

**KENWOOD QUANTITIES**

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, INCLUDING DETERMINATION OF ALL QUANTITIES, PRIOR TO THE WORK. BASE BID AMOUNT INCLUDES ALL WORK TO ACCOMPLISH THAT WHICH IS ILLUSTRATED ON THE PLAN, UNLESS OTHERWISE NOTED.

"ESTIMATED" QUANTITIES PROVIDED ARE FOR THE CONTRACTOR'S REFERENCE ONLY. "ASSUMED" QUANTITIES SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID COST. FINAL QUANTITIES WILL BE ADJUSTED USING UNIT PRICES.

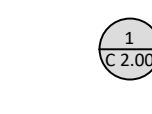
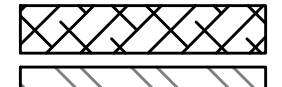
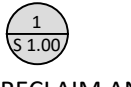


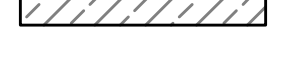
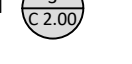
**NORTH PARKING LOT**  
 ESTIMATED BITUMINOUS SEAL COAT = 1580 S.Y.  
 ASSUMED BITUMINOUS CRACK SEAL = 520 L.F.  
 ASSUMED MEDIUM DUTY BITUMINOUS PAVEMENT REPAIR = 30 S.Y.

**SOUTH PARKING LOT**  
 ESTIMATED RECLAIM AND REPAVE HEAVY DUTY = 690 S.Y.  
 ESTIMATED WALL REPAIR = 20 L.F.

**NOTES**

- REFER TO SHEET T1.00, TITLE SHEET, FOR RELATED GENERAL NOTES.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BIDDING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SHOOTING AND RECORDING EXISTING PAVEMENT SURFACE ELEVATIONS. ONCE BITUMINOUS PAVEMENT HAS BEEN REMOVED, THE CONTRACTOR SHALL BE RE-ESTABLISH ELEVATIONS THAT WILL ENSURE POSITIVE DRAINAGE AS APPROPRIATE.
- RESTRIPE PARKING LOT STALLS AS APPLICABLE. OBSERVE AND MAP EXISTING PRIOR TO BEGINNING WORK.

**LEGEND**

-  REFERENCE KEY TO SITE DETAILS  
DETAIL I.D. NUMBER (TOP)  
DETAIL SHEET NUMBER (BOTTOM)
-  RETAINING WALL REPAIR 
-  BITUMINOUS PAVEMENT RECLAIM AND REPAVE HEAVY DUTY 
-  BITUMINOUS PAVEMENT CRACKSEAL / SEALCOAT 

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jay R. Pomeroy  
 LIC. NO. 23543 DATE 01/12/2024



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 GOLDEN VALLEY, MINNESOTA 55427  
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DESIGNED	NO.	ISSUED FOR	DATE
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CLIENT PROJ. NO.			
24-2411			

MINNEAPOLIS, MN  
 FY24 SITE WORK  
 KENWOOD ELEMENTARY SCHOOL

SHEET  
 C 1.60

ALTERNATE 4

**GENERAL NOTES**

1. TYPICAL STRUCTURAL DETAILS AND NOTES SHALL APPLY UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. EXAMINE SITE AND DRAWINGS TO DETERMINE LOCATIONS AND DIMENSIONS OF UTILITIES, AND SITE IMPROVEMENTS.
3. BEFORE CONSTRUCTION FABRICATION AND ERECTION OF ANY MATERIALS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS, DIMENSIONS AND CONDITIONS AS SHOWN ON THE DRAWINGS AND REPORT DISCREPANCIES TO THE ENGINEER AT ONCE FOR RESOLUTION.
4. THE STRUCTURAL DESIGN IS BASED ONLY ON THE STRUCTURE IN ITS COMPLETED STATE. CONTRACTORS AND THEIR SUBCONTRACTORS SHALL TAKE WHATEVER PRECAUTIONS ARE NECESSARY TO WITHSTAND ALL HORIZONTAL AND VERTICAL LOADING THAT MAY BE ENCOUNTERED DURING THE CONSTRUCTION PROCESS PRIOR TO THE COMPLETION OF THE STRUCTURE.
5. WRITTEN DISTANCES & ELEVATIONS SHALL GOVERN OVER SCALED DISTANCES & ELEVATIONS.
6. ELEVATIONS ARE BASED ON THE BENCH MARKS NOTED ON THE DRAWINGS.

**MATERIAL NOTES:**

REINFORCED CONCRETE:

CONCRETE: 4000 PSI @ 28 DAYS  
AIR CONTENT: 6.5% ± 1.5%  
W/C+P: 0.42

REINFORCEMENT BARS:  
DEFORMED BARS ASTM A615, GRADE 60

**DESIGN CRITERIA & LOADING**

1. CODE: 2018 INTERNATIONAL BUILDING CODE (IBC).
2. DESIGN LOADING:

LIVE SURCHARGE LOAD: 100 PSF  
RISK (OCCUPANCY) CATEGORY: I

**CONCRETE NOTES:**

1. LAP SPLICES AND 90 DEGREE END HOOKS SHALL BE AS SHOWN BELOW UNLESS NOTED. WHEN BARS OF TWO DIFFERENT SIZES ARE SPLICED, THE LONGER LAP LENGTH SHALL APPLY.

F'C=4000 PSI BAR SIZE	SLAB, WALL, COLUMN		BEAM		90 DEGREE HOOK
	BAR LAP	TOP BAR	BAR LAP	TOP BAR	
#4	25 IN.	32 IN.	37 IN.	48 IN.	8 IN.
#5	31 IN.	40 IN.	46 IN.	60 IN.	10 IN.
#6	37 IN.	48 IN.	56 IN.	72 IN.	12 IN.

\*TOP BAR LAP SPLICES ARE HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 12 IN. OF CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE

2. REINFORCING BARS SHALL HAVE THE FOLLOWING CONC. COVER UNLESS NOTED OTHERWISE.

FOOTINGS AND OTHER UNFORMED SURFACES 3"  
CONCRETE EXPOSED TO EARTH, WEATHER OR FLUIDS  
#6 BARS OR LARGER 2"  
#5 BARS OR SMALLER 1-1/2"  
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND  
BEAMS, COLUMNS, TIES, SPIRALS AND STIRRUPS 1-1/2"  
SLABS, WALLS & JOISTS 3/4"

3. CAST-IN-PLACE CONCRETE SHALL NOT BE PLACED IN STANDING WATER, ON FROZEN SOIL OR ON FROZEN CONCRETE.
4. BEVEL ALL EXPOSED CORNERS OF CONCRETE 3/4" x 3/4".

**EXISTING CONSTRUCTION:**

1. BEFORE FABRICATION AND ERECTION OF ANY MATERIALS, FIELD VERIFY ALL EXISTING ELEVATIONS, DIMENSIONS, AND CONDITIONS AS SHOWN ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
2. CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTION OF EXISTING BUILDING DURING ALL PHASES OF CONSTRUCTION.
3. PROVIDE ALL SHORING, BRACING, ETC., AS REQUIRED TO TEMPORARILY SUPPORT THE EXISTING WALL DURING REMOVAL OF EXISTING STRUCTURAL ELEMENTS.

**EXCAVATION NOTES:**

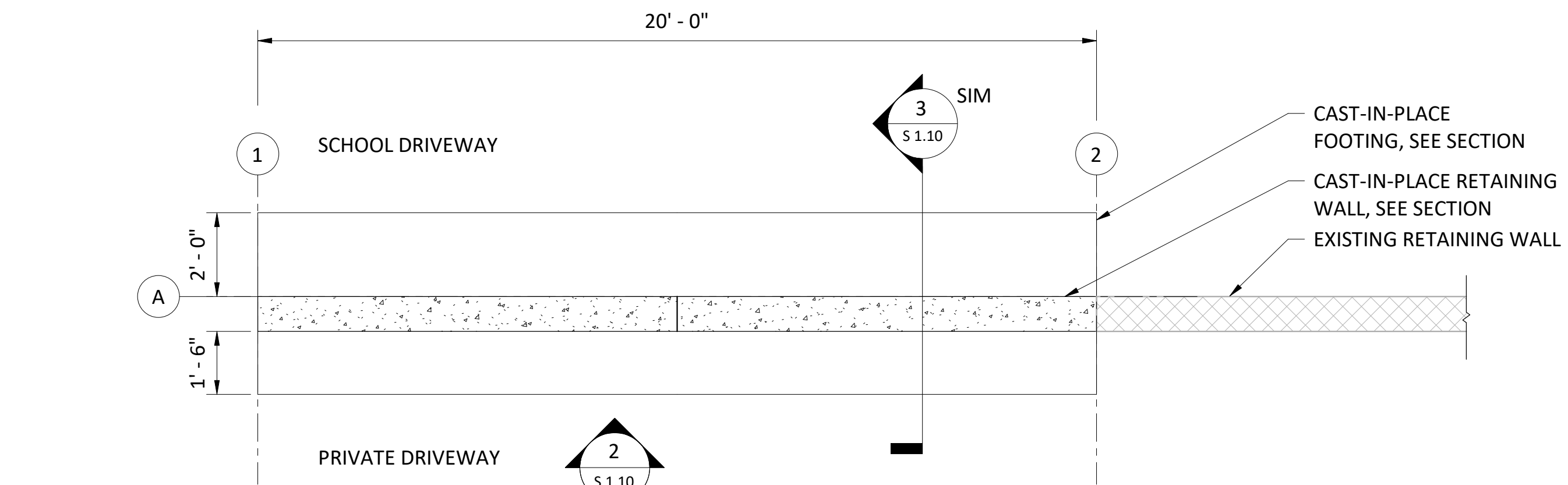
1. TEMPORARY GROUND CONTROL IS BY CONTRACTOR DESIGN.
2. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY SHEETING AND BRACING NECESSARY TO PROTECT PERSONNEL AND ADJACENT PROPERTY FROM INJURY OR DAMAGE DURING CONSTRUCTION OPERATION.
3. EXCAVATIONS OR TRENCHING WITHIN CLOSE PROXIMITY TO UNDERGROUND STRUCTURES, UTILITIES, OR UTILITY POLES WILL REQUIRE PROTECTION AND SUPPORT TO PREVENT DAMAGE OR INTERRUPTION TO SERVICE. THE COST TO PROVIDE THIS PROTECTION SHALL BE INCLUDED IN THE CONTRACTOR'S TOTAL BID PRICE.

**FOUNDATION AND SOIL NOTES:**

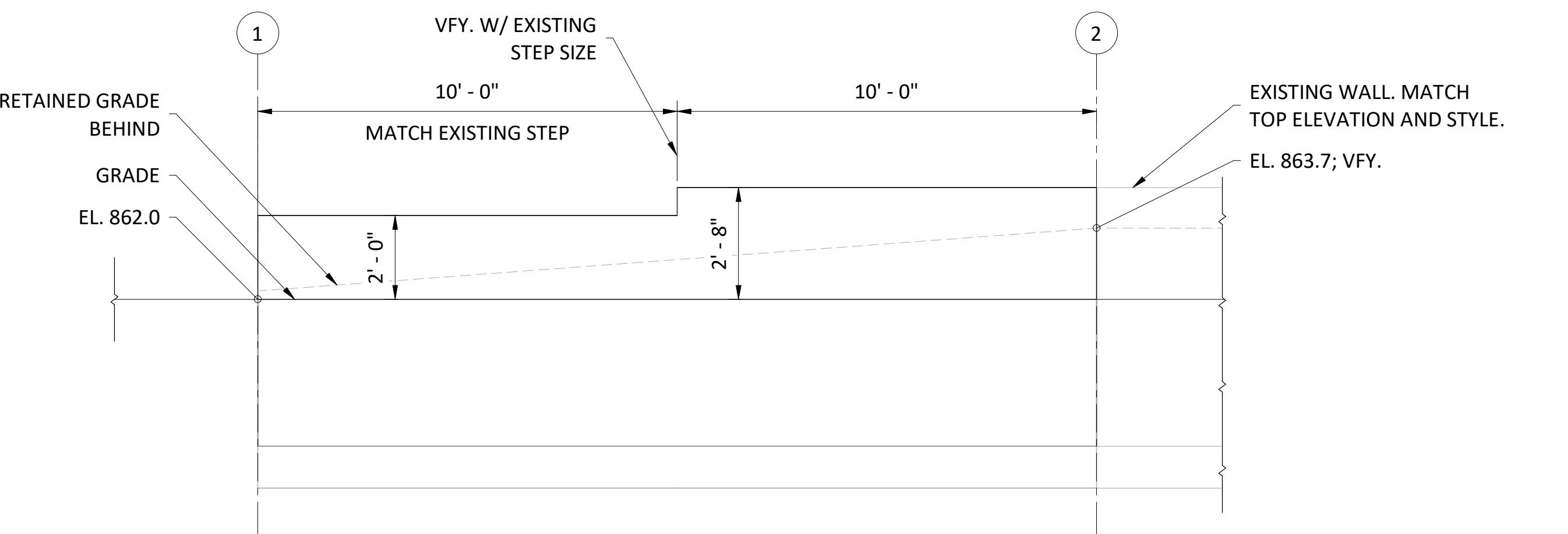
1. THE GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE FOUNDATION BEARING SURFACES PRIOR TO THE PLACEMENT OF FOOTINGS OR FOUNDATION.
2. PROVIDE A MINIMUM OF 5'-0" OF SOIL COVER AT ALL STRUCTURE FOOTINGS.
3. PROTECT FOUNDATION SOILS FROM FREEZING DURING CONSTRUCTION.
4. PLACE FILL AND BACKFILL AND COMPACT TO FOLLOWING MAXIMUM STANDARD PROCTOR DENSITIES UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS:

LOCATION	DENSITY
FILL BELOW FOOTINGS	100%
FILL BELOW SLABS ON GRADE	98%
PIPE AND STRUCTURE EXCAVATIONS	95%
GREEN SPACES	90%

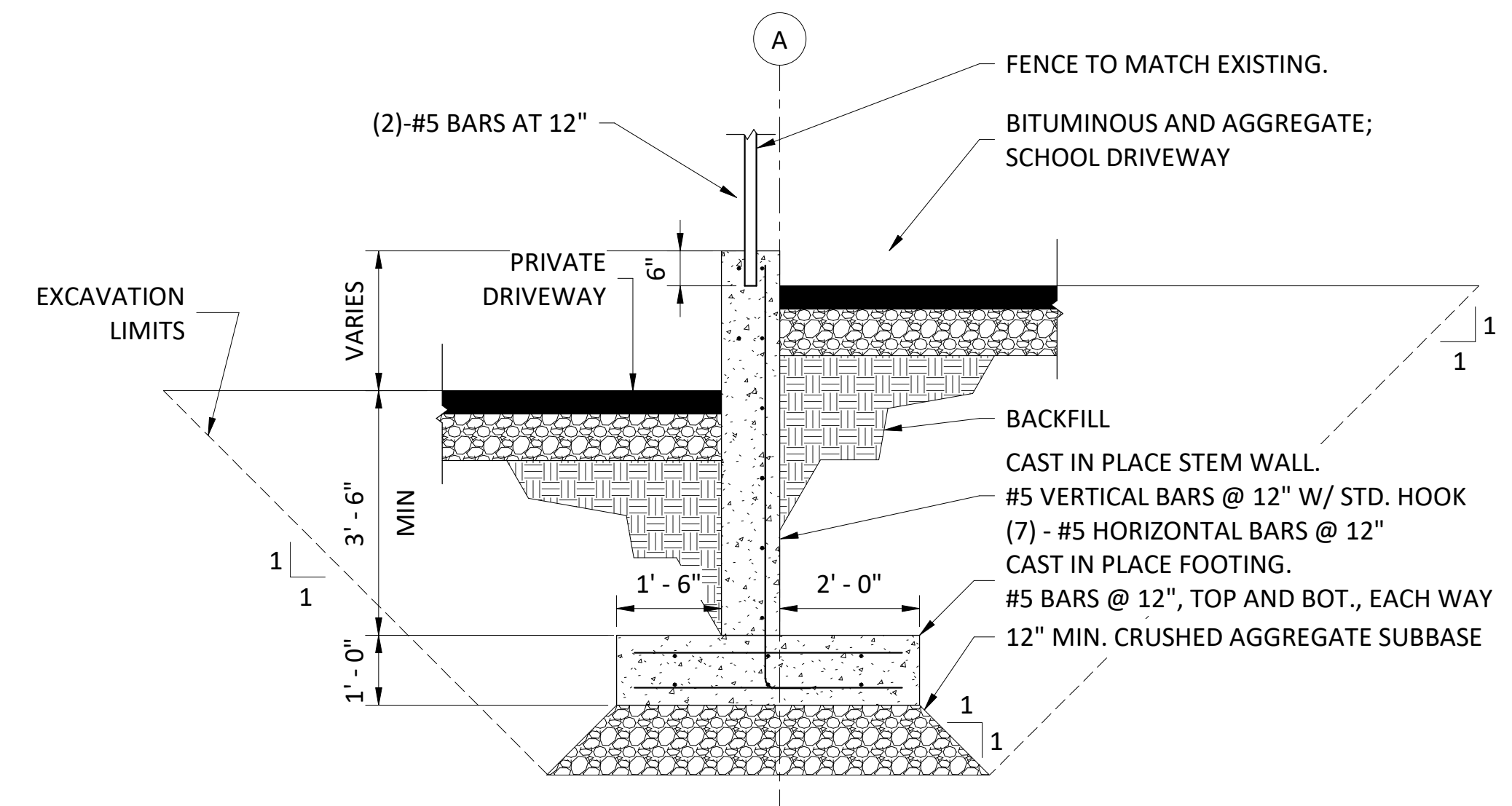
5. FOUNDATION DESIGN IS BASED ON BORING LOGS  
PROJECT NO. B2306608  
DATED: 07/26/23  
PREPARED BY: BRAUN INTERTEC CORPORATION
6. ASSUMED ALLOWABLE SOIL BEARING PRESSURE: 2,000 PSF  
BEARING CAPACITY FAILURE FACTOR OF SAFETY: 3.0



1 PLAN - RETAINING WALL  
3/8" = 1'-0"



2 Elevation 1 - a  
3/8" = 1'-0"



3 SECTION - RETAINING WALL  
1/2" = 1'-0"

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SCALES SHOWN ARE BASED ON FULL SIZE (22X34) DRAWINGS. REDUCE SCALES BY 2 FOR 11X17 DRAWINGS.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JASON C. GRAHAM  
LIC. NO. 51637 DATE 01/12/2024



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DESIGNED	NO.	ISSUED FOR	DATE
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JCG			
CLIENT PROJ. NO.	24-2411		

MINNEAPOLIS, MN  
FY24 SITE WORK  
KENWOOD ELEMENTARY SCHOOL

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