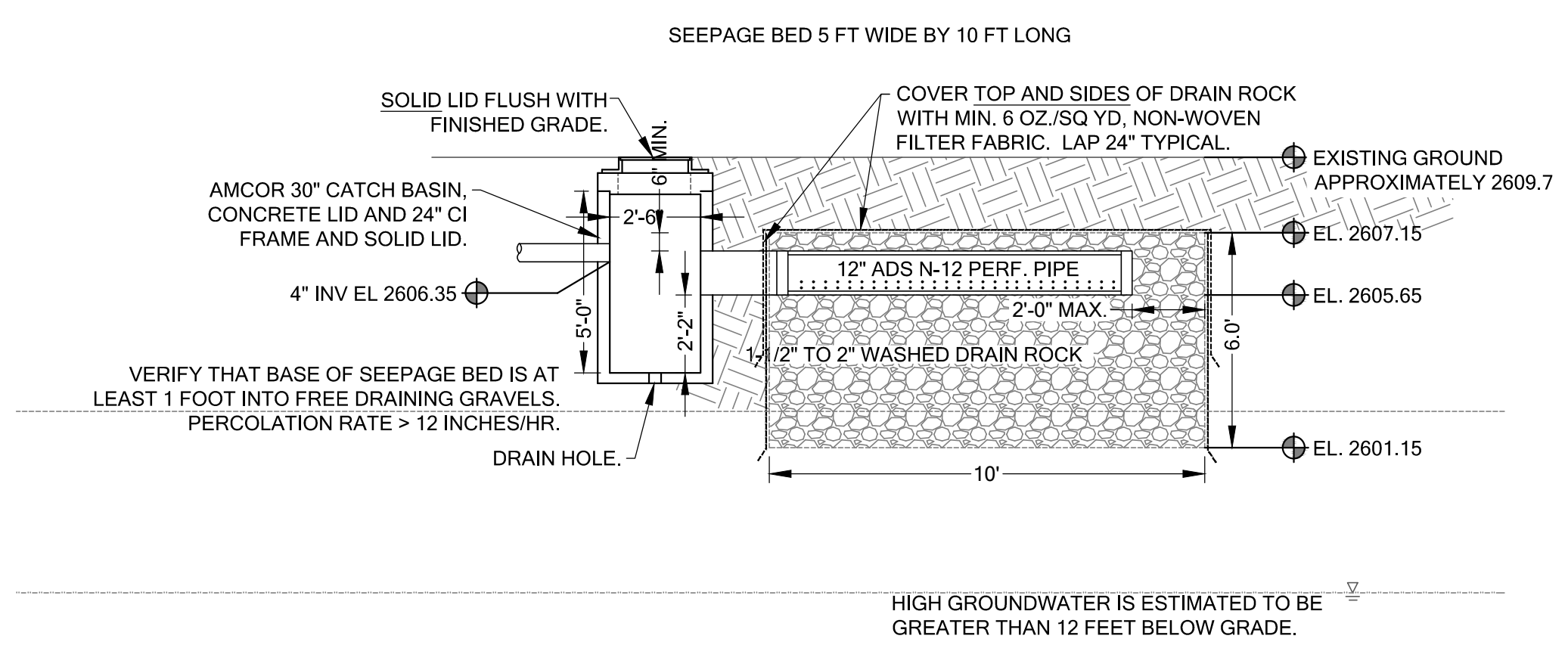


**1 GRADING AND DRAINAGE PLAN**  
 SCALE: 1" = 5'



**2 SEEPAGE BED DETAIL**  
 SCALE: NTS

- NOTES:**
1. ALL PIPE SHALL BE 12 INCH ADS, N-12 "SOIL TIGHT" PIPE. FITTINGS SHALL BE DUAL WALL FABRICATED "SOIL TIGHT". INSTALL PER MANUFACTURERS REQUIREMENTS.
  2. PERCOLATION RATE THROUGH WELL GRADED SANDY GRAVEL IS ESTIMATED TO BE GREATER THAN 8 INCHES/HR.
  3. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF GROUNDWATER IS ENCOUNTERED WITHIN 3-FEET OF THE BOTTOM DESIGN ELEVATION FOR ANY INFILTRATION FACILITY.
  4. CONTRACTOR SHALL POT HOLE TO BOTTOM DEPTH AND HAVE SOILS VERIFIED BY ENGINEER PRIOR TO COMPLETING EXCAVATION.

**STORMWATER CALCULATIONS**

**POST CONSTRUCTION CONTRIBUTING AREAS**

CONCRETE:	2181 SF	C = 0.95
LANDSCAPING:	0 SF	C = 0.20
<b>TOTAL AREA:</b>	<b>2181 SF</b>	<b>C = 0.95 (Weighted)</b>

**PRE CONSTRUCTION REPLACED AREAS**

CONCRETE:	444 SF	C = 0.95
LANDSCAPING:	1738 SF	C = 0.20
<b>TOTAL AREA:</b>	<b>2181 SF</b>	<b>C = 0.35 (Weighted)</b>

**100 YEAR STORM VOLUME**

$$100 \text{ YR-1 HOUR VSTORM} = (\text{CONT. AREA} \times \text{C-REPLACED AREA} \times \text{C}) \times (1"/12 \text{ IN./FT})$$

$$100 \text{ YR-1 HOUR VSTORM} = 109 \text{ CF}$$

**SEEPAGE BED CAPACITY**

BED AREA =	50.0 SF	10.0' L x 5.0' W
DEPTH =	6.0 FT	
VOIDS =	40%	
<b>DRAIN ROCK VOLUME =</b>	<b>GRAVEL AREA * DEPTH * VOIDS</b>	
<b>DRAIN ROCK VOLUME =</b>	<b>120 CF</b>	

**3 STORM WATER CALCULATIONS**  
 SCALE: NTS

**General Notes**

1. ELEVATIONS SHOWN ARE FOR CONCEPTUAL USE ONLY. CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND SLOPES AND ADJUST ACCORDING TO COMPLY WITH ADA REQUIREMENTS.
2. GRADE SLOPE ADJACENT TO NEW BUILDING AT A 10:1 MINIMUM SLOPE TO EXISTING.

**Key Notes:**

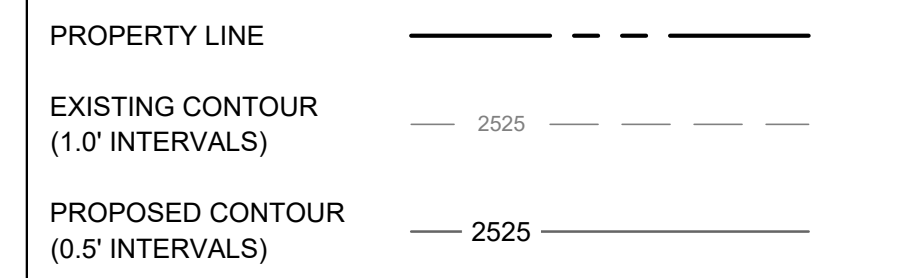
1. CONNECT TO ROOF DRAIN LEADER. LOCATION AND INVERT ARE APPROXIMATE. COORDINATE WITH MECHANICAL PLAN.
2. INSTALL 4" ASTM 3034, SDR 35 PVC STORM PIPE. FITTINGS ARE REQUIRED.
3. INSTALL SEEPAGE BED INLET MANHOLE. SEE DETAIL.
4. INSTALL 12" ADS N-12 HDPE PERFORATED PIPE.
5. PROPOSED SEEPAGE BED. SEE DETAIL.
6. INSTALL CONCRETE FLATWORK AND WALLS PER ARCHITECTURAL SITE PLAN DETAILS.
7. PATCH BACK WITH NEW ASPHALT CONCRETE PER ARCHITECTURAL.
8. MEET FLUSH.
9. ROOF DRAIN RELOCATION. INSTALL 4 INCH ASTM 3034, SDR 35, PVC STORM PIPE, FITTINGS AND CLEANOUTS TO GRADE, AS SHOWN AND AS REQUIRED. BID ALTERNATE NUMBER 1 ONLY.
10. BID ALTERNATE NUMBER 1.

**Specifications:**

- DRAINAGE:**
1. THE CONTRACTOR SHALL HAVE PLANS STAMPED "APPROVED FOR CONSTRUCTION" BY CITY OF MERIDIAN PUBLIC WORKS DEPARTMENT ON SITE AT ALL TIMES.
  2. ANY CHANGE FROM THE PLANS SHALL BE APPROVED BY THE DESIGNER AND THE CITY OF MERIDIAN PUBLIC WORKS DEPARTMENT.
  3. THE CONTRACTOR SHALL CONTACT THE CITY OF MERIDIAN PUBLIC WORKS DEPARTMENT FOR INSPECTION OF ALL STORM WATER FACILITIES PRIOR TO THE PLACEMENT OF FILTER FABRIC. MINIMUM 24-HOUR NOTICE IS REQUIRED. APPROVAL IS CONTINGENT UPON INSPECTION.
  4. SEPARATION FROM THE BOTTOM OF THE DRAINAGE FACILITY TO SEASONAL HIGH GROUNDWATER SHALL BE A MINIMUM OF 3'. CONTACT ENGINEER FOR REVISED DRAINAGE FACILITY DESIGN IF BOTTOM OF FACILITY IS WITHIN 3' OF SEASONAL HIGH GROUNDWATER ELEVATION. RE-DESIGNED FACILITY SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT.

**Legend**

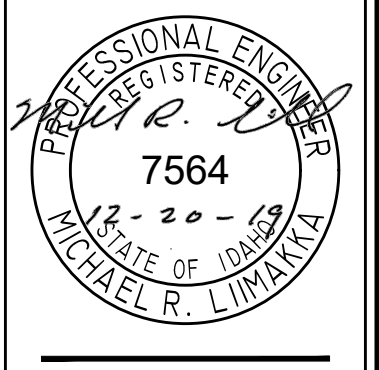
AC	ASPHALT	IE	INVERT ELEV.
BW	BOTTOM OF WALL	LG	LIP OF GUTTER
CR	CROWN	LP	LOW POINT
EX	EXISTING	MX	MATCH EXISTING
FF	FINISHED FLOOR	RIM	RIM ELEVATION
FG	FINISHED GRADE	TC	TOP OF CURB
FL	FLOW LINE	TS	TOP OF SLAB
GB	GRADE BREAK	TW	TOP OF WALL
HP	HIGH POINT		



REVIEW SET - NOT FOR CONSTRUCTION - 12/20/19

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 208.336.3443



**Meridian Medical Arts Charter High School Addition**  
 1789 E. Heritage Park Lane, Meridian, Idaho  
 for West Ada School District, Meridian, Idaho

DATE: December 20, 2019  
 LKV PROJECT #:  
 REVISIONS:

DRAWN BY: MS  
 CHECKED BY: WT

Proposed Classroom Addition

DRAWING NO.

**C-1.0**