

February 16, 2021

Mr. Frank Bumstead  
Inland Wetlands and Watercourses Commission  
Town of North Haven  
Memorial Town Hall  
18 Church Street  
North Haven, CT 06473

**Re: Response to Loureiro Comments  
Slate Upper School  
5100 Outer Ridge Road  
North Haven, Connecticut  
SLR #16156.00003**

Dear Chairman Bumstead and Commission Members,

SLR International Corporation (SLR) is in receipt of a letter from Loureiro dated January 25, 2021, regarding the above-referenced project. We offer the following responses to its comments:

#### **Wetlands Application**

Attorney Lee is submitting a revised updated application form.

Note #17 on the title sheet states the parcel is located within the aquifer protection zone. The Regional Water Authority has reviewed the plans twice. Copies of those two letters are in the town files.

Our presentation to this commission included a detailed description of all the proposed regulated activities. Furthermore, Sheet UT includes callouts for the three areas of the regulated activities. The level spreader is noted as a regulated activity on this sheet.

The application for regulated activities has been submitted to this commission and the application materials included a wetland impact assessment and stormwater report. Both reports conclude that the project has been designed to meet standard engineering practices and that there will be no impact on the wetlands. An analysis of alternate sites and a plan with no regulated activities is not a requirement of a permit application. The plans have been revised to reduce the regulated activities by 25%.

#### **Soil Erosion**

All construction activities have been protected with erosion controls. Enclosed is a detailed phasing plan to show how the project will be developed. These plans show that at no time will the entire area be disturbed. The proposed erosion control plan has been designed to mitigate any temporary construction activities.

### **Sewage Disposal System**

We are aware of the central system design, and it has been acknowledged by us and Quinnipiack Valley Health District (QVHD). On our behalf, QVHD has applied to the Connecticut Department of Public Health (CTDPH).

As for the level spreader, in no way is it intended to function as a "de-facto" stormwater infiltration system (SWIS). While there is a minor depression to allow the stormwater to reduce erosive velocity, the pool is very small in volume. The plans have been revised to add a geofabric liner to essentially eliminate any infiltration.

QVHD has reviewed the plan and confirmed that the plan complies with the Connecticut Public Health Code. Copies of the QVHD reviews are in the town's files. The reference to the Connecticut Department of Energy & Environmental Protection (CTDEEP) guidance document for systems greater than 5,000 gallons per day is inappropriate and not a requirement for this project, which has a design flow of only 990 gallons per day.

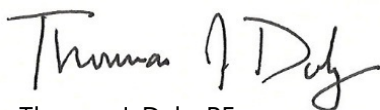
### **Stormwater System**

The underground chambers will include a liner and be solely for detention. No infiltration was used in the calculations for the chambers or aboveground basin. The underdrain has been removed from the stormwater basin. The first flush runoff from the watershed draining to the underground chambers (WS 12) has been directed to the above ground basin to meet the CTDEEP water quality requirements.

If you have any questions, please do not hesitate to contact me at (203) 271-1773.

Very truly yours,

### **SLR International Corporation**



Thomas J. Daly, PE  
Manager of Civil and Structural Engineering

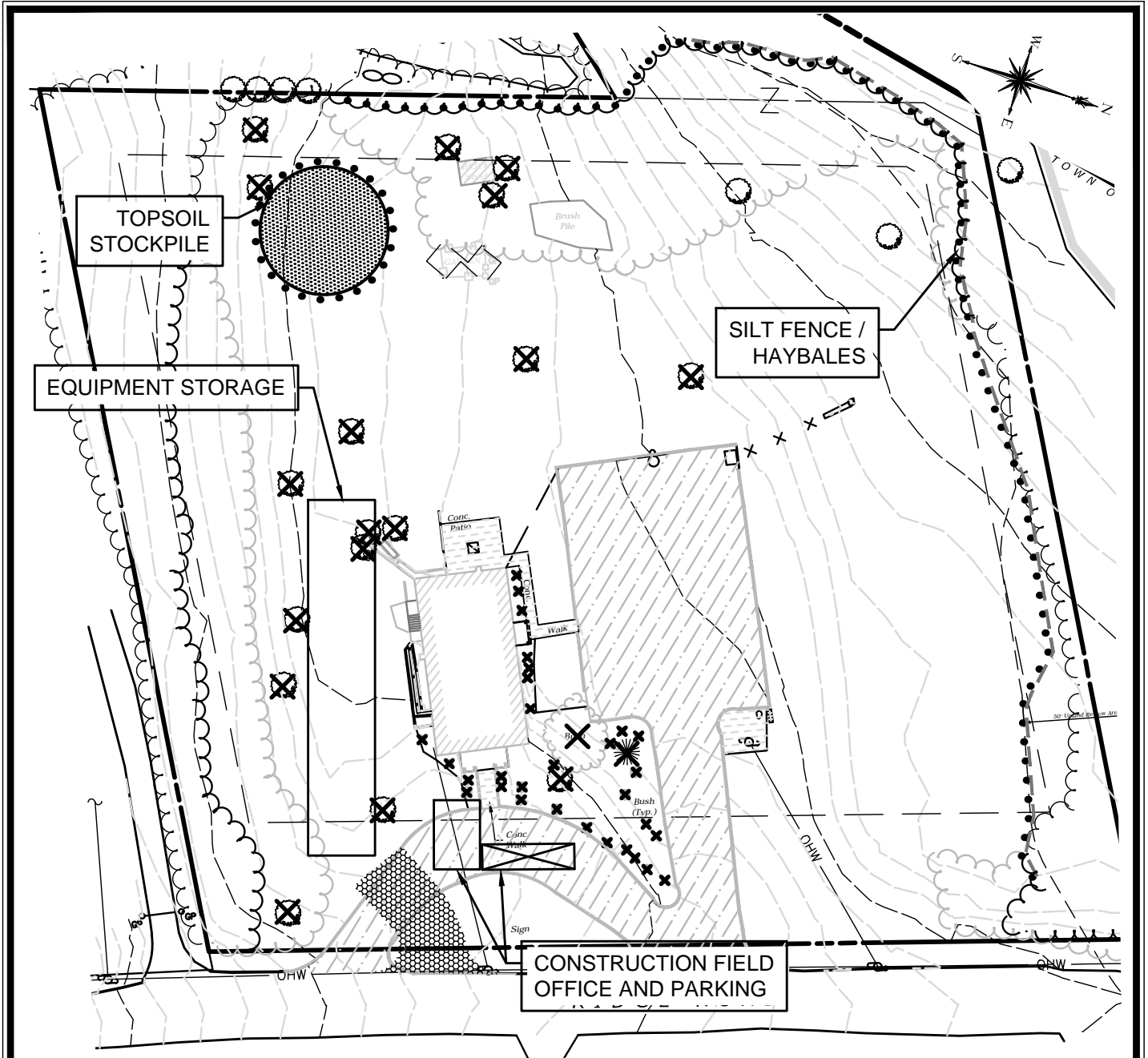
cc Ms. Jennifer Staple-Clark  
Attorney Tim Lee  
Attorney Tim Hollister

Enclosure

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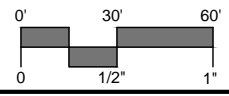
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**PHASE 1 CONSTRUCTION SEQUENCE (CLEARING & REMOVALS):**

1. CLEAR VEGETATION
2. INSTALL SILT FENCE/ HAYBALES
3. STUMP AND STRIP TOPSOIL
4. REMOVAL ASPHALT DRIVEWAY
5. INSTALL CONSTRUCTION ENTRANCE
6. REMAINING REMOVALS



99 REALTY DRIVE  
CHESHIRE, CT 06410  
203.271.1773  
SLRCONSULTING.COM

**PHASING PLANS - 1**  
**SLATE UPPER SCHOOL**  
**5100 RIDGE ROAD**  
**NORTH HAVEN, CONNECTICUT**

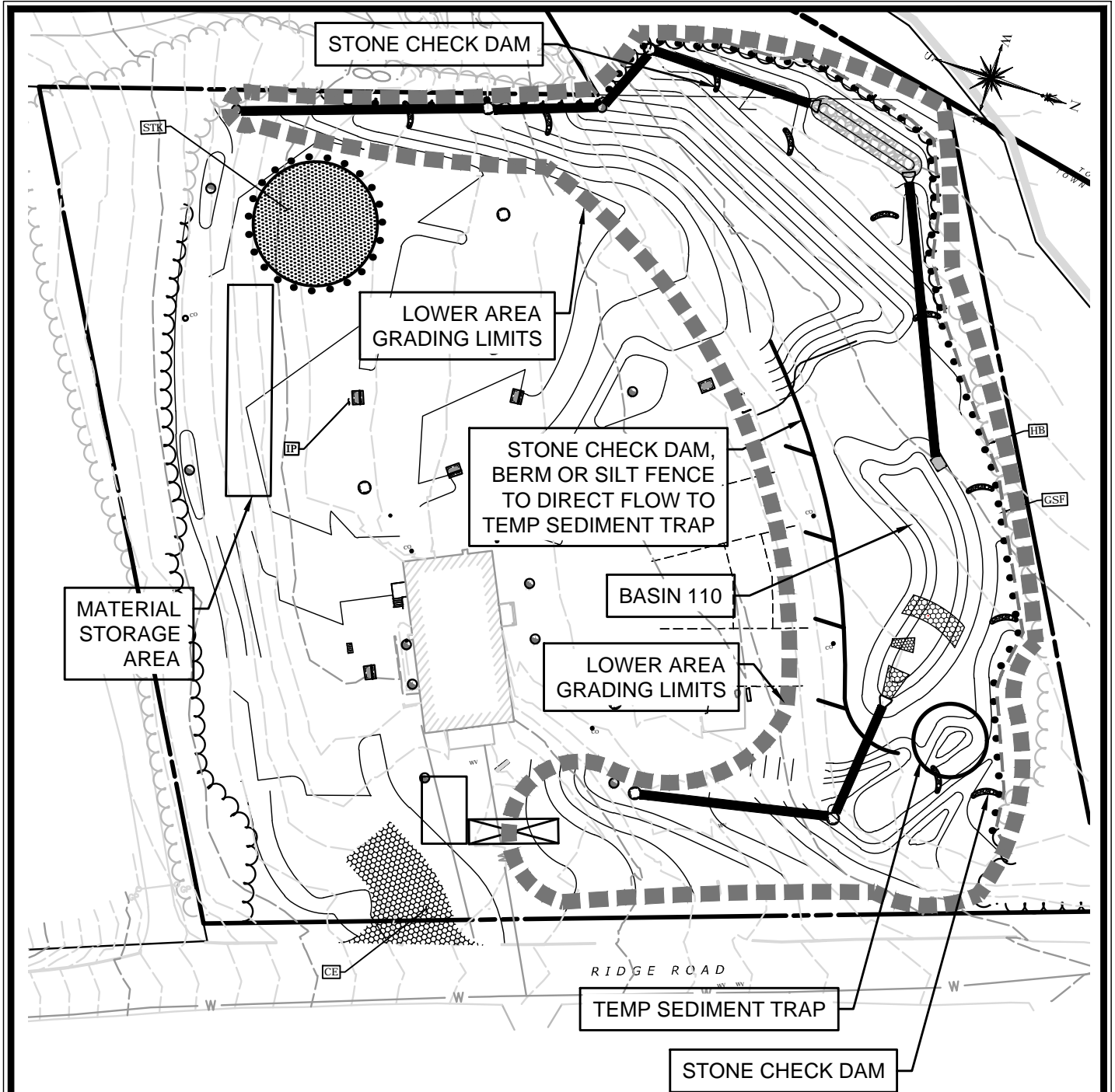
PROJECT PHASE: FOR CONSTRUCTION

REV: ---

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PROJ. NO.	6156-03	
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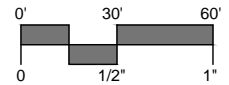
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**FIG. 1**

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**PHASE 2 CONSTRUCTION SEQUENCE:**

1. COMPLETE MASS GRADING, FORM BASINS AND INSTALL LOWER STORM DRAIN PIPING.
2. PLACE STONE CHECKS DAMS AS NECESSARY BASED ON FIELD CONDITIONS.
3. TEMPORARY SEED & MULCH LOWER AREA. MULCH WITH SPRAYED FILTER MATRIX IF OUTSIDE OPTIMAL SEEDING PERIOD.



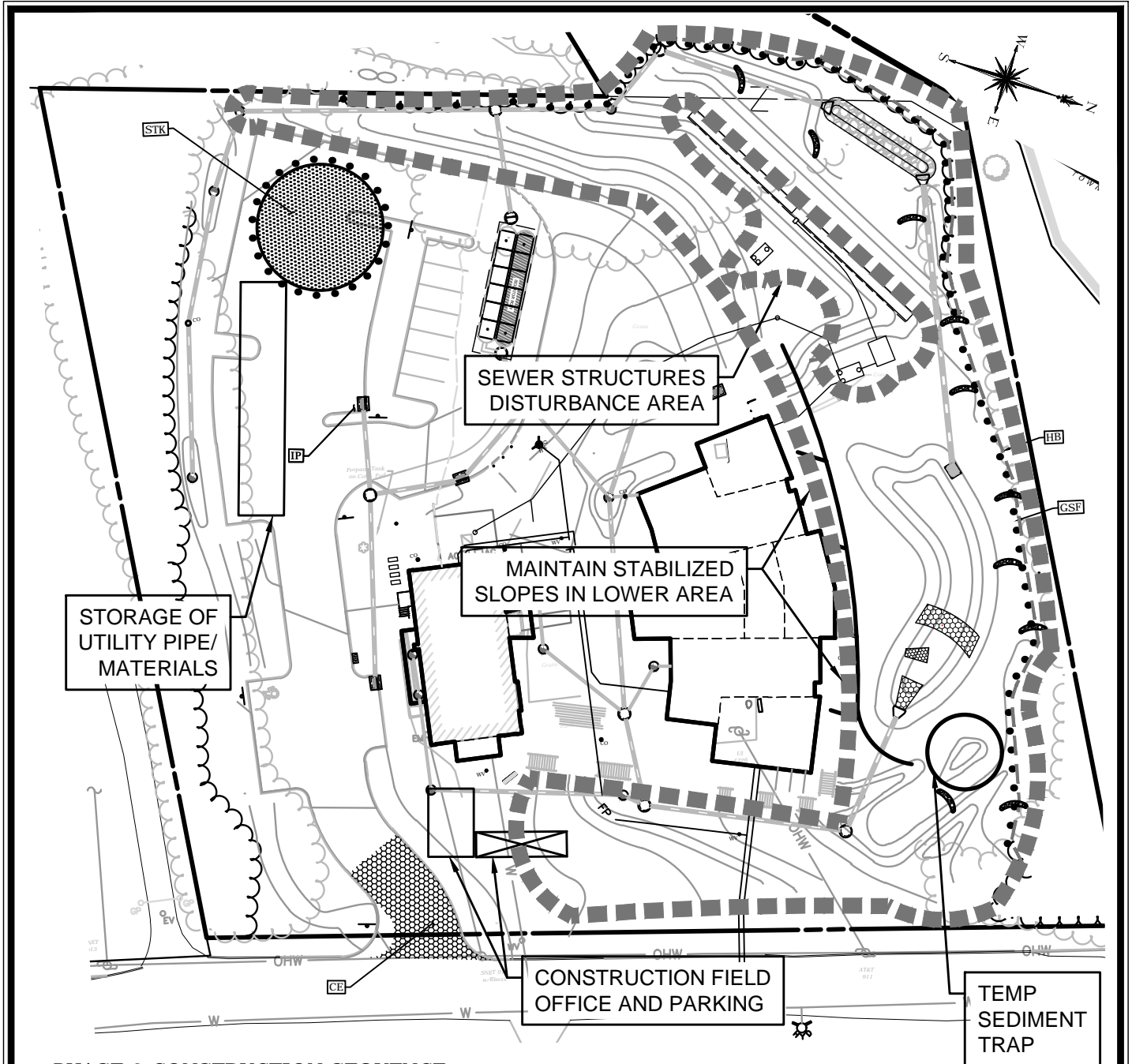
**PHASING PLANS - 2**  
**SLATE UPPER SCHOOL**  
**5100 RIDGE ROAD**  
**NORTH HAVEN, CONNECTICUT**

PROJECT PHASE: **FOR CONSTRUCTION**      REV: ---

DATE <b>2/2/2021</b>		
SCALE <b>1"=60'</b>		
PROJ. NO. <b>6156-03</b>		
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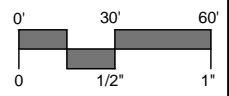
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**FIG. 2**

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**PHASE 3 CONSTRUCTION SEQUENCE:**

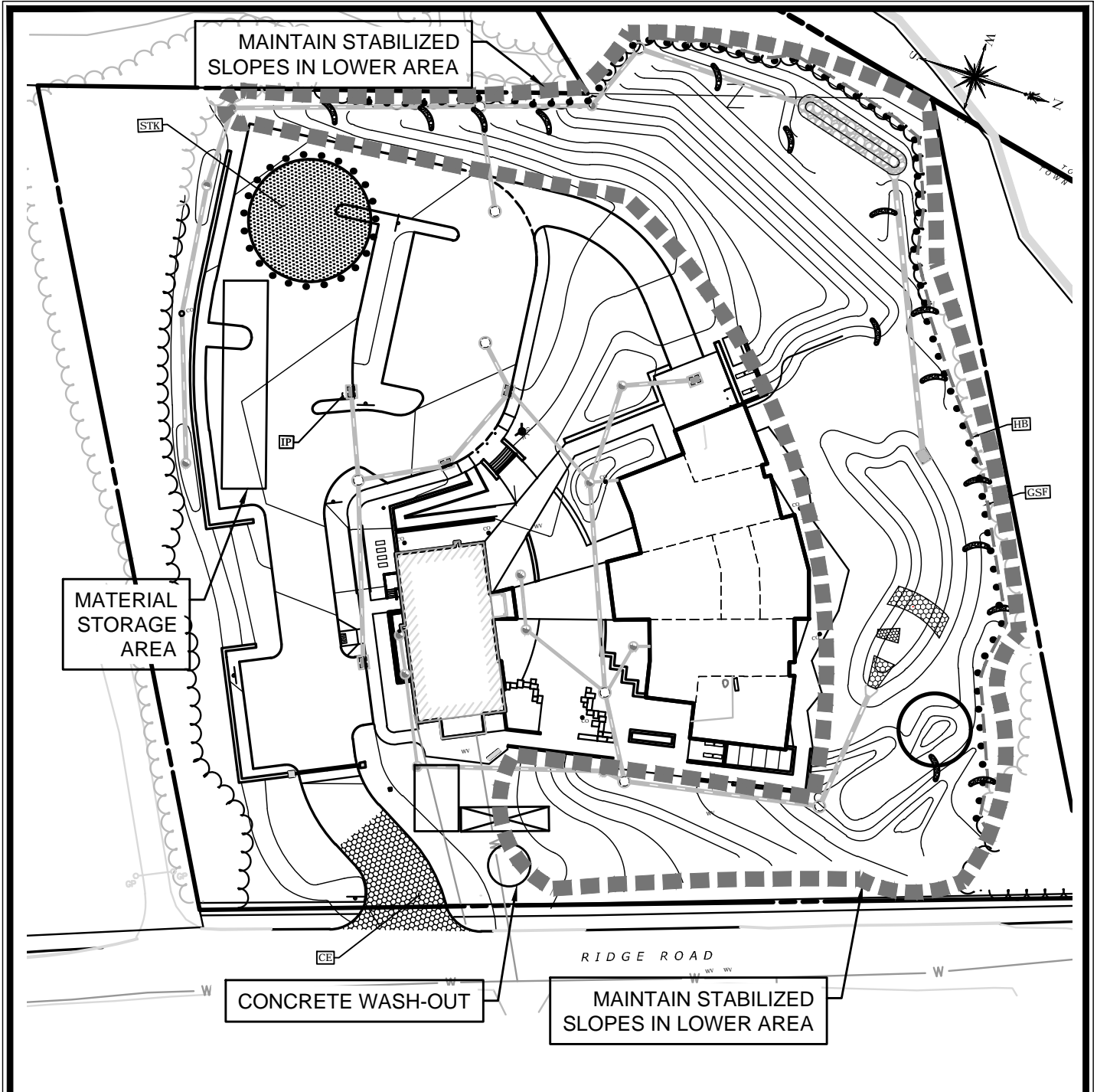
1. MAINTAIN STABILIZED SLOPES IN LOWER AREA TO GREATEST EXTENT POSSIBLE. ANY DISTURBANCE WILL IMMEDIATELY BE STABILIZED.
2. INSTALL SEWER STRUCTURES. TOPSOIL AND SEED BACKFILLED AREAS.
3. BUILDING FOUNDATIONS.
4. INSTALL UPPER STORM DRAINAGE PIPING.
5. INSTALL UNDERGROUND STORM STORAGE TANKS, ASSOCIATED PIPING & REMAINING UTILITIES.
6. REPLACE STONE CHECKS DAMS BASED ON FIELD CONDITIONS.



**PHASING PLANS - 3**  
**SLATE UPPER SCHOOL**  
**5100 RIDGE ROAD**  
**NORTH HAVEN, CONNECTICUT**  
 PROJECT PHASE: FOR CONSTRUCTION      REV: ---

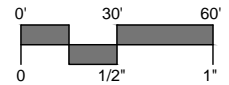
DATE <b>2/2/2021</b>		
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**PHASE 4 CONSTRUCTION SEQUENCE:**

1. MAINTAIN STABILIZED SLOPES IN LOWER AREA.
2. CONTINUE BUILDING WORK, SITE WALLS & SIDEWALKS.
3. UPPER AREA GRADING AND SEED.
4. PARKING LOT PREP & PAVE.



**PHASING PLANS - 4**  
**SLATE UPPER SCHOOL**  
**5100 RIDGE ROAD**  
**NORTH HAVEN, CONNECTICUT**

DATE <b>2/2/2021</b>		
SCALE <b>1"=60'</b>		
PROJ. NO. <b>6156.-03</b>		
DESIGNED <b>JAU</b>	DRAWN <b>JAU</b>	CHECKED <b>TD</b>

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**FIG. 4**

PROJECT PHASE: **FOR CONSTRUCTION**      REV: ---

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