

PYATOK 1611 TELEGRAPH AVE. SUITE 200 OAKLAND, CA 94612

www.pyatok.com

WP WEST ACQUISITIONS, LLC

510.465.7010 p | 510.465.8575 f

20 SUNNYSIDE AVE, SUITE B MILL VALLEY, CA 94941

ENGINEERS / SURVEYORS / PLANNERS
150 CALIFORNIA ST. SUITE 650
SAN FRANCISCO, CA 94111

415.930.7900 p | 415.930.7999 f

VALDEZ (ALTA WAVERLY)

REVISION SCHEDULE

NO. ISSUE DATE

60% DD 06/12/
100% DD 07/17/

2

60% DD 06/12/2015 100% DD 07/17/2015 50% CD 09/14/2015 (DRAFT PERMIT SET) PERMIT SET 10/12/2015

80% CD / GMP 10/12/2015

 A
 PERMIT RESUBMITTAL
 02/05/2016

 B
 FOR CONSTRUCTION
 03/23/2016

STORMWATER

**CONTROL PLAN** 

JOB NUMBER: 1408

DATE: 03/23/2016

SCALE: 1"=20'

No. 75811 | 6

EXP. 6/30/16 | +

CIVIL OF CALLFORNIA

C7.1

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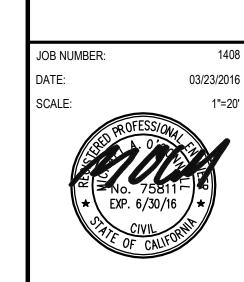
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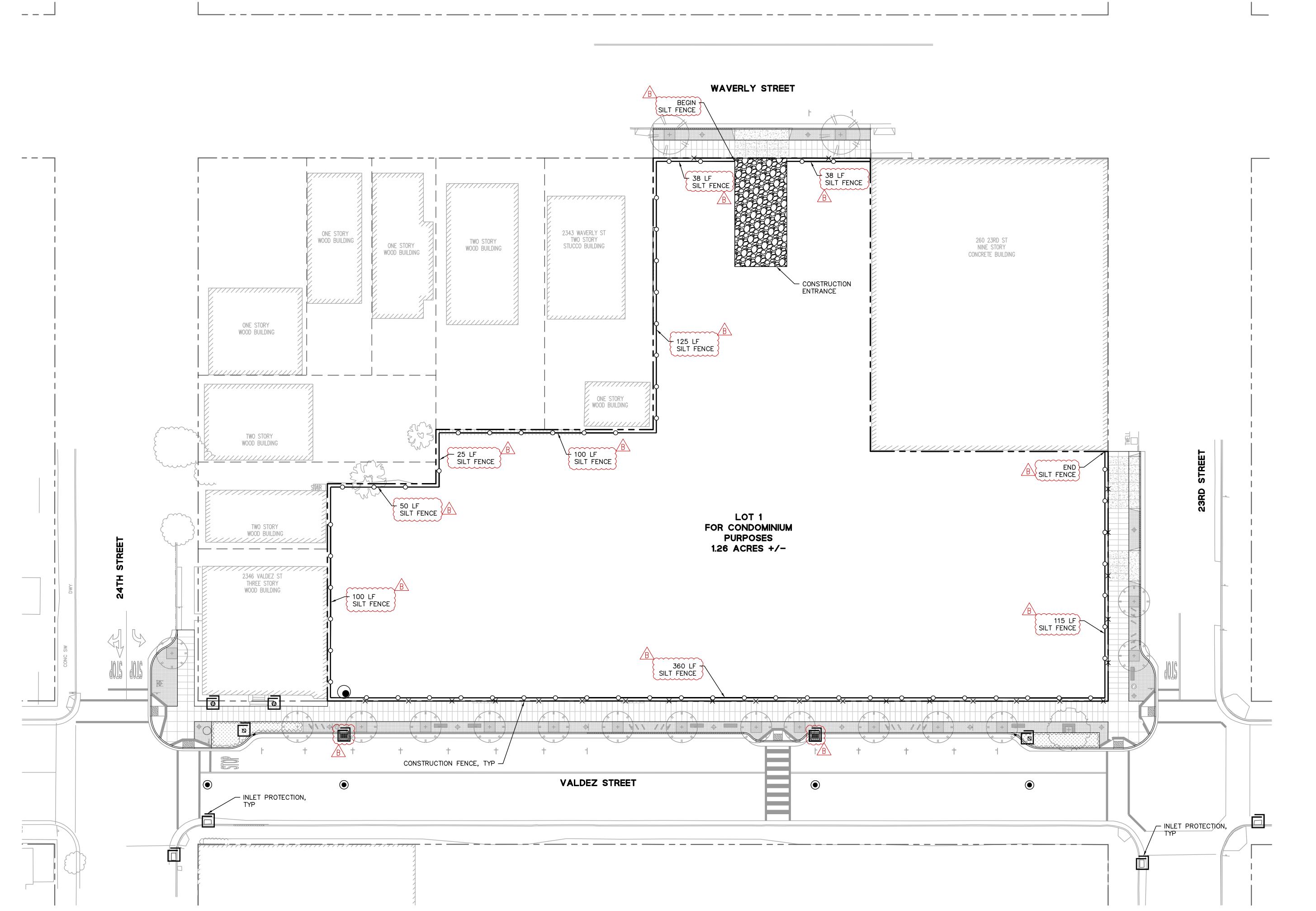
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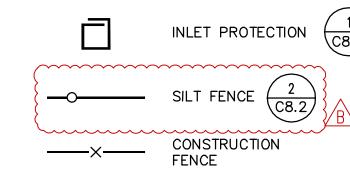
EROSION CONTROL



C8.1









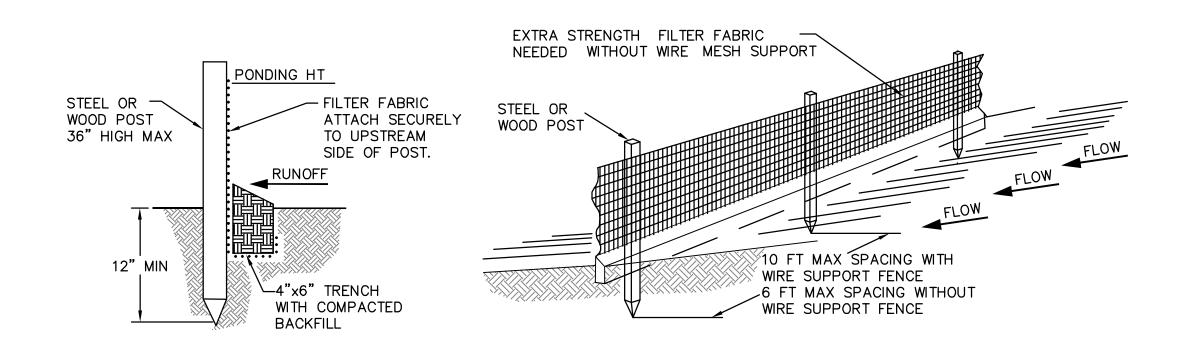
# EROSION CONTROL NOTES

1. AN ADDITIONAL SEDIMENT BARRIER SHALL BE INSTALLED ON THE CURB INLET OF HARRISON STREET AND 23RD STREET.

## **CURB INLET SEDIMENT BARRIER NOTES:**

- 1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREETS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM
- 2. BAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
- 3. LEAVE ONE GRAVELBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY OVERFLOW. TOP OF SPILLWAY SHALL BE LOWER THAN TOP OF CURB.
- 4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

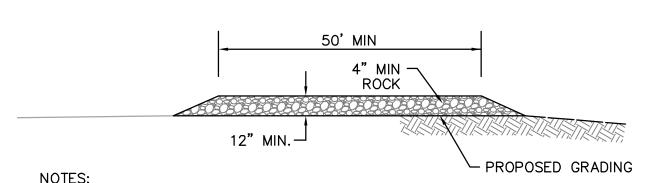




#### STANDARD DETAIL TRENCH WITH NATIVE BACKFILL

- 1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE
- SEDIMENT WHEN NECESSARY.
- 2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY. SILT FENCE ( <del>-</del> / NTS



- 1. THE LOCATIONS SHOWN ARE FOR INFORMATION ONLY. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL ROCK AS CONDITIONS DEMAND. AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USE TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE REMOVED IMMEDIATELY.
- 2. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED ROCK THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. SEDIMENT SHALL BE PREVENTED FROM ENTERING THE STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF INLET PROTECTION (E.G. GRAVELBAGS OR OTHER APPROVED METHODS).
- 3. THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 4" MIN ROCK. 4. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12".
- 5. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS
- OF INGRESS OR EGRESS, OR 25', WHICHEVER IS LESS. 6. THE LENGTH OF THE PAD SHALL NOT BE LESS THAN 50'.
- STABILIZED CONSTRUCTION ENTRANCE NTS

### **EROSION AND SEDIMENT CONTROL NOTES:**

1. OWNER: WOOD PARTNERS

CONTACT: BRIAN PIANCA 20 SUNNYSIDE AVENUE, SUITE B MILL VALLEY, CA 94941

IT SHALL BE THE OWNER'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THE SOIL EROSION CONTROL PLAN.

SAN FRANCISCO, CA 94111

2. CIVIL ENGINEER: BKF ENGINEERS 150 CALIFORNIA STREET, SUITE 650

(415) 930-7900 . CONSTRUCTION SUPERINTENDENT: CONTRACTOR: ANDERSEN CONSTRUCTION COMPANY CONTACT: BRIAN HUGHES 6712 N. CUTTER CIRCLE PORTLAND, OR 97217 TELEPHONE: (503) 283-6712

- 4. THIS PLAN IS INTENDED TO BE USED FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY AND IS NOT TO BE USED FOR FINAL ELEVATIONS OR PERMANENT IMPROVEMENTS.
- 5. DEVELOPER WILL SUBMIT TO THE CITY MONTHLY (AT THE FIRST OF EACH MONTH BETWEEN OCTOBER 15TH AND APRIL 15TH) CERTIFICATIONS THAT ALL EROSION/SEDIMENT MEASURES IDENTIFIED ON THE APPROVED EROSION CONTROL PLAN ARE IN PLACE. IF MEASURES ARE NOT IN PLACE, DEVELOPER SHALL PROVIDE THE CITY WITH A WRITTEN EXPLANATION OF WHY THE MEASURE IS NOT PLACE AND WHAT WILL BE DONE TO REMEDY THIS SITUATION.
- 6. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR, DURING AND AFTER STORM EVENTS.
- 7. REASONABLE CARE SHALL BE TAKEN WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE, DEBRIS, PAPER OR OTHER SUBSTANCE OVER A PUBLIC STREET, ALLEY, OR OTHER PUBLIC PLACE. SHOULD THE HAUL MATERIAL BLOW, SPILL, OR TRACK OVER UPON SAID PUBLIC OR AND ADJACENT PRIVATE PROPERTY, IMMEDIATE REMEDY SHALL OCCUR.
- 8. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
- 9. DURING THE RAINY SEASON, PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO THE STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATER COURSES.
- 10. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS CONCERNING THE POLLUTION ABATEMENT SHALL BE COMPLIED WITH.
- 11. CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE, AND LOCAL AGENCY REQUIREMENTS.
- 12. THE CONTRACTOR SHALL UPDATE THE PLANS TO REFLECT CHANGING SITE CONDITIONS. PLAN UPDATES SHALL BE BASED UPON GENERAL SURVEY DATA. EROSION CONTROL EFFECTIVENESS SHALL ALSO BE MONITORED AND THE PLANS UPGRADED AS REQUIRED TO PREVENT SIGNIFICANT QUANTITIES OF SEDIMENT FROM ENTERING THE DOWNSTREAM DRAINAGE SYSTEM.
- 13. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STORM RUN OFF FROM LEAVING THE SITE. GRAVELBAGS, SILT FENCES AND FIBER ROLLS SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS SHALL USE ONE OF THE SEDIMENT BARRIERS SHOWN.
- 14. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO PUBLICLY AND/OR PRIVATELY OWNED AND MAINTAINED ROADS CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND WILL BE RESPONSIBLE FOR THE CLEANUP OF MATERIAL SPILLED ON PUBLIC ROADS ON THE HAUL ROUTE, ADJACENT PUBLIC ROADS SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
- 15.BEST MANAGEMENT PRACTICES AS DEFINED IN THE SWPPP SHALL BE OPERABLE YEAR ROUND.
- 16.THE NAME, ADDRESS AND 24 HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTATION OF EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER AND THE
- 17.TRUCK TIRES SHALL BE CLEANED PRIOR TO EXITING THE PROPERTY.
- 18.STOCKPILED MATERIAL A. EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED
- B. EXCAVATED SOILS SHOULD BE REMOVED FROM THE SITE BY THE END OF THE DAY, UNLESS STOCKPILING IS NECESSARY.
- C. SURROUND STOCKPILES WITH PERIMETER SILT FENCES, FIBER ROLLS, APPROPRIATELY SIZED SECONDARY CONTAINMENT, OR OTHER RUNOFF
- D. STABILIZE INACTIVE STOCKPILES WITH SOIL STABILIZER AND/OR MULCH, OR COVER WITH A TARPAULIN.
- E. COVER STOCKPILES OF CRUSHED AC OR PCC PAVEMENT WITH A TARPAULIN OR PROVIDE CASE-SPECIFIC DESIGNED SECONDARY CONTAINMENT AND
- SURROUND WITH APPROPRIATE RUNOFF CONTROLS. F. USE INLET PROTECTION FOR STORM DRAIN STRUCTURES ADJACENT TO THE
- MATERIAL. G. THOROUGHLY SWEEP PAVED AREAS EXPOSED TO SOIL EXCAVATION PLACEMENT.

- 19.IF NO WORK HAS PROGRESSED FOR A PERIOD OF 6-WEEKS, FINAL DRAINAGE AND EROSION CONTROL IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED WINTERIZATION PLAN.
- 20.SEDIMENT AND DEBRIS SHALL BE REMOVED FROM TEMPORARY BASINS AND DRAIN INLETS AFTER EACH STORM. SLOPES SHALL BE REPAIRED AS SOON AS POSSIBLE WHEN DAMAGED.
- 21.PADS SHALL BE GRADED TO MINIMIZE STANDING WATER. SPECIFIC LOCATIONS REQUIRING SUPPLEMENTAL GRADING TO ACHIEVE ACCEPTABLE DRAINAGE SHALL BE DETERMINED BY THE CONSTRUCTION MANAGER.
- 22.STUBBED OUT ENDS OF PARTIALLY COMPLETED SUBDRAINS SHALL BE WRAPPED WITH AN APPROVED FABRIC TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE.
- 23. HAUL ROADS ARE CURRENTLY NOT SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE TAKEN TO MINIMIZE EROSION RELATED TO HAUL
- 24.DISPOSAL AREAS FOR SEDIMENT TO BE DETERMINED IN FIELD. WHEN MATERIAL IS STOCKPILED, IT SHALL BE SURROUNDED BY FIBER ROLLS.
- 25.TEMPORARY AND PERMANENT SLOPES GREATER THAN 5 FEET SHALL BE SEEDED UNLESS OTHERWISE SHOWN ON THE PLAN.
- 26.ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING GRADING OPERATION, BEFORE OCTOBER 1 AND PRIOR TO INSTALLATION OF STORM DRAINAGE SYSTEM. SUCH ADDITIONAL MEASURES WILL BE CONTINGENT UPON THE STAGE OF GRADING OPERATION. CONTRACTOR SHALL IMPLEMENT ANY ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER.

### EROSION AND SEDIMENT CONTROL MEASURES

- 1. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 15 TO APRIL 15. FACILITIES ARE TO BE OPERABLE PRIOR TO OCTOBER 1 OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES.
- 2. THIS PLAN COVERS ONLY THE FIRST WINTER FOLLOWING GRADING WITH ASSUMED SITE CONDITIONS AS SHOWN ON THE EROSION CONTROL PLAN. PRIOR TO SEPTEMBER 15, THE COMPLETION OF SITE IMPROVEMENT SHALL BE EVALUATED AND REVISIONS MADE TO THIS PLAN AS NECESSARY WITH THE APPROVAL OF THE CITY ENGINEER. PLANS ARE TO BE RESUBMITTED FOR CITY APPROVAL PRIOR TO SEPTEMBER 1 OF EACH SUBSEQUENT YEAR UNTIL SITE IMPROVEMENTS ARE ACCEPTED BY THE CITY.
- 3. CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE WAYS.
- 4. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS TO EXISTING PAVED STREETS. MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE CITY.
- 5. IF HYDROSEEDING IS NOT USED OR IS NOT EFFECTIVE BY 10/10, THEN OTHER IMMEDIATE METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE-STEP APPLICATION OF 1) SEED, MULCH, FERTILIZER 2) BLOWN STRAW 3) TACKIFIER AND MULCH.
- 6. INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT.

# MAINTENANCE NOTES

- 1. MAINTENANCE IS TO BE PERFORMED AS FOLLOWS: A. REPAIR DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION AT THE END
- OF EACH WORKING DAY. B. SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED. C. SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
- D. SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF
- E. SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- F. RILLS AND GULLIES MUST BE REPAIRED.
- 2. GRAVELBAG INLET PROTECTION SHALL BE CLEANED OUT WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE GRAVELBAG.

Engineers / Surveyors / Planners

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