



# CITY OF VISTA

## Grading Plan Submittal Requirements

Grading plans shall be used to depict earthwork and improvements on private property. Any associated grading plans, easements and maps must be submitted concurrently for plan checking.

C.O.V. Grading Plan: GP \_\_\_\_\_ PC: \_\_\_\_\_ DWG: \_\_\_\_\_ DATE: \_\_\_\_\_

JOB ADDRESS, APN: \_\_\_\_\_

ENGINEER OF WORK (Name, Address, Ph.):

OWNER (Name, Address, Ph.):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1. \_\_\_\_\_ Transmittal Letter from Engineer of Work listing all items being submitted. Distribution: Original to checker, copy to file
2. \_\_\_\_\_ "ENGINEER OF WORK'S ASSESSMENT OF LEVEL OF COMPLETENESS", Must be at 65% or better for 1<sup>st</sup> submittal. Please indicate the percentage and print it on the right hand border of the drawing, where it is indicated.
3. \_\_\_\_\_ (10) Complete sets of grading plans (folded to 9"x12") REQUIRED FORMAT:
  - a. On 24" x 36" D Size Sheets, City Title Block, Notes and PC. , GP or DWG. Number & Plot Date
  - b. Engineer's Signature Stamp & Statements, Min 0.1" Text, Max 20-scale, sheets numbered consecutively
  - c. Job Data: "(Rough or Precise) Grading, Drainage, and Erosion Control Plans for \_\_\_\_\_", Address
  - d. Site Data: Legal Description & APN's. In accordance with the Subdivision Map Act Sec. 66412.6 compliance. Said section requires a C.o.C. for any parcel created before 3/4/72
4. \_\_\_\_\_ (1) Signed original Letter of Permission (LOP) as required to permit offsite work .
5. \_\_\_\_\_ (2) Signed and stamped originals of legal description ("Exhibit A") and plat ("Exhibit B") for dedications and easements if not on associated map. Include closure calculations and all references. (1) copy of each and every referenced document required for complete review, numbered and listed in title report.
6. \_\_\_\_\_ (1) Copy of current Title Report, Lot Book report or Vested Deed for bond preparation.
7. \_\_\_\_\_ (1) Copy of Engineers Cost Estimate for bonding purposes, including detailed cost for erosion control, grading and paving, and drainage structures signed & stamped.
8. \_\_\_\_\_ (1) Copy of construction SWPPP (3-ring binder) with attached and flagged NOI and WDID for sites over 1 acre, or Storm Water Management Permit for sites disturbing under 1 acre. (Disturbed Acreage = \_\_\_\_\_ )
9. \_\_\_\_\_ (1) Copy of Storm Water Management Plan for SUSMP (post-construction BMP) compliance.
10. \_\_\_\_\_ (2) Copies of bound Hydrology and Hydrologic report.
11. \_\_\_\_\_ (3) Copies of the Project Conditions of Approval, if applicable.
12. \_\_\_\_\_ (3) Copies of the bound Soils report (and any update letters) less than 1 year old.
13. \_\_\_\_\_ (1) Original Overhead Utility Letter (Signed by owner).
14. \_\_\_\_\_ (1) Copy of the Underground Utility Plan that is used for submittal to SDG&E.
15. \_\_\_\_\_ (1) Copy of all calculations that apply (Earthwork at a minimum)
16. \_\_\_\_\_ (1) Copy of any applicable studies or reports (mitigation etc.)
17. \_\_\_\_\_ (1) Copy of C.C.&Rs, H.O.A.s., as apply.
18. \_\_\_\_\_ Other: \_\_\_\_\_



## CITY OF VISTA General Notes for Grading Plans

1. ALL GRADING IS TO BE DONE IN ACCORDANCE WITH THE CITY OF VISTA DEVELOPMENT CODE, CHAPTER 17, SECTION 17.56 AND THE SOILS REPORT PREPARED BY \_\_\_\_\_ (SOILS ENGINEER), KNOWN AS JOB NUMBER \_\_\_\_\_.
2. THIS GRADING PLAN DOES NOT AUTHORIZE WORK TO COMMENCE PRIOR TO THE ISSUANCE OF A GRADING PERMIT BY THE CITY OF VISTA.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES, WHETHER SHOWN HEREON OR NOT, AND PROTECT THEM FROM DAMAGE. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID STRUCTURES SHALL BE BORNE BY THE CONTRACTOR.
4. BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING THE FOLLOWING:

UNDERGROUND SERVICE ALERT		(800) 422-4133
UNDERGROUND SERVICE ALERT	(SDG&E)	(800) 227-2600
SAN DIEGO GAS & ELECTRIC	(EMERGENCY)	(800) 411-7343
PACIFIC BELL TELEPHONE CO.	(EMERGENCY)	611
VISTA IRRIGATION DISTRICT	(ENG. DEPT)	(760) 597-3116
VISTA IRRIGATION DISTRICT	(EMERGENCY)	(760) 597-3131
COX CABLE	(EMERGENCY)	(760) 599-6063
ADELPHIA COMMUNICATIONS	(EMERGENCY)	(760) 438-7741
CITY OF VISTA	(MAIN NUMBER)	(760) 726-1340
CITY OF VISTA	(ENG. DEPT. DIRECT LINE)	(760) 639-6111
*RANCHO FIRE DISPATCH	(EMERGENCY)	(858) 756-3006
(*THIS NUMBER IS FOR THE CITY OF VISTA (AFTER HOURS EMERGENCY DISPATCH FOR SEWER SPILLS OR STORM DRAIN CONTAMINATION)		

5. A PERMIT FROM THE DEVELOPMENT SERVICES DEPARTMENT WILL BE REQUIRED PRIOR TO ANY WORK WITHIN THE CITY OF VISTA RIGHT-OF-WAY.
6. NO BUILDING PERMITS WILL BE ISSUED AND NO BUILDING INSPECTIONS WILL BE MADE UNTIL ROUGH GRADING HAS BEEN APPROVED PER CITY OF VISTA.
7. ALL CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL UNLESS OTHERWISE SPECIFIED BY AN APPROVED SOILS ENGINEERING REPORT AND THE CITY ENGINEER.
8. ALL SLOPES SHALL BE PLANTED WITH A GROUND COVER AS APPROVED BY THE CITY OF VISTA PLANNING DEPARTMENT.
9. THE FACE OF CUT AND/OR FILL SLOPES SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION PER CITY OF VISTA DEVELOPMENT CODE, CHAPTER 17, SECTION 56.
10. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL TO NATURAL GROUND ABUTTING CUT OR FILL SURFACES.
11. A PRELIMINARY SOILS REPORT SHALL BE SUBMITTED PRIOR TO GRADING APPROVAL.
12. A FINAL SOILS REPORT, WITH ORIGINAL SIGNATURE/SEAL OF SOILS ENGINEER, SHALL BE SUBMITTED IN DUPLICATE PRIOR TO ROUGH GRADING APPROVAL, AND MUST PROVIDE THE FOLLOWING INFORMATION.
  - a. SOILS BEARING VALUE
  - b. EXPANSIVE CHARACTERISTICS

- c. FOUNDATION RECOMMENDATION
  - d. DISPOSITION OF LARGE ROCKS ENCROACHING ONTO THE FOUNDATION
  - e. COMPACTION REPORT ON GRADED LOTS
  - f. ELEVATION OF WATER TABLE IF ENCOUNTERED
  - g. A PLAT SHOWING THE LOCATIONS OF TEST BORINGS AND/OR EXCAVATIONS
13. ALL ON-SITE AND PRIVATE RESIDENTIAL DRIVEWAYS MUST HAVE A MINIMUM THICKNESS OF 4 INCHES CONCRETE OR 2 INCHES ASPHALT OVER 6 INCHES CLASS 3 BASE, AND MUST BE INSPECTED BY THE ENGINEERING DEPARTMENT...
  14. THE STRUCTURAL SECTION OF PARKING LOTS AND DRIVEWAYS ON ALL COMMERCIAL AND INDUSTRIAL COMPLEXES SHALL BE DESIGNED BASED ON "R" VALUES OF SOILS AND ON A MINIMUM T.I. OF 4.5 IN PARKING STALLS AND A MINIMUM T.I. OF 6.0 IN THE DRIVE LANES. THE MINIMUM SECTION SHALL BE 3" A.C. ON 6" CLASS 2 BASE, OR MINIMUM 4" PCC ON NATIVE. STRUCTURAL SECTIONS DESIGN TO BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION. ALL CURBS, GUTTERS AND SIDEWALKS MUST HAVE A MINIMUM OF 6" CLASS 3 BASE, OR AS RECOMMENDED BY THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER.
  15. THE PERMITTEE SHALL GIVE NOTICE TO THE CITY OF VISTA ENGINEERING INSPECTION DEPARTMENT FOR A PRE-CONSTRUCTION CONFERENCE AT LEAST 48 HOURS PRIOR TO COMMENCING THE WORK. ANY WORK DONE WITHOUT PROPER INSPECTION WILL BE SUBJECT TO REJECTION. PHONE (760) 639-6113 FOR INSPECTIONS.
  16. A FENCE AT LEAST THREE AND ONE-HALF FEET (3-1/2') IN HEIGHT SHALL BE CONSTRUCTED AT THE TOP OF ANY VERTICAL CUT OR RETAINING WALL EXCEEDING FOUR FEET (4') IN HEIGHT, OR AT THE TOP OF ANY CUT OR FILL EXCEEDING FIFTEEN FEET (15') IN HEIGHT.
  17. EROSION CONTROL OF SLOPES – ALL SLOPES IN EXCESS OF 5 FEET IN VERTICAL HEIGHT SHALL BE HYDROSEEDED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS (UNLESS SUPERSEDED BY AN APPROVED EROSION CONTROL OR LANDSCAPING PLAN).
  18. "AS BUILT" DRAWINGS MUST BE SUBMITTED BY THE ENGINEER OF WORK AND APPROVED BY THE CITY ENGINEER PRIOR TO FINAL ACCEPTANCE OF WORK.

## SEWER NOTES

*for use on Grading Plans accompanied by sewer improvement plans or that otherwise propose no public sewer construction*

1. REFER TO THE IMPROVEMENT PLANS (DRAWING No. \_\_\_\_\_) FOR COMPLETE SEWER NOTES.
2. ALL SEWER IMPROVEMENTS SHALL BE DONE IN ACCORDANCE WITH THIS PLAN, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE SAN DIEGO REGIONAL STANDARD DRAWINGS, AND THE CITY OF VISTA STANDARD DRAWINGS, ALL AS LAST AMENDED. WHERE CONFLICTS ARISE, THE MORE STRINGENT SHALL PREVAIL.
3. THE INTERNAL CONDITION OF ALL SEWER FACILITIES WITHIN THE RIGHT-OF-WAY SHALL BE ASSESSED BY CLOSED-CAPTIONED TELEVISION (CCTV) AS FOLLOWS:
  - A. PRE-CONSTRUCTION: NO GRADING OR TRENCHING WILL BE PERMITTED BEFORE CCTV INSPECTION. CCTV INSPECTION PERFORMED ON \_\_\_\_\_.
  - B. POST-TELEVISIONING CCTV INSPECTION OF ALL NEW AND EXISTING SEWER IMPROVEMENTS IS REQUIRED BEFORE FINAL PAVING OR ACCEPTANCE OF SEWER MAINS, LATERALS, AND APPURTENANCES.
  - C. CCTV INSPECTION SCHEDULE AND VIDEO TAPE REVIEW FEES: CONTRACTOR IS REQUIRED TO CONTACT THE SANITATION STAFF AT (760) 809-6146, OR 726-1340, EXTENSION 1336 OR -1372 TO SCHEDULE THE TELEVISIONING INSPECTION AND PAY APPLICABLE FEES.
  - D. SUBMITTAL REQUIREMENTS (MIN.): THE TV INSPECTION SHALL BE PERFORMED ONLY BY THE 'CITY OF VISTA' OR A CITY-APPROVED FIRM. THE CONTRACTOR SHALL SUBMIT TO THE CITY/DISTRICT ENGINEER COLOR CCTV ON CD-ROM WITH VERBAL DESCRIPTION, WRITTEN MANUSCRIPT OF THE PERTINENT DIALOGUE, A DIGITAL FILE OF THE TV INSPECTION DATABASE, AND STILL PICTURES. MINIMAL INFORMATION SHALL INCLUDE; PROJECT NAME, DRAWING NO., DATE & TIME, LINE ID AND LOCATION, PIPE SIZE AND MATERIAL, FOOTAGE, LATERAL LOCATION FROM THE UPSTREAM MANHOLE, AND ANY DEFECTS OR PROBLEM AREAS. FINAL ACCEPTANCE OF THE IMPROVEMENTS IS SUBJECT TO DISTRICT REVIEW AND APPROVAL.
4. DETAILED RECORD DRAWINGS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND SUBMITTED TO THE ENGINEER OF WORK. "AS-BUILT" DRAWINGS SHALL BE SUBMITTED BY THE ENGINEER OF WORK TO THE CITY/DISTRICT INSPECTOR PRIOR TO ACCEPTANCE OF THE PUBLIC SEWER SYSTEM. FINAL LOCATION AND ELEVATION OF SEWER MAIN, MANHOLES, LATERALS, AND CLEANOUTS SHALL BE SHOWN ON THE RECORD DRAWING AND THE "AS-BUILT" DRAWINGS.
5. ENTRY TO MANHOLES IS PERMIT-REQUIRED CONFINED SPACE ENTRY (REF. SEC. 5156, 5157, AND 5158 OF CALIFORNIA OSHA TITLE 8 CCR GISO). SAID PERMIT AND PLAN MUST BE ISSUED BEFORE EACH ENTRY, MAINTAINED ONSITE AND PRESENTED TO CITY/DISTRICT ENGINEER UPON REQUEST. NON-COMPLIANCE MAY RESULT IN DEATH, FINES, OR IMPRISONMENT.
6. AS EARLY AS POSSIBLE, THE CONTRACTOR SHALL SUBMIT A PLAN FOR SANITARY SEWER OVERFLOW PREVENTION AND RESPONSE (SSOP&R) PLAN. PLAN MUST BE APPROVED BY THE DISTRICT ENGINEER BEFORE ANY WORK THAT MAY AFFECT ACTIVE PRIVATE OR PUBLIC SEWER FLOW. SHOULD A SPILL

OCCUR, THE CONTRACTOR SHALL CONTAIN THE SEWAGE FROM ENTERING WATER SURFACE AREAS AND IMMEDIATELY CALL THE DISTRICT WASTEWATER DEPARTMENT AND INSPECTOR FOR INSPECTION, RESPONSE, AND REPORTING:

CITY OF VISTA/ BUENA SANITATION DISTRICT

(7:30 AM TO 3:30 PM)

(760) 726-1340

RANCHO BUENA VISTA DISPATCH

(AFTER WORKING HOURS)

(858) 756-3606

THE CONTRACTOR IS LIABLE FOR ANY AND ALL COSTS INCURRED BY THE DISTRICT FOR RESPONSE AND REPORTING, IN ADDITION TO ANY FINES AND PENALTIES THAT MAY APPLY (REF. COV/BSO SSOP&RP, RWQCB 96-04).

7. THE DISTRICT RESERVES THE RIGHT TO APPROVE OR REQUIRE ANY NECESSARY CHANGES TO ENSURE THAT ALL ACTIVE MANHOLES ARE ACCESSIBLE THROUGH ALL PHASES OF CONSTRUCTION, AND THAT ALL FINISHED MANHOLES ARE LEGALLY AND PHYSICALLY ACCESSIBLE TO DISTRICT STANDARDS. [MIN. ESMT. 15' WIDE W / MIN. 12' WIDE DRIVE LANE MEETING: MIN. 4" CL III A.B. TO 10% GRADE, MIN. 2" A.C. OVER 6" CL II A.B. TO 20% WITH DRIVEWAY APRONS AND GATES PER COVSD 18 AS REQUIRED.]

ENGINEER STATEMENT: I HEREBY CERTIFY THAT I HAVE REVIEWED THE ATTACHED PLANS AND THAT THE PLANS PROVIDE FOR MANHOLE ACCESS BY IMPROVED AND RECORDED EASEMENT IN COMPLIANCE WITH SANITATION STANDARDS.

\_\_\_\_\_  
ENGINEER OF WORK

\_\_\_\_\_  
RCE

\_\_\_\_\_  
DATE

















# City of Vista Checklist

## for reviewing Grading Cost Estimate

GP \_\_\_\_\_ Checked by: \_\_\_\_\_ on date: \_\_\_\_\_

A grading estimate is provided to the city as part of the grading plans to verify all earthwork, storm drainage, paving, erosion control, etc. are itemized and included. The estimate should cover all work to be done. Grading Security allows the City to restore the project to it's original or otherwise stabilized condition and to remediate against erosion to nearby streets or properties.

The following items are a check list to be used when reviewing plans in conformance with Vista Municipal Code. This checklist should be used as a general guide for plan checking purposes. Any discrepancies are subject to the City Engineer's interpretation of The Vista Municipal Code on a case specific basis.

	Done	Remarks
<b>1. Package should include:</b>		
a. (2) sets of Cost Estimate	<input type="checkbox"/>	
<b>2. Requirements for a Grading Cost Estimate</b>		
a. This estimate is prepared to reflect the <b>proposed grading plans</b> for the applicant to bond the work prior to permit issuance.	<input type="checkbox"/>	
b. The estimate should be prepared using City of Vista unit prices available at the City development services center	<input type="checkbox"/>	
c. All temporary and permanent erosion control, landscaping and irrigation, and temporary BMPs to be separated out for cash bonding	<input type="checkbox"/>	
<b>3. Cost estimate should include everything proposed on the Grading Plans.</b>		
<b>An example* of items is as follows:</b>		
a. Excavation and embankment	<input type="checkbox"/>	
b. Import or export of soil	<input type="checkbox"/>	
c. Retaining walls	<input type="checkbox"/>	
d. Storm drains	<input type="checkbox"/>	
e. Cut-off-walls (on steep slopes)	<input type="checkbox"/>	
f. Inlets	<input type="checkbox"/>	
g. Cleanouts	<input type="checkbox"/>	
h. Headwalls	<input type="checkbox"/>	
i. Rip Rap	<input type="checkbox"/>	
j. Detention basin	<input type="checkbox"/>	
k. Concrete swales	<input type="checkbox"/>	
l. All paved surfaces	<input type="checkbox"/>	
m. Any special construction or post-construction BMPs	<input type="checkbox"/>	
n. Erosion/Sediment control devices (i.e.: gravel bags)	<input type="checkbox"/>	
o. Hydroseeding slopes	<input type="checkbox"/>	
*There may be other items on the plans which do not appear on this list. All items for grading, storm drainage and erosion control should be included on this estimate.		
<b>4. Does estimate include a 10% contingency?</b>	<input type="checkbox"/>	
<b>5. Is the estimate signed and stamped by the RCE?</b>	<input type="checkbox"/>	
<b>6. Spot check the quantities of a few large cost items on the estimate against the grading plans</b>	<input type="checkbox"/>	
<b>7. Add the subtotal (item) costs to verify the total cost and contingency</b>	<input type="checkbox"/>	



## CITY OF VISTA

### Storm Water and Erosion Control Notes

1. TOTAL AREA OF LAND DISTURBANCE = \_\_\_\_\_ ACRES.
2. THIS PROJECT IS SUBJECT TO ALL APPLICABLE GENERAL AND PROJECT SPECIFIC PROHIBITIONS AND REQUIREMENTS IN CHAPTERS 13.18, AND 17.56 OF THE VISTA MUNICIPAL CODE, AND THE CITY STORMWATER STANDARDS MANUAL.
3. BMPS AT MANNED FACILITIES MUST BE INSPECTED BY THE EROSION CONTROL CONTRACTOR BEFORE AND FOLLOWING PREDICTED RAIN EVENTS. BMPS AT UNMANNED FACILITIES MUST BE INSPECTED BY THE DISCHARGER REGULARLY DURING THE RAINY SEASON AND PERIODICALLY BETWEEN EACH RAINY SEASON. THESE BMPS MUST BE MAINTAINED SO THAT THEY CONTINUE TO FUNCTION AS DESIGNED. BMPS WHICH FAIL MUST BE REPAIRED AS SOON AS IT IS SAFE TO DO SO. IF THE FAILURE OF A BMP INDICATES THAT THE BMPS IN USE ARE INAPPROPRIATE OR INADEQUATE TO THE CIRCUMSTANCES, THE BMPS MUST BE MODIFIED OR UPGRADED TO PREVENT ANY FURTHER FAILURE IN THE SAME OR SIMILAR CIRCUMSTANCES.
4. IN THE EVENT OF FAILURE OR REFUSAL TO PROPERLY MAINTAIN SAID DEVICES, THE LAND DEVELOPMENT ENGINEER MAY CAUSE EMERGENCY MAINTENANCE WORK TO BE DONE TO PROTECT ADJACENT PRIVATE AND PUBLIC PROPERTY, THE COST (INCLUDING AN INITIAL MOBILIZATION AMOUNT) OF WHICH SHALL BE CHARGED TO THE OWNER.
5. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE LAND DEVELOPMENT ENGINEER.
6. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS THE WORK PROGRESSES AS RECOMMENDED BY THE ENGINEER OF WORK AND AS APPROVED BY THE LAND DEVELOPMENT ENGINEER.
7. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS, AND PERIODICALLY THEREAFTER, AS DIRECTED BY THE INSPECTOR.
8. A 12 INCH HIGH BY 4-FOOT WIDE BERM SHALL BE MAINTAINED ALONG THE TOP OF SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS. CONCENTRATED WATER SHALL BE CARRIED NOT CLOSER THAN 10 FEET FROM THE TOP OF SLOPES.
9. STAND-BY CREWS SHALL BE ALERTED BY THE CONTRACTOR, PERMITTEE, OR OWNER FOR EMERGENCY WORK DURING RAINSTORMS.
10. ALL UTILITY TRENCHES SHALL BE BACKFILLED WITHIN 24 HOURS AND MUST BE BACKFILLED BEFORE THE END OF THE WORK DAY IF A 40% CHANCE OF RAIN IS PREDICTED.
11. ALL BUILDING PADS SHALL BE SLOPED TOWARDS THE DRIVEWAY AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET. VELOCITY CHECK DAMS SHALL BE PROVIDED ACROSS THE OUTLETS OF ALL LOTS DRAINING INTO THE STREET.
12. PROVIDE VELOCITY CHECK DAMS IN ALL STREET AREAS, PAVED OR UNPAVED, AT THE INTERVALS INDICATED BELOW. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVELBAGS, TIMBER, OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE LAND DEVELOPMENT ENGINEER, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. EARTHEN DIKES MAY NOT BE USED AS VELOCITY CHECK DAMS.

STREET GRADE  
LESS THAN 2%  
2% TO 4%

CHECK DAM INTERVAL  
AS REQUIRED  
100 FEET

4% TO 10%  
OVER 10%

50 FEET  
25 FEET

13. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW UNLESS CHANNELS ARE LINED WITH TEMPORARY MATERIALS SUCH AS PLASTIC SHEETING.

CHANNEL GRADE  
LESS THAN 3%  
3% TO 6%  
OVER 6%

CHECK DAM INTERVAL  
100 FEET  
50 FEET  
25 FEET

14. A GRAVELBAG SILT BASIN, OR SILT TRAP, SHALL BE PROVIDED AT EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.
15. A GUARD SHALL BE POSTED ON SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET.
16. ALL REMOVABLE PROTECTION DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%. AFTER EACH RAINSTORM EXCEEDING ¼ INCH IN A 12 HOUR PERIOD, SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS AND DESILTING BASINS, AND BASINS SHALL BE PUMPED DRY.
17. EFFECTIVE PLANTING SHALL BE INSTALLED, FULLY GERMINATED, AND SHALL EFFECTIVELY COVER THE REQUIRED SLOPES PRIOR TO FINAL APPROVAL. THE PLANTING MIX SHALL BE APPROVED BY THE LAND DEVELOPMENT ENGINEER PRIOR TO INSTALLATION. SPRINKLER SYSTEMS ARE REQUIRED ON ALL SLOPES OVER FIVE FEET IN HEIGHT. TEMPORARY SPRINKLER SYSTEMS WILL BE REQUIRED ON ALL SLOPES UNTIL PLANTING IS ESTABLISHED, AND MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE LAND DEVELOPMENT ENGINEER.
18. GRAVEL BAGS AND NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES, WHEN RAIN IS IMMINENT. A STAND-BY CREW SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON.
19. ANY PROPOSED ALTERNATE EROSION CONTROL MEASURES ARE TO BE RECOMMENDED BY THE ENGINEER OF WORK, FOR APPROVAL BY THE LAND DEVELOPMENT ENGINEER, PRIOR TO INSTALLATION.
20. FROM OCTOBER 1<sup>ST</sup> THROUGH APRIL 30<sup>TH</sup> OF EACH YEAR, CHAPTER 17.56 REQUIRES THAT ALL DENUDED SLOPE FACES BE PROTECTED FROM EROSION, AND THAT ALL SEDIMENT BE KEPT ON SITE. THE USE OF INDUSTRY STANDARD SLOPE PROTECTION AND SEDIMENT CONTROL METHODS ARE REQUIRED TO BE IN PLACE AND MAINTAINED 24 HOURS A DAY/7 DAYS A WEEK.
21. MATERIALS AND WASTE WITH THE POTENTIAL TO POLLUTE URBAN RUN-OFF SHALL BE USED WITH LABEL DIRECTIONS AND SHALL BE STORED IN A MANNER THAT EITHER PREVENTS CONTACT WITH RAINFALL OR CONTAINS CONTAMINATED RUN-OFF FOR TREATMENT AND DISPOSAL.
22. THE OWNER DESIGNATED 24-HOUR TELEPHONE NUMBER AND THE NAME(S) OF THE PERSON(S) RESPONSIBLE FOR EMERGENCY WORK APPEARS BELOW AND SHALL AT ALL TIMES BE POSTED IN A CONSPICUOUS PLACE ONSITE TO FACILITATE PUBLIC REPORTING OF PROBLEMS. (A TELEPHONE ANSWERING MACHINE OR ANSWERING SERVICE IS UNACCEPTABLE.)

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NAME

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24 HR. PHONE NUMBER

23. CONTRACTOR TO IMPLEMENT AND MAINTAIN ONSITE AT ALL TIMES A [STORMWATER MANAGEMENT PLAN (SWMP) OR STORMWATER POLLUTION PREVENTION PLAN (SWPPP)] IN CITY APPROVED FORMAT WHICH IS HEREBY INCORPORATED WITH THESE PLANS BY REFERENCE. SAID PLAN SHALL BE KEPT CURRENT AND REFLECTIVE OF CURRENT SITE CONDITIONS.

[For areas of disturbance over one acre add the following certificate: (reference <http://www.swrcb.ca.gov/stormwtr/construction.html>)

**STATE WATER RESOURCES CONTROL BOARD CERTIFICATE**

DEVELOPMENT OF THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF STATE WATER RESOURCES CONTROL BOARD (SWRCB) ORDER NO. 99-08 DWQ. NPDES GENERAL PERMIT NO. CAS000002. WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY. IN ACCORDANCE WITH SAID PERMIT, A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A MONITORING PROGRAM PLAN SHALL BE DEVELOPED AND IMPLEMENTED CONCURRENT WITH THE COMMENCEMENT OF GRADING ACTIVITIES AND A COMPLETE AND ACCURATE NOTICE OF INTENT (NOI) WILL BE FILED WITH THE SWRCB. A COPY OF THE ACKNOWLEDGEMENT FROM THE SWRCB THAT A NOI HAS BEEN RECEIVED FOR THIS PROJECT SHALL BE FILED WITH THE CITY OF VISTA WHEN RECEIVED; FURTHER, A COPY OF THE COMPLETED NOI FROM THE SWRCB SHOWING THE PERMIT NUMBER FOR THIS PROJECT SHALL BE FILED WITH THE CITY OF VISTA WHEN RECEIVED. (WDID NO.)

IN ADDITION, THE UNDERSIGNED AND SUBSEQUENT OWNERS(S) OF ANY PORTION OF THE PROPERTY COVERED BY THIS GRADING PERMIT NO. GP-\_\_\_\_\_, AND BY THE SWRCB ORDER NO. 99-08 DWQ, AND ANY SUBSEQUENT AMENDMENTS THERETO, SHALL COMPLY WITH SPECIAL PROVISIONS AS SET FORTH IN SECTION C.7 OF THE SWRCB ORDER NO. 99-08 DWQ.

\_\_\_\_\_  
OWNERS OF LAND

\_\_\_\_\_  
SIGNATURE OF LAND OWNER,  
CORPORATE OFFICER, GENERAL  
PARTNER OR PROPRIETOR

\_\_\_\_\_  
DATE

HYDROSEEDING INSTALLATION:

2,000 LBS/ACRE	100% WOOD FIBER MULCH
300 LBS/ACRE	16-6-8 COMMERCIAL FERTILIZER
ECOLOGY CONTROL	M-BENDER
140 LBS/ACRE	BETWEEN THE MONTHS OF OCTOBER AND MARCH –OR–
80 LBS/ACRE	BETWEEN THE MONTHS OF APRIL AND SEPTEMBER

PRIOR TO INSTALLATION, ALL CUT SLOPES SHALL BE SCARIFIED OR RIPPED HORIZONTALLY TO DEPTH OF 3 TO 6 INCHES

\* USE MIX ONE, MIX TWO, OR MIX THREE PER ATTACHED CRITERIA. \*

HYDROSEED MIX ONE

CONDITION: HIGH VISIBILITY, HIGHLY ORNAMENTAL AREAS (ADJACENT TO ROADWAYS, RESIDENTIAL SLOPES, PARK AREAS, ETC.). IN ADDITION, THIS MIX IS SUITED TO ALL SLOPE HEIGHTS. HOWEVER, DUE TO THE RELATIVELY SMALLER MATURE SIZE OF THE PLANT MATERIAL, IT IS ESPECIALLY SUITED TO SLOPES LESS THAN TEN FEET IN HEIGHT. IN THESE CONDITIONS, THE PLANT MATERIAL WILL NOT EXTEND MUCH BEYOND THE LIMITS OF THE SLOPE.

APPLICATION RATE

BOTANICAL NAME

Storm Water & Erosion Control NotesR8-1-04

NURSE CROP

3 LBS/ACRE  
3 LBS/ACRE  
3 LBS/ACRE  
3 LBS/ACRE

LOBULARIA MARITIMA 'CARPET OF SNOW'<sup>1</sup>  
LOBULARIA MARITIMA 'ROYAL CARPET'<sup>2</sup>  
ENCHOCHOLZIA CALIFORNICA  
LINUM GRANDIFLORUM 'RUBRUM'

PERENNIALS

9 LBS/ACRE  
5 LBS/ACRE  
6 LBS/ACRE  
2 LBS/ACRE

ATRIPLEX SEMIBACCATA  
GAZANIA 'PIXIE DELIGHT'<sup>3</sup>  
LIMONIUM PEREZII  
OENOTHERA CHEIRANTHIFOLIA

SHRUBS/TREES

2 LBS/ACRE  
3 LBS/ACRE  
4 LBS/ACRE  
3 LBS/ACRE

ACACIA SALIGNA  
MIMULUS PUNICEUS  
ENCELIA COLIFORNICA  
CISTUS CORSICUS

47 LBS/ACRE TOTAL

MINIMUM PURITY OF SEED – 95%

<sup>1</sup> CAN BE USED WITHOUT 'ROYAL CARPET' AT THE RATE OF 5 LBS/ACRE

<sup>2</sup> CAN BE USED WITHOUT 'CARPET OF SNOW' AT THE RATE OF 5 LBS/ACRE

<sup>3</sup> CAN BE SPECIFIED IN EITHER WHITE, ORANGE OR YELLOW, OR MIXED

HYDROSEED MIX TWO

CONDITION: MODERATE VISIBILITY (INTERIOR SLOPES OF COMMERCIAL AND INDUSTRIAL DEVELOPMENTS).

APPLICATION RATE

BOTANICAL NAME

NURSE CROP

3 LBS/ACRE  
3 LBS/ACRE  
3 LBS/ACRE  
2 LBS/ACRE

LOBULARIA MARITIMA 'CARPET OF SNOW'<sup>4</sup>  
LOBULARIA MARITIMA 'ROYAL CARPET'<sup>5</sup>  
ENCHOCHOLZIA CALIFORNICA  
LINUM GRANDIFLORUM 'RUBRUM'

PERENNIALS

14 LBS/ACRE  
8 LBS/ACRE  
9 LBS/ACRE  
7 LBS/ACRE  
3 LBS/ACRE

ERIOGONUM FASCICULATUM  
LOTUS SCOPARIUS  
ATRIPLEX SEMIBACCATA  
ATRIPLEX GLAUCA  
ARTEMISIA PYCNOCEPHALA

SHRUBS/TREES

2 LBS/ACRE  
3 LBS/ACRE  
5 LBS/ACRE  
2 LBS/ACRE  
2 LBS/ACRE

MIMULUS PUNICEUS  
ENCELIA COLIFORNICA  
VIQUIERA LACINIATA  
SALVIA CLEVELANDII  
SALVIA MELLIFERA

67 LBS/ACRE TOTAL

NOTE: FOR NON-IRRIGATE APPLICATIONS, INCREASE THE APPLICATION RATE BY 20% OF THE FOLLOWING SPECIES:

ERIOGONUM FASICULATUM  
ATRIPLEX GLAUCA  
ATRIPLEX SEMIBACCATA  
ENCELIA COLIFORNICA

NON-IRRIGATED APPLICATIONS REQUIRE THE PRIOR APPROVAL OF THE ENGINEERING DEPARTMENT

MINIMUM PURITY OF SEED – 95%

<sup>4</sup> CAN BE USED WITHOUT 'ROYAL CARPET' AT THE RATE OF 5 LBS/ACRE

<sup>5</sup> CAN BE USED WITHOUT 'CARPET OF SNOW' AT THE RATE OF 5 LBS/ACRE

### HYDROSEED MIX THREE

CONDITION: LOW VISIBILITY, OPEN SPACE AREAS

#### APPLICATION RATE

#### BOTANICAL NAME

#### NURSE CROP

10 LBS/ACRE  
3 LBS/ACRE

BROMUS RUBENS  
ENCHOCHOLZIA CALIFORNICA

#### PERENNIALS

10 LBS/ACRE  
8 LBS/ACRE  
10 LBS/ACRE  
8 LBS/ACRE  
2 LBS/ACRE

ATRIPLEX SEMIBACCATA  
LOTUS SCOPARIUS  
ATRIPLEX GLAUCA  
ATRIPLEX CAMESCENS  
HAPLOPAPPUS VENETUS

#### SHRUBS/TREES

3 LBS/ACRE  
3 LBS/ACRE  
3 LBS/ACRE  
5 LBS/ACRE

MIMULUS PUNICEUS  
BACCHARIS PILULARIS 'CONSANGUIENA'  
ENCELIA COLIFORNICA  
VIQUIERA LACINIATA

65 LBS/ACRE TOTAL

NOTE: FOR NON-IRRIGATE APPLICATIONS, INCREASE THE APPLICATION RATE BY 20% OF THE FOLLOWING SPECIES:

ERIOGONUM FASICULATUM  
ATRIPLEX GLAUCA  
ATRIPLEX SEMIBACCATA  
ENCELIA COLIFORNICA

NON-IRRIGATED APPLICATIONS REQUIRE THE PRIOR APPROVAL OF THE ENGINEERING DEPARTMENT

MINIMUM PURITY OF SEED – 95%



## CITY OF VISTA

### Storm Water Quality & Construction BMP Notes

THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE PERMIT CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN DIEGO REGION, ORDER NO. 2001-01, NPDES NO CA 50109758. (AVAILABLE AT THE FOLLOWING WEB ADDRESS:

[HTTP://WWW.SWQCB.CA.GOV/RWQCB9/PROGRAM/SD\\_STORMWATER.HTML](HTTP://WWW.SWQCB.CA.GOV/RWQCB9/PROGRAM/SD_STORMWATER.HTML)

THE NOTES BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMPS;

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT AND MUD ON ADJACENT STREET(S) DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY, AT THE END OF EACH WORKDAY, OR AFTER A STORM EVENT THAT CAUSES A BREACH IN INSTALLED CONSTRUCTION BMPS WHICH MAY COMPROMISE STORM WATER QUALITY WITHIN ANY STREET(S). A STABILIZED CONSTRUCTION EXIT MAY BE REQUIRED TO PREVENT CONSTRUCTION VEHICLES OR EQUIPMENT FROM TRACKING MUD OR SILT ONTO THE STREET.
2. ALL STOCKPILES OF SOIL AND /OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT FOR A PERIOD GREATER THAN SEVEN CALENDAR DAYS ARE TO BE COVERED. ALL REMOVABLE BMP DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
3. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS WHICH ARE TO BE POURED IN PLACE ON SITE.
4. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES OF WORKING ORDER AFTER EACH RUN-OFF PRODUCING RAINFALL OR AFTER ANY MATERIAL BREACH IN EFFECTIVENESS.
5. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
  - a. ALL GRADED SLOPES SHALL BE PLANTED WITH TREES, SHRUBS AND GROUND-COVERS.
  - b. GROUND-COVERS SHALL BE PERMANENT SPECIES PLANTED FROM LINERS OR FLATS AT 12" O.C. THE SELECTION OF THE GROUND COVER SHOULD BE FROM SPECIES THAT ARE COMPATIBLE WITH ADJACENT PROPERTIES.
  - c. PROVIDE 1 ONE GALLON SHRUB FOR EACH 100 SF OF SLOPE AND 1 FIVE GALLON SHRUB FOR EVERY 200 SF OF SLOPE. ON HIGHLY VISIBLE SLOPES, THE CITY PLANNER MAY REQUIRE ADDITIONAL SHRUBS TO BE ADDED.
  - d. PROVIDE TREES ON ALL SLOPES AT A RATE OF ONE 15 GALLON TREE PER 500 S.F. OF SLOPE ON ALL SLOPES 5' OR GREATER VERTICAL HEIGHT. ON ALL SLOPES 8' OR GREATER VERTICAL HEIGHT, PROVIDE ONE 15 GALLON TREE PER 500 S.F. OF SLOPE PLUS ONE 5 GALLON TREE PER EACH 1,000 SF OF SLOPE. ON HIGHLY VISIBLE SLOPES, THE CITY PLANNER MAY REQUIRE ADDITIONAL TREES TO BE ADDED.
  - e. TREES AND SHRUBS SHALL BE PLANTED IN STAGGERED ROWS TO SOFTEN THE SLOPE PLANE.
  - f. PROVIDE REINFORCED STRAW MATTING (SC150, MANUFACTURED BY NORTH AMERICAN GREEN 1-800-473-1965) OR A CITY APPROVED EQUAL ON ALL SLOPES 3:1 OR GREATER FOR EROSION CONTROL.
  - g. HYDRO SEEDING OF NATIVES IN LIEU OF FLATTED GROUND COVER MAY BE APPROVED AT THE DISCRETION OF THE CITY PLANNER WHEN REQUIRED SPECIES ARE NOT COMMERCIALY AVAILABLE IN CONTAINER OR FLATTED STOCK. SEED MIXES MUST CONTAIN THE PERCENTAGE OF EACH SEED TO BE USED AND APPLICATION RATE. THE APPLICATION MUST CONTAIN A BONDED FIBER MATRIX ADDITIVE FOR EROSION CONTROL.

6. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.