

GENERAL NOTES:

- 1. All grading and construction shall conform to Appendix Chapter 33 and Chapter 71 (Latest addition) of the Los Angeles Building Code unless specifically noted on these plans.
2. Any modifications of or changes to approved grading plans must be approved by the Building Official.
3. No grading shall be started without first notifying the Building Official.
4. Approval of these plans reflect solely the review of plans in accordance with the Los Angeles County Building Code and does not reflect any position by the County of Los Angeles or the Department of Public Works regarding the status of any title issues relating to the land on which the improvements may be constructed.
5. All grading and construction activities shall comply with Los Angeles County Code, Title 12, Section 12.12.030 that controls and restricts noise from the use of construction and grading equipment from the hours of 8:00 PM to 6:30 AM, and on Sundays and Holidays.
6. California Public Resources Code (Section 5097.98) and Health and Safety Code (Section 7050.5) address the discovery and disposition of human remains.
7. The location and protection of all utilities is the responsibility of the permittee.
8. All export of material from the site must go to a permitted site approved by the Building Official or a legal dump site.
9. A copy of the grading permit and approved grading plans must be in the possession of a responsible person and available at the site at all times.
10. Site boundaries, easements, drainage devices, restricted use areas shall be located per construction staking by field engineer or licensed surveyor.
11. No grading or construction shall occur within the protected zone by any oak tree as required per Title Chapter 22.56 of the Los Angeles County Zoning Code.
12. If an oak tree permit is obtained: (Add the following note:)
13. All grading and construction within the protected zone of all oak trees shall be per oak tree permit no.
14. The standard retaining wall details shown on the grading plans are for reference only.
15. A preventing program to protect the slopes from potential damage from burrowing rodents is required per Section 3307.6 of the Los Angeles County Building Code.
16. If grading authorized by this plan is to extend through the rainy season, November 1 through April 15 of the following year, separate updated plans for erosion control must be submitted prior to October per Section 3319.3 of the Los Angeles County Building Code.
17. Transfer of Responsibility: If the civil engineer, the soils engineer, or the engineering geologist of record is changed during grading, the work shall be stopped until the replacement has agreed in writing to accept their responsibility within the area of technical competence for approval upon completion of the work.
18. The permittee or his agent shall notify the Building Official at least one working day in advance of required inspections at following stages of the work.
19. In addition to the inspection required of the Building Official for regular grading, reports and statements shall be submitted to the Building Official in accordance with Sections 3317 and 3318 of the Building Code.
20. All graded sites must have drainage swales, berms, and other drainage devices prior to approval of rough grading per Section 3317.6 of the Los Angeles County Building Code.

- 21. The grading contractor shall submit the statement to the grading inspector as required by Section 3318.1 of the Los Angeles County Building Code at the completion of rough grading.
22. Final grading must be approved before occupancy of buildings will be allowed per Section 3318 of the Los Angeles County Building Code.
23. Roof drainage must be diverted from graded slopes.
24. Provisions shall be made for contributory drainage at all times.
25. All construction and grading within a storm drain easement are to be done per Private Drain PD No. or miscellaneous Transfer Drain MTD No.
26. All storm drain work is to be done under continuous inspection by the Field Engineer.
27. An encroachment permit from (Los Angeles County Department of Public Works) is required for all work within or affecting road right of way.
28. An encroachment permit/connection permit is required from Los Angeles County Flood Control District for all work within the Los Angeles County Flood Control District Right of Way.
29. Permission to operate in Fire Zone 4 must be obtained from the Fire Prevention Bureau or the local Fire Station prior to commencing work.
30. All work within the streambed and areas outlined on grading plans shall conform to: Army Corp 404 Permit Number N/A, California Fish & Game Permit No. N/A.

- 31. All work must be in compliance with the recommendations included in the geotechnical consultant's report(s) and the approved grading plans and specifications.
32. Grading operations must be conducted under periodic geologic inspections with monthly inspection reports to be submitted to the Geology and Soils Section.
33. The Geotechnical Engineer shall provide sufficient inspections during the preparation of the natural ground and the placement and compaction of the fill to be satisfied that the work is being performed in accordance with the plan and applicable City requirements.
34. Rough grading must be approved by a final engineering geology and soils engineering report.
35. Foundation, wall and pool excavations must be inspected and approved by the consulting and geotechnical engineer, prior to the placing of steel or concrete.
36. Building pads located in cut/fill transition areas shall be over-excavated a minimum of three (3) feet below the proposed bottom of footing.

GENERAL GEOTECHNICAL NOTES

- 37. Foundation, wall and pool excavations must be inspected and approved by the consulting and geotechnical engineer, prior to the placing of steel or concrete.
38. Building pads located in cut/fill transition areas shall be over-excavated a minimum of three (3) feet below the proposed bottom of footing.
39. All fill shall be compacted to the following minimum relative compaction criteria:
40. The relative compaction shall be determined by A.S.T.M. soil compaction test D1557-91, Method "D", where applicable; Where not applicable, a test acceptable to the Building Official shall be used.
41. Field density shall be determined by a method acceptable to the Building Official.
42. Sufficient tests of the fill soils shall be made to determine the relative compaction of the fill on accordance with the following minimum guidelines:
43. Sufficient tests of fill soils shall be made to verify that the soil properties comply with the design requirements, as determined by the Geotechnical Engineer including soil types, shear strengths parameters and corresponding unit weights in accordance with the following guidelines:
44. Fill shall not be placed until stripping of vegetation, removal of unsuitable soils, and installation of subdrain (if any) have been inspected and approved by the Geotechnical Engineer.

FILL NOTES

- 45. Rock or similar material greater than 12 inches in diameter shall not be placed in the fill unless recommendations for such placement have been submitted by the Geotechnical Engineer and approved in advance by the Building Official.
46. Continuous inspection by the Geotechnical Engineer, or a responsible representative, shall be provided during all fill placement and compaction operations where fills have a depth greater than 30 feet or slope surface steeper than 2:1.
47. Continuous inspection by the Geotechnical Engineer, or a responsible representative, shall be provided during all subdrain installations.
48. All subdrain outlets are to be surveyed for line and elevation.
49. Fill slope in excess of 2:1 steepness ratio are to be constructed by the placement of soil at sufficient distance beyond the proposed finish slope to allow compaction equipment to be operated at the outer limits of the final slope surface.
50. Planting and irrigation on graded slopes must comply with the following minimum guidelines:
51. The planting and irrigation systems shall be installed as soon as practical after rough grading.
52. This project requires a landscape plan per Chapter 71 of the County of Los Angeles Building Code.
53. The project requires a landscape plan per Chapter 71 of the County of Los Angeles Building Code.
54. The project requires a landscape plan per Chapter 71 of the County of Los Angeles Building Code.

- 45. Rock or similar material greater than 12 inches in diameter shall not be placed in the fill unless recommendations for such placement have been submitted by the Geotechnical Engineer and approved in advance by the Building Official.
46. Continuous inspection by the Geotechnical Engineer, or a responsible representative, shall be provided during all fill placement and compaction operations where fills have a depth greater than 30 feet or slope surface steeper than 2:1.
47. Continuous inspection by the Geotechnical Engineer, or a responsible representative, shall be provided during all subdrain installations.
48. All subdrain outlets are to be surveyed for line and elevation.
49. Fill slope in excess of 2:1 steepness ratio are to be constructed by the placement of soil at sufficient distance beyond the proposed finish slope to allow compaction equipment to be operated at the outer limits of the final slope surface.
50. Planting and irrigation on graded slopes must comply with the following minimum guidelines:
51. The planting and irrigation systems shall be installed as soon as practical after rough grading.
52. This project requires a landscape plan per Chapter 71 of the County of Los Angeles Building Code.
53. The project requires a landscape plan per Chapter 71 of the County of Los Angeles Building Code.
54. The project requires a landscape plan per Chapter 71 of the County of Los Angeles Building Code.

PLANTING AND IRRIGATION NOTES

- 55. The planting and irrigation systems shall be installed as soon as practical after rough grading.
56. This project requires a landscape plan per Chapter 71 of the County of Los Angeles Building Code.
57. The project requires a landscape plan per Chapter 71 of the County of Los Angeles Building Code.
58. The project requires a landscape plan per Chapter 71 of the County of Los Angeles Building Code.

STORMWATER POLLUTION PLAN NOTES

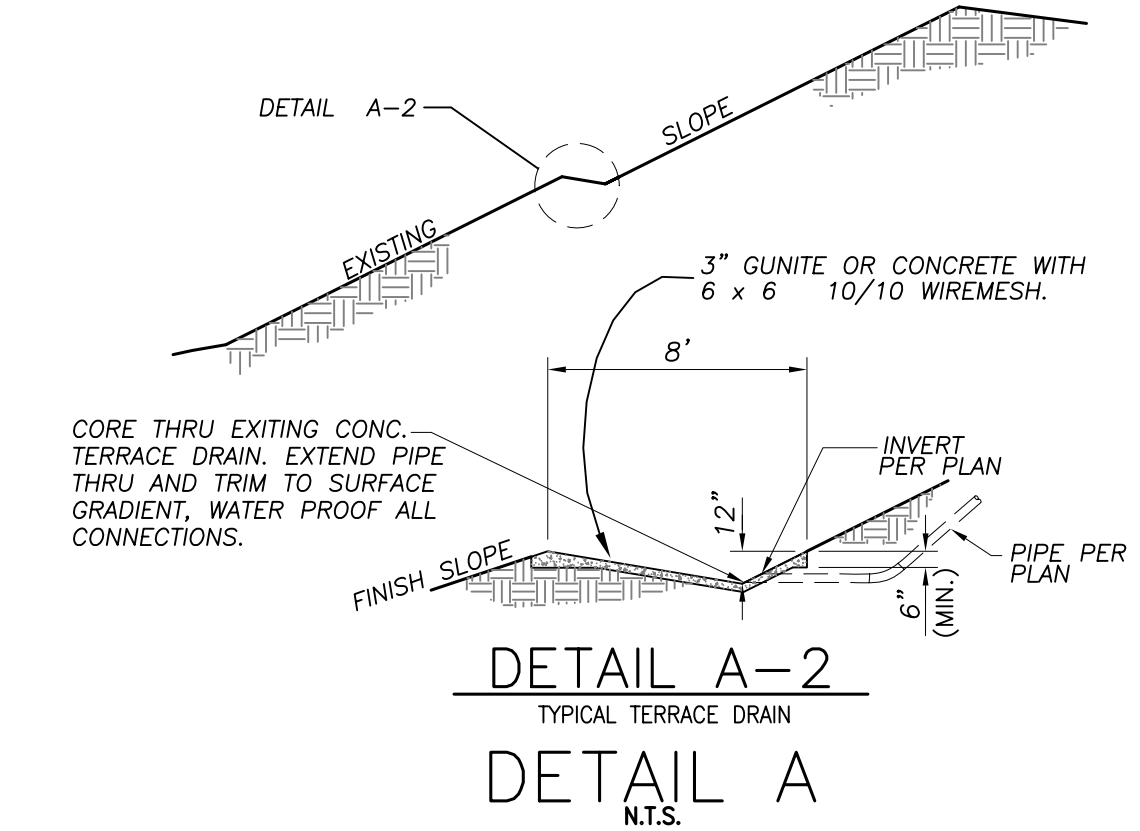
- 59. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORMWATER FROM THE PROJECT AT ALL TIMES.
60. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSE, OR WIND.
61. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIAL MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
62. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIAL MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS.
63. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM.
64. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
65. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC.
66. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
67. AS THE PROJECT OWNER AUTHORIZED AGENT OF THE OWNER, I HAVE READ AND UNDERSTAND THE REQUIREMENTS LISTED ABOVE, NECESSARY TO CONTROL STORM WATER POLLUTION FROM SEDIMENTS, EROSION, AND CONSTRUCTION MATERIALS, AND CERTIFY THAT I WILL COMPLY WITH THESE REQUIREMENTS.

CONTRACTORS NOTE:

THE EARTHWORK QUANTITIES ARE PROVIDED AS A COURTESY AND CONVENIENCE TO THE OWNERS, AND ARE FOR BONDING AND PLAN CHECK PURPOSES ONLY. THE YARDAGE FIGURES SHOWN ARE APPROXIMATE CALCULATED QUANTITIES BASED ON THE DIFFERENCE BETWEEN EXISTING GROUND ELEVATIONS AND DESIGNED ROUGH GRADE ELEVATIONS. THE CALCULATIONS MAKE NO PROVISIONS FOR STRIPPING, SHRINKAGE, BULKING OR ANY OTHER CONDITION NOT IMPLIED. FOR THIS REASON, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSULT THE PROJECT'S SOILS ENGINEER AND GEOLOGIC INVESTIGATIONS, AND TO DETERMINE FOR HIMSELF, THE QUANTITIES OF EARTH MOVING THAT WILL BE REQUIRED TO COMPLETE THIS PROJECT.
STARTING DATE 30 DAYS AFTER PERMIT ISSUANCE ,2009
COMPLETION DATE 90 DAYS AFTER PERMIT ISSUANCE ,2010

ATTACHMENT B NOTES

- THE FOLLOWING BMP'S AS OUTLINED IN, BUT NOT LIMITED TO, THE CALIFORNIA STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK, JANUARY 2003, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY PROJECT ENGINEER OR THE BUILDING OFFICIAL).
EROSION CONTROL
NON-STORMWATER MANAGEMENT
WATER MANAGEMENT & MATERIAL POLLUTION CONTROL
EQUIPMENT TRACKING CONTROL



PROJECT INFORMATION:
General Information:
Grading Plan Check No. GR
Grading Permit No. GR
Earthwork Volumes Cut 3926 (cy), Fill 203 (cy)
Export 3723 (cy), Import (cy)
Total Disturbed Area 0.10 (Acres)\*
Pre-Development Impervious area 0 (Acres)
Post-Development Impervious area 0.10 (Acres)
Waste Discharge I.D. Number (WIDD#)

ADDITIONAL NOTES:
A RECYCLING AND REUSE PLAN FROM ENVIRONMENTAL PROGRAMS DIVISION IS REQUIRED FOR ALL GRADING PERMITS IN THE UNINCORPORATED AREA OF THE COUNTY OF LOS ANGELES IN ACCORDANCE WITH THE CONSTRUCTION AND DEMOLITION (C&D) DEBRIS RECYCLING AND REUSE ORDINANCE (CH 20.87 OF THE LOS ANGELES COUNTY CODE). APPLICATIONS CAN BE OBTAINED ONLINE AT WWW.888CLEANLA.COM AND ARE AVAILABLE AT THE LOCAL BUILDING AND SAFETY OFFICE OR DIRECTLY FROM ENVIRONMENTAL PROGRAMS DIVISION.

AS CIVIL ENGINEER/LICENSED SURVEYOR OF THE PROJECT, I HAVE REVIEWED AND VERIFIED LOCATION AND PURPOSE OF EASEMENTS ARE ACCURATELY DEPICTED DOES NOT INTERFERE OR CONFORMS TO THE INTENDED USE OF THE EASEMENTS.

CIVIL ENGINEER OR LICENSED SURVEYOR DATE

PRE DEVELOPMENT
IMPERVIOUS AREA 0.10 ACRES, PERCENT IMPERVIOUS 3.33%
PERVIOUS AREA 0 ACRES, PERCENT PERVIOUS 96.67%
POST DEVELOPMENT
IMPERVIOUS AREA 0 ACRES, PERCENT IMPERVIOUS 0%
PERVIOUS AREA 3.02 ACRES, PERCENT PERVIOUS 100%

THE PROPOSED LANDSCAPE AREA IS 0 SQ. FT.

SHEET INDEX

SHT. 1 COVER SHEET
SHT. 2 OVERALL SITE PLAN
SHT. 3 CONCEPTUAL GRADING & DRAINAGE PLAN & CROSS SECTIONS
SHT. 4 DETAILS
SHT. 5 EROSION CONTROL PLAN COVER SHEET
SHT. 6 EROSION CONTROL PLAN
SHT. 7 EROSION CONTROL ATTACHMENTS

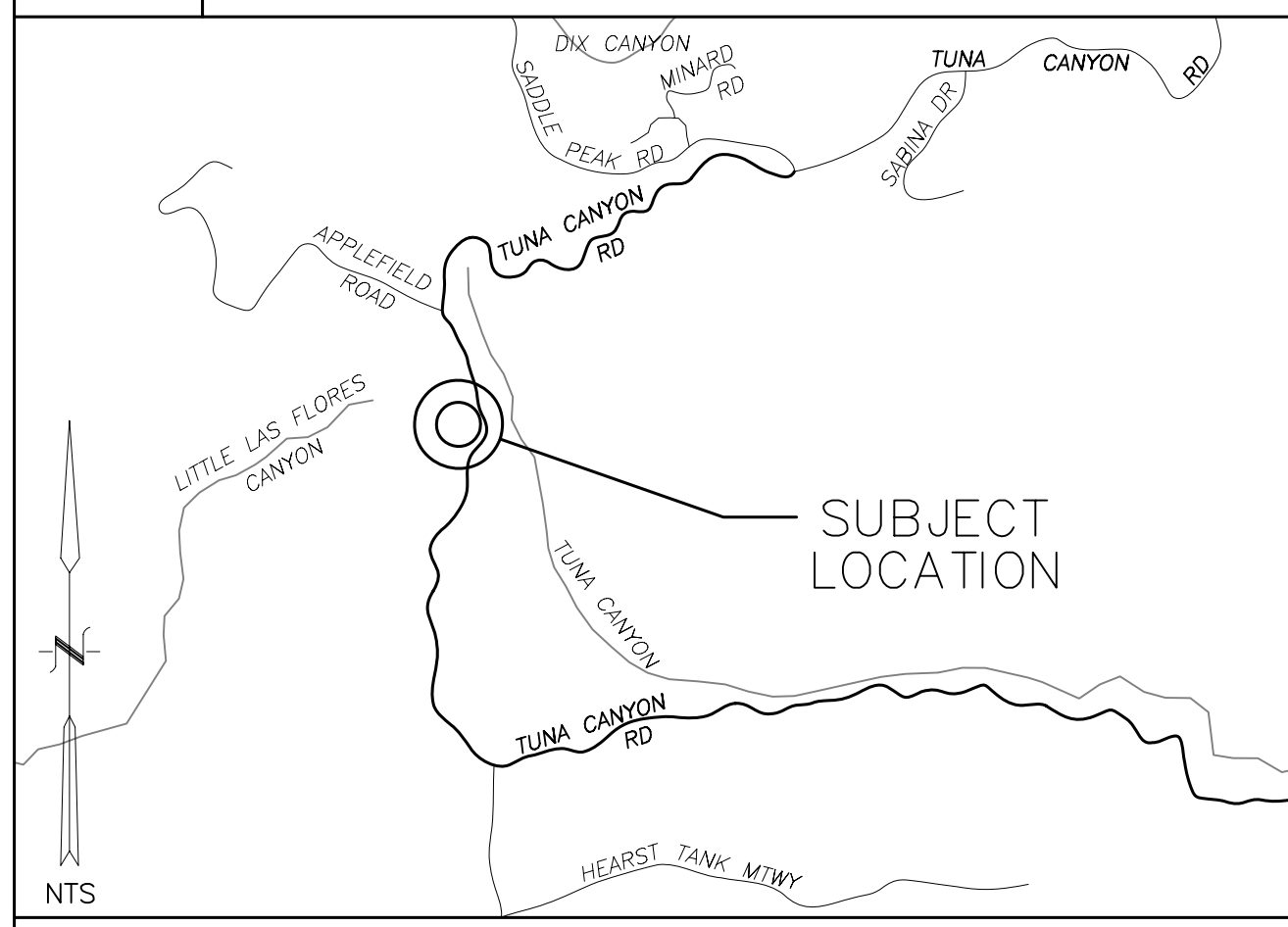


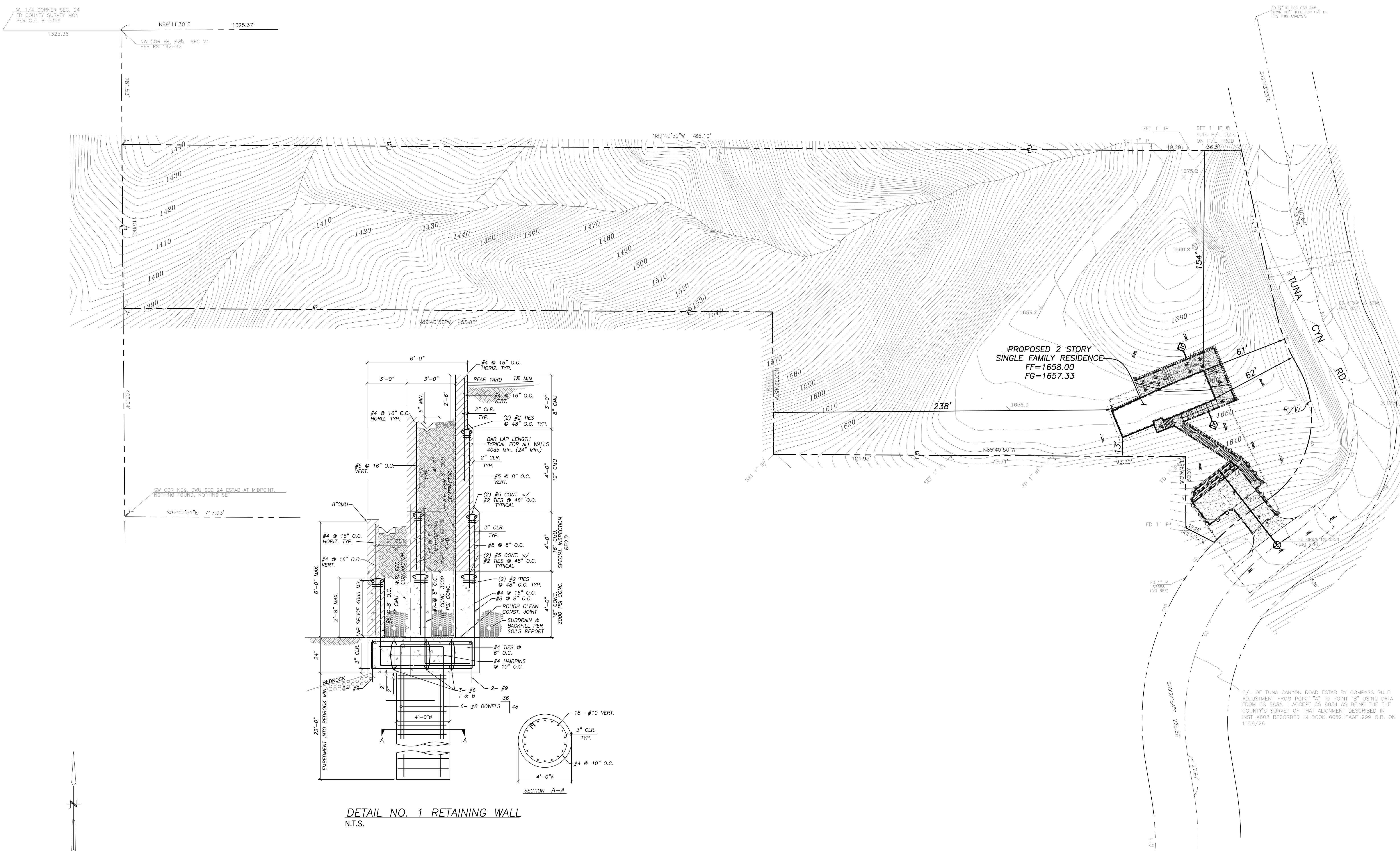
Table with columns: D, C, B, A, REVISION DESCRIPTION, APP, DATE, DESIGN ENGINEER (LEONARD LISTON), CIVIL ENGINEER (RCE), DATE.



GPC NO. CUP NO.
DESIGNED EM DRAWN HG CHECKED
PROJ. ENG. RECOMMENDED
REG. NO. DATE APPROVED

COUNTY OF LOS ANGELES

SPEC. NO. 6111
PROJ. NO.
COVER SHEET
APN 4448-007-062
ALEX SCHNITZLER
TUNA CANYON ROAD
TOPANGA, CA. 90290
SHEET 1 OF 4
DRAWING NO.



D				
C				
B				
A				
	REVISION DESCRIPTION	APP	DATE	

DESIGN ENGINEER  
**LC ENGINEERING GROUP, INC.**  
 8880 Florence Court, Suite 101, Thousand Oaks, California 91320  
 (805) 497-1244 (818) 991-7148 FAX (818) 991-5942 Email: workfiles@lcgroupinc.com  
 31902  
 LEONARD LISTON RCE DATE



DESIGNED	EM	DRAWN	HG	CHECKED	
PROJ. ENG.		RECOMMENDED			
REG. NO.		APPROVED			

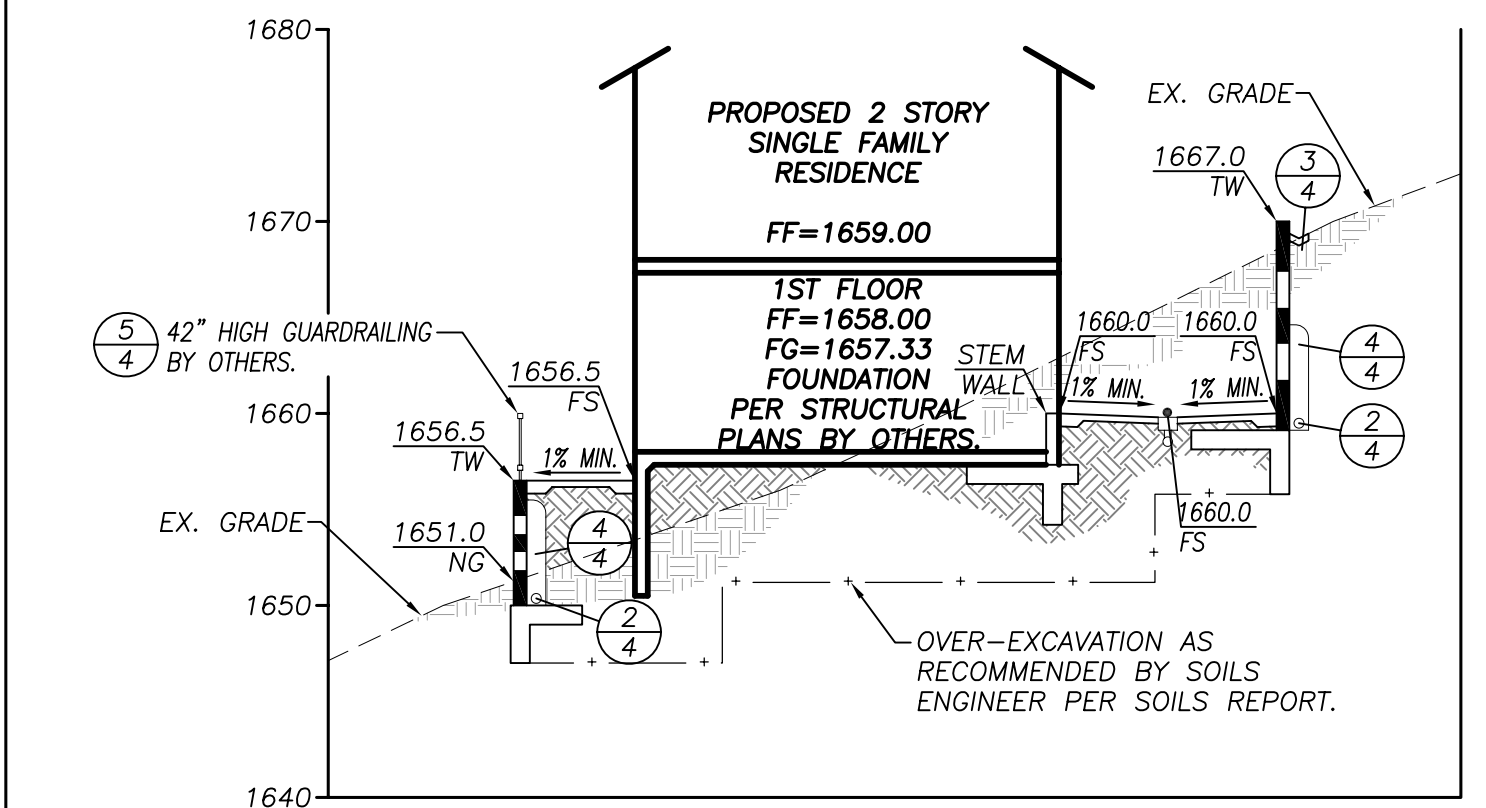
COUNTY OF LOS ANGELES

SPEC. NO.	
PROJ. NO.	6111

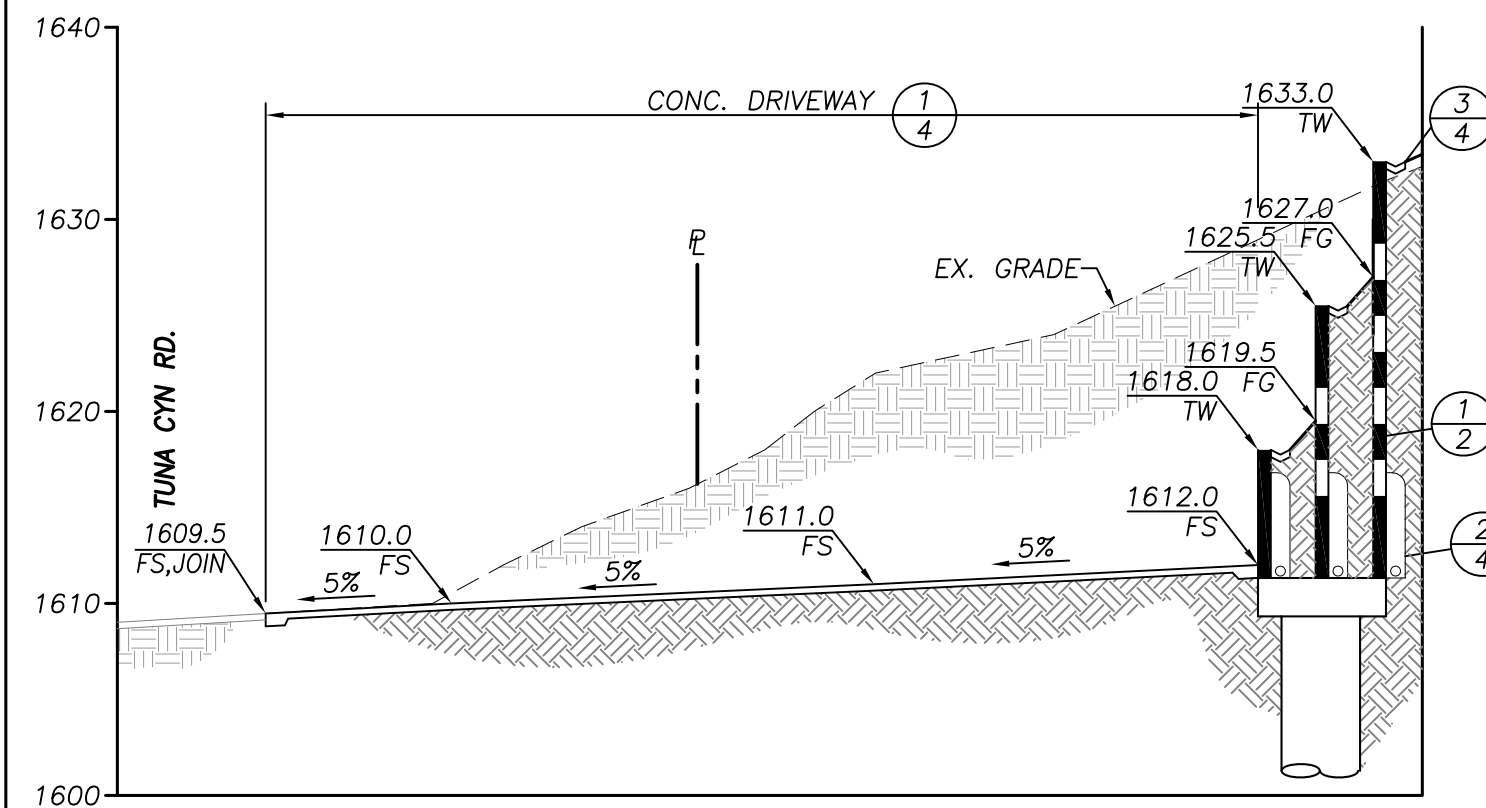
OVERALL SITE PLAN  
 APN 4448-007-062  
 ALEX SCHNITZLER  
 TUNA CANYON ROAD  
 TOPANGA, CA. 90290

SHEET	2
OF	4
DRAWING NO.	

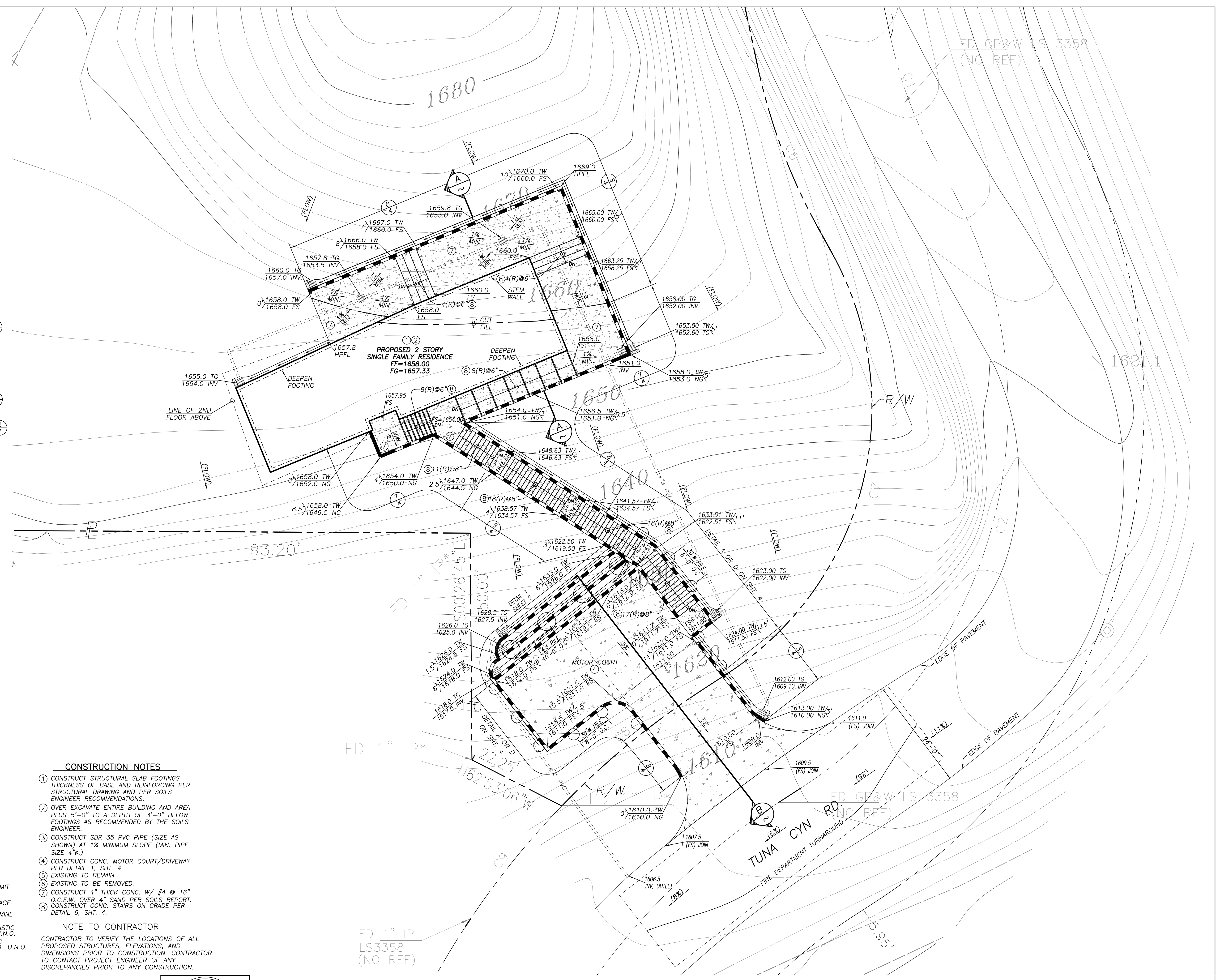
FD GP&W LS 3358  
(NO REF)



SECTION A  
1"=10'



SECTION B  
1"=10'



- LEGEND**
- C CENTER LINE
  - CO CLEANOUT
  - DG DECOMPOSED GRANITE
  - D DAYLIGHT LINE
  - DN DOWN
  - DS DOWNSPOUT
  - FF FINISH FLOOR
  - FG FINISH GRADE
  - FL FLOW LINE
  - FS FINISH SURFACE
  - HP HIGH POINT
  - INV INVERT
  - PA PLANTER AREA
  - P PROPERTY LINE
  - NG NATURAL GRADE
  - TC TOP OF CURB
  - TD TOP OF DECK
  - TG TOP OF GRATE
  - TW TOP OF WALL
  - RETAINING WALL PER SEPARATE PERMIT
  - BLOCK WALL PER SEPARATE PERMIT
  - CONTRACTOR TO VERIFY HARD SURFACE THICKNESS PER ARCHITECTURAL SPECIFICATIONS AND DETAILS TO DETERMINE ROUGH GRADE ELEVATIONS.
  - 12" SQ. CATCH BASIN PER NDS PLASTIC PRODUCTS PART NO. 1200-1204. U.N.O.
  - 6" SPEED BASIN PER NDS PLASTIC PRODUCTS PART NO. 101, 102, 300. U.N.O.
  - INDICATES 4% PERF. SUBDRAIN
  - X185.5 EXISTING SPOT ELEVATIONS

**CONSTRUCTION NOTES**

1. CONSTRUCT STRUCTURAL SLAB FOOTINGS THICKNESS OF BASE AND REINFORCING PER STRUCTURAL DRAWING AND PER SOILS ENGINEER RECOMMENDATIONS.
2. OVER EXCAVATE ENTIRE BUILDING AND AREA PLUS 5'-0" TO A DEPTH OF 3'-0" BELOW FOOTINGS AS RECOMMENDED BY THE SOILS ENGINEER.
3. CONSTRUCT SDR 35 PVC PIPE (SIZE AS SHOWN) AT 1% MINIMUM SLOPE (MIN. PIPE SIZE 4").
4. CONSTRUCT CONC. MOTOR COURT/DRIVEWAY PER DETAIL 1, SHT. 4.
5. EXISTING TO REMAIN.
6. EXISTING TO BE REMOVED.
7. CONSTRUCT 4" THICK CONC. W/ #4 @ 16" O.C.E.W. OVER 4" SAND PER SOILS REPORT.
8. CONSTRUCT CONC. STAIRS ON GRADE PER DETAIL 6, SHT. 4.

**NOTE TO CONTRACTOR**

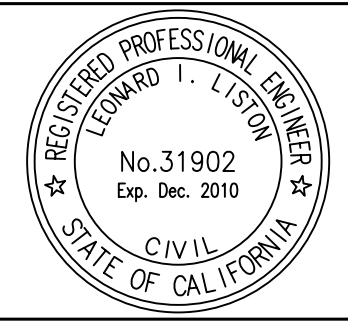
CONTRACTOR TO VERIFY THE LOCATIONS OF ALL PROPOSED STRUCTURES, ELEVATIONS, AND DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT PROJECT ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

D	DESIGNED	EM	DRAWN	HG	CHECKED	
C	PROJ. ENG.		RECOMMENDED			
B	REG. NO.		APPROVED			
A	REVISION DESCRIPTION	APP	DATE	LEONARD LISTON	RCE	DATE

DESIGN ENGINEER  
**LC ENGINEERING GROUP, INC.**  
8800 Wilshire Blvd., Suite 101, Thousand Oaks, California 91320  
(805) 497-1244 (818) 991-7148 FAX (818) 991-5942 Email: workfiles@lcegroup.com

No. 31902  
Exp. Dec. 2010

31902  
RCE



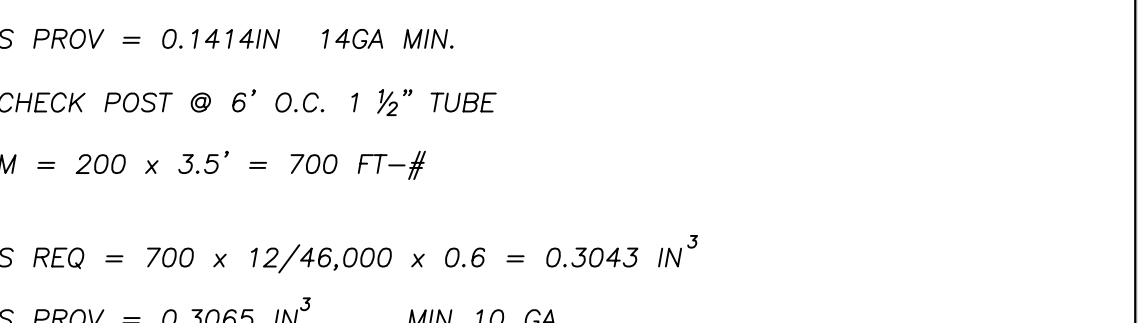
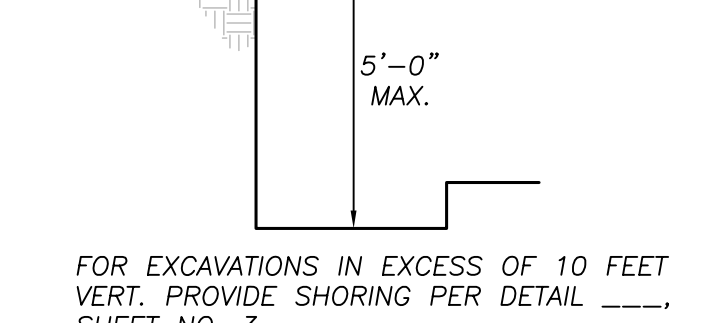
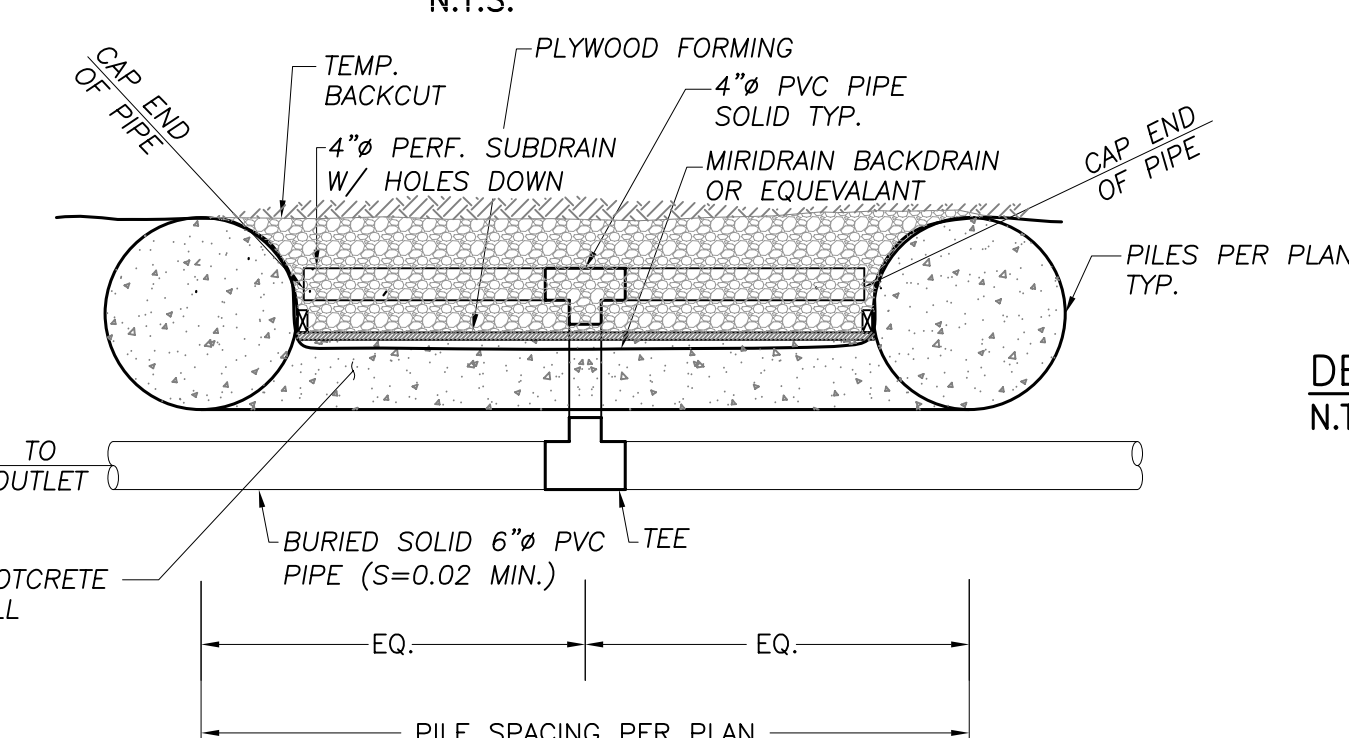
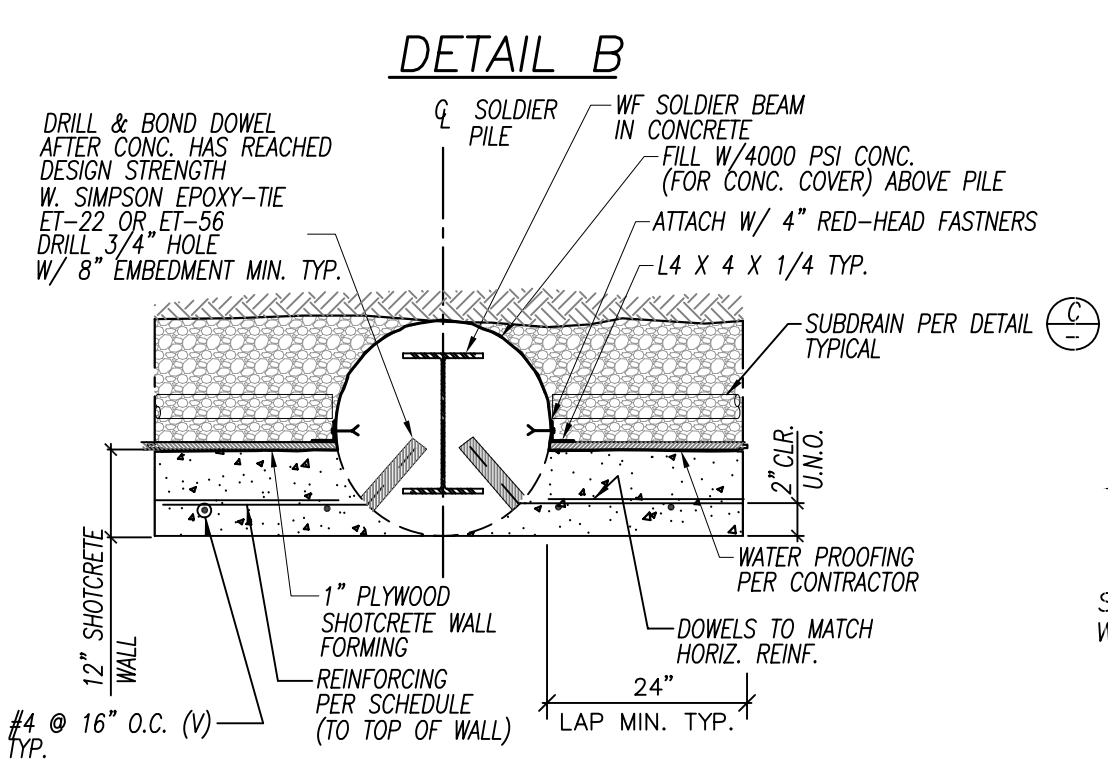
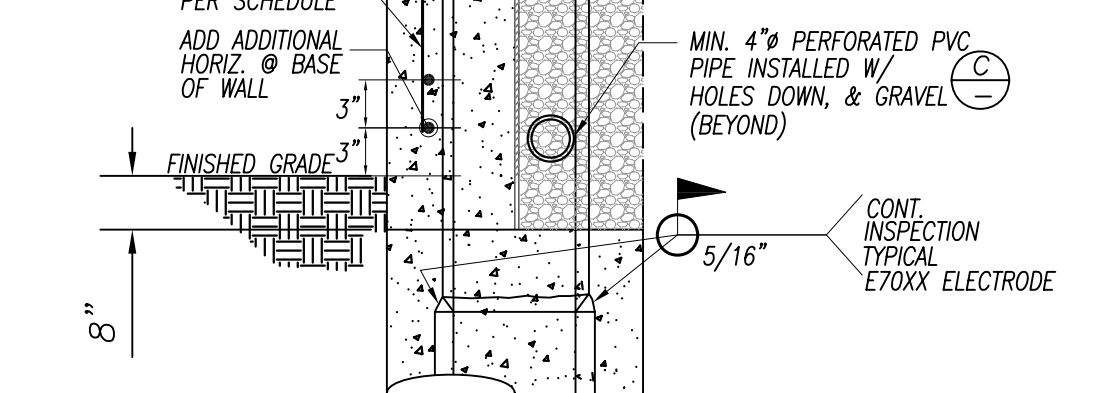
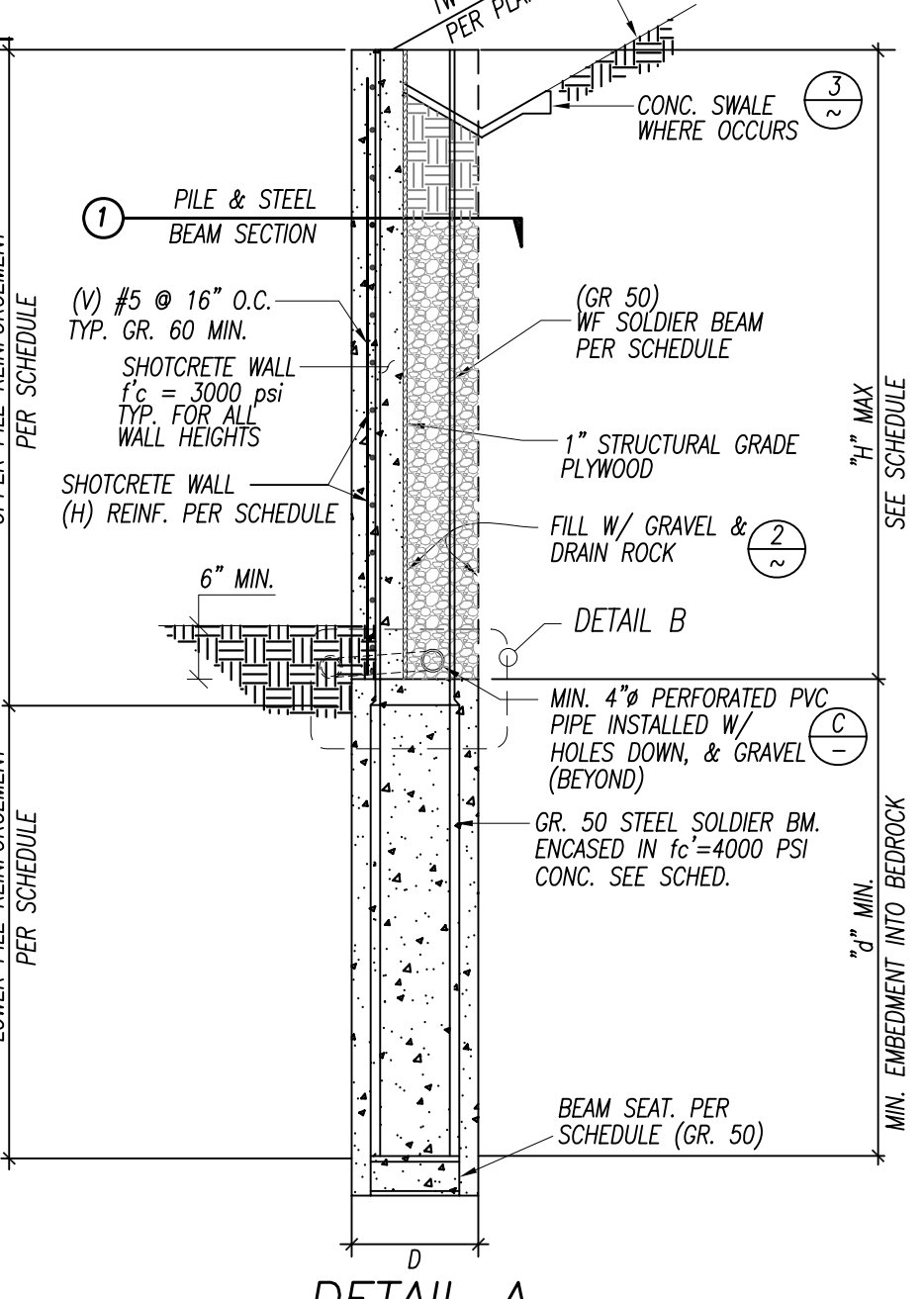
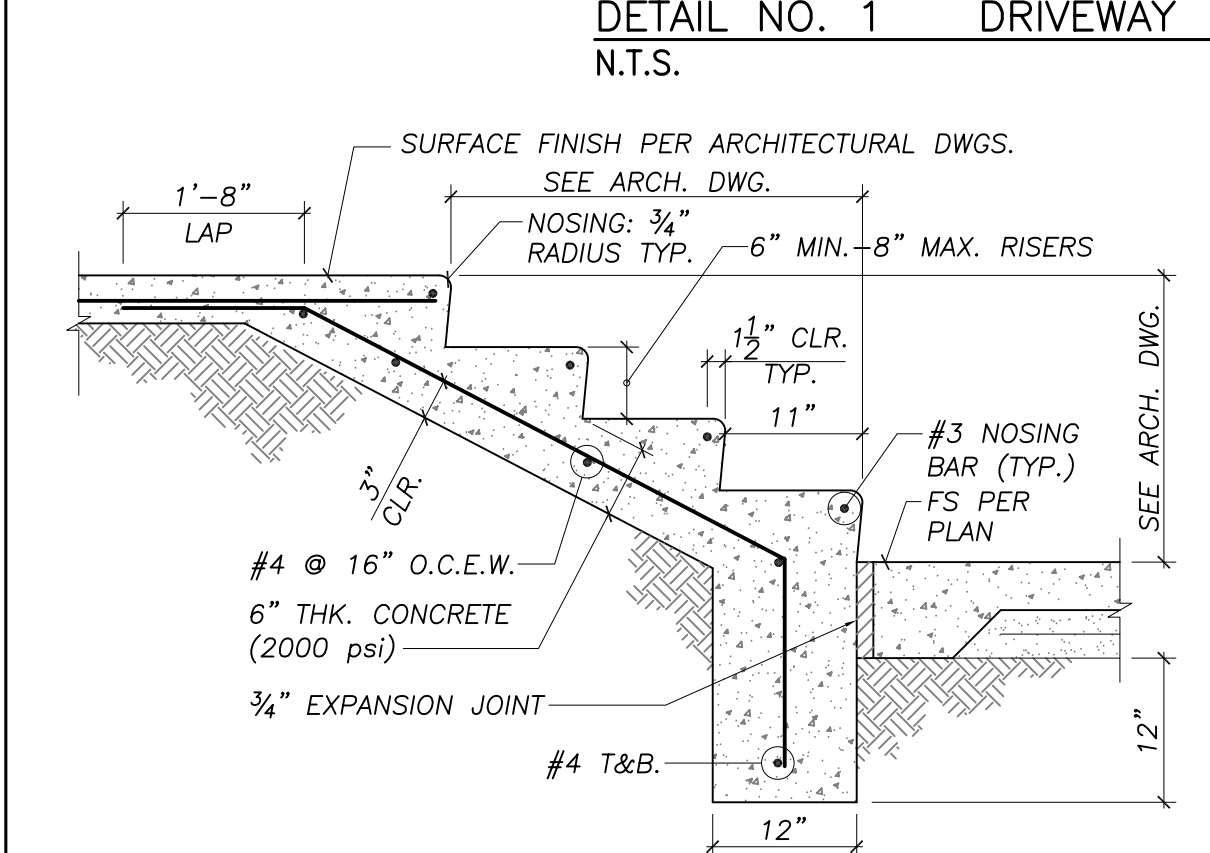
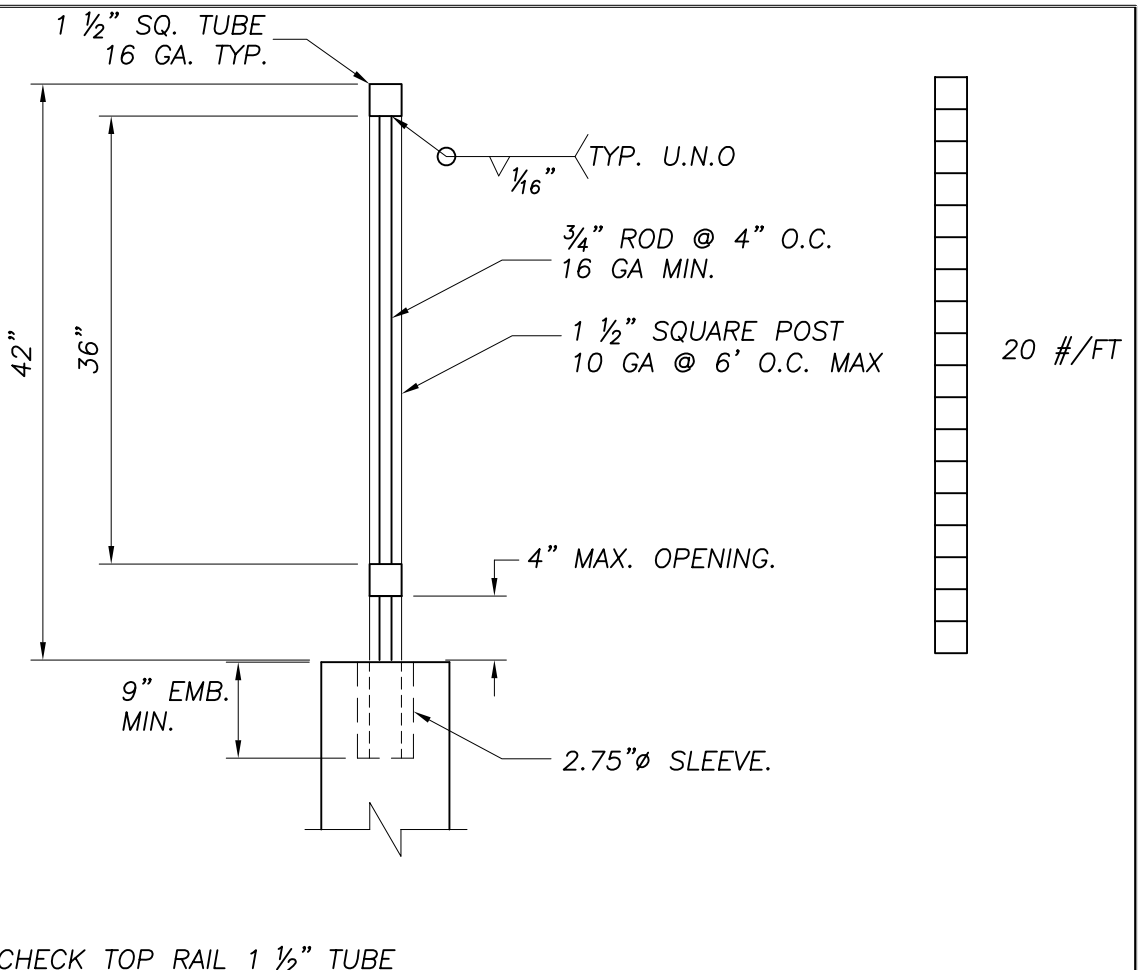
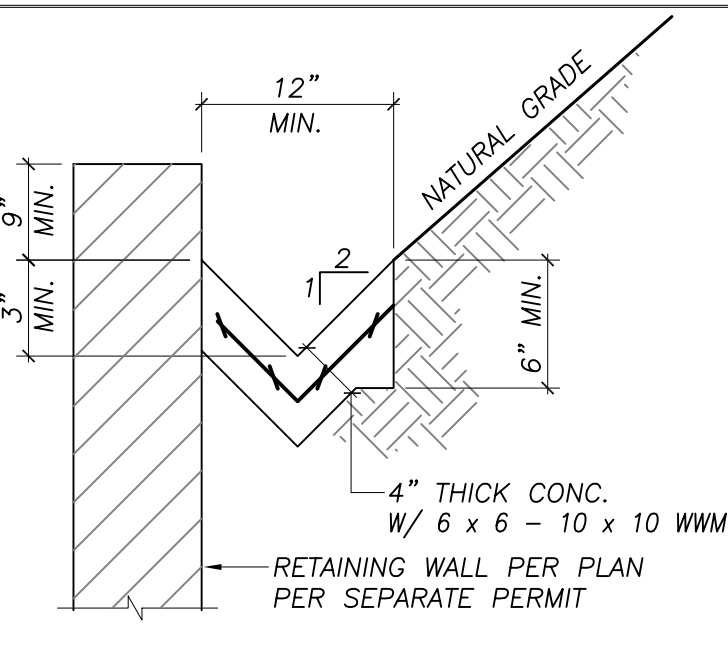
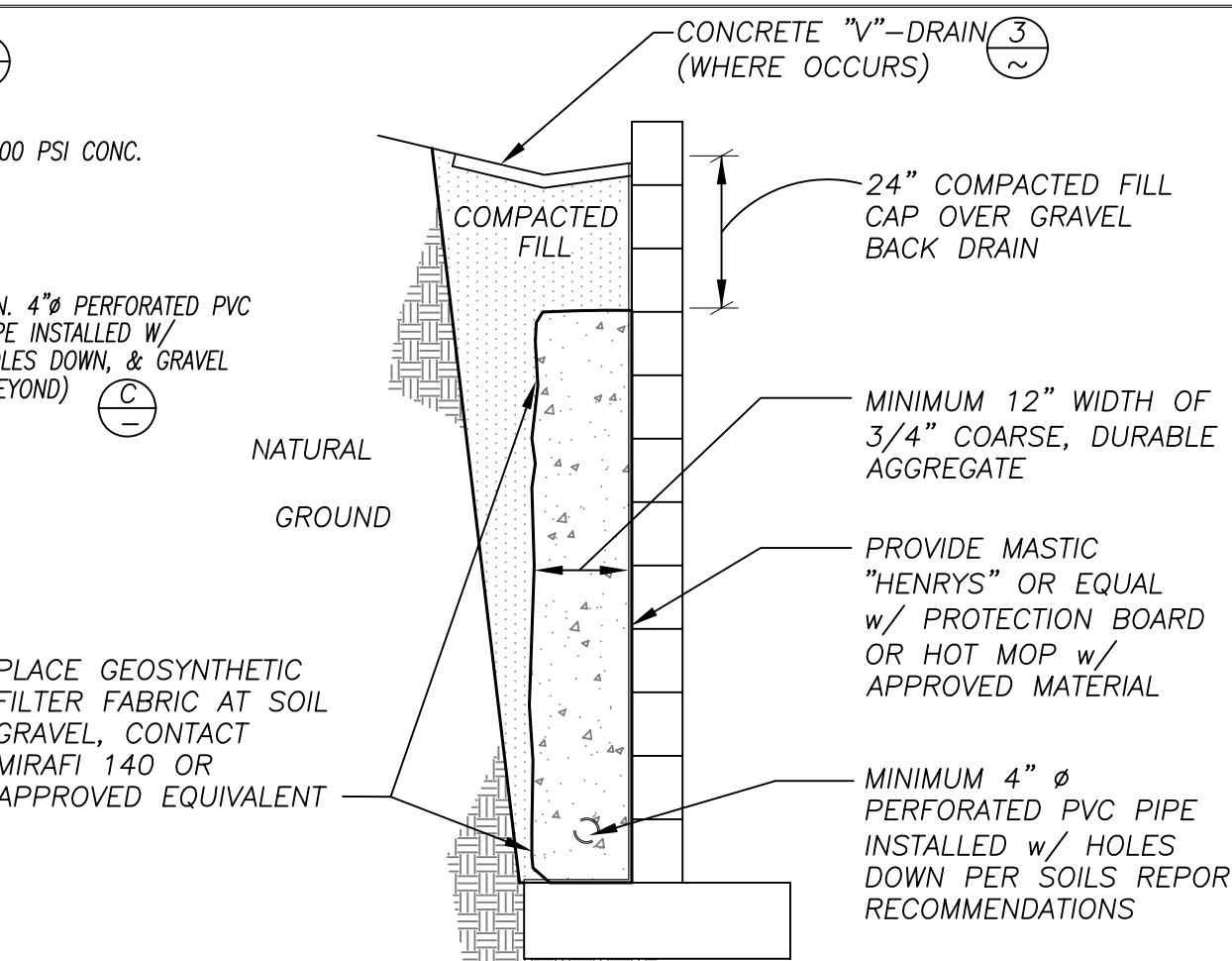
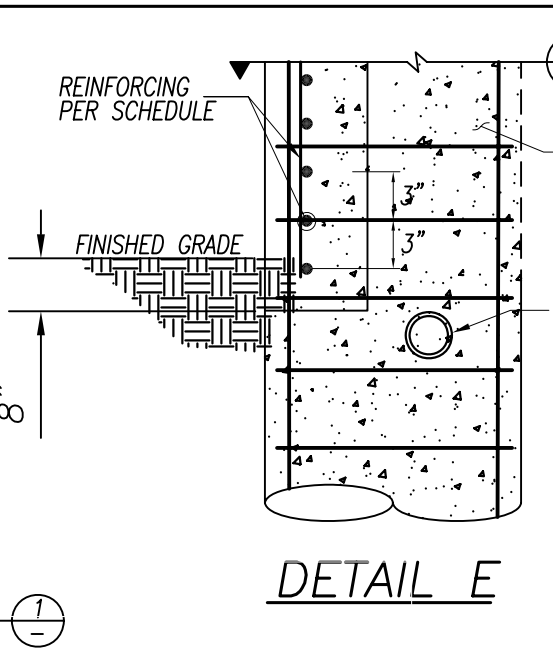
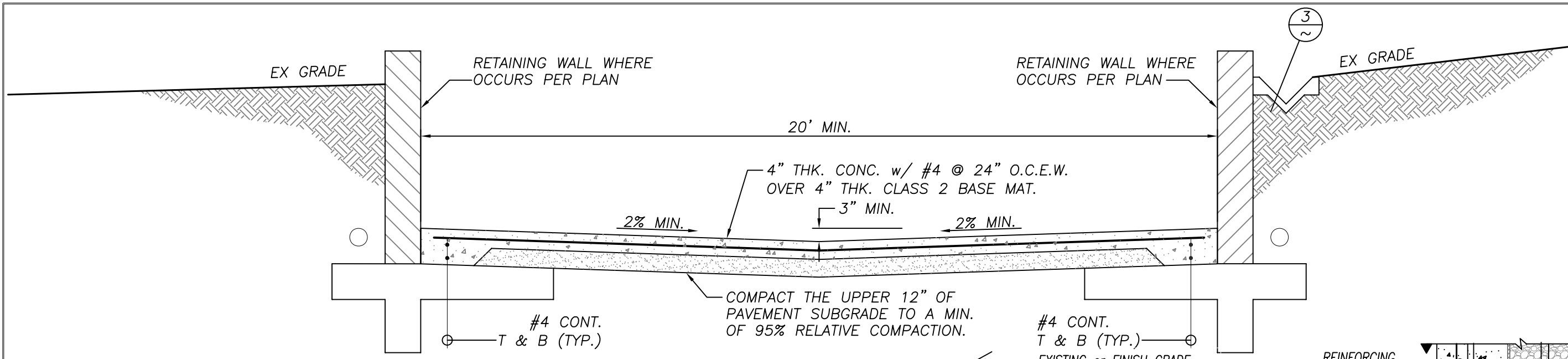
DESIGNED	EM	DRAWN	HG	CHECKED	
PROJ. ENG.		RECOMMENDED			
REG. NO.		APPROVED			

COUNTY OF LOS ANGELES

SPEC. NO.	
PROJ. NO.	6111

CONCEPTUAL GRADING & DRAINAGE PLAN & CROSS SECTIONS  
APN 4448-007-062  
ALEX SCHNITZLER  
TUNA CANYON ROAD  
TOPANGA, CA. 90290

SHEET	3
OF	4
DRAWING NO.	



**GENERAL NOTES**  
MASONRY RETAINING WALL

**MAXIMUM WORKING STRESSES**

FULLY GROUTED CELLS f'm	1500 PSI	1500 PSI
ALLOWABLE BENDING COMPRESSION	500 PSI	250 PSI
BOND STRENGTH "u"	200 PSI	100 PSI
SHEAR STRENGTH "v"	38 PSI	19 PSI

**WEIGHTS (MEDIUM)**

NORMAL WT. CONCRETE	150 p.c.f.
8" MASONRY BLOCK	78 p.s.f.
12" MASONRY BLOCK	124 p.s.f.
16" MASONRY BLOCK	164 p.s.f.

**MATERIAL STANDARDS**

MORTAR: C.B.C. STD. 21-15, PORTLAND CEMENT-LIME TYPE M OR S, f'c=1800 PSI MIN.

GROUT: C.B.C. STD. 21-19 f'c=2000 PSI MIN.

CONCRETE BLOCKS: C.B.C. STD. 21-4 GRADE N-1, f'c=1900 PSI

REINFORCEMENT: ASTM 615, GRADE 60 BAR MIN.

CONCRETE: C.B.C. STD. 19-1 PORTLAND CEMENT

**MINIMUM CONCRETE STRENGTH AT 28 DAYS (UNLESS NOTED OTHERWISE)**

SHOTCRETE WALL f'c = 3000 PSI W/ CONTINUOUS INSPECTION

CONC. WALL CONV. FOOTINGS: f'c = 2500 PSI W/ CONTINUOUS INSPECTION

GRADE BEAMS: f'c = 3000 PSI W/ CONTINUOUS INSPECTION

PILES: f'c = 4000 PSI W/ CONTINUOUS INSPECTION

- GENERAL SPECIFICATIONS**
- PLASTIC CEMENT SHALL NOT BE USED.
  - ALL CELLS BELOW BACKFILL AND ALL OTHER CELLS WHICH CONTAIN REINFORCEMENT TO BE FILLED WITH GROUT AND RODDED.
  - SPLICES IN CONCRETE SHALL BE 48 BAR DIAMETERS - MINIMUM U.N.O. SPLICES IN MASONRY WALL SHALL BE 48 BAR DIAMETERS - MINIMUM U.N.O. REINFORCEMENT SHALL BE ACCURATELY PLACED AND SECURED SO THAT IT WILL NOT BE DISPLACED.
  - CONCRETE SHALL BE RODDED TO INSURE A GOOD CONTACT WITH REINFORCEMENT AND TO ELIMINATE ROCK POCKETS AND VOIDS.
  - POURING LIFTS SHALL BE 4'-0" - MAXIMUM
  - FOOTINGS SHALL BE POURED AGAINST SOLID NATURAL UNDISTURBED EARTH OR COMPACTED FILL (90% RELATIVE DENSITY). CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB.
  - ALL BACKFILL TO BE THOROUGHLY COMPACTED.
  - USE 4" DIAMETER PERFORATED P.V.C. DRAIN OR OMIT HEAD JOINTS AT 32" O.C. FOR DRAINAGE.
  - BACKFILL WITH SAND OR CLEAN COARSE GRAVEL AND PROVIDE A COMPACTED FILL BLANKET AT THE SURFACE.
  - CELLS TO BE DRY BEFORE THE PLACEMENT OF GROUT.
  - REINFORCEMENT GRADE 40 - #3 & SMALLER REINFORCEMENT GRADE 60 - #4 & LARGER

**SHOTCRETE WALL SCHEDULE**

"H" MAX.	SHOTCRETE WALL REINF. SCHEDULE (HORIZ.) BTM. HALF	SHOTCRETE WALL REINF. SCHEDULE (HORIZ.) TOP HALF
10'-0"	#5 @ 6" O.C.	#5 @ 12" O.C.
14'-0"	#5 @ 6" O.C.	#5 @ 12" O.C.
16'-0"	#5 @ 6" O.C.	#5 @ 12" O.C.
18'-0"	#5 @ 6" O.C.	#5 @ 12" O.C.
20'-0"	#5 @ 4" O.C.	#5 @ 6" O.C.

NOTE: SHOTCRETE WALL MIN. f'c = 3000 psi

D	REVISION DESCRIPTION	APP	DATE

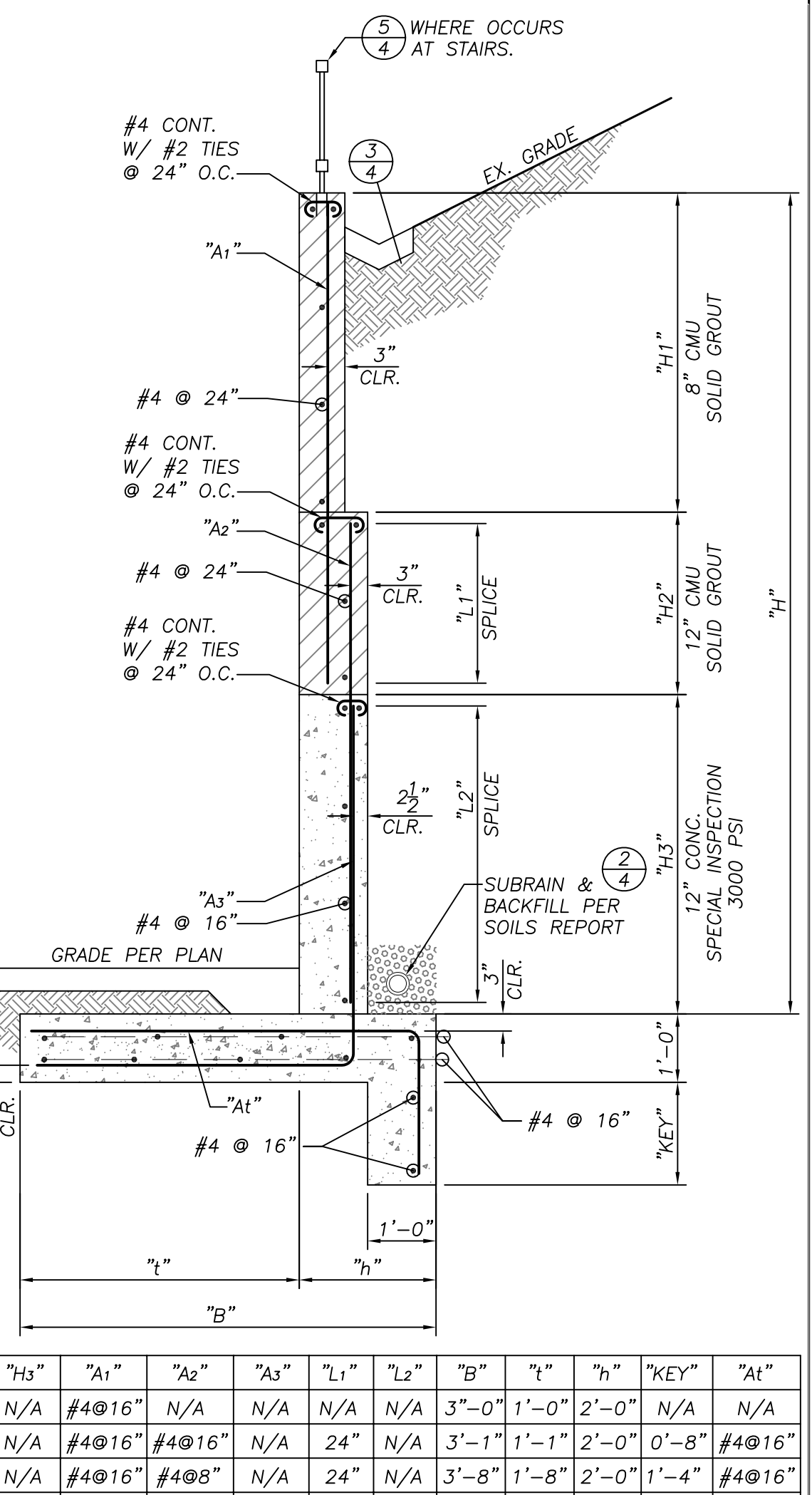
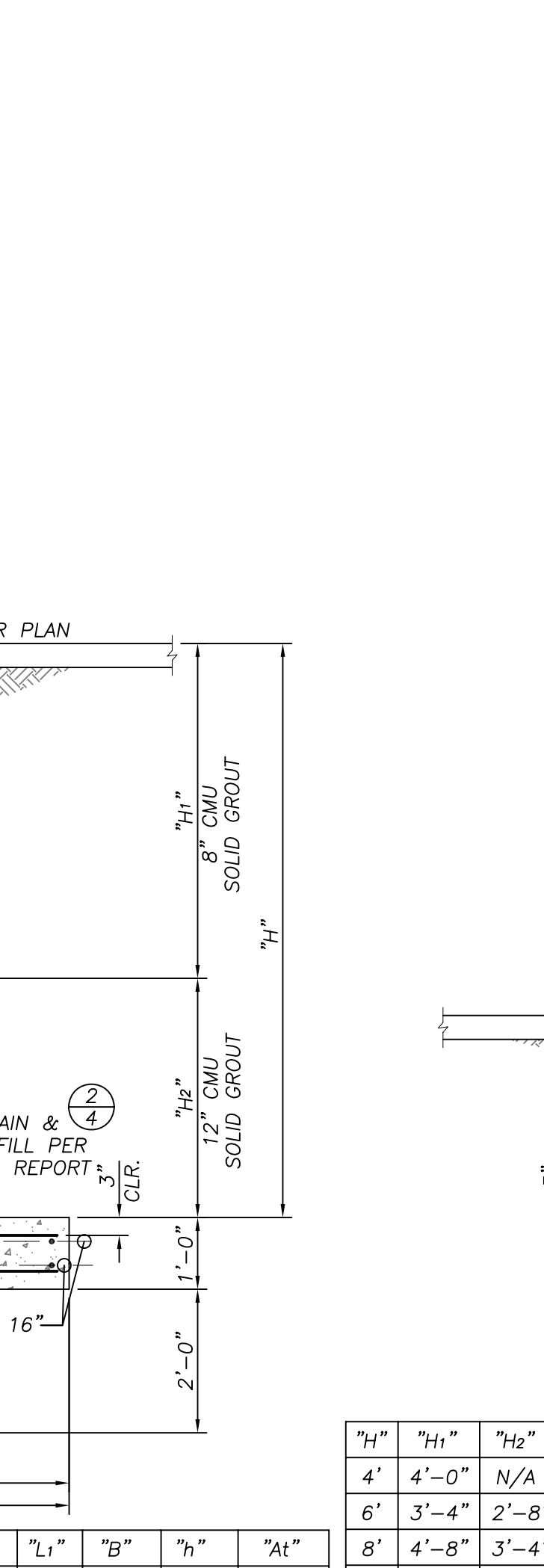
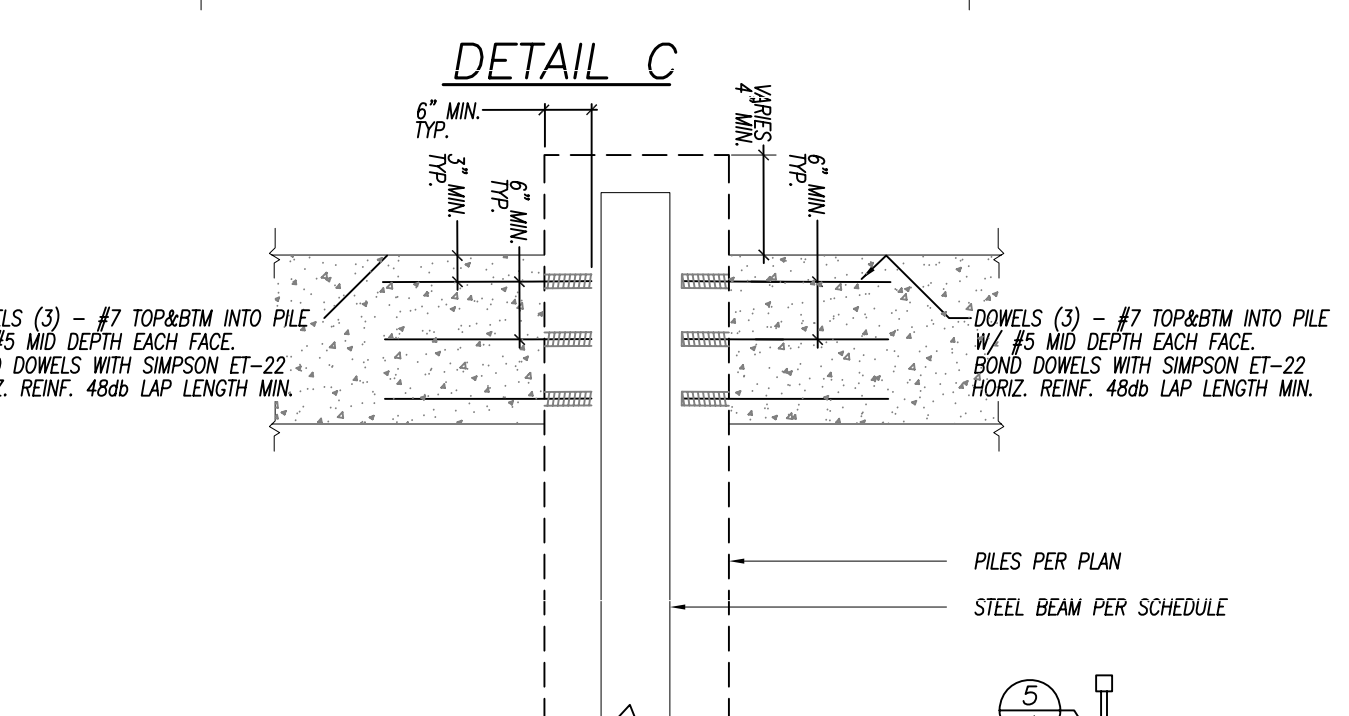
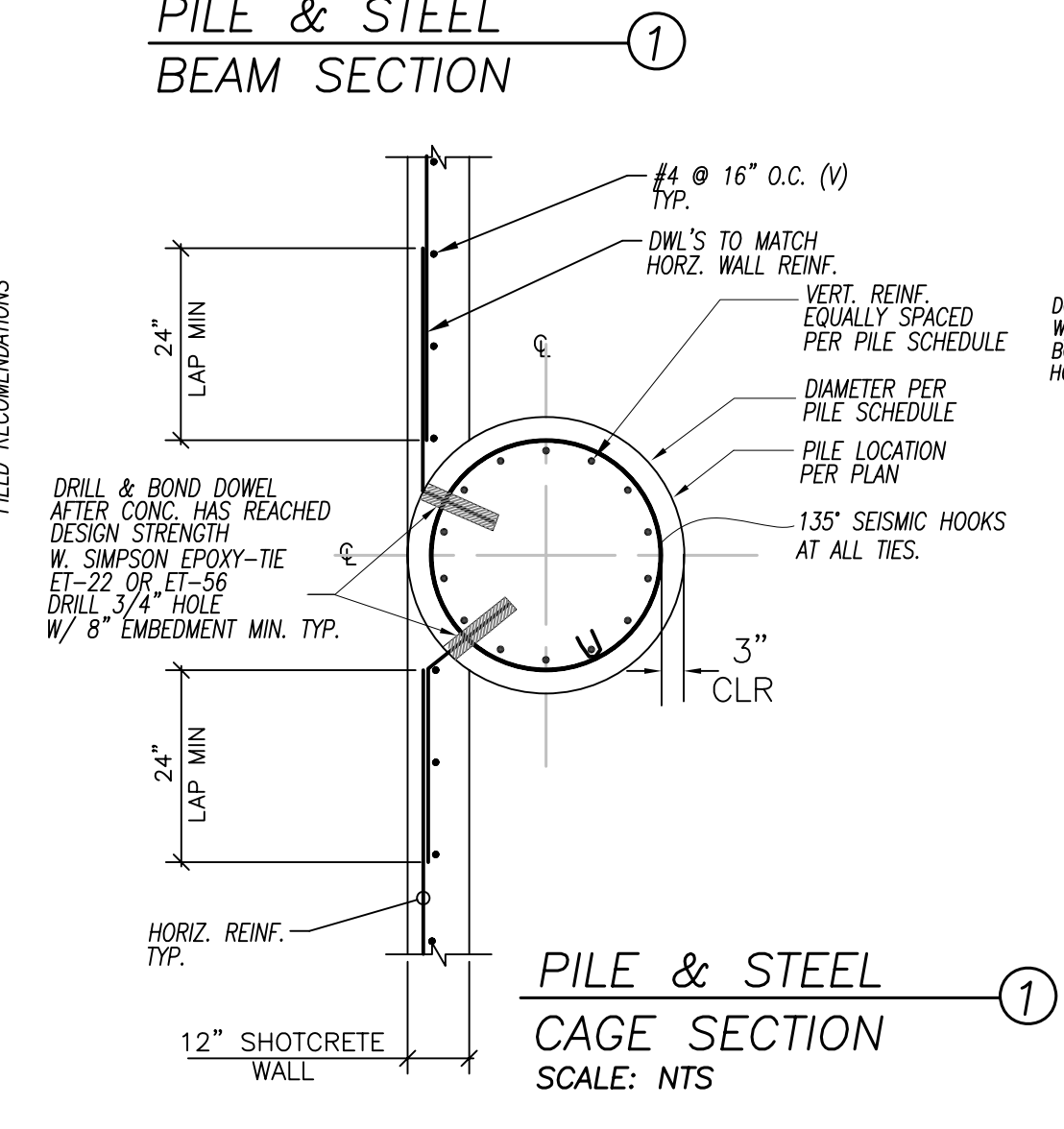
**CONCRETE PILE SCHEDULE**

"H" MAX.	"D" PILE SIZE & SPACING	STEEL BEAM REINF. LOWER PORTION	STEEL BEAM REINF. UPPER PORTION	"d"-MIN PILE EMBED. INTO BEDROCK	BEAM SEAT (OPTIONAL) (GR 50)	CONVENTIONAL ** CAGE REINF. (V) (GR 60 BAR)
10'-0"	30"Ø @ 8' O.C.	W 21 X 44	W 21 X 44	13'-0"	W 21 X 44	4 - #14 BARS
14'-0"	30"Ø @ 8' O.C.	W 21 X 83	W 21 X 83	18'-0"	W 21 X 83	8 - #14 BARS
16'-0"	30"Ø @ 8' O.C.	W 18X130 OR W 21X122 OR W 24X104	W 18X130 OR W 21X122 OR W 24X104	20'-0"	W 18X130 OR W 21X122 OR W 24X104	N/A
18'-0"	30"Ø @ 8' O.C.	W 21 X 166	W 21 X 166	25'-0"	W 21 X 166	8 BUNDLES OF 2 - #14 BARS
20'-0"	36"Ø @ 8' O.C.	W 24 X 176	W 24 X 176	26'-0"	W 24 X 176	8 BUNDLES OF 3 - #14 BARS

NOTE: CONCRETE PILE MIN. f'c = 4000 psi

\* CONVENTIONAL CAGE REINFORCEMENTS MAY BE USED IN PLACE OF STEEL BEAM REINF. SEE DETAIL "D" FOR CONV. PILE DETAIL

\*\* STEEL BEAM REINFORCEMENTS MAY BE USED IN PLACE OF PILE CAGES. SEE DETAIL "A" FOR PILES W/ STEEL BEAM REINF.



**DESIGN ENGINEER**  
**LC ENGINEERING GROUP, INC.**  
13102  
31902  
LEONARD LISTON  
RCE

DESIGNED EM DRAWN HG CHECKED  
PROJ. ENG. RECOMMENDED  
REG. NO. DATE APPROVED

SPEC. NO. 6111  
PROJ. NO. 6111

DETAILS  
APN 4448-007-062  
ALEX SCHNITZLER  
TUNA CANYON ROAD  
TOPANGA, CA. 90290

SHEET 4 OF 7  
DRAWING NO.

COUNTY OF LOS ANGELES

**WET WEATHER EROSION CONTROL PLAN (WWERP)  
GENERAL NOTES:**

- IN CASE OF EMERGENCY, CALL AT ALEX SCHNITZLER (310) 738-9144
- A STAND-BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS EMINENT.
- EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE BUILDING OFFICIAL IF THE GRADING OPERATION HAS PROGRESSED TO THE POINT WHERE THERE ARE NO LONGER REQUIRED.
- GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. ALL LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL HAZARD TO OFF-SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY BASIS.
- ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
- A GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET. THE DEVICE SHALL BE DRAINED OR PUMPED DRY WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP FOR DEWATERING OPERATIONS.
- THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTAIN POLLUTANTS WITHIN THE SITE IS LEFT TO THE DISCRETION OF THE FIELD ENGINEER. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
- DESILTING BASINS MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN OCTOBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
- STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES. THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE FIELD ENGINEER. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE BUILDING OFFICIAL.
- EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NONSTORM WATER FROM THE PROJECT SITES AT ALL TIMES.
- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSE, OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY FORCES OF WIND OR WATER.
- FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOILS 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.
- EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTE ON-SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- DEVELOPERS/CONTRACTORS ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES AND BMPs ARE INSTALLED AND FUNCTIONING PROPERLY IF THERE IS A 40% CHANCE OF 0.25 INCHES OR GREATER OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECK LIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL (COPIES OF THE SELF-INSPECTION CHECK LIST AND INSPECTION LOGS ARE AVAILABLE UPON REQUEST).
- TRASH AND CONSTRUCTION-RELATED SOILED WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITION MUST BE SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- ANY SLOPES WITH DISTURBED SOILS OR DENuded OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- AS THE PROJECT ARCHITECT/ENGINEER OF RECORD, I HAVE SELECTED APPROPRIATE BMPs TO EFFECTIVELY MINIMIZE THE NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE PROJECT OWNER AND CONTRACTOR ARE AWARE THAT THE SELECTED BMPs MUST BE INSTALLED, MONITORED, AND MAINTAINED TO ENSURE THEIR EFFECTIVENESS. THE BMPs NOT SELECTED FOR IMPLEMENTATION ARE REDUNDANT OR DEEMED NOT APPLICABLE TO THE PROPOSED CONSTRUCTION ACTIVITY.

CIVIL ENGINEERS/ARCHITECTS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

20. AS THE PROJECT OWNER OR AUTHORIZED AGENT OF THE OWNER, I HAVE READ AND UNDERSTOOD THE REQUIREMENTS TO CONTROL STORM WATER POLLUTION FROM SEDIMENTS, EROSION, AND CONSTRUCTION MATERIALS, AND I CERTIFY THAT I WILL COMPLY WITH THESE REQUIREMENTS. I, OR MY REPRESENTATIVE, CONTRACTOR, DEVELOPER, OR ENGINEER WILL MAKE CERTAIN THAT ALL BMP SHOWN ON THIS PLAN WILL BE FULLY IMPLEMENTED, AND ALL EROSION DEVICES WILL BE KEPT CLEAN AND FUNCTIONING. PERIODIC INSPECTIONS OF THE BMPs WILL BE CONDUCTED AND A CURRENT LOG, SPECIFYING THE EXACT NATURE OF THE INSPECTION AND ANY REMEDIAL MEASURES, WILL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES AND WILL BE AVAILABLE FOR THE REVIEW OF THE BUILDING OFFICIAL.

AS THE PROJECT OWNER OR AUTHORIZED AGENT OF THE OWNER, I CERTIFY THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION SUBMITTED IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT SUBMITTING FALSE AND/OR INACCURATE INFORMATION, FAILING TO UPDATE THE LOCAL SWPPP TO REFLECT CURRENT CONDITIONS, OR FAILING TO PROPERLY AND/OR ADEQUATELY IMPLEMENT THE LOCAL SWPPP MAY RESULT IN REVOCATION OF GRADING AND/OR OTHER PERMITS OR OTHER SANCTIONS PROVIDED BY LAW.

- OWNER OR AUTHORIZED AGENT OF THE OWNER \_\_\_\_\_ DATE \_\_\_\_\_
21. THE FOLLOWING BMP FROM THE "CALIFORNIA STORM WATER BMP CONSTRUCTION HANDBOOK" - JANUARY 2003, MUST BE IMPLEMENTED FOR ALL CONSTRUCTION ACTIVITIES AS APPLICABLE. BMPs FROM THE "CALIFORNIA STORM WATER BMP HANDBOOK" - MARCH 1993 MAY BE USED IF DETAIL IS INDICATED.
- | EROSION CONTROL                           | NON-STORMWATER MANAGEMENT                     |
|---|---|
| EC1-SCHEDULING                            | NS1-WATER CONSERVATION PRACTICES              |
| EC2-PRESERVATION OF EXISTING VEGETATION   | NS2-DEWATERING OPERATIONS                     |
| EC3-HYDRAULIC MULCH                       | NS3-PAVING AND GRINDING OPERATIONS            |
| EC4-HYDROSEEDING                          | NS4-TEMPORARY STRIP CROSSING                  |
| EC5-SOIL BINDER                           | NS5-CLAR WATER DEVIATION                      |
| EC6-STRAW MULCH                           | NS6-ILLICIT CONNECTION/DISCHARGE              |
| EC7-GEOTEXTILES & MATS                    | NS7-POTABLE WATER/IRRIGATION                  |
| EC8-WOOD MULCHING                         | NS8-VEHICLE AND EQUIPMENT CLEANING            |
| EC9-EARTH DIKES AND DRAINAGE SWALES       | NS9-VEHICLE AND EQUIPMENT FUELING             |
| EC10-VELOCITY DISSIPATION DEVICES         | NS10-VEHICLE AND EQUIPMENT MAINTENANCE        |
| EC11-SLOPE DRAINS                         | NS11-PILE DRIVING OPERATIONS                  |
| EC12-STREAMBANK STABILIZATION             | NS12-CONCRETE CURING                          |
| EC13-POLYACRYLAMIDE                       | NS13-CONCRETE FINISHING                       |
|   | NS14-MATERIAL AND EQUIPMENT USE               |
|   | NS15-DEMOLITION ADJACENT TO WATER             |
|   | NS16-TEMPORARY BATCH PLANTS                   |
| TEMPORARY SEDIMENT CONTROL                | WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL |
| SE1-SILT FENCE                            | WM1-MATERIAL DELIVERY AND STORAGE             |
| SE2-SEDIMENT BASIN                        | WM2-MATERIAL USE                              |
| SE3-SEDIMENT TRAP                         | WM3-STOCKPILE MANAGEMENT                      |
| SE4-CHECK DAM                             | WM4-SPILL PREVENTION AND CONTROL              |
| SE5-FIBER ROLLS                           | WM5-SOLID WASTE MANAGEMENT                    |
| SE6-GRAVEL BAG BERM                       | WM6-HAZARDOUS WASTE MANAGEMENT                |
| SE7-STREET SWEEPING AND VACUUMING         | WM7-CONTAMINATION SOIL MANAGEMENT             |
| SE8-SANDBAG BARRIER                       | WM8-CONCRETE WASTE MANAGEMENT                 |
| SE9-STORM DRAIN INLET PROTECTION          | WM9-SANITARY/SEPTIC WASTE MANAGEMENT          |
|   | WM10-LIQUID WASTE MANAGEMENT                  |
| WIND EROSION CONTROL                      |   |
| WE1-WIND EROSION CONTROL                  |   |
| EQUIPMENT TRACKING CONTROL                |   |
| TC1-STABILIZED CONSTRUCTION ENTRANCE EXIT |   |
| TC2-STABILIZED CONSTRUCTION ROADWAY       |   |
| TC3-ENTRANCE/OUTLET TIRE WASH             |   |

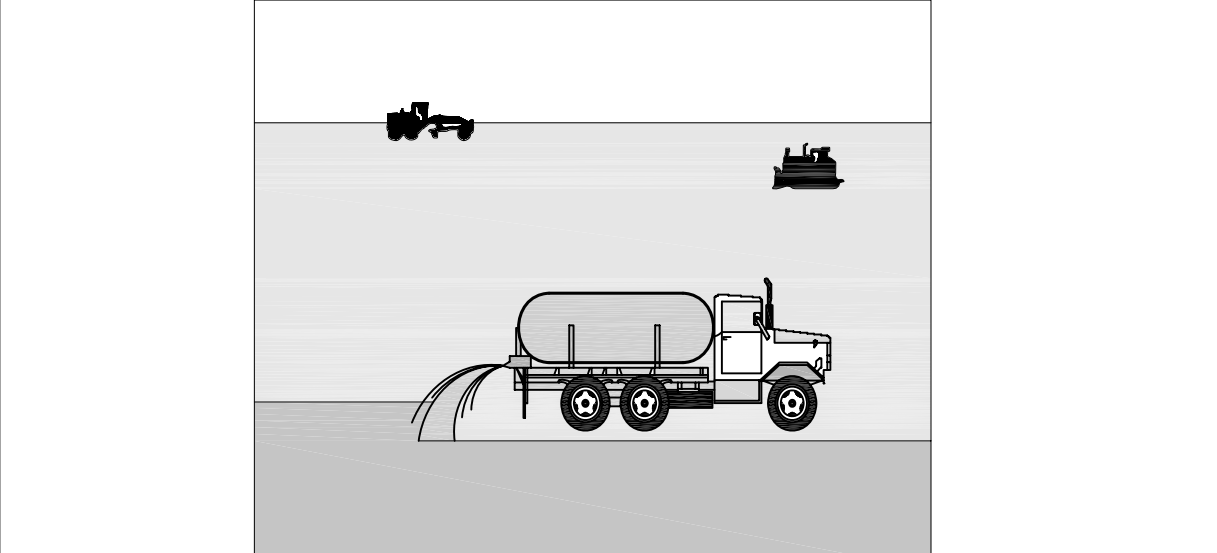
**ASPHALT AND BITUMINOUS PRODUCTS**

PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS FROM ASPHALT AND BITUMINOUS OPERATIONS, BY PREVENTING RUN-ON AND RUN-OFF DURING THE OPERATION, PROPERLY DISPOSING OF WASTES, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

- AVOID PRIME OR TACK COATING DURING WET WEATHER.
- STORE MATERIALS AWAY FROM DRAINAGE COURSES TO PREVENT MATERIAL FROM ENTERING THE RUN-OFF.
- COVER CATCH BASINS AND MANHOLES WHEN APPLYING SEAL COAT, TACK COAT, SLURRY SEAL, FOG SEAL, ETC.
- MAKE SURE SAND OR GRAVEL PLACED OVER NEW ASPHALT DOESN'T WASH INTO STORM DRAINS, STREETS, OR CREEKS.
- DISPOSE OF OLD ASPHALT PROPERLY. COLLECT AND REMOVE ALL BROKEN ASPHALT FROM THE SITE AND RECYCLE WHENEVER POSSIBLE. DO NOT DISPOSE OF ASPHALT PRODUCTS INTO WATERWAYS.
- FOLLOW THE STORM WATER PERMITTING REQUIREMENTS FOR INDUSTRIAL ACTIVITIES IF PAVING INVOLVES AN ON-SITE MIXING PLANT.

**ADDITIONAL GENERAL NOTES**

- TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE WWERP WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES TO MEET "AS GRADED" CONDITIONS.
  - ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR.
  - WHEN THE INSPECTOR SO DIRECTS, A 12-INCH BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS.
  - PROVIDE VELOCITY CHECK DAMS ACROSS THE OUTLETS OF ALL LOTS DRAINING INTO STREET.
  - ALL FILLS SHALL BE GRADED TO PROMOTE DRAINAGE AWAY FROM THE EDGE OF THE FILL.
  - ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS FROM BOTTOM TO TOP WITH A DOUBLE ROW OF SANDBAGS PRIOR TO BACKFILL. SEWER TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF SANDBAGS EXTENDING DOWNWARD. TWO SANDBAGS FROM THE GRADED SURFACE OF THE STREET. SANDBAGS ARE TO BE PLACED WITH ALTERNATE HEADER AND STRETCHER COURSES. THE INTERVALS PRESCRIBED BETWEEN SANDBAGS BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT NOT EXCEED THE FOLLOWING:
- | GRADE OF THE STREET | INTERVAL AS REQUIRED |
|---------------------|----------------------|
| LESS THAN 2%        | 100 FEET             |
| 2% TO 4%            | 50 FEET              |
| 4% TO 10%           | 25 FEET              |
| OVER 10%            | 25 FEET              |
- PROVIDE STANDARD "VELOCITY CHECK DAMS" AT ALL UNPAVED STREET AREAS AT THE INTERVALS INDICATED IN PARAGRAPH 6 ABOVE. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF SANDBAGS, TIMBER, OR ANOTHER EROSION RESISTANT MATERIAL APPROVED BY THE INSPECTOR AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. EARTH DAMS MAY NOT BE USED AS "VELOCITY CHECK DAMS".
  - PROVIDE STANDARD "VELOCITY CHECK DAMS" IN ALL UNPAVED CHANNELS AT THE INTERVALS INDICATED BELOW.
- | GRADE OF CHANNEL | INTERVALS BETWEEN CHECK DAMS |
|------------------|------------------------------|
| LESS THAN 3%     | 100 FEET                     |
| 3% TO 6%         | 50 FEET                      |
| OVER 6%          | 25 FEET                      |
- THE STANDARD VELOCITY CHECK DAM SHALL HAVE A MINIMUM HEIGHT OF 12-INCHES. VELOCITY CHECK DAMS ACROSS OUTLETS OF ALL LOTS SHALL HAVE A MINIMUM HEIGHT OF 18-INCHES. VELOCITY CHECK DAMS CONSTRUCTED WITH SANDBAGS THAT ARE 18-INCHES HIGH SHALL BE BUILT WITH A DOUBLE ROW.
  - AFTER SEWER AND UTILITY TRENCHES ARE BACK FILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDING SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AND REMOVED OF ALL DEBRIS AND SILT WITHIN 24 HOURS AND RESTORED TO THEIR ORIGINAL CAPACITY.
  - EROSION CONTROL DEVICES SHALL BE STOCKPILED IN PARKWAYS AT INTERVALS SHOWN ON THE WWERP, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECASTED OR WHEN DIRECTED BY THE INSPECTOR.
  - BRUSH AND VEGETATIVE GROUND COVER MAY NOT BE REMOVED MORE THAN 10 FEET ABOVE FILLS DURING THE RAINY SEASON WHICH OCCURS BETWEEN OCTOBER 1 AND APRIL 15.
  - ALL CUT & FILL SLOPES GREATER THAN 1 VERTICAL TO 3 HORIZONTAL SHALL BE COVERED WITH 1 MIL PLASTIC SHEETING TO BE HELD IN PLACE WITH SANDBAGS (UNLESS PLANTED OR HYDROSEEDED).
  - ENOUGH SANDBAGS WILL BE STOCKPILED ON SITE TO EFFECTUATE THIS PLAN AS SHOWN PER THIS PLAN. THOSE SANDBAGS SHOWN ON THIS PLAN THAT DO NOT IMPED EROSION WORK BEING DONE, WILL BE PLACED PER PLAN AND AS REQUIRED BY THE INSPECTOR(S) (PUBLIC WORKS OR BUILDING & SAFETY) IN THE FIELD.
  - THE LOCATION AND DESIGN OF ALL EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE INTENDING ONLY AND SUBJECT TO REVISIONS AS DETERMINED BY THE RESIDENT INSPECTOR AS CONDITIONS WARRANT. SILT, DEBRIS AND MUD SHALL BE PROMPTLY REMOVED FROM ALL EROSION CONTROL STRUCTURES AFTER EACH RAIN TO THE SATISFACTION OF THE RESIDENT INSPECTOR. THE CITY MAY CONDUCT AND DETERMINE THE NECESSITY OF ADDITIONAL EROSION CONTROL MEASURES.
  - STANDBY CREWS SHALL BE ALERTED BY THE PERMITEE OR CONTRACTOR FOR EMERGENCY WORK DURING RAINSTORM.



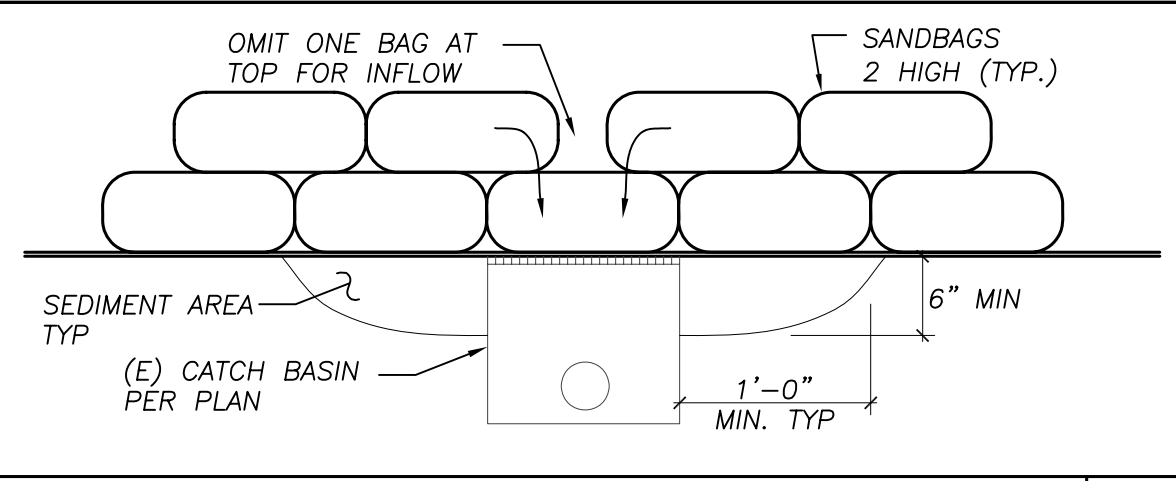
**STABILIZED CONSTRUCTION ENTRANCE/EXIT**  
TC-1

- Preventative Measures**
- Schedule construction activities to minimize exposed area (EC-1, Scheduling).
  - Quickly stabilize exposed soil using vegetation, mulching, spray-on adhesives, calcium chloride, sprinkling, and stone/gravel layering.
  - Identify and stabilize key access points prior to commencement of construction.
  - Minimize the impact of dust by anticipating the direction of prevailing winds.
  - Direct most construction traffic to stabilized roadways within the project site.
  - Water should be applied by means of pressure-type distributors or pipeline equipped with a spray system or hose and nozzles that will ensure even distribution.
  - All distribution equipment should be equipped with a positive means of shutoff.
  - Unless water is applied by means of pipelines, at least one mobile unit should be available at all times to apply water or dust palliative to the project.
  - If recycled water is used, the source and discharge must meet California Department of Health Services water reclamation criteria and the Regional Water Quality Control Board requirements. Non-potable water should not be conveyed in tanks or drain pipes that will be used to convey potable water and there should be no connection between potable and non-potable supplies. Non-potable tanks, pipes, and other conveyances should be marked, "NON-POTABLE WATER - DO NOT DRINK."
  - Materials applied as temporary soil stabilizers and soil binders also generally provide wind erosion control benefits.
  - Pave or chemically stabilize access points where unpaved traffic surfaces adjoin paved roads.
  - Provide covers for haul trucks transporting materials that contribute to dust.
  - Provide for wet suppression or chemical stabilization of exposed soils.
  - Provide for rapid clean up of sediments deposited on paved roads. Furnish stabilized construction road entrances and vehicle wash down areas.
  - Stabilize inactive construction sites using vegetation or chemical stabilization methods.
  - Limit the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.

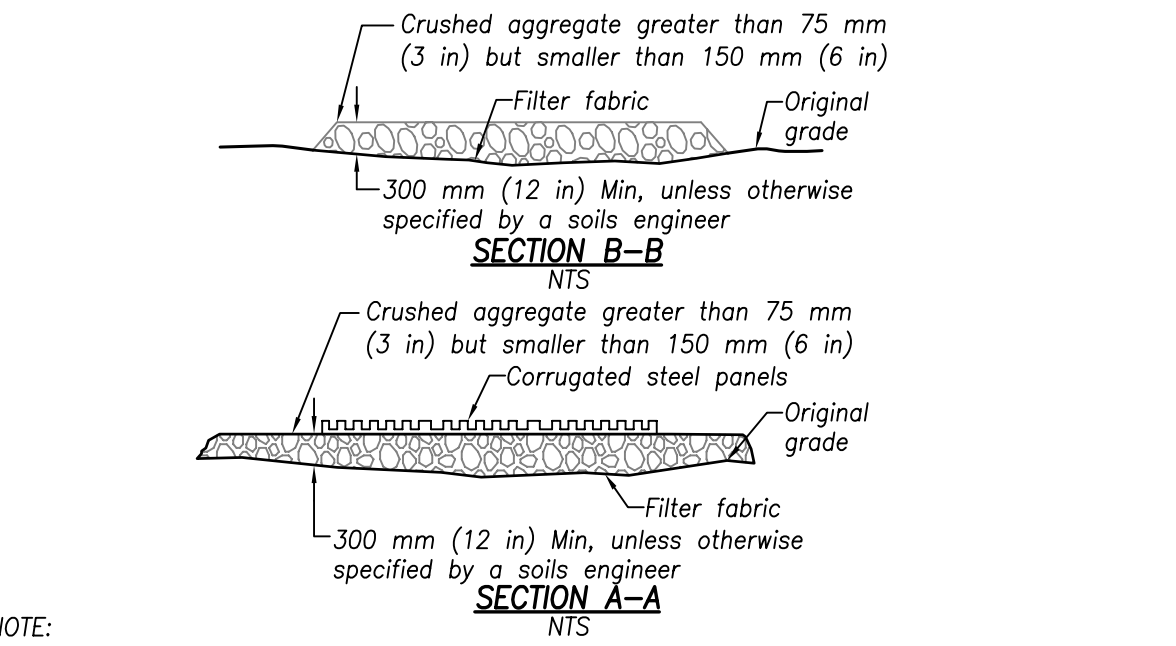
**Inspection & Maintenance**

- Inspect and verify that activity-based BMPs are in place to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly during the rainy season and at two-week intervals in the non-rainy season to verify continued BMP implementation.
- Check areas protected to ensure coverage.
- Most dust control measures require frequent, often daily, or multiple times per day attention.

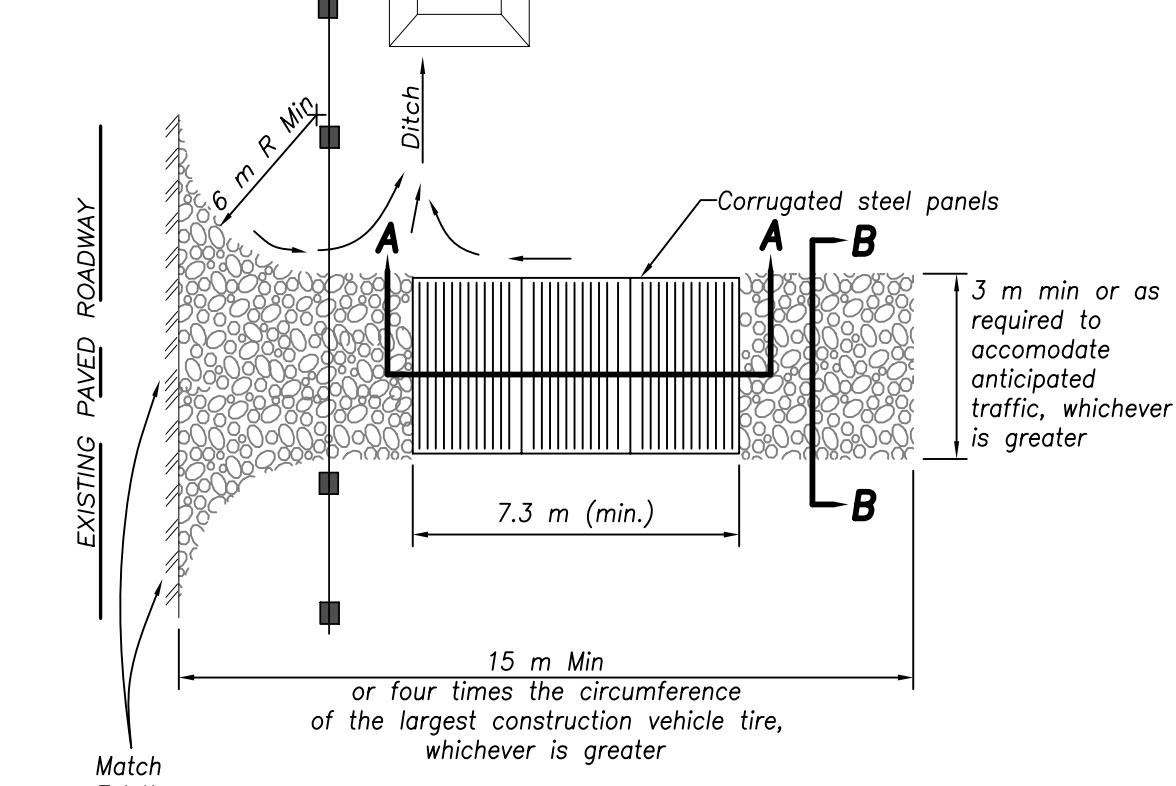
**WIND EROSION CONTROL**  
WE-1



**LOCAL CATCH BASIN INLET PROTECTION**  
H

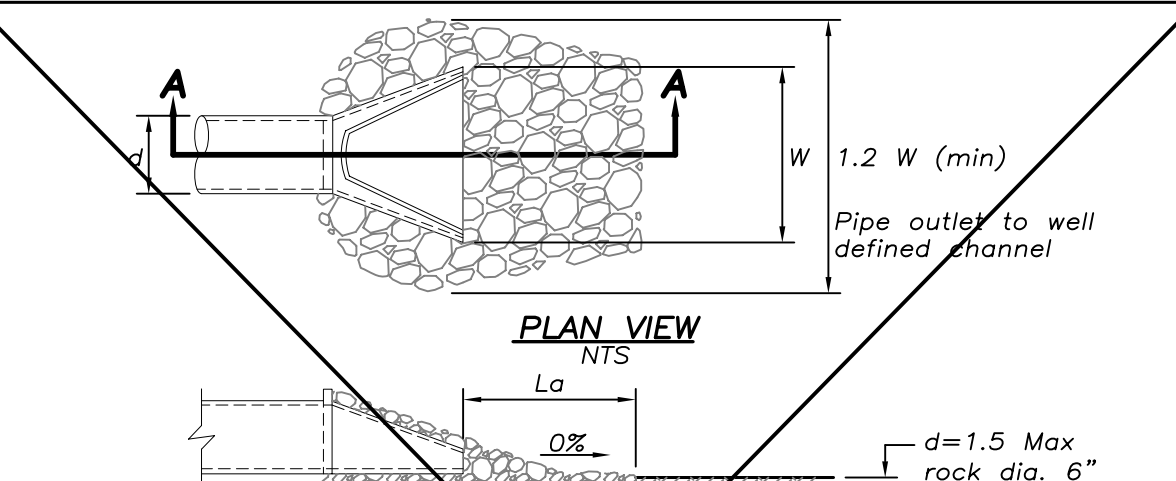


**SECTION B-B**  
**SECTION A-A**  
NTS



**STABILIZED CONSTRUCTION ENTRANCE/EXIT**  
TC-1

**STABILIZED CONSTRUCTION ENTRANCE/EXIT**  
I

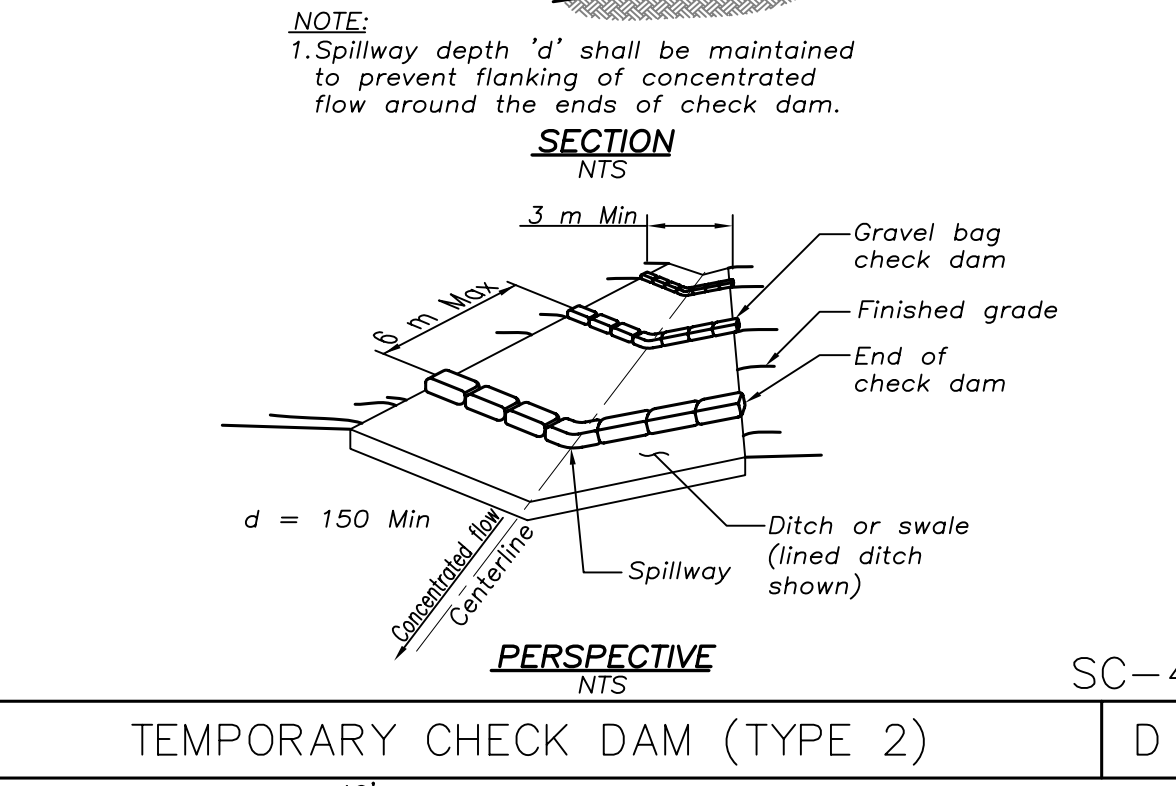


**VELOCITY DISSIPATION DEVICES**  
C

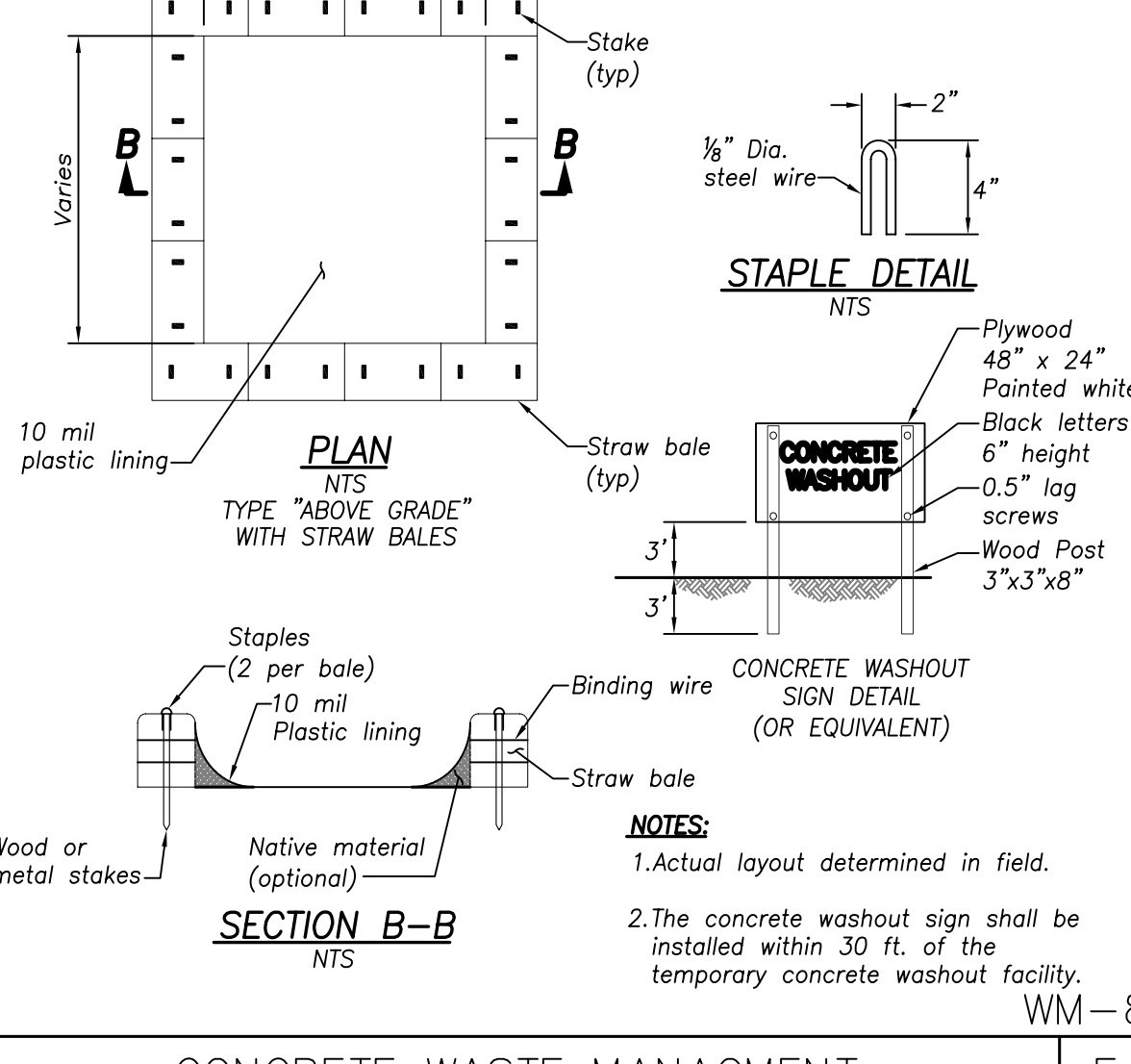
Pipe Diameter inches	Discharge ft/s	Baron Length, La ft	Rip Rap D Diameter Min inches
12	5	10	4
	10	13	6
18	10	10	6
	20	16	8
	30	23	12
	40	26	16
24	30	16	8
	40	26	12
	60	30	16

For larger or higher flows consult a Registered Civil Engineer

**VELOCITY DISSIPATION DEVICES**  
C



**TEMPORARY CHECK DAM (TYPE 2)**  
D



**CONCRETE WASTE MANAGEMENT**  
F

#	REVISIONS	DATE

GRADING PLAN PREPARED BY:  
**LC ENGINEERING GROUP, INC.**  
CONSULTING ENGINEERS  
880 Pierce Court, Suite 101, Thousand Oaks, California 91360  
(805) 497-1244 (818) 991-7148 FAX: (818) 991-5942 Email: workfiles@lcegroupinc.com

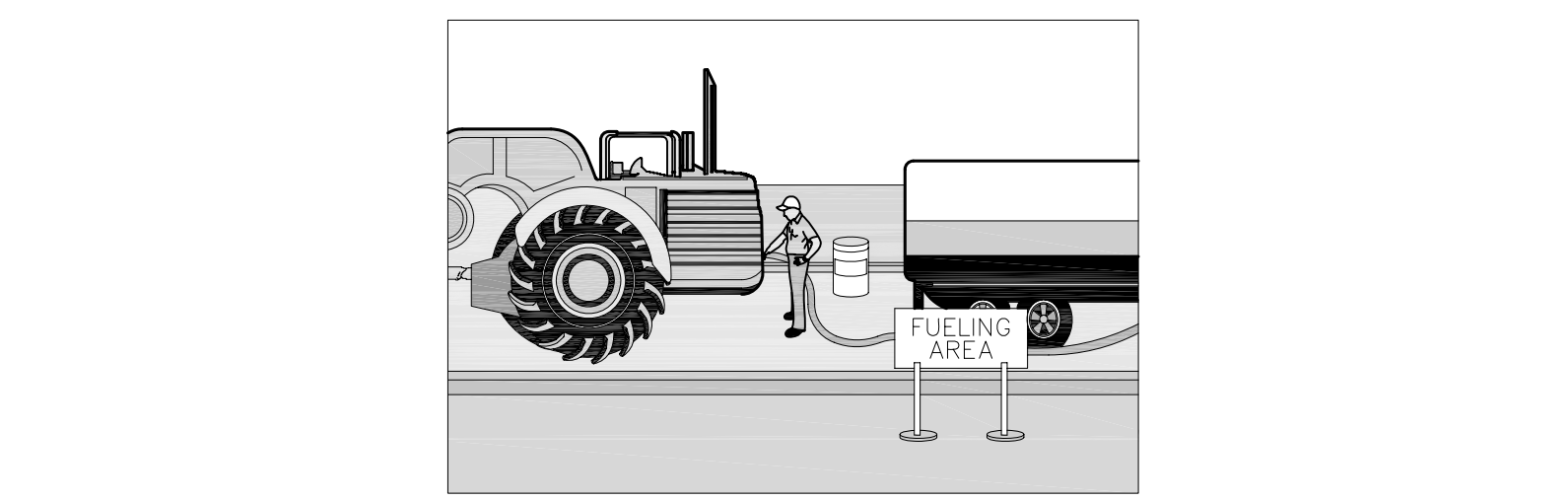
REGISTERED ENGINEER NO. 31902 DATE

**INDEX OF SHEETS**

SHT. 5	EROSION CONTROL COVER SHEET
SHT. 6	EROSION CONTROL PLAN
SHT. 7	EROSION CONTROL ATTACHMENTS (2009-2010)



**VICINITY MAP**



**IMPLEMENTATION**

- Use offsite fueling stations as much as possible. These businesses are better equipped to handle fuel and spills properly. Performing this work offsite can also be economical by eliminating the need for a separate fueling area at a site.
- Discourage "topping-off" of fuel tanks.
- Absorbent spill cleanup materials and spill kits should be available in fueling areas and on fueling trucks, and should be disposed of properly after use.
- Drip pans or absorbent pads should be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area.
- Use absorbent materials on small spills. Do not hose down or bury the spill. Remove the absorbent materials promptly and dispose of properly.
- Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas. With the exception of tracked equipment such as bulldozers and large excavators, most vehicles should be able to travel to a designated area with little lost time.
- Train employees and subcontractors in proper fueling and cleanup procedures.
- When fueling must take place onsite, designate an area away from drainage courses to be used. Fueling areas should be identified in the SWPPP.
- Dedicated fueling areas should be protected from stormwater runoff and runoff, and should be located at least 50 feet away from downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas.
- Protect fueling areas with berms and dikes to prevent runoff, and to contain spills.
- Nozzles used in vehicle and equipment fueling should be equipped with an automatic shutoff to control drips. Fueling operations should not be left unattended.
- Use vapor recovery nozzles to help control drips as well as air pollution where required by Air Quality Management Districts (AQMD).
- Federal, state, and local requirements should be observed for any stationary above ground storage tanks.

**Inspection and Maintenance**

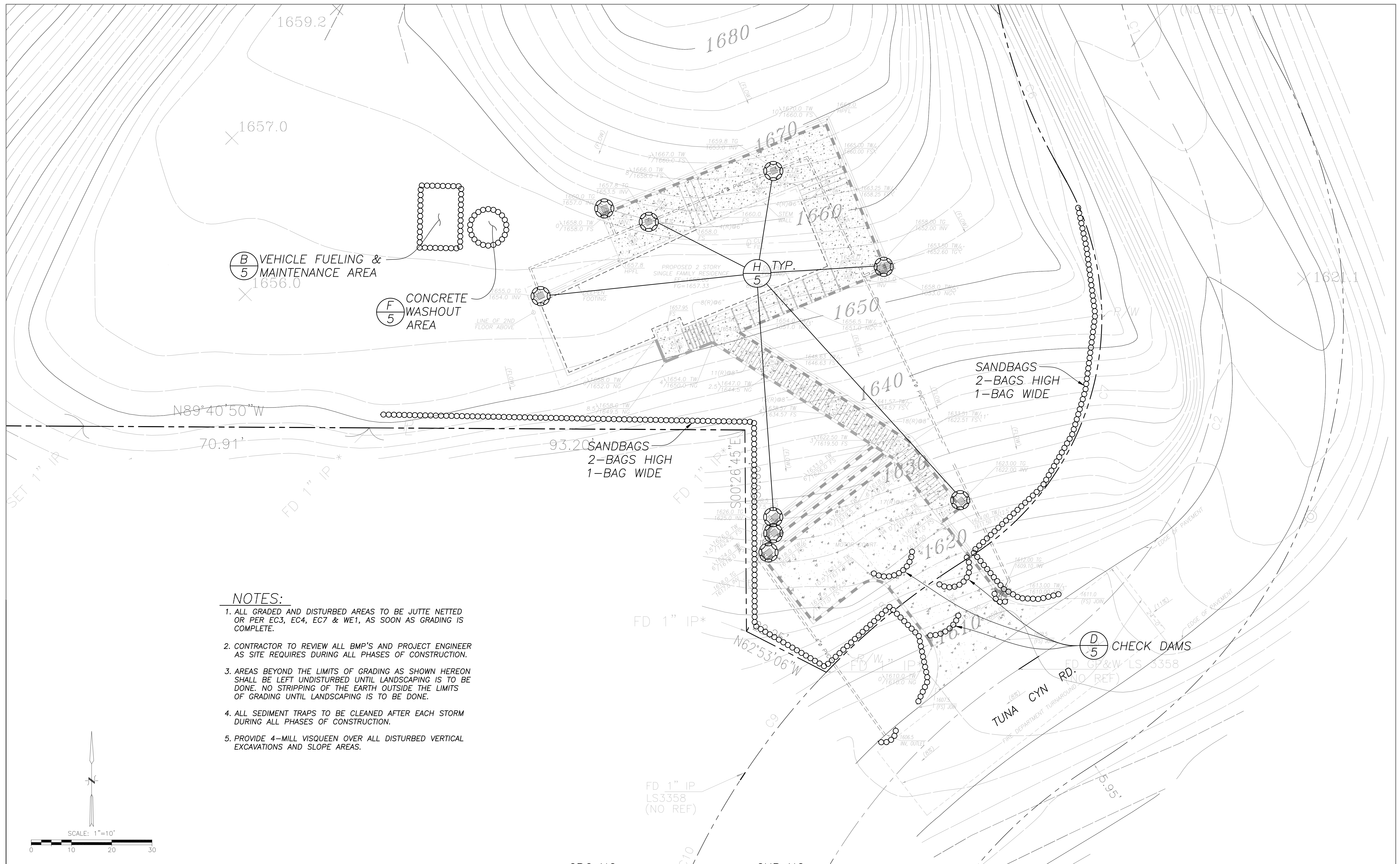
- Vehicles and equipment should be inspected each day of use for leaks. Leaks should be repaired immediately or problem vehicles or equipment should be removed from the project site.
- Keep ample supplies of spill cleanup materials onsite.
- Immediately clean up spills and properly dispose of contaminated soil and cleanup materials.

**VEHICLE/EQUIPMENT FUELING**  
NS-9

COUNTY OF LOS ANGELES  
**WET WEATHER EROSION CONTROL PLAN**  
TUNA CANYON ROAD

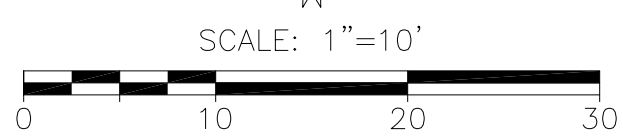
DRAWN BY / DATE \_\_\_\_\_ CHECKED BY / DATE \_\_\_\_\_ SHEET 5 OF 7





**NOTES:**

1. ALL GRADED AND DISTURBED AREAS TO BE JUTTE NETTED OR PER EC3, EC4, EC7 & WE1, AS SOON AS GRADING IS COMPLETE.
2. CONTRACTOR TO REVIEW ALL BMP'S AND PROJECT ENGINEER AS SITE REQUIRES DURING ALL PHASES OF CONSTRUCTION.
3. AREAS BEYOND THE LIMITS OF GRADING AS SHOWN HEREON SHALL BE LEFT UNDISTURBED UNTIL LANDSCAPING IS TO BE DONE. NO STRIPPING OF THE EARTH OUTSIDE THE LIMITS OF GRADING UNTIL LANDSCAPING IS TO BE DONE.
4. ALL SEDIMENT TRAPS TO BE CLEANED AFTER EACH STORM DURING ALL PHASES OF CONSTRUCTION.
5. PROVIDE 4-MILL VISQUEEN OVER ALL DISTURBED VERTICAL EXCAVATIONS AND SLOPE AREAS.



<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">D</td></tr> <tr><td style="text-align: center;">C</td></tr> <tr><td style="text-align: center;">B</td></tr> <tr><td style="text-align: center;">A</td></tr> </table>	D	C	B	A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">REVISION DESCRIPTION</td></tr> <tr><td style="text-align: center;">APP DATE</td></tr> </table>	REVISION DESCRIPTION	APP DATE	<p style="text-align: center;">DESIGN ENGINEER <b>LC ENGINEERING GROUP, INC.</b> <small>8500 Florence Court, Suite 101, Thousand Oaks, California 91320 (805) 497-1244 (818) 991-7148 FAX (818) 991-5942 Email: workfiles@lcegroup.com</small></p> <p style="text-align: center;">31902 LEONARD LISTON      RCE      DATE</p>		<p style="text-align: center;">GPC NO. _____</p> <p style="text-align: center;">CUP NO. _____</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">DESIGNED EM</td><td style="text-align: center;">DRAWN HG</td><td style="text-align: center;">CHECKED _____</td></tr> <tr><td style="text-align: center;">PROJ. ENG. _____</td><td style="text-align: center;">RECOMMENDED _____</td><td style="text-align: center;">APPROVED _____</td></tr> <tr><td style="text-align: center;">REG. NO. _____</td><td style="text-align: center;">DATE _____</td><td style="text-align: center;">DATE _____</td></tr> </table>	DESIGNED EM	DRAWN HG	CHECKED _____	PROJ. ENG. _____	RECOMMENDED _____	APPROVED _____	REG. NO. _____	DATE _____	DATE _____	<p style="font-size: 24pt; font-weight: bold;">COUNTY OF LOS ANGELES</p>	<p style="text-align: center;">SPEC. NO. 6111</p>	<p style="font-weight: bold;">EROSION CONTROL PLAN</p> <p>APN 4448-007-062 ALEX SCHNITZLER TUNA CANYON ROAD TOPANGA, CA. 90290</p>	<p style="text-align: center;">SHEET <u>6</u> OF <u>7</u> DRAWING NO. _____</p>
D																								
C																								
B																								
A																								
REVISION DESCRIPTION																								
APP DATE																								
DESIGNED EM	DRAWN HG	CHECKED _____																						
PROJ. ENG. _____	RECOMMENDED _____	APPROVED _____																						
REG. NO. _____	DATE _____	DATE _____																						

DEPARTMENT OF BUILDING AND SAFETY  
 COUNTY OF LOS ANGELES  
 STORMWATER DEVELOPMENT CONSTRUCTION PROGRAM  
 EFFECTIVE AUGUST 3, 1999

PRIORITY PROJECTS

THIS HANDOUT IS TO PROVIDE ASSISTANCE FOR APPLICANTS TO COMPLY WITH THE CITY'S STORMWATER DEVELOPMENT CONSTRUCTION PROGRAM FOR PROJECTS CLASSIFIED AS PRIORITY PROJECTS. PROJECTS DEEMED TO BE CLASSIFIED AS PRIORITY PROJECTS ARE:

- SITES OF GREATER THAN TWO ACRES BUT LESS THAN FIVE ACRES OF DISTURBED SOIL;
- ADJOINING OR LOCATED IN ENVIRONMENTAL SENSITIVE AREAS; OR
- LOCATED IN DESIGNATED HILLSIDE AREAS.

THE REQUIREMENT TO IMPLEMENT A STORMWATER DEVELOPMENT CONSTRUCTION PROGRAM IS BASED UPON THE PRIMARY OBJECTIVES SET FORTH IN THE 1987 AMENDMENTS OF FEDERAL CLEAN WATER ACT. UNDER THE FEDERAL CLEAN WATER ACT, EACH MUNICIPALITY THROUGHOUT THE NATION WHICH DISCHARGE ITS STORM DRAIN SYSTEM INTO THE WATERS OF THE UNITED STATES IS REQUIRED TO OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. THE CURRENT NPDES PERMIT ISSUED TO LOS ANGELES COUNTY AND 85 CITIES (INCLUDING THE CITY OF LOS ANGELES) BY THE LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD ON JULY 15, 1996 CONTAIN A REQUIREMENT FOR THE COUNTY AND 85 CITIES TO DEVELOP AND IMPLEMENT A DEVELOPMENT CONSTRUCTION ACTIVITIES FROM ENTERING THE STORM DRAIN SYSTEM.

REQUIREMENTS

I. LOCAL STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

PRIOR TO THE ISSUANCE OF A BUILDING OR GRADING PERMIT, APPLICANTS MUST PREPARE AND SUBMIT A LOCAL STORM WATER POLLUTION PREVENTION PLAN. THE LOCAL SWPPP IS TO SHOW ALL BEST MANAGEMENT PRACTICES (BMPs) NECESSARY TO CONTROL AND PREVENT DISCHARGE OF POLLUTANTS, GENERATED BY THE CONSTRUCTION ACTIVITIES SPECIFIC TO EACH SITE, INTO THE STORM DRAIN SYSTEM. A COPY OF THE LOCAL SWPPP SHALL BE ATTACHED TO THE FIELD SET OF PLANS AND KEPT ON THE PROJECT SITE AT ALL TIMES AFTER THE START OF CONSTRUCTION.

WHEN PREPARING A LOCAL SWPPP, THE PREPARER SHOULD ASSESS SITE CONDITIONS, IDENTIFY CONSTRUCTION ACTIVITIES WITH THE POTENTIAL TO CAUSE STORM WATER POLLUTION, AND THEN IDENTIFY BMPs THAT WILL BEST SUIT THE CONSTRUCTION ACTIVITIES. A LISTING BMPs IS CONTAINED IN THE "DEVELOPMENT BEST MANAGEMENT PRACTICES HANDBOOK, PART A CONSTRUCTION ACTIVITIES" PUBLISHED BY THE STORMWATER MANAGEMENT DIVISION.

THE LOCAL SWPPP SHALL CONTAIN THE FOLLOWING:

- THE ADDRESS OF THE PROJECT;
- A BRIEF DESCRIPTION OF THE PROJECT;
- THE OWNER/DEVELOPER'S NAME, ADDRESS, PHONE NUMBER, AND CONTACT PERSON(S);
- CONTRACTOR'S NAME, ADDRESS, PHONE NUMBER, AND CONTACT PERSON(S), IF AVAILABLE AT ISSUANCE OF PERMIT;
- A LIST OF MAJOR CONSTRUCTION MATERIALS, WASTE, AND ACTIVITIES AT THE PROJECT SITE;
- A SITE PLAN (A CONSTRUCTION OR SITE PLAN MAY BE USED) WITH THE FOLLOWING:
  - THE PROJECT BOUNDARY AND/OR LIMITS OF GRADING.
  - THE FOOTPRINT OF EXISTING AND PROPOSED BUILDING(S) OR STRUCTURE(S).
  - SPECIFIC LOCATIONS WHERE CONSTRUCTION MATERIALS, VEHICLES, AND EQUIPMENT WILL BE STORED, USED, MAINTAINED, AND DISPOSED, ALONG WITH LOCATIONS OF STRUCTURAL MEASURES THAT WILL BE USED TO CONTAIN THESE MATERIALS ONSITE.
  - EXISTING AND FINISH GRADES OF THE SITE.
  - THE LOCATION(S) WHERE RUNOFF FROM THE SITE MAY ENTER STORM DRAIN(S), CHANNELS, AND/OR RECEIVING WATER(S).
  - A LISTING OF BMPs SELECTED.
  - LOCATION(S) OF SELECTED BMPs WHERE APPROPRIATE.

II. ATTACHMENTS TO LOCAL SWPPP

- CERTIFICATION—PRIOR TO THE ISSUANCE OF A BUILDING OR GRADING PERMIT, A CERTIFICATION SIGNED BY THE OWNER OR AUTHORIZED AGENT OF THE OWNER MUST BE SUBMITTED. SUCH CERTIFICATION SHALL STATE THAT THE LOCAL SWPPP SHALL BE IMPLEMENTED YEAR-ROUND. THE SIGNED CERTIFICATION SHALL BE ATTACHED TO THE APPROVED SWPPP. (ATTACHMENT 1)
- GENERAL NOTES (ATTACHMENT 2)
- SELF INSPECTION—TO ENSURE THAT BMPs ARE PROPERLY IMPLEMENTED AND FUNCTION EFFECTIVELY, AND TO IDENTIFY MAINTENANCE AND REPAIR NEEDS, INSPECTION BY THE DEVELOPERS OR CONTRACTORS IS REQUIRED. SUCH INSPECTIONS SHALL BE RECORDED ON THE ATTACHED FORM AND MADE AVAILABLE TO CITY INSPECTORS WHEN REQUESTED. (ATTACHMENT 3)
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED IN TO THE PUBLIC WAYS. ACCIDENTAL DEPOSITIONS MUST BE SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR BY ANY OTHER MEANS.

AS THE PROJECT OWNER OR AUTHORIZED AGENT OF THE OWNER, I HAVE READ AND UNDERSTAND THE REQUIREMENTS TO CONTROL STORM WATER POLLUTIONS FROM SEDIMENT, EROSION, AND CONSTRUCTION MATERIALS, AND I CERTIFY THAT I WILL COMPLY WITH THESE REQUIREMENTS. I, OR MY REPRESENTATIVE, CONTRACTOR, DEVELOPER, OR ENGINEER WILL MAKE CERTAIN THAT ALL BMP SHOWN ON THIS PLAN WILL BE FULLY IMPLEMENTED, AND ALL EROSION CONTROL DEVICES WILL BE KEPT CLEAN AND FUNCTIONING. PERIODIC INSPECTIONS OF THE BMP'S WILL BE CONDUCTED AND A CURRENT LOG, SPECIFYING THE EXACT NATURE OF THE INSPECTION AND ANY REMEDIAL MEASURES, WILL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES AND WILL BE AVAILABLE FOR THE REVIEW BY THE BUILDING OFFICAL.

AS THE PROJECT OWNER OR AUTHORIZED AGENT OF THE OWNER, I CERTIFY THAT THIS DOCUMENT AND AL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT SUBMITTING FALSE AND/OR INACCURATE INFORMATION, FAILING TO UPDATE THE LOCAL SWPPP TO REFLECT CURRENT CONDITIONS, OR FAILING TO PROPERLY AND/OR ADEQUATELY IMPLEMENT THE LOCAL SWPPP MAY RESULT IN REVOCATION OF GRADING AND/OR OTHER PERMITS OR OTHER SANCTIONS PROVIDED BY LAW"

PRINT NAME: \_\_\_\_\_  
 (OWNER OR AUTHORIZED AGENT OF THE OWNER)

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 (OWNER OR AUTHORIZED AGENT OF THE OWNER)

STORMWATER DEVELOPMENT CONSTRUCTION PROGRAM  
 ON SITE SELF-INSPECTION CHECKLIST

TO BE ATTACHED TO THE LOCAL SWPPP

INSPECTED BY: \_\_\_\_\_

PROJECT ADDRESS: TUNA CANYON ROAD

CONTRACTOR: \_\_\_\_\_

DATE: \_\_\_\_\_

CHECK "YES" OR "NO" OR "N/A" IF NOT APPLICABLE

	YES	NO	N/A		TYPE OF INSPECTION			
					ROUTINE	PRE-STORM	POST-STORM	
_____	_____	_____	_____	1.				HAS THERE BEEN AN ABSENCE OF RAIN SINCE THE LAST INSPECTION?
_____	_____	_____	_____	2.				ARE ALL SEDIMENT BARRIERS (E.G., SANDBAGS, STRAW BALES, AND SILT FENCES) IN PLACE ACCORDANCE WITH THE LOCAL SWPPP OR WWCP AND ARE THEY FUNCTIONING PROPERLY?
_____	_____	_____	_____	3.				IF PRESENT, ARE ALL EXPOSED SLOPES PROTECTED FROM EROSION THROUGH THE IMPLEMENTATION OF ACCEPTABLE SOIL STABILIZATION PRACTICES?
_____	_____	_____	_____	4.				IF PRESENT, ARE ALL SEDIMENT TRAPS BASICS INSTALLED AND FUNCTIONING PROPERLY? (IF APPLICABLE)
_____	_____	_____	_____	5.				ARE ALL MATERIAL HANDLING AND STORAGE AREAS REASONABLY CLEAN AND FREE OF SPILLS, LEAKS, OR OTHER DELETERIOUS MATERIALS?
_____	_____	_____	_____	6.				ARE ALL EQUIPMENT STORAGE AND MAINTENANCE AREA REASONABLY CLEAN AND FREE OF SPILLS, LEAKS OR ANY OTHER DELETERIOUS MATERIALS?
_____	_____	_____	_____	7.				ARE ALL MATERIALS AND EQUIPMENT PROPERLY COVERED?
_____	_____	_____	_____	8.				ARE ALL EXTERNAL DISCHARGE POINTS (I.E., OUTFALLS) REASONABLY FREE OF ANY NOTICEABLE POLLUTANT DISCHARGES?
_____	_____	_____	_____	9.				ARE ALL INTERNAL DISCHARGE POINTS (I.E., STORM DRAIN INLETS) PROVIDED WITH INLET PROTECTION?
_____	_____	_____	_____	10.				ARE ALL EXTERNAL DISCHARGE POINTS REASONABLY FREE OF ANY SIGNIFICANT EROSION OR SEDIMENT TRANSPORT?
_____	_____	_____	_____	11.				ARE ALL BMPs IDENTIFIED ON THE PLAN INSTALLED IN THE PROPER LOCATION AND ACCORDING TO THE SPECIFICATIONS FOR THE PLAN?
_____	_____	_____	_____	12.				ARE ALL STRUCTURAL CONTROL PRACTICES IN GOOD REPAIR AND MAINTAINED IN FUNCTIONING ORDER?
_____	_____	_____	_____	13.				ARE ALL ON-SITE TRAFFIC ROUTES, PARKING, AND STORAGE OF EQUIPMENT AND SUPPLIES RESTRICTED TO AREAS DESIGNATED IN THE PLAN FOR THOSE USES?
_____	_____	_____	_____	14.				ARE ALL LOCATIONS OF TEMPORARY SOIL STOCKPILES OR CONSTRUCTION MATERIALS IN APPROVED AREAS?
_____	_____	_____	_____	15.				ARE ALL SEEDED OR LANDSCAPED AREAS PROPERLY MAINTAINED?
_____	_____	_____	_____	16.				ARE SEDIMENT TREATMENT CONTROLS IN PLACE AT DISCHARGE POINTS FROM THE SITE?
_____	_____	_____	_____	17.				ARE SLOPES FREE OF SIGNIFICANT EROSION?
_____	_____	_____	_____	18.				ARE ALL POINTS OF INGRESS AND EGRESS FROM THE SITE PROVIDED WITH STABILIZED CONSTRUCTION ENTRANCES?
_____	_____	_____	_____	19.				IS SEDIMENT, DEBRIS, OR MUD BEING CLEANED FROM PUBLIC ROADS AT INTERSECTIONS WITH SITE ACCESS ROADS?
_____	_____	_____	_____	20.				DOES THE PLAN REFLECT CURRENT SITE CONDITIONS?

INSPECTION LOG

THE SITE SHALL BE INSPECTED BEFORE AND AFTER STORM EVENTS WITH 0.25 INCHES OR GREATER OF ACTUAL PRECIPITATION PREDICTED WITH A PROBABILITY OF 40% OR GREATER AND DOCUMENTED ON THE CONSTRUCTION SITE INSPECTION CHECKLIST. INCIDENTS OF NON-COMPLIANCE MUST BE REPORTED TO THE ENGINEER.

DATE	INSPECTOR	TYPE OF INSPECTION			OBSERVATIONS
		ROUTINE	PRE-STORM	POST-STORM	

JOB ADDRESS: TUNA CANYON ROAD PERMIT #: \_\_\_\_\_

STORMWATER DEVELOPMENT CONSTRUCTION PROGRAM  
 PRIORITY PROJECTS  
 CERTIFICATION STATEMENT

AS THE OWNER OR AUTHORIZED AGENT OF THE OWNER, I CERTIFY THAT THE APPROXIMATE BMP'S WILL BE IMPLEMENTED IS EFFECTIVELY MINIMIZE THE NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE PROJECT CONTRACTOR IS AWARE THAT THE SELECTED BMP'S MUST BE INSTALLED, MONITORED, AND MAINTAINED TO ENSURE THEIR EFFECTIVENESS, THE BMP'S NOT SELECTED FOR IMPLEMENTATION ARE REDUNDANT OR DEEMED NOT APPLICABLE TO THE PROPOSED CONSTRUCTION ACTIVITIES.

COMPLETED FORM TO BE ATTACHED TO THE LOCAL STORM WATER POLLUTION PREVENTION PLAN.

PRINT NAME: ALEX SCHNITZLER  
 (OWNER OR AUTHORIZED AGENT OF THE OWNER)

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 (OWNER OR AUTHORIZED AGENT OF THE OWNER)

LOCAL SWPPP BMP SELECTION WORKSHEET

BMP DESCRIPTION	WILL BMP BE USED?		COMMENTS
	YES	NO	
SITE PLANNING CONSIDERATIONS			
SCHEDULING	EC1	<input checked="" type="checkbox"/>	
PRESERVING OF EXISTING VEGETATION	EC2	<input checked="" type="checkbox"/>	N/A, ALL VEGETATION REMOVED TO BE REPLACED WITH NEW PLANTING & SOD.
CONSTRUCTION PRACTICES			
DEWATERING OPERATIONS	NS2	<input checked="" type="checkbox"/>	NOT REQUIRED BY SOILS ENGINEER
PAVING OPERATIONS	NS3	<input checked="" type="checkbox"/>	
STRUCTURE CONSTRUCTION & PAINT	NS4	<input checked="" type="checkbox"/>	
DUST CONTROL	NS5	<input checked="" type="checkbox"/>	
VEHICLE & EQUIPMENT MANAGEMENT			
VEHICLE & EQUIP. CLEANING	NS8	<input checked="" type="checkbox"/>	
VEHICLE & EQUIP. FUELING	NS9	<input checked="" type="checkbox"/>	
VEHICLE & EQUIP. MAINTENANCE	NS10	<input checked="" type="checkbox"/>	
TRACKING CONTROL			
STABILIZED CONSTRUCTION ENTRANCE	TC1	<input checked="" type="checkbox"/>	
CONTRACTOR TRAINING			
EMPLOYEE/SUBCONTRACTOR TRNG.	CT1	<input checked="" type="checkbox"/>	
MATERIAL MANAGEMENT			
MATERIAL DELIVERY AND STORAGE	WM10	<input checked="" type="checkbox"/>	
MATERIAL USE	WM11	<input checked="" type="checkbox"/>	
SPILL PREVENTION AND CONTROL	WM12	<input checked="" type="checkbox"/>	
WASTE MANAGEMENT			
SOLID WASTE MANAGEMENT	WM20	<input checked="" type="checkbox"/>	
HAZARDOUS WASTE MANAGEMENT	WM21	<input checked="" type="checkbox"/>	
CONTAMINATED SOIL MANAGEMENT	WM22	<input checked="" type="checkbox"/>	N/A, NO EX. ON-SITE CONTAMINATED SOIL. IF SPILL OCCURS CONTRACTOR TO USE CA022
CONCRETE WASTE MANAGEMENT	WM23	<input checked="" type="checkbox"/>	
SANITARY/SEPTIC WASTE MANAGEMENT	WM24	<input checked="" type="checkbox"/>	

JOB ADDRESS: TUNA CANYON ROAD PERMIT #: \_\_\_\_\_

DEPARTMENT OF BUILDING AND SAFETY  
 MINIMUM REQUIREMENTS FOR CONSTRUCTION PROJECTS/  
 CERTIFICATION STATEMENT

THE FOLLOWING IS INTENDED AS AN ATTACHMENT TO THE CONSTRUCTION/GRADING PLANS AND REPRESENT THE MINIMUM STANDARDS OF GOOD HOUSEKEEPING WHICH MUST BE IMPLEMENTED ON ALL SITES CLASSIFIED AS DEVELOPMENT CONSTRUCTION PROJECTS.

DEVELOPMENT CONSTRUCTION PROJECTS ARE DEFINED AS PROJECTS WHERE THERE IS LESS THAN TWO ACRES OF DISTURBED SOIL, NOT LOCATED IN DESIGNATED HILLSIDE AREAS, AND NOT ON OR ADJACENT TO AN ENVIRONMENTAL SENSITIVE AREA. NOTE: A PROJECT IN A DESIGNATED HILLSIDE AREA WITH LESS THAN TWO ACRES OF DISTURBED SOIL AND NOT IN OR ADJACENT TO AN ENVIRONMENTAL SENSITIVE AREA, MAY BE CLASSIFIED AS A DEVELOPMENT CONSTRUCTION PROJECT IF THE GRADING PRE-INSPECTION (GPI) IS NOT REQUIRED OR THE ENTIRE LOT HAS A SLOPE OF TEN PERCENT OR LESS.

- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ONSITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSE, OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY WIND OR WATER.
- FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL NOR THE SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ONSITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.



#	REVISIONS	DATE

GRADING PLAN PREPARED BY:  
  
**LC ENGINEERING GROUP, INC.**  
 CONSULTING ENGINEERS  
 889 Pierce Court, Suite 101, Thousand Oaks, California 91360  
 (805) 497-1244 (818) 991-7148 FAX (818) 991-5942 Email: workfiles@lcegroupinc.com

REGISTERED ENGINEER NO. 31902 DATE \_\_\_\_\_

COUNTY OF LOS ANGELES  
 EROSION CONTROL ATTACHMENTS  
 TUNA CANYON ROAD  
 SHEET 7 OF 7

DRAWN BY / DATE: \_\_\_\_\_ CHECKED BY / DATE: \_\_\_\_\_  
 HC EM