INC. DATED MAY 6, 2023).

SOIL BEARING PRESSURE: 1500 PSF

FREE DRAINING BACKFILL MATERIAL FOR RETAINING

A CLEAN, FREE DRAINING, WELL GRADED GRANULAR MATERIAL CONFORMING TO ASTM D2487 GW OR SW WHOSE MAXIMUM PARTICLE SIZE DOES NOT EXCEED 3/4" AND WHOSE FINES CONTENT (MATERIAL PASSING THE NO. 200 SIEVE) DOES NOT EXCEED 5%,

WITH A MAXIMUM DUST RATIO

SEGMENTAL CONCRETE RETAINING WALL WITH REINFORCED EARTH

DESIGN CRITERIA:

UNIT WEIGHT OF SOIL = 120 PCF FRICTION ANGLE (ASSUMED): REINFORCED WALL = 34°, RETAINED BACKFILL = 30° COHESION = 0 PSF

INTERNAL STABILITY OF WALLS:

MINIMUM FACTOR OF SAFETY ON GEOGRID STRENGTH = 1.5 MINIMUM FACTOR OF SAFETY ON GEOGRID PULLOUT = 1.5 SOIL GEOGRID INTERACTION COEFFICIENT = 0.9 PERCENT COVERAGE OF GEOGRID = 1.0

EXTERNAL STABILITY:

MINIMUM FACTOR OF SAFETY AGAINST BASE SLIDING = 1.5 MINIMUM FACTOR OF SAFETY AGAINST OVERTURNING = 2.0

EXTERNAL LOADING:

LOAD CONDITION. HORIZONTAL BACKFILL, 240 PSF SURCHARGE REFER TO DESIGN TABLE FOR SPECIFIC WALL SECTIONS. HYDROSTATIC LOADING - NONE. REQUIRED BEARING PRESSURE. 2000 PSF

<u>MATERIALS</u>:

FACING UNITS SHALL BE KEYSTONE STANDARD SERIES III BLOCK UNITS OR APPROVED EQUAL. KEYSTONE FACING UNITS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, KEYSTONE RETAINING WALL SYSTEMS, INC., MINNEAPOLIS, MINNESOTA.

GEOGRID REINFORCING SHALL BE MIRAGRID 3XT MANUFACTURED BY TENCATE, HOUSTON, TEXAS.

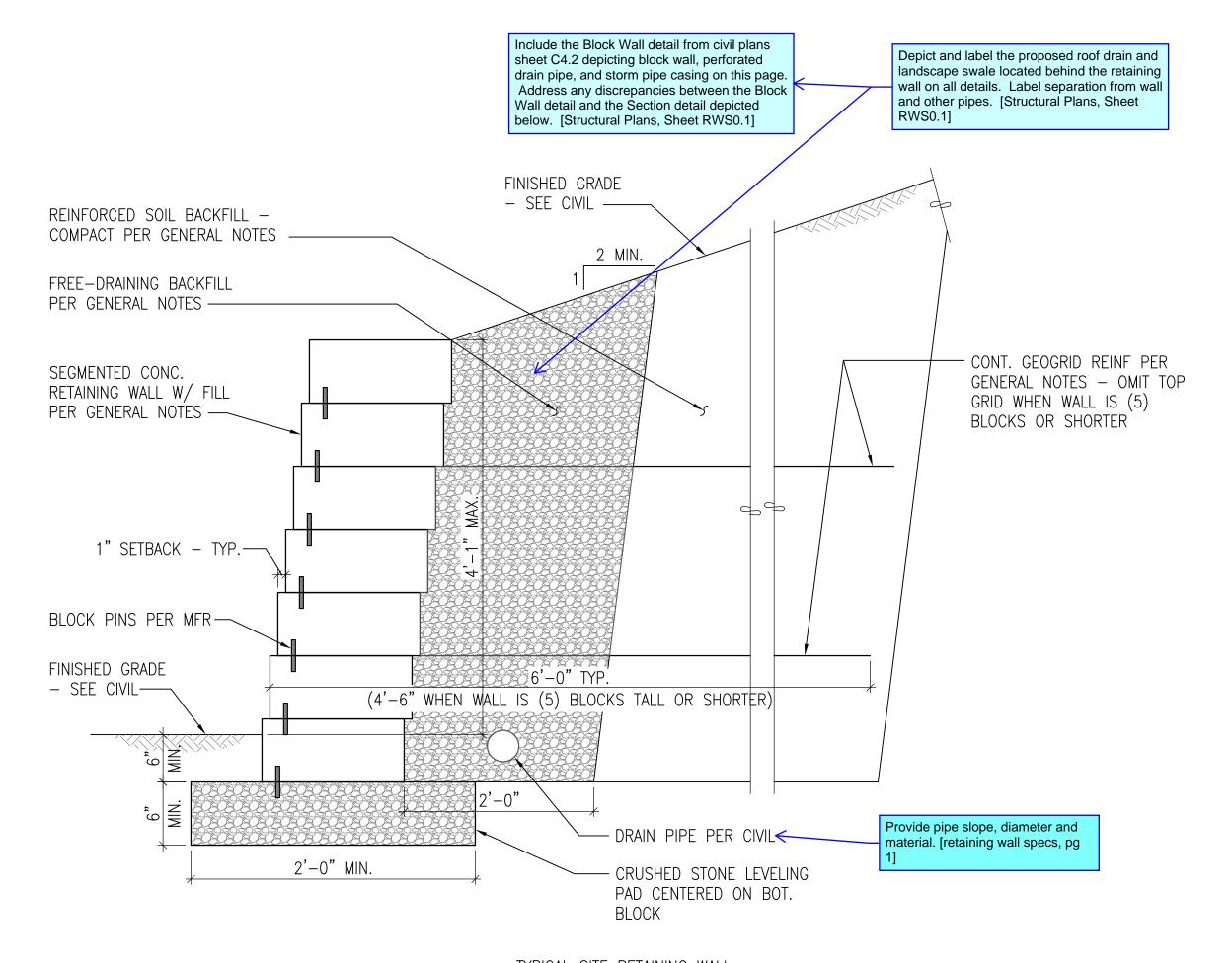
FILL FOR UNITS SHALL BE FREE DRAINING GRAVEL OR CRUSHED ROCK.

GEOGRID PLACEMENT:

GEOGRID SHALL BE PLACED AT THE LOCATION AND ELEVATIONS SHOWN ON THE WALL PROFILES. GEOGRID LENGTH SHALL BE AS LISTED FOR EACH RESPECTIVE WALL SECTION. REINFORCED FILL ZONE LENGTH IS AS MEASURED FROM THE FRONT FACE OF THE UNIT. GEOGRIDS SHALL BE ATTACHED FIRMLY BETWEEN THE KEYSTONE BLOCK SECTIONS OVER THE TWO FIBERGLASS CONNECTING PINS. PRIOR TO PLACING FILL, THE GEOGRID MATERIALS SHALL BE PULLED TIGHT TO REMOVE ANY SLACK IN THE GEOGRIDS AND TO REMOVE ANY SLACK AROUND CONNECTING PINS. FILL MATERIALS SHALL BE PLACED FROM THE BACK FACE OF THE BLOCK BACK TOWARDS THE FILL TO ENSURE FURTHER TENSIONING OF THE GEOGRID MATERIALS. NO CHANGES TO THE GEOGRID LAYOUT, INCLUDING, BUT NOT LIMITED TO, LENGTH, GEOGRID TYPE OR ELEVATION, SHALL BE MADE WITHOUT THE EXPLICIT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER. THE CONTRACTOR MAY USE LONGER GEOGRID LENGTHS THAN THE DESIGN SECTIONS REQUIRE FOR EASE OF CONSTRUCTION.

REINFORCED SOIL BACKFILL

BACKFILL SHALL BE GRADED AWAY FROM THE WALL FACE AND ROLLED AT THE END OF EACH WORK DAY TO PREVENT PONDING OF WATER ON SURFACE OF THE REINFORCED SOIL MASS. BACKFILL MUST BE COMPACTED IN 8 INCH LIFTS TO 95 PERCENT OF THE MAXIMUM DRY DENSITY BASED ON ASTM D1557.

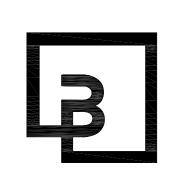




PRRWF20231581 CLIENT







Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO.	DATE	REVISION DESCRIPTION
-	10/04/23	BID SET
1		
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3		
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6		
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8		
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10		
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SEAL:		



DEVELOPMENT INFORMATION:

ARCO NTI

3400 am/pm **FUEL CANOPY w/ 6 MPD's**

SITE ADDRESS:

1402 S MERIDIAN PUYALLUP, WA 98371

FACILITY #7184

	_	21730
VERSION:		PROJECT NO:
DRAWN BY:	SAA	ALLIANCE PM:
CHECKED BY:	SJW	BP REPM:
DESIGNED BY:	SJW	ALLIANCE Z&DM:

DRAWING TITLE:

GENERAL NOTES AND DETAILS

RWS0.1