL SHEETS)
  - TREE LINE
  - TEST PIT LOCATION
  - ▲ CULVERT END (SEE DETAIL SHEETS)
  - ▭ SOLAR PANEL (SEE DETAIL SHEETS)
  - ▨ RIP RAP (SEE DETAIL SHEETS)
  - ▩ EROSION CONTROL BLANKET (SEE DETAIL SHEETS)
  - ▧ GRAVEL ACCESS ROAD (SEE DETAIL SHEETS)
  - ▤ EXISTING STONE WALL (SEE DETAIL SHEETS)
  - SF — SF — SILT FENCE (SEE DETAIL SHEETS)
  - CFS — CFS — COMPOST FILTER SOCK (SEE DETAIL SHEETS)
  - CFS — SF — SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE (SEE DETAIL SHEETS)
  - CFS — SF — SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE (SEE DETAIL SHEETS)
  - IP — INLET PROTECTION (SEE DETAIL SHEETS)
  - CFS — COMPOST FILTER SOCK CHECK DAM (SEE DETAIL SHEETS)

**SITE SECTION A PLAN**

H:1"=30'

**FUSS & O'NEILL**  
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 WRENTHAM, MA 02717  
 (508) 285-4675  
 www.fussandoneill.com



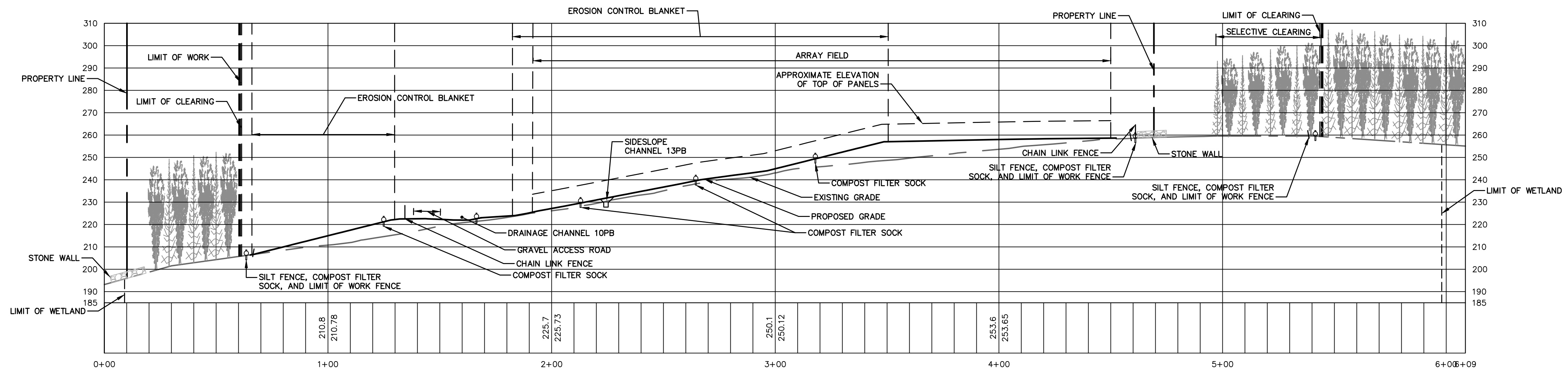
MASSACHUSETTS  
 WRENTHAM  
 80 WASHINGTON STREET  
 SITE SECTIONS  
 NEXTGRID INC.

PROJ. No.: 20190629.C10  
 DATE: 08/23/2021

**CX-301**

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
4.	1/20/2022	REVISED PER TOWN COMMENTS	JHD	KCM
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM





APPROVED BY THE TOWN OF  
 WRENTHAM PLANNING BOARD

DATE:

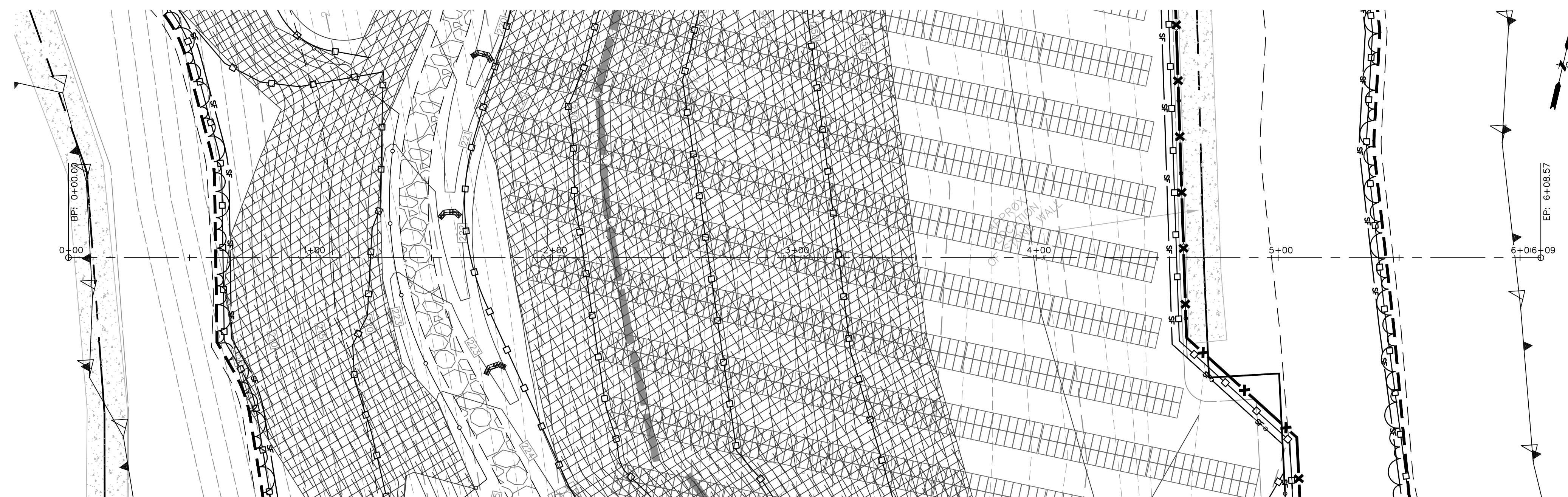
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 VERT.: 1" = 30'  
 DATUM:  
 HORZ.:  
 VERT.:  
 GRAPHIC SCALE



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM
4.	1/20/2022	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM

**SITE SECTION B PROFILE**

H:1"=30'; V:1"=30'



**SITE SECTION B PLAN**

H:1"=30'

**LEGEND**

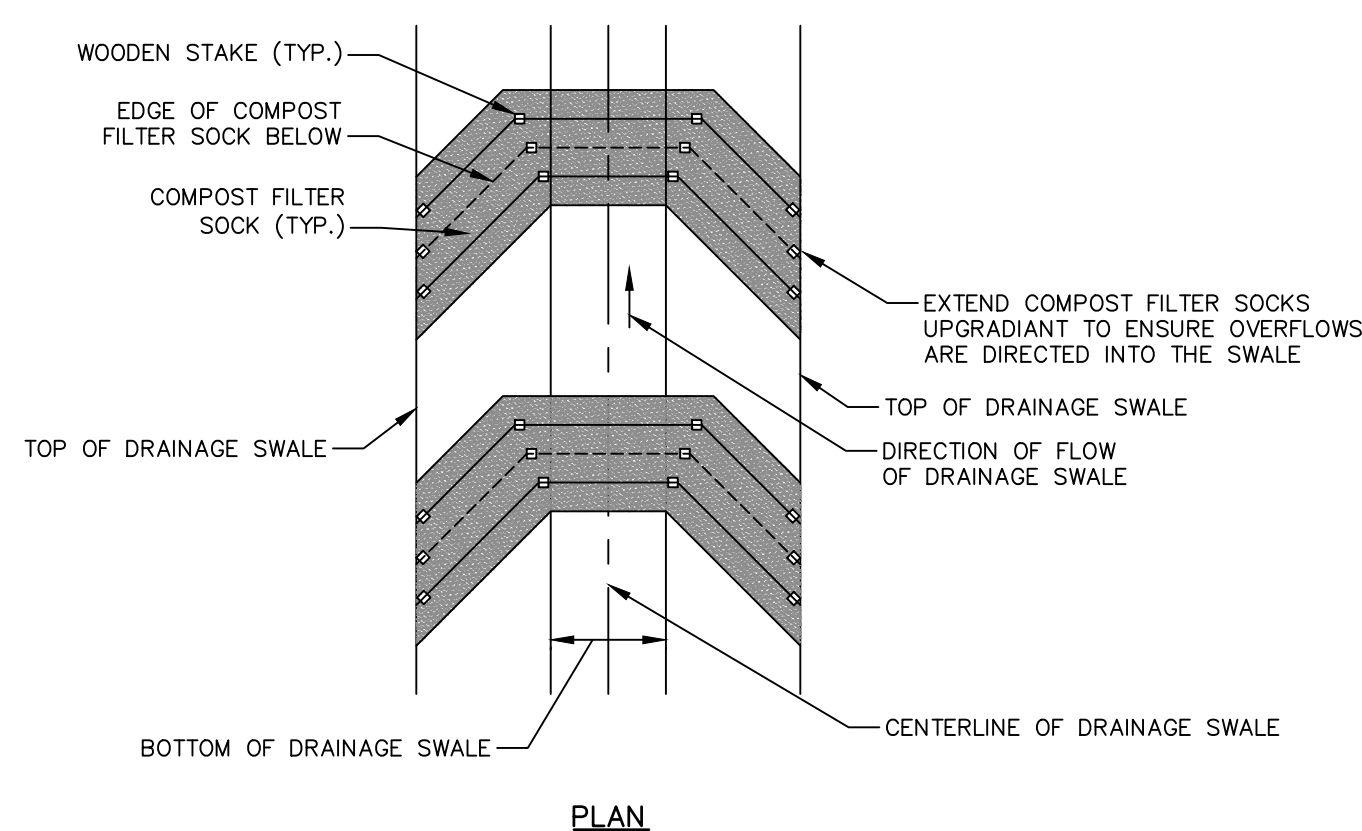
- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- WETLAND BOUNDARY
- WETLAND BUFFER
- BUILDING SETBACK
- LIMIT OF WORK
- MAJOR CONTOUR
- MINOR CONTOUR
- STORM DRAIN (SEE DETAIL SHEETS)
- SIDESLOPE CHANNEL (SEE DETAIL SHEETS)
- CHAIN LINK FENCE (SEE DETAIL SHEETS)
- TREE LINE
- TEST PIT LOCATION
- CULVERT END (SEE DETAIL SHEETS)
- SOLAR PANEL (SEE DETAIL SHEETS)
- RIP RAP (SEE DETAIL SHEETS)
- EROSION CONTROL BLANKET (SEE DETAIL SHEETS)
- GRAVEL ACCESS ROAD (SEE DETAIL SHEETS)
- EXISTING STONE WALL (SEE DETAIL SHEETS)
- SILT FENCE (SEE DETAIL SHEETS)
- COMPOST FILTER SOCK (SEE DETAIL SHEETS)
- SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE (SEE DETAIL SHEETS)
- SILT FENCE, COMPOST FILTER SOCK, AND LIMIT OF WORK FENCE (SEE DETAIL SHEETS)
- INLET PROTECTION (SEE DETAIL SHEETS)
- COMPOST FILTER SOCK CHECK DAM (SEE DETAIL SHEETS)

**FUSS & O'NEILL**  
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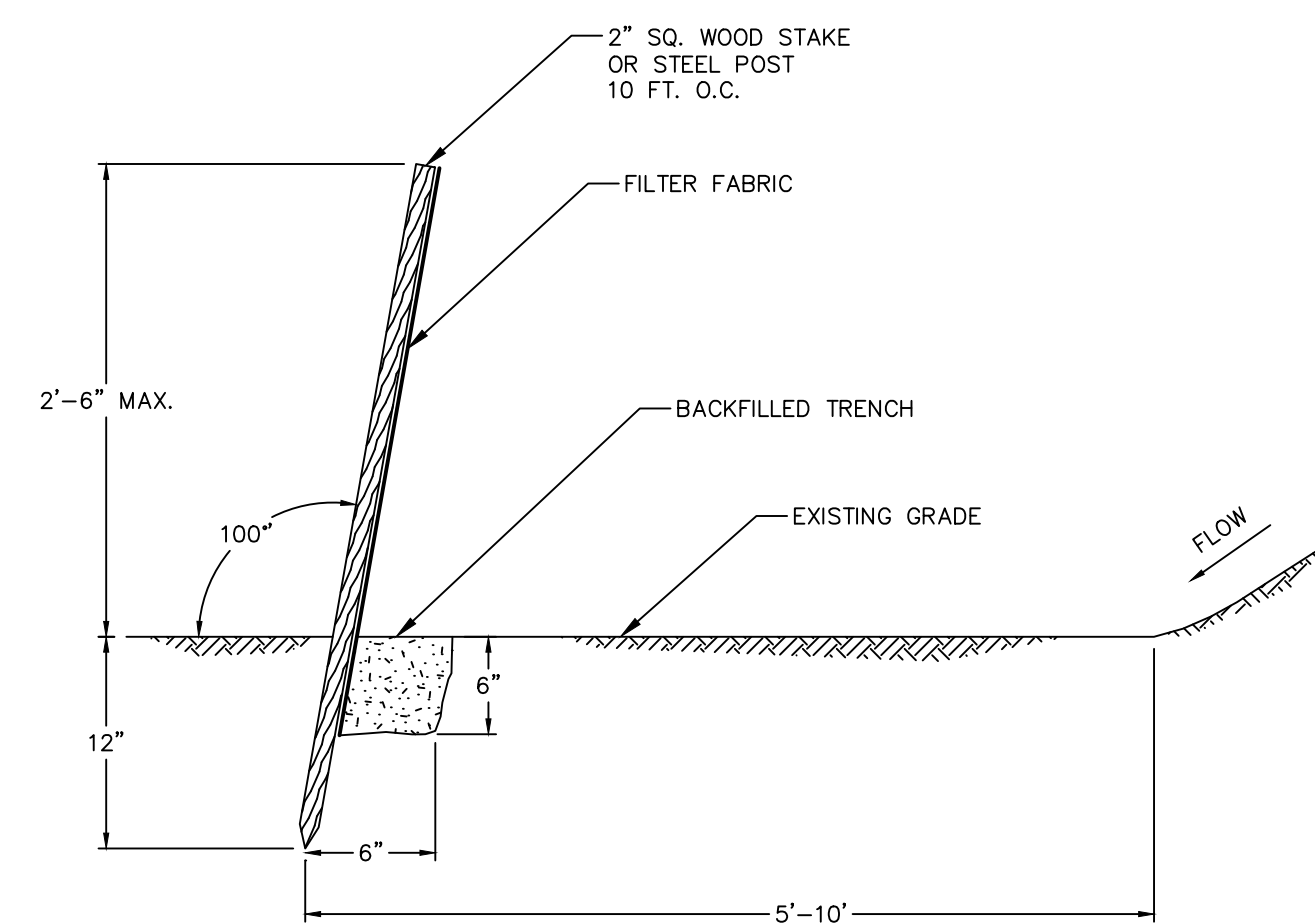
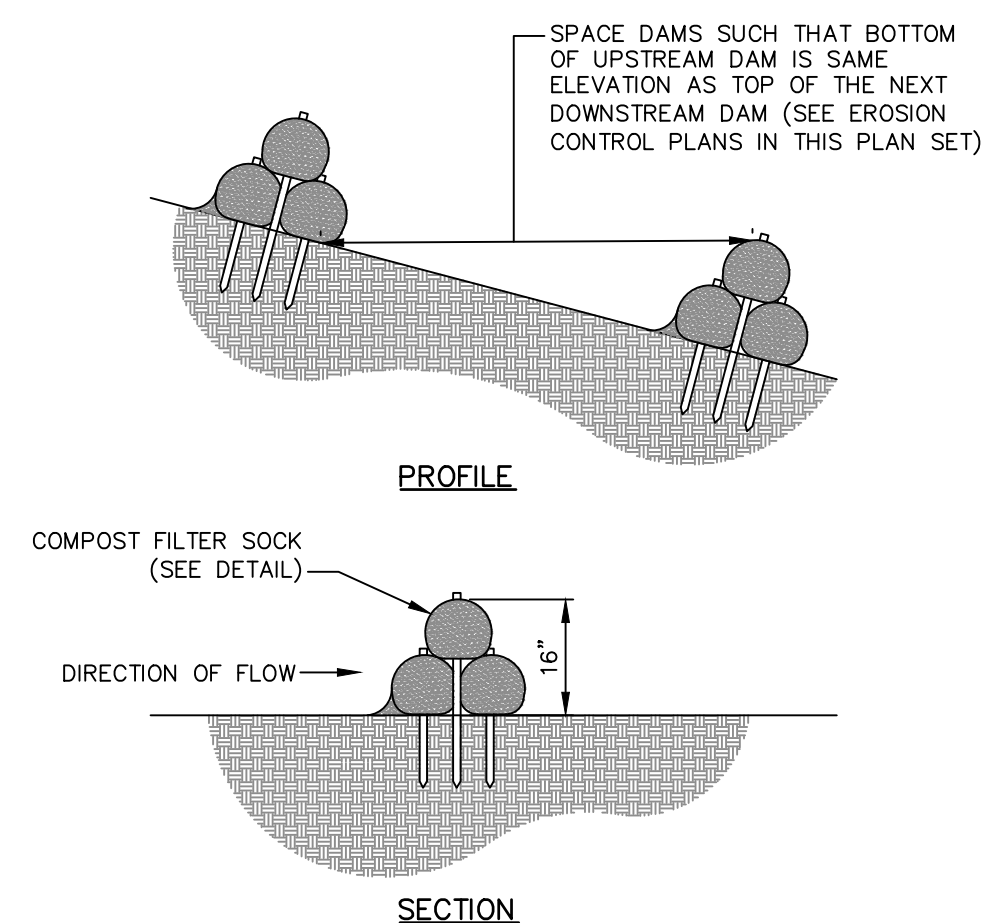
**NEXTGRID INC.**  
 SITE SECTIONS  
 80 WASHINGTON STREET  
 WRENTHAM MASSACHUSETTS

PROJ. No.: 20190629.C10  
 DATE: 08/23/2021  
**CX-302**



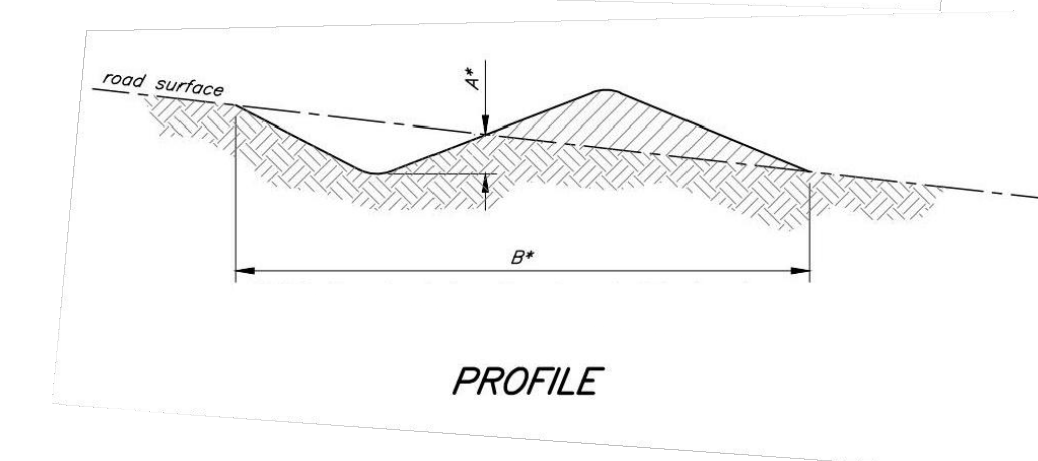
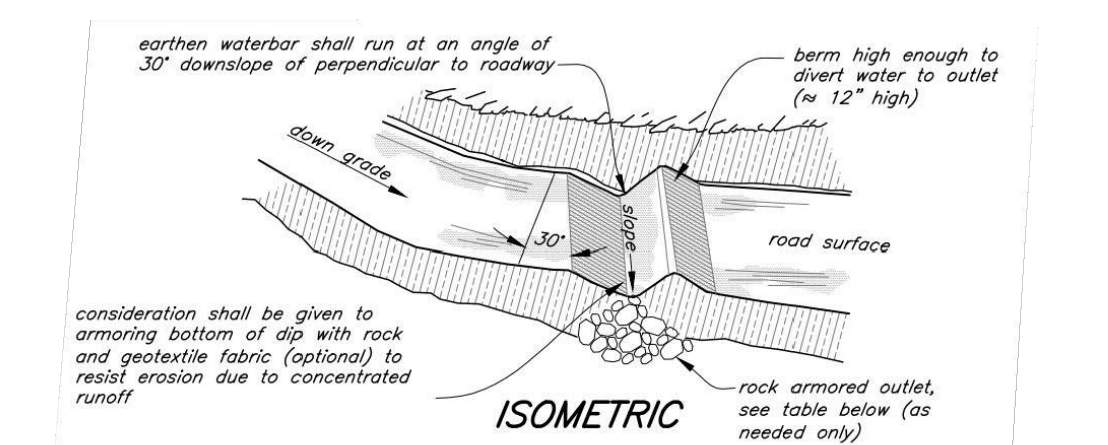


**COMPOST FILTER SOCK CHECK DAM**  
 SCALE: NOT TO SCALE



NOTES:  
 1. PROVIDE EXITS FOR VERNAL POOL AMPHIBIANS IN ACCORDANCE WITH MACC REQUIREMENTS IN LOCATIONS DESIGNATED BY THE CONSERVATION AGENT.

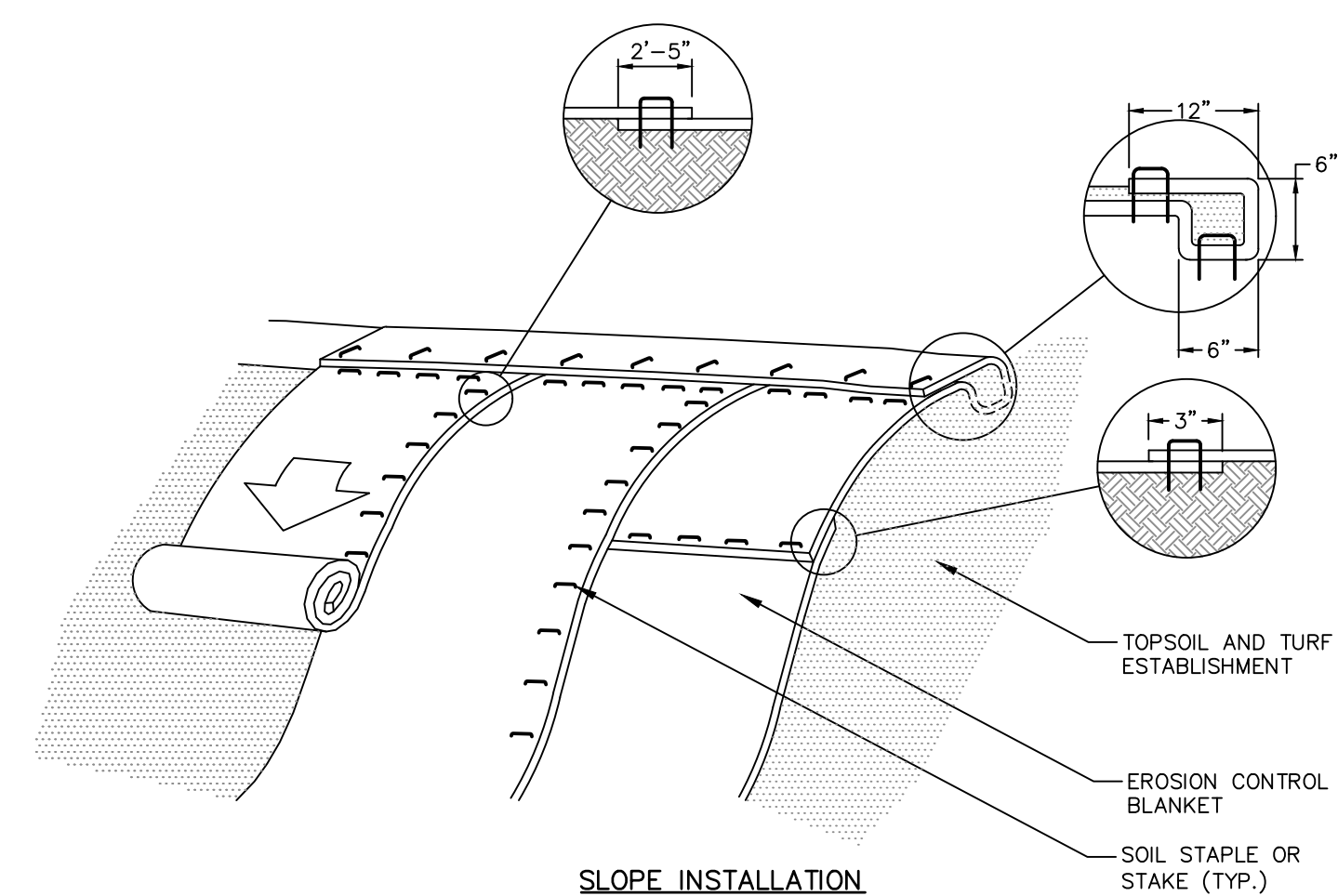
**SILT FENCE**  
 SCALE: NOT TO SCALE



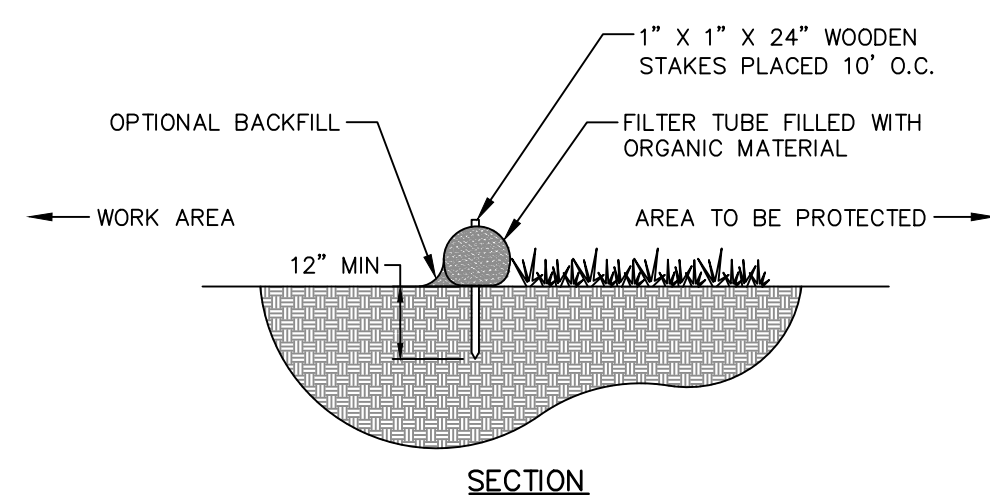
DIMENSIONS	
A	12"
B	12'

NOTES:  
 1. ARMOR ROCK SHALL BE 12" THICK NSA R-3 (D50=6") STONE INSTALLED WITH FS-2 FILTER STONE BASE. ROCK ARMORED OUTLET SHALL BE EXTENDED 5' BEYOND FILL SLOPES.

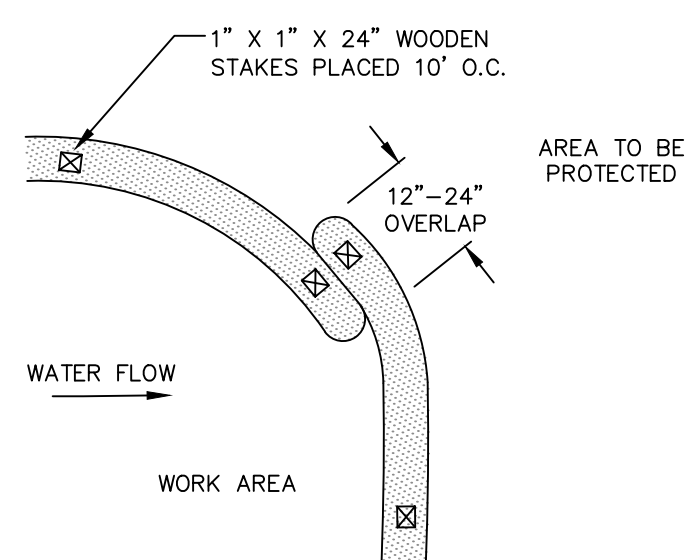
**WATERBAR**  
 SCALE: NOT TO SCALE



**SLOPE INSTALLATION**



**SECTION**

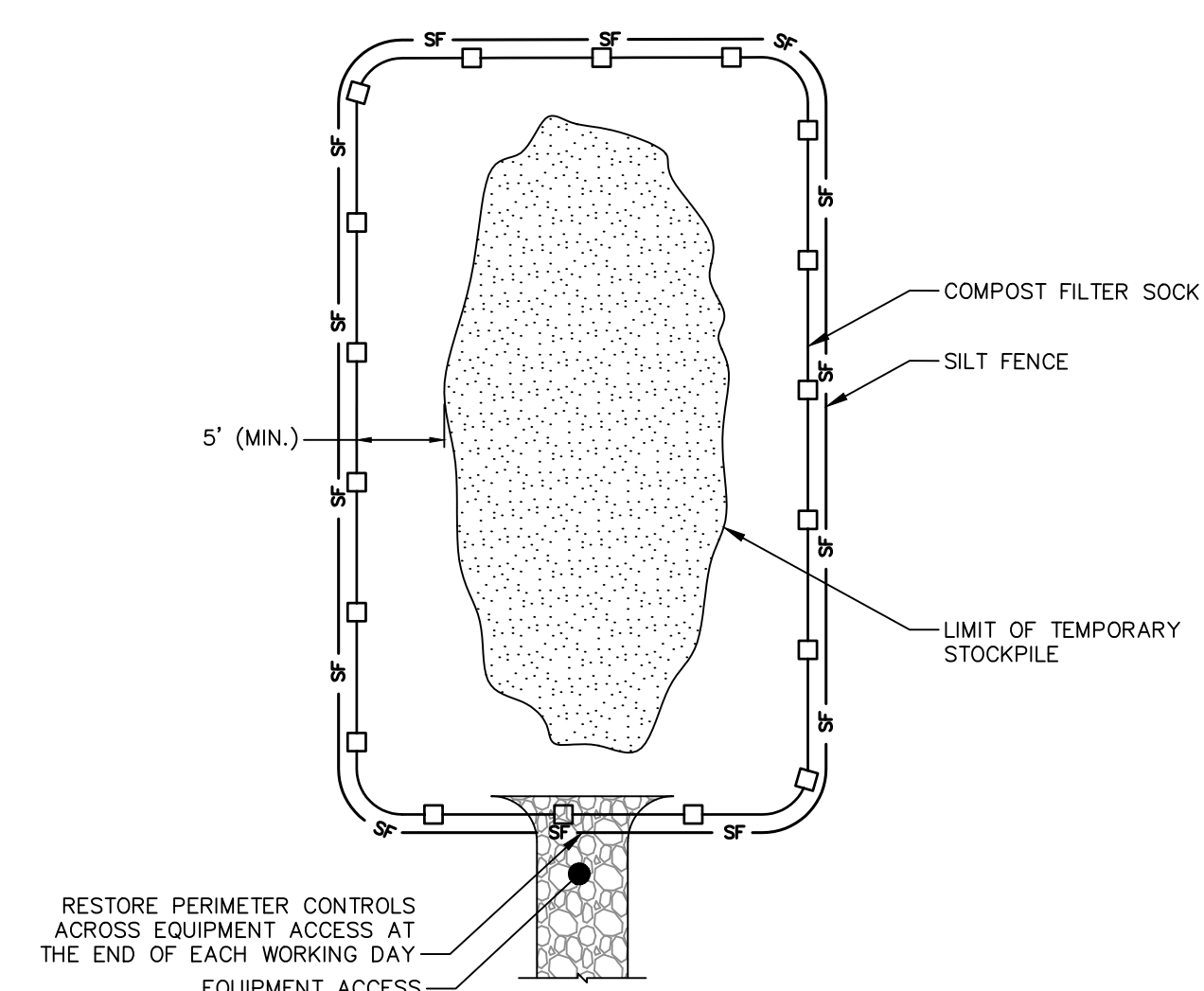


NOTES:  
 1. THE FILTER TUBE EXTERIOR SHALL BE 100% ORGANIC BURLAP OR OTHER BIODEGRADABLE MATERIAL APPROVED BY THE TOWN OF WRENTHAM CONSERVATION COMMISSION, AND WILL BECOME INCORPORATED WITH THE ORGANIC INTERIOR MATERIAL.  
 2. ORGANIC MATTER CONTENT SHALL BE BETWEEN 20-100% (DRY WEIGHT BASIS) AS DETERMINED BY ASTM D2974 (METHOD A) STANDARD TEST METHODS FOR MOISTURE, ASH AND ORGANIC MATTER OF PEAT AND OTHER ORGANIC SOILS.  
 3. MOISTURE CONTENT SHALL BE <150% BY DRY WEIGHT (<60% BY WET WEIGHT) AS MEASURED BY ASTM D2216 STANDARD TEST METHOD FOR LABORATORY DETERMINATION OF WATER CONTENT OF SOIL AND ROCK AND ASTM D2974 (CITED ABOVE).  
 4. PARTICLE SIZE AS MEASURED BY SIEVING SHALL BE AS FOLLOWS:  

SIEVE SIZE	% PASSING
75 MM	100%
19 MM	70-100%
#4	30-75%
#20	20-40%

 NO PARTICLE MAY BE LONGER THAN 150 MM.  
 5. SOLUBLE SALTS IN THE ORGANIC INTERIOR MATERIAL SHALL BE <5.0 MMHOS/CM, AND THE PH OF SAME SHALL BE BETWEEN 5.5 AND 8.0.  
 6. REMOVE SEDIMENT FROM FILTER SOCK WHEN THE HEIGHT REACHES HALF OF THE HEIGHT OF THE FILTER TUBE.  
 7. UPON REMOVAL, RAKE OUT FILTER BERMS SO THAT FILTER MATERIAL IS NO GREATER THAN 3" IN DEPTH ON SOIL SUBSTRATE. EXTERIOR TUBING MATERIAL SHALL BE CUT AND REMOVED AND DISPOSED OF AN AN OFF-SITE LOCATION.

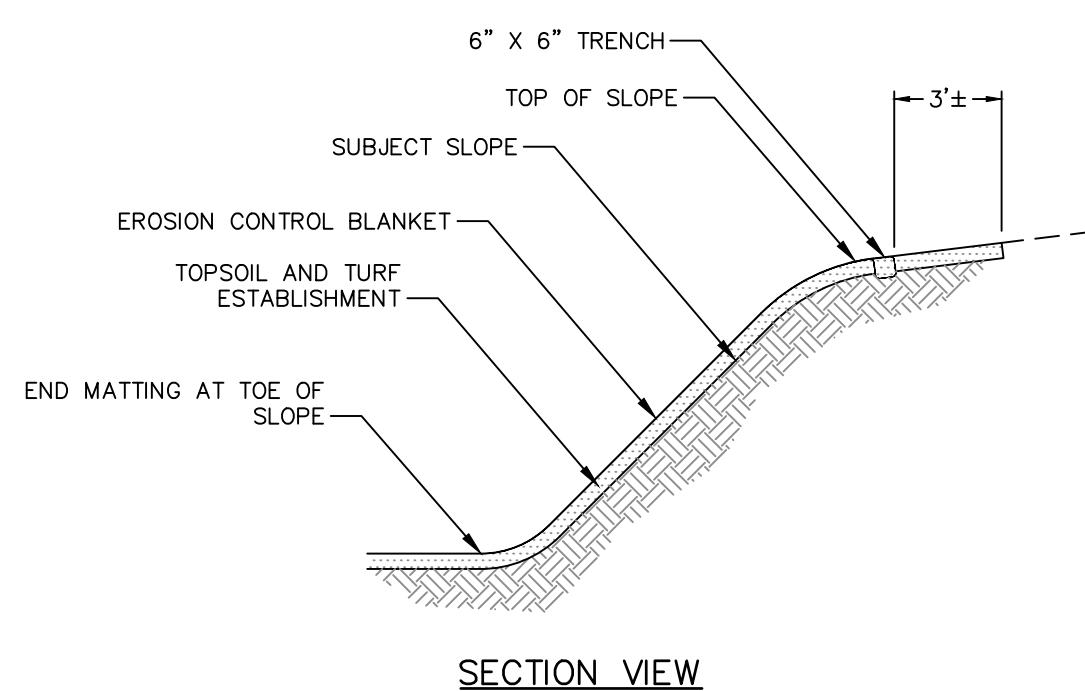
**COMPOST FILTER SOCK**  
 SCALE: NOT TO SCALE



RESTORE PERIMETER CONTROLS ACROSS EQUIPMENT ACCESS AT THE END OF EACH WORKING DAY  
 EQUIPMENT ACCESS

NOTES:  
 1. MAXIMUM SLOPE SHALL BE 2:1.  
 2. TEMPORARILY STABILIZE STOCKPILES THAT WILL REMAIN INACTIVE FOR 7 DAYS OR MORE WITH TEMPORARY VEGETATION, WOODCHIP MULCH, STUMP GRINDINGS, OR JUTE NETS. REFER TO EROSION CONTROL NOTES ON SHEET G-002 FOR ADDITIONAL STABILIZATION REQUIREMENTS.  
 3. DO NOT STOCKPILE WITHIN THE 100-FOOT BUFFER OF A WETLAND RESOURCE AREA.

**STOCKPILE AREA**  
 SCALE: NOT TO SCALE



**SECTION VIEW**

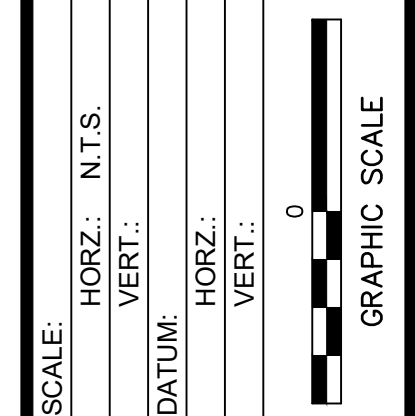
NOTES:  
 1. PREPARE TOPSOIL BEFORE INSTALLING BLANKET, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.  
 2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.  
 3. IN LOOSE SOIL CONDITIONS THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE MATTING.  
 4. BLANKET: BIODEGRADABLE ROLLED BLANKET SUITABLE FOR SLOPES AS STEEP AS 3V:1H, MADE OF STRAW OR COCONUT FIBERS, NETTING, AND THREAD CONFORMING TO THE FOLLOWING:  
 4.1. MINIMUM WIDTH: 6 FEET  
 4.2. OVERLAP: 2 TO 5 INCHES  
 4.3. MINIMUM MESH SIZE: 0.625 BY 0.625 INCHES  
 4.4. MINIMUM WEIGHT: 8 OUNCES PER SQUARE YARD WHEN TESTED IN ACCORDANCE WITH ASTM D6475  
 4.5. MINIMUM THICKNESS: 5/16 INCH WHEN TESTED IN ACCORDANCE WITH ASTM 6525  
 4.6. MINIMUM TENSILE STRENGTH (MD): 200 POUNDS WHEN TESTED IN ACCORDANCE WITH ASTM D6818  
 4.7. MINIMUM TENSILE STRENGTH (TD): 125 POUNDS WHEN TESTED IN ACCORDANCE WITH ASTM D6818  
 4.8. MAXIMUM TENSILE ELONGATION: 20% WHEN TESTED IN ACCORDANCE WITH ASTM 6818  
 4.9. MINIMUM LIGHT PENETRATION: 10% WHEN TESTED IN ACCORDANCE WITH ASTM D6567  
 4.10. MINIMUM LONGEVITY: 24 MONTHS IN EXPOSED CONDITIONS

**EROSION CONTROL BLANKET**  
 SCALE: NOT TO SCALE

APPROVED BY THE TOWN OF WRENTHAM PLANNING BOARD

DATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM
2.	10/21/2021	REVISED PER TOWN COMMENTS	JHD	KCM
3.	12/22/2021	REVISED PER TOWN COMMENTS	JHD	KCM
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5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM



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NEXTGRID INC.  
**EROSION & SEDIMENT CONTROL**  
 DETAILS  
 80 WASHINGTON STREET  
 WRENTHAM MASSACHUSETTS

PROJ. No.: 20190629.C10  
 DATE: 08/23/2021

**CD-502**



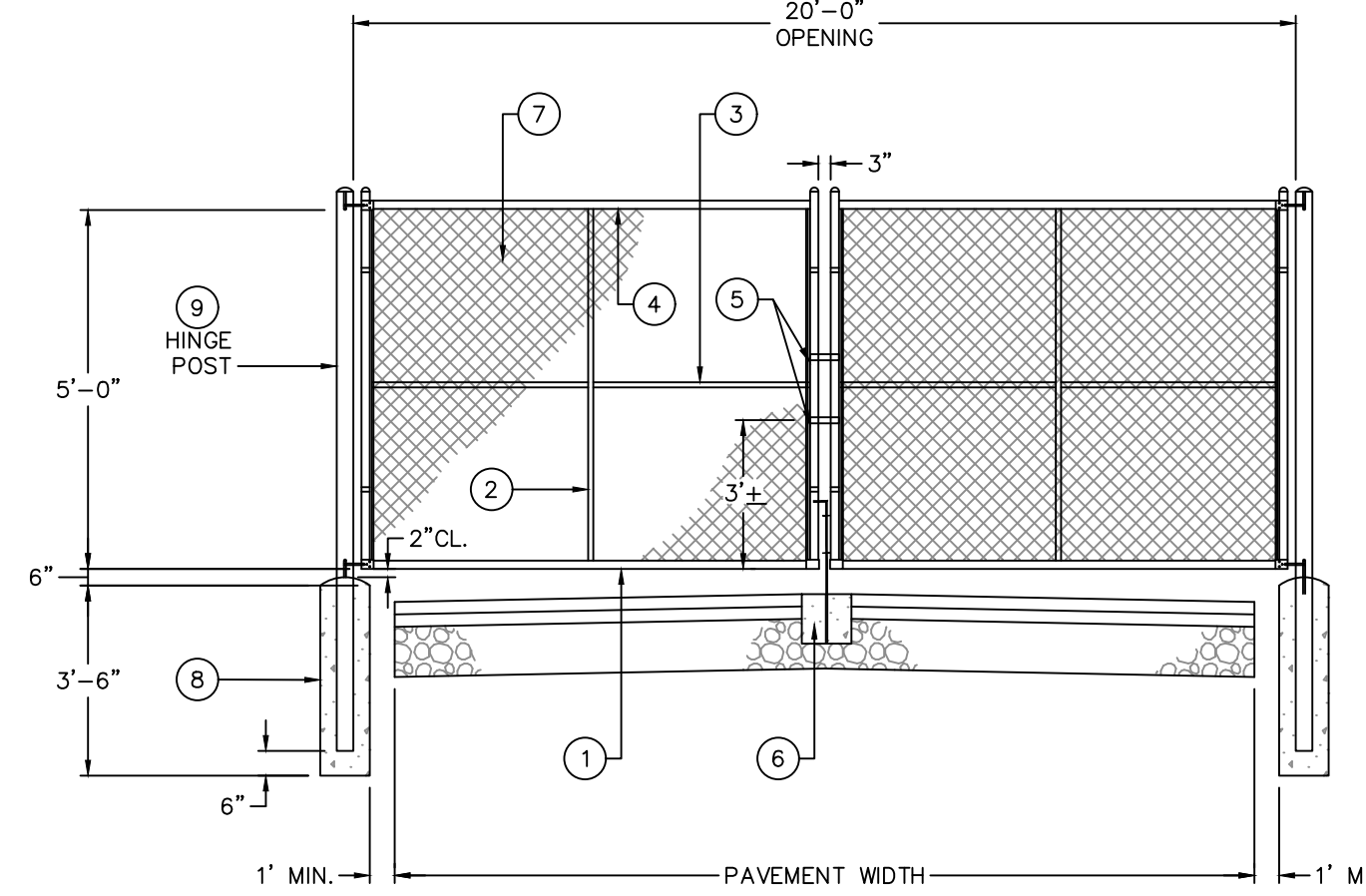
**TRANSITION CLEARING SCHEMATIC SECTION**  
SCALE: NOT TO SCALE

**TRANSITION CLEARING NOTES:**

SELECTIVE CLEARING, CLEARING, AND CLEARING AND GRUBBING LIMITS ARE DEPICTED ON SITE PREPARATION PLANS. CLEARING SEQUENCE, AS OUTLINED IN THE CONSTRUCTION SEQUENCE ON THE GENERAL NOTES AND LEGEND SHEET, MUST BE FOLLOWED.

THE FOLLOWING PARAMETERS SHALL APPLY FOR CLEARING DURING CONSTRUCTION:

1. SELECTIVE CLEARING - TREES ARE TO BE CUT TO A MAXIMUM HEIGHT OF 15 FEET. TREES AND UNDERSTORY LESS THAN 15 FEET IN HEIGHT SHALL REMAIN TO THE MAXIMUM EXTENT PRACTICABLE. STUMPS ARE CUT FLUSH TO THE GROUND AND SHALL NOT BE REMOVED.
2. CLEARING - TREES ARE TO BE CUT AT GROUND LEVEL. UNDERSTORY AND BRUSH LESS THAN 5 FEET IN HEIGHT SHALL REMAIN TO MAXIMUM EXTENT PRACTICABLE. STUMPS ARE CUT FLUSH TO THE GROUND AND SHALL NOT BE REMOVED.
3. CLEARING AND GRUBBING - TREES, UNDERSTORY, AND STUMPS SHALL BE REMOVED.

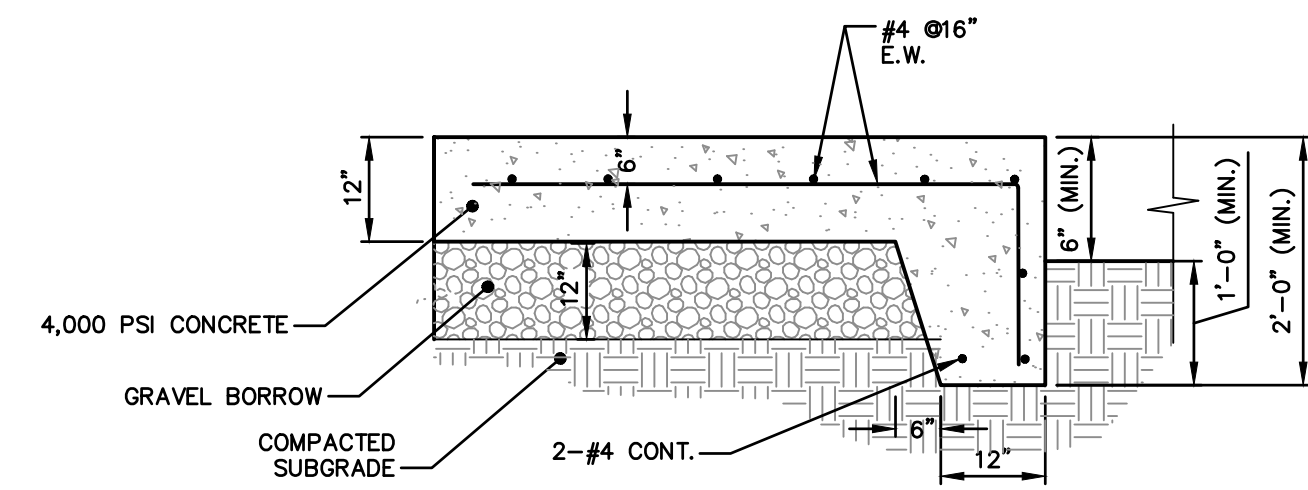


**CHAIN LINK DOUBLE LEAF SWING GATE LEGEND**

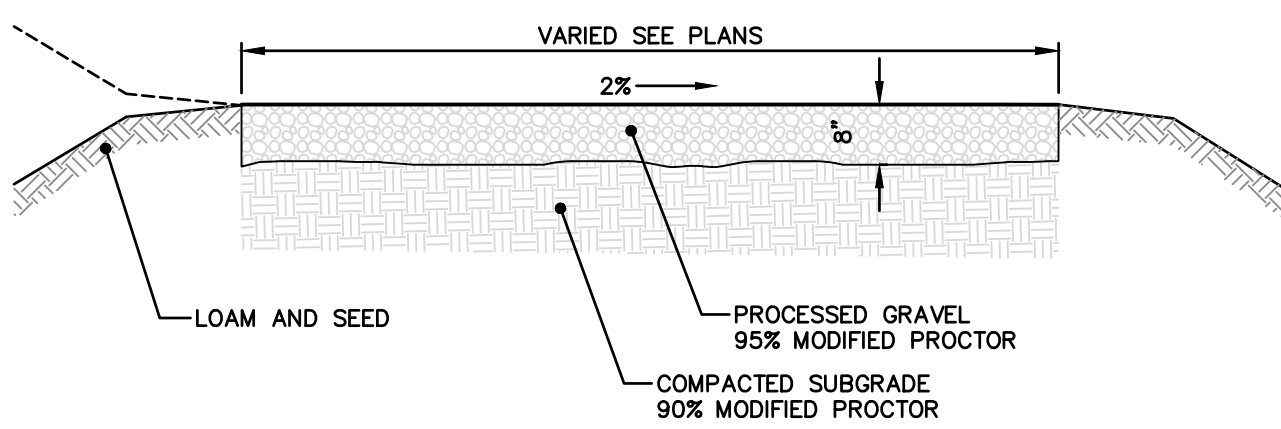
- 1 2" SQUARE FRAME WELDED TO FORM FOUR SIDES OF LEAF
- 2 1 1/4" SQUARE UPRIGHT BRACING WELDED TO FRAME
- 3 1 1/4" SQUARE HORIZONTAL BRACING WELDED TO FRAME
- 4 TENSION BAR ATTACHED TO FRAME ON ALL FOUR SIDES WITH HOOK BOLTS
- 5 PADLOCK AND LATCH DEVICE
- 6 12" DIA. x 12" DEEP CONC. COLLAR WITH STEEL PIPE FOR SET PIN. COLLAR AND PIPE SET FLUSH WITH PAVEMENT. PIPE TO DRAIN INTO GRAVEL BASE.
- 7 9 GAUGE 2" WIRE MESH BLACK VINYL COATED FABRIC.
- 8 HINGE POST FOOTING SHALL BE 3000 PSI CONCRETE. DIAMETER SHALL BE 4 TIMES POST WIDTH (MIN.)
- 9 SEE GATE TABLE

GATE TABLE	
OPENING	HINGE POST
8'-0" - 12'-0"	2 1/2" SQUARE
14'-0" - 24'-0"	3" SQUARE
26'-0" - 36'-0"	6" SQUARE
38'-0" - 40'-0"	8" SQUARE

**CHAIN LINK DOUBLE LEAF SWING GATE**  
SCALE: NOT TO SCALE

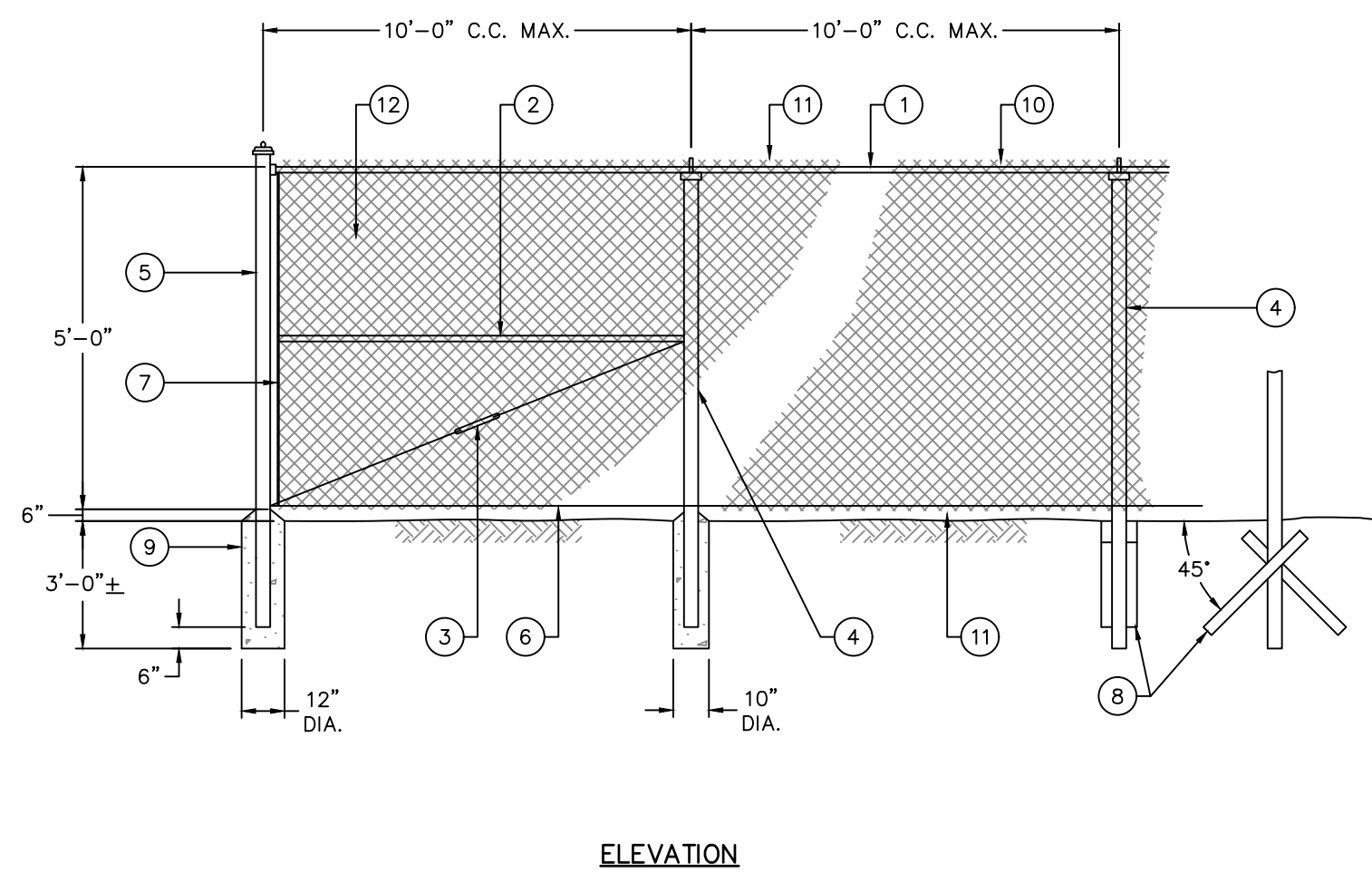


**CONCRETE UTILITY PAD**  
SCALE: NOT TO SCALE



- NOTES:**
1. REMOVE TOPSOIL AND SUBSOIL, GRADE AND COMPACT SUBGRADE TO ACHIEVE UNIFORM SLOPES.
  2. ROAD CROSS-SLOPE SHALL BE 2% AND SHALL MAINTAIN SHEET FLOW TO ADJACENT VEGETATED AREAS.
  3. MAXIMUM ROAD GRADE SHALL BE 10%.

**GRAVEL ACCESS ROAD**  
SCALE: NOT TO SCALE



**CHAIN LINK FENCE**  
SCALE: NOT TO SCALE

**NOTES**

1. FOOTING DESIGN TO BE CHECKED BY AN ENGINEER FOR WIND LOADS IF SLATS ARE USED OR IF POOR SOIL CONDITIONS EXIST.
2. STRAIGHT RUNS BETWEEN BRACED POSTS SHALL NOT EXCEED 500 FT.
3. FENCE DETAILS ARE INTENDED AS A GUIDE ONLY. ALL FENCE MATERIALS AND CONSTRUCTION METHODS SHALL BE APPROVED BY THE ENGINEER AND FENCE MANUFACTURER.

**CHAIN LINK FENCE LEGEND**

- 1 1 5/8" O.D. TOP RAIL ATTACH FABRIC WITH 9 GAUGE WIRE CLIP EVERY 24"
  - 2 1 5/8" O.D. BRACE FOR RAIL FENCES OVER 6 FEET HIGH AND ALL FENCES WITHOUT TOP RAIL
  - 3 5/16" TRUSS ROD AND TURNBUCKLE
  - 4 INTERMEDIATE POST
- | FENCE HEIGHT    | SQUARE POST | ROUND POST |
|-----------------|-------------|------------|
| 6 FEET AND LESS | 1 7/8"      | 2"         |
| OVER 6 FEET     | 2 1/4"      | 2 1/2"     |
- ATTACH TO C.L. FABRIC WITH CLIPS EVERY 15"
- 5 END OR CORNER POST
- | FENCE HEIGHT    | SQUARE POST | ROUND POST |
|-----------------|-------------|------------|
| 6 FEET AND LESS | 2"          | 2 1/2"     |
| OVER 6 FEET     | 2 1/2"      | 3"         |
- 6 6 GAUGE BOTTOM TENSION WIRE ATTACH TO FABRIC WITH HOG RING AT 24" C.C.
  - 7 TENSION ROD ATTACHED TO END OR CORNER POST
  - 8 2 30" MIN. LENGTH DRIVE ANCHORS DRIVEN THROUGH FITTINGS AT 90° TO FENCE LINE INTO EARTH AT 45° (TO BE USED IN PLACE OF CONCRETE FOOTING. SEE FOOTING DESIGN NOTE NO. 1)
  - 9 CONCRETE FOOTING 36" DEEP WITH 12" DIA. AT END POST AND 10" DIA. AT INTERMEDIATE POST. HOLE CORE IN UNDISTURBED OR COMPACTED SOIL. (SEE NOTE NO. 1)
  - 10 6 GAUGE TENSION WIRE WHEN TOP RAIL IS NOT USED.
  - 11 FABRIC SELVAGE: UNDER 6 FEET SHALL BE KNUCKLED TOP AND BOTTOM. 6 FEET AND OVER SHALL BE KNUCKLED BOTTOM AND TWISTED ON THE TOP. RECREATIONAL FENCING, REGARDLESS OF HEIGHT, SHALL BE KNUCKLED TOP AND BOTTOM.
  - 12 9 GAUGE 2" WIRE MESH FABRIC (COMMERCIAL) BLACK VINYL COATED.

APPROVED BY THE TOWN OF WRENTHAM PLANNING BOARD

DATE:

DESIGNER	JHD	KCM
REVIEWER	JHD	KCM
DATE	2/7/2022	REVISOR
NO.	5.	REVISION
DESCRIPTION	REVISED PER TOWN COMMENTS	
DATE	1/20/2022	REVISOR
NO.	4.	REVISION
DESCRIPTION	REVISED PER TOWN COMMENTS	
DATE	12/22/2021	REVISOR
NO.	3.	REVISION
DESCRIPTION	REVISED PER TOWN COMMENTS	
DATE	10/21/2021	REVISOR
NO.	2.	REVISION
DESCRIPTION	REVISED PER TOWN COMMENTS	
DATE	10/8/2021	REVISOR
NO.	1.	REVISION
DESCRIPTION	REVISED PER TOWN COMMENTS	

SCALE: HORZ.: N.T.S. VERT.: N.T.S. DATUM: VERT.: 0 GRAPHIC SCALE

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**MASSACHUSETTS**

**WRENTHAM**

80 WASHINGTON STREET

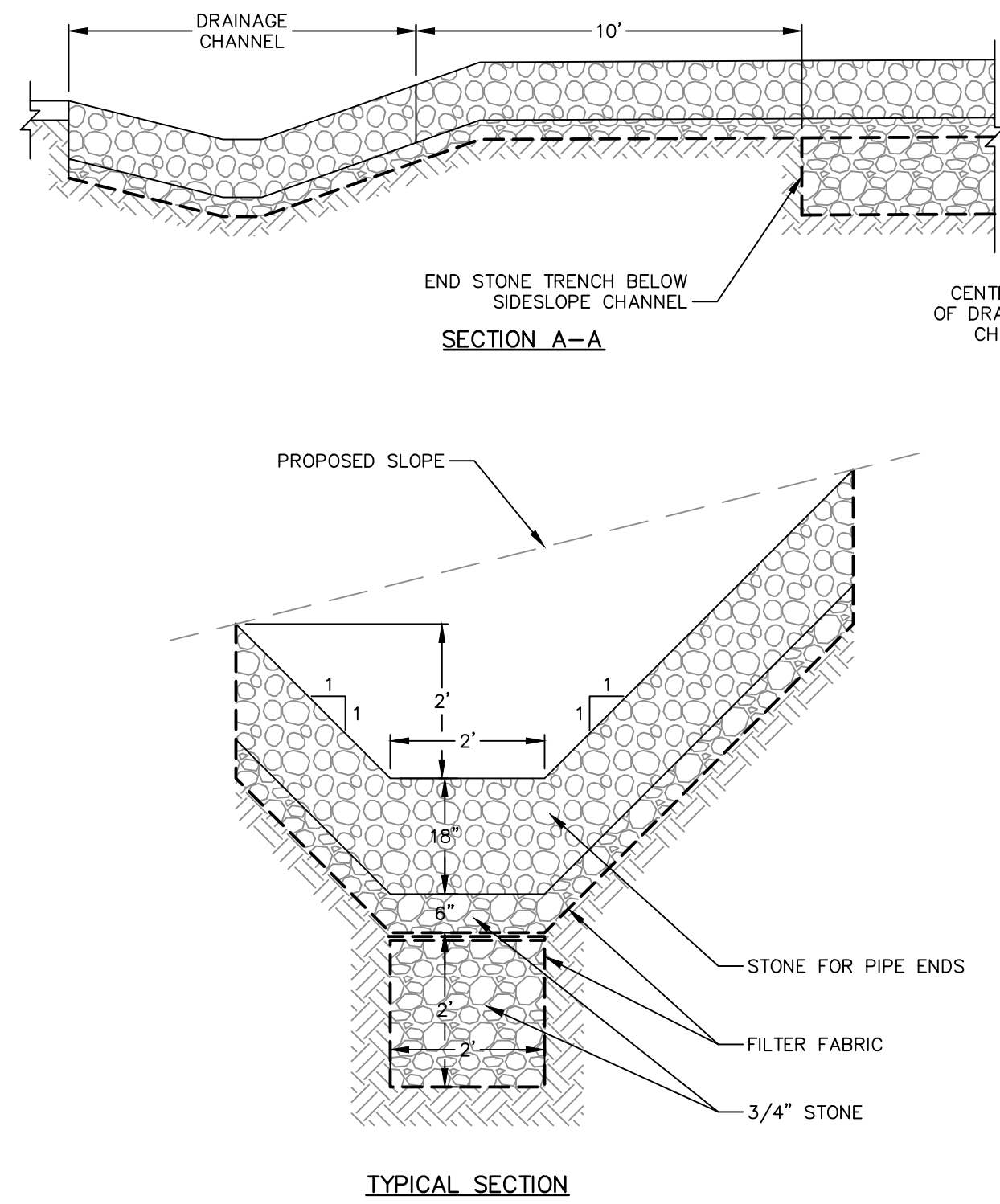
CONSTRUCTION DETAILS

NEXTGRID INC.

PROJ. No.: 20190629.C10  
DATE: 08/23/2021

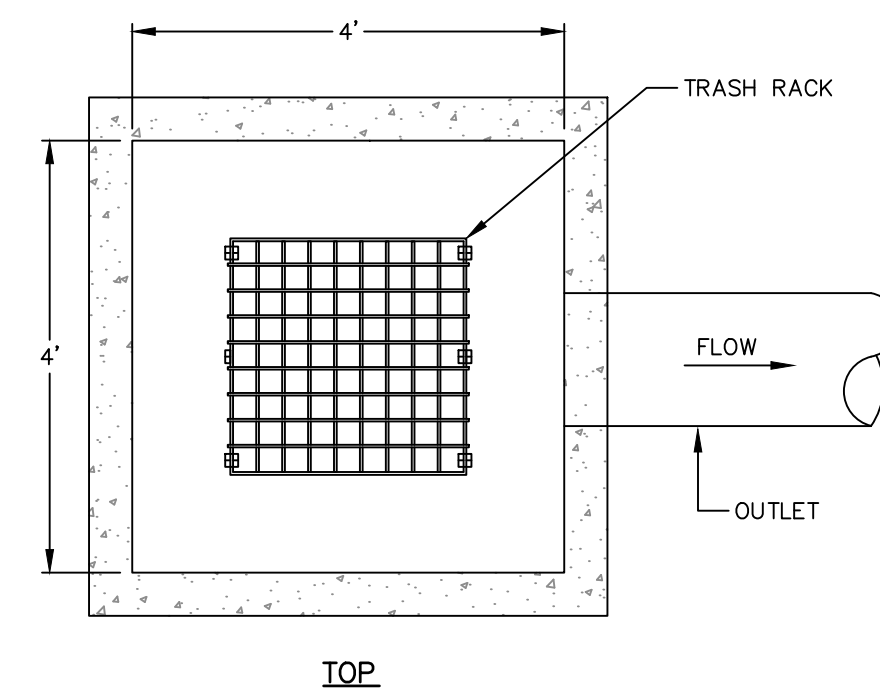
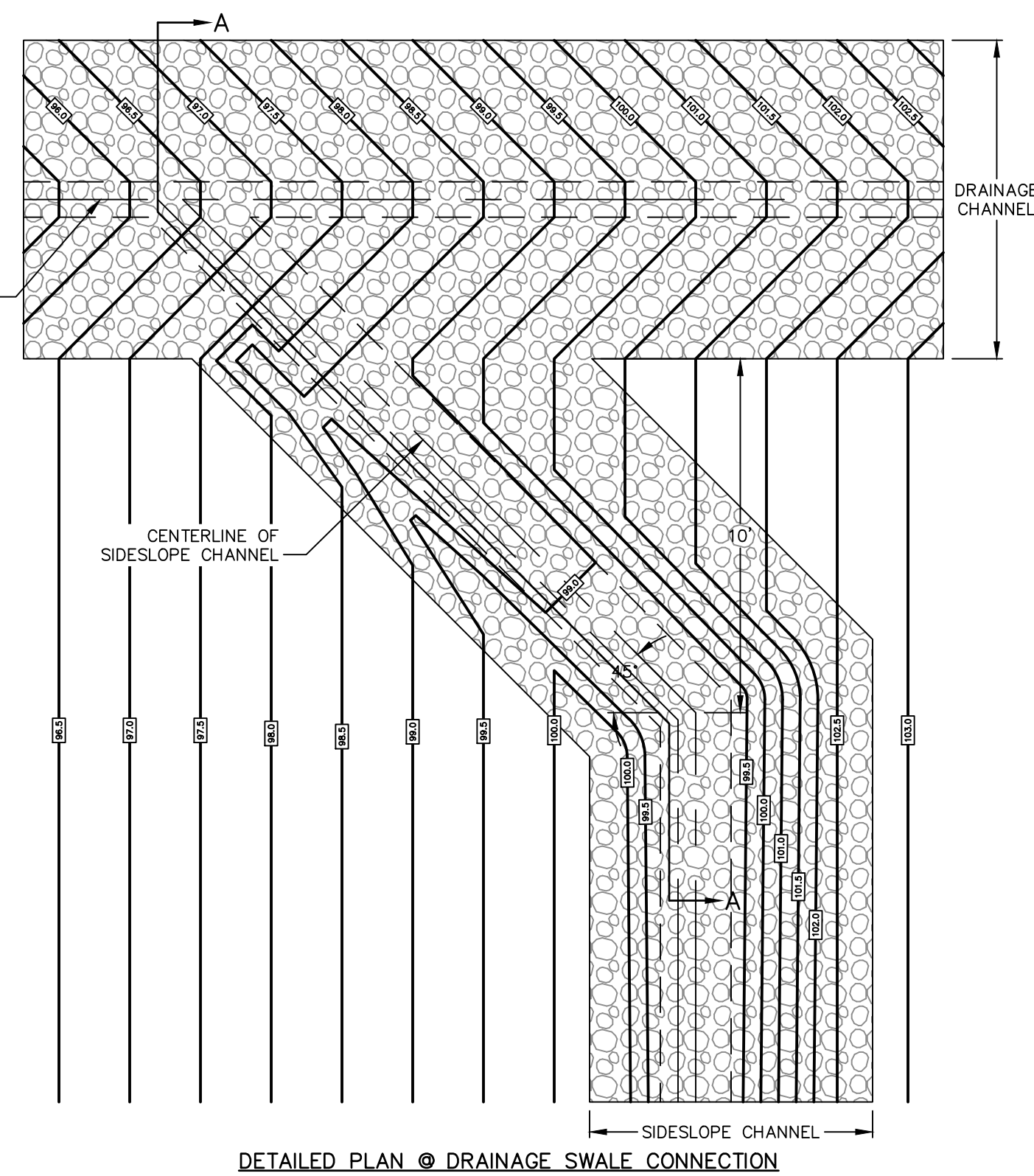
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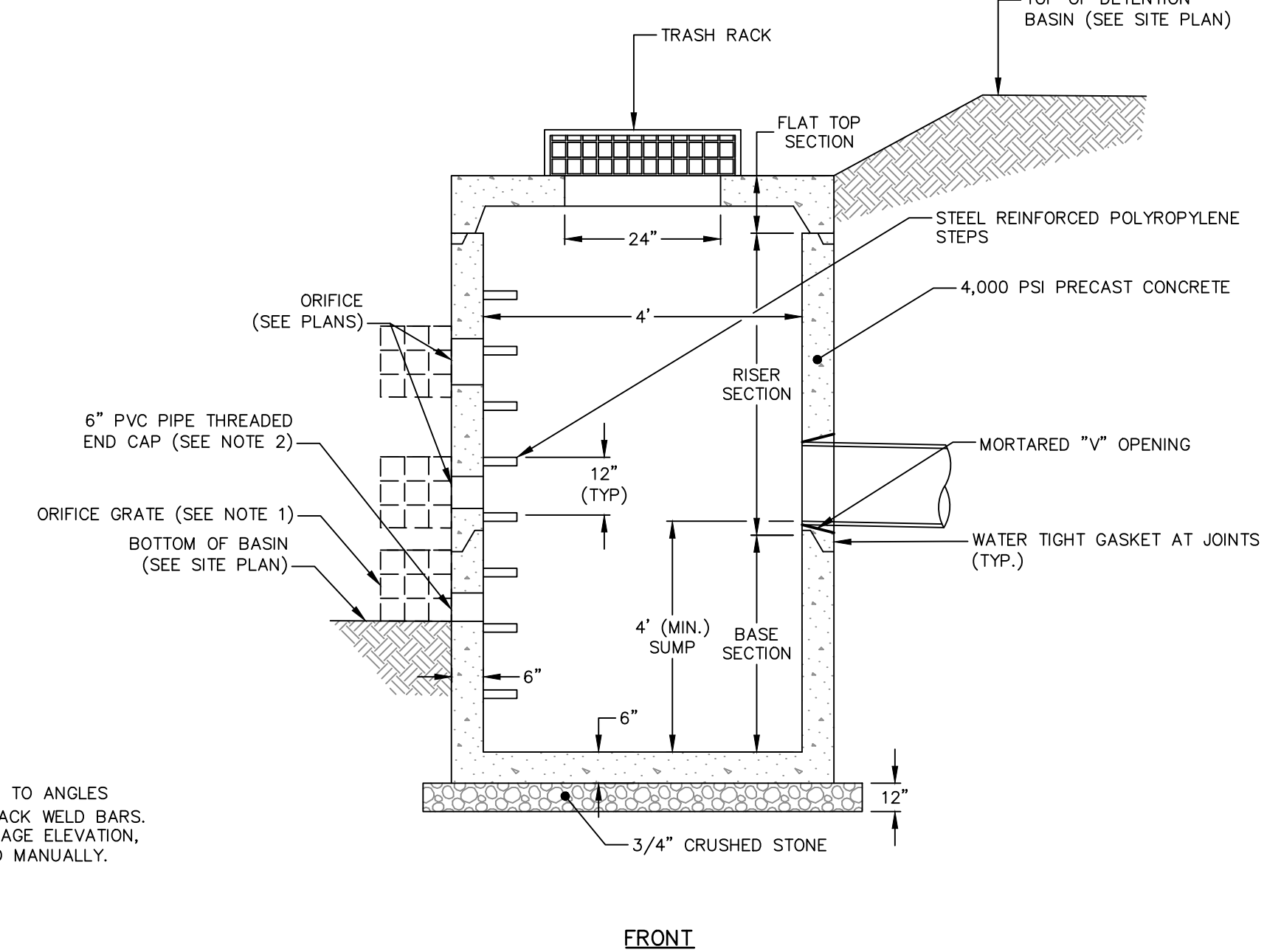
- NOTES:  
 1. FILTER FABRIC SHALL BE WRAPPED UP THE SIDES OF THE RIPRAP AT THE START AND END OF THE CHANNEL.  
 2. REPRESENTATIVE GRADING DEPICTED IN PARTIAL PLAN. SEE PLANS FOR ADDITIONAL GRADING INFORMATION.

**SIDESLOPE CHANNEL**  
 SCALE: NOT TO SCALE



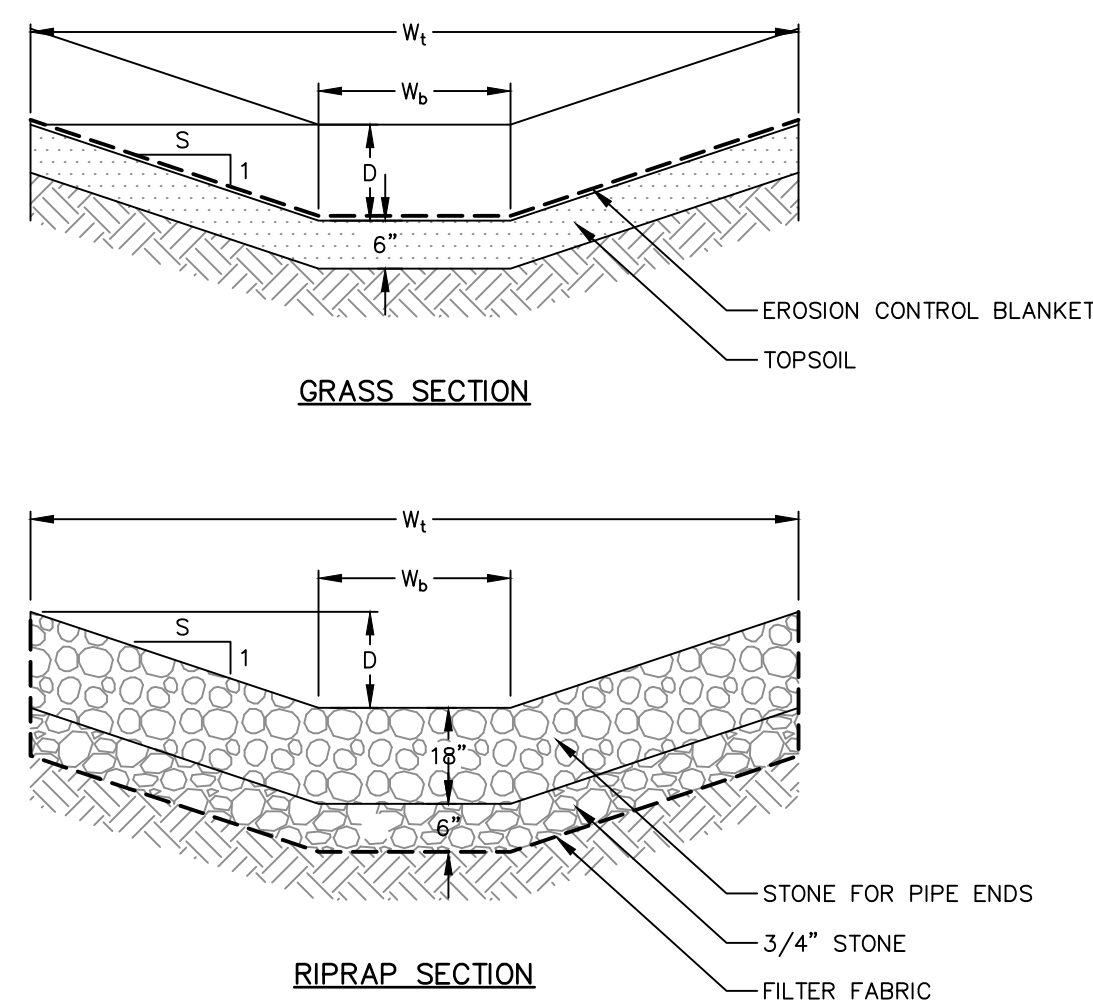
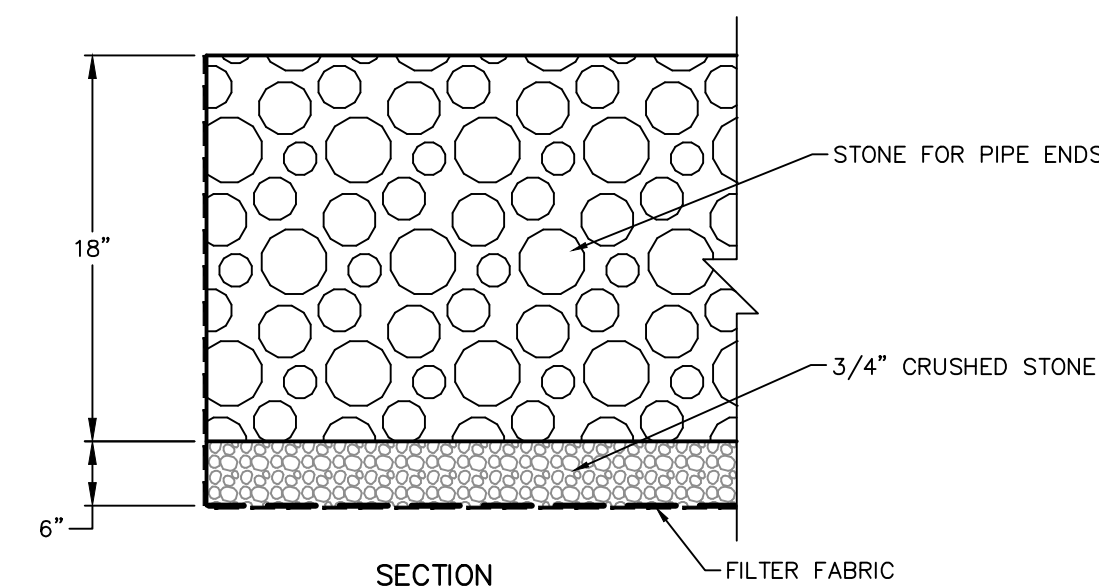
- NOTES:  
 1. CONSTRUCT ORIFICE GRATES OVER OPENINGS. #3 BARS AT 6" O.C. WELD TO ANGLES 2"x2"x1/4" AND BOLT TO STRUCTURE USING 1/2" EXPANSION ANCHORS. TACK WELD BARS.  
 2. FOR STRUCTURES THAT DO NOT HAVE AN ORIFICE AT THE LOWEST STORAGE ELEVATION, PROVIDE A 6" PVC PIPE AND END CAP TO ALLOW BASIN TO BE DRAINED MANUALLY.

**OUTLET CONTROL STRUCTURE**  
 SCALE: NOT TO SCALE



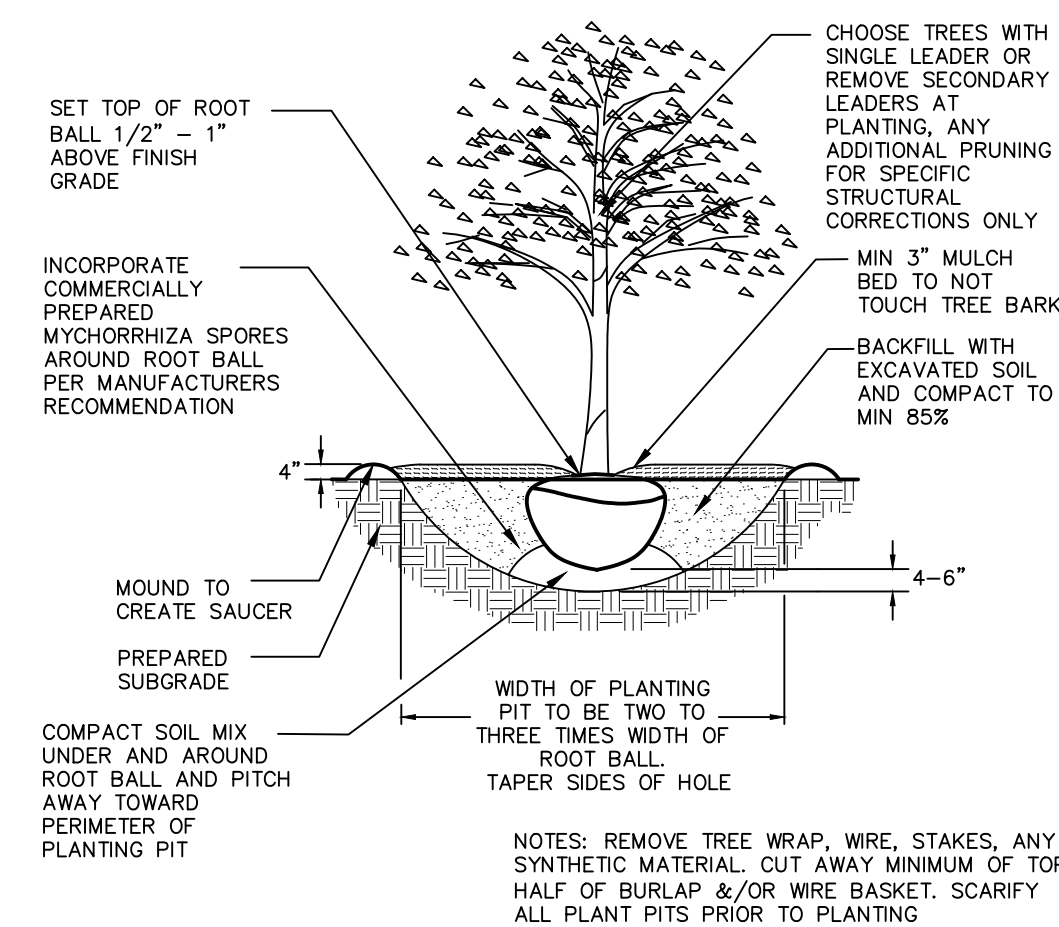
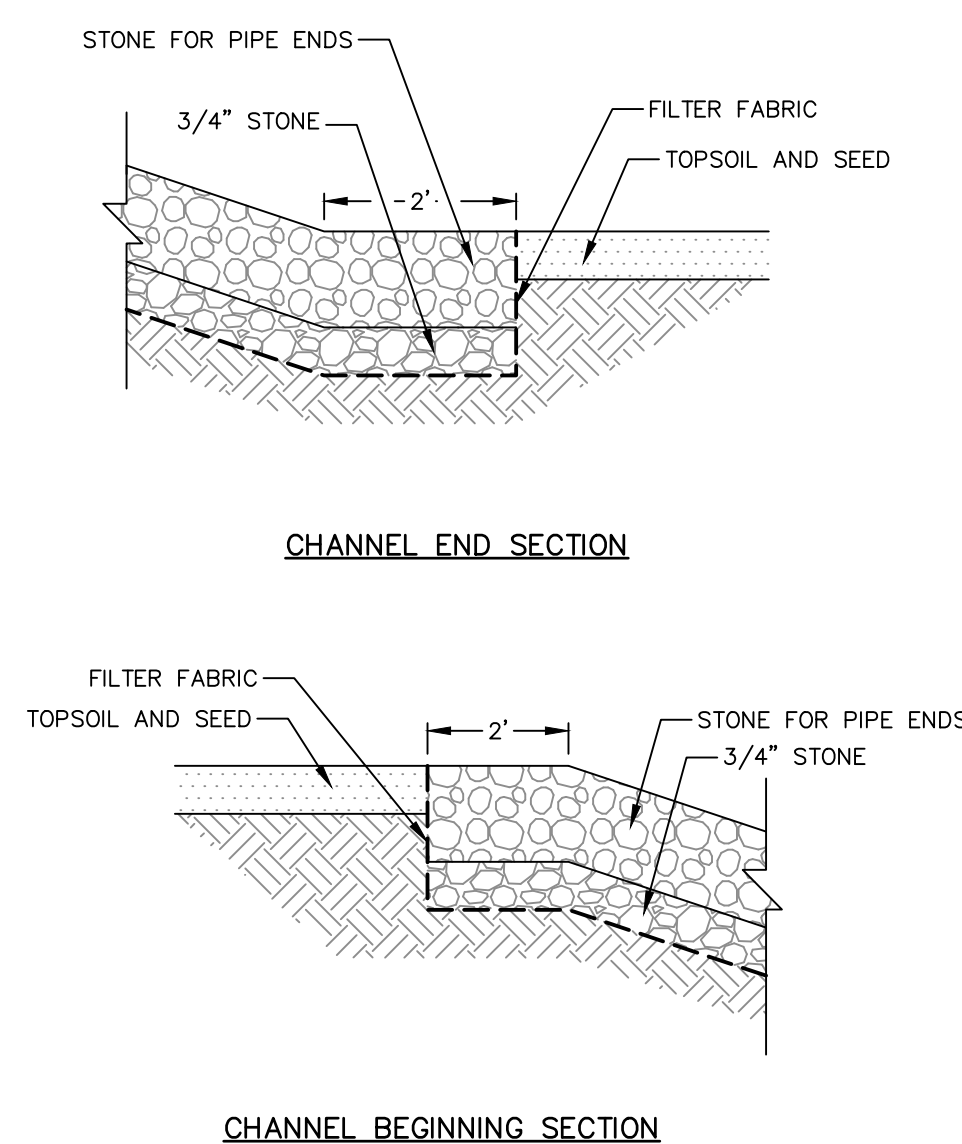
- NOTES:  
 1. FILTER FABRIC SHALL BE WRAPPED UP THE SIDES OF THE RIPRAP AT THE START AND END OF THE STONE LINING.

**STONE LINING**  
 SCALE: NOT TO SCALE

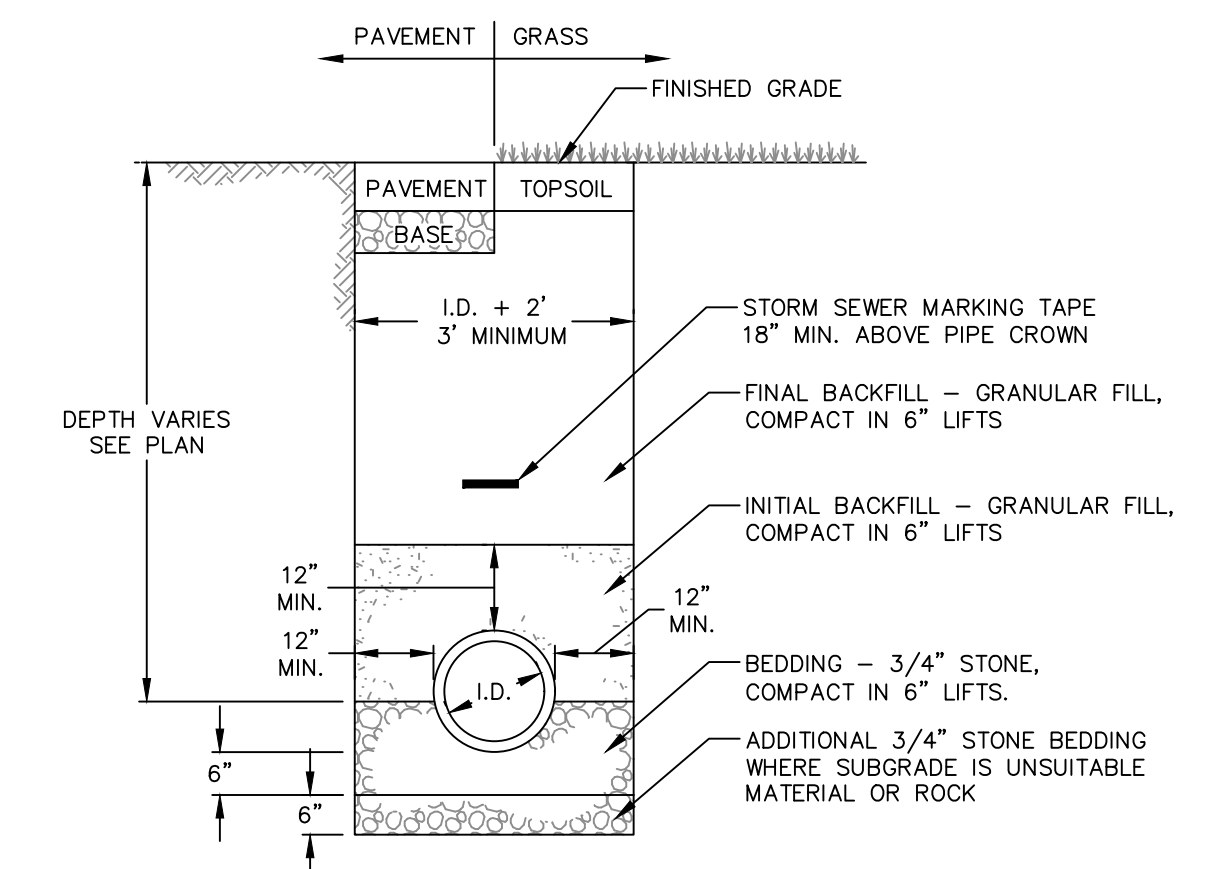


- NOTES:  
 1.  $W_1 = W_0 + S \times D \times 2$   
 2. FILTER FABRIC SHALL BE WRAPPED UP THE SIDES OF THE RIPRAP AT THE START AND END OF THE CHANNEL.

**DRAINAGE CHANNEL**  
 SCALE: NOT TO SCALE



**TREE PLANTING**  
 SCALE: NOT TO SCALE



**STORM SEWER TRENCH**  
 SCALE: NOT TO SCALE

APPROVED BY THE TOWN OF WRENTHAM PLANNING BOARD

DATE:



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DATUM:	HORIZ: N.T.S.	VERT: N.T.S.
GRAPHIC SCALE:	0	

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MASSACHUSETTS  
 NEXTGRID INC.  
 CONSTRUCTION DETAILS  
 80 WASHINGTON STREET  
 WRENTHAM

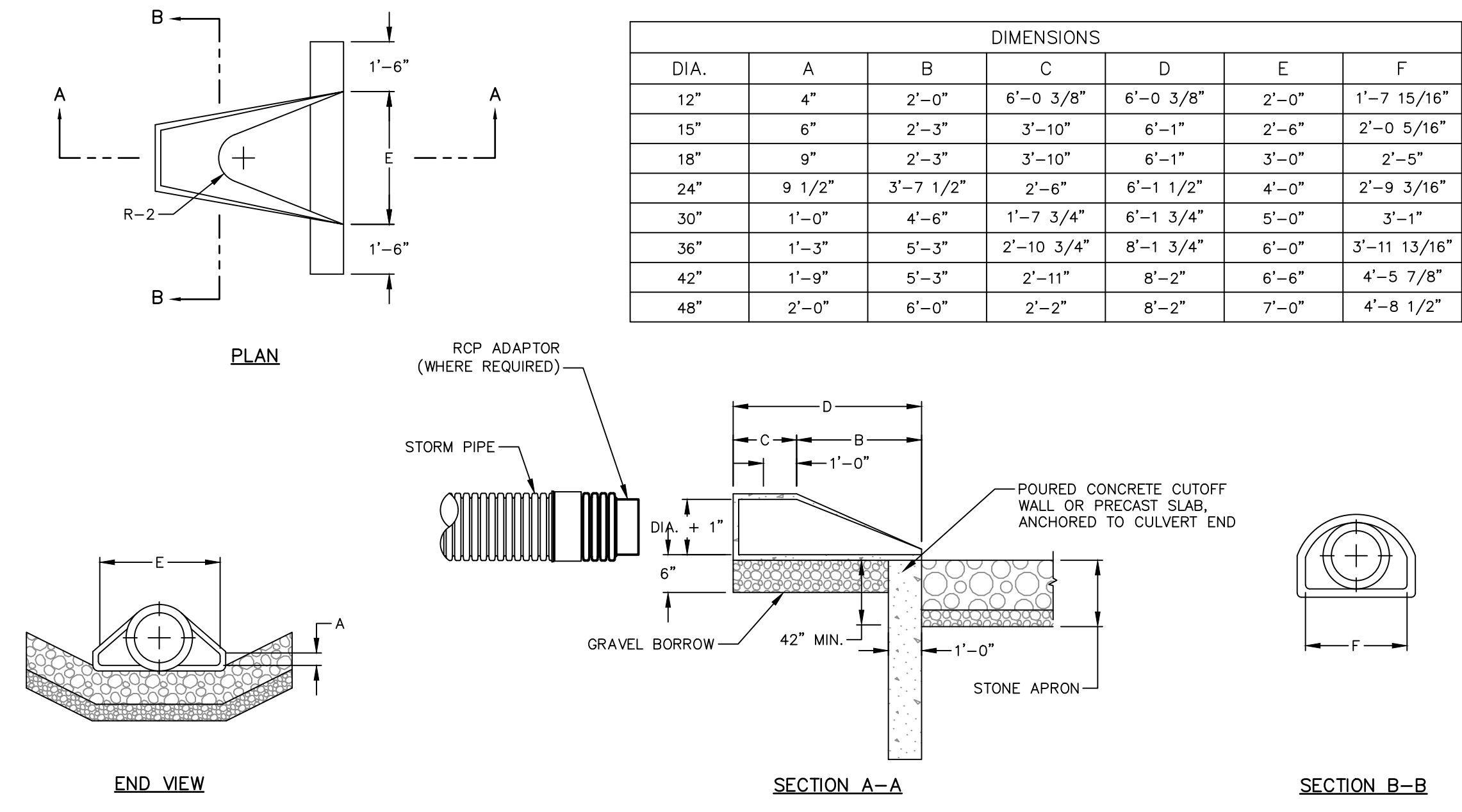
PROJ. No.: 20190629.C10  
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CD-504

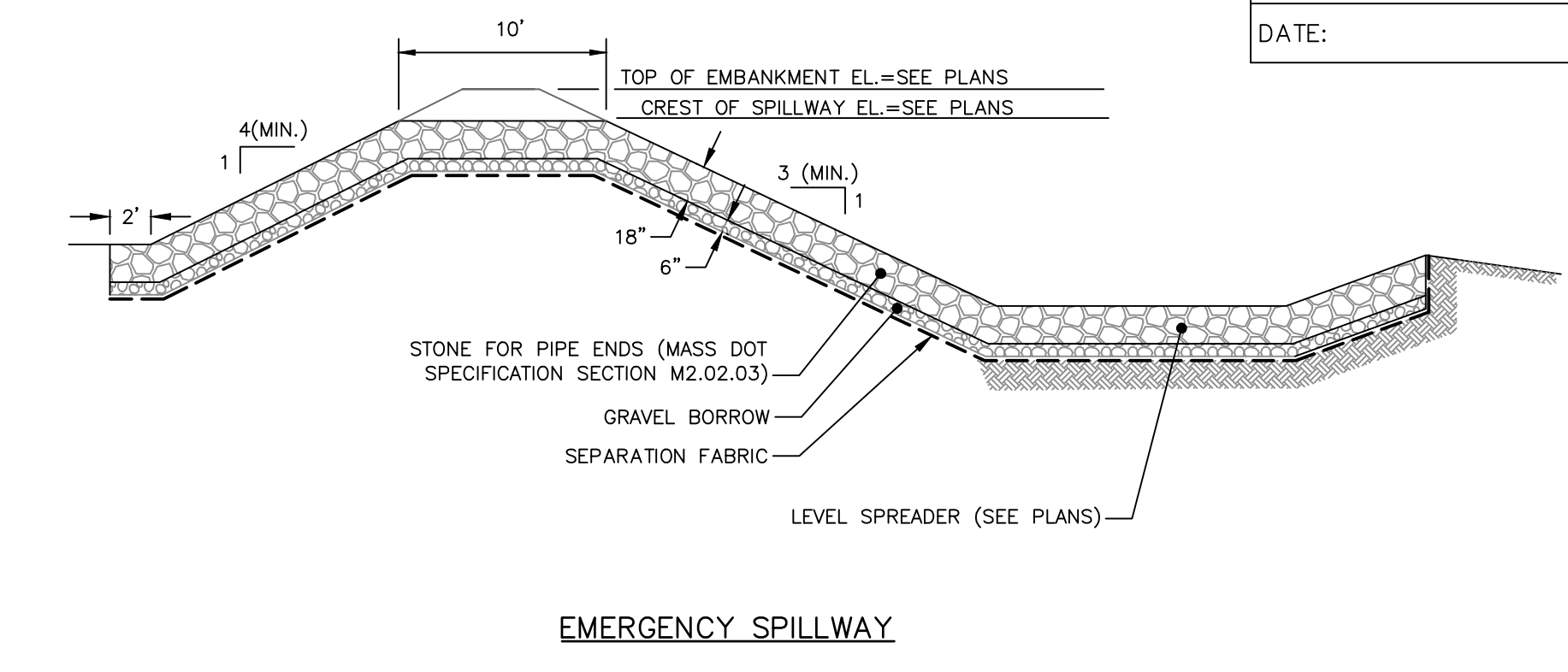
No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.	10/8/2021	REVISED PER TOWN COMMENTS	JHD	KCM
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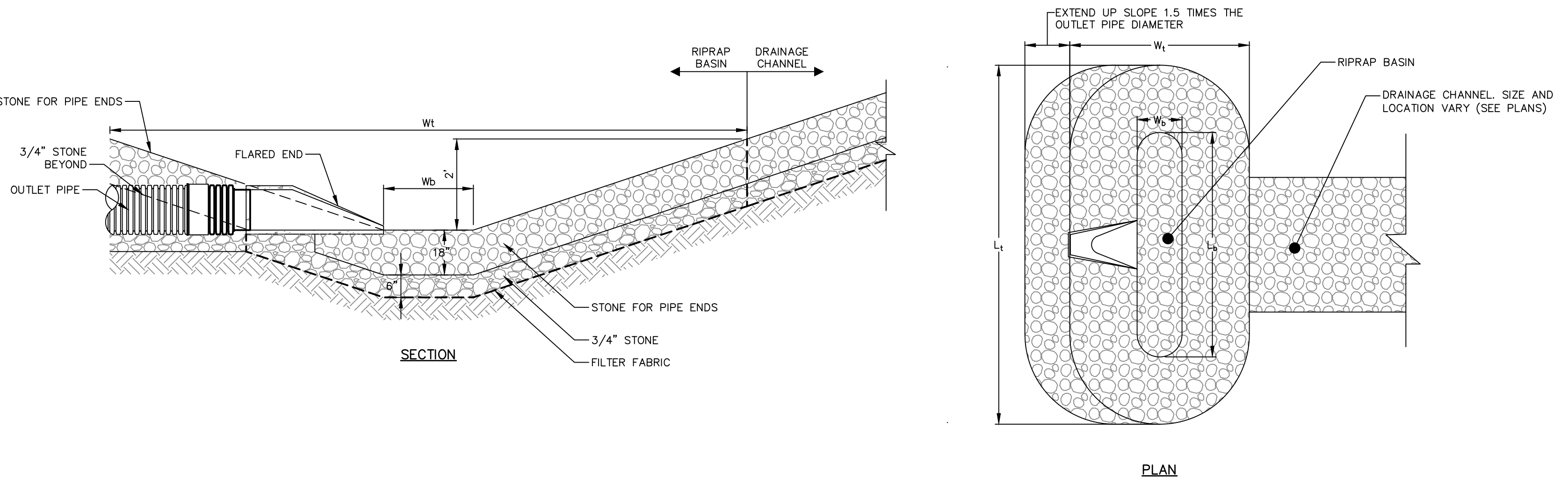
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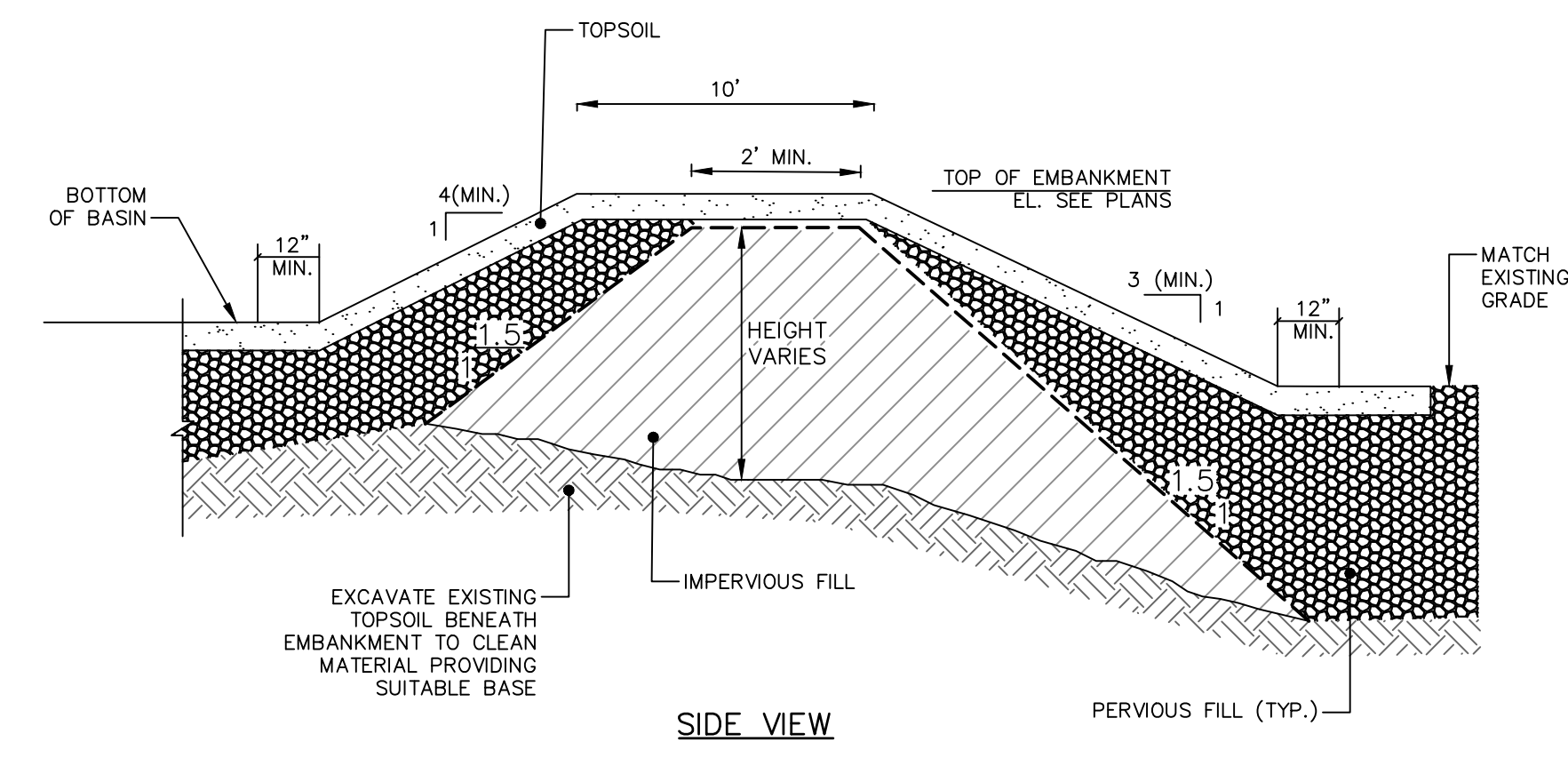
**REINFORCED CONCRETE CULVERT END (R.C.C.E)**  
SCALE: NOT TO SCALE



**EMERGENCY SPILLWAY**



**RIPRAP BASIN**  
SCALE: NOT TO SCALE

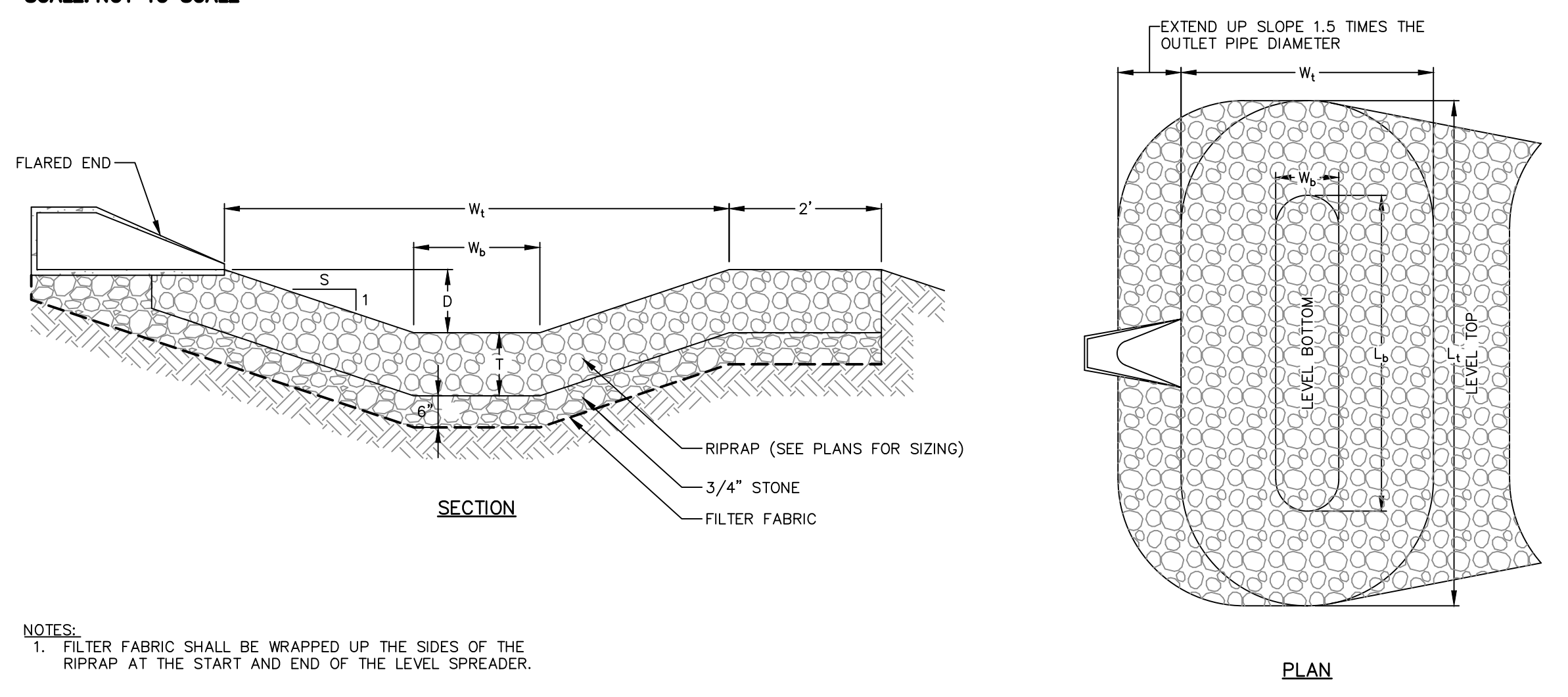


**SIDE VIEW**

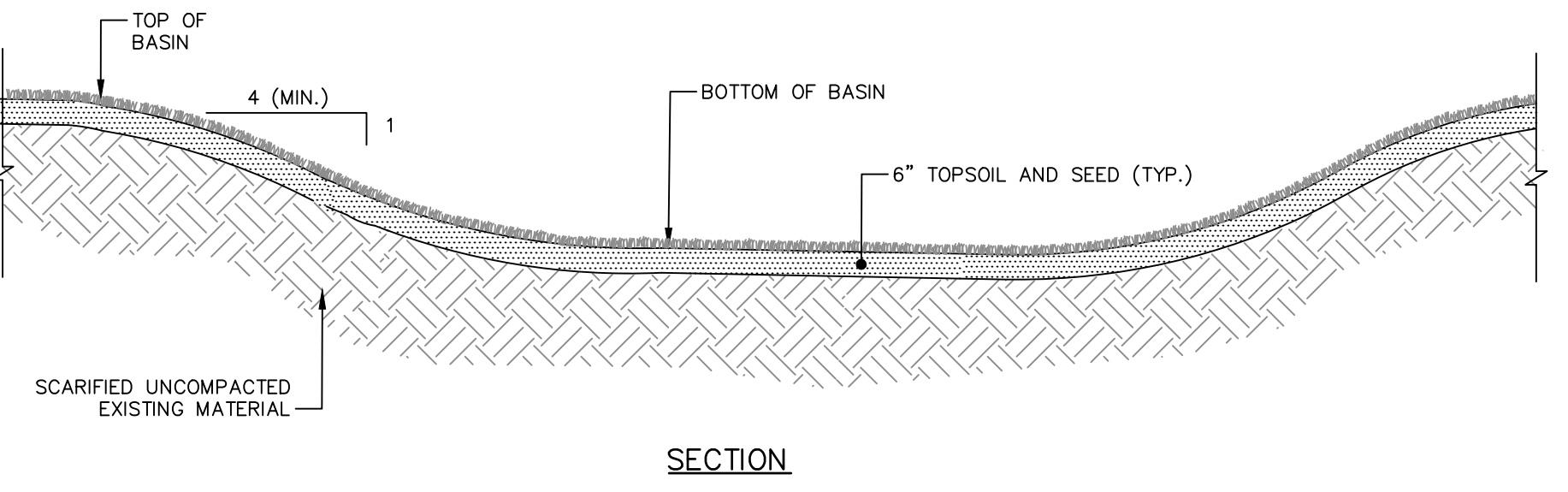
- NOTES:**
- IMPERVIOUS MATERIAL FOR USE IN BASIN EMBANKMENT AREAS AND WHERE SHOWN ON THE PLANS SHALL BE COMPOSED OF SATISFACTORY ON-SITE MATERIAL OR BORROW SOIL MATERIALS WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE FROM EXCAVATIONS. SATISFACTORY ON-SITE MATERIAL SHALL HAVE SOIL CLASSIFICATION GROUPS OF GW, GP, GM, SW, SP, AND SM ACCORDING TO ASTM D 2487, OR A COMBINATION OF THESE GROUPS AND SHALL BE FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES (75 MM) IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER.
  - PERVIOUS BACKFILL MATERIAL FOR USE IN FILL AREAS ASSOCIATED WITH BASIN EMBANKMENTS SHALL BE COMPOSED OF SATISFACTORY ON-SITE MATERIAL OR BORROW SOIL MATERIALS WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE FROM EXCAVATIONS. SATISFACTORY ON-SITE MATERIAL SHALL HAVE SOIL CLASSIFICATION GROUPS OF GW, GP, GM, SW, SP, AND SM ACCORDING TO ASTM D 2487, OR A COMBINATION OF THESE GROUPS AND SHALL BE FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES (75 MM) IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER.
  - PIPE INSTALLED THROUGH EMBANKMENT SHALL INCLUDE WATER-TIGHT JOINTS AND FILTER DIAPHRAGM. FILTER DIAPHRAGM SHALL CONSIST OF C-33 SAND, 2 FEET THICK, ENCOMPASSING PIPE (3 TIMES PIPE DIAMETER ON TOP AND SIDES, 1.5 TIMES PIPE DIAMETER ON BOTTOM).

MIN. PERCENT PASSING (BY WT.)	SEIVE SIZE
100	3.5"
80-100	3/4"
40-90	No. 4
30-85	No. 40
25-75	No. 200

**EMBANKMENT**



**LEVEL SPREADER**  
SCALE: NOT TO SCALE



**DETENTION BASIN**  
SCALE: NOT TO SCALE

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CONSTRUCTION DETAILS  
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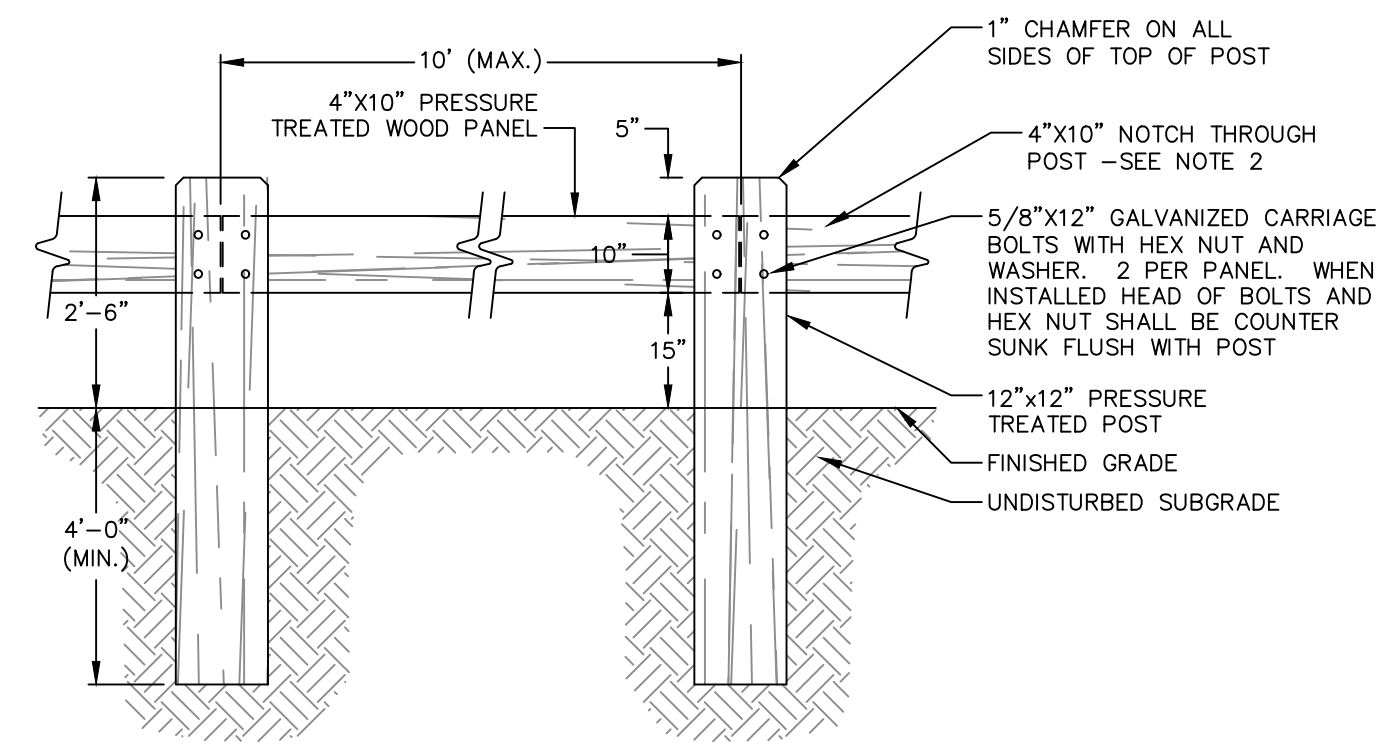
PROJ. No.: 20190629.C10  
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**CD-505**

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LAYER STATE: PC3: AUTOCAD PDF (GENERAL DOCUMENTATION)PC3: STB/CTB: FO STB

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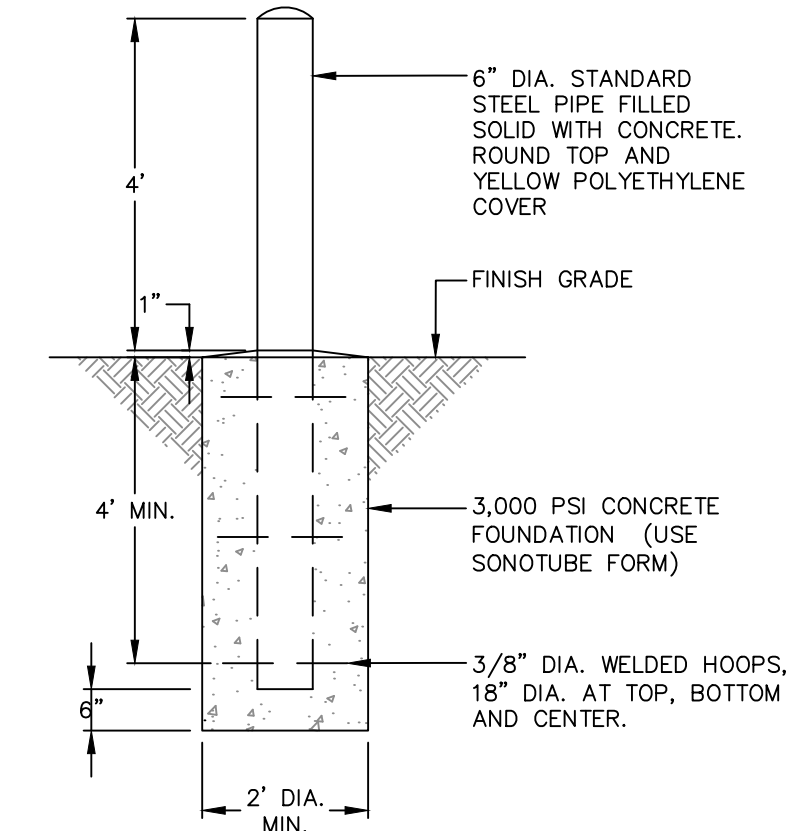
DATE:



- NOTE:
- LUMBER SHALL BE ROUGH SAWN (NON-PLANED) PRESSURE TREATED SOUTHERN YELLOW PINE OR DOUGLAS FIR.
  - POSTS SHALL HAVE 4"x10" NOTCH THROUGH SIDE OF POST TO RECEIVE GUIDERAIL PANELS. TOP OF OPENING SHALL BE 5" FROM TOP OF POST.

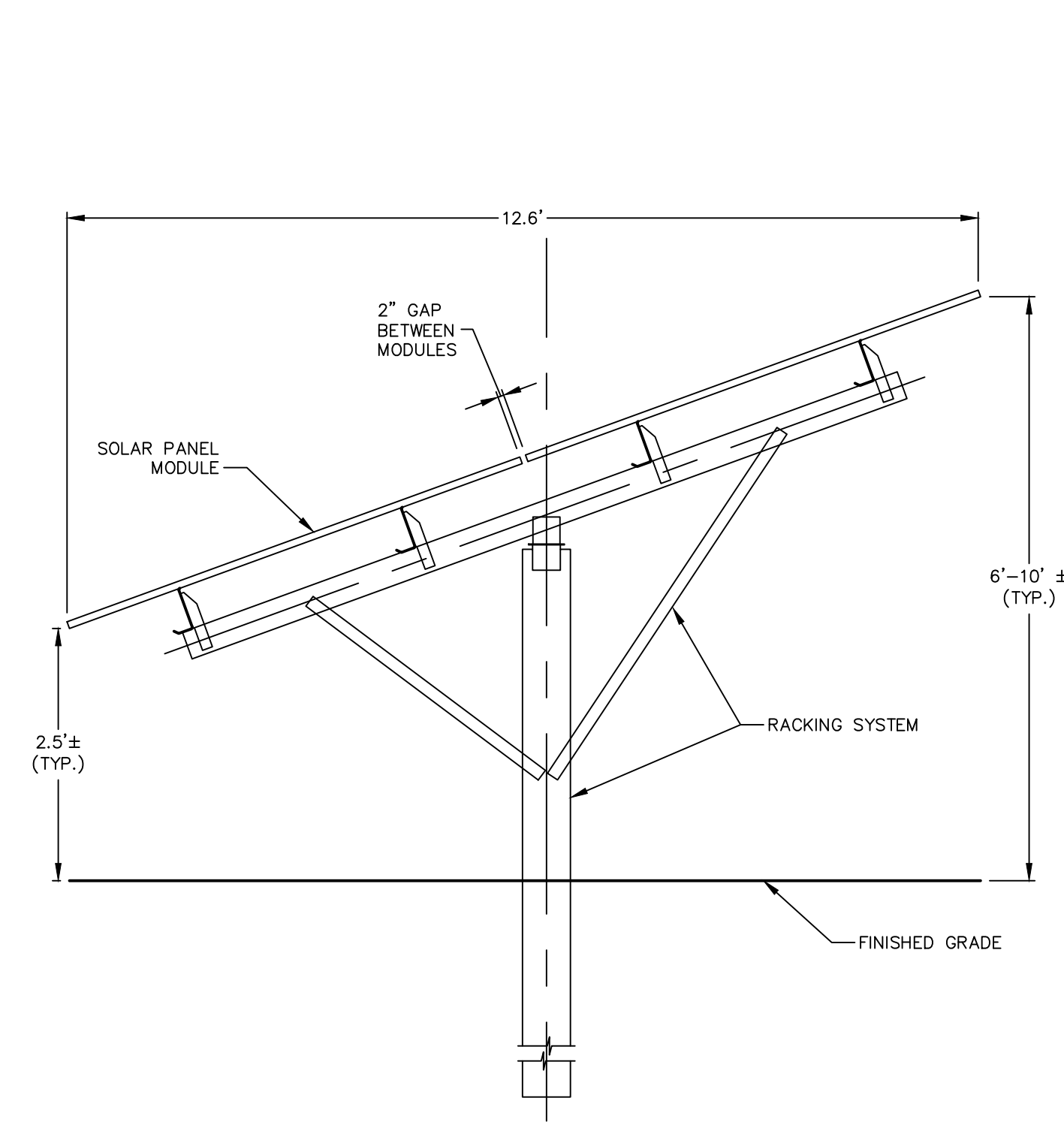
**TIMBER GUIDE RAIL**

SCALE: NOT TO SCALE



**BOLLARD**

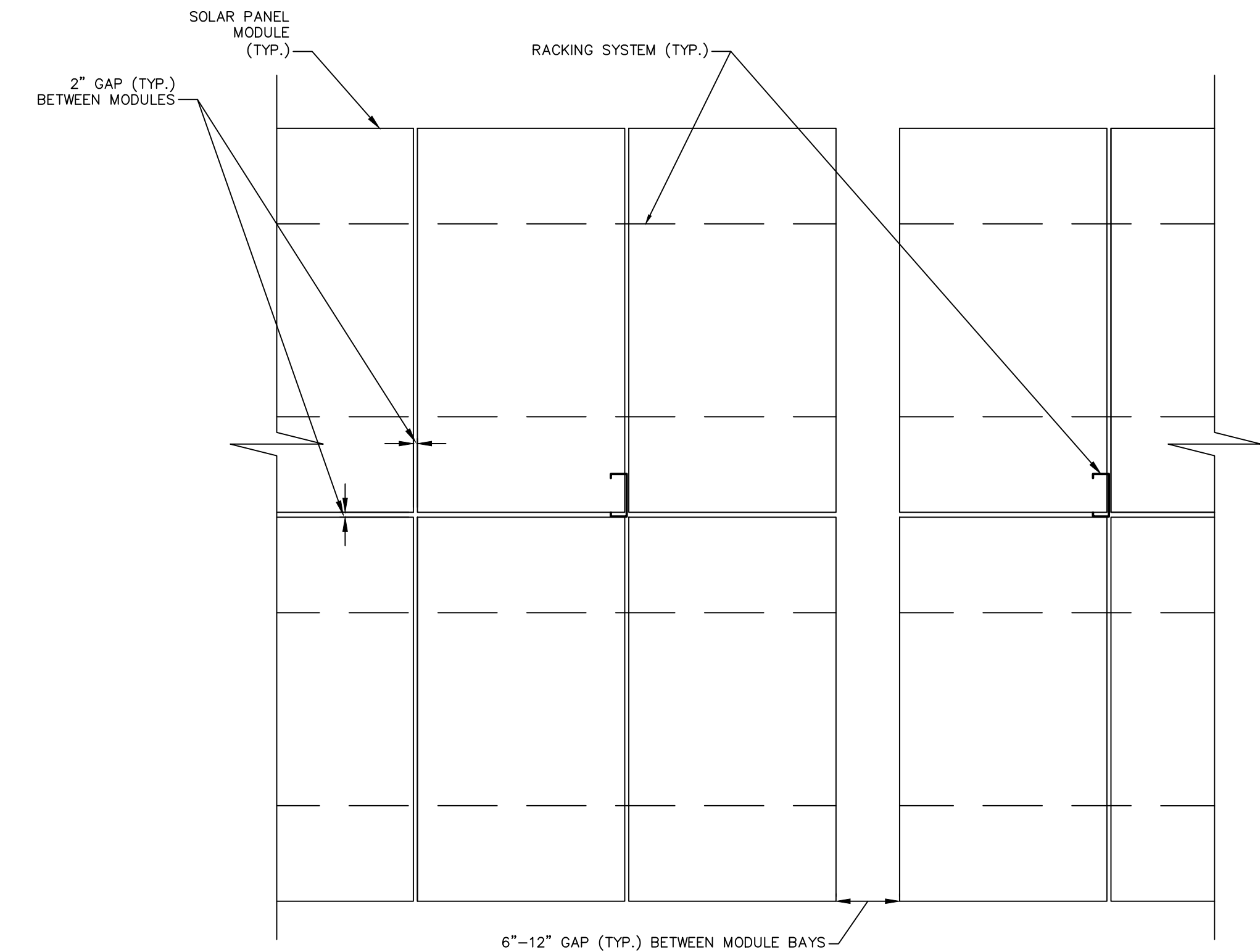
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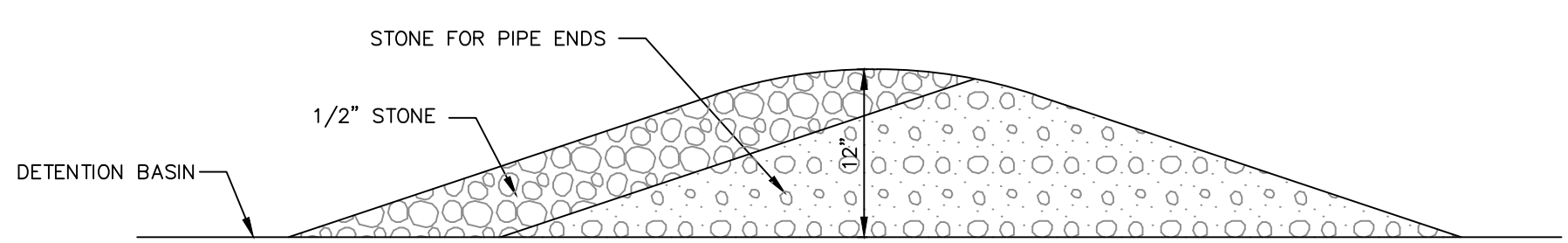
- NOTE:
- INFORMATION SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL DESIGN OF RACKING SYSTEM TO BE DONE BY ELECTRICAL AND STRUCTURAL ENGINEER PRIOR TO BUILDING PERMIT.

**SOLAR PANEL RACKING AND LAYOUT**

SCALE: NOT TO SCALE



TYPICAL MODULE SPACING



**STONE BERM**

SCALE: NOT TO SCALE

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
5.	2/7/2022	REVISED PER TOWN COMMENTS	JHD	KCM
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GRAPHIC SCALE

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WRENTHAM MASSACHUSETTS

80 WASHINGTON STREET

CONSTRUCTION DETAILS

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PROJ. No.: 20190629.C10  
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CD-506