CITY OF SAN BERNARDINO
ROOSEVELT II ELEMENTARY SCHOOL
PRECISE GRADING PLAN

GRADING NOTES:

1. ALL GRADING SHALL CONFORM TO THE CITY OF SAN BERNARDINO GRADING CODE AND MANUAL
2. MINIMUM BUILDING PAD AND DRAINAGE SWALE SLOPE SHALL BE 1%. DRAINAGE SWALES SHALL BE A MINIMUM OF 0.2' DEEP AND BE CONSTRUCTED A MINIMUM OF 2 FEET FROM THE TOP OF CUT OR FILL SLOPES.
3. MAXIMUM CUT AND FILL SLOPES = 2: 1.
4. PROVIDE 4' WIDE BY 1' HIGH BERM OR EQUIVALENT ALONG THE TOP OF ALL FILL SLOPES OVER 5' HIGH.
5. ALL GRADING SHALL BE DONE UNDER THE SUPERVISION OF A COMPETENT SOILS ENGINEER WHO SHALL CERTIFY THAT ALL FILL HAS BEEN PROPERLY PLACED AND WHO SHALL SUBMIT A FINAL COMPACTION REPORT FOR ALL FILLS OVER 1' DEEP.
6. A REGISTERED CIVIL ENGINEER SHALL SUBMIT TO THE CITY ENGINEERING DEPARTMENT WRITTEN CERTIFICATION OF COMPLETION OF ROUGH GRADING IN ACCORDANCE WITH THE APPROVED GRADING PLAN PRIOR TO ISSUANCE OF THE BUILDING PERMIT. CERTIFICATION SHALL INCLUDE LINE, GRADE, ELEVATION AND LOCATION OF CUT/FILL SLOPES.
7. PROVIDE A BROW DITCH, DESIGNED TO HANDLE 100 YEAR Q STORM FLOWS, ALONG TOP CUT OF SLOPE.
8. ALL GRADING SHALL BE DONE IN CONFORMANCE WITH RECOMMENDATIONS CONVERSE CONSULTANTS OF THE PRELIMINARY SOILS INVESTIGATION BY DATED: NOVEMBER 20, 2006 TWO SETS OF THE FINAL COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT WHICH SHALL INCLUDE FOUNDATION DESIGN RECOMMENDATIONS AND CERTIFICATION THAT GRADING HAS BEEN DONE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE PRELIMINARY SOILS REPORT. (A)
9. THE CONTRACTOR SHALL NOTIFY THE CITY OF SAN BERNARDINO ENGINEER DEPARTMENT AT LEAST 24 HOURS IN ADVANCE REQUESTING FINISH LOT GRADE AND DRAINAGE INSPECTION. THIS INSPECTION MUST BE APPROVED PRIOR TO BUILDING PERMIT FINAL INSPECTION FOR EACH LOT.
10. CUT SLOPES EQUAL TO OR GREATER THAN 5' IN VERTICAL HEIGHT AND FILL SLOPES EQUAL TO OR GREATER THAN 3' IN VERTICAL HEIGHT SHALL BE PLANTED WITH GRASS OR GROUND COVER TO PROTECT THE SLOPE FROM EROSION AND INSTABILITY IN ACCORDANCE WITH THE CITY GRADING CODE PRIOR TO THE APPROVAL OF FINAL INSPECTION.
11. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL.
12. IF STEEP SLOPPING TERRAIN OCCURS UPON WHICH FILL IS TO BE PLACED, IT MUST BE CLEARED, KEYED, AND BENCHED INTO FIRM NATURAL SOIL FOR FULL SUPPORT. PREPARATION SHALL BE APPROVED BY A REGISTERED ENGINEER PRIOR TO PLACEMENT OF FILL MATERIAL.
13. DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL SHOULD BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO ADJACENT PROPERTIES.
14. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
15. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION, ESPECIALLY DURING STORM CONDITIONS. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING GRADING OPERATIONS.
16. STABILITY CALCULATIONS WITH A FACTOR OF AT LEAST ONE AND FIVE TENTHS (1.5) SHALL BE SUBMITTED BY A SOILS ENGINEER TO THE CITY ENGINEERING DEPARTMENT FOR CUT AND FILL SLOPES OVER 30' IN VERTICAL HEIGHT.
17. A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR SHALL SUBMIT CERTIFICATION OF BUILDING PAD ELEVATION. WHERE SPECIFIC ELEVATIONS ARE REQUIRED, THE ELEVATION (WITH RESPECT TO MEAN SEA LEVEL) SHALL BE GIVEN. IF AN ELEVATION WITH RESPECT TO ADJACENT GROUND SURFACE IS REQUIRED, THE ACTUAL DISTANCE ABOVE THE ADJACENT GROUND SHALL BE GIVEN.
18. EROSION CONTROL: ALL SLOPES SHALL BE PLANTED WITH AN APPROVED GROUND COVER. SLOPES OVER 15' IN VERTICAL HEIGHT, IN ADDITION TO GROUND COVER, SHALL BE PLANTED WITH APPROVED TREES, SHRUBS, OR COMBINATION THEREOF. SHRUBS SHALL BE PLANTED 10' ON CENTERS; TREES, 20' ON CENTER; COMBINATIONS, 15' ON CENTER. SLOPES OVER 4' IN VERTICAL HEIGHT SHALL HAVE PERMANENT IRRIGATION SYSTEMS WITH BACK FLOW PREVENTION DEVICES PER U.P.C. CHAPTER 10.R.
19. FINISH GRADE SHALL BE SLOPED AWAY FROM ALL EXTERIOR WALLS AT NO LESS THAN 2% PER FOOT FOR A MINIMUM OF 3 FEET.
20. NO OBSTRUCTION OF FLOOD PLAINS OR NATURAL WATER SOURCES SHALL BE PERMITTED.
21. ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION/GRADING.
22. WORK MAY NOT START UNTIL PERMITS HAVE BEEN OBTAINED.
23. PURSUANT TO THE CITY OF SAN BERNARDINO MUNICIPAL CODE 15.52.150, GRADING AND EQUIPMENT OPERATION WITHIN ONE-HALF (1/2) MILE OF A STRUCTURE FOR HUMAN OCCUPANCY SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 8:00 PM AND 7:00 AM, NOR ON SUNDAY AND FEDERAL HOLIDAYS WITHOUT THE APPROVAL OF CITY ENGINEER.
24. APPROVAL OF THESE PLANS BY THE CITY OR ITS AGENTS DOES NOT RELIEVE THE APPLICANT AND HIS ENGINEER FROM THE RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE APPROPRIATE PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR REVIEW APPROVAL.
25. AUGUST 2005 SOURCE OF TOPOGRAPHY: AERO TECH SURVEYS
26. SEPARATE HAUL PERMIT IS REQUIRED FOR ANY IMPORT/EXPORT OF MATERIAL TO/FROM THE PROJECT SITE.
27. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY LANDSCAPE ARCHITECT AT LEAST 24 HOURS PRIOR TO BEGINNING OF ANY CONSTRUCTION. ALSO, THE CITY LANDSCAPE ARCHITECTS SHALL BE NOTIFICD AT LEAST 24 HOURS BEFORE ANY CONCRETE CURB POURS ARE MADE. THE CITY LANDSCAPE ARCHITECT'S PHONE NUMBER IS (951) 698-0122.
28. THE APPLICANT IS HEREBY NOTICED THAT THEY MUST COMPLY WITH ALL STATE AND FEDERAL ENDANGERED SPECIES LAW. THE CITY OF SAN BERNARDINO IS NOT RESPONSIBLE FOR ANY SUCH VIOLATION OF STATE OR FEDERAL ENDANGERED SPECIES LAW DUE TO THE APPLICANT'S NON-COMPLIANCE.

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C-6	PRECISE GRADING
C-7	STORM DRAIN PLAN
C-8	STORM DRAIN PLAN
C-9	EROSION CONTROL PLAN
C-10	STANDARD AND DETAIL SHEET

PAVING NOTES:

1. MINIMUM PARKING LOT GRADE SHALL BE 1%.
2. MINIMUM GRADE FOR RIBBON DRAINS SHALL BE 0.5 PERCENT (0.5%).
3. AN APPROVED SOIL STERILIZER SHALL BE USED ON ALL SUBGRADE SURFACES PRIOR TO PLACEMENT OF PAVING.
4. ASPHALTIC EMULSION (FOG SEAL) SHALL BE APPLIED NOT LESS THAT FOURTEEN (14) DAYS FOLLOWING PLACEMENT OF THE ASPHALT SURFACING AND SHALL BE APPLIED AT A RATE OF 0.05 GALS. PER SQUARE YARD. ASPHALTIC EMULSION SHALL CONFORM TO SECTIONS 37, 39, AND 94 OF THE STATE STANDARD SPECIFICATIONS.
5. THE SUBDIVIDER OR CONTRACTOR SHALL APPLY TO CITY DEPARTMENT OF PUBLIC WORKS FOR AN ENCROACHMENT PERMIT FOR ALL WORK WITHIN THE CITY RIGHT OF WAY.
6. TWO SPECIAL INSPECTIONS ARE REQUIRED BY THE DEPARTMENT OF PUBLIC WORKS, ONE INSPECTION AT THE TIME THE BASE IS PLACED AND THE SECOND WHEN THE A.C. HAS BEEN PLACED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING OF THE PROPOSED WORK AREA, AND RELOCATION AND COST OF ALL EXISTING UTILITIES. THE CITY SHALL BE INFORMED 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
8. A COMPACTION REPORT BY A SOILS ENGINEER SHALL CERTIFY 95 PERCENT (95%) COMPACTION OF BASE PRIOR TO CALL FOR SECOND INSPECTION AND PLACEMENT OF ASPHALT PAVING.
9. COMPACTION TEST OBSERVATION OF SUBGRADE OR BASE ROCK GRADE SHALL BE COORDINATED BY THE CONTRACTOR WITH THE SOILS ENGINEER AND THE PROJECT INSPECTOR. ALL GRADE INSPECTIONS WILL BE IN CONJUNCTION WITH OR PRECEDED BY COMPACTION TESTING.

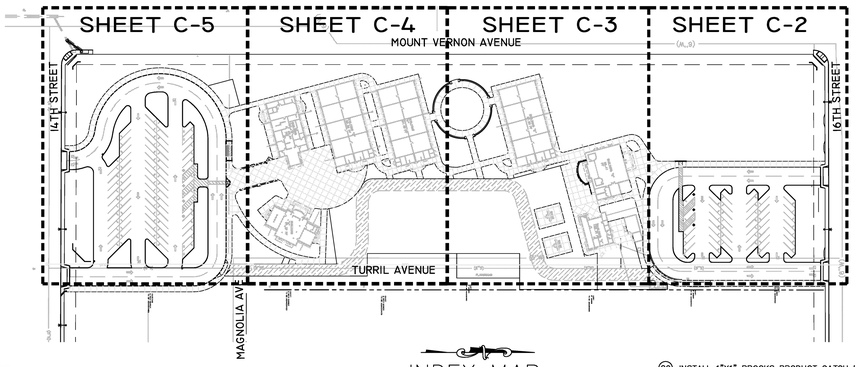
"DECLARATION OF RESPONSIBLE CHARGE"

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF MURRIETA IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

DATE:

MARIA I. FRASER
R.C.E. 56005
EXPIRES 12/31/12



INDEX MAP

SCALE: 1" = 100'

LEGEND:

PROPOSED FIRE LANE

CONSTRUCTION NOTES:

1. CONSTRUCT 4" AC PAVEMENT OVER 9" AC BASE (CLASS II)
2. CONSTRUCT 5" AC PAVEMENT OVER 11" AC BASE (CLASS II)
3. CONSTRUCT 3.5" AC PAVEMENT OVER 6.5" AC BASE (CLASS II)
4. CONSTRUCT 4.0" THICK P.C.C. SIDEWALK
5. CONSTRUCT 6" CURB FACE PER CITY OF SAN BERNARDINO STD 200
6. CONSTRUCT TYPE "C" 6" CURB AND GUTTER PER CITY OF SAN BERNARDINO STD 200
7. COMMERCIAL DRIVE APPROACH PER SEPARATE STREET IMPROVEMENT PLANS
8. CONSTRUCT 25' TYPE I COMMERCIAL DRIVEWAY PER CITY OF SAN BERNARDINO STD 204 MODIFIED AND DETAIL 14 ON SHEET A-1.30
9. INSTALL PARKING LOT CATCH BASIN PER CITY OF SAN BERNARDINO STD 402
10. INSTALL PARKING LOT LIGHTING PER SEPARATE LIGHTING PLAN
11. PARKWAY CULVERT PER SEPARATE STREET IMPROVMENT PLANS
12. REMOVE EXISTING SEWER MANHOLE
13. INSTALL FENCE PER ARCHITECTURAL PLANS AND DETAILS
14. INSTALL FENCE PER ARCHITECTURAL PLANS AND DETAILS
15. INSTALL GATE PER ARCHITECTURAL PLANS AND DETAILS
16. CONSTRUCT TRASH ENCLOSURE PER DETAIL 5 ON ARCHITECTURAL PLAN SHEET A-1.4
17. CONSTRUCT PASSENGER DROP OFF AREA PER DETAIL 22 ON ARCHITECTURAL PLAN SHEET A-1.5. W= PER PLAN
18. INSTALL PEDESTRIAN GATE PER ARCHITECTURAL PLANS AND DETAILS
19. INSTALL PEDESTRIAN GATE PER ARCHITECTURAL PLANS AND DETAILS
20. INSTALL 12" HDPE STORM DRAIN
21. INSTALL 24" HDPE STORM DRAIN
22. INSTALL 2'X2' BROOKS PRODUCT CATCH BASIN OR EQUAL
23. INSTALL 2'X2' BROOKS PRODUCT CATCH BASIN OR EQUAL WITH FOSSIL FILTER
24. INSTALL 4" PVC PIPE
25. CONSTRUC ACCESS RAMP PER DETAIL 13 ON SHEET A-1.3
26. NOT USED
27. INSTALL 8" HDPE STORM DRAIN
28. INSTALL 1"X1" BROOKS PRODUCT CATCH BASIN OR EQUAL
29. ABANDON AND CRUSH IN PLACE EXISTING 8 INCH SEWER AND LATERALS
30. INSTALL 3' CONCRETE GUTTER PER DETAIL ON SHEET 10
29. INSTALL 1"X1" BROOKS PRODUCT CATCH BASIN OR EQUAL WITH FOSSIL FILTER
30. PLACE SANDBAG ROW 2 BAGS HIGH PER DETAIL ON SHEET10
31. PLACE GRAVEL BAG CATCH BASIN CHECK DAM PER DETAIL ON SHEET 10
32. INSTALL STABILIZED CONSTRUCTION ENTRY (MIN 3"-6") PER DETAIL ON SHEET 8
33. CONSTRUCT ACCESS RAMP PER DETAIL 18 ON SHEET A-1.3
34. INSTALL 3' CONCRETE CROSS GUTTER PER DETAIL ON SHEET 5
34. FLARED END SECTION PER CALTRANS STANDARD D-94B. DETAIL ON SHEET 6
35. CUT AND CAP EXISTING SEWER LINE 5 FEET NORTH SIDEWALK
36. PROTECT SEWER LINE IN PLACE BETWEEN MAINLINE CONNECTION AND 5 FEET NORTH OF SIDEWALK

FIRM MAP

COMMUNITY-PANEL NUMBER:
06071C7940 F

EFFECTIVE DATE:
MARCH 18, 1996

ZONE X

A SEPARATE PERMIT IS REQUIRED FOR DISPOSITION OF EXCESS EARTH MATERIAL.

EARTHWORK:

RAW CUT: 1,880 CY
RAW FILL: 18,913 CY
NET FILL: 17,033 CY

GRADING QUANTITY NOTE:

EARTHWORK QUANTITIES ARE RAW NUMBER TO BE USED FOR PERMIT PURPOSES ONLY. THESE FIGURES DO NOT INCLUDE REMEDIAL QUANTITIES, BULKING OR SHRINKAGE FACTORS, CONTRACTOR SHALL VERIFY QUANTITIES FOR CONSTRUCTION BID PURPOSES.

SOILS ENGINEER:

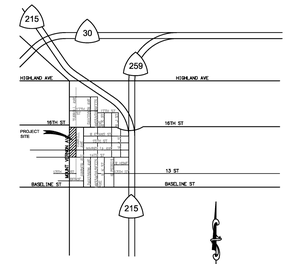
CONVERSE CONSULTANTS
10391 CORPORATE DRIVE
REDLANDS, CA 92374
PHONE: (909) 796-0544
FAX: (900) 796-7675
ATTN: HASHMI S. E. QUAZI

SOILS REPORT:

PRELIMINARY GEOTECHNICAL INVESTIGATION REPORT
ROOSEVELT II - ELEMENTARY SCHOOL
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT
CONVERSE PROJECT NO. 04-81-156-02
NOVEMBER 20, 2006

UTILITY PURVEYORS:

WATER - CITY OF SAN BERNARDINO WATER DEPT.
SEWER - CITY OF SAN BERNARDINO REFUSE
GAS - SOUTHERN CALIFORNIA GAS
ELECTRIC - SOUTHERN CALIFORNIA EDISON



VICINITY MAP
NTS

EROSION CONTROL NOTES:

SEE SHEET NO. 6 FOR EROSION CONTROL PLAN

1. IN CASE OF EMERGENCY, CALL _____
   WORK: _____
   HOME: _____
   CELL: _____
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. DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE ENGINEERING DEPARTMENT.
4. ALL REMOVABLE PROTECTIVE DEVICES SHOWN 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 CHECK BERMS AND DESILTING BASINS, AND THE BASINS PUMPED DRY.
6. GRADED AREAS AROUND THE TRACT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE AND TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
8. SANDBAG LAYOUT SHALL BE INSTALLED AS SHOWN PER PLAN OR AS DIRECTED BY THE CITY INSPECTOR.

NOTIFICATIONS:

CONTRACTOR SHALL NOTIFY CITY OF SAN BERNARDINO AT (909) 384-5111, AT LEAST 2 WORKING DAYS IN ADVANCE OF STARTING CONSTRUCTION.

AT LEAST 2 WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION CONTRACTOR SHALL NOTIFY:

CITY OF SAN BERNARDINO WATER DEPARTMENT	(909) 384-5139
CITY OF SAN BERNARDINO REFUSE	(909) 384-5054
UNDERGROUND SERVICE ALERT	(800) 227-2600

BASIS OF BEARING

THE CENTERLINE OF HERRINGTON AVENUE BEING S 00 DEGREES 00' 49" E WAS SHOWN ON RECORD OF SURVEY RECORDED IN BOOK 54 PAGE 36 OF RECORDS OF SURVEYS AS FILED IN THE OFFICE OF THE COUNTY RECORDER, COUNTY OF SAN BERNARDINO, CA

SCHOOL DISTRICT:

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

PROJECT ADDRESS:

SOUTHEAST CORNER OF MOUNT VERNON AVE AND 16TH STREET
SAN BERNARDINO, CA 92376

ASSESSOR'S PARCEL NO.

0139-067-001 THRU 021
0139-062-001 THRU 018

TOPOGRAPHY SOURCE:

FIELD SURVEY: AUGUST 2005
BY: AERO TECH SURVEYS, RIVERSIDE, CA
TOPOGRAPHIC CONTOURS UPDATED JULY 28, 2011
UPDATED BY: JOSEPH E. BONADIMAN & ASSOCIATES, INC

THOMAS BROS. COORD.:

PAGE 576, E-5 (2005)

OWNER / APPLICANT:

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT
777 NORTH F STREET
SAN BERNARDINO, CA 92410
(909) 381-1100

E0901510

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

MARK	REVISIONS	BY	APPR.	DATE

BENCHMARK = CITY OF SAN BERNARDINO BM# G1-41.
ELEVATION 1158.763 FT.

BRASS DISK CSB G1-41. 41.25 FT. EAST & 30.0 FT SOUTH OF THE CENTERLINE P.L. OF MT. VERNON & 14TH ST. ±9.75 FT. SOUTH OF THE SOUTH CURBLINE OF 14TH ST. 9.25 FT. EAST OF THE EAST CURBLINE OF MT.VERNON AVE. ' 2.0 FT EAST OF THE NORTH/SOUTH SIDEWALK ABOUT 0.2 FEET LOWER THEN THE PAVEMENT.

Fraco Enterprises Inc
Engineering and Construction Services
12139 MOUNT VERNON AVENUE, SUITE 210
GRAND TERRACE, CA 92313
TEL (909) 824-7230 FAX (909) 824-7385

REGISTERED PROFESSIONAL ENGINEER
MARIA I. FRASER
No. 56005
EXP. DATE 12/31/12
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

MARIA I. FRASER
RCE NO. 56005
EXP. 12/31/2012
DATE

DESIGNED BY: JRN, SM
DRAWN BY: JRN, SM
CHECKED BY: MIF

CITY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:

ROBERT G. EISENBEISZ, P.E.
CITY ENGINEER
RCE NO. 54931, EXP. 6/30/2012
DATE

CITY OF SAN BERNARDINO
DEVELOPMENT SERVICES—PUBLIC WORKS/ENGINEERING

PRECISE GRADING PLAN
ROOSEVELT II ELEMENTARY SCHOOL

TITLE SHEET

FOR CITY USE ONLY: FILE NO. W.O. NO.

DRAWING NO. 12343

SHEET C-1 OF 10 SHEETS

PLOTTED 7-7-11

RE-BID #F09-02 ROOSEVELT II (HENRY) E.S. NEW CONSTRUCTION BID ISSUANCE SET 12/09/11