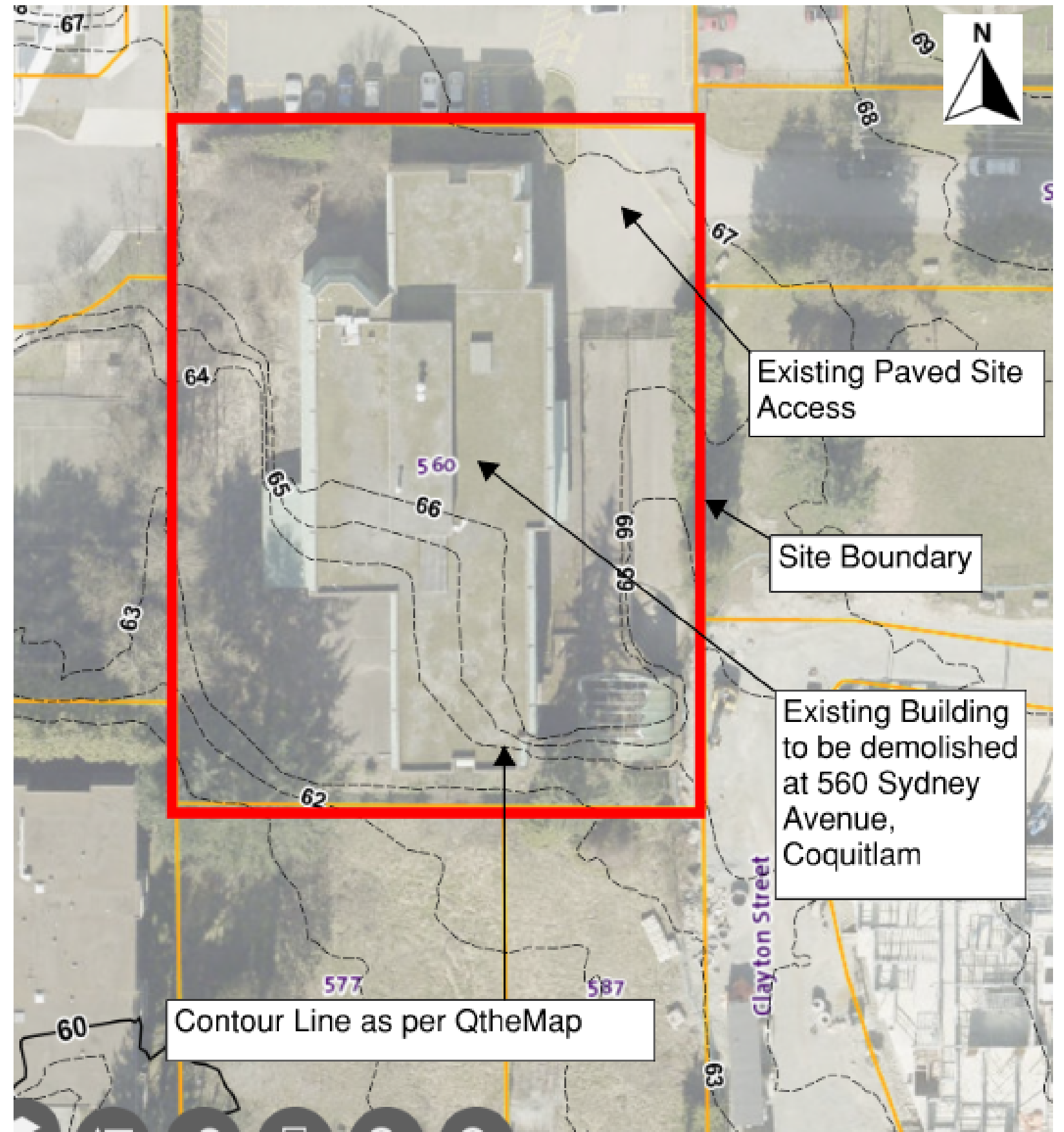




Source: QtheMap
 (<https://coquitlam.maps.arcgis.com/apps/webappviewer/index.html?id=2d58aee859754918ae54d30da4bbba49>)



REV.	DATE	DESCRIPTION
1	November 2024	Issue for Client's Review

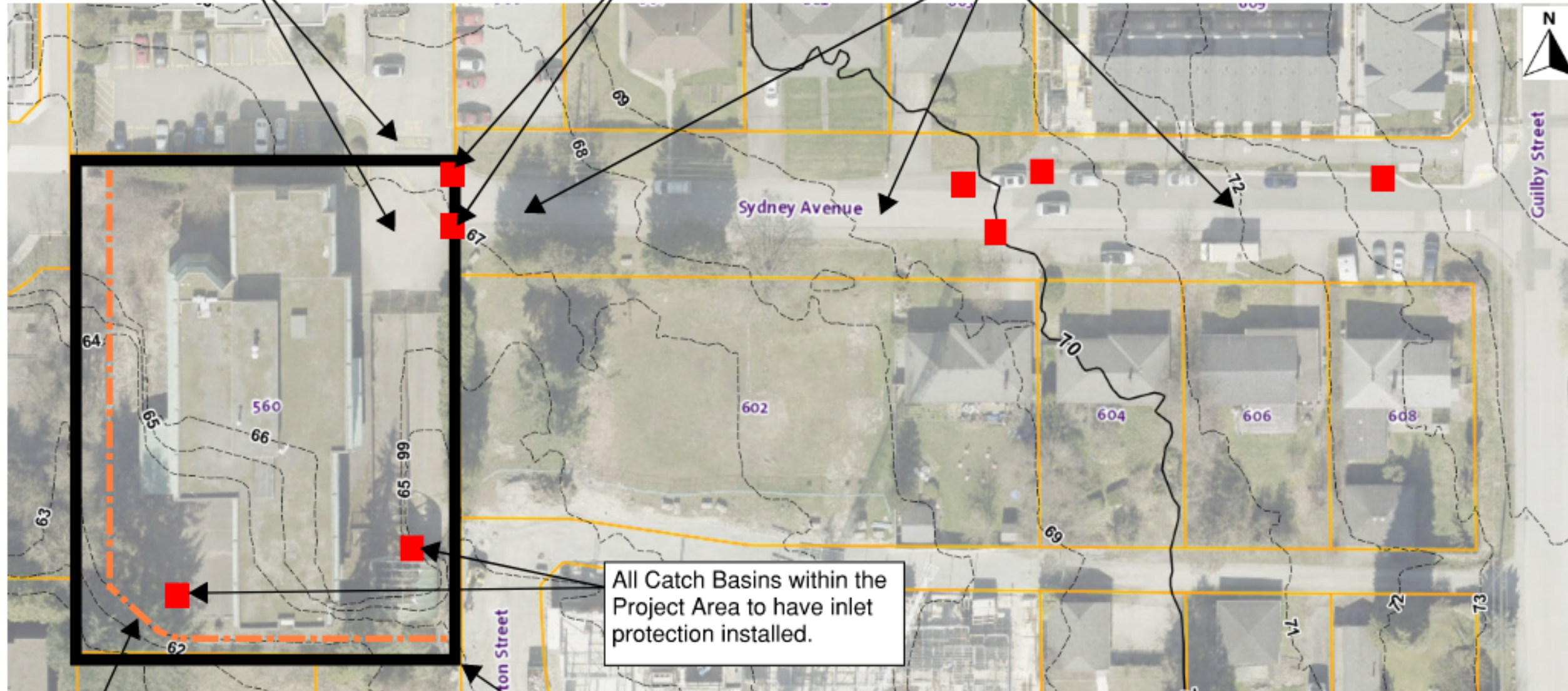
Figure Title: Erosion and Sediment Control Plan - Site Location and the Existing Landscape
 Project Title: Building Demolition
 Address: 560 Sydney Avenue, Coquitlam, BC
 Client Name: City of Coquitlam

DRAWN BY:	PROJECT No.:
DRAFTED BY: BH	2400754
CHECKED BY: DH and BH	Figure No.:
DATE: November 2024	1
SCALE: NA	

Street sweeping (See Detail 2) will be conducted as frequent as needed; Do Not Flush Loose Dirt Into Catch Basin.

All Catch Basins within the Project Area to have inlet protection installed.

Street sweeping (See Detail 2) will be conducted as frequent as needed; Do Not Flush Loose Dirt Into Catch Basin.



Sediment fencing be installed along the edge of the existing paved area.

All Catch Basins within the Project Area to have inlet protection installed.

Site Boundary

Legend

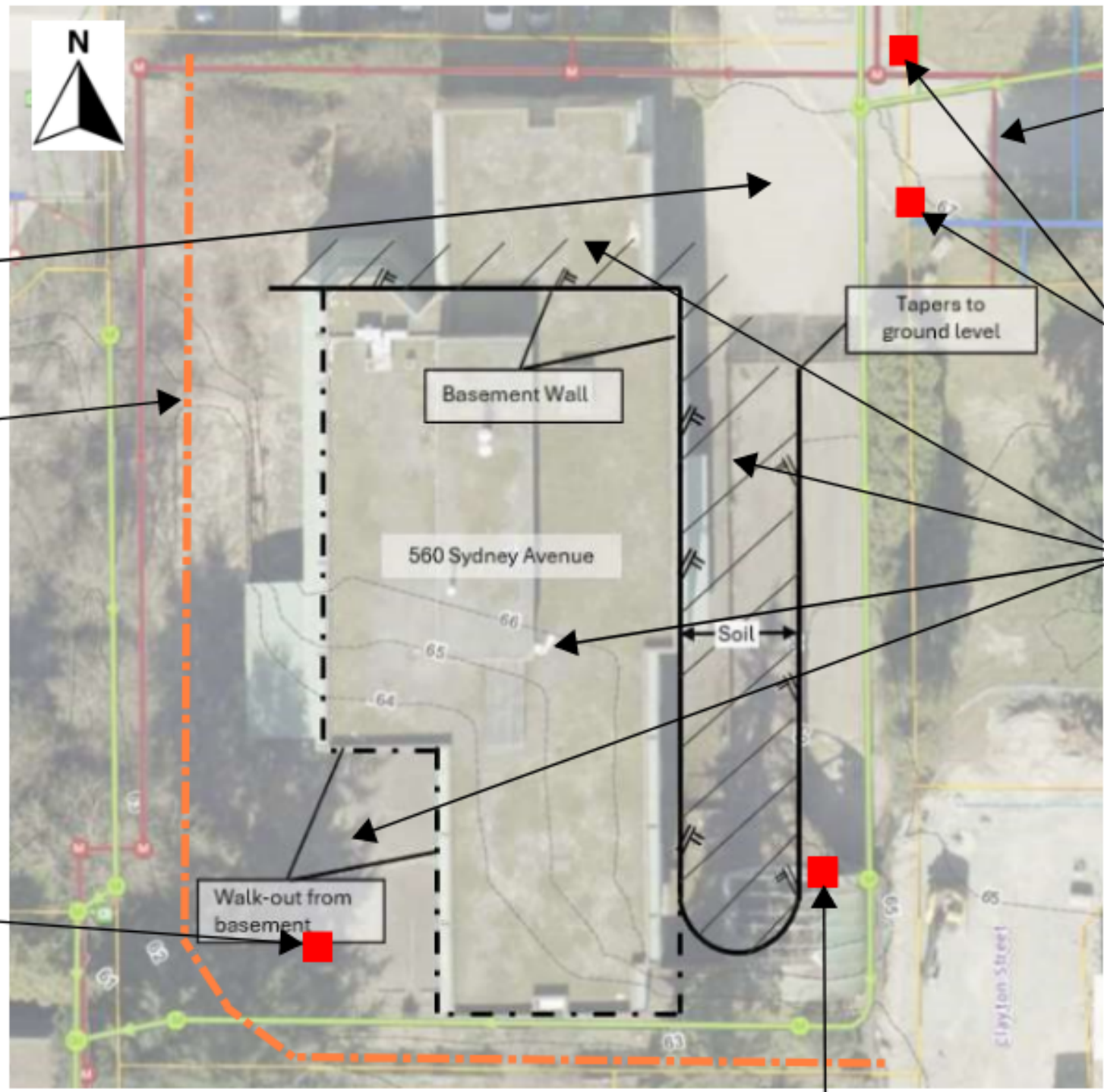
- Catch Basin Inlet Protection (See Detail 1)
- - - Sediment fencing (See Detail 3)

General Erosion and Sediment Control Notes:

1. Vehicle traffic is to be restricted to stabilized areas.
2. All catch basins adjacent to site access points will have inlet control measures installed.
3. Prior to the demolition, sediment fencing shall be installed along the perimeter of the site and/or active work areas where exposed soils are anticipated.
4. Street maintenance will include street sweeping. Do not flush sediment or debris into catch basins. Street sweeping will be conducted as frequent as needed to prevent and mitigate sediment tracking.
5. If vegetation disturbance is required. Limit of clearing and grubbing will be delineated by the contractor. Clearing and grubbing will be limited to only the areas directly necessary for mobilization and construction activities.
6. On-site bare soil will be covered with polyethylene sheeting, and surrounded by sediment fencing as necessary.

Source: QtheMap (<https://coquitlam.maps.arcgis.com/apps/webappviewer/index.html?id=2d58aee859754918ae54d30da4bbba49>)

	1	November 2024	Issue for Client's Review	Figure Title: Erosion and Sediment Control Plan Layout (Pre-Demolition) Project Title: Building Demolition Address: 560 Sydney Avenue, Coquitlam, BC Client Name: City of Coquitlam	DRAWN BY:	PROJECT No.:	
						DRAFTED BY: BH	2400754
						CHECKED BY: DH and BH	Figure No.:
	REV.	DATE	DESCRIPTION			DATE: November 2024	2
					SCALE: NA		



Street sweeping (See Detail 2) will be conducted as frequent as needed; Do Not Flush Loose Dirt Into Catch Basin.

Sediment fencing be installed along the edge of the existing paved area.

All Catch Basins within the Project Area to have inlet protection installed.

Street sweeping (See Detail 2) will be conducted as frequent as needed; Do Not Flush Loose Dirt Into Catch Basin.

All Catch Basins within the Project Area to have inlet protection installed.

Apply temporary surface cover measures (see Detail 4) to protect on-site bare soil from the precipitation events during the demolition.

Soil disturbance shall be conducted in response to the weather forecast to minimize area of soil exposure during precipitation events.

All Catch Basins within the Project Area to have inlet protection installed.

Legend

- Catch Basin Inlet Protection (See Detail 1)
- - - Sediment fencing (See Detail 3)

General Erosion and Sediment Control Notes:

1. Vehicle traffic is to be restricted to stabilized areas.
2. All catch basins adjacent to site access points will have inlet control measures installed.
3. Prior to the demolition, sediment fencing shall be installed along the perimeter of the site and/or active work areas where exposed soils are anticipated.
4. Street maintenance will include street sweeping. Do not flush sediment or debris into catch basins. Street sweeping will be conducted as frequent as needed to prevent and mitigate sediment tracking.
5. If vegetation disturbance is required. Limit of clearing and grubbing will be delineated by the contractor. Clearing and grubbing will be limited to only the areas directly necessary for mobilization and construction activities.
6. On-site bare soil will be covered with polyethylene sheeting, and surrounded by sediment fencing as necessary.

Reference drawings obtained from Geotechnical Comment: 560 Sydney Avenue, Coquitlam (19 November 2024)



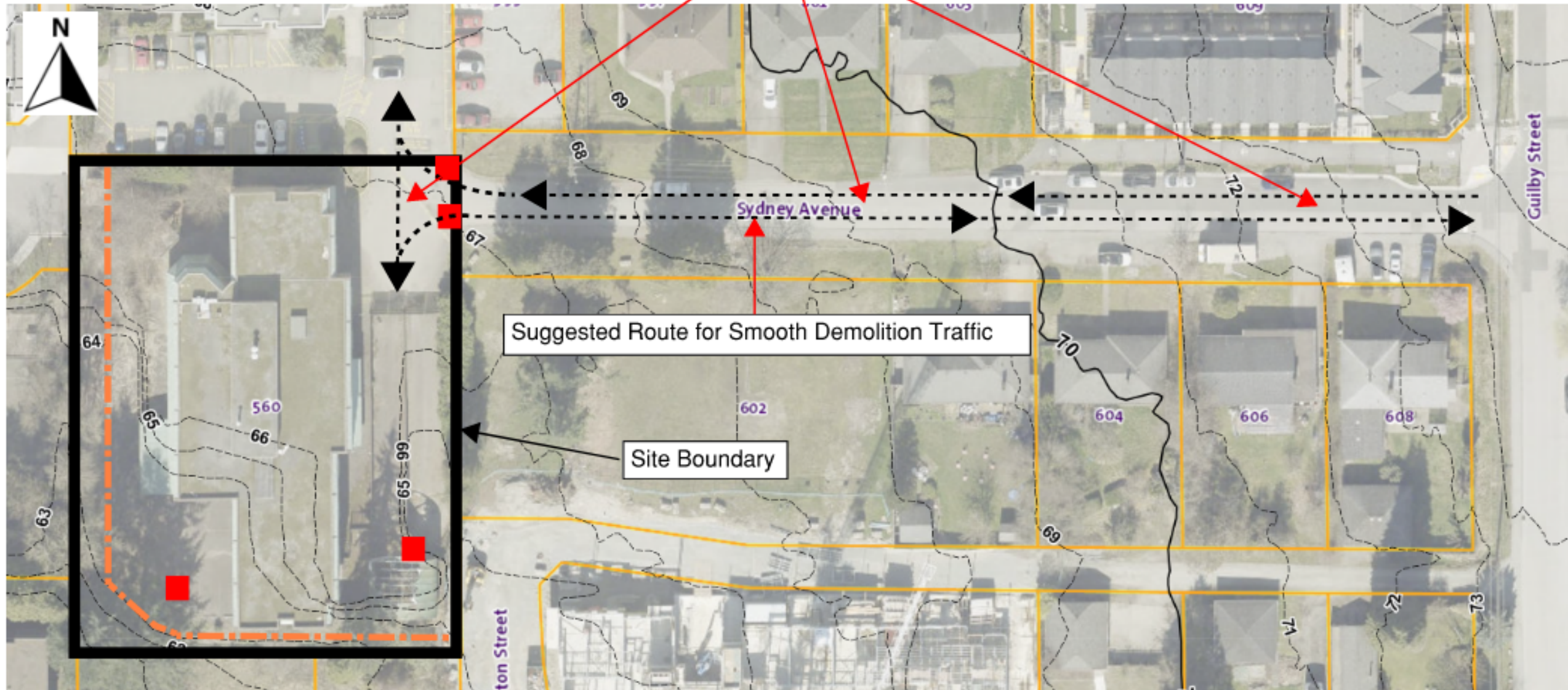
REV.	DATE	DESCRIPTION
1	November 2024	Issue for Client's Review

Figure Title: Erosion and Sediment Control Plan Layout (During Demolition)
 Project Title: Building Demolition
 Address: 560 Sydney Avenue, Coquitlam, BC
 Client Name: City of Coquitlam

DRAWN BY:
 DRAFTED BY: BH
 CHECKED BY: DH and BH
 DATE: November 2024
 SCALE: NA

PROJECT No.:
 2400754
 Figure No.:
 3

Street sweeping (See Detail 2) will be conducted as frequent as needed; Do Not Flush Loose Dirt Into Catch Basin.



Legend

- Catch Basin Inlet Protection (See Detail 1)
- - - Sediment fencing (See Detail 3)

- General Erosion and Sediment Control Notes:**
1. Vehicle traffic is to be restricted to stabilized areas.
 2. All catch basins adjacent to site access points will have inlet control measures installed.
 3. Prior to the demolition, sediment fencing shall be installed along the perimeter of the site and/or active work areas where exposed soils are anticipated.
 4. Street maintenance will include street sweeping. Do not flush sediment or debris into catch basins. Street sweeping will be conducted as frequent as needed to prevent and mitigate sediment tracking.
 5. If vegetation disturbance is required. Limit of clearing and grubbing will be delineated by the contractor. Clearing and grubbing will be limited to only the areas directly necessary for mobilization and construction activities.
 6. On-site bare soil will be covered with polyethylene sheeting, and surrounded by sediment fencing as necessary.

Source: QtheMap (<https://coquitlam.maps.arcgis.com/apps/webappviewer/index.html?id=2d58aee859754918ae54d30da4bbba49>)



REV.	DATE	DESCRIPTION
1	November 2024	Issue for Client's Review

Figure Title: Suggested Route for Smooth Demolition Traffic (To Be Revised As Required)
 Project Title: Building Demolition
 Address: 560 Sydney Avenue, Coquitlam, BC
 Client Name: City of Coquitlam

DRAWN BY:	PROJECT No.:
DRAFTED BY: BH	2400754
CHECKED BY: DH and BH	Figure No.:
DATE: November 2024	4
SCALE: NA	

Top of Slope as per Geotechnical Comment

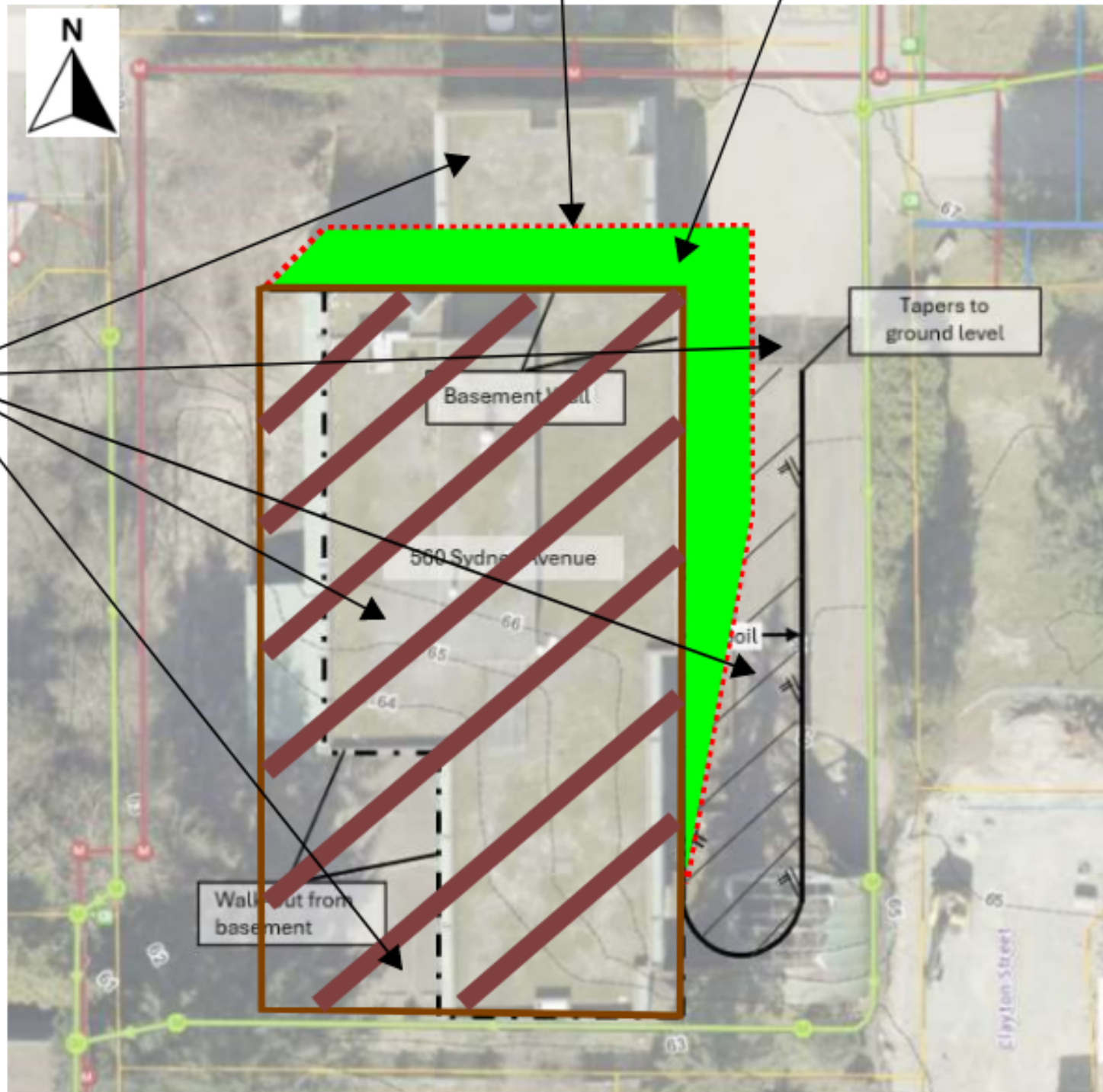
On-site bare soil along the slope shall be hydroseeded immediately following the completion of demolition.

Legend

Area to be hydroseeded (See Appendix A)

- General Erosion and Sediment Control Notes:
1. Vehicle traffic is to be restricted to stabilized areas.
 2. All catch basins adjacent to site access points will have inlet control measures installed.
 3. Prior to the demolition, sediment fencing shall be installed along the perimeter of the site and/or active work areas where exposed soils are anticipated.
 4. Street maintenance will include street sweeping. Do not flush sediment or debris into catch basins. Street sweeping will be conducted as frequent as needed to prevent and mitigate sediment tracking.
 5. If vegetation disturbance is required. Limit of clearing and grubbing will be delineated by the contractor. Clearing and grubbing will be limited to only the areas directly necessary for mobilization and construction activities.
 6. On-site bare soil will be covered with polyethylene sheeting, and surrounded by sediment fencing as necessary.

To provide on-site disturbed area with long term surface cover, place 150 mm of crushed gravel road base compacted to at least 95% as per the Geotechnical Comment.



Reference drawings obtained from Geotechnical Comment: 560 Sydney Avenue, Coquitlam (19 November 2024)



1	November 2024	Issue for Client's Review
REV.	DATE	DESCRIPTION

Figure Title: Erosion and Sediment Control Plan Layout (Post Demolition)
 Project Title: Building Demolition
 Address: 560 Sydney Avenue, Coquitlam, BC
 Client Name: City of Coquitlam

DRAWN BY:	PROJECT No.:
DRAFTED BY: BH	2400754
CHECKED BY: DH and BH	Figure No.:
DATE: November 2024	5
SCALE: NA	

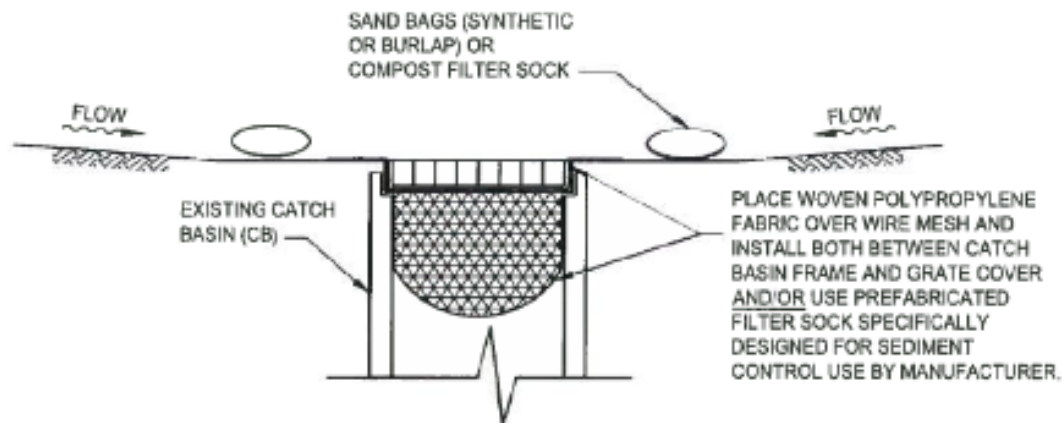


REFERENCE:
CBI PROTECTION
DONUT (200mm)

REFERENCE:
NILEX DANDY BAG
BURNABY, BC

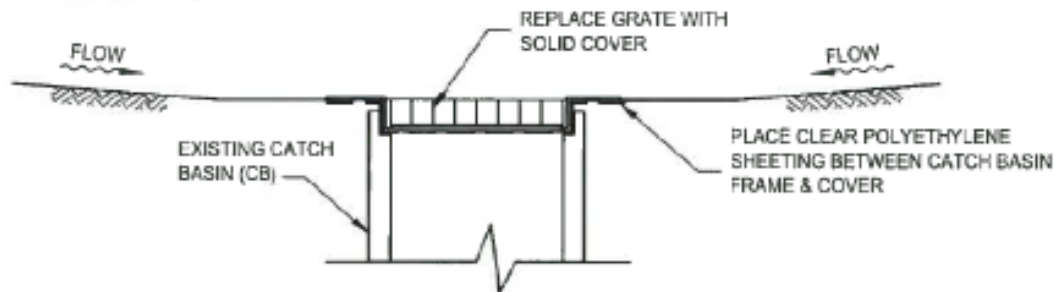
PROPERTY	Nominal Roll Values*
GRAB TENSILE	1.52-2.83 kN
GRAB ELONGATION	24-50 %
MULLEN BURST	3100 kPa
PUNCTURE	0.47 kN
TRAPEZOIDAL TEAR	0.51-0.33 kN
UV RESISTANCE	90 % at 500 hr
ACS	0.425 mm
PERMEABILITY	1.2 sec
FLOW RATE	7750 L/min

* FILTER FABRIC TO MATCH THE FOLLOWING NOMINAL SPECIFICATIONS OR BE AN APPROVED EQUIVALENT SUPPLIED SPECIFICALLY BY THE MANUFACTURER AS "CATCH BASIN FILTER SOCK"



DETAIL 1A: CATCH BASIN DETAIL (TYP.)

SCALE NTS



DETAIL 1B: BLOCKED OFF CATCH BASIN

DETAIL 1: INLET CONTROL



DETAIL A: IN THE EVENT THAT SEDIMENT ACCUMULATION DOES OCCUR ON A ROAD, THE ACCUMULATED MATERIAL WILL BE SWEEPED AND/OR SHOVELED FROM THE ROAD, NOT FLUSHED FROM THE ROAD SURFACE INTO DITCHES OR THE STORM SEWER.



DETAIL B: DURING LOADING OF MATERIAL, AS REQUIRED, ONSITE PERSONNEL WILL SWEEP ADJACENT ROADS TO MAINTAIN THE ROAD FREE OF SOIL.

DETAIL 2: STREET SWEEPING / HOUSEKEEPING

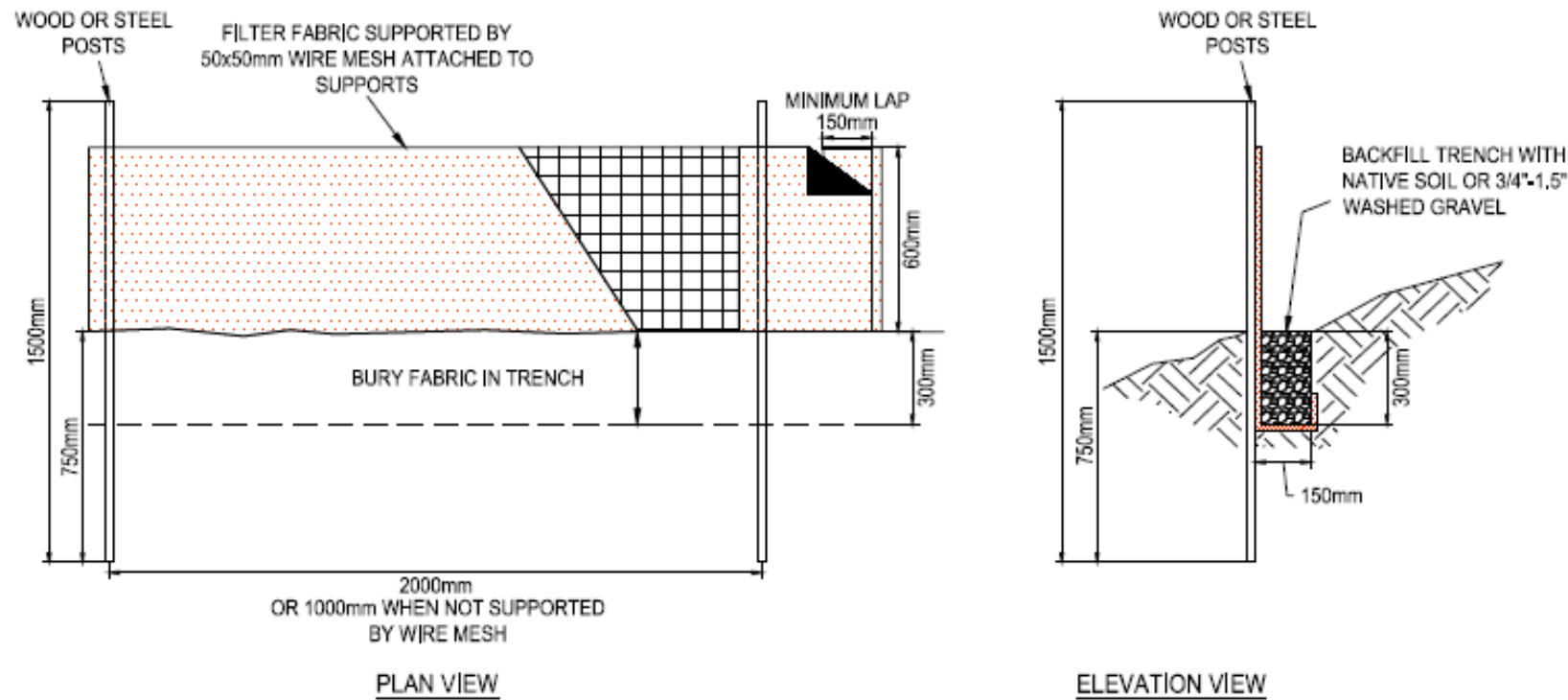


1	November 2024	Issue for Client's Review
REV.	DATE	DESCRIPTION

Figure Title: Erosion and Sediment Control Details Notes - Sheet 1
 Project Title: Building Demolition
 Address: 560 Sydney Avenue, Coquitlam, BC
 Client Name: City of Coquitlam

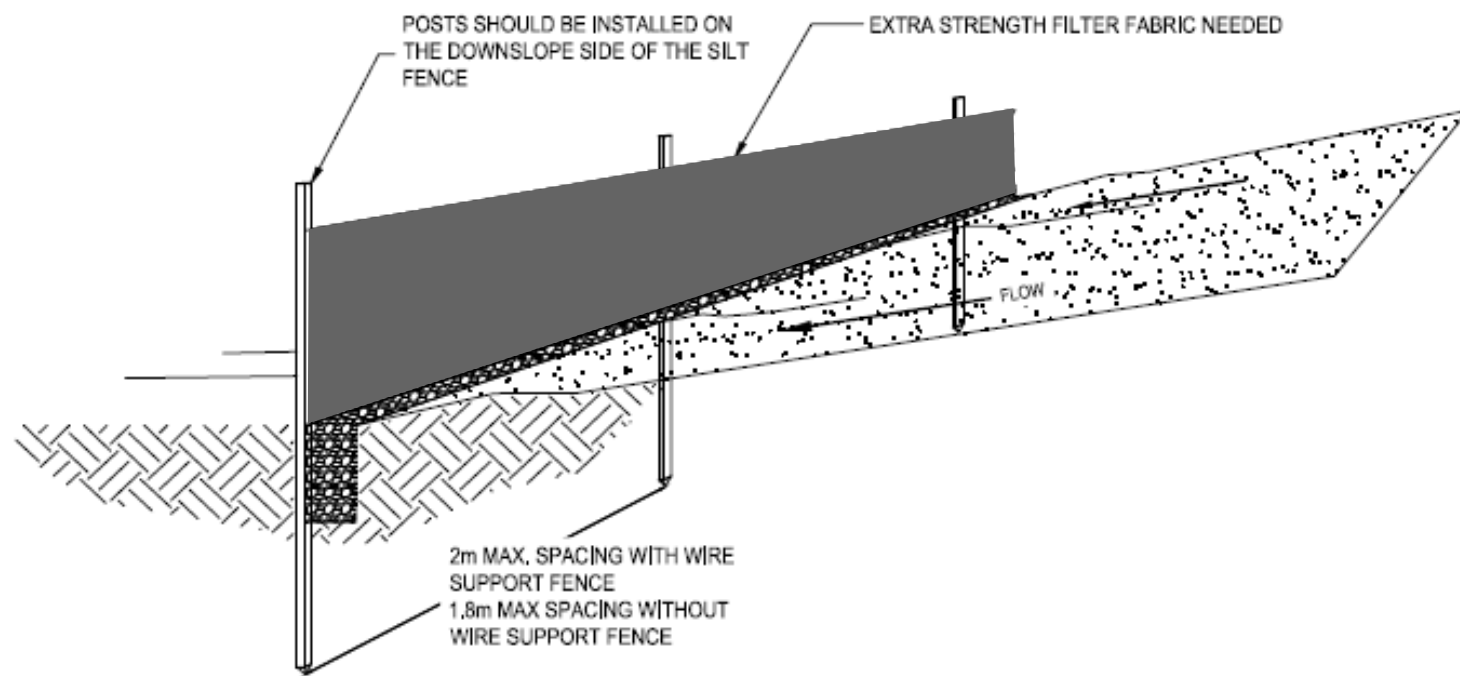
DRAWN BY:	
DRAFTED BY:	BH
CHECKED BY:	DH and BH
DATE:	November 2024
SCALE:	NA

PROJECT No.:	2400754
Figure No.:	6



NOTES-

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN ACCUMULATED SILT REACHES 1/2 FENCE HEIGHT OR 225mm MAXIMUM SUGGESTED OFF-SITE
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE
4. THIS FIGURE IS PROVIDED FOR GUIDANCE ONLY, AND DOES NOT CONSTITUTE A DESIGN. A SITE SPECIFIC DESIGN IS TO BE DETERMINED AND APPROVED BY ENVIRONMENTAL MONITOR AND/OR DESIGNER/ENGINEER



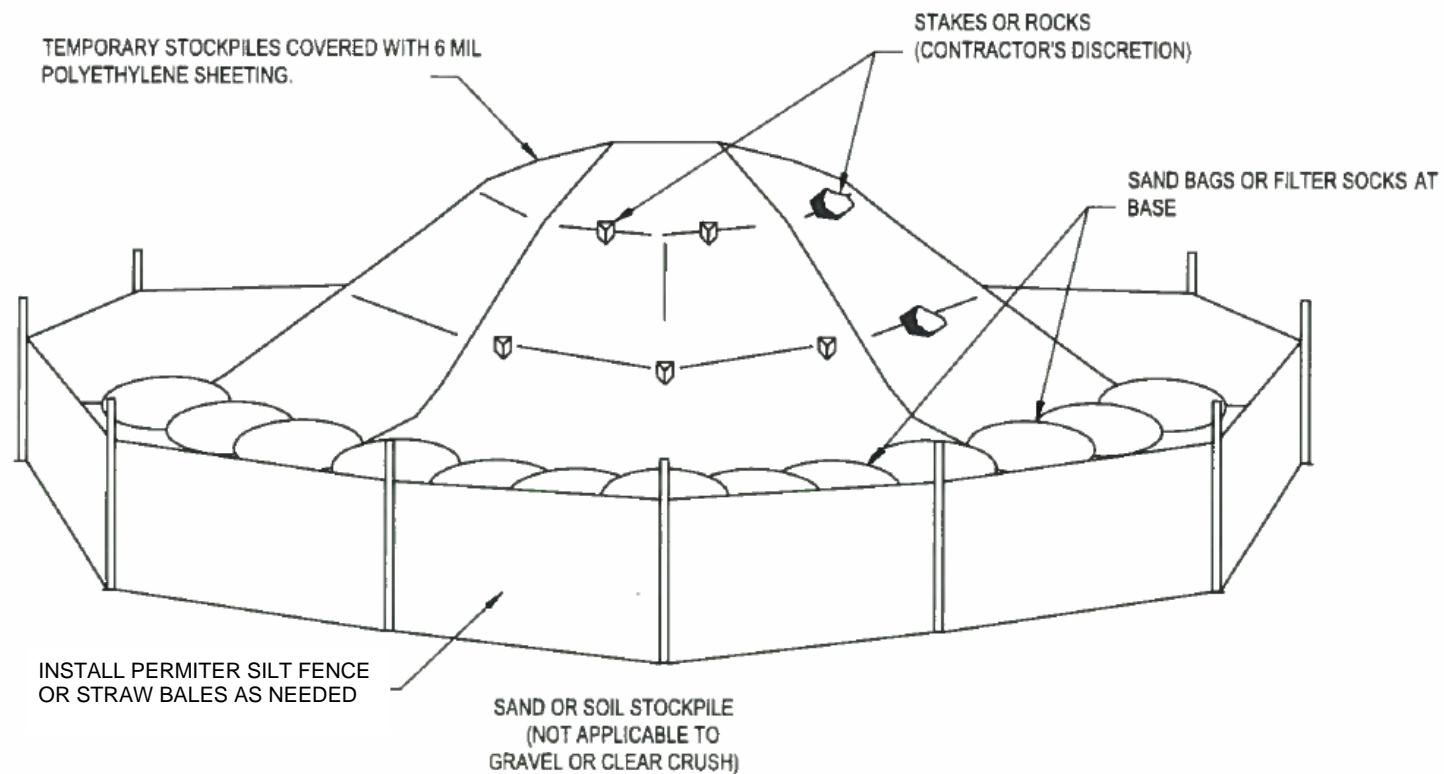
DETAIL 3: SEDIMENT FENCING



1	November 2024	Issue for Client's Review
REV.	DATE	DESCRIPTION

Figure Title: Erosion and Sediment Control Details Notes - Sheet 2
 Project Title: Building Demolition
 Address: 560 Sydney Avenue, Coquitlam, BC
 Client Name: City of Coquitlam

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CHECKED BY: DH and BH	Figure No.:
DATE: April 2024	7
SCALE: NA	



DETAIL 4A: STOCKPILE PROTECTION

NOTE: THE MATERIALS, EQUIPMENT AND METHODS SHOWN HEREIN ARE APPROPRIATE EROSION AND SEDIMENT CONTROLS PROVIDED THEY ARE OPERATED AND MAINTAINED PER THE SUPPLIER'S OR MANUFACTURER'S SPECIFICATIONS.



DETAIL 4B: STOCKPILE PROTECTION



DETAIL 4C: MULCH APPLICATION



DETAIL 4D: POLYETHYLENE SHEETING

DETAIL 4: TEMPORARY SURFACE COVER



1	November 2024	Issue for Client's Review
REV.	DATE	DESCRIPTION

Figure Title: Erosion and Sediment Control Details Notes - Sheet 3
 Project Title: Building Demolition
 Address: 560 Sydney Avenue, Coquitlam, BC
 Client Name: City of Coquitlam

DRAWN BY:	
DRAFTED BY:	BH
CHECKED BY:	DH and BH
DATE:	November 2024
SCALE:	NA

PROJECT No.:	2400754
Figure No.:	8

DETAILED EROSION AND SEDIMENT CONTROL NOTES - BUILDING DEMOLITION ONLY

PERSONS RESPONSIBLE

1. UNDER THIS PLAN THE CONTRACTOR(S) SHALL COMPLY WITH ALL REGULATORY REQUIREMENTS SPECIFIED BY FEDERAL, PROVINCIAL, AND MUNICIPAL AGENCIES PERTAINING TO MANAGEMENT AND DISCHARGE ASSOCIATED WITH EROSION AND SEDIMENT CONTROL (ESC).
2. THE CONTRACTOR(S) SHALL INSTALL ESC MEASURES AS PER MANUFACTURER'S RECOMMENDATIONS.
3. THE CONTRACTOR(S) SHALL ENSURE THAT STORMWATER CONVEYANCE CHANNELS AND DISCHARGE POINTS TO ADJACENT WATERCOURSES OR ENTRY POINTS TO PIPED NETWORKS ARE ADEQUATELY PROTECTED.
4. THE CONTRACTOR(S) SHALL ENSURE THAT THE ESC MEASURES ARE WELL MAINTAINED, CLEARED, REPAIRED, OR REPLACED AS REQUIRED.
5. UPON INSTRUCTION OR NOTIFICATION BY THE ESC MONITOR; PERSONS RESPONSIBLE ARE REQUIRED TO UNDERTAKE MAINTENANCE ACTIVITIES AS DEEMED NECESSARY TO MODIFY OR MAINTAIN ESC MEASURES.

IMPLEMENTATION AND BEST MANAGEMENT PRACTICES

6. THE LOCATION OF ALL ESC MEASURES SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE AREA THEY ARE REQUIRED TO PROTECT THE DOWNSTREAM WATER QUALITY.
7. DEMOLITION SHOULD BE STAGED TO MINIMIZE BARE SOIL PRESENT AT ANYTIME.
8. THE CLEARING AND GRUBBING LIMIT SHALL BE DELINEATED AND VEGETATION PROTECTION FENCING SHALL BE IN PLACE FOR ONSITE BYLAW SIZE TREES.
9. CATCH BASINS WITHIN AND ADJACENT TO THE PROJECT AREA SHOULD BE FITTED WITH INLET PROTECTIONS. CATCH BASIN INLET PROTECTIONS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
10. CONTACTOR SHALL CONDUCT REGULAR MAINTENANCE TO ENSURE THE FULL FUNCTIONALITY OF ALL CATCH BASINS OVER THE COURSE OF THE DEMOLITION.
11. CONDUCT STREET SWEEPING AND CLEAN UP DEBRIS OF DEMOLITION AND NEW BUILDING WORK AS FREQUENT AS NEEDED.
12. PRIOR TO THE DEMOLITION, PERIMETER CONTROL MEASURES SHALL BE EVALUATED BY THE ESC MONITOR.
13. AS NEEDED SEDIMENT FENCING OR OTHER PERIMETER CONTROL MEASURES SHALL BE INSTALLED ALONG THE PERIMETER OF THE ACTIVE WORK ZONE WHERE BARE SOIL IS ANTICIPATED. PERIMETER CONTROL MEASURES SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.

14. SOIL STOCKPILES SHALL BE STABILIZED FROM EROSION, PROTECTED SEDIMENT TRAPPING MEASURES, AND WHEN POSSIBLE, BE LOCATED AWAY FROM STORM DRAIN INLETS, WATERWAYS AND DRAINAGE CHANNELS.
 15. EXPOSED OR STRIPPED SLOPES SHOULD BE COVERED TO PREVENT EROSION AND MOBILIZATION OF SEDIMENT.
 16. TO PREVENT RELEASE OF DELETERIOUS SUBSTANCES, WORKS INVOLVING THE USE OF CEMENT OR LIME-CONTAINING CONSTRUCTION MATERIALS, SHALL NOT DEPOSIT (DIRECTLY OR INDIRECTLY) SEDIMENTS, DEBRIS, CONCRETE, LEACHATE CONCRETE FINES, WASH OR CONTACT WATER INTO ANY WATERCOURSE.
 17. ALL WORK SHALL BE CONDUCTED IN A MANNER TO PREVENT THE RELEASE OF SILT, RAW CONCRETE LEACHATE OR OTHER DELETERIOUS SUBSTANCES INTO ANY WATERCOURSE OR STORM SEWER.
 18. DISCHARGE OF PETROLEUM HYDROCARBONS, SOLVENTS, HEAVY METAL PARTICULATE, CEMENT, OR ANY MATERIAL THAT COULD BE DEEMED "DELETERIOUS" UNDER THE FISHERIES ACT IS NOT PERMITTED.
 19. DEMOLITION AND EXCAVATION WASTES, OVERBURDEN, SOIL, OR OTHER SUBSTANCES DELETERIOUS TO AQUATIC LIFE SHALL BE DISPOSED OR PLACED IN A MANNER TO PREVENT THEM FROM ENTERING INTO ANY WATERCOURSES.
 20. AS PER CITY OF COQUITLAM STREAM AND DRAINAGE SYSTEM PROTECTION BYLAW NO. 4403, 2013, NO PERSON SHALL CAUSE OR PERMIT TO BE RELEASED, DIRECTLY OR INDIRECTLY INTO DRAINAGE SYSTEM ANY SEDIMENT, EARTH, EXCAVATION WASTES, OR OTHER SUBSTANCES, WHICH WHEN MIXED WITH WATER, WILL RESULT IN:
 - A PH VALUE OUTSIDE THE RANGE OF 6.5 TO 8.0; OR,
 - A DISCHARGE EXCEEDING A TURBIDITY LEVEL OF 25 NEPHLOMETRIC TURBIDITY UNIT (NTU), EXCEPT DURING AND FOR 24 HOURS FOLLOWING A SIGNIFICANT RAINFALL EVENT (RAIN: 25 MM OR MORE IN 24 HOURS).
- GENERAL MAINTENANCE AND DECOMMISSIONING**
21. PROPOSED SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND BE FUNCTIONAL OVER THE COURSE OF CONSTRUCTION.
 22. CHANGES IN THE DESIGN OR THE MEASURES MAY BE REQUIRED IF THE PROPOSED STRUCTURE IS NOT ADEQUATE.
 23. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR MAINTENANCE OF ESC MEASURES UNTIL PERMANENT MEASURES ARE IN PLACE.
 24. ALL CATCH BASINS SHOULD BE MAINTAINED FREE OF ACCUMULATED SEDIMENT.
 25. ROADWAY AND ASPHALT OR CONCRETE SURFACES MUST BE KEPT CLEAN AND FREE OF SEDIMENT AND DEBRIS.



1	November 2024	Issue for Client's Review
REV.	DATE	DESCRIPTION

Figure Title: Erosion and Sediment Control Details Notes - Sheet 4
 Project Title: Building Demolition
 Address: 560 Sydney Avenue, Coquitlam, BC
 Client Name: City of Coquitlam

DRAWN BY:	PROJECT No.:
DRAFTED BY: BH	2400754
CHECKED BY: DH and BH	Figure No.:
DATE: November 2024	9
SCALE: NA	

26. THE CONTRACTOR(S) SHALL CONDUCT STREET SWEEPING TO PREVENT AND MITIGATE SEDIMENT FROM MIGRATING OFFSITE.

27. NO SOIL, SAND, OR OTHER MATERIAL WITH A HIGH SEDIMENT CONTENT SHALL BE DEPOSITED OR PILED OUTSIDE OF THE SITE BOUNDARIES, PARTICULARLY ON PAVED ROAD SURFACES.

28. REGULARLY INSPECT PERIMETER CONTROL MEASURES, REPAIRING OR REINSTALLING AS NEEDED.

29. FOR SEDIMENT FENCING, REMOVE SEDIMENT WHEN ACCUMULATED SEDIMENT REACHES 1/2 FENCE HEIGHT OR 225 MM MAXIMUM SUGGESTED STORAGE HEIGH.

30. SEDIMENT REMOVED FROM ESC MEASURES SHALL BE DISPOSED IN A MANNER TO NOT COMPOUND OR COMPROMISE THE SEDIMENT LOADING OF OTHER CONTROL MEASURES, AND TO PREVENT ITS ENTRY INTO THE SITE DRAINAGE SYSTEM, AND / OR INTO STORM SEWER SYSTEM OR WATERCOURSE.

31. SHOULD ANY PART OF THE ESC WORKS BECOME DAMAGED OR BLOCKED OR IN ANY OTHER WAY NOT FUNCTION PROPERLY, THE CONTRACTOR(S) SHALL TAKE STEPS NECESSARY TO REPAIR AND / OR REMOVE SUCH DAMAGE OR BLOCKAGE, OR OTHER CAUSE OF MALFUNCTION.

32. RE-VEGETATE, COVER OR MULCH DISTURBED AREAS SO SOON AS PRACTICALLY POSSIBLE.

33. UPON COMPLETION OF THE PROJECT AND AFTER PERMANENT MEASURES ARE IN PLACE, ALL TEMPORARY ESC MEASURES SHALL BE REMOVED PROPERLY DISPOSED OF BY THE CONTRACTOR(S).

34. DECOMMISSIONING OF ESC SYSTEM SHALL OCCUR ONLY AFTER HARD SURFACES ARE IN PLACE AND SURFACE WATER IS SUITABLY DIRECTED TO THE STORM WATER SYSTEM.

35. IF A WATER TREATMENT SYSTEM IS APPLIED. THE SYSTEM WILL ONLY BE DECOMMISSIONED BASED ON CITY'S APPROVAL.

MONITORING, INSPECTION, AND REPORTING

36. ONCE THE ESC WORKS HAVE BEEN COMPLETED, AND BEFORE THE START OF DEMOLITION, THE ESC WORKS SHALL BE INSPECTED TO ENSURE THAT THEY ARE INSTALLED AND CONSTRUCTED AS PER THE APPROVED DRAWINGS.

37. ANY DEFICIENCIES IN THE SEDIMENT CONTROL WORKS SHALL BE CORRECTED, BEFORE PROCEEDING WITH ANY OTHER ONSITE CONSTRUCTION.

38. THE CONTRACTOR(S) SHALL CONDUCT ROUTINE MONITOR, MAINTAIN AND REPAIR ESC MEASURES TO ENSURE THEY ARE WORKING EFFECTIVELY, ESPECIALLY DURING AND AFTER PERIODS OF RAINFALL.

39. OVER THE COURSE OF THE DEMOLITION, ESC MONITORING AND REPORTING SHALL BE CONDUCTED AS PER THE FOLLOWING FREQUENCY:

- WET SEASON (15 OCTOBER TO 15 MAY): WEEKLY MONITORING AND BI-WEEKLY REPORTING
- DRY SEASON (16 MAY TO 14 OCTOBER): BI-WEEKLY MONITORING AND MONTHLY REPORTING
- SIGNIFICANT RAINFALL EVENT:
 - MONITORING FREQUENCY: 48 HOUR PRIOR TO EVENT, DURING THE EVENT, AND WITHIN 24 HOURS OF EVENT.
 - REPORTING FREQUENCY: WITHIN 7 DAYS OF EVENTS..

40. COQUITLAM RAINFALL SUMMARY - FLOWWORKS (COTTONWOOD PARK RAIN GAUGE STATION) IS TO USE TO TRACK SIGNIFICANT RAINFALL EVENTS.

41. EARTHWORKS AND GRADING SHALL BE SHUT DOWN DURING SIGNIFICANT RAINFALL EVENTS.

EROSION AND SEDIMENT CONTROL ADVISORY SIGNAGE

42. AN *EROSION AND SEDIMENT CONTROL ADVISORY SIGNAGE* SHALL BE POSTED AT THE SITE FOR THE DURATION OF THE DEMOLITION. PLEASE REFER TO **APPENDIX B** FOR DETAILS OF THE SIGNAGE.

I, Bo Huang, the Qualified Professional hereby certify that I have reviewed the ESC Plan.

ISSUED FOR REVIEW



1	November 2024	Issue for Client's Review
REV.	DATE	DESCRIPTION

Figure Title: Erosion and Sediment Control Details Notes - Sheet 5
 Project Title: Building Demolition
 Address: 560 Sydney Avenue, Coquitlam, BC
 Client Name: City of Coquitlam

DRAWN BY:	PROJECT No.:
DRAFTED BY: BH	2400754
CHECKED BY: DH and BH	Figure No.:
DATE: November 2024	10
SCALE: NA	

Appendix A - ESC BMP for Hydroseeding

Seeding & Hydro Seeding

Erosion Control BMP

BMP # 11

Permanent BMP



Native seed mix along streambanks



Application of hydroseed

Disclaimer: The guidance provided is for information purposes only. An Erosion and Sediment Control Plan (ESCP) created by an appropriately qualified professional (AQP) may be required for site-specific requirements.

Refer to BC Ministry of Transportation & Infrastructure's document titled, *Standard Specifications for Highway Construction – [Section 757 – Revegetation Seeding](#)* for more details.

Description and Purpose:

Seeding

- Planting seed after a layer of organic topsoil has been spread is optimal.
- Provides erosion protection through a shallow root structure from seed germination and plant growth.

Hydroseeding

- Spraying a slurry to a slope or channel surface to provide a layer of seed and growing medium.
- The slurry consists of seed, fertilizer, mulch, tackifiers, and water which are mixed in a tank.
- Hydroseeding enables quick re-vegetation of very steep or rocky/gravelly slopes where re-vegetation by any other method would be very difficult or unsafe.
- When sprayed on the soil, the slurry forms a continuous blanket with seeds, and protects the soil from wind and water erosion and raindrop impact by adhering them in place.
- The slurry conserves moisture, reduces soil moisture evaporation, and decreases soil surface crusting due to evaporation or drying of soil.

Applications:

Seeding

- Revegetation seeding with rapidly growing plants may be applied to exposed soil areas which will be exposed for more than 30 days.
- Revegetation seeding should be applied to exposed soil areas that have been graded to final contours as soon as possible.

Seeding & Hydro Seeding

Erosion Control BMP

BMP # 11

Permanent BMP

- Revegetation seeding may be applied to landscape corridors, slopes, and channels via broadcasting or hydraulically with mulch and tackifier.
- Erosion control can be enhanced with a protective layer of mulches or rolled erosion control products (RECPs) to improve the growth environment and provide protection for the soils.

Hydroseeding

- Slurry is held in suspension through consistent agitation and is sprayed onto disturbed areas using high pressure pumps.
- Can be used for spray-on seeding, covering large areas efficiently after placement of topsoil.
- Can be used to provide temporary or permanent erosion control before vegetation is established.
- May be used to provide soil stabilization for disturbed areas.
- Can also be used with higher efficiency and larger area coverage with advantages over conventional methods (broadcast seeders, drill seeders).
- Can be used in areas where little topsoil is available.

Installation:

- Prepare soil surface by removing large rocks or other deleterious materials.
- Apply topsoil if available.
- Spray on hydroseed as per supplier's recommendations.
- Apply seed as per the [BC MOTI Standard Specifications Section 757](#)
- Fertilizer should be applied after seeding, only to areas outside of the riparian zone.

Considerations:

- Selection of an appropriate seed mix depends on soil conditions, climate conditions, topography, land use, and regional location.
- Refer to the [BC MOTI Standard Specifications Section 757](#) for updated regional seed mixtures.
- Planting via hydro-seeding and mulching techniques should be considered for slopes steeper than 3H:1V where seedbed preparation may be difficult.
- Fertilizer use should be carefully controlled as this may increase nutrient loading to receiving environments (i.e., water bodies) if the runoff is not controlled properly.
- Seeding should occur during periods when germination of plants will have enough time to establish before the end of the growing season or periods of drought or frost.
- Mulch is required when broadcast seeding or if seeding is applied outside of the growing season.
- Consult a local seed supplier, Professional Agrologist, or Ministry Representative for specific needs of the local growth environment and specific planting design.
- Seed selection should be made in accordance with BC MOTI regionally approved seed mixes.

Seeding & Hydro Seeding

Erosion Control BMP

BMP # 11

Permanent BMP

Inspection and Maintenance:

- Inspection frequency should be in accordance with the site-specific Erosion and Sediment control Plan (ESCP).
- Bare or damaged areas may need to be reseeded following initial application.
- Freshly seeded areas should be inspected frequently to ensure successful growth. Reseeding some areas may be required.

Appendix B - Erosion and Sediment Control
(ESC) Advisory Signage Requirements and
Template

ESC ADVISORY SIGNAGE REQUIREMENTS

EVERY PARCEL ON WHICH DEVELOPMENT WHICH IS SUBJECT TO SECTION 4.2 OF THE STREAM AND DRAINAGE PROTECTION BYLAW NO. 4403, 2013 HAS BEEN AUTHORIZED MUST POST WATERPROOF COPIES OF THE EROSION AND SEDIMENT CONTROL ADVISORY SIGNAGE IN A LOCATION VISIBLE FROM OFFSITE AND KEEP THE SIGN(S) POSTED FOR THE DURATION OF THE DEVELOPMENT. THE SIGN MUST BE A MINIMUM OF 60 CM BY 90 CM IN SIZE, WITH BLACK LETTERING WORDED IN ACCORDANCE WITH THE TEMPLATE BELOW ON A WHITE BACKGROUND.

ESC ADVISORY SIGNAGE TEMPLATE

**EROSION AND SEDIMENT CONTROL
PROGRAM IN EFFECT
BY CITY REGULATION BYLAW NO. 4403, 2013**

Erosion and sediment control facilities have been installed on this site and are to be maintained for the duration of development to control site erosion and reduce the amount of sediment entering the drainage system and creeks. This site is monitored regularly by an Erosion and Sediment Control Supervisor, and is inspected periodically by the City of Coquitlam. If the site requires attention, please contact:

[NAME & TITLE OF ESC SUPERVISOR]

[24 HOUR PHONE NUMBER]

OR

City of Coquitlam Customer Service Hotline 604-927-3500

Reference Site Address: [-----]

Reference City Permit #: [-----]