



Public Works Department

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Date of Revision: March 3, 2015

Land Development Booklet

General Information of Fees - Cost Estimates - Improvement Plan Checklist and Construction General Notes

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Section 1.0

Public Works Fee Summary

Effective April 9, 2015

Plan Check and Miscellaneous Fees

Plan Check fees are on a per sheet basis unless otherwise indicated by a minimum fee. Depending on the complexity of the plan or document, in addition to the minimum fee, hourly rates and additional costs are applicable. In the case of the Erosion Control, if the plans are included in the precise grading plan, then the grading plan check fee is used.

Map Checking Fee

Final Tract or Parcel Map..... \$1,800.00 first two sheets plus \$50.00 per lot

Public and Private Improvement Plan Check Fees

Street Plans..... \$1,800.00 first two sheets plus \$800.00 each additional sheet
 Sewer Plans..... \$1,800.00 first two sheets plus \$800.00 each additional sheet
 Water Plans..... \$1,800.00 first two sheets plus \$800.00 each additional sheet
 Storm Drain Plans..... \$1,800.00 first two sheets plus \$800.00 each additional sheet
 Other Improvement Plans..... \$1,800.00 first two sheets plus \$800.00 each additional sheet

Grading Plan Check Fee

Rough Grading Plans- Residential \$1,500.00 first two sheets plus \$300.00 each additional sheet
 Rough Grading Plans-Commercial/Industrial \$1,500.00 first two sheets plus \$300.00 each additional sheet
 Precise Grading Plans-Residential \$1,800.00 first two sheets plus \$300.00 each additional sheet
 Precise Grading Plans-Commercial/Industrial \$1,800.00 first two sheets plus \$300.00 each additional sheet

Erosion Control & Other Improvement Plan Check Fees

On-site Utility Plans \$1,800.00 first two sheets plus \$800.00 each additional sheet
 Demolition Plans \$1,800.00 first two sheets plus \$800.00 each additional sheet
 Horizontal Control Plans \$1,800.00 first two sheets plus \$800.00 each additional sheet
 Erosion Control Plans \$1,800.00 first two sheets plus \$800.00 each additional sheet
 Traffic Control Plans \$1,800.00 first two sheets plus \$800.00 each additional sheet

Landscape Plan Check Fee

Public Landscape Plans..... \$950.00 (minimum fee plus hourly rate)
 Private Landscape Plans \$950.00 (minimum fee plus hourly rate) plus \$25.00 per lot

As-Built Plans, Revisions, and Over 3rd Review

As-Built Plans..... \$630.00 (minimum fee plus hourly rate)
 Revisions..... \$1,000.00 (minimum fee plus hourly rate)
 Over 3rd Review Billable hourly rate for each reviewer

Reports, Agreements, and Covenants

Hydrology Reports	\$875.00 (minimum fee plus hourly rate)
Soils Report.....	\$885.00 (minimum fee plus hourly rate)
CC&R's	\$940.00 (minimum fee plus hourly rate, plus additional costs)
Bond Agreements	\$900.00 (minimum fee plus hourly rate)
Bond Calculation Review	\$500.00 (minimum fee plus hourly rate)
Declaration of Covenant for Parkway Landscape	\$600.00 (minimum fee plus hourly rate)
Encroachment License Agreement.....	\$1,200.00 (minimum fee plus hourly rate)
Traffic Studies	\$1,400.00 (minimum fee plus hourly rate, plus additional costs)
Miscellaneous Agreements.....	\$900.00 (minimum fee plus hourly rate)
Reimbursement Agreements	\$1,600.00 (each)
Outside City Utility Service Agreement.....	\$1,600.00 (each, 15% additional outside agency and/or consultant costs)

Miscellaneous Plan Check Fees

Miscellaneous Technical Document Plan Check Fees

Lot Line Adjustment	\$1,100.00 first two sheets plus \$50.00 per lot and/or parcel
Lot Merger.....	\$1,100.00 first two sheets plus \$50.00 per lot and/or parcel
Certificate of Correction	\$700.00 (minimum fee plus hourly rate)
Irrevocable Offers of Dedication	\$700.00 (minimum fee plus hourly rate)
Dedications (Easement Deeds & Grant Deeds)	\$700.00 (minimum fee plus hourly rate)
Quit Claim Deeds	\$700.00 (minimum fee plus hourly rate)
Legal Descriptions	Pass through fee of actual costs
WQMP.....	\$1,600.00 (minimum fee plus hourly rate)
SWPPP	\$725.00 (minimum fee plus hourly rate)
Waste Management Plan.....	
Remodel < 1,000 sf.....	\$150.00 (minimum fee)
Remodel > 1,000 sf.....	\$250.00 (minimum fee)
New Construction 1,000-3,000 sf	\$275.00 (minimum fee)
New Construction > 3,000 sf.....	\$350.00 (minimum fee)
New Construction Commercial & Industrial	\$500.00 (per 1,000 sf)
Miscellaneous Reports, Studies & Technical Documents	\$850.00 (minimum fee plus hourly rate)

Research

Engineering Record Research Request	\$120 Deposit, plus actual cost based on time spent at \$60.00 per hour
Utility Research Request	\$120 Deposit, , plus actual cost based on time spent at \$60.00 per hour

Hourly Rate for Engineering and Land Development Review

Plan Check.....	\$ Billable hourly rate for each Reviewer, consultant fees, pass through fees, attorney's fees or other additional costs.
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Miscellaneous Plan Check Fees

Permits Fees

Construction Permit plan check not required	\$130.00 each plus hourly inspection rate: \$137.00/hour (the inspection deposit is determined by Public Works)
Construction Permit plan check required	\$250.00 each plus hourly inspection rate: \$137.00/hour (the inspection deposit is determined by Public Works)
Clear and Grub Permit	\$130.00 each plus hourly inspection rate: \$137.00/hour (the inspection deposit is determined by Public Works)
Temporary Lane Closure Permits	
Partial Closure	\$130 each Permit
Full Closure	\$375 each Permit
Traffic Control	
Construction Truck Access Plan	No Fee

Incidental Fees

CD (to transfer research data)	\$25.00 each
Copies	\$0.25 per page (11x17 largest size available)

Additional Plan Checks

Plan check fees quoted above cover three (3) plan check reviews for the minimum fee. Additional fees are based on the billable hourly rate of each reviewer, time and material for additional plan check reviews.

The plan check time required for a project depends on the workload of the plan checkers and the complexity of the project. An approximate plan check time will be given, if requested, at the time of submittal of the plans.

Section 2.0

Public and Private Improvement Plan Information

2.1 Plan Check Submittal Application

Date: _____

Project Number: _____

Project Address (when applicable): _____

Engineer: _____

Developer: _____

Address _____

Address: _____

Contact: _____

Contact: _____

Phone: _____

Phone: _____

Email: _____

Email: _____

1. Submit to Public Works this application filled out along with the number of sets of plans and related items as shown in the table below. Items not relevant to the project submittal may be omitted (i.e. Final Map and related items, if no map is involved). Check the **"TOTAL SUBMITTED"** column for items submitted. When in doubt, include the item.
2. All plan submittals shall be on 24" x 36" bond paper, stapled and folded to 8½ X 11 using the City's Standard Title Block. Ultimately, final plans shall be submitted for signature on Mylar (0.4 ml). The City will not accept original plans on Sepia, Sepia Mylar, Vellum, Xerox Mylar, or stick-on applications.
3. Plan Check submittals must be complete. The Planning Division Approval Letter **MUST** be included to complete your submittal. Partial and/or Incomplete packages will not be accepted for plan check. You will be notified of incomplete submittals.

Total Needed	Total Submitted	Submittal Items
4		Approval Letter / Approval Resolution/Conditions of Approval - Required for first plan check
4		Site Plan
4		Rough or Precise Grading Plans (including Erosion Control Plan)
4		Parcel/Tract Map
2		Preliminary Title Report, not over 60 days old (also required for legal descriptions)
2		Record documents referred to in the title report
2		Map Traverse Calculations and Closures
2		Approved Tentative Map
1		Pertinent reference materials (i.e. deeds, recorded maps, etc.)
4		CC& R's
		Public and Private Improvement Plans
4		Street
4		Water
3		Sewer
3		Storm Drain
3		Other
4		Related Grading Plans
2		Referenced Water and Sewer Plans
2		Cross Section (when widening existing streets)
2		Reference Street Plans, minimum 300 feet off-site
2		Signing and Striping Plans
2		Traffic Signal Plans with special provisions
2		Hydrology/Hydraulic Study
3		Off-Site / On-Site Landscape Plans
4		Legal Descriptions for Easement Deeds, Dedications, etc. with Exhibits and Title Report
2		Traffic Study
2		Soils Report
2		WQMP and SWPPP and copy of NOI (where applicable)
		Other items not listed (add additional sheet if necessary)

Phased Development Submittals:

In cases where a master tentative tract map is divided into sub-tracts or phases, each sub-tract or phase shall be submitted as its own, separate set of complete plans. It should be complete on its own merit. Combining of improvement plans for sub-tracts or phases is not allowed, except for grading plans.

Subsequent Plan Checks:

For each subsequent plan check, the last set of redlined plans and the requested number of revised sets required by the plan checker shall be submitted. If these items are missing, your submittal will be returned, un-checked, until all required items are submitted.

Plan Content:

Enclosed are improvement plan checklists that are to be used as a guide in the preparation of your plans for both public and private improvements (street, sewer, water, stormdrain, etc). Should you have any questions, please feel free to contact Public Works.

2.2 Submission of Improvement Plans for Final Review and Approval

When there are no more comments and the plan check process is complete, the plan checker will ask the design engineer to submit the following:

1. The last set of the plan checker's redlined plans,
2. Original Mylar's of all plans wet-signed and stamped by the Civil Engineer,
3. One bond copy of all the originals, and
4. Additional plan check fees (if required) by fee calculation.
5. Fully executed subdivision agreement with performance, engineer's cost estimate and payment bonds
6. Copy of Final Map.

Note:

Original mylars will be routed (by Public Works) to several City divisions for signatures of approval. **Please allow at least one week to obtain the required approval signatures.** Permits will be issued when all approvals have been obtained, the developer and/or engineer has supplied five (5) signed copies of all plans to the City, the contractor has met all permit requirements, and the inspection deposit and permit fee has been received.

2.3 Revisions to Approved Improvement Plans and As-Built Plans

Revisions:

Revisions may be made to City-approved improvement plans, as follows:

Proposed revisions shall be drawn in red on a bond copy of the original plan. The redlined print and minimum plan check fee of \$1,000.00, are submitted to Public Works for review. The revision plan check is also subject to additional fees for the billable hourly of each reviewer, consultant costs and other applicable fees.

Upon approval of the revision(s), the engineer may check out the original plans.

After the original is revised, the engineer shall submit the revised original, the redline print and a bond copy of the revised original to Public Works for final approval.

If the engineer revising the plan is not the original design engineer, he/she shall draw a new signature block on the plan and wet-sign and seal the plan for the revisions that have been made. In all cases, the revision shall be noted in the revision block of the plans and the location of the revision shall be clearly shown on the plan.

As-Built Plans:

As-built plans shall be submitted and approved prior to filing a Notice of Completion for any project. As-built revisions shall be made on the original, signed plans per the procedures above.



**CITY OF UPLAND
PUBLIC WORKS DEPARTMENT
LAND DEVELOPMENT & TRANSPORTATION DIVISION**

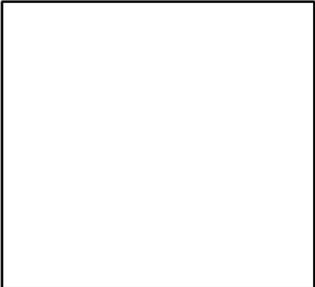
**COST ESTIMATE SUMMARY SHEET
Public Improvements**

BOND AMOUNT CALCULATION

Developer: _____
 Project: _____
 Location: _____

Item Description	Estimated Cost
1 . Street Improvements	\$ -
2 . Sewer Improvements	\$ -
3 . Water Improvements	\$ -
4 . Drainage Improvements	\$ -
5 . Traffic Improvements	\$ -
6 . Miscellaneous	\$ -
Grand Total	\$ -
20% Contingency	\$ -
Bond Amount	\$ -
Faithful Performance (100%)	\$ -
Labor and Materials (50%)	\$ -
Final Monuments (Cash Deposit required for monuments)	\$ -

Estimated By: _____
 RCE#: _____
 Date: _____



Bond amounts will be calculated by the Developer's Engineer and reviewed by the Public Works Department. Inspection fee deposits shall be paid prior to issuance of permit.

2.5

**Preliminary Cost Estimate Form for
Street Improvements**

Developer: _____

Project: _____

Location: _____

Street Items	Quantity	Unit	Price	Amount
Roadway Excavation				\$ -
1. Projects with Grading Plan area X 0.50' (hinge point to hinge point) (_____ SF)		CY	\$ 15.00	\$ -
2. Projects without Grading Plan road area and side slopes to daylight. Cut (C) = Fill (f) =				\$ -
(a) Excavate & Fill		CY (c or f)	\$ 4.00	\$ -
(b) Excavate & Export		CY (c -f)	\$ 1.10	\$ -
PCC Curb and Gutter 6"		LF	\$ 14.00	\$ -
PCC Curb and Gutter 8"		LF	\$ 16.00	\$ -
PCC Sidewalk		SF	\$ 7.00	\$ -
PCC Cross Gutter/Spandrel		SF	\$ 10.00	\$ -
PCC Curb Only 6"		LF	\$ 10.00	\$ -
PCC Curb Only 8"		LF	\$ 12.00	\$ -
Rolled Curb		LF	\$ 15.00	\$ -
PCC Pavement		SF	\$ 10.00	\$ -
Ribbon/Alley Gutter		LF	\$ 15.00	\$ -
Wheelchair Ramp (ADA Compliant)		EA	\$ 2,000.00	\$ -
Drive or Alley Approach		SF	\$ 10.00	\$ -
Asphalt Concrete (144 lbs/ft ³)		TON	\$ 95.00	\$ -
AC Patch-Trench (Match Existing)		SF	\$ 5.00	\$ -
Grind & AC Overlay @ 0.50 inch		SF	\$ 4.00	\$ -
Aggregate Base CL II		CY	\$ 55.00	\$ -
AC Berm		LF	\$ 14.00	\$ -
Street Lights Underground + Trench (Standard Marbelite)		EA	\$ 6,000.00	\$ -
Street Lights Underground + Trench (Decorative)		EA	\$ 7,000.00	\$ -
Install Barricades		LF	\$ 110.00	\$ -
Remove Barricades		LF	\$ 10.00	\$ -
Remove AC Pavement		SF	\$ 2.00	\$ -
Remove PCC Curb		LF	\$ 10.00	\$ -
Adjust Sewer Manhole to grade		EA	\$ 500.00	\$ -
Adjust Water Valve to grade		EA	\$ 300.00	\$ -
Sawcut		LF	\$ 2.00	\$ -
Decorative Concrete		SF	\$ 12.00	\$ -
Underwalk Drain		EA	\$ 1,800.00	\$ -
Parkway Trees		EA	\$ 350.00	\$ -
Parkway Landscape and Irrigation		SF	\$ 0.79	\$ -
Install Chain Link Fence		LF	\$ 16.00	\$ -
Irrigation Backflow Prevention Assembly (w/ enclosure)				\$ -
Relocate Power Pole		EA	\$ 10,000.00	\$ -
Total for Street Improvements				\$ -

By: _____

Street Drawing Number(s): _____

2.9

**Preliminary Cost Estimate Form for
Traffic Improvements**

Developer: _____

Project: _____

Location: _____

Traffic Improvements	Quantity	Unit	Price	Amount
4" Painted Broken Stripes		LF	\$ 2.00	\$ -
4" Painted Double Solid Stripes		LF	\$ 0.50	\$ -
6" Painted Bike Lane Stripes		LF	\$ 0.70	\$ -
Painted One-Way, No Passing		LF	\$ 0.40	\$ -
Painted Two-Way, Left Turn Lane		LF	\$ 0.90	\$ -
Painted Pavement Markings		SF	\$ 3.00	\$ -
8" Thermoplastic Channelizing Line		LF	\$ 2.00	\$ -
12" Thermoplastic Crosswalk & Limit Line		LF	\$ 3.00	\$ -
Thermoplastic Pavement Markings		SF	\$ 4.00	\$ -
Street Name Sign & Post		EA	\$ 300.00	\$ -
Stop Sign & Post		EA	\$ 300.00	\$ -
Road Sign on existing pole/post (One Post)		EA	\$ 200.00	\$ -
Road Sign on existing pole/post (Two Post)		EA	\$ 300.00	\$ -
Street Sign (Mast Arm Hanger Method)		EA	\$ 500.00	\$ -
Remove Painted Stripes & Pavement Markings		SF	\$ 3.00	\$ -
Remove Thermoplastic Stripes & Pavement Markings		SF	\$ 5.00	\$ -
Traffic Signal & Lighting - New Installation		LS	\$ 300,000.00	\$ -
Traffic Signal & Lighting - Modification		LS	\$ 200,000.00	\$ -
Type E - 6' Round Signal Loops		EA	\$ 600.00	\$ -
Type D - 6' Square Loops with bike detection zone		EA	\$ 800.00	\$ -
Install Pull Box (#5)		EA	\$ 500.00	\$ -
Install Pull Box (#6)		EA	\$ 700.00	\$ -
Install Pull Box (#6E)		EA	\$ 800.00	\$ -
2" Conduit		LF	\$ 25.00	\$ -
3" Conduit		LF	\$ 30.00	\$ -
3" PVC Conduit (for Fiber Optic Cable only)		LF	\$ 30.00	\$ -
24 Single Mode Fiber Optic Cable		LF	\$ 4.00	\$ -
12 Pair Interconnect Cable		LF	\$ 5.00	\$ -
Bike Loops		EA	\$ 300.00	\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
Total for Traffic Improvements				\$ -

By: _____

Drawing Number(s): _____

2.10

**Preliminary Cost Estimate Form for
Miscellaneous Improvements and Final Monuments**

Developer: _____

Project: _____

Location: _____

Miscellaneous Items	Quantity	Unit	Price	Amount
Sub-total for Miscellaneous Improvements				

By: _____

Miscellaneous Drawing Number(s): _____

Final Monument Items	Quantity	Unit	Price	Amount
Sub-total for Final Monuments				

By: _____

Final Map Number(s): _____

2.11

Street Improvement Plan Check List (Public & Private)

Project No. _____ Plan No. _____ Checked by: _____

Plan Check Deposit: _____ Receipt Number: _____ Date: _____

Please note that street improvement plans and profiles are required for public and private street improvements.

I. Title Sheet

1. Vicinity Map with project location and north arrow
2. General Notes (list all improvement plans used as a reference in preparation of those plans in the general notes)
3. Construction Notes with quantity estimate
4. Index Map with Street Names (show flows around tract if necessary)
5. Legend of symbols and abbreviations
6. City of Upland bench mark, basis of bearings
7. Name, address, and telephone numbers of the developer/owner, civil engineer, and soils engineer
8. Project and Plan Numbers in the lower right corner of the plan
9. City-approved title/signature block (tract or parcel #, CUP, SP, etc.)
10. Civil Engineer's seal and signature
11. Underground Alert Notice
12. Private Engineer's note
13. "Survey Monument" and "Contractor's Responsibility for Safety" notes
14. Typical section(s) for all adjacent streets
15. Review Conditions of Approval and complete all requirements.
16. Confirm that plan check fees have been paid prior to permit issuance.
17. Declaration of Engineer of Record

II. Plan Sheets

1. Review Conditions of Approval for requirements.
2. North arrow (pointing to the top or to the right of the sheet)
3. Stationing shall increase to the north or east and conform to any previous/referenced plans.
4. Provide station equations and street names at intersections.
5. Street names shown on all streets, show street name signs with construction note (CU-G-2, 3 and 4)
6. Station and elevation at EC's, BC's, ECR's, BCR's, beginning and end of improvements, parkway drains, catch basins, etc.
7. Scale bar on all sheets 4 inch
8. Show bearings on all streets and cross-streets, radial bearing on centerline of all catch basins, etc. along a curve (CU-D-4). Curve or line table may be used.
9. Lot lines, lot numbers, and lot frontage dimensions
10. Show City limit lines, if applicable.
11. Curb return data (delta, radius, tangent, length); grade of intersecting street
12. Centerline curve data, and short and long side of curbed section
13. Label curb types, cross gutters, and all structures.
14. Note connections to existing improvements.
15. Transitions (length and stations) shall be minimum 2:1 for widening traffic and 10:1 for merging traffic on low speed roads. For roads with speed greater than 35 mph, tapers shall be per Caltrans standards. Major streets may require larger tapers, Type "L" markers 10 feet on center along taper (CU-G-1)
16. Show improvements to be constructed with solid lines. Existing or future improvements with dashed lines and proper label. Reference adjacent developments
17. Provide construction notes applicable to each sheet.
18. Obtain and show any required easements. Letters of permission are required for any grading and/or drainage beyond the project boundary.

Street Improvement Check List (Public & Private) (Continued)

19. Show existing and/or proposed ROW and topography a minimum of 100 feet beyond proposed improvements.
20. Show driveways and driveway widths.
21. Provide intersection site distances.
22. Confirm utility crossings.
23. Provide match lines and identical points on consecutive sheets. Provide reference to other sheets.
24. Minimum 200-foot centerline radius on residential streets, unless prior approval obtained
25. Curb returns shall be 35-foot radius at secondary or major streets, all others shall be 25-foot radius.
26. Provide wheel chair ramps at all curb returns
27. Provide ADA compliant right-of-way and improvement widths.
28. Show all existing above-ground and underground facilities with a note as to their disposition (pipelines, trees, power poles, etc.).
29. Provide details of all improvements, if not City-standard.
30. Show limits for each curb transition.
31. Use splash curbs on all downhill side of curb returns or drive approaches along major water carrying streets. Use 12" high splash curb when the curb is 10" or greater and 18" when curb is less than 10" high.
32. Show limits of new paving, old paving, overlay and removal. Use appropriate shading to delineate areas (CU-D-1). Select streets are to be built by staged construction (CU-R-1).
33. Right-of-way adjacent sidewalk is standard. If curb-adjacent sidewalk exists within block, continue sidewalk to street intersection and transition through return back to right-of-way adjacent sidewalk. Sidewalk shall be 6 feet wide in business districts (CU-P-7, CU-R-5, and CU-P-3).
34. Provide detail and direction of flow with arrows of cross gutter and aprons (CU-D-3, CU-R-3).
35. Provide flow line elevations on all BCRs, ECR's and on the flow line of cross gutters (CU-D-3, CU-R-6).
36. If cross gutter has upstream drainage area greater than 1,000 feet in length, provide 10-foot wide cross gutter. Otherwise it shall be 6-foot width. Show width type on plans (CU-R-3)
37. No mid-block cross gutters or cross gutter across major through streets
38. On match-up paving situations, minimum cross slopes are to be 1% for driving lanes, 3-4% for shoulders, maximum is 2% driving lane & 6% shoulders. Cross slopes to be computed from lip of gutter; bird baths shall be eliminated.
39. Show the location, length, elevations & cross section of any Asphalt Berm to be constructed.
40. Show any required traffic striping or any striping that will need to be replaced due to construction.
41. Show location, size & variety of all existing street trees. Show all proposed street tree(s), variety & quantity on each street. Tree varieties for select streets are shown on CU-P-6. For streets not listed or new streets, the tree variety may be obtained from the Public Works Department. Street tree spacing is 40 feet ± depending on tree type.
42. Saw cut EP to straight line on match-in paving situations, or remove redwood headers.
43. Barricade required at temporary dead end streets or sidewalks.
44. Show any required "raised traffic marker" spacing diagram.
45. 2" x 4" redwood headers required at edges of paving that are not adjacent to gutters or existing paving, except for the 2:1 and 10:1 tapers.
46. All removals of paving or overlays within existing traveled way shall be per standard (CU-Z-3).
47. No driveways allowed on the south side of the street opposite a "T" intersection
48. Block walls connected with back-up lot treatment will be placed at the top of any slopes adjacent to the street. Wall details (other than standard garden walls) are required. Maximum wall height shall be 6 feet.
49. Verify that no proposed drive approaches cover any existing or proposed sewer or water laterals. All drive approaches shall be shown and noted (CU-P-4, CU-P-5).
50. At entrances to a PRD from major streets, provide a median on the private street for efficient traffic flow.
51. A slope letter is required if the cut or fill at end or side of a street adjacent to the subdivision boundary exceeds one-foot (2:1 slope maximum).
52. Alley approaches with a center gutter requires an under sidewalk drain. Show flowline elevations on plan (CU-R-4, CU-P-3).
53. Check grading plan for interior streets on all PRD.
54. Check subdivision boundaries for problems such as blocked drainage from or discharging to adjacent lands or conflicts between existing and proposed improvements.

Street Improvement Check List (Public & Private) (Continued)

55. Check for ponding on streets or at cross gutters.
56. Show irrigation facilities. Note areas where irrigation lines may be affected
57. Show locations of proposed fire hydrants and water valves, and manholes to be adjusted to grade.
58. Show the existing streetlights in the area on both sides of the street & the distance from the project limit. Submit this information to the Traffic Engineer to determine if any new lights are required.
59. A minimum of a 12' paved access is required to all public facilities. Access shall be clear of all obstructions including roof overhang
60. $\frac{3}{4}$ " plywood false bottoms to be placed in all sewer manholes within the construction area
61. Provide trap at first manhole downstream of proposed improvements.
62. If applicable, check for designated Handicapped Route through the project.

III. Profile

1. Scale (horizontal and vertical). Show datum elevations at both ends of sheet.
2. Profile or centerline of existing and perimeter streets and existing ground line shall be dashed.
3. Provide stationing at bottom of profile.
4. Provide names and stationing of intersecting streets.
5. Label and show stations and elevations at the beginning and end of all curb returns, vertical curves, transition sections, grade breaks, and beginning and end of improvements.
6. Indicate lengths of curb returns and lengths of horizontal curves. Show to true scale. $\frac{1}{4}$ delta points to be shown on all returns with elevations; show intersecting street grade %
7. Minimum fall around curb returns shall be 0.4%. Show profile going into & out of return. Check shoulders around returns for excessive slope (maximum 6%). Check elevations using an approved method.
8. Use straight grade for cross gutters (CU-R-6). Maximum 2.5% coming into cross gutter. PI for vertical curve minimum of 50' back from flow line of cross gutter. On streets where the grade is 5% or greater, a grade of 4.5% into cross gutter is acceptable.
9. If curbs are variable height, show TC and FL elevations, flow line profile with grade
10. Label all grade lines and profiles. Also show size of curb face (CU-D-5).
11. Profile of existing centerline or elevations at least every 50 feet.
12. Show profile of existing EP with elevations at least every 50 feet.
13. Show profile of existing ground at property line.
14. Check that all slopes are shown correctly compared to elevations given.
15. Show connection with or future design to existing improvements, along with existing elevations. Show grade on existing improvements.
16. Extend profiles 300' beyond end of improvements necessary to justify proposed grades
17. Show profile of finished centerline & top of curbs (solid line), show grades (0.4% minimum) (CU-D-5)
18. Show profile of $\frac{1}{4}$ crown if necessary. Show grade.
19. Grade of major & secondary streets should not exceed 8%, residential streets should not exceed 16%.
20. Check elevations shown in profile against those shown in plan view.
21. Check difference between T.C. and centerline against what typical section shows.
22. Use vertical curves for all grade breaks in excess of 0.6% (CU-D-5). Avoid non-symmetrical vertical curves.
23. Show true length and true grade of horizontal curves.
24. Show tangent grades for vertical curves, reverse or compound vertical curves.
25. Show P.I. elevations for vertical curves (CU-D-5).
26. Elevations every 50' (or fractional part thereof) on vertical curves.
27. On "grade to drain" situations, check for sufficient elevations and stations to allow grading to be done (critical where grading is to be done in flat areas).
28. Check through streets for drivability.
29. Show transitions between different curb heights and types.
30. If future curb is to go over channel, etc., check to see there will be adequate clearance between bottom of deck and top of channel.
31. Design speeds: residential streets 25 mph, secondary streets 35 mph, major streets 45 mph
32. Show structures to scale (catch basins, etc.). Note critical flow line elevations (CU-D-5).

Street Improvement Check List (Public & Private) (Continued)

33. Show any existing or proposed underground facilities that may conflict or enter into the design and construction of the proposed improvements.
34. Show existing or proposed flows coming into or out of new improvements.
35. Show H.G.L. to nearest 0.1' in profile. Show "Q" in streets into catch basins and into storm drain system and designate Q10, Q50, etc. State any flow-by at catch basins.
36. Catch basin water surface elevations shall be 6" below gutter flow line.
37. For knuckle or street curve widening, the widened portion shall drain to the gutter flow line at a minimum slope of 2%.

IV. Drainage and Miscellaneous

1. Submit drainage calculations, including hydrology maps for pre- and post-developed conditions.
2. Check to see if new street section will carry same flow as the existing street section (critical where there is an existing ditch running along street) without diverting flow across centerline
3. $N=0.20$ on residential streets (with driveways, parked cars, etc), $N=0.15$ on major streets (no driveways, little or no parking, etc)
4. Check drainage structures for capacity. Minimum velocity at two feet per second for all underground drainage facilities. Hydraulic calculations submitted by Registered Engineer shall include catch basin sizing calculation(s).
5. Note size, length & "D" strength or gauge for drainage pipe. Any CMP shall be asphalt coated & lined.
6. Sump catch basins shall be designed for a 50-year storm, underground storm drain systems designed for a 10-year storm & open channel designed for 100-year storm events. Sump conditions require a secondary overland overflow to prevent flooding of property should catch basin or storm drain become blocked.
7. Carry 10-year storm between curbs and 100-year storm between right-of-way lines.
8. Grate catch basins will be bicycle proof.
9. No cross gutters where there are existing storm drains to tie into.
10. No under sidewalk drains where there are existing storm drains to tie into.
11. Is a letter required for the Department of Real Estate about any possible flooding of lots on tract?
12. Are any block walls, ditches, etc. needed along tract boundary to prevent flooding (overland, from ditches or large water carrying streets)?
13. Does proposed drainage system fit into City's master storm drain plan?
14. Check for need of cutoff walls, energy dissipators, etc. at the outlets & headwall or aprons at inlets.
15. Storm drain easements (12-foot minimum width) shall not be centered on property lines. Storm drains shall not be located on property lines.
16. Manholes are required at angle points in storm drains and located in convenient area for access.
17. If the irrigation line is not steel & it is to remain in service, it shall be encased in concrete if the line has less than 30" of groundcover. If a line is relocated, it will be replaced with steel irrigation pipe in any traffic areas. Abandoned lines are to be removed or crushed in place.
18. Show disposition for stand pipes or weir boxes. Note those that are to be removed or reconstructed. Show details of any re-construction.

2.12

Street Light Criteria

In most cases, Southern California Edison (SCE) Company owns the street lights. The developer is responsible for plotting street lights on the street improvement plans using the criteria below. The City will approve the location of the street lights during the plan checking process.

I. Guidelines

1. The engineer shall plot all existing street lights, within 300-feet of the project limits, on the street improvement plans.
2. The engineer shall plot all proposed street lights on the street improvement plans
3. All streetlights must be called out with the appropriate construction note. The construction note shall contain information regarding the bulb specifications, pole type, pole height, and length of mast arm. A sample note is shown below.
4. Street lights shall be placed a minimum of 15-feet from all trees.
5. The developer/engineer must submit the approved street light locations to SCE (in a timely manner) to prepare the Lighting Plans. All fees and material costs shall be paid per SCE requirements.
6. Once the appropriate permits have been issued, the contractor shall install the conduit per the approved City street plans and SCE plans.
7. SCE will install cables through the conduit and connect the streetlights
8. The City Inspector will approve the installation of the lights and conduit
9. The City Engineering Division will request SCE to energize the streetlights

II. Streetlight Spacing Criteria

Streetlights will be staggered on each side of the street using the below criteria.

Street Type Width from CF to CF	Light Spacing (In feet)	Light Pole Specifications	Light Specifications	
			Lumens	Watts
Residential Street 36-ft	125' to 130' 150' to 160'	Standard Concrete Pole	4,000 5,800	50 w 70 w
Collector Street 40 ft to 44ft	140' to 150'	Standard Concrete Pole	5,800	70 w
Secondary Highways 64' to 68'	90' to 100'	Standard Concrete Pole	9,500	100 w
Major Highways 68' and above	100' to 125'	Standard Concrete Pole	16,000	150 w
Foothill Boulevard Euclid Avenue**	135' to 150'	Ameron Corsican pole, pole color code 32, globe to be 12% white	Twin King 118	150 w

III. Miscellaneous

Foothill Boulevard, portions of Euclid Avenue: All new lights installed on Foothill Boulevard and portions of Euclid Avenue, will be decorative nostalgic lights. A sample construction note for a Foothill Boulevard light is as follows: "Install Twin King 118, 150 watt LED luminaries on Ameron Corsican Pole; globe will be 12% white, pole color code 32."

Sample street light construction note for standard SCE lights: "Install xx watt LED Street Light on x' mast arm of Standard Concrete Pole".

Upland Town Center: Please contact City Staff.

2.13

Storm Drain Improvement Plan Check List (Public & Private)

Project No. _____ Plan No. _____ Checked by: _____

Plan Check Deposit: _____ Receipt Number: _____ Date: _____

I. Title Sheet

1. Vicinity map with project location and north arrow
2. General notes (list all improvement plans used as a reference in preparation of those plans in the general notes)
3. Construction notes / quantity estimate
4. Index Map
5. Legend of symbols & abbreviations
6. City of Upland Benchmark and basis of bearing
7. Name / address / phone number of owner, developer, civil engineer and soils engineer
8. Project and plan number in lower right hand corner
9. City approved title/signature block (Tract or Parcel No., CUP, SP, etc.)
10. Civil Engineer's signature & seal on each sheet
11. Underground Service Alert notice
12. Private Engineer's note
13. "Survey Monument" note and "Contractor's Responsibility of Safety" note
14. Review conditions of approval and complete all requirements.
15. Check that all plan check fees have been paid prior to permit issuance.
16. Declaration of Engineer of record.

II. Plan Sheet

1. Scale. Show horizontal scale near north arrow.
2. North arrow (pointing to the top or to the right of the sheet)
3. Necessary easements (width varies depending on depth and diameter)
4. Show existing improvements and dimensions with dashed lines, along with plan reference.
5. Show existing pipelines, irrigation lines, or structures, power poles, or trees, etc., in right-of-way and include note as to their disposition if encroaching. Show existing underground structures that may conflict with, or enter into, the design of proposed improvements.
6. Show improvements to be constructed with solid lines. Note connections to existing improvements.
7. Show improvement details if not City-standard.
8. Stationing to conform with established stationing on any previous plans. Stationing to be south to north or west to east.
9. Lateral should be 45° or less entering mains (90° O.K. for smaller diameter)
10. Centerline station for catch basin, show width, depth and velocity
11. Check historical drainage patterns.
12. Show stations at even 100' intervals
13. Construction notes
14. Lot lines, lot numbers and frontage dimensions
15. Cross check plan & profile stations and elevations
16. Curve data
17. Stations and lengths
18. Stations at EC and BC, and at beginning and end of improvements.
19. Utility crossings
20. Bearings of all street centerlines, intersecting streets, laterals and mains. Radial bearings on centerline of all catch basins, etc., on a curve. Use table of curve and lines
21. Street ROW widths
22. Check clearance of all parallel utilities
23. Check rip rap requirements
24. Check headwalls
25. Junction structure required for diameter greater than or equal to 36", if less than 36", full junction structure not required

Storm Drain Improvement Checklist (Public & Private) (Continued)

26. Minimum cover 30" without special permission
27. Check street capacities
28. Check catch basin sizes
29. A minimum of 12' paved access shall be required to all public facilities. Access shall be clear of obstructions (including roof overhang)
30. Provide 4 inch bar scale

III. Profile

1. Scale, both horizontal and vertical.
2. Show datum elevations at both ends of sheet.
3. Existing ground shall be dashed line and labeled accordingly.
4. Profile of finish surface at centerline of storm drain. Existing surface for open channels.
5. Manhole rim elevations
6. Utility crossings with top or bottom of pipe elevations depending on location of crossing
7. For pipes, show size, length and "D" strength for each section.
8. Show HGL to the nearest 0.1' plotted and labeled accordingly.
9. Show connection with or future design to existing improvements, along with existing elevations. Show grade on existing improvements.
10. Check minimum grade on storm drain pipe (0.5% minimum preferred, may allow flatter slope under certain conditions)
11. Station / elevation at beginning and end of all structures
12. Show stationing at bottom of profile at heavy lines.
13. Hydraulic data - Q100, V for each pipe section
14. Station of centerline on manhole
15. Match lines with station, elevation and sheet reference
16. Names and stationing of intersecting streets
17. Maximum manhole spacing (varies depending on pipe size)
18. Collar required for change in slope greater than 10%.
19. Check plan stations with profile stations
20. Show structures to scale (catch basins, junction structures, etc.). Note critical flow line elevations.
21. Stationing of centerline on all streets
22. Profile all laterals.
23. Velocity greater than or equal to 20 fps, special cover pipe is required using $f'c = 4,000$ psi concrete
24. Maximum velocity is equal to 45 fps using $f'c = 5,000$ psi concrete
25. Maximum water surface in catch basin shall be 6" below inlet FL elevation.
26. No decrease in pipe size downstream without prior approval.
27. V_n/V_c should be less than .9 or greater than 1.2
28. Safety ledge required in manholes deeper than 20 feet.
29. Show flow line of local depression at catch basins.

IV. Miscellaneous - Engineering Directive ED-S-1

Street Drainage Criteria

1. N/S streets: Q25 in curbs, Q100 in R.O.W.
2. E/W streets: Q50 in curbs, Q100 in R.O.W.
3. E/W streets with drainage areas greater than 80 acres & a slope less than 1% shall have a level street section.
4. For all arterial (and selected collector) streets, a minimum 10" curb face is required.

Storm Drain Pipe Criteria

1. Public drainage pipes shall be Reinforced Concrete Pipe (R.C.P.). HDPE pipe requires approval from the Public Works Director.

Storm Drain Pipe Criteria (continued)

2. N/S street minimum pipe capacity shall equal Q10 from the tributary area. Combined street and pipe capacity shall contain Q25 in curbs and Q100 in R.O.W.
3. E/W street minimum pipe capacity shall equal Q25 from tributary area. Combined street and pipe capacity shall contain Q50 in curbs and Q100 in R.O.W.
4. Minimum pipe size is 15" diameter and 11" x 18" arc pipe
5. Curb inlet openings shall be 1½ times the area required by the storm drain incremental capacity. Exceptions may be granted for tributary areas greater than 200 acres.
6. If street grade is greater than 2%, angled or skewed, openings (not parallel) to the roadway are preferred.

Sump Condition

1. Minimum pipe capacity sized for Q25. Area of inlet opening shall be two times the area required for the Q25 capacity.
2. A Q100 overland flow conveyance is required. Pad elevations shall be one foot above Q100 high water mark.

2.14

Sewer Improvement Plan Check List (Public & Private)

Project No. _____ Plan No. _____ Checked by: _____

Plan Check Deposit: _____ Receipt Number: _____ Date: _____

I. Title Sheet

1. Vicinity map with project location and north arrow
2. General notes (also, list all the improvement plans used as reference in preparation of those plans in the general notes)
3. Construction notes with quantity estimate
4. Index map
5. Legend of symbols and abbreviations
6. City of Upland benchmark and basis of bearing
7. Name/address/phone # of developer/owner, civil engineer and soils engineer
8. Project number and plan number in lower, right corner of plan
9. City approved title/signature block (tract or parcel number, CUP, SP, etc.)
10. Civil engineer's seal and signature
11. Underground alert notice
12. Private engineer's note
13. "Survey Monument" note and "Contractor's Responsibility of Safety" note
14. Review conditions of approval and complete all requirements
15. Check that plan check fees have been paid prior to permit issuance
16. Declaration of Engineer of record

II. Plan Sheet

1. Horizontal (1": 40') and verticals (1":4') minimum scales in plan and profiles sections
2. Bearings of all street centerlines shown
3. Stationing to conform with stationing on any existing plans on file
4. Identical stationing and elevations on consecutive sheets
5. Stationing of structures and BC and EC of all curves
6. Stations at beginning and end of improvements
7. North arrow shall be shown pointing up to the right
8. Show existing topography
9. All plan sheets to have house lateral location (design station and as-built station)
10. Show all water laterals
11. Show all existing pipelines, irrigation lines, structures, power poles, trees, fire hydrants, etc. in right-of-way or immediately adjacent to right-of-way
12. All existing and proposed utilities must be shown, labeled and dimensioned
13. Show existing, proposed and future right-of-way and improvement widths. Should conform to street improvement plan
14. Lot lines, frontage distances and lot #'s same as record map. Label property and map boundary lines
15. Show existing improvements and dimensions with dashed lines
16. All drawing references must be noted on plan
17. Show details of all improvements if not City standards. For all standard improvements, show standard drawing number. Check standard drawings for those dimensions shown on plans
18. Show all manholes to be adjusted to grade
19. Construction notes shown and numbers checked against indicated improvements
20. Street names shown
21. If connecting to an existing sewer, show flow line elev.'s and distance to the nearest manholes (both directions)
22. If sewer is in an easement, show location of easement (do not center on lot lines)
23. Location of new sewer to be at centerline for new streets. Pipe shall be V.C.P. pipe
24. Stationing shall be along true length of sewer, beginning at centerline of lowest manhole and increasing upstream
25. All sewer mains shall be vitrified clay type or C.I.P.

Sewer Improvement Checklist (Public & Private) (Continued)

26. Minimum separation between sewer and water lines shall conform to City standards and State Health Code
27. Minimum 8" public sewers.
28. Laterals are to be extended to the property line and stationed. The minimum slope is 2% with a minimum cover of 4 feet
29. No laterals to be connected to manhole, unless approved by the Public Works Director
30. No laterals directly opposite each other, minimum lateral separation shall be 2 feet
31. For all lateral installations, a cleanout shall be installed at grade level, on private property, just behind the city R.O.W.
32. Manhole or cleanout required at end of all sewers (including temporary terminus)
33. Maximum manhole spacing shall be 350'
34. Maximum distance between manholes and cleanouts shall be 150' with no more than 3 connections
35. Sewers to be constructed to project boundaries within the public right-of-way
36. Sewer laterals to conform with City standards
37. Show detail for re-channelizing bottom of existing manholes where required
38. No vertical curves in sewer, grade breaks only at manholes
39. Where a sewer lateral is the same size as the sewer main, it shall be connected with a manhole
40. Under no circumstances will any sewer be allowed to pass under any buildings or under driveways without prior approval of the Public Works Director
41. Water mains are to be located 6' west of east curb face for north/south streets and 6' north of the south curb face for east west streets
42. Show city limit lines
43. Public sewer pipe to be C.I.P. or V.C.P.
44. Check if backflow device is required (needed if next upstream manhole has a rim elevation greater than the finished floor elevation of the building)
45. A minimum of 12' paved access shall be required to all sewer manholes. Access shall be clear of obstructions (including roof overhang)
46. $\frac{3}{4}$ " plywood false bottoms to be placed in all sewer manholes within the construction area
47. Provide trap at first manhole downstream of proposed improvements.
48. For tracts, show sewer and water as-built table. This table should show the proposed lateral stations and a column for the as-built locations, and a column to reflect when a sewer backflow valve is required. Backflow device is required when downstream manhole elevation is higher than pad elevation.
49. Provide 4 inch bar scale

III. Profile

1. Scale both horizontal and vertical
2. Show 100' stationing at bottom of profile
3. Names and centerline stationing of intersecting streets
4. Label and show connection to existing sewer, existing elevation and grade. Denote existing elevation and grade with parenthesis. A note to verify elevation of existing sewer flow line prior to construction
5. Label all profiles
6. Profile of finished centerline surface
7. Sewer grade correctly shown
8. Label and show sta.'s and elev.'s at end of sewer, at crossings, rim and inverts of manholes and cleanouts
9. Show size and material of sewer main
10. Show location and bottom or top elevations of all crossings, parallel pipes or structures that might enter into the design of the sewer
11. Do elevations in profile and plan section match?
12. Are profiles and elevations the same on each sheet or section of match lines?
13. Minimum depth to top of sewer is 6'; minimum pipe cover is 5'
14. Compare design to existing plans. Reference on drawing if they exist.
15. 0.2 foot drop between flow line of inlet and outlet at manholes. Flow line of side inlets shall be 0.3 feet higher than outlet
16. Check sewer profile and grade (Minimum grade 8" = 0.40%, maximum grade = 8%)

Sewer Improvement Checklist (Public & Private) (Continued)

17. Design Requirements: sanitary sewers 12" diameter and smaller are normally designed to run half-full (50%) at peak flow. Larger sewers are designed to run 75% full at peak flow
18. Velocity not to exceed 10 ft/s

2.15

Water Improvement Plan Check List (Public & Private)

Project No. _____ Plan No. _____ Checked by: _____

Plan Check Deposit: _____ Receipt Number: _____ Date: _____

I. Title Sheet

1. Vicinity Map/North Arrow
2. General notes, list all improvement plans used as a reference in preparation of those plans in the general notes
3. Construction notes with quantity estimate
4. Index Map
5. Legend of symbols and abbreviations
6. City of Upland bench mark and basis of bearing
7. Name/address/phone # of developer/owner and civil engineer
8. Project number and plan number in lower, right corner of plan
9. City approved title/signature block (tract or parcel number, CUP, SP, etc.)
10. Civil engineer's seal and signature
11. Underground alert notice
12. Private engineer's note
13. "Survey Monument" note and "Contractor's Responsibility for Safety" note
14. Review conditions of approval and complete all requirements
15. Check that plan check fees have been paid prior to permit issuance
16. Declaration of Engineer of record.

II. Plan Sheet

1. Topo shall be shown per City standard
2. Street names shown
3. Stationing to conform to stationing on any existing plans on file. New stationing shall increase west to east or south to north
4. Identical stationing on consecutive sheets
5. Stationing of all street centerlines
6. Station at beginning and at end of improvements and at center of driveways, fire hydrants, blow-offs, services and main line valves
7. North arrow shall be shown pointing up to the right. No exceptions, unless approved by Public Works Director
8. All driveways, sewer mains and laterals must be shown
9. Water easements shown correctly. Water easements shall be located on one lot only.
10. If any area shown is located in the County, it must be labeled. Show City limit lines
11. Existing pipelines, irrigation lines, structures, power poles, or trees, etc., in right-of-way or immediately adjacent to right-of-way must be shown
12. All existing and proposed utilities must be shown, labeled and dimensioned
13. Show existing, proposed and future right-of-way and improvement widths. Should conform to street improvement plan
14. Lot lines, frontage distances and lot numbers same as record map. Label property and map boundary lines
15. Show existing improvements with dashed lines. Proposed improvements with solid lines
16. All drawing references must be noted on plan
17. Show details of all improvements if not City standard. For all standard improvements, show standard drawing number. Check standard drawings for those dimensions to be shown on plans
18. Show existing fire hydrants in vicinity on both sides of the street. Water Division to check locations & size of new fire hydrants. Maximum spacing for fire hydrants is 300' (measured radially). Fire hydrants to be located at a property line where possible.
19. Construction notes shown and numbers checked against indicated improvements
20. All fittings should be labeled and called out
21. Blow-offs required at all dead ends, including temporary dead ends, per City Standards unless system terminates at a fire hydrant
22. Check for minimum separation requirements with all underground utilities per City Std. W.25 and Health Dept. requirements (including proposed sewer, recycled water lines and storm drain lines).

Water Improvement Checklist (Public & Private) (Continued)

23. Check for low or high points in system (including temporary dead ends) which may require air relief valves (for high points), relocation of fire hydrant, or blow-off valve (for low points)
24. "Hot Taps" shall indicate installation and size of tapping valve and tapping sleeve (welded nipple and flange in case of steel mains)
25. Note for restoration of existing pavement
26. Where shut down of existing main is required, add to general notes, "All shut down of existing water mains to be done by and coordinated with the City Water Division. Contractors shall notify all affected water users 72 hours in advance of shutdown"
27. Water mains to be CML&C steel pipe
28. Proposed location of all laterals shall be checked for conflicts with other facilities (i.e. trees, light poles, sewer laterals, driveways, etc.)
29. Water Division to approve the type, size and location of all mainline pipes, valves and laterals (maximum valve spacing is 500')
30. A minimum of 12' paved access shall be required to all public facilities. Access shall be clear of obstructions (including roof overhang)
31. False bottoms to be placed in all sewer manholes located within the construction area.
32. A trap is to be placed in the next downstream sewer manhole from the construction area to trap any construction debris from the site
33. For all industrial or commercial projects, install a new (or upgrade an existing) R. P. backflow device per City Standard W.19.
34. For tracts, show a sewer and water as-built table. This table should show the proposed lateral stations and a column for the as-built locations and a column to reflect when a sewer backflow valve is required.

III. Profile (when required)

1. Scale, both horizontal and vertical
2. Show 100' stationing at bottom of profile
3. Names and centerline stationing of intersecting streets
4. Label and show connection to existing water, existing elevation and grade. Denote existing elevation and grade with parenthesis
5. Label all profiles
6. Profile of finished centerline surface
7. Water grade correctly shown
8. Label and show stations and elevations at end of water , at crossings and grade breaks
9. Show size and material of water main
10. Show location and bottom or top elevations of all crossings, parallel pipes or structures that might enter into the design of the water main
11. Check that elevations in profile and plan section match
12. Check that profiles and elevations are the same on each sheet or section of match lines
13. Check minimum depth of top water line per City Standard CU-D-7
14. Compare design to existing plans and reference plan numbers on drawing

Section 3.0

Private Improvement Fee Information



**CITY OF UPLAND
PUBLIC WORKS DEPARTMENT
LAND DEVELOPMENT & TRANSPORTATION DIVISION**

**COST ESTIMATE SUMMARY SHEET
Private Improvements**

Developer: _____
 Project: _____
 Location: _____

Item Description	Estimated Cost
1 . On-Site Improvements	\$ -
2 . Sewer Improvements	\$ -
3 . Water Improvements	\$ -
4 . Drainage Improvements	\$ -
5 . Traffic Improvements	\$ -
6 . Miscellaneous	\$ -
Sub Total	\$ -
20% Contingency	\$ -
Total Amount	\$ -

Estimated By: _____
 RCE#: _____
 Date: _____



Bonds are not required for private improvements. These calculations are required to determine the Inspection Fee Deposit only. The Developer's Engineer will calculate the estimated cost. The Inspection Fee Deposit must be paid before permits are issued.

3.2

**Preliminary Cost Estimate Form for
Private On-Site Improvements**

Developer: _____

Project: _____

Location: _____

Street Items	Quantity	Unit	Price	Amount
Roadway Excavation				\$ -
1. Projects with Grading Plan area X 0.50' (hinge point to hinge point) (_____ SF)		CY	\$ 12.00	\$ -
2. Projects without Grading Plan road area and side slopes to daylight. Cut (C) = Fill (f) =				\$ -
(a) Excavate & Fill		CY (c or f)	\$ 3.00	\$ -
(b) Excavate & Export		CY (c -f)	\$ 1.00	\$ -
PCC Curb and Gutter 6"		LF	\$ 11.00	\$ -
PCC Curb and Gutter 8"		LF	\$ 13.00	\$ -
PCC Sidewalk		SF	\$ 6.00	\$ -
PCC Cross Gutter/Spandrel		SF	\$ 8.00	\$ -
PCC Curb Only 6"		LF	\$ 8.00	\$ -
PCC Curb Only 8"		LF	\$ 10.00	\$ -
Rolled Curb		LF	\$ 12.00	\$ -
PCC Pavement		SF	\$ 8.00	\$ -
Ribbon/Alley Gutter		LF	\$ 12.00	\$ -
Wheelchair Ramp (ADA Compliant)		EA	\$ 1,600.00	\$ -
Drive or Alley Approach		SF	\$ 8.00	\$ -
Asphalt Concrete (144 lbs/ft ³)		TON	\$ 76.00	\$ -
AC Patch-Trench (Match Existing)		SF	\$ 4.00	\$ -
Grind & AC Overlay @ 0.50 inch		SF	\$ 3.00	\$ -
Aggregate Base CL II		CY	\$ 44.00	\$ -
AC Berm		LF	\$ 11.00	\$ -
Street Lights Underground + Trench (Standard Marbelite)		EA	\$ 4,800.00	\$ -
Street Lights Underground + Trench (Decorative)		EA	\$ 5,600.00	\$ -
Install Barricades		LF	\$ 88.00	\$ -
Remove Barricades		LF	\$ 8.00	\$ -
Remove AC Pavement		SF	\$ 2.00	\$ -
Remove PCC Curb		LF	\$ 8.00	\$ -
Adjust Sewer Manhole to grade		EA	\$ 400.00	\$ -
Adjust Water Valve to grade		EA	\$ 240.00	\$ -
Sawcut		LF	\$ 2.00	\$ -
Decorative Concrete		SF	\$ 10.00	\$ -
Underwalk Drain		EA	\$ 1,440.00	\$ -
Parkway Trees		EA	\$ 280.00	\$ -
Parkway Landscape and Irrigation		SF	\$ 1.00	\$ -
Install Chain Link Fence		LF	\$ 13.00	\$ -
Irrigation Backflow Prevention Assembly (w/ enclosure)			\$ -	\$ -
Relocate Power Pole		EA	\$ 8,000.00	\$ -
Total for On-Site Improvements				\$ -

By: _____

On-Site Drawing Number(s): _____

3.6

**Preliminary Cost Estimate Form for
Private Traffic Improvements**

Developer: _____

Project: _____

Location: _____

Traffic Improvements	Quantity	Unit	Price	Amount
4" Painted Broken Stripes		LF	\$ 1.60	\$ -
4" Painted Double Solid Stripes		LF	\$ 0.40	\$ -
6" Painted Bike Lane Stripes		LF	\$ 0.60	\$ -
Painted One-Way, No Passing		LF	\$ 0.30	\$ -
Painted Two-Way, Left Turn Lane		LF	\$ 0.70	\$ -
Painted Pavement Markings		SF	\$ 2.40	\$ -
8" Thermoplastic Channelizing Line		LF	\$ 1.60	\$ -
12" Thermoplastic Crosswalk & Limit Line		LF	\$ 2.40	\$ -
Thermoplastic Pavement Markings		SF	\$ 3.20	\$ -
Street Name Sign & Post		EA	\$ 240.00	\$ -
Stop Sign & Post		EA	\$ 240.00	\$ -
Road Sign on existing pole/post (One Post)		EA	\$ 160.00	\$ -
Road Sign on existing pole/post (Two Post)		EA	\$ 240.00	\$ -
Street Sign (Mast Arm Hanger Method)		EA	\$ 400.00	\$ -
Remove Painted Stripes & Pavement Markings		SF	\$ 2.40	\$ -
Remove Thermoplastic Stripes & Pavement Markings		SF	\$ 4.00	\$ -
Traffic Signal & Lighting - New Installation		LS	\$ 240,000.00	\$ -
Traffic Signal & Lighting - Modification		LS	\$ 160,000.00	\$ -
Type E - 6' Round Signal Loops		EA	\$ 480.00	\$ -
Type D - 6' Square Loops with bike detection zone		EA	\$ 640.00	\$ -
Install Pull Box (#5)		EA	\$ 400.00	\$ -
Install Pull Box (#6)		EA	\$ 560.00	\$ -
Install Pull Box (#6E)		EA	\$ 640.00	\$ -
2" Conduit		LF	\$ 20.00	\$ -
3" Conduit		LF	\$ 24.00	\$ -
3" PVC Conduit (for Fiber Optic Cable only)		LF	\$ 24.00	\$ -
24 Single Mode Fiber Optic Cable		LF	\$ 3.20	\$ -
12 Pair Interconnect Cable		LF	\$ 4.00	\$ -
Bike Loops		EA	\$ 240.00	\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
Total for Traffic Improvements				\$ -

By: _____

Drawing Number(s): _____

Section 4.0

Grading Plan And Fee Information

4.1

Grading Plan Check List

Project No. _____ Plan No. _____ Checked by: _____

Plan Check Deposit: _____ Receipt Number: _____ Date: _____

I. Title Sheet

1. Vicinity Map/North Arrow
2. General notes, list all improvement plans used as a reference in preparation of those plans in the general notes
3. Construction notes and Quantity Estimate
4. Index Map
5. Legend of symbols and abbreviations
6. City of Upland Bench Mark and basis of bearing
7. The name, address, and telephone number of developer/owner, civil engineer, and soils engineer
8. Project number and plan number in lower, right corner of plan
9. City approved title & signature block
10. Civil Engineer's seal & signature
11. Underground alert notice
12. Private Engineer's note
13. "Survey Monument" note and "Contractor's Responsibility for Safety" note
14. Estimated start and completion date
15. Design professional's statement
16. City Engineer's statement
17. Earthwork quantities
18. Description of property (address, APN, legal description)
19. Note: all grading shall be performed in accordance with the City of Upland's CU-E series Standard Drawings and ED-E of the Engineering Directives
20. All grading projects, regardless of size or time of year will require an Erosion Control Plan to prevent sediment from entering storm drain or water bodies; cross cut lot drainage not allowed
21. Review conditions of approval and complete all requirements
22. Check that all plan check fees have been paid prior to permit issuance
23. Submit WQMP
24. Provide WDID Number
25. Declaration of Engineer of Record
26. Comply with latest California Building Code (CBC)
27. Submit copy of approved tentative map and/or site plan
28. Submit copy of final map
- 29.
- 30.

II. Plan Sheet

1. North arrow/scale (minimum scale 1"=40')
2. Project boundary with dimensions
3. Lot lines and numbers with dimensions
4. All adjacent property lines
5. Existing contours and details of terrain. Extend existing contours at least 50' beyond the limits of the site
6. Plot location of all existing structures, buildings, walls, fences, trees, curb & gutters, driveways and sidewalks, etc. to within 30' of site
7. Plot and label all easements within the project site; easement must be on one lot only
8. Plot all underground facilities (existing & proposed)
9. Show pad and finish floor elevations of all existing and proposed buildings
10. Detailed plans of all surface and subsurface drainage devices
11. Show proposed drainage devices and swales; employ Low Impact Development (LID) and use BMPs
12. Show proposed curb, gutter, sidewalks, parking, planter areas, etc. Check that site matches approved site plan
13. Check all edge conditions for offsite grading and cross lot drainage. Request appropriate grading and drainage permission letters

Grading Check List (Continued)

14. 2:1 maximum slope allowed
15. Where needed, show stations and elevations along streets (stationing to conform to street stationing)
16. Construction notes
17. Details of non-standard drainage devices, etc.
18. Cross-section details where needed (especially along property lines)
19. Proposed contours
20. Dimension of street widths, existing utilities, proposed structures, buildings, parking lots, walls, drainage facilities, etc.
21. No drainage water allowed over public sidewalk in commercial sites. Give size and location of parkway drains
22. Onsite drainage over A.C. shall have a 1% minimum slope. Concrete gutters and V-ditches shall be a minimum of 6" thick, with a minimum slope (0.5% minimum)
23. All parkways to have a ¼" per foot slope
24. Show flowline grades for all drainage swales and devices
25. Show existing elevations at each lot corner
26. Retaining walls per separate permit must be submitted with grading plans. Only At-Risk grading permit will be issued until retaining walls are approved.
27. Change of grade along project property lines shall not exceed one foot without installation of retaining walls or slope letters (6" along existing fences)
28. Show sewer, water, fire, connections to proposed buildings
29. Give appropriate pavement section. Minimum 2" A.C. over native
30. Minimum grade for earth swale is 1%, check for erosion problems when slope exceeds 5% (CBC Section 1804)
31. The sides of common swales between houses shall be a minimum of 5% and maximum of 20% grade
32. Flowlines of swales for rear yard of residences shall be a minimum of 10 feet from the house (side yard has a 3' minimum). A minimum depth of 3" below pad is required at the H.P. of the swale
33. Check for 18" landings in all planters adjacent to parking stalls (CU-L-5)
34. Check that each new or upgraded multi-family development has one trash enclosure for every 8 housing units
35. A multi-family recycling program shall be required as follows: 80 sq. ft. of space shall be allocated for every 8 housing units and an additional 5 sq. ft. for each unit above the 8 units
36. Check that a minimum of one trash enclosure is proposed for all industrial/commercial sites
37. Check that all industrial/commercial sites provide 100-square feet for every 10,000-square feet of building space, with an additional 5-square feet for each 1,000-square feet above the 10,000-square feet for recycling activities
38. Check driveway slopes to ensure fire access and drivability
39. Check turning radii for fire truck accessibility (min. inside r = 20', min. outside r = 45')
40. False bottoms to be placed in all sewer manholes located within the construction area.
41. A trap is to be placed in the next downstream sewer manhole from the construction area to trap any construction debris from the site
42. A minimum 12 foot paved access is required to access all public facilities
43. Show grease interceptor, plumbed separately from the domestic waste pipe, when required.
44. Check the designated handicapped access route for pedestrian traffic through site (must meet ADA standards).

4.2

Grading Plan Statements

The following statements shall be placed on all grading plans:

Design Professional's Statement

This grading plan was prepared under my direction and is in accordance with California Building Code (latest edition) and Chapter 15.52 of the Upland Municipal Code. The site grading and all applicable details conform to the provisions of Series CU-E of the Standard Drawings of the City of Upland, with Series ED-E of the Engineering Directives, and with any City of Upland Conditions of Approval concerning grading. In my opinion, adequate provisions have been made for the drainage of surface waters from each building site.

Firm Name

Signature

_____ Title RCE#

Date

4.3

Erosion Control Plan Check List

Project No. _____ Plan No. _____ Checked by: _____

Plan Check Deposit: _____ Receipt Number: _____ Date: _____

I. Title Sheet

1. Vicinity Map/north arrow
2. General Erosion Control notes
3. Construction notes
4. Index map
5. Legend of symbols and abbreviations
6. Name/address/phone # of developer/owner, civil engineer, and soils engineer
7. Project number and plan number in lower, right corner of plan
8. City approved title/signature block (tract or parcel #, CUP, SP, etc.)
9. Civil engineer's seal and signature
10. Estimated start and completion date
11. "Design Professional's Statement" for Erosion Control
12. "City Engineer's Statement" for Erosion Control
13. Description of Property (address, APN, legal description)
14. Check that all plan check fees have been paid.
15. Provide 24-Hour contact person's name and number
16. Provide WDID Number

II. Plan Sheet

1. North arrow/scale (minimum scale 1"=40')
2. Project boundary with dimensions
3. Use Filter Fabric Gravel Bags
4. Temporary desilting details

PENDING

4.5

Erosion Control Plan Statements

The following statements shall be placed on all erosion control plans:

**Design Professional's Statement
Temporary Drainage and Erosion Control**

This drainage and erosion control plan was prepared under my direction. Berms, swales, sandbags, and other temporary drainage facilities shown here are to be installed and maintained during the construction phase of the project. In my opinion, adequate provisions have been made to provide drainage of surface water from the site without causing flooding or sedimentation problems on public rights-of-way or surrounding private property.

Firm Name

Signature

_____ RCE#
Title

Date

Section 5.0

Tract and Parcel Maps

5.1 Submission of Tract and Parcel Maps For Plan Check

For review of final Tract or Parcel Maps, please submit the following:

4 sets	TRACT/PARCEL MAP (bond)
2 copies	TITLE REPORT (prepared within the last 90 days)
2 sets	RECORD DOCUMENTS (referenced in Schedule B of Title Report)
1 set	RECORD MAPS (as referenced on new final map)
1 copy	APPROVED TENTATIVE MAP
2 copies	FINAL APPROVED CONDITIONS OF APPROVAL
2 sets	CLOSURE CALCULATIONS
1 each	MAP REVIEW FEE (See section 1.0)

Rechecks

The last set of the map checker's redline prints of the map and two (2) sets of revised prints shall be submitted for subsequent map checks.

Final Review and Approval

When map checking is completed, the following is required for processing through City Council.

City Council meets the second (2nd) and fourth (4th) Monday of each month. The following items must be submitted (in final form) before noon on the Tuesday preceding the Council meeting.

1. An original of the map and one set of mylar prints shall be submitted, in final form, complete with all signatures.
2. Subdivision agreements shall be completed on the City of Upland forms, with all signatures.
3. Subdivision bonds shall be submitted. The form provided by the bonding company is acceptable.
4. All other documents required by the conditions of approval that must record with the final map (i.e. Landscape Maintenance Agreements, CC&R's, Aviation/Noise Easements, Reciprocal Parking agreements, etc.).
5. All outstanding fees must be paid in full.

5.2

Tract Map and Parcel Map Check List

Project No. _____ Map No. _____ Checked by: _____

Map Check Deposit: _____ Receipt Number: _____ Date: _____

Map Number _____ Expiration Date _____

Subdivider _____ Surveyor/Engineer _____

Other Identify _____

Check Print Number _____ Lots _____

Approved _____

I. Title Sheet

Please make comments on the face of the attached check print and return to this office. Any new additions or corrections other than those marked in red by our offices shall be labeled, underlined or in some manner made highly distinguishable along with calculations, if deemed necessary, for our office to check.

I. Authority

1. Subdivision Map Act
2. Land Surveyors Act
3. City Standards and Ordinance

II. Certificates

1. Acknowledgment
2. Acceptance
3. Auditor
4. Board of Supervisors
5. City Engineer
6. Owner
7. Records Square 3¼ x 3¼ inches
8. Signature Omissions
9. Surveyor or Engineer
10. Other: _____

III. Map Notes

Basis of Bearing:

1. Labeled on Map
2. Two monuments on the same line and shown on a recorded or filed map
3. Solar or stellar observation
4. California coordinate system (must include the zone and at least two stations)
5. Minor subdivisions number

Symbols and Abbreviations:

1. Closed circles or squares for found monuments
2. Open circles or squares for set monuments. Must include type, size, length, RCE or LS number
3. Define abbreviations

Tract Map and Parcel Map Checklist (Continued)

Surveyors Notes:

1. Where block walls may be installed at property lines, call out monumentation note to reflect both types (i.e. "all rear lot corners to be set with 1" iron pipe, 18" long, tagged LS _____, Flush. In the event the position of the rear lot corner falls on the wall, a lead and LS _____ tag will be set on the face of the block wall to indicate the direction of the side lot lines).
2. Curb monumentation note: Set nail and tag LS _____ in the top of the curb at the prolongation of side lot lines for front corners.

IV. Mathematical Accuracy

1. Closure Unacceptable
2. Not Checked
3. Bearings Missing or Incorrect
4. Distance Missing or Incorrect
5. Center Line will now reconcile with right-of-way
6. Sum of parts equals the total distance
7. Curve Data
8. Radial Bearings
9. Acreage to hundredths (final maps with lots 1 acre and larger)

V. Survey Procedures

1. Additional Survey Information required
2. Chain of Title, deed interpretation incorrect, Deed Reference
3. Disagrees with Record Data
4. Monuments to County Standard
5. Proportion Incorrect
6. Sectional Breakdown Incorrect
7. Label Fractional Section Corners
8. Record measurements in parenthesis when a material discrepancy exists or beneficial to map interpretation
9. Reference for all found monuments or statement of acceptance if used as control monuments
10. Ties to adjacent tract lines, street C/L or section lines

VI. Map Body

1. Map Size, 18" x 26", with 1" blank border on all sides
2. Map orientation, title and map body to read from bottom or right side of sheet when north arrow points away from reader
3. Map Subtitle Description
4. North Arrow and Scale
5. Sheets Numbered
6. Index Map (500 scale)
7. Current Title Report
8. Legibility of Map Data
9. Remove Advertising
10. City, County or State boundaries shown
11. Conforms to approved tentative map and conditions of approval
12. Data on soil test report delineated
13. Dedication shown and labeled
14. Delineate boundary of original parcel with a line three (3) times wider than all other lines
15. Delineate B.S.L.
16. Detail required for clarity
17. Delineate easements of record
18. Lot and parcel numbering
19. Midpoint of curve or P.I. monument
20. Non-access or non-vehicular access PUE or Private Road Easement

Tract Map and Parcel Map Checklist (Continued)

- 21. Recording Information
- 22. Reference to adjacent maps of record, shown with dashed lines and recording data
- 23. Remainder Parcel
- 24. Reserve Parcel
- 25. (S.B.C.F.C.D.E.) and private D.E.'s
- 26. Sewer Easements
- 27. Show adjacent Streets
- 28. Spelling
- 29. Street C/L dashed
- 30. Street names and widths to City Standards
- 31. Tie point numbers shown
- 32. Water Line Easement
- 33. Other: _____
- 34. Other: _____

VII. Final Subdivision Map Check

- 1. Cash Staking Deposit for Deferred Monumentation \$ _____
- 2. Sufficient Processing deposit prior to recordation
- 3. Tie Sheets
- 4. Prints to Planning Department
- 5. Prints to Zoning
- 6. Prints to Building & Safety
- 7. Prints to Street Addresses
- 8. Prints to Fire Warden
- 9. Control boundary monuments shall be set and are subject to inspection before recordation of final maps. All monuments to be set before recordation of Parcel Maps.

Comments:

By: _____ Date: _____

- Please submit _____ corrected copies with redlined print and this checklist.
- Please submit original signed maps with one corrected copy.

5.3

Final Map Certificates

OWNERS STATEMENT:

WE HEREBY STATE I/WE ARE ALL AND THE ONLY PARTIES HAVING ANY RECORD TITLE INTEREST IN THE LAND SUBDIVIDED AS SHOWN ON THIS MAP AND I/WE CONSENT TO THE PREPARATION AND RECORDATION OF THIS PARCEL MAP.

(LIST ANY OFFERS OF DEDICATION OR SPECIAL CONDITIONS)
(INCLUDE ALL OWNERS)

DATED: _____
NAME _____

(IF APPLICABLE)

BANK NAME

d/b/a (FILL IN CORPORATION NAME) AS BENEFICIARY UNDER TRUST DEED RECORDED
(FILL IN MONTH DATE YEAR), AS INSTRUMENT NUMBER (FILL IN DOCUMENT #) OR

BY: _____

NAME: _____

TITLE: _____

SURVEYOR'S STATEMENT:

THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE AT THE REQUEST OF _____, ON _____. I HEREBY STATE THAT THIS PARCEL MAP SUBSTANTIALLY CONFORMS TO THE APPROVED OR CONDITIONALLY APPROVED TENTATIVE MAP, IF ANY.

DATED: _____
NAME _____ LS/RCE NUMBER _____

CITY ENGINEERS STATEMENT:

I HEREBY CERTIFY THAT I HAVE EXAMINED THE ANNEXED MAP AND THAT THE SUBDIVISION SHOWN THEREON IS SUBSTANTIALLY THE SAME AS IT APPEARED ON THE TENTATIVE MAP AND ANY APPROVED ALTERATIONS THEREOF AND THAT ALL PROVISIONS OF THE SUBDIVISION MAP ACT AND CITY OF UPLAND MUNICIPAL CODE HAVE BEEN COMPLIED WITH.

DATED: _____
ROSEMARY HOERNING
DIRECTOR OF PUBLIC WORKS
CITY OF UPLAND, CALIFORNIA
R.C.E. NO. 44766

I AM SATISFIED THAT THIS MAP IS TECHNICALLY CORRECT.

DATED: _____
MICHAEL P. THORNTON
L.S. 6867

Final Map Certificates (Continued)

ADD NOTICE: A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THIS DOCUMENT.

NOTARY ACKNOWLEDGEMENT (MUST COMPLY WITH LATEST STATE OF CALIFORNIA APPROVED NOTARY ACKNOWLEDGEMENT STATEMENT/LANGUAGE)

STATE OF CALIFORNIA)
COUNTY OF _____) SS

ON, _____ BEFORE ME, _____ PERSONALLY APPEARED, PERSONALLY KNOWN TO ME (OR PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE) TO BE THE PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT THEY EXECUTED THE SAME IN THEIR AUTHORIZED CAPACITIES, AND THAT BY THEIR SIGNATURES ON, THE INSTRUMENT THE PERSONS, OR THE ENTITY UPON BEHALF OF WHICH THE PERSONS ACTED, EXECUTED THE INSTRUMENT.

I CERTIFY THAT UNDER THE PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOREGOING PARAGRAPH IS TRUE AND CORRECT.

SIGNATURE OF NOTARY

DATE COMMISSION EXPIRES

NAME OF NOTARY

PRINCIPAL COUNTY OF BUSINESS

COMMISSION NO. _____

CITY PLANNING COMMISSION CERTIFICATE:

I HEREBY CERTIFY THAT THE SUBDIVISION SHOWN ON THE ANNEXED MAP IS IN ACCORDANCE WITH THE TENTATIVE MAP REVIEWED AT A MEETING OF THE PLANNING COMMISSION OF THE CITY OF UPLAND, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, HELD ON THE _____ DAY OF _____, 20____.

DATED: _____

JEFF ZWACK
SECRETARY OF PLANNING COMMISSION
CITY OF UPLAND, CALIFORNIA

CITY CLERKS CERTIFICATE

I HEREBY CERTIFY THAT THE CITY COUNCIL OF THE CITY OF UPLAND BY A MOTION DULY SECONDED AND PASSED, APPROVED THE ATTACHED MAP ON THE _____ DAY OF _____, 20____ AND FOUND THIS MAP TO BE CONSISTENT WITH APPLICABLE GENERAL OR SPECIFIC PLANS OF THE CITY OF UPLAND.

(PROVIDE ALL EXCEPTIONS)

DATED: _____

STEPHANIE MENDENHALL
CITY CLERK, CITY OF UPLAND, CALIFORNIA

Final Map Certificates (Continued)

AUDITOR'S CERTIFICATE

I HEREBY STATE THAT ACCORDING TO THE RECORDS OF THIS OFFICE, AS OF THIS DATE, THERE ARE NO LIENS AGAINST THE REAL PROPERTY SHOWN UPON THE ANNEXED MAP FOR UNPAID STATE, COUNTY, MUNICIPAL, OR LOCAL TAXES OR SPECIAL ASSESSMENTS COLLECTED AS TAXES, EXCEPT TAXES OR SPECIAL ASSESSMENTS NOT YET PAYABLE, ESTIMATED TO BE \$ _____.

DATED: _____

(INSERT NAME OF COUNTY AUDITOR), COUNTY AUDITOR
COUNTY OF SAN BERNARDINO CALIFORNIA

BY: _____, DEPUTY

BOARD OF SUPERVISOR'S CERTIFICATE

I HEREBY STATE THAT A BOND IN THE SUM OF \$ _____ HAS BEEN EXECUTED AND FILED WITH THE BOARD OF SUPERVISORS OF THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, CONDITIONED UPON THE PAYMENT OF ALL TAXES, STATE, COUNTY, MUNICIPAL, OR LOCAL, AND ALL SPECIAL ASSESSMENTS, COLLECTED AS TAXES WHICH AT THE TIME OF FILING OF THE ANNEXED MAP WITH THE COUNTY RECORDER, ARE A LIEN AGAINST SAID PROPERTY, BUT NOT YET PAYABLE, AND THAT THE SUBDIVIDER HAS FILED WITH ME A CERTIFICATE BY THE PROPER OFFICER, GIVING HIS ESTIMATE OF THE AMOUNT OF SAID TAXES AND ASSESSMENTS, AND SAID BOND IS HEREBY ACCEPTED.

DATED: _____

(INSERT NAME OF CLERK)
CLERK OF THE BOARD OF SUPERVISORS
OF THE COUNTY OF SAN BERNARDINO

BY: _____, DEPUTY

Section 6.0

General Notes

6.1 NOTES FOR TITLE SHEET (To be placed on the title sheet of all plans)

SURVEY MONUMENT NOTE

SURVEY MONUMENTS THAT EXIST AS SHOWN ON RECORDED MAPS, HIGHWAY MAPS, OR POINTS THAT PROVIDE SURVEY CONTROL WITHIN THE CONSTRUCTION AREA, SHALL BE LOCATED AND REFERENCED BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER (AUTHORIZED TO PRACTICE LAND SURVEYING). BEFORE THE START OF CONSTRUCTION, CORNER RECORDS SHALL BE FILED WITH THE COUNTY SURVEYOR. THESE CORNER RECORDS SHALL DESCRIBE THE MONUMENTS FOUND WITH TIE DISTANCES TO REFERENCE POINTS FOR THE RESETTING OF A SURVEY MONUMENT. WHEN CONSTRUCTION IS COMPLETED, MONUMENTS SHALL BE SET AND CORNER RECORDS SHALL BE FILED WITH THE COUNTY SURVEYOR SHOWING THE NEW MONUMENTS.

CONTRACTOR'S RESPONSIBILITY FOR SAFETY

IN SUBMITTING A BID FOR THIS WORK, THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER AND THE CITY OF UPLAND AND ITS AGENTS OR REPRESENTATIVES HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER, OR THE CITY OF UPLAND AND ITS AGENTS OR REPRESENTATIVES.

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT THE EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AND WITH "CONSTRUCTION SAFETY ORDERS." THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTOR OR SUBCONTRACTOR'S COMPLIANCE WITH SAID REGULATION AND ORDERS.

ENGINEERS NOTICE TO CONTRACTOR

THE EXISTENCE AND APPROXIMATE LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES OR STRUCTURES EXCEPT AS SHOWN ON THESE PLANS. THE ENGINEER NEITHER ASSUMES ANY LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITIES OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK ON EXCAVATION TO DETERMINE EXACT LOCATION OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OR PROTECTION OF THESE LINES.

THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (U.S.A.), PHONE NUMBER 1-800-227-2600, TWO WORKING DAYS PRIOR TO DIGGING. NO CONSTRUCTION PERMIT, ISSUED BY THE PUBLIC WORKS DEPARTMENT, SHALL BE VALID INVOLVING UNDERGROUND FACILITIES, UNLESS THE APPLICANT HAS AN INQUIRY IDENTIFICATION NUMBER ISSUED BY U.S.A.

NOTES FOR TITLE SHEET (Continued) To be placed on the title sheet of all plans)

DECLARATION OF ENGINEER OF RECORD NOTE

DECLARATION OF ENGINEER OF RECORD

I HEREBY DECLARE THAT IN MY PROFESSIONAL OPINION, THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH THE CURRENT PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ACCEPT FULL RESPONSIBILITY FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF UPLAND IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THAT THESE PLANS COMPLY WITH CITY STANDARDS AND OTHER APPLICABLE CODES AND ORDINANCES. THE PLAN REVIEW PROCESS IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT THEREFORE RELIEVE ME OF MY DESIGN RESPONSIBILITY.

AS THE ENGINEER OF RECORD, I AGREE TO DEFEND AND INDEMNIFY THE CITY OF UPLAND, ITS OFFICERS, ITS AGENTS, AND ITS EMPLOYEES FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES, OR INJURIES TO ANY PERSON OR PROPERTY ARISING FROM NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF RECORD, HIS EMPLOYEES, HIS AGENTS OR HIS CONSULTANTS.

SIGNATURE: (REQUIRED AT MYLARS ONLY) DATE: _____
LICENSE NUMBER: _____

NOT FOR CONSTRUCTION NOTE:

PLEASE MARK ALL PLANS/ALL SHEETS EXCEPT MYLARS. NOT FOR CONSTRUCTION, FOR PLAN CHECK ONLY.

6.2 GENERAL NOTES FOR STREET IMPROVEMENT PLANS (PUBLIC & PRIVATE)

1. ALL WORK CALLED FOR ON THE PLANS SHALL COMPLY WITH CURRENT CITY OF UPLAND STANDARD SPECIFICATIONS, ADOPTED BY CITY COUNCIL, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. THE CONTRACTOR, BEFORE UNDERTAKING ANY GRADING OR CONSTRUCTION WORK OF ANY TYPE WITHIN THE PUBLIC RIGHT OF WAY MUST FIRST OBTAIN A CONSTRUCTION PERMIT FROM THE PUBLIC WORKS DEPARTMENT.
3. A TEMPORARY STREET CLOSURE PERMIT IS REQUIRED WHEN THE WORK IMPEDES VEHICULAR OR PEDESTRIAN TRAFFIC. PLEASE NOTE THAT CITY COUNCIL RESOLUTION NUMBER 1656, WHICH DEALS WITH THE PROMPT RESTORATION OF CITY STREETS DAMAGED DURING CONSTRUCTION, AND CHAPTER 12.08 OF THE UPLAND MUNICIPAL CODE WILL BE ENFORCED IN ALL CASES WHERE THE PROVISIONS ARE APPLICABLE.
4. INSPECTION BY THE CITY OF THE WORK CALLED FOR ON THE PLANS DOES NOT, IN ANY WAY, RELIEVE THE CONTRACTOR AND/OR DEVELOPER OF THEIR OBLIGATION TO PERFORM WORK IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
5. REQUESTS FOR DEVIATIONS FROM THE APPROVED PLANS, (EXCEPT MINOR ADJUSTMENTS IN THE FIELD TO MEET EXISTING CONDITIONS), SHALL BE MADE IN WRITING AND ARE NOT TO BE INITIATED UNLESS OR UNTIL THEY ARE APPROVED BY THE PUBLIC WORKS DIRECTOR OR A REPRESENTATIVE ACTING SPECIFICALLY UPON HIS INSTRUCTIONS.
6. ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM CITY OF UPLAND BENCHMARKS.
7. QUANTITIES, AS SHOWN ON THE PLANS ARE ESTIMATED, AND THE CONTRACTOR IS ADVISED THAT FINAL QUANTITIES OF MATERIAL AND WORK IN PLACE MAY BE MORE OR LESS THAN THOSE INDICATED ON THE PLANS.
8. CONCRETE GUTTERS, ALLEY APPROACHES, DRIVEWAYS OR OTHER CONCRETE WORK THAT IS SUBJECT TO VEHICULAR TRAFFIC, SHALL BE BARRICADED AND NO VEHICULAR TRAFFIC IS PERMITTED THEREON FOR AT LEAST SEVEN DAYS FOLLOWING THE PLACEMENT OF THE CONCRETE WORK. WHEN THE GENERAL PROVISIONS CALL FOR CONCRETE WORK TO HAVE VEHICULAR TRAFFIC UPON IT SOONER THAN SEVEN DAYS AFTER PLACEMENT, OR WHEN THE CONTRACTOR FOR CONVENIENCE OF OPERATION SO DESIRES, THE CONCRETE WORK WILL CONTAIN AT LEAST EIGHT SACKS OF CEMENT PER CUBIC YARD, AND SHALL IF SO DIRECTED BY THE ENGINEER, BE USED, AND TRAFFIC WILL BE PERMITTED THEREON SEVENTY-TWO HOURS AFTER PLACING OF SAID EIGHT SACK CONCRETE.
9. IRRIGATION LINES WITHIN ANY CITY RIGHT-OF-WAY SHALL HAVE A TWENTY-FOUR INCH MINIMUM COVER FROM FINISH SURFACE; UNLESS SAID IRRIGATION LINE IS ENCASED IN CONCRETE OR BEDDED IN A SPECIAL CONCRETE CRADLE.
10. THE CONTRACTOR SHALL OPERATE IN A MANNER COMPLIANT WITH ALL APPLICABLE SECTIONS OF THE MUNICIPAL CODE AND COMPLIANT WITH ALL APPLICABLE CITY COUNCIL RESOLUTIONS.
11. THE LOCATION OF UNDERGROUND UTILITY OR IRRIGATION LINES AS SHOWN ON THE PLANS, IS APPROXIMATE, AND SINCE THE ACTUAL LOCATION MAY BE SOMEWHAT DIFFERENT FROM THAT SHOWN, THE CONTRACTOR IS REQUIRED TO CONTACT THE INTERESTED UTILITY OR WATER COMPANY BEFORE EXCAVATING IN THE VICINITY OF ANY SUCH LINES.

GENERAL NOTES FOR STREET IMPROVEMENTS (PUBLIC & PRIVATE) (CONTINUED)

12. PARKWAY TREES, INSTALLED BY THE DEVELOPER, SHALL BE PLANTED AND MAINTAINED IN ACCORDANCE WITH CITY OF UPLAND STANDARD DRAWING NUMBER CU-P-9 AND THE APPROVED STREET TREE LIST.
13. THE DEVELOPER, PER THE PUBLIC WORKS DEPARTMENT, WILL INSTALL ALL STREET NAME AND TRAFFIC REGULATORY SIGNS INDICATED IN THE PLANS. HIGH INTENSITY REFLECTIVE SHEETING WILL BE REQUIRED.
14. ALL STREET LIGHTS INDICATED ON THE PLANS SHALL BE INSTALLED BY THE SOUTHERN CALIFORNIA EDISON COMPANY. THE DEVELOPER SHALL WORK DIRECTLY WITH THE EDISON COMPANY WHEN THE LIGHTS ARE TO BE SERVED FROM ANY UNDERGROUND SYSTEM. WATER DEPARTMENT STANDARD W.26A AND W.26B DOES APPLY.
15. AN APPROVED WEED KILLER SHALL BE APPLIED TO THE PREPARED BASE PRIOR TO ASPHALT PAVING IN ALL AREAS WHERE THERE IS ANY EVIDENCE OF HUMUS OR ORGANIC MATERIAL PRESENT IN THE BASE (EITHER NATIVE OR IMPORTED) MATERIAL. ALL WEED KILLERS USED SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
16. THE FOLLOWING CITY OF UPLAND STANDARD DRAWINGS APPLY TO THIS PROJECT AND SHALL BE CONSIDERED AS PART OF THESE PLANS: CU-D-1, CU-D-2, CU-P-3, CU-P-4, CU-P-8, CU-R-2, CU-R-3, CU-S-1, CU-S-6, CU-Z-3, W.26A AND W.26B.
17. ALL PAVEMENT MARKING SHALL BE ALKYD THERMOPLASTIC
18. ALL TRAFFIC SIGNS SHALL BE CONSTRUCTED WITH HIGH INTENSITY REFLECTIVE SHEETING AND BE INSTALLED ON 2" SQUARE "QUICKPUNCH" POSTS WITH 8" CONCRETE FOOTING, 18" DEEP.
19. ALL WATER VALVES AND SEWER MANHOLES SHALL REMAIN ACCESSIBLE AND FREE OF DEBRIS THROUGHOUT ALL PHASES OF THE PROJECT.
20. INSTALL ¾" PLYWOOD FALSE BOTTOMS IN ALL SEWER MANHOLES WITHIN THE CONSTRUCTION AREA (CHECKED DAILY BY INSPECTOR).
21. PROVIDE TRAP AT FIRST MANHOLE DOWNSTREAM OF PROPOSED IMPROVEMENTS (CHECKED DAILY BY INSPECTOR).
22. STREETS SHALL BE PAVED WITH 4" A.B. OVER 8" A.B. CLASS 2 OR TO THE RECOMMENDATION OF THE SOILS COMPACTION REPORT, WHICHEVER IS GREATER.
23. FOOTHILL BLVD SHALL BE PAVED WITH 8" A.C. OVER 8" A.B. CLASS 2 OR TO THE RECOMMENDATION OF THE SOILS COMPACTION REPORT, WHICHEVER IS GREATER.

6.3 GENERAL NOTES FOR WATER AND SEWER PLANS (PUBLIC & PRIVATE)

1. ALL WORK AND MATERIAL SHALL CONFORM TO THE HIGHER STANDARD IN EITHER "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF WATER MAINS AND APPURTENANCES, APRIL 2011" ON FILE AT THE CITY WATER DEPARTMENT, CITY OF UPLAND, OR "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," LATEST ISSUE AND AMENDMENTS, KNOWN AS THE "GREEN BOOK."
2. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING AND PROTECTING FROM DAMAGE ALL EXISTING FACILITIES AND IMPROVEMENTS WHETHER OR NOT SHOWN ON THESE PLANS. THE FACILITIES AND IMPROVEMENTS ARE BELIEVED TO BE CORRECTLY SHOWN BUT THE CONTRACTOR IS REQUIRED TO SATISFY HIMSELF AS TO THE COMPLETENESS AND ACCURACY OF THE LOCATIONS.
3. SAN ANTONIO WATER COMPANY, 139 N. EUCLID AVENUE, UPLAND, (909) 982-4107, MAY HAVE WATER LINES IN THIS AREA. CONTACT THEM FOR LOCATION, SIZE, AND DEPTH OF LINES, AND OTHER PERTINENT INFORMATION.
4. QUANTITIES SHOWN ON THE PLANS ARE ESTIMATED. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACCURACY OF QUANTITIES BEFORE BIDDING ON ANY ITEM.
5. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE STATE OF CALIFORNIA, DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF INDUSTRIAL SAFETY, BEFORE STARTING THE EXCAVATION OF ANY TRENCH FIVE FEET OR MORE IN DEPTH. SHORING, BRACING, SLOPING AND ALL OTHER PROVISIONS FOR WORKER PROTECTION SHALL CONFORM TO THE PROVISIONS CONTAINED IN ARTICLE 6 OF THE STATE OF CALIFORNIA, DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS, EFFECTIVE AUGUST 8, 1965, AND AS AMENDED JULY 27, 1973. IF VARIATION FROM THESE STANDARDS IS DESIRED, A DETAILED PLAN SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER AND SUBMITTED TO THE PUBLIC WORKS DIRECTOR FOR APPROVAL.
6. ALL WATER AND SEWER MAINS SHALL MEET THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH REQUIREMENTS FOR THE SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER.
7. THE CONTRACTOR IS REQUIRED TO REPAIR THE EXISTING PAVEMENT WHICH IS REMOVED OR DAMAGED BY HIS OPERATIONS IN ACCORDANCE WITH STANDARD DRAWING ORDINANCE NO. 1841 AND CU-Z-3 UNLESS ARRANGEMENTS ARE MADE WHICH COORDINATE STREET PAVING IN A MANNER ACCEPTABLE TO AND APPROVED BY THE PUBLIC WORKS DIRECTOR.
8. BEFORE CONNECTING TO THE CITY WATER SYSTEM, THE DEVELOPER MUST MEET THE REQUIREMENTS OF SECTION 13.12.130 OF THE UPLAND MUNICIPAL CODE RELATING TO THE TRANSFER OF WATER STOCK TO THE CITY OF UPLAND.
9. SERVICE LATERALS ARE TO BE PLACED AT THE CENTER THIRD OF THE LOT UNLESS OTHERWISE APPROVED BY THE CITY OF UPLAND.
10. SERVICE LATERALS ARE TO BE INSTALLED PER STANDARD DRAWING W.01 OR W.03, ON FILE AT THE CITY OF UPLAND.
11. FIRE HYDRANTS SHALL BE INSTALLED PER STANDARD DRAWING W.05 ON FILE AT THE CITY OF UPLAND.
12. CONNECTIONS TO EXISTING WATER MAINS SHALL BE BY "HOT TAP."
13. MINIMUM COVER OF WATER LINES SHALL BE AS FOLLOWS:

GENERAL NOTES FOR WATER AND SEWER PLANS (PUBLIC & PRIVATE) (CONTINUED)

DIAMETER OF PIPE	MINIMUM COVER
2"	24"
4"	30"
6"	36"
8"	42"
10"	48"
12"	48"
14"	52"

14. SADDLE CONNECTIONS ARE NOT PERMITTED TO THE SEWER MAIN. NEW CONNECTIONS REQUIRE A "TEE" OR "WYE" SECTION TO BE PLACED.
15. ACCESS TO WATER VALVES SHALL BE MAINTAINED DURING ALL PHASES OF THE PROJECT. VALVE BOXES TO REMAIN FREE AND CLEAR OF DEBRIS.
16. SEPARATION BETWEEN WATER INSTALLATIONS AND OTHER UTILITIES SHALL BE MAINTAINED (PER WATER DIVISION STD. W.25).
17. PROVIDE TRAP AT FIRST MANHOLE DOWNSTREAM OF PROPOSED IMPROVEMENTS. (CHECKED DAILY BY INSPECTOR)
18. PROVIDE $\frac{3}{4}$ " PLYWOOD FALSE BOTTOMS FOR MANHOLES, BOTH NEW AND OLD, DURING CONSTRUCTION. (CHECKED DAILY BY INSPECTOR)
19. PROVIDE CLEANOUTS FOR EACH SEWER LATERAL 6 INCHES BACK OF SIDEWALK, ADJUST TO FINISH GRADE IN BOX MARKED SEWER.
20. REFERENCE PLANS USED: LIST CITY DRAWING NUMBER'S

6.4 GENERAL NOTES FOR STORM DRAIN PLANS (PUBLIC & PRIVATE)

1. ALL WORK CALLED FOR ON THE PLANS SHALL BE IN COMPLIANCE WITH CURRENT CITY OF UPLAND STANDARD SPECIFICATIONS, ADOPTED BY CITY COUNCIL AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. THE CONTRACTOR SHALL OPERATE IN A MANNER COMPLIANT WITH ALL APPLICABLE SECTIONS OF THE UPLAND MUNICIPAL CODE AND CITY COUNCIL RESOLUTIONS.
3. THE CONTRACTOR, BEFORE UNDERTAKING ANY GRADING OR CONSTRUCTION WORK OF ANY TYPE WITHIN THE PUBLIC RIGHT OF WAY, MUST FIRST OBTAIN A CONSTRUCTION PERMIT FROM THE PUBLIC WORKS DEPARTMENT, LAND DEVELOPMENT & TRANSPORTATION DIVISION.
4. THE CONTRACTOR, BEFORE UNDERTAKING ANY GRADING OR CONSTRUCTION WORK OF ANY TYPE WITHIN THE SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT RIGHT-OF-WAY, MUST FIRST OBTAIN A CONSTRUCTION PERMIT FROM THE SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT.
5. A TEMPORARY STREET CLOSURE PERMIT FROM THE PUBLIC WORKS DEPARTMENT, TRANSPORTATION DIVISION, IS REQUIRED IN ALL CASES WHERE WORK WILL INTERFERE IN ANY WAY WITH VEHICULAR OR PEDESTRIAN TRAFFIC. THE CONTRACTOR IS ADVISED THAT CITY COUNCIL RESOLUTION NUMBER 1656, DEALING WITH PROMPT RESTORATION OF CITY STREETS AFFECTED BY CONSTRUCTION, AND CHAPTER 12.08 OF THE UPLAND MUNICIPAL CODE WILL BE ENFORCED IN ALL CASES WHERE THE PROVISIONS THEREOF ARE APPLICABLE.
6. HAUL ROUTES MUST USE CITY-APPROVED TRUCK ROUTES AS SHOWN ON THE CITY TRUCK ROUTE MAP. A SEPARATE PERMIT IS REQUIRED FROM THE CITY'S LAND DEVELOPMENT & TRANSPORTATION DIVISION.
7. INSPECTION BY THE CITY OF THE WORK CALLED FOR ON THE PLANS SHALL NOT RELIEVE THE CONTRACTOR AND/OR DEVELOPER IN ANY WAY, OF THEIR OBLIGATION TO PERFORM WORK IN COMPLIANCE WITH PLANS AND SPECIFICATIONS.
8. CONTRACTOR SHALL CONTACT THE CITY INSPECTOR, AND ALL OTHER PARTIES HAVING JURISDICTION REGARDING THE PROJECT, TO ARRANGE FOR A PRE-CONSTRUCTION MEETING A MINIMUM OF 2 WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION.
9. ANY ALTERATIONS OR VARIANCES FROM THE PLANS, EXCEPT MINOR ADJUSTMENTS IN THE FIELD TO MEET EXISTING CONDITIONS, SHALL BE REQUESTED IN WRITING, AND MAY NOT BE INSTITUTED UNTIL APPROVED BY THE CITY ENGINEER, OR HIS REPRESENTATIVES, ACTION SPECIFICALLY UPON HIS INSTRUCTIONS.
10. ALL ELEVATIONS SHOWN ON THE PLANS SHALL BE ESTABLISHED FROM CITY OF UPLAND BENCHMARK.
11. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED CIVIL ENGINEER OR LAND SURVEYOR WHEN PROPOSED CONSTRUCTION REQUIRES DISTURBANCE OR REMOVAL OF CENTERLINE TIES OR OTHER SURVEY MONUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAYMENT FOR THE SERVICES TO REESTABLISH REMOVED OR DESTROYED SURVEY MONUMENTS.
- 12.

GENERAL NOTES FOR STORM DRAIN PLANS (PUBLIC & PRIVATE) (Continued)

13. QUANTITIES, AS SHOWN ON THE PLANS, ARE ESTIMATED, AND THE CONTRACTOR IS ADVISED THAT FINAL QUANTITIES OF MATERIAL AND WORK IN PLACE MAY BE GREATER OR LESS THAN THOSE INDICATED ON THE PLANS.
14. CONCRETE FACILITIES, WHICH WILL BE SUBJECT TO VEHICULAR TRAFFIC, SHALL BE BARRICADED AND NO VEHICULAR TRAFFIC SOONER THAN SEVEN DAYS AFTER PLACING WILL BE PERMITTED. WHEN THE CONTRACTOR FOR CONVENIENCE OF OPERATION SO DESIRES, CONCRETE CONTAINING EIGHT SACKS OF CEMENT PER CUBIC YARD MAY, AND SHALL, IF SO DIRECTED BY THE ENGINEER, BE USED. TRAFFIC WILL BE PERMITTED THEREON SEVENTY-TWO HOURS AFTER PLACING OF SAID EIGHT-SACK CONCRETE.
15. ALL CONSTRUCTION OPERATIONS SHALL BE IN CONFORMANCE WITH THE REGULATIONS SET FORTH BY CAL-OSHA.
16. CONTRACTOR SHALL SUBMIT A TRENCH SHORING PLAN TO THE CITY ENGINEER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION FIVE FEET (5') OR GREATER IN DEPTH. IF THE PROPOSED TRENCH SHORING PLAN DEVIATES FROM THE STANDARDS SET FORTH BY THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA, CONTRACTOR SHALL HAVE A REGISTERED CIVIL ENGINEER, LICENSED IN THE STATE OF CALIFORNIA, CERTIFY THE ADEQUACY OF THE PROPOSED TRENCH SHORING SYSTEM. CONTRACTOR SHALL ALSO OBTAIN A PERMIT FROM THE STATE DIVISION OF INDUSTRIAL SAFETY IN ACCORDANCE WITH SECTION 7-10.4.1 SAFETY ORDERS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. A COPY OF THE PERMIT SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ANY EXCAVATION.
17. AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT (800) 422-4133 TO REQUEST THE UTILITY OWNERS TO MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR SUBSURFACE FACILITIES. CONTRACTOR SHALL PROVIDE THE CITY ENGINEER, OR HIS REPRESENTATIVE, WITH TICKET NUMBER ISSUED. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES, INCLUDING ALL SERVICE CONNECTIONS, WHICH HAVE BEEN MARKED BY THE RESPECTIVE OWNERS AND WHICH MAY AFFECT OR BE AFFECTED BY THE CONTRACTOR'S OPERATIONS. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND STRUCTURES LOCATED IN THE PROJECT VICINITY.
18. PROTECT ALL UTILITIES, POLES, SIGNS, AND EXISTING IMPROVEMENTS IN PLACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR NOTED ON THE PLANS. WHERE RELOCATION OF THESE UTILITIES IS REQUIRED, THE CONTRACTOR SHALL COORDINATE CONSTRUCTION AS NECESSARY AND AS APPROVED.
19. WHERE CLEARANCE BETWEEN UTILITIES AND THE STORM DRAIN IS LIMITED AND CRITICAL, THE CONTRACTOR SHALL ASSURE HIMSELF BEFORE CONSTRUCTION (BY POTHOLING OR OTHER MEANS) THAT HE WILL BE ABLE TO COMPLETE THE STORM DRAIN INSTALLATION TO THE LINES AND GRADES AS SHOWN ON THE PLANS. IN NO CASE WILL THE STORM DRAIN PIPE BE ALLOWED TO BE CONSTRUCTED WITH AN ADVERSE INVERT SLOPE.
20. ALL STATIONING SHALL REFER TO CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED. CATCH BASIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING, UNLESS OTHERWISE NOTED.
21. STATIONING FOR LATERALS AND CONNECTOR PIPES SHALL REFER TO THE CENTERLINE INTERSECTION OF THE PIPE AND IS BASED ON STORM DRAIN STATIONING.

GENERAL NOTES FOR STORM DRAIN PLANS (PUBLIC & PRIVATE) (Continued)

22. OPENINGS RESULTING FROM THE CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERT PIPES, OR SIMILAR STRUCTURES TO BE ABANDONED, SHALL BE SEALED WITH 6 INCHES OF CLASS "B" CONCRETE.
23. "V" IS THE DEPTH OF INLET OF CATCH BASINS MEASURED FROM THE TOP OF CURB TO INVERT OF THE OUTLET CONNECTOR PIPE.
24. CATCH BASINS SHALL BE LOCATED SUCH THAT THE LOCAL DEPRESSION SHALL BEGIN AT CURB RETURN JOINTS, UNLESS OTHERWISE NOTED ON PLANS.
25. THE MINIMUM CONCRETE COVER BETWEEN REINFORCEMENT SURFACE AND PIPE INSIDE SURFACE FOR TRANSVERSE STEEL SHALL BE 1 ¼ INCHES. ASSUME 1 ½ INCHES TO CENTER OF BAR WHEN CALCULATING EFFECTIVE DEPTH. WHERE VELOCITIES ARE BETWEEN 20 TO 30 FT/SEC, THE CONCRETE COVER ON THE INSIDE FACE OF THE PIPE SHALL BE INCREASED ½ INCH. WHERE VELOCITIES EXCEED 30 FT/SEC, THE CLEARANCE ON THE INSIDE FACE SHALL BE INCREASED 1 INCH. DESIGN STRENGTH IN THESE REACHES SHALL BE $F_c=4,000$ PSI FOR VELOCITIES EXCEEDING 20 FT/SEC.
26. THROUGHOUT ALL PHASES OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS UNTIL FINAL ACCEPTANCE BY THE CITY COUNCIL. THE CONTRACTOR SHALL ALSO ABATE NUISANCE DUST BY CLEARING, SWEEPING, SPRINKLING WITH WATER, AND OTHER APPLICABLE DUST CONTROL MEASURES AS DIRECTED BY THE CITY THROUGHOUT THE CONSTRUCTION OPERATION.
27. AN APPROVED WEED KILLER SHALL BE APPLIED TO THE PREPARED BASE PRIOR TO ASPHALT PAVING IN ALL AREAS WHERE THERE IS ANY EVIDENCE OF HUMUS OR ORGANIC MATERIAL PRESENT IN THE BASE (EITHER NATIVE OR IMPORTED) MATERIAL. ALL WEED KILLERS USED SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS AND INSTRUCTIONS.
28. SAWCUTS TO EXISTING PAVEMENTS SHALL BE CLEAN, STRAIGHT EDGES AS DIRECTED BY THE CITY INSPECTOR.
29. ALL UNSUITABLE MATERIAL SHALL BE REMOVED, AS REQUIRED BY THE CITY ENGINEER, SOILS ENGINEER OR ENGINEERING GEOLOGIST, FROM ALL AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES, AND SHALL BE HAULED TO A DUMP SITE APPROVED BY THE CITY ENGINEER.
30. ALL TREE ROOTS, ABANDONED IRRIGATION PIPELINES, UTILITY SERVICES, SEPTIC TANKS, AND SIMILAR MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION SITE, AND VOIDS CREATED THEREBY SHALL BE PROPERLY FILLED AND COMPACTED AS DIRECTED BY THE CITY ENGINEER, SOILS ENGINEER OR ENGINEERING GEOLOGIST.
31. ALL MANHOLE RIMS, WATER VALVE CANS, GAS VALVE, ETC. SHALL BE ADJUSTED TO FINISH GRADE BY THE CONTRACTOR AS PART OF THIS PROJECT.
32. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS TO PUBLIC STREET, INCLUDING BUT NOT LIMITED TO HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS AND GUTTERS, CROSS GUTTERS, OR TO PRIVATE PROPERTY, SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE CITY ENGINEER.
33. THE FOLLOWING CITY OF UPLAND STANDARD DRAWINGS APPLY TO THIS PROJECT, AND SHALL BE CONSIDERED PART OF THESE PLANS: CU-D-1, CU-D-2, CU-D-3, CU-P-4, CU-R-3, CU-S-1, CU-S-6, CU-Z-3, W.26A AND W.26B.

GENERAL NOTES FOR STORM DRAIN PLANS (PUBLIC & PRIVATE) (Continued)

34. INSTALL $\frac{3}{4}$ INCH PLYWOOD FALSE BOTTOMS IN ALL SEWER MANHOLES WITHIN THE CONSTRUCTION AREA (INSPECTOR TO CHECK DAILY).
35. CONTRACTOR SHALL INSTALL A TRAP AT THE FIRST SEWER MANHOLE DOWNSTREAM OF CONSTRUCTION AREA (INSPECTOR TO CHECK DAILY).
36. THE DEVELOPER SHALL BE RESPONSIBLE FOR SUBMITTING TO THE CITY, PROOF THAT A NOTICE OF INTENT (NOI) FOR THE GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY HAS BEEN FILED WITH AND APPROVED BY THE STATE WATER RESOURCES CONTROL BOARD. THE DEVELOPER SHALL SUBMIT A COPY OF THE WID NUMBER OBTAINED FROM THE STATE WATER RESOURCE CONTROL BOARD TO THE CITY ENGINEER. CONSTRUCTION SHALL NOT COMMENCE WITHOUT THIS APPROVAL. THE DEVELOPER SHALL BE RESPONSIBLE TO COMPLY WITH THE GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT BY IMPLEMENTING THEIR STORM WATER POLLUTION PREVENTION PLAN FOR THE DURATION OF THE PROJECT. THE SWPPP SHALL IDENTIFY POTENTIAL POLLUTANT SOURCES THAT MAY AFFECT THE QUALITY OF DISCHARGES TO THE STORM DRAIN SYSTEM AND SHALL INCLUDE THE DESIGN AND PLACEMENT OF RECOMMENDED BEST MANAGEMENT PRACTICES (BMP'S) TO EFFECTIVELY PROHIBIT THE ENTRY OF POLLUTANTS FROM THE CONSTRUCTION SITE INTO THE STORM DRAIN SYSTEM DURING CONSTRUCTION. THE APPLICANT/OWNER IS RESPONSIBLE FOR ENSURING THAT THE PROJECT CONTRACTORS AND SUBCONTRACTORS IMPLEMENT ALL APPLICABLE BMP'S.
37. ALL CATCH BASIN AND STORM DRAIN INLET FACILITIES SHALL BE STENCILED WITH THE APPROPRIATE "NO DUMPING" MESSAGE AS SUPPLIED BY THE PUBLIC WORKS DEPARTMENT, ENVIRONMENTAL DIVISION.
38. THE DEVELOPER'S ENGINEER SHALL KEEP A RECORD OF ALL CHANGES DURING CONSTRUCTION AND SHALL SUBMIT SUCH RECORDS TO THE CITY ENGINEER BEFORE A RELEASE OF OCCUPANCY WILL BE ISSUED.
39. IN THE EVENT THE DEVELOPER FAILS TO COMPLY WITH THE PROVISIONS OF THE PERMIT AND APPLICABLE LAWS. THE SURETY WILL PROMPTLY COMPLETE THE WORKS TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR. IN THE EVENT SAID SURETY FAILS TO PROMPTLY COMPLETE THE WORK AS APPROVED ON THE PLANS, THE SURETY SHALL PAY THE CITY ALL COST AND EXPENSES INCURRED BY THE CITY IN MAKING THE PREMISES SAFE AND COMPLETING THE PROJECT TO THE SATISFACTION OF THE CITY ENGINEER.

6.5 GENERAL NOTES FOR GRADING PLANS

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CHAPTER 15.52 OF THE UPLAND MUNICIPAL CODE AND ANY SPECIAL REQUIREMENTS OF THE PERMIT. A COPY OF THE APPROVED GRADING PLAN SHALL BE RETAINED ON THE JOB SITE WHILE WORK IS IN PROGRESS. WHEN REFERENCED ON THE PLANS, A COPY OF CITY OF UPLAND STANDARD PLANS SHALL ALSO BE RETAINED ON THE SITE.
2. GRADING SHALL NOT BE STARTED WITHOUT FIRST NOTIFYING THE CITY OF UPLAND PUBLIC WORKS INSPECTOR AT (909) 291-2963. A PRE-GRADING MEETING ON THE SITE IS REQUIRED BEFORE START OF GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOILS ENGINEER, ENGINEERING GEOLOGIST, AND CITY INSPECTOR. THE REQUIRED INSPECTIONS FOR GRADING WILL BE EXPLAINED AT THIS MEETING.
3. ISSUANCE OF A GRADING PERMIT DOES NOT ELIMINATE THE NEED FOR PERMITS FROM OTHER AGENCIES WITH REGULATORY RESPONSIBILITIES FOR CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE WORK AUTHORIZED ON THIS PLAN.
4. THE GRADING PERMIT AND AN APPROVED COPY OF THE GRADING PLAN SHALL BE ON THE PERMITTED SITE WHILE WORK IS IN PROGRESS.
5. PRELIMINARY SOIL AND GEOLOGY REPORTS AND ALL SUBSEQUENT REPORTS ARE CONSIDERED A PART OF THE APPROVED GRADING PLAN.
6. THE SOILS ENGINEER AND ENGINEERING GEOLOGIST SHALL PERFORM SUFFICIENT INSPECTIONS AND BE AVAILABLE DURING GRADING AND CONSTRUCTION TO VERIFY COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND THE CODE WITHIN THEIR PURVIEW.
7. THE CIVIL ENGINEER SHALL BE AVAILABLE DURING GRADING TO VERIFY COMPLIANCE WITH THE PLANS, SPECIFICATIONS, CODE AND ANY SPECIAL CONDITIONS OF THE PERMIT WITHIN THEIR PURVIEW.
8. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED IN WRITING BY THE SOILS ENGINEER BEFORE PLACING FILL.
9. FILLS SHALL BE BENCHED INTO COMPETENT MATERIAL AS REQUIRED BY THE SOILS ENGINEER.
10. ALL EXISTING FILLS SHALL BE APPROVED BY THE SOILS ENGINEER OR REMOVED BEFORE PLACING ADDITIONAL FILLS.
11. FILLS SHALL BE COMPACTED THROUGHOUT TO A MINIMUM OF 90% RELATIVE COMPACTION. AGGREGATE BASE FOR ASPHALTIC AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION. MAXIMUM DENSITY SHALL BE IN ACCORDANCE WITH CALIFORNIA BUILDING CODE (LATEST EDITION).
12. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN 2-FOOT HORIZONTAL TO 1-FOOT VERTICAL (2:1) EXCEPT WHERE SPECIFICALLY APPROVED OTHERWISE.
13. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY THE ENGINEERING GEOLOGIST TO DETERMINE IF ANY SLOPE STABILITY PROBLEM EXISTS. SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS OR POTENTIAL GEOLOGICAL HAZARDS, THE ENGINEERING GEOLOGIST SHALL SUBMIT RECOMMENDED TREATMENT TO THE CITY INSPECTOR FOR APPROVAL.

GENERAL NOTES FOR GRADING PLANS (CONTINUED)

14. ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE SOILS ENGINEER PER THE GRADING CODE.
15. ANY EXISTING IRRIGATION LINES AND CISTERNS SHALL BE REMOVED OR CRUSHED IN PLACE AND APPROVED BY THE CITY INSPECTOR AND SOILS ENGINEER.
16. ANY EXISTING WATER WELLS SHALL BE ABANDONED IN COMPLIANCE WITH THE SPECIFICATIONS APPROVED BY San Bernardino COUNTY DEPARTMENT OF PUBLIC HEALTH.
17. ANY EXISTING CESSPOOLS AND SEPTIC TANKS SHALL BE ABANDONED IN COMPLIANCE WITH THE CALIFORNIA PLUMBING CODE TO THE APPROVAL OF THE BUILDING OFFICIAL. A SEPARATE PERMIT MUST BE OBTAINED FROM THE CITY BUILDING DEPARTMENT.
18. THE CITY INSPECTOR, BEFORE EXCAVATION, SHALL APPROVE STOCKPILING OF EXCESS MATERIAL.
19. EXPORT SOIL MUST BE TRANSPORTED TO A LEGAL DUMP OR TO A PERMITTED SITE APPROVED BY THE CITY INSPECTOR.
20. THE PERMITTEE SHALL SUBMIT A HAUL ROUTE PLAN TO THE CITY ENGINEER WHEN EARTH AND/OR DEBRIS IS TRANSPORTED TO OR FROM A PERMITTED SITE ON PUBLIC ROADWAYS.
21. THE PERMITTEE IS RESPONSIBLE FOR DUST CONTROL MEASURES.
22. THE PERMITTEE SHALL GIVE REASONABLE NOTICE TO THE OWNER OF THE ADJOINING LANDS AND BUILDINGS BEFORE BEGINNING EXCAVATIONS, WHICH MAY AFFECT THE LATERAL AND SUBJACENT SUPPORT OF THE ADJOINING PROPERTY. THE NOTICE SHALL STATE THE INTENDED DEPTH OF EXCAVATION AND WHEN THE EXCAVATION WILL COMMENCE. THE PERMITTEE OR HIS AGENT SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIS/HER GRADING ACTIVITIES.
23. SLOPES EXCEEDING 5 FEET IN HEIGHT SHALL BE PLANTED WITH AN APPROVED PLANT MATERIAL. IN ADDITION, SLOPES EXCEEDING 15 FEET IN HEIGHT SHALL BE PROVIDED WITH AN APPROVED IRRIGATION SYSTEM UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
24. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
25. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE PERMITTEE.
26. ALL WATER VALVES AND SEWER MANHOLES SHALL REMAIN ACCESSIBLE AND FREE OF DEBRIS THROUGHOUT ALL PHASES OF THE PROJECT.
27. INSTALL $\frac{3}{4}$ " PLYWOOD FALSE BOTTOMS IN ALL SEWER MANHOLES WITHIN THE CONSTRUCTION AREA (CHECKED DAILY BY INSPECTOR).
28. PROVIDE TRAP AT FIRST MANHOLE DOWNSTREAM OF PROPOSED IMPROVEMENTS (CHECKED DAILY BY INSPECTOR).
29. APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS SHALL BE USED TO PROTECT ADJOINING PROPERTIES DURING GRADING.

GENERAL NOTES FOR GRADING PLANS (CONTINUED)

30. GRADING OPERATIONS, INCLUDING MAINTENANCE OF EQUIPMENT, SHALL BE CONDUCTED BETWEEN THE HOURS OF 7:00 A.M. AND 3:30 P.M. MONDAY THROUGH FRIDAY. NO WORK SHALL BE ALLOWED ON WEEKENDS.
 - A ALL CONSTRUCTION VEHICLES OR EQUIPMENT, FIXED OR MOBILE, OPERATED WITHIN 1,000 FEET OF A DWELLING SHALL BE EQUIPPED WITH PROPERLY OPERATING AND MAINTAINED MUFFLERS.
 - B ALL OPERATIONS SHALL COMPLY WITH CITY OF UPLAND NOISE ORDINANCE (CHAPTER 4.5, UNNECESSARY NOISE.)
 - C STOCKPILING AND/OR VEHICLE STAGING AREAS SHALL BE LOCATED AS FAR AS PRACTICABLE FROM DWELLINGS AND WITHIN THE LIMITS OF GRADING PERMIT.
31. GRADING AND EXCAVATION SHALL BE HALTED DURING PERIODS OF HIGH WINDS. ACCORDING TO AQMD MEASURE F-4, HIGH WINDS ARE DEFINED AS 30 MPH OR GREATER. THIS LEVEL OCCURS ONLY UNDER EXTREME CONDITIONS, SUCH AS SANTA ANA WIND CONDITIONS. USE WATER TRUCK FOR DUST CONTROL.
32. THE CIVIL ENGINEER, AS A CONDITION OF ROUGH GRADE APPROVAL, SHALL PROVIDE A BLUE TOP WITH ACCOMPANYING WITNESS STAKE, SET AT THE CENTER OF EACH PAD REFLECTING THE PAD ELEVATION FOR PRECISE PERMITS AND A BLUE TOP WITH WITNESS STAKE SET AT THE DRAINAGE SWALE HIGH POINT REFLECTING THE HIGH POINT ELEVATION FOR ROUGH GRADING PERMITS.
33. THE ENGINEERING GEOLOGIST SHALL PERFORM PERIODIC INSPECTIONS AND SUBMIT A COMPLETE REPORT AND MAP UPON COMPLETION OF THE ROUGH GRADING.
34. THE GRADING CONTRACTOR SHALL SUBMIT A STATEMENT OF COMPLIANCE TO THE APPROVED GRADING PLAN BEFORE FINAL APPROVAL.
35. IN THE EVENT THAT SOIL CONTAMINATION IS DISCOVERED DURING EXCAVATION OR REMOVAL OF AN EXISTING TANK IS NECESSARY, WORK SHALL BE STOPPED UNTIL A SITE ASSESSMENT AND MITIGATION PLAN HAS BEEN PREPARED, SUBMITTED AND APPROVED BY COUNTY OF SAN BERNARDINO DEPARTMENT OF ENVIRONMENTAL HEALTH.
36. THE DEVELOPER SHALL BE RESPONSIBLE FOR SUBMITTING TO THE CITY PROOF THAT A NOTICE OF INTENT (NOI) FOR THE GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY HAS BEEN FILED WITH AND APPROVED BY THE STATE WATER RESOURCES CONTROL BOARD. CONSTRUCTION SHALL NOT COMMENCE WITHOUT THIS APPROVAL. THE DEVELOPER SHALL BE RESPONSIBLE TO COMPLY WITH THE GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT BY IMPLEMENTING THEIR STORM WATER POLLUTION PREVENTION PLAN FOR THE DURATION OF THE PROJECT. INDICATE WDD NUMBER ON PLANS.

6.6 GENERAL NOTES FOR EROSION CONTROL PLANS

1. IN THE CASE OF EMERGENCY, CALL _____ AT WORK PHONE NUMBER _____
_____ OR HOME PHONE NUMBER _____.
2. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE CITY INSPECTOR.
4. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
5. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS, AND BASINS.
6. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
7. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
8. THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND ENSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.
9. ANY SLOPES WITH DISTURBED SOILS OR DENUDED VEGETATION MUST BE STABILIZED TO INHIBIT EROSION BY WIND AND WATER.
10. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
11. CONSTRUCTION SITES SHALL BE MAINTAINED BY IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMP) IN SUCH A MANNER THAT POLLUTANTS ARE NOT DISCHARGED FROM THE SITE TO THE MAXIMUM EXTENT PRACTICABLE.
12. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE, OR WIND.
13. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND AND WATER.
14. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.

GENERAL NOTES FOR EROSION CONTROL PLANS (CONTINUED)

15. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC RIGHT-OF-WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
16. ALL NON-STORMWATER DISCHARGES, UNLESS ACCEPTED OR AUTHORIZED BY AN NPDES PERMIT, REQUIRE PRIOR APPROVAL BY THE STATE WATER RESOURCES CONTROL BOARD.
17. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.

6.7. GENERAL FOR NOTES TRAFFIC CONTROL

1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE WORK AREA TRAFFIC CONTROL HANDBOOK (W.A.T.C.H) LATEST EDITION.
2. ALL STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA, STANDARD PLANS AND SPECIFICATIONS, AND THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), LATEST EDITION.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES.
4. FLASHING YELLOW BEACONS TYPE "B" SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK AREA OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE PER THE LATEST EDITION OF THE CALIFORNIA M.U.T.C.D.
6. ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH INTENSITY REFLECTORIZED SLEEVE, IF USED DURING NIGHT-TIME HOURS.
7. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS.
10. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS, OR BARRICADING MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
12. MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC. FROM TRAVEL LANE.
13. REMOVE OR TURN OFF SIGNS DURING NON-WORK HOURS.
14. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR AND/OR PUBLIC WORKS INSPECTOR.
15. WORK HOURS SHALL BE 7:00 A.M. – 3:30 P.M., MONDAY THROUGH FRIDAY UNLESS NOTED ON THE PERMIT.

GENERAL FOR NOTES TRAFFIC CONTROL (Continued)

16. PRE-CONSTRUCTION MEETINGS SHALL BE ARRANGED WITH THE PUBLIC WORKS INSPECTOR & TRAFFIC ENGINEER.