

Install permanent erosion control per Geotech recommendation

**Note:**  
 1. For temporary erosion control they would recommend silt fencing with straw wattles placed between the rockery and the new wall.  
 2. The silt silt fencing and straw wattles should also extend around the north and south perimeters of the work area.  
 3. All stockpiled soils should be covered with plastic sheeting.

**Construction Sequence Notes:**

1. Remove unpermitted retaining wall and fill from the site or stockpile for later use as landscaping fill.
2. Prepare the subgrade and obtain NGA approval before proceeding.
3. Remove the section of the retaining wall within the 10-ft storm drain easement and replace it with a 1:1 slope with schematic displayed below. Install geogrid reinforcement in this section for soil stabilization and compliance with easement requirements.
4. Construct the new retaining wall per geotechnical design and recommendations.
5. NGA to inspect subgrade preparation, retaining wall construction, and geogrid placement.
6. Install railing on the 1:1 slope, ensuring geogrid is wrapped around the footings without cutting it.
7. Install permanent erosion control measures per NGA recommendations.

**Note:**  
 Site improvement activity on or adjacent to reinforced fill should not result in cutting or disturbing of geogrid

**PARCEL #: 545130-0005**

**OWNER INFORMATION:**

SHARMA ABHISHEK and SHWETA  
 7905 W MERCER WAY, MERCER ISLAND, WA 98040

**LEGAL DESCRIPTION:**

MERCER ISLAND PARK ADD LOT B MERCER ISLAND SHORT PLAT NO 82-08-16 REC NO 8308179001 SD SHORT PLAT DAF - LOT 1 & POR OF LOT 2 LY S OF LN AKA LN A & POR OF LOT 13 W OF W MERCER WAY & S OF SD LN A BEG AT MOST SLY COR OF SD LOT 13 TH S 89-22-20 W 318.42 FT TH N 37-21-40 W 89.33 FT TH N 33-55-40 W 85.50 FT TO A NXN & TPOB OF SD LN A TH N 89-22-20 E ALG SD LN A TO NXN WITH WLY R/W LN OF SD W MERCER WAY Plat Block: Plat Lot: 1-2 & 13

**ZONING AND SITE DATA**

ZONE: R-15

SETBACKS:  
 FRONT: 20'  
 SIDES: 15' (sum)  
 BACK: 25'

SITE / LOT SF BASED ON SURVEY  
 19,791 SQFT, (.45 ACRES)

ADDRESS:  
 7905 W MERCER WAY, MERCER ISLAND, WA 98040

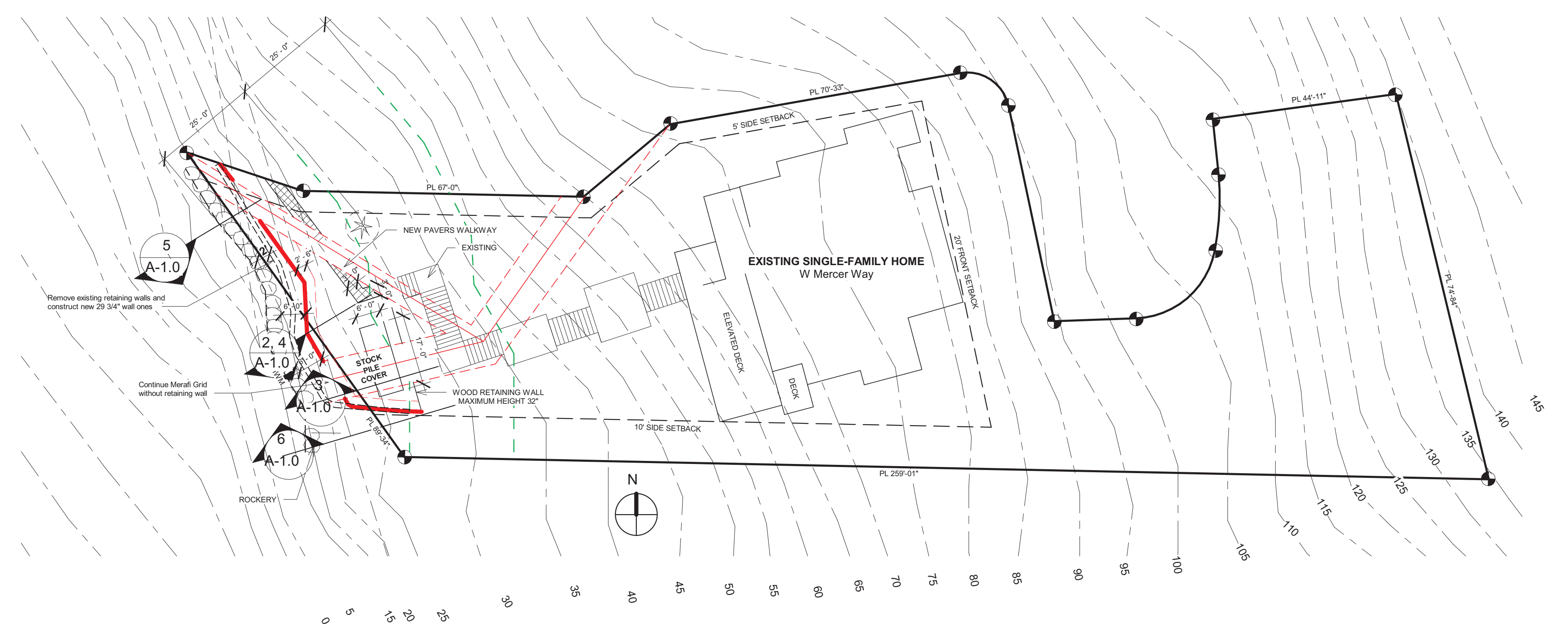
**LOT COVERAGE CALCULATIONS**

|  |        |             |
|--|--------|-------------|
| A. Gross Lot Area  | 19,791 | Square Feet |
| B. Net Lot Area  | 19,791 | Square Feet |
| C. Allowed Lot Coverage Area   | 5940   | Square Feet |
| D. Allowed Lot Coverage  | 30     | % of Lot    |
| E. Existing Lot Coverage:  |        |             |
| 1. Main Structure Roof Area  | 2170   | Square Feet |
| 2. Accessory Building Roof Area  | 860    | Square Feet |
| 3. Vehicular Use (driveway, paved access easements [portion used by the lot for access], parking | 1800   | Square Feet |
| 4. Covered Patios and Covered Decks  | 500    | Square Feet |
| 5. Total Existing Lot Coverage Area (E1+E2+E3+E4)  | 5330   | Square Feet |

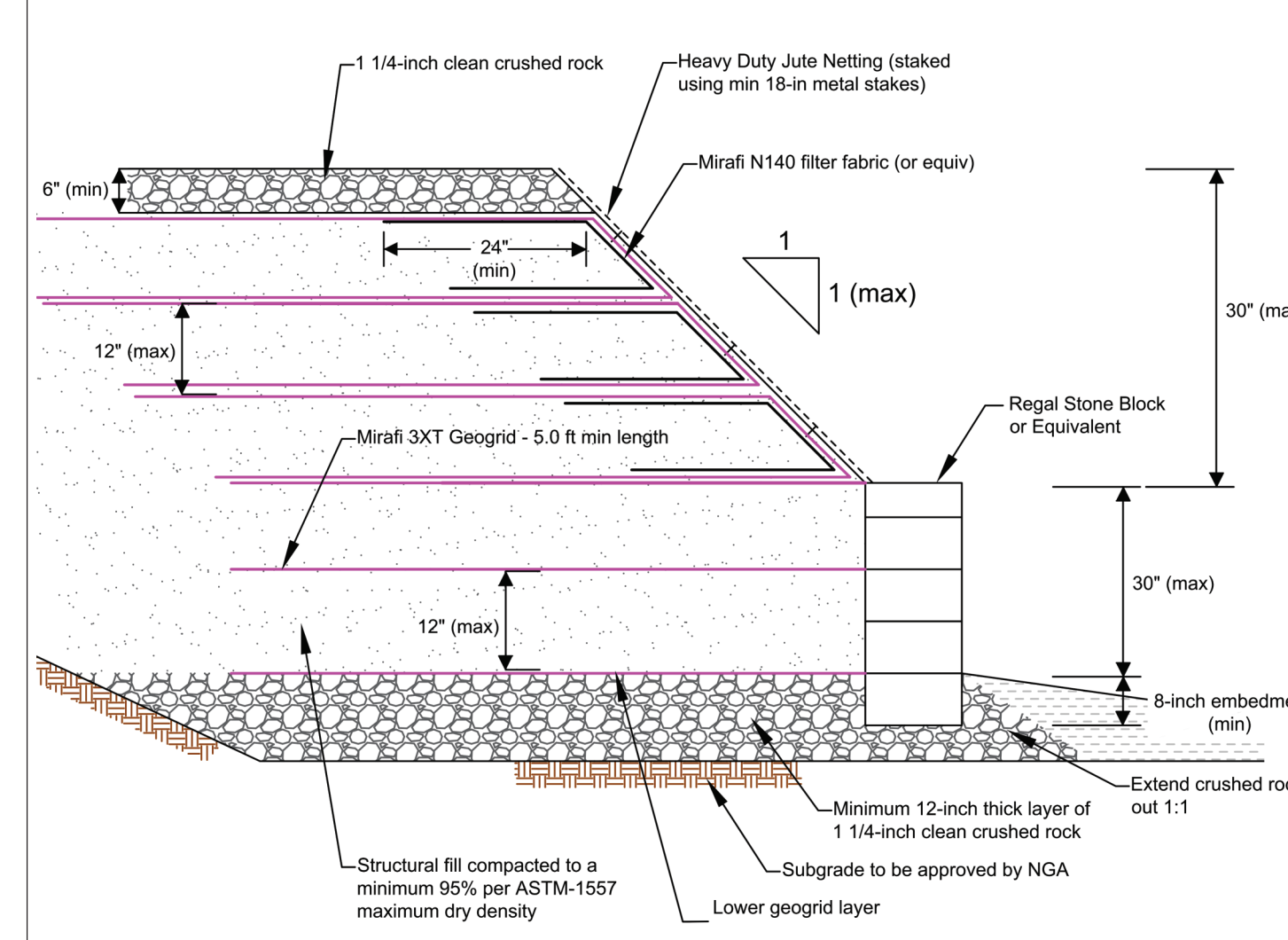
|                                     |  |
|-------------------------------------|--|
| <b>0-25 = 215 s.f. impervious</b>   | <b>25-50 = 440 s.f.</b>                      |
| 1. New Retaining Wall 80 s.f.       | 1. Wood retaining wall 12 s.f.               |
| 2. Pavers Walkway 98 s.f.           | 2. New pavers walkway 20 s.f.                |
| <b>89' x 25' x 10% = 222.5 s.f.</b> | 3. Existing Deck stairs and landing 308 s.f. |
|                                     | <b>89' x 25' x 30% = 667.5 s.f.</b>          |

**HARDSCAPE CALCULATIONS**

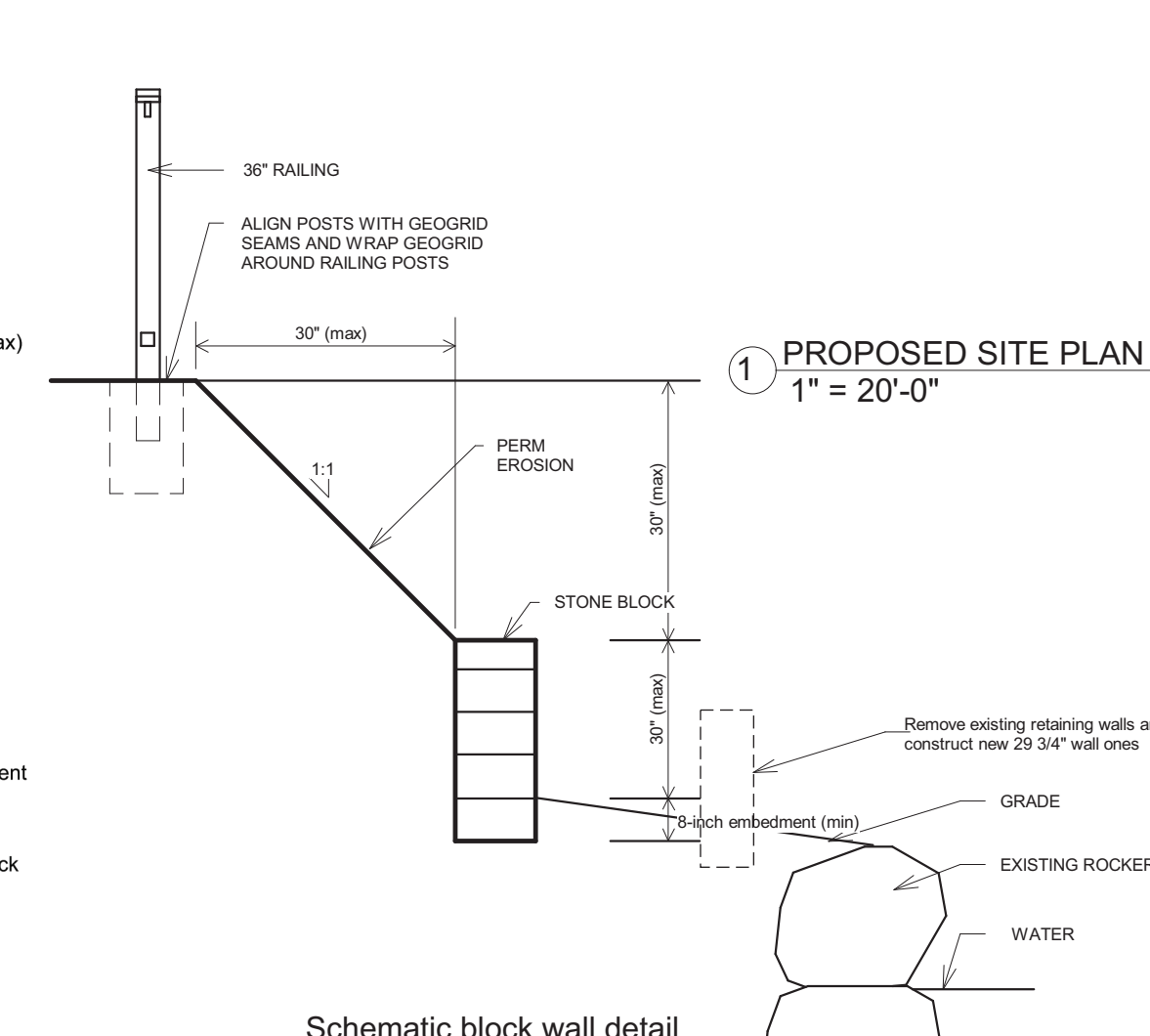
|  |        |             |
|--|--------|-------------|
| A. Gross Lot Area                                    | 19,791 | Square Feet |
| B. Net Lot Area                                      | 19,791 | Square Feet |
| C. Area Borrowed from Lot Coverage                   | 5940   | Square Feet |
| D. Allowed Hardscape Area = 9% of lot area + C       | 39     | % of Lot    |
| E. Allowed Hardscape Area                            | 7722   | Square Feet |
| F. Total Existing Hardscape Area:                    |        |             |
| 1. Uncovered Decks                                   | 355    | Square Feet |
| 2. Uncovered Patios                                  |        | Square Feet |
| 3. Walkways  | 425    | Square Feet |
| 4. Stairs  | 395    | Square Feet |
| 5. Rockeries and Retaining Walls                     | 55     | Square Feet |
| 6. Other   |        | Square Feet |
| 7. Total Existing Hardscape Area (F1+F2+F3+F4+F5+F6) | 1435   | Square Feet |
| G. (Total Hardscape Area Removed)                    | 0      | Square Feet |
| H. Total New Hardscape Area:                         |        |             |
| 1. Uncovered Decks                                   |        | Square Feet |
| 2. Uncovered Patios                                  |        | Square Feet |
| 3. Walkways  | 98     | Square Feet |
| 4. Stairs  | 0      | Square Feet |
| 5. Rockeries and Retaining Walls                     | 80     | Square Feet |
| 6. Other   | n/a    | Square Feet |
| 7. Total New Hardscape Area (H1+H2+H3+H4+H5+H6)      | 233    | Square Feet |
| I. Total Project Hardscape Area = (F7 - G) + H7      | 1668   | Square Feet |
| J. Total Project Hardscape Area = (I/B)x100          | 8.5    | % of Lot    |



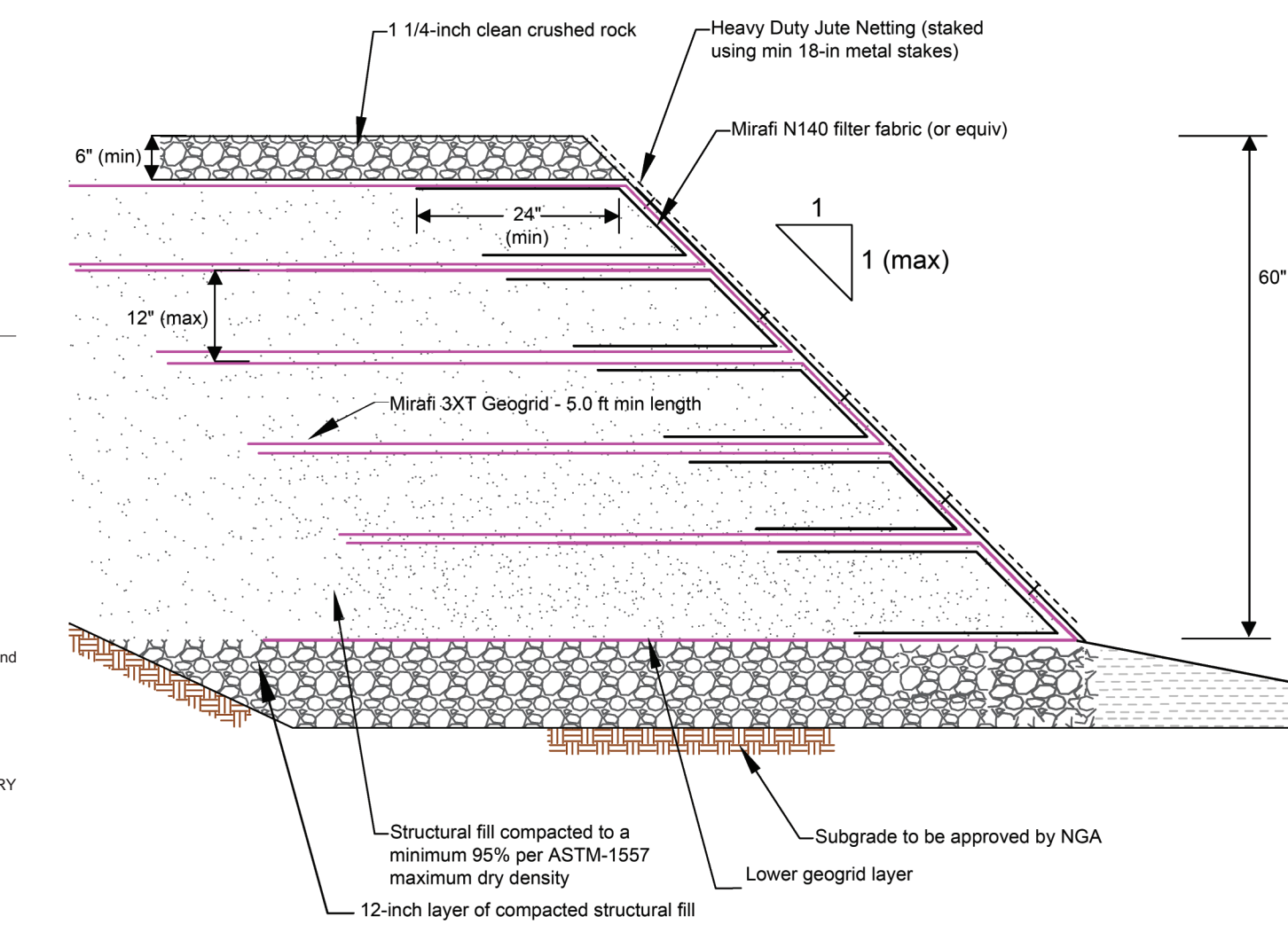
**NOTE**  
 REMOVE EXISTING RETAINING WALLS AND CONSTRUCT NEW ONES.



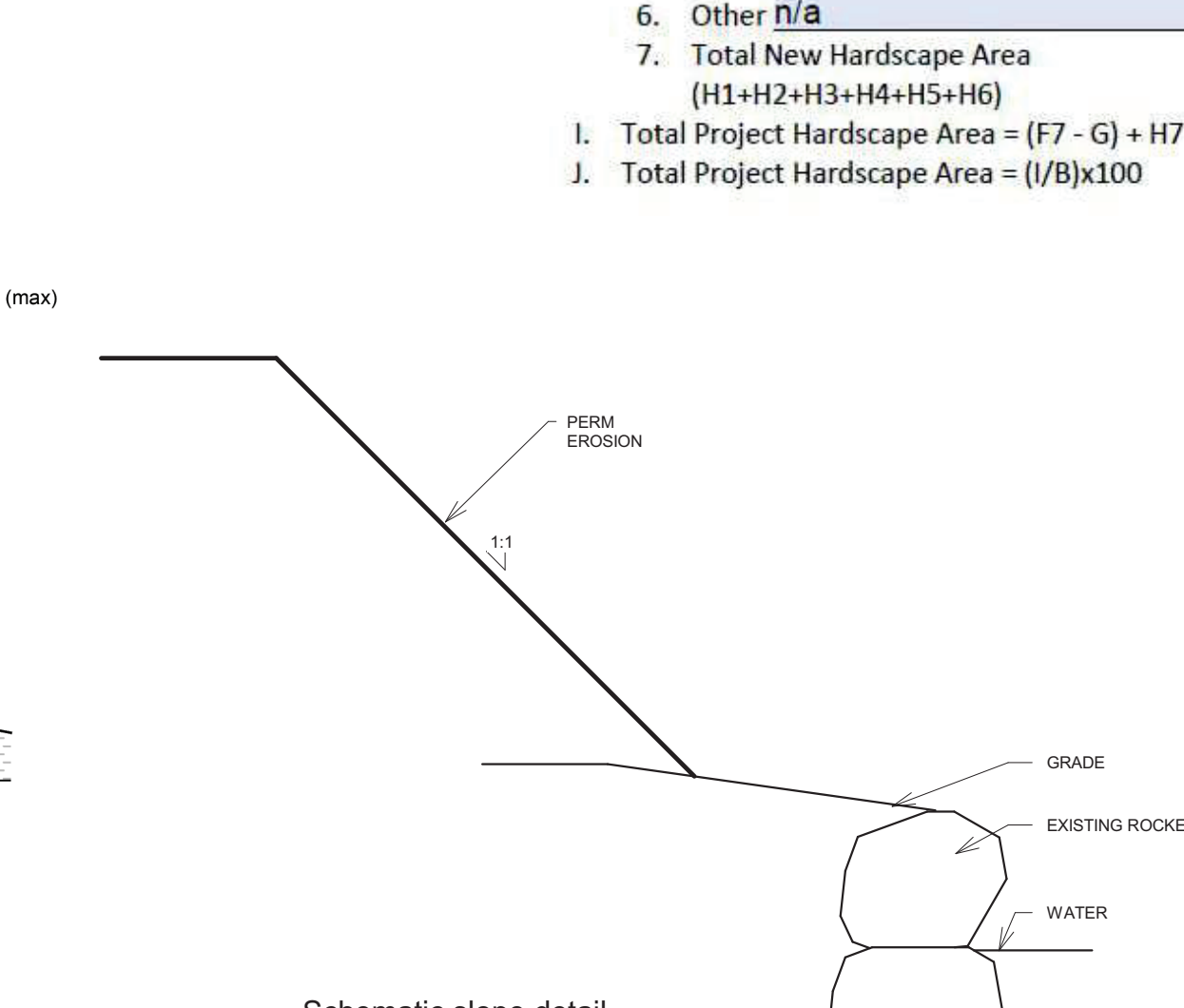
2 Schematic block wall detail outside of the easements  
 1/2" = 1'-0"



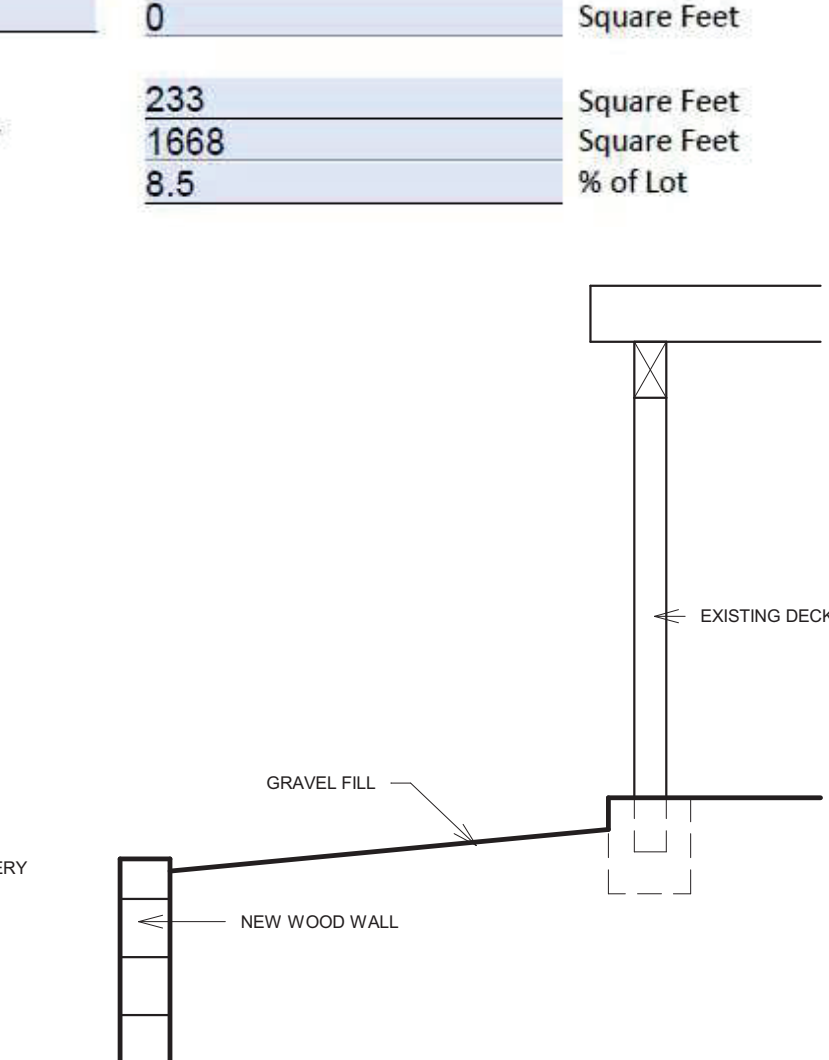
3 Schematic block wall detail outside of the easements  
 3/8" = 1'-0"



4 Schematic slope detail within the easements  
 1/2" = 1'-0"



5 Schematic slope detail within the easements  
 3/8" = 1'-0"



6 DETAIL  
 1/2" = 1'-0"

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| No. | Description | Date |
|-----|-------------|------|
|     |             |      |
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|     |             |      |
|     |             |      |

Wise Choice Construction  
 Retaining Wall  
 7905 W Mercer Way, Mercer Island, WA 98040

Project number: A23-1206  
 Date: 04.09.2025  
 Drawn by: Alexander Litvinov  
 Checked by: -

PROPOSED SITE PLAN  
**A-1.0**  
 Scale: As indicated

PARCEL #: 545130-0005

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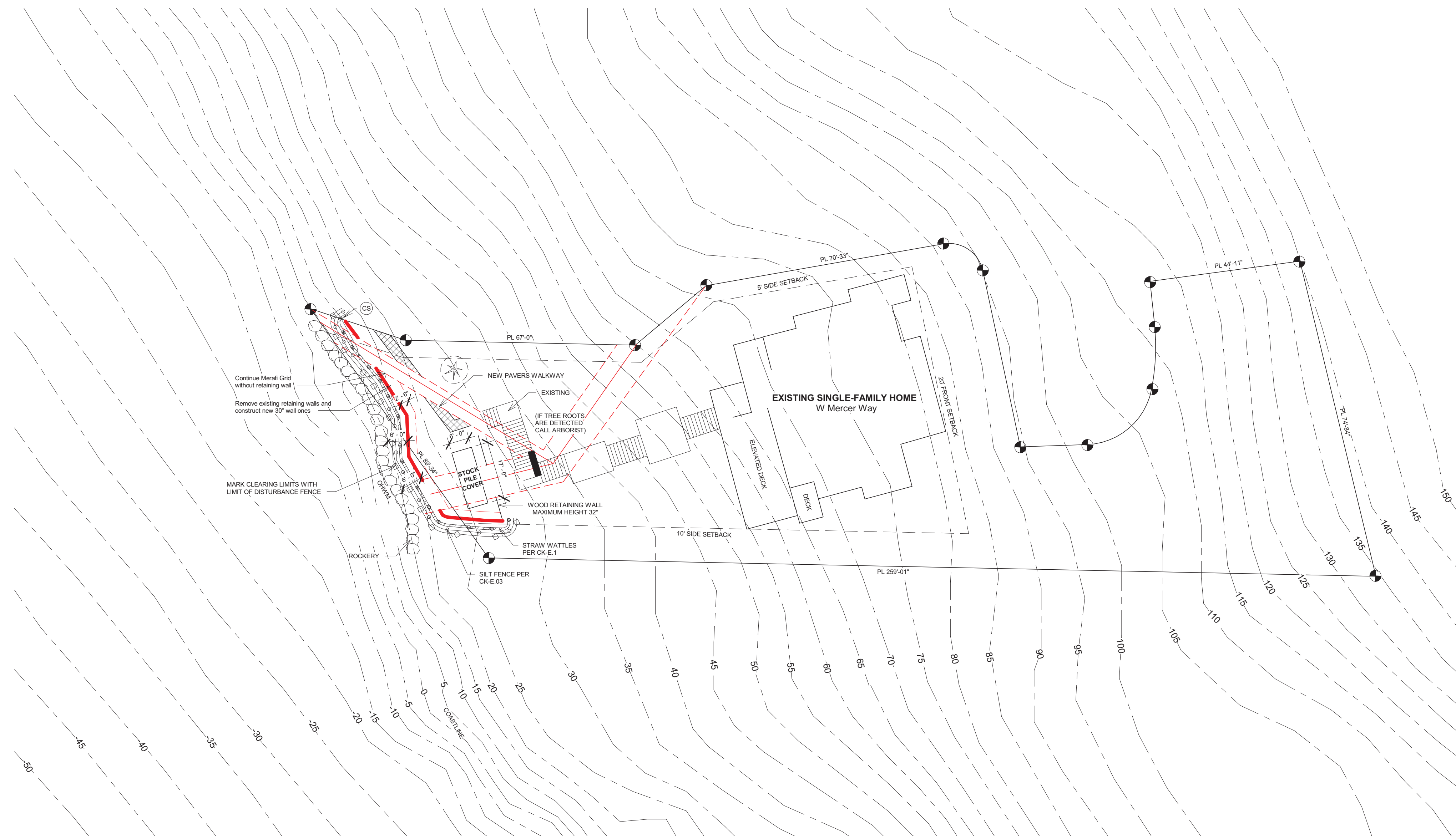
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1 CSWPPP and TESC PLAN  
1" = 20'-0"

TEMPORARY EROSION and SEDIMENT CONTROL

**TESC AND SMALL PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BEST MANAGEMENT PRACTICES.**

TO PRESERVE NATIVE VEGETATION AND TO CLEARLY SHOW THE LIMITS OF DISTURBANCE, THE PERIMETER OF THE AREA TO BE CLEARED SHALL BE MARKED PRIOR TO CLEARING OPERATION WITH VISIBLE FLAGGING, ORANGE PLASTIC BARRIER FENCING AND/OR ORANGE SILT FENCING AS SHOWN ON THE SWPPP. VEHICLES WILL ONLY BE ALLOWED IN THE AREAS TO BE GRADED, SO NO COMPACTION OF THE UNDEVELOPED AREAS WILL OCCUR.

NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 2 DAYS FROM OCTOBER 1 TO APRIL 30. ONCE THE DISTURBED LANDSCAPE AREAS ARE GRADED, THE GRASS AREAS WILL BE SEEDED OR SODDED. ALL STOCKPILES WILL BE COVERED WITH PLASTIC OR BURLAP IF LEFT UNWORKED.

A STRAW WATTLE SHALL BE PLACED AT THE END OF SWALES TO PREVENT EROSION AT THE OUTLET OF THE SWALE.

BEST MANAGEMENT PRACTICES (BMP) SHALL BE INSPECTED AND MAINTAINED DURING CONSTRUCTION AND REMOVED WITHIN 30 DAYS AFTER THE COUNTY INSPECTOR OR ENGINEER DETERMINES THAT THE SITE IS STABILIZED, PROVIDED THAT THEY MAY BE REMOVED WHEN THEY ARE NO LONGER NEEDED.

THE SWPPP WILL BE IMPLEMENTED AT ALL TIMES. THE APPLICABLE EROSION CONTROL BMP'S WILL BE IMPLEMENTED IN THE FOLLOWING SEQUENCE:

- MARK CLEARING LIMITS.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL PROTECTION FOR EXISTING DRAINAGE SYSTEMS AND PERMANENT DRAIN INLETS.
- ESTABLISH STAGING AREAS FOR STORAGE AND HANDLING POLLUTED MATERIAL AND BMP'S.
- INSTALL SEDIMENT CONTROL BMP'S.
- GRADE AND INSTALL STABILIZATION MEASURES FOR DISTURBED AREAS.
- MAINTAIN BMP'S UNTIL SITE STABILIZATION, AT WHICH TIME THEY MAY BE REMOVED.

ON-SITE STORMWATER MANAGEMENT BMP'S USED FOR RUNOFF FROM ROOFS AND OTHER HARD SURFACES INCLUDE: FULL DISPERSION, ROOF DOWNSPOUT FULL INFILTRATION OR DISPERSION SYSTEMS, PERFORATED STUBOUT CONNECTIONS, RAIN GARDENS, BIORETENTION SYSTEMS, PERMEABLE PAVEMENT, SHEETFLOW DISPERSION, AND CONCENTRATED FLOW DISPERSION. THE AREAS ON THE SITE TO BE USED FOR THESE BMP'S SHALL BE PROTECTED FROM SILTATION AND COMPACTION DURING CONSTRUCTION BY SEQUENCING THE CONSTRUCTION IN A FASHION TO INSTALL THESE BMP'S AT THE LATTER PART OF THE CONSTRUCTION GRADING OPERATIONS, BY EXCLUDING EQUIPMENT FROM THE BMP'S AND THE ASSOCIATED AREAS, AND BY USING THE EROSION AND SEDIMENTATION CONTROL BMP'S.

| No. | Description | Date |
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Retaining Wall

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| Project number | A23-1206           |
| Date           | 04.09.2025         |
| Drawn by       | Alexander Litvinov |
| Checked by     | -                  |

CSWPPP and TESC PLAN

A-1.1

Scale 1" = 20'-0"