

**OCTOBER 18, 2023**

**RE: STEWART AVENUE SANITARY SEWER IMPROVEMENTS AND NORTHEAST  
SANITARY SEWER IMPROVEMENTS  
PHILIP, SOUTH DAKOTA  
SPN #16005/16006**

**BID LETTING: TUESDAY, OCTOBER 31, 2023, 1:00 PM  
(MOUNTAIN TIME)**

## ***ADDENDUM NUMBER 1***

**The following modifications are to be made to the plans for the Stewart Avenue Sanitary Sewer Improvements Project.**


### **PLANS**

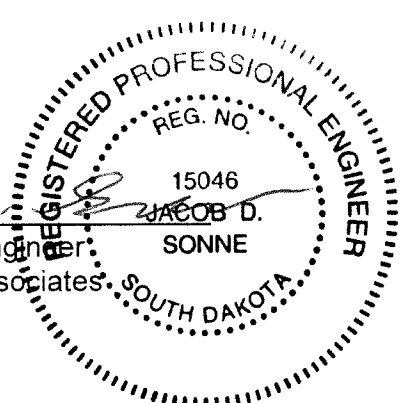
#### **Plan Sheets S001, S100, S200, S201**

Remove these plan sheets in their entirety and replace them with the revised sheets dated 10/13/2023, which are attached to this addendum. The sheets were revised to change modular block type to World Block.

#### **Plan Sheet S202**

Add this plan sheet, which is attached to this addendum.

  
Jacob D. Sonne, Project Engineer  
Schmucker, Paul, Nohr & Associates



The undersigned hereby acknowledges receipt of Addendum Number 1 to the plans and specifications for the STEWART AVENUE SANITARY SEWER IMPROVEMENTS PROJECT.

FIRM NAME \_\_\_\_\_  
BY \_\_\_\_\_  
TITLE \_\_\_\_\_  
DATE \_\_\_\_\_

**ATTACH THIS SIGNED ADDENDUM NO. 1 TO THE BID FORM WHEN SUBMITTING.**

GENERAL NOTES:

1.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
2.
- THE WALL(S) ARE DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE STRUCTURES AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING (AND ACCOMPANYING FOOTINGS), GUYS OR TIEDOWNS.
3.
- ADDITIONAL OBSERVATIONS AS A RESULT OF REJECTION OF WORK COMPLETED AND/OR ADDITIONAL OBSERVATIONS DUE TO DEFICIENCIES IN WORK OBSERVED WILL BE AT THE EXPENSE OF THE CONTRACTOR.
4.
- THE DESIGN OF THIS RETAINING WALL SHOWN IN THESE CONSTRUCTION DOCUMENTS IS FOR THE ONE TIME USE AT THE SPECIFIC ADDRESS REFERENCED IN THE GEOTECHNICAL REPORT.

DESIGN CODES:

- 2021 INTERNATIONAL BUILDING CODE

DESIGN LOADS:

1.
- THE STRUCTURAL SYSTEMS FOR THE RETAINING WALLS HAVE BEEN DESIGNED BASED UPON THE FOLLOWING SOIL PARAMETERS.

EXISTING SOIL :

Ø = 25°

γ = 120 lb/ft<sup>3</sup>

c = 0 lb/ft<sup>2</sup>

IMPORTED CLEAN ROCK FILL :

Ø = 40°

γ = 135 lb/ft<sup>3</sup>

c = 0 lb/ft<sup>2</sup>
2.
- WALLS HAVE BEEN DESIGNED USING LATERAL EARTH PRESSURES BASED FROM SOIL PROPERTIES DESCRIBED ABOVE. CONTRACTOR SHALL PROVIDE BACKFILL MEETING THESE SOIL PARAMETERS.
3.
- WALLS HAVE BEEN DESIGNED WITH GRADES SHOWN IN CIVIL DRAWINGS.

FOUNDATIONS:

1.
- SEE THE FOLLOWING REPORTS FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES. SITE PREPARATION AND FOUNDATION SHALL COMPLY WITH THE FOLLOWING REPORTS:

- PREPARED BY: SOIL TECHNOLOGIES, INC.

- TITLE: SOIL EXPLORATION SERVICES  
PROPOSED SANITARY SEWER IMPROVEMENTS & RETAINING WALL  
PHILIP, SD  
STI PROJECT No. #23-1798

- DATE: JUNE 13, 2023
2.
- ALL STRUCTURAL DESIGNS WERE BASED UPON STAYING WITHIN THE LIMITS GIVEN WITHIN THE GEOTECHNICAL REPORT FOR THE LOADS PRESCRIBED BY THE BUILDING CODE REFERENCED IN THE DESIGN CODES SECTION OF THESE STRUCTURAL NOTES.
3.
- DESIGNS BASED UPON A LEVELING PAD SUBGRADE ALLOWABLE BEARING CAPACITY OF 2,500 psf. SEE GEOTECHNICAL REPORT FOR ALL REQUIREMENTS RELATED TO THE CONSTRUCTION OF THE LEVELING PAD SUBGRADE.

CLEAN ROCK IMPORTED FILL GRADATION:

1.
- WHERE CLEAN ROCK IS INDICATED IN PLANS, MATERIAL SHALL BE A CRUSHED LIMESTONE ROCK HAVING A MINIMUM OF TWO FRACTURED FACES AND MEET THE FOLLOWING GRADATION REQUIREMENTS BY DRY WEIGHT:

PASSING 1½" SIEVE : 100%

PASSING #200 SIEVE: 5% MAX
2.
- PLACE MATERIAL IN MAXIMUM 12" LIFTS AND COMPACT WITH EQUIPMENT. FIRST 2 LIFTS SHALL BE INSPECTED BY GEOTECHNICAL REPRESENTATIVE.

STRUCTURAL SHEET INDEX	
SHEET NUMBER	SHEET NAME
S001	GENERAL STRUCTURAL NOTES
S100	RETAINING WALL ELEVATION
S200	TIERED RETAINING WALL SECTION
S201	RETAINING WALL SECTION
S202	RETAINING WALL SECTION

DRAIN TILE:

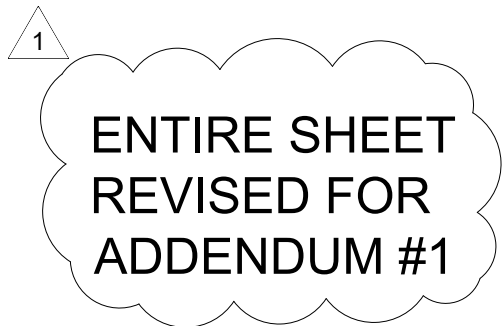
1.
- DRAIN TILE SHALL BE 4" PERFORATED PVC CONFORMING TO ASTM D 1784 AND ASTM D 2729.
2.
- ALL FITTINGS SHALL BE PVC OR STYRENE.

GEOTEXTILE FABRIC:

1.
- FABRIC SHALL BE NON WOVEN US 205NW FABRIC AND SATISFY REQUIREMENTS PER AASHTO M-288, SURVIVABILITY CLASS 1.
2.
- FABRIC SHALL BE INSTALLED AT TOP HORIZONTAL AND BACK VERTICAL INTERFACE BETWEEN IMPORTED GRAVEL FILL AND ADJACENT SOIL.
3.
- CARE SHALL BE TAKEN BY CONTRACTOR AS TO NOT PUNCTURE FABRIC DURING INSTALLATION.

MODULAR BLOCK RETAINING WALL:

1.
- MODULAR BLOCK RETAINING WALL UNITS SHALL BE WORLD BLOCK (24"x48"x24").
2.
- LEVELING PAD SHALL BE A 12" THICK COMPACTED GRANULAR FILL AS INDICATED IN THE STRUCTURAL DRAWINGS. EXISTING IN-SITU FOUNDATION SOILS SHALL BE INSPECTED AND APPROVED PER THE GEOTECHNICAL REPORT PRIOR TO LEVELING PAD PLACEMENT.
3.
- FREE DRAINING BACKFILL MATERIAL SHALL BE A CLEAN ROCK AS INDICATED.
4.
- WALL UNIT INSTALLATION SHALL BE AS PER THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS. ONLY HAND-OPERATED PLATE COMPACTING EQUIPMENT SHALL BE USED WITHIN 3 FEET OF THE WALL TO ACHIEVE CONSOLIDATION. COMPACT BACKFILL AS PER THE GEOTECHNICAL REPORT



Albertson Engineering Inc.

605.343.9606

www.albertsonengineering.com

Offices in Rapid City,  
Sioux Falls, & Winner

PROJECT IDEN:

STEWART AVENUE  
SANITARY SEWER  
IMPROVEMENTS

PHILIP, SOUTH DAKOTA

ISSUE BLOCK:

NO	ISSUE TYPE	ISSUE DATE
1	ADDENDUM #1	10/13/23

MANAGEMENT:

PROJECT NO: 23-076

DRAWN BY: JRK

CHECKED BY: JDS

SHEET TITLE:

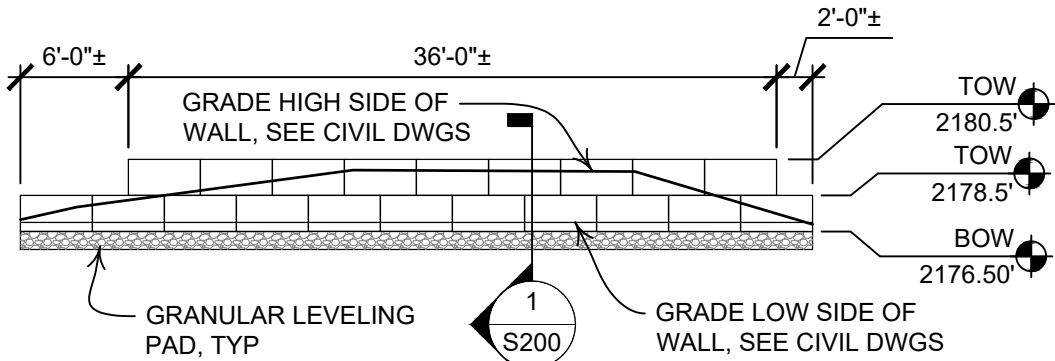
GENERAL  
STRUCTURAL NOTES

SHEET IDENTIFICATION:

S001

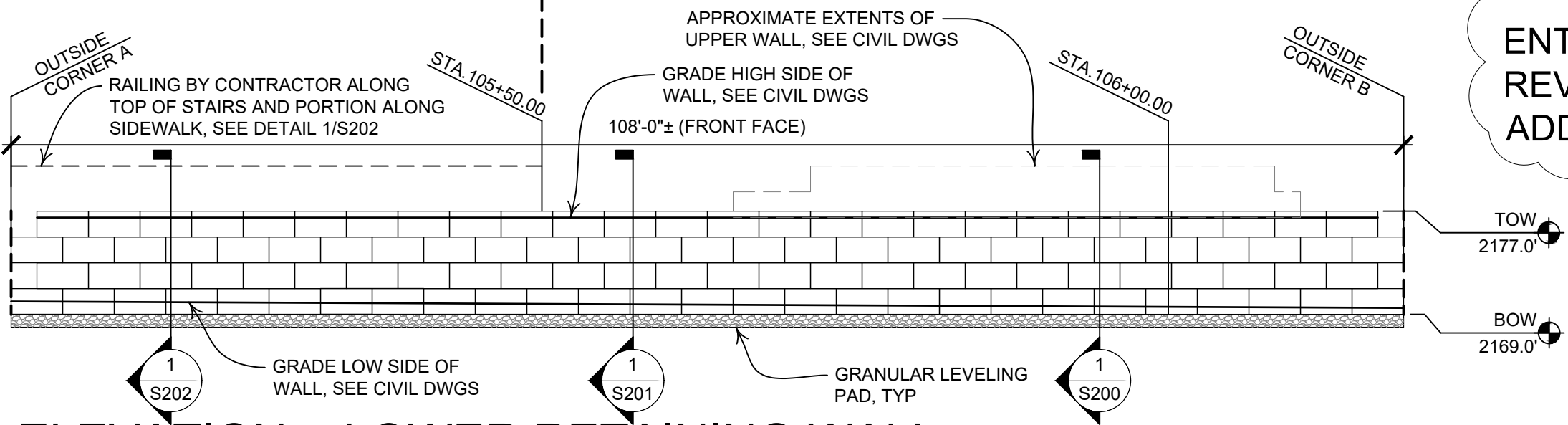
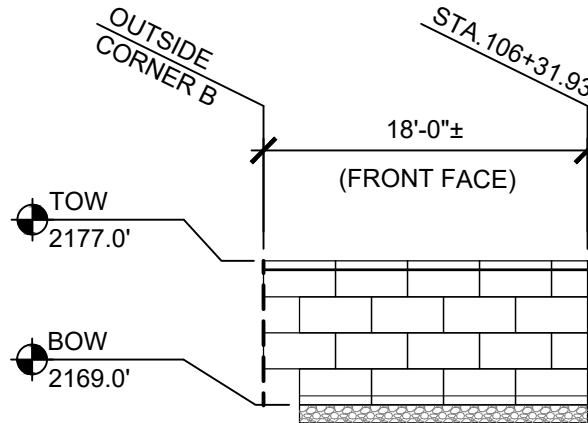
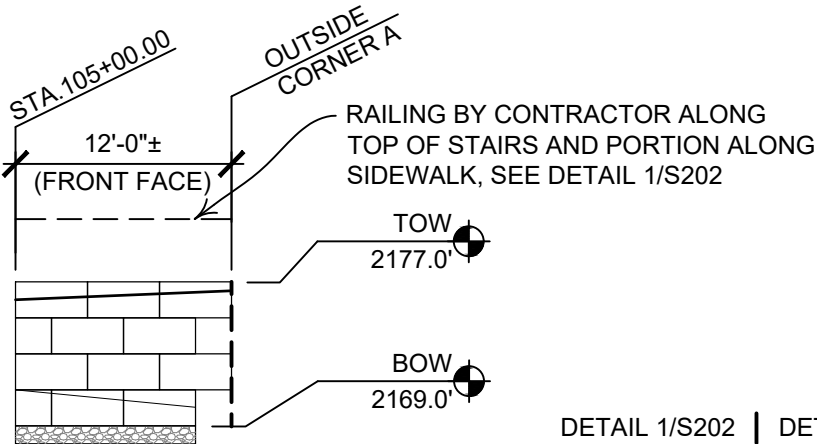
RETAINING WALL NOTES:

- 1. SEE CIVIL DRAWINGS BY SPN & ASSOCIATES FOR PLAN LAYOUT & LOCATION.
- 2. UPPER AND LOWER WALL SHALL HAVE SIMILAR CURVATURE TO CURB & GUTTER, SEE CIVIL DWGS.
- 3. COORDINATE STATIONS SHOWN WITH CIVIL DWGS.
- 4. GEOGRID SHALL NOT BE REQUIRED ALONG WALL FROM STA. 105' + 0.00" TO STA. 105' + 50.00".



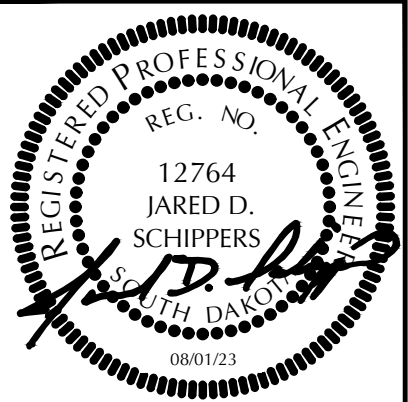
ELEVATION - UPPER RETAINING WALL

SCALE: 3/32" = 1'-0"



ELEVATION - LOWER RETAINING WALL

SCALE: 3/32" = 1'-0"



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PHILIP, SOUTH DAKOTA

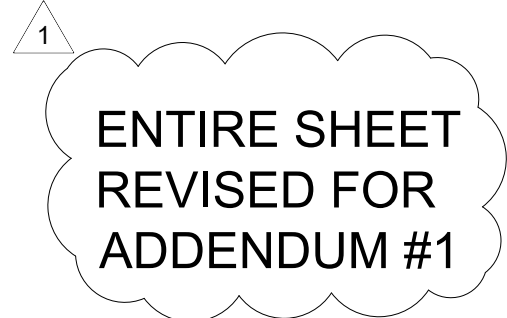
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NO	ISSUE TYPE	ISSUE DATE
1	ADDENDUM #1	10/13/23

MANAGEMENT:  
PROJECT NO: 23-076  
DRAWN BY: JRK  
CHECKED BY: JDS

SHEET TITLE:  
RETAINING WALL  
ELEVATION

SHEET IDENTIFICATION:  
  
S100

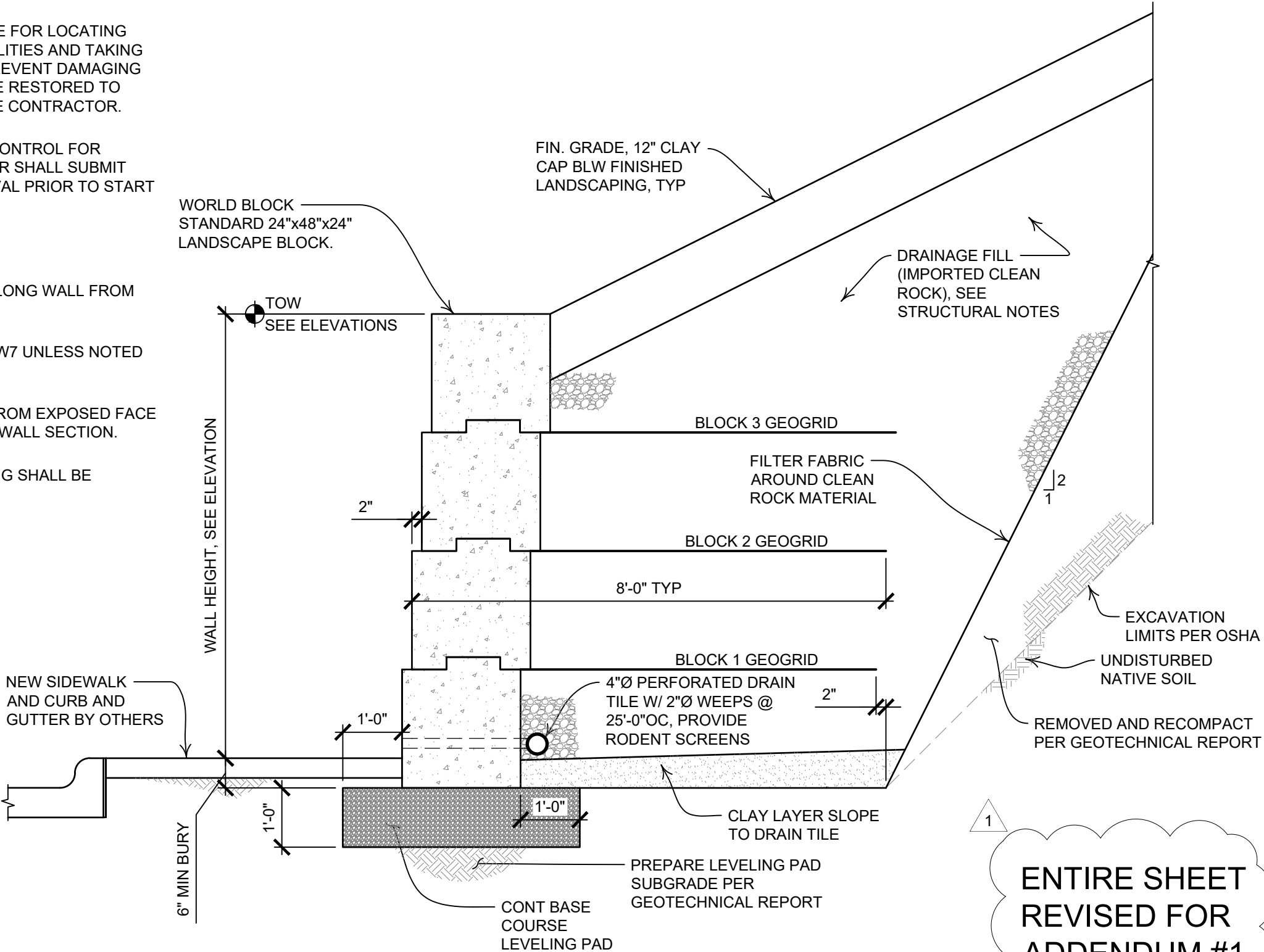
## A



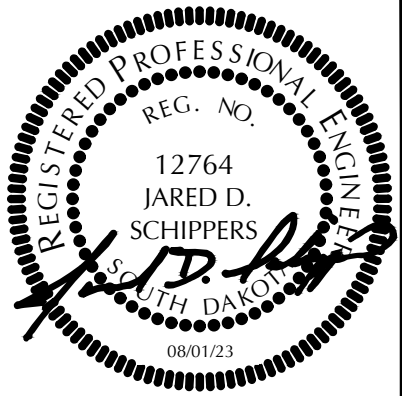
1

RETAINING WALL NOTES:

- 1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
- 2. DIMENSIONS AND ELEVATIONS ARE APPROXIMATE MAY VARY ±1/2". CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL OVERHEAD & UNDERGROUND UTILITIES AND TAKING ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGING ALL UTILITIES. ANY DAMAGE SHALL BE RESTORED TO MATCH EXISTING AT THE COST OF THE CONTRACTOR.
- 4. CONTRACTOR TO PROVIDE TRAFFIC CONTROL FOR DURATION OF PROJECT. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
- 5. (E) INDICATES EXISTING.
- 6. GEOGRID SHALL NOT BE REQUIRED ALONG WALL FROM STA. 105' + 0.00" TO STA. 105' + 50.00".
- 7. GEOGRID REINFORCING SHALL BE SRW7 UNLESS NOTED OTHERWISE.
- 8. LENGTH OF GEOGRID IS MEASURED FROM EXPOSED FACE OF WALL AS INDICATED IN RETAINING WALL SECTION.
- 9. ENTIRE LENGTH OF WALL REINFORCING SHALL BE INSTALLED IN ENGINEERED FILL AREA.



1 RETAINING WALL DETAIL  
S201 SCALE: 1/2" = 1'-0"



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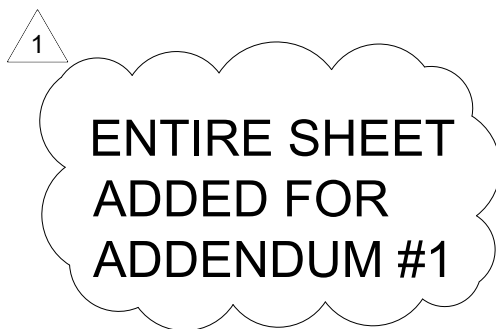
MANAGEMENT:  
PROJECT NO: 23-076  
DRAWN BY: JRK  
CHECKED BY: JDS

SHEET TITLE:  
**RETAINING WALL  
SECTION**

SHEET IDENTIFICATION:  
**S201**

1  
**ENTIRE SHEET  
REVISED FOR  
ADDENDUM #1**

## A



1  
S202

