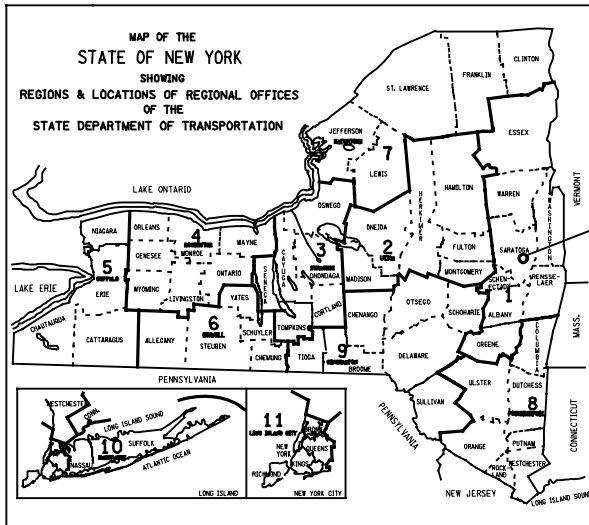


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 PROJECT MANAGER
 DESIGN SUPERVISOR
 DESIGNED BY
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SITE OF WORK



TOWN OF CLIFTON PARK

FOREST DRIVE CULVERT REPLACEMENT

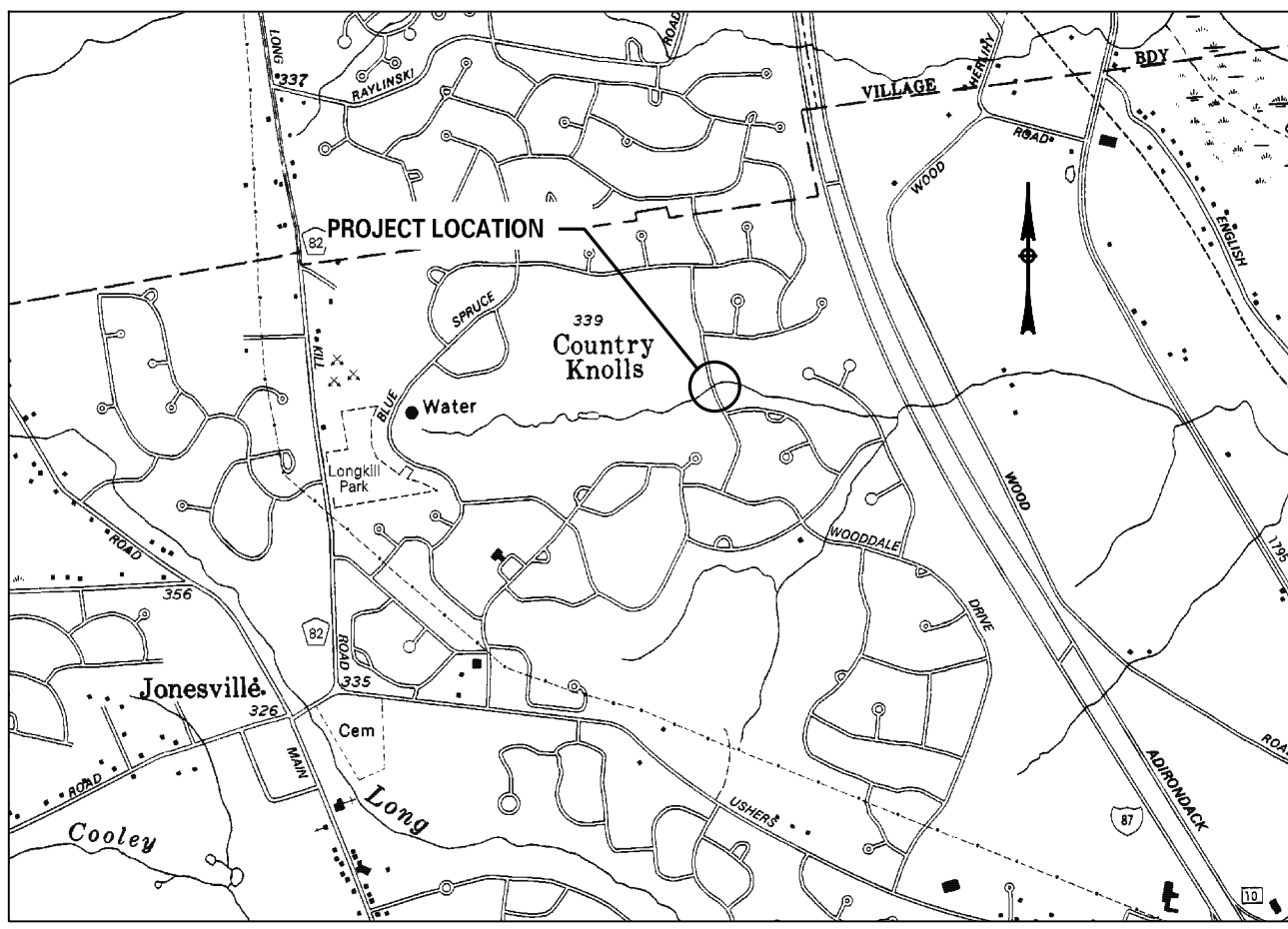
SARATOGA COUNTY

AUGUST 2023

THE PROJECT SITE IS LOCATED WITHIN THE TOWN OF CLIFTON PARK, SARATOGA COUNTY, NEW YORK.

LOCATION:
 FOREST DRIVE CULVERT IS APPROXIMATELY 1,350 FT SOUTH OF THE INTERSECTION OF SHADOW WOOD WAY AND FOREST DRIVE.

DWG. NO.	SHEET TITLE	SHEET NO.
-	COVER SHEET	1
GN-1	GENERAL NOTES	2
ESCD-1	EROSION AND SEDIMENT CONTROL DETAILS	3
PL-1	CULVERT PLAN	4
PR-1	PROFILE	5
ST-1	CULVERT LONGITUDINAL SECTION	6
ST-2	CULVERT PIPE DETAILS	7



PROJECT LOCATION
N.T.S.

LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT "PROPOSAL".

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

RECOMMENDED BY:

PHIL BARRETT _____ DATE _____
 TOWN OF CLIFTON PARK - TOWN SUPERVISOR

PREPARED AND RECOMMENDED BY



JEREMY M. BOURDEAU, P.E. 8/4/23
 NEW YORK STATE PROFESSIONAL ENGINEERS LICENSE NO. 083422

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IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ ESTIMATED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

DEFINITIONS:

1. THE WORDS "SHALL", "SHOULD", AND "MAY", AS USED IN THE CONTRACT DOCUMENTS, HAVE THE FOLLOWING MEANINGS:
- SHALL - A MANDATORY CONDITION. IN THE DESIGN, APPLICATION, OR LOCATION OF DEVICES REQUIREMENTS HAVING "SHALL" STIPULATIONS ARE MANDATORY. NO DISCRETION IN FOLLOWING THEM IS ALLOWED.
- SHOULD - AN ADVISORY CONDITION. WHERE "SHOULD" IS USED IN RELATION TO A PROVISION, THAT PROVISION IS RECOMMENDED, AND NORMALLY IS TO BE FOLLOWED, BUT IS NOT MANDATORY. DEVIATION FROM SUCH PROVISIONS IS PERMISSIBLE IF, AND TO THE EXTENT, THERE IS JUSTIFIABLE CAUSE TO DO SO.
- MAY - A PERMISSIVE CONDITION. NO REQUIREMENT FOR DESIGN OR APPLICATION IS INTENDED.

PIPE INSTALLATION NOTES:

1. THE CONTRACTOR HAS TWO OPTIONS FOR INSTALLATION OF THE NEW CULVERT:
- TRENCHLESS INSTALLATION
 - OPEN CUT INSTALLATION
2. DEWATERING FOR THE CHOSEN INSTALLATION METHOD SHALL BE INCLUDED IN THE LUMP SUM COST OF PROJECT.

TRENCHLESS INSTALLATION NOTES:

1. SHOULD THE CONTRACTOR CHOOSE TRENCHLESS INSTALLATION, THE FOLLOWING NOTES APPLY:
- THE ROAD SHALL REMAIN OPEN TO TRAFFIC WITH ONLY SINGLE LANE CLOSURES AS NEEDED. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING ALL WORK ZONE TRAFFIC CONTROL MEASURES FOR THIS OPTION.
 - THE SPECIFIC METHOD FOR INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 650 OF THE NYS DOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL DETERMINE THE SPECIFIC METHOD FOR INSTALLATION AND SHALL SUBMIT TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
 - THE COSTS ASSOCIATED WITH ALL ITEMS REQUIRED TO COMPLETE THE TRENCHLESS INSTALLATION SHALL BE INCLUDED IN THE LUMP SUM BID PRICE

OPEN CUT INSTALLATION NOTES:

1. SHOULD THE CONTRACTOR CHOOSE OPEN CUT INSTALLATION, THE FOLLOWING NOTES APPLY:
- THE ROAD WILL BE CLOSED TO TRAFFIC. THE TOWN WILL COORDINATE ALL WORK ZONE TRAFFIC CONTROL NEEDS (BARRICADES, DETOUR SIGNS, DETOUR COORDINATION, ETC.)
 - THE CONTRACTOR SHALL COMPLY WITH ALL NYS DOT STANDARD SPECIFICATIONS AND STANDARD SHEET DETAILS RELATING TO EXCAVATIONS, INSTALLATIONS, BACKFILL, AND SITE RESTORATION.
 - THE CONTRACTOR SHALL PROVIDE A SKETCH OF THEIR PROPOSED INSTALLATION METHODS FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SUPPORT OF THE UNDERGROUND UTILITIES
 - THE COSTS ASSOCIATED WITH ALL ITEMS REQUIRED TO COMPLETE THE OPEN CUT INSTALLATION SHALL BE INCLUDED IN THE LUMP SUM BID PRICE.

WORK ZONE TRAFFIC CONTROL NOTES (TRENCHLESS INSTALLATION):

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK ZONE TRAFFIC CONTROL (WZTC) ITEM (SIGNS, CONES, BARRELS, ETC.) TO MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH ITEM 619.01 OF THE NYS DOT STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH THE FOLLOWING:
- A) ONLY DAILY SINGLE LANE CLOSURES WILL BE ALLOWED.
 - B) ANY LANE CLOSURE OPERATIONS SHALL BE COORDINATED WITH THE TOWN. THE TOWN SHOULD BE RESPONSIBLE FOR COORDINATING THE SAME WITH NECESSARY ENTITIES AND EMERGENCY SERVICES.

COFFERDAM NOTES:

SHOULD THE CONTRACTOR ELECT TO LAY BACK A PORTION OF THE EXISTING EARTH ADJACENT TO AN EXCAVATION REQUIRING A COFFERDAM, ANY REQUIRED EXTENSIONS OF THE COFFERDAM NECESSARY TO KEEP WATER FROM ENTERING THE EXCAVATION SHALL BE FURNISHED AND PLACED AT NO COST TO THE OWNER.

WHERE A COFFERDAM IS USED, THE COST OF DEWATERING THE ENTIRE EXCAVATION, REGARDLESS OF SOURCE OF WATER, SHALL BE INCLUDED IN THE COFFERDAM ITEM.

SHOULD FIELD CONDITIONS REQUIRE A CHANGE IN THE TYPE OF COFFERDAM SYSTEM CALLED FOR ON THE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR COORDINATION WITH THE APPROPRIATE AGENCIES TO APPROVE THE CHANGE.

IF MULTIPLE COFFERDAMS ARE REPLACED BY A SINGLE SYSTEM, AS PERMITTED BY THE ENGINEER, PAYMENT SHALL BE BASED ON ALL OF THE APPLICABLE COFFERDAM ITEMS INDICATED ON THE PLANS.

DEWATERING OF THE COFFERDAM SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE OF THE STREAM BED AS APPROVED BY THE ENGINEER. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS STRAW BALES, OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE ENGINEER. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.

ANY WATER, EITHER DIVERTED OR PUMPED FROM THE STRUCTURE EXCAVATION, THAT IS TO BE RETURNED TO THE WATERWAY SHALL NOT BE MORE TURBID THAN THE WATER UPSTREAM OF THE PROJECT.

WATER THAT IS MORE TURBID SHALL BE TREATED BY MEANS OF A SETTLEMENT TRAP OF ADEQUATE SIZE TO RETURN WATER QUALITY TO ACCEPTABLE LEVELS, COST TO BE INCLUDED IN THE COFFERDAM ITEMS.

REMOVAL - THE CONTRACTOR SHALL REMOVE THE COFFERDAMS AND WATER DIVERSION STRUCTURES, AFTER SUCH TIME THAT IT IS DETERMINED BY THE ENGINEER THAT IT IS NOT NECESSARY. THE REMOVAL SHALL BE SEQUENCED TO MINIMIZE TURBIDITY AND THE DISCHARGE OF MATERIALS INTO THE WATERWAY.

ORDINARY HIGH WATER ELEVATION IS ESTIMATED TO BE 232.00 ON DOWNSTREAM END AND 236.70 ON UPSTREAM END. THIS IS DEFINED AS THE WATER SURFACE ELEVATION FOR THE MEAN ANNUAL FLOOD WHICH IS THE FLOOD THAT HAS A RECURRENCE INTERVAL OF 2.33 YEARS.

ORDINARY WATER ELEVATION IS ESTIMATED TO BE 231.50. THIS IS DEFINED AS THE HIGHEST SURFACE WATER ELEVATION LIKELY TO BE ENCOUNTERED DURING ONE CONSTRUCTION SEASON (OTHER THAN MAJOR FLOODS). IT IS ALWAYS LESS THAN THE ORDINARY HIGH WATER ELEVATION AND IT IS USUALLY AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

LOW WATER ELEVATION IS ESTIMATED TO BE 231.25. THIS WATER ELEVATION IS THE NORMAL LOW WATER ELEVATION PREVALENT DURING ONE CONSTRUCTION SEASON FOR MORE THAN 25% OF THE TIME. IT IS AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

STREAM PROTECTION NOTE:

DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER, WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS, WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM A STREAM, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM.

STREAM RESTRICTION NOTE:

NO IN-STREAM WORK SHALL OCCUR BETWEEN OCT. 1 AND MAY 31, UNLESS APPROVED BY NYSDEC. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE ENVIRONMENTAL PERMITS OBTAINED BY THE TOWN AND INCLUDED IN THE CONTRACT PROPOSAL. THE OBTAINED PERMITS ASSUME TRENCHLESS INSTALLATION. SHOULD THE CONTRACTOR PROPOSE OPEN CUT INSTALLATION, THE CONTRACTOR SHALL PROVIDE A SKETCH OF THEIR PROPOSED IMPACTS SO THE ENGINEER CAN COORDINATE ANY POTENTIAL NEEDS FOR REVISED PERMITS WITH NYSDEC AND U.S. ARMY CORPS.


RESTORING DISTURBED AREAS:

1. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION APPROVED BY THE ENGINEER.
2. THE RESTORATION OF DISTURBED AREAS SHALL BE ACCOMPLISHED AS SPECIFIED UNDER SECTIONS 107-08 AND 107-09 OF THE STANDARD SPECIFICATIONS AND APPLICABLE ADDENDUMS.

WETLAND NOTES:

1. THE CONTRACTOR SHALL TEMPORARILY IMPACT NO MORE THAN 2,200 SQUARE FEET (0.051 ACRES) OF FEDERALLY REGULATED WETLANDS. THERE SHALL BE NO PERMANENT WETLAND IMPACTS.
2. THE CONTRACTOR SHALL RESTORE ALL IMPACTED WETLANDS TO PRE-CONSTRUCTION GRADE AND RE-SEED WITH A NATIVE WETLAND SEED MIX (ERNST FACW WETLAND MEADOW MIX OR APPROVED EQUAL).

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON : AUGUST 4, 2023



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Barton & Loguidice

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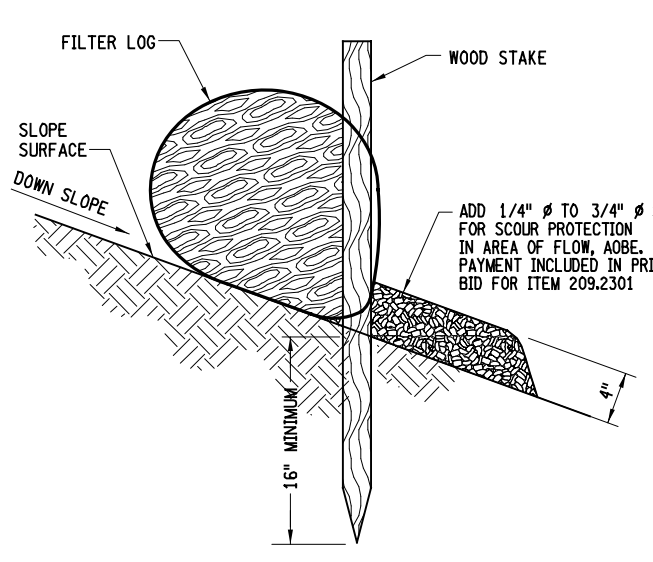
FOREST DRIVE CULVERT REPLACEMENT
TOWN OF CLIFTON PARK
SARATOGA COUNTY
NEW YORK STATE

GENERAL NOTES
SCALE: AS SHOWN
DATE ISSUED: 8/2023
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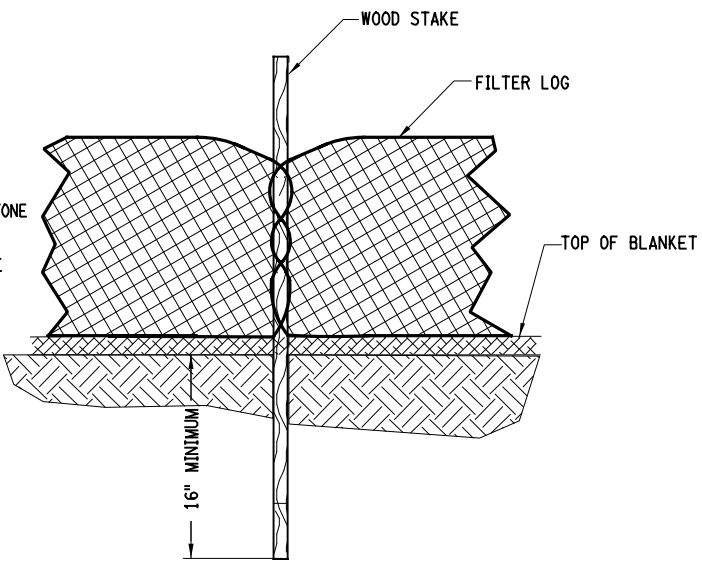
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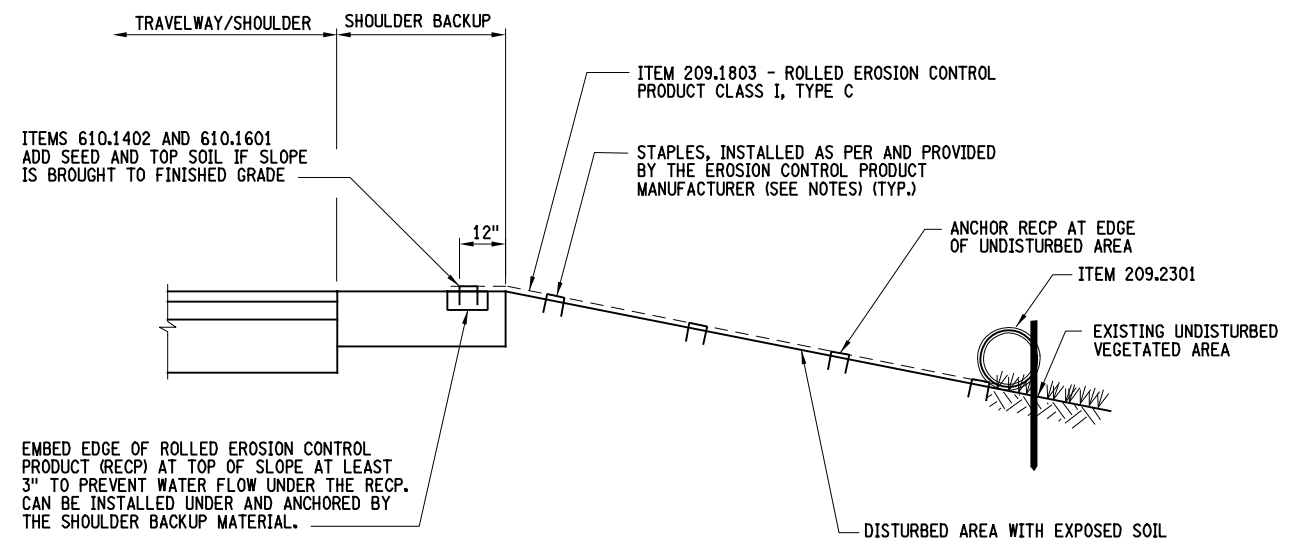
FILTER LOG STAKE DETAIL (ON BARE SOIL)

ITEM 209.2301
N.T.S.



FILTER LOG STAKE DETAIL (FRONT VIEW)

ITEM 209.2301
N.T.S.



**EROSION AND SEDIMENT CONTROL FOR ALL DISTURBED AREAS
TEMPORARY OR PERMANENT**

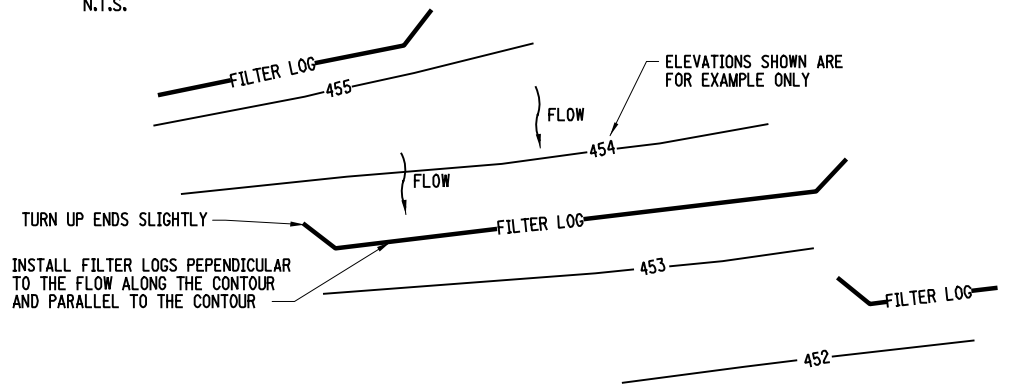
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FILTER LOG CHECK DAM APPLICATION NOTES:

- A. THE PRIMARY PURPOSE OF A CHECK DAM IS TO REDUCE EROSION IN A CHANNEL BY REDUCING FLOW VELOCITY IN THE CHANNEL.
- B. CHECK DAMS WILL CAPTURE SEDIMENT THAT FALLS OUT OF SUSPENSION BEHIND THE CHECK DAM DUE TO DECREASED VELOCITY.
- C. CHECK DAMS ARE NOT INTENDED TO, AND WILL NOT FILTER SEDIMENT FROM TURBID WATER.
- D. FILTER LOG CHECK DAMS ARE NOT TO BE USED ON SLOPES GREATER THAN 10% GRADE.

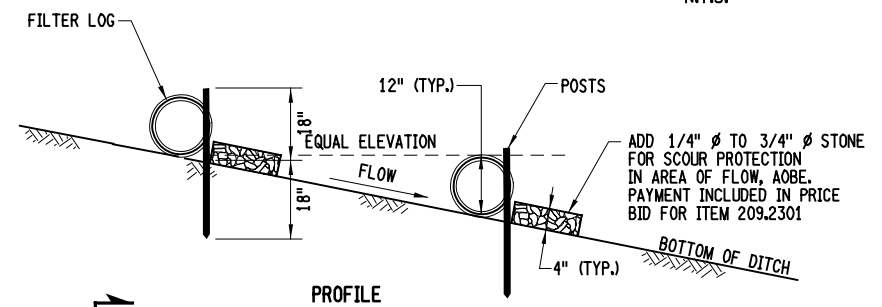
NOTES:

- 1. DRAINAGE AREAS: MAXIMUM DRAINAGE AREA TRIBUTARY TO CHECK DAM SHALL BE 1 ACRE. MAXIMUM DRAINAGE AREA TRIBUTARY TO PREFABRICATED CHECK DAM SHALL BE 1/2 ACRE.
- 2. POSTS MAY BE 1 1/4" x 1 1/4" (MIN.) HARDWOOD, 1 1/2" x 3/2" (MIN.) SOFTWOOD. ADDITIONAL POSTS ARE REQUIRED AT THE OUTER EDGES OF DITCH WIDTH.
- 3. THE FILTER LOG SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE LOG.
- 4. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT OF THE RECP. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.

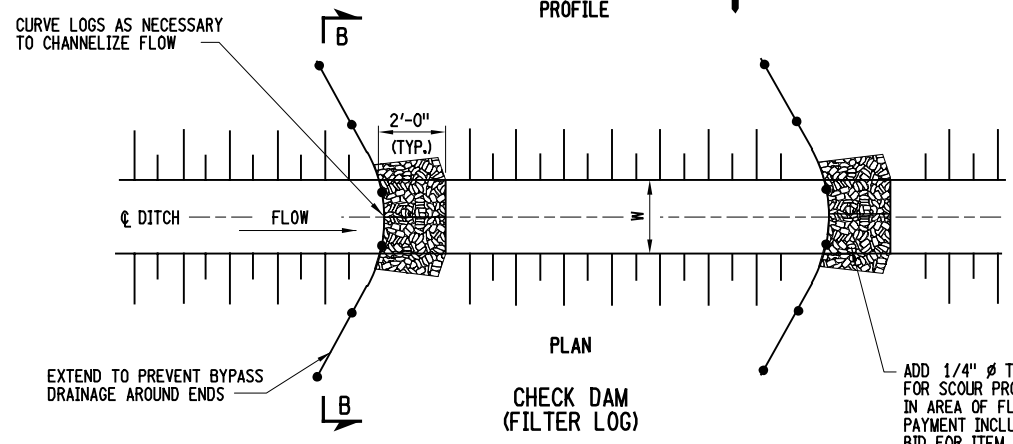


FILTER LOG PLAN EXAMPLE

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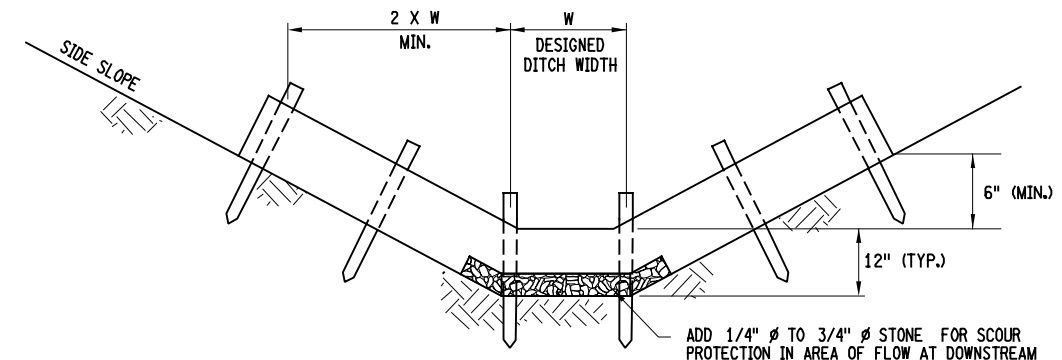


PROFILE



CHECK DAM (FILTER LOG)

SYMBOL



SECTION B-B

ADD 1/4" Ø TO 3/4" Ø STONE FOR SCOUR PROTECTION IN AREA OF FLOW AT DOWNSTREAM SIDE OF FLOW, AOB. PAYMENT INCLUDED IN PRICE BID FOR ITEM 209.2301

NOTES:

- 1. ITEMS IN THIS DETAIL MAY APPEAR EXAGGERATED TO SHOW DETAIL.
- 2. IF SLOPE IS BROUGHT TO FINISHED GRADE, PERMANENT TOP SOIL AND SEEDING SHALL BE INSTALLED PRIOR TO INSTALLING ITEM 209.1803 - ROLLED EROSION CONTROL PRODUCT (RECP). IF SLOPES ARE NOT BROUGHT TO FINISH GRADE THEY ARE TO BE TRACKED IN WITH A DOZER AND TREATED WITH ITEM 209.1003, TEMPORARY SEED & MULCH.
- 3. ROLLED EROSION CONTROL PRODUCT (RECP) MUST BE SELECTED FROM THE NYSDOT APPROVED MATERIALS LIST FOR CLASS I TYPE C RECP AND HAVE A LONGEVITY OF AT LEAST TWELVE (12) MONTHS. PAYMENT WILL NOT BE MADE FOR MATERIALS THAT ARE NOT ON THE APPROVED LIST, IMPROPERLY INSTALLED, NOT MAINTAINED, DAMAGED BY THE CONTRACTOR AND/OR SUB-CONTRACTORS.
- 4. RECP MUST BE FLUSH AND IN CONTACT WITH THE SOIL AND NOT RAISED BY CLUMPS, WEEDS, STICKS, ETC. AND MUST BE STAPLED SECURELY.
- 5. ALL RECP DAMAGED BY CONTRACTOR AND/OR SUBCONTRACTORS SHALL BE REPAIRED WITHIN THREE CALENDAR DAYS OF THE DAMAGE OCCURRENCE AT NO ADDITIONAL COST TO THE OWNER.
- 6. FILTER LOGS ARE TO REMAIN IN PLACE AS PART OF FINAL STABILIZATION. VERIFICATION OF PROPER LOCATION WILL BE CONDUCTED BY THE OWNER OR THEIR REPRESENTATIVE.

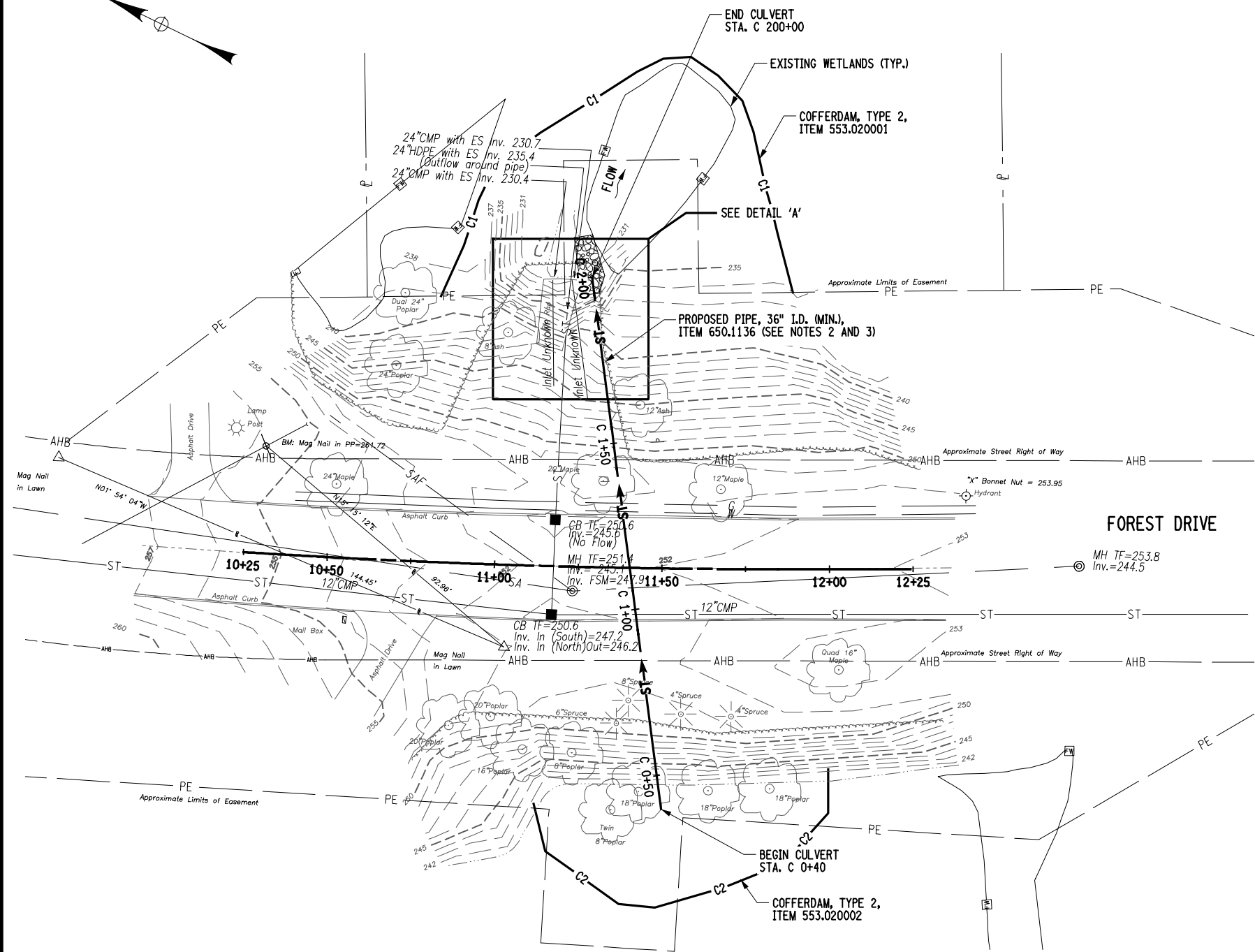
PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON : AUGUST 4, 2023



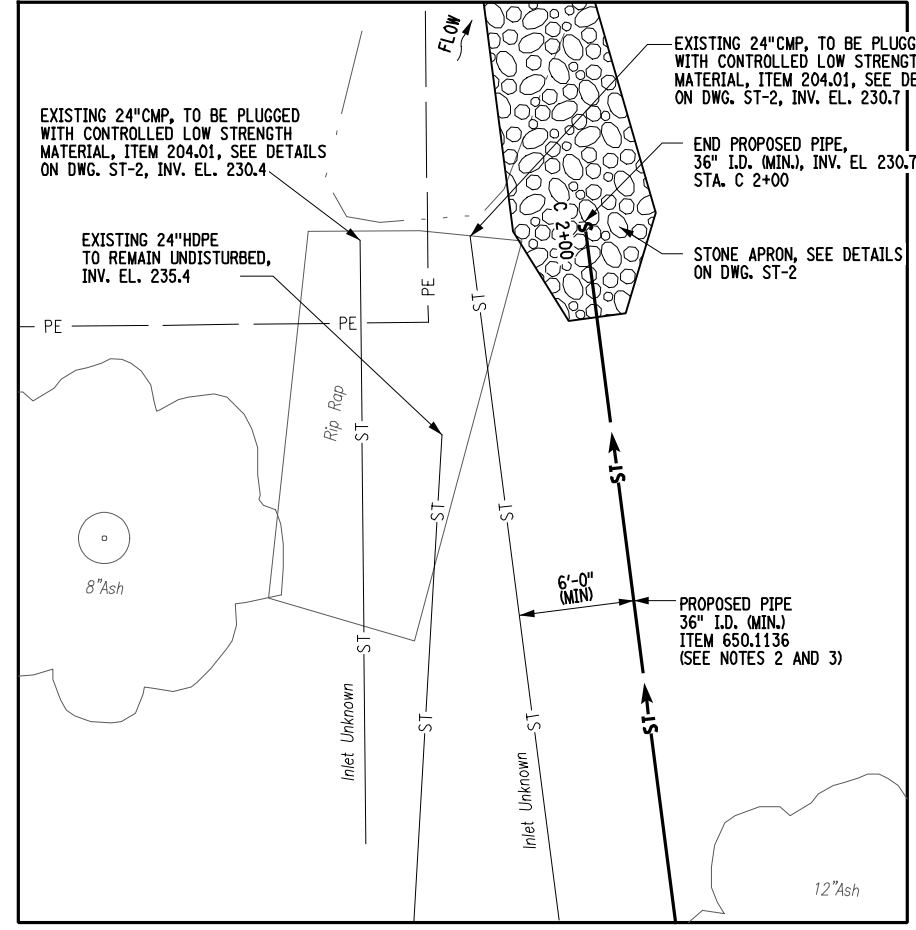
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EROSION AND SEDIMENT CONTROL DETAILS				
SCALE: AS SHOWN				
DATE ISSUED: 8/2023				
DRAWING ESCD-1				

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PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON : AUGUST 4, 2023



PLAN VIEW
 SCALE: 1"=40'-0"



DETAIL 'A'
 SCALE: 1"=10'-0"

NOTES:

1. SEE DWG. GN-1 FOR NOTES.
2. PROPOSED PIPE ASSUMED TO BE 160 FEET LONG, 36 INCH INTERIOR DIAMETER, HDPE OR APPROVED EQUAL.
3. THE CONTRACTOR CAN PROPOSE TRENCHLESS INSTALLATION OR OPEN CUT INSTALLATION. SEE PIPE INSTALLATION NOTE ON DWG. GN-1.

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FOREST DRIVE CULVERT REPLACEMENT
TOWN OF CLIFTON PARK
SARATOGA COUNTY
NEW YORK STATE

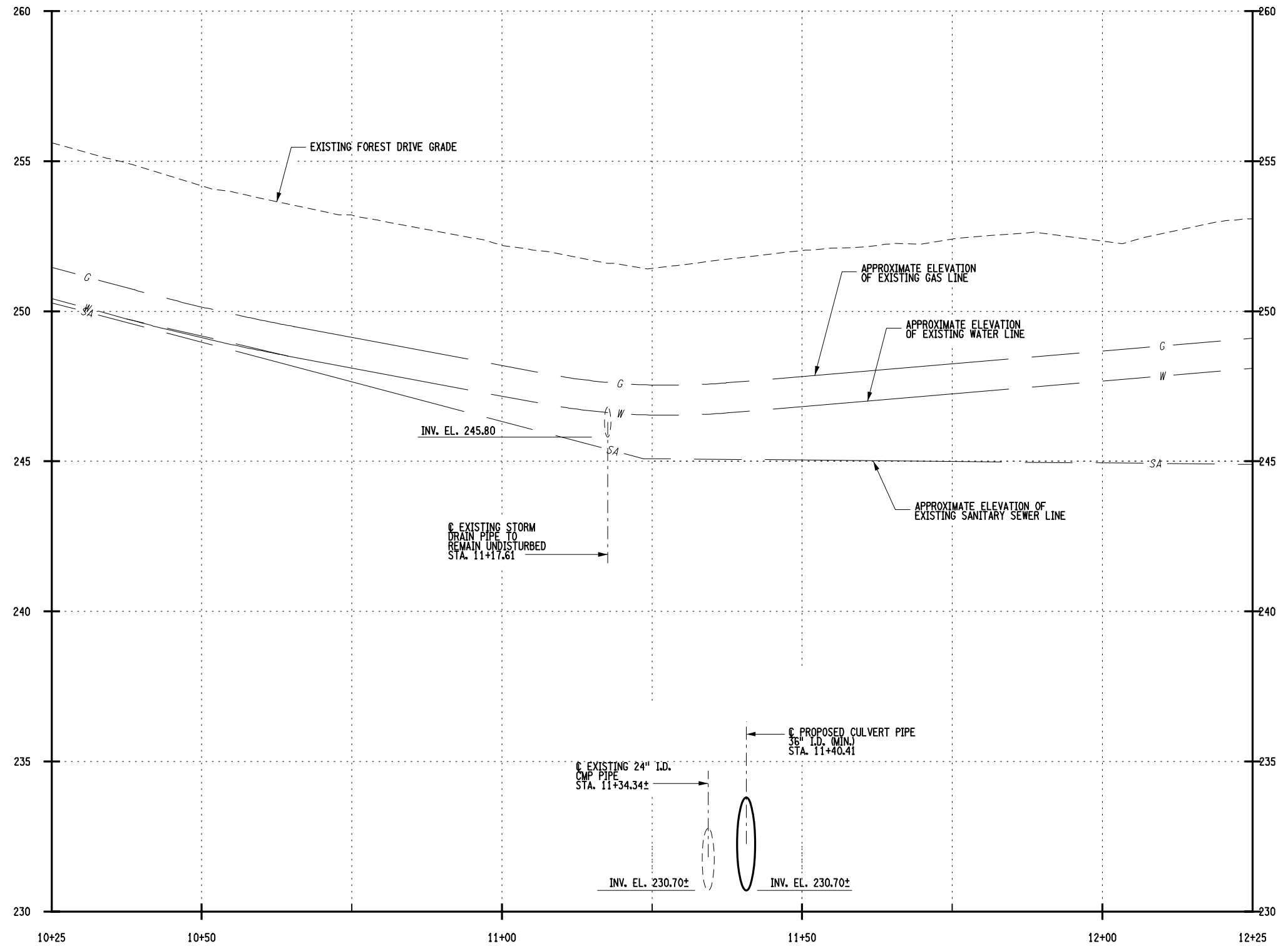
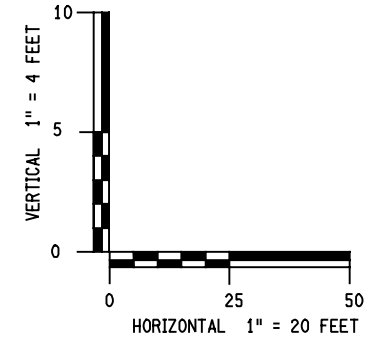
CULVERT PLAN
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PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON : AUGUST 4, 2023



FOREST DRIVE - PROFILE

NOTES:

1. SHOULD THE CONTRACTOR CHOOSE OPEN CUT INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SUPPORT NEEDS OF THE UNDERGROUND UTILITIES AND ALL WORK ASSOCIATED WITH RESTORING THE SITE TO PREVIOUS CONDITIONS AT THE START OF THE PROJECT. THE TOWN WILL BE RESPONSIBLE FOR WORK ZONE TRAFFIC CONTROL NEEDS (BARRICADES, DETOUR SIGNS, DETOUR COORDINATION, ETC.).

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FOREST DRIVE CULVERT REPLACEMENT	TOWN OF CLIFTON PARK	
	SARATOGA COUNTY	
	NEW YORK STATE	
PROFILE		
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DATE ISSUED: 8/2023		
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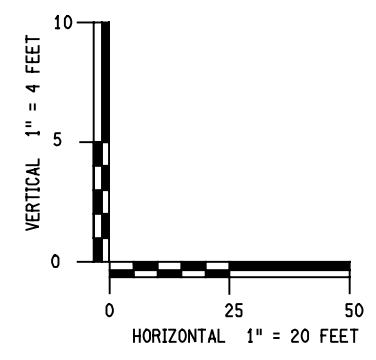
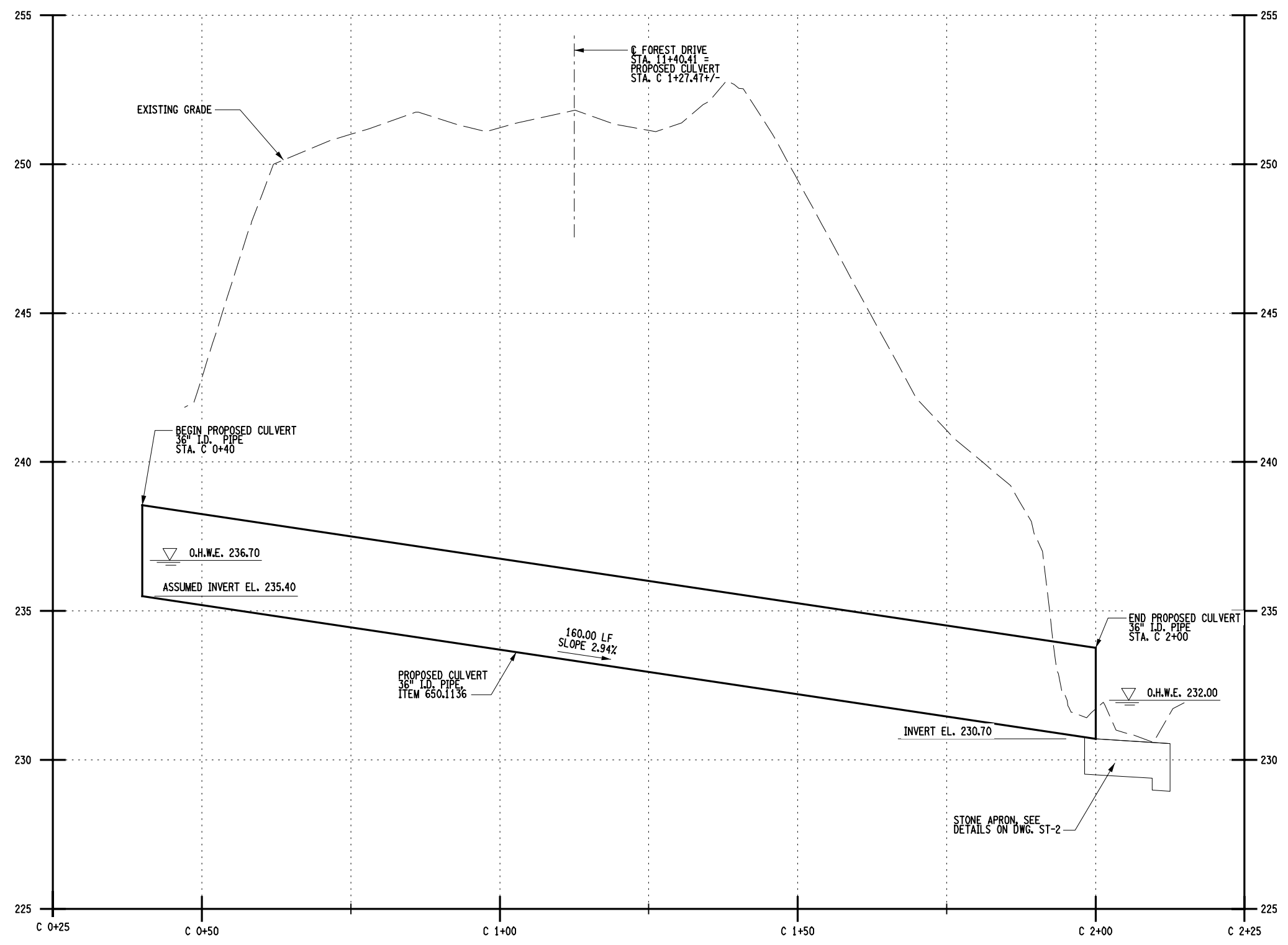
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 ON : AUGUST 4, 2023



PROPOSED CULVERT LONGITUDINAL SECTION

NOTES:
 1. SEE DWG. PR-1 FOR APPROXIMATE LOCATIONS OF BURIED UTILITIES.


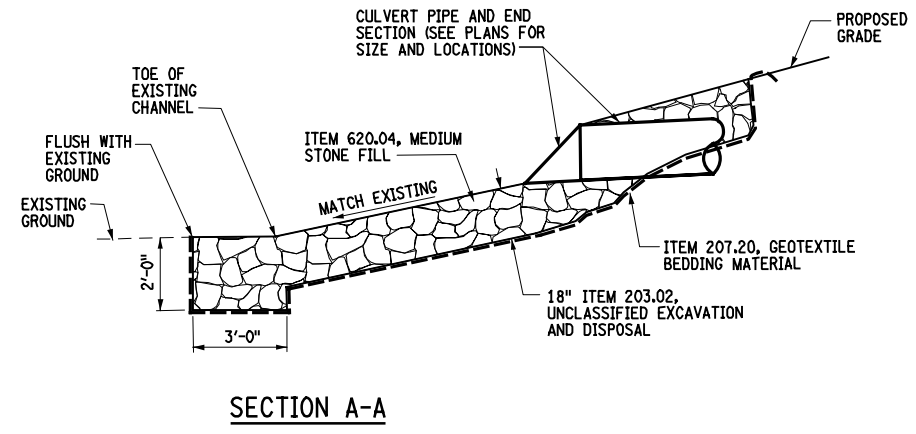
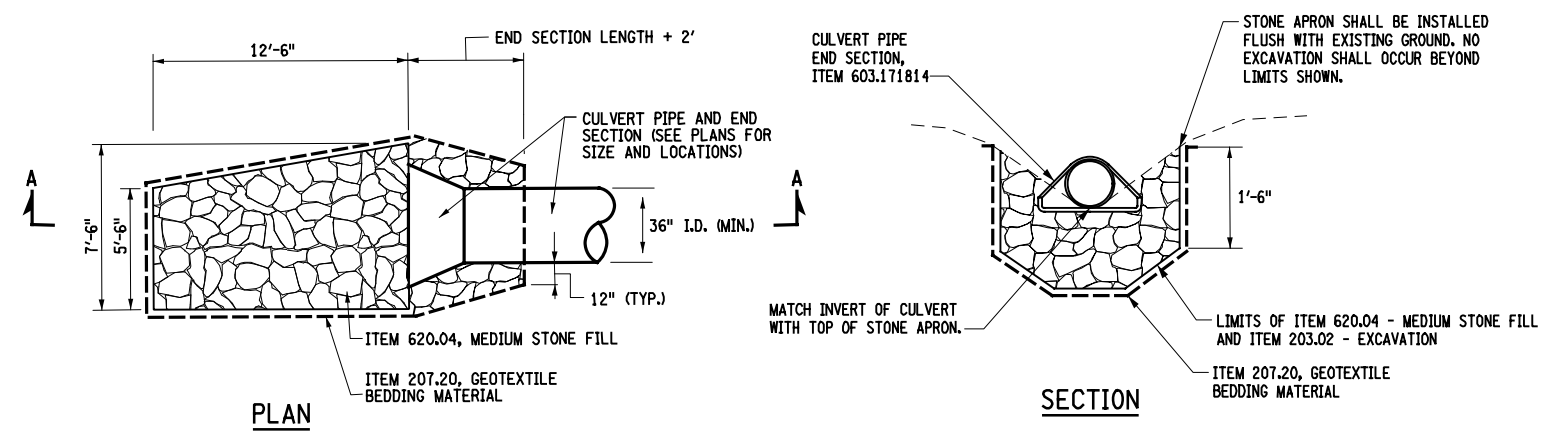
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CULVERT LONGITUDINAL SECTION			
SCALE: AS SHOWN			
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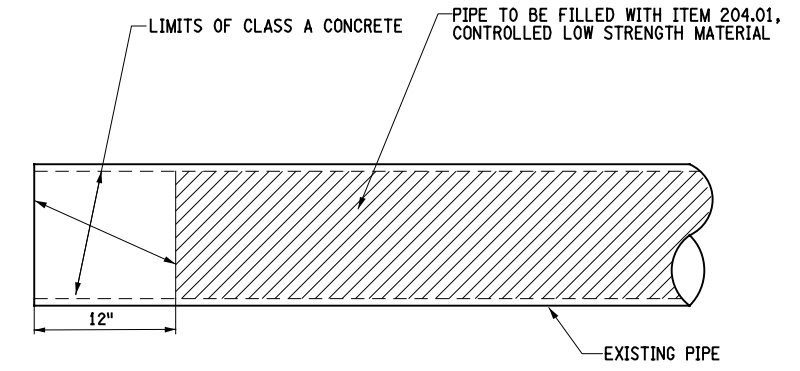
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PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON : AUGUST 4, 2023


STONE APRON DETAILS
 NTS

- STONE APRON NOTE:**
1. STONE APRON SHALL BE FILLED WITH NATIVE STREAM BED MATERIAL AND SUPPLEMENTED WITH SIMILARLY SIZED MATERIAL, IF NEEDED, TO FILL INTERSTITIAL SPACES TO MAINTAIN WATER FLOW ON THE SURFACE OF THE STREAM BED.



- PLUGGING NOTES:**
1. SEE DWG. PL-1 FOR LOCATIONS OF PIPES TO BE PLUGGED.
 2. ALL WORK NECESSARY TO PLUG END OF PIPE WITH CLASS A CONCRETE WILL BE INCLUDED UNDER ITEM 204.01.

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FOREST DRIVE CULVERT REPLACEMENT
TOWN OF CLIFTON PARK
SARATOGA COUNTY
NEW YORK STATE

CULVERT PIPE DETAILS

SCALE: NONE
 DATE ISSUED: 8/2023
 DRAWING ST-2