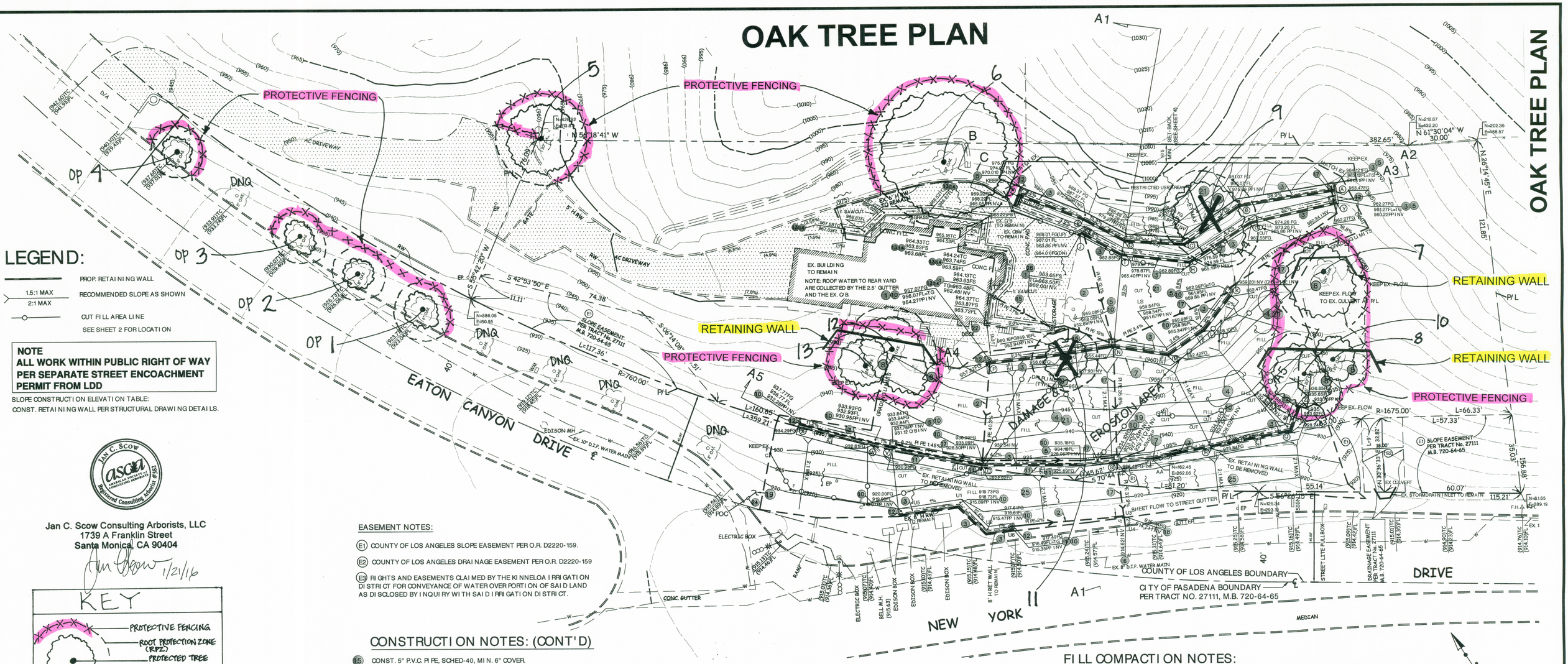
# OAK TREE PLAN




## LEGEND:

- PROP. RETAINING WALL
- 1.5:1 MAX / 2:1 MAX — RECOMMENDED SLOPE AS SHOWN
- CUT FILL AREA LINE — SEE SHEET 2 FOR LOCATION

**NOTE**
**ALL WORK WITHIN PUBLIC RIGHT OF WAY PER SEPARATE STREET ENCOACHMENT PERMIT FROM LDD**

SLOPE CONSTRUCTION ELEVATION TABLE:
CONST. RETAINING WALL PER STRUCTURAL DRAWING DETAILS.

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Jan Scow 1/21/16

### KEY

- PROTECTIVE FENCING
- ROOT PROTECTION ZONE (RPZ)
- PROTECTED TREE
- DRIPLINE

## CONSTRUCTION NOTES:

1. CONST. 4" AREA DRAIN, SEE THE DETAIL ON SHEET 2.
2. CONST. 4" P.V.C. PIPE, SCHED-40, MIN. 6" COVER.
3. CONST. 4" PERFORATED PVC SCH. 40 PIPE WITH ASSOCIATED DRAINAGE GRAVELS, MOISTURE BARRIER. SEE DETAIL SHOWN IN SHEET 2.
4. REMOVE, BENCH COMPETENT SOIL, RECOMPACT THE FAILED SLOPE PER SOILS ENGINEER RECOMMENDATIONS, SEE SOILS REPORT BY MTC AND SHEET 4 FOR DETAILS.
5. CONST. 24" X 24" CATCH BASIN PER BROOKS PRODUCTS INC. DWG, NO. 1818 (NON TRAFFIC GRATE) OR EQUAL. CUT OPENING ON SIDES FOR INLETS.
6. CONST. 2.5' BY 4" CONCRETE BOX CURB DRAIN PER APWA STD. PLAN NO. 151-1. INLET TYPE 1.
7. CONST. RETAINING WALL, SEE STRUCTURAL DRAWINGS FOR DETAILS. (TO BE CONSTRUCTED UNDER SEPARATED PERMIT FROM BUILDING DEPT.)
8. EX. OAK TREE TO BE PROTECTED IN PLACE.
9. REMOVE EX. OAK TREE.
10. CONST. 2' WIDE CONC. SWALE, SEE THE DETAIL SHOWN ON SHEET 2.
11. CONST. 2" DIA. PVC PIPE WEEPHOLE 25' MAX. CENTERS, 3" ± ABOVE FG. WITH 18" X 10-1/2" X 3" CONCRETE SPLASH BLOCK TO PREVENT EROSION OF SOIL.
12. CONST. 2.85' WIDE X 4.25' HIGH X 6" THICK CONC. SPLASH BLOCK AT END OF GUTTER. TOP OF BLOCK 2' ABOVE FINISHED GRADE.
13. CONST. 2.5' CONC. GUTTER, SEE DETAIL HEREON. SAWCUT 1' EX. CONC. FROM GUTTER AND BACKFILL SIMILAR.
14. CONST. 6" CURB ONLY A1-150 PER APWA STD. PLAN 120-1 AS SPLASH BOARD. NOT USED

EASEMENT NOTES:

(E1) COUNTY OF LOS ANGELES SLOPE EASEMENT PER O.R. D2220-159.
(E2) COUNTY OF LOS ANGELES DRAINAGE EASEMENT PER O.R. D2220-159
(E3) RIGHTS AND EASEMENTS CLAIMED BY THE KINNELOA IRRIGATION DISTRICT FOR CONVEYANCE OF WATER OVER PORTION OF SAID LAND AS DISCLOSED BY INQUIRY WITH SAID IRRIGATION DISTRICT.

## CONSTRUCTION NOTES: (CONT'D)

15. CONST. 5" P.V.C. PIPE, SCHED-40, MIN. 6" COVER.
16. CONST. SAFETY RAILING, SEE STRUCTURAL PLANS FOR DETAILS. (TO BE CONSTRUCTED UNDER SEPARATED PERMIT FROM BUILDING DEPT.)
17. CONST. 6" P.V.C. PIPE, SCHED-40, MIN. 6" COVER.
18. CONST. 4" PVC 90° PIPE BEND WITH 6" PVC PIPE TEE, SCHED-40.
19. CONST. WATER PIPELINE WITH SPRINKLERS, FITTINGS AND SENSORS FOR IRRIGATION. SEE LANDSCAPING PLAN FOR DETAILS.
20. CONST. 1" WATER METER BOX CONNECTED TO EX. 10" D.I.P. WATER MAIN, PER APWA STD. PLAN W5. AND CONNECT TO LANDSCAPING IRRIGATION PIPES AND FITTINGS NETWORK. THE LOCATION OF EX. WATER MAIN IS APPROXIMATE ONLY, CONTRACTOR TO DETERMINE EXACT LOCATION. SEE LANDSCAPING PLAN FOR DETAILS.
21. CONST. SLOPE SEEDING, VEGETATION, TREES OR SHRUBS. SEE LANDSCAPING PLAN FOR DETAILS.
22. CONST. SMART IRRIGATION CONTROLLER, SEE LANDSCAPING PLAN

## REMEDIAL MEASURES

BASED ON THE SITE CONDITIONS OBSERVED DURING SITE INVESTIGATION, REMEDIAL MEASURES ARE PROPOSED AS FOLLOWED:

1) REMOVAL OF THE EXISTING VEGETATION, LEAVES, AND OTHER SLOPE EROSION DEBRIS IN THE FAILURE AREA TO COMPETENT OLD ALLUVIAL FAN.

2) THE UN-PERMITTED GRADED AND DISTRESSED UPPER SLOPE MAY BE SHORED AND SUPPORTED BY CONSTRUCTION OF STACKED RETAINING WALLS AND BACKFILL WITH A SLOPE RATIO OF 1.5 (HORIZONTAL) : 1 (VERTICAL) WITH GEOGRID IN 2 FEET LIFTS TO MEET THE GRADE OF THE NATIVE SLOPE AS SHOWN IN SECTION A - A..

3) PLACE A NEW RETAINING WALL TO ACCOMMODATE TO LEVEL PAD AREA, AND PLACE A NEW LOW WALL ON THE MIDDLE SLOPE NEAR THE PROPERTY LINE CLOSE TO THE NEW YORK DRIVE TO RETAIN THE PROPOSED 2(H) : 1(V) FILL SLOPE.

4) THE LOWEST SLOPE ADJACENT TO THE NEW YORK DRIVE CONTAIN LESS FILLS FROM THE UNPERMITTED GRADING IS RECOMMENDED TO TRIM AND/RESTORED THE PREVIOUS GRADE, WHICH HAD APPROXIMATELY 2(H) : 1(V) SLOPE RATIO, AND MEETING THE REQUIREMENTS OF THE DEPARTMENT PUBLIC WORKS OF LOS ANGELES COUNTY.

5) THE PROPOSED RETAINING WALL MAY BE SUPPORTED BY CONVENTIONAL CONTINUOUS FOOTINGS EMBEDDED INTO COMPETENT NATIVE SOILS AND MEETING THE BUILDING CODE REQUIRED SLOPE/FOUNDATION SETBACK REQUIREMENTS.

6) IT IS ALSO RECOMMENDED THAT THE SLOPE SURFACE BE PROTECTED WITH DROUGHT-RESIST VEGETATION WITH IRRIGATION SYSTEM AFTER THE REMEDIAL GRADING IS COMPLETED.

7) PROVIDING POSITIVE DRAINAGE FOR THE PROPERTY AND CONCRETE SWALE DRAINAGE FOR THE SLOPES OF THE SUBJECT SITE. THE RUNOFF WATER THROUGH THE ROOF AREA SHOULD BE COLLECTED AND DRAINED TO THE STREET, NOT TO THE REAR YARD. DRAINAGE SWALE AT TOP OF THE RETAINING WALLS SHOULD BE CLEANED FREQUENTLY.

PLEASE NOTE: MTC'S INVESTIGATION AND EVALUATION ARE LIMITED TO THE AREA AFFECTED BY THE UNPERMITTED GRADING AND THE SLOPE DISTRESSES RESULTED FROM THE GRADING. OTHER SLOPE AREAS ARE APPEAR TO HAS NO SIGNIFICANT DISTRESS AND NO A PART OF THE SCOPE OF WORK OF THIS INVESTIGATION. HOWEVER, APPROPRIATE MEASURES FOR SLOPE INSTABILITY, SUCH AS MAINTAINING PROPER SURFICIAL DRAINAGE AND VEGETATION, SHOULD BE PERFORMED.

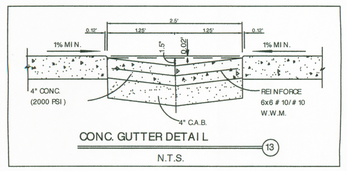
REGISTERED PROFESSIONAL ENGINEER — GUAN WANG — No. 79702 — EXP. 09-30-16 — CIVIL — STATE OF CALIFORNIA

## FILL COMPACTION NOTES:

FILL MATERIALS SHALL BE PLACED IN LAYERS WHICH WHEN COMPACTED SHALL NOT EXCEED 6 INCHES IN THICKNESS. EACH LAYER SHALL BE SPREAD EVENLY AND SHALL BE THOROUGHLY MIXED DURING THE SPREADING TO ENSURE UNIFORMITY OF MATERIAL AND MOISTURE OF EACH LAYER.
WHERE THE MOISTURE CONTENT OF THE FILL MATERIAL IS BELOW THE OPTIMUM VALUE DETERMINED BY THE SOILS ENGINEER, WATER SHALL BE UNIFORMLY ADDED TO OBTAIN THE APPROXIMATE OPTIMUM MOISTURE CONTENT.
WHERE THE MOISTURE CONTENT OF THE FILL MATERIALS IS HIGHER THAN THE OPTIMUM VALUE DETERMINED BY THE SOILS ENGINEER, THE FILL MATERIALS SHALL BE AERATED BY BLADING DISKING OR MIXING WITH DRY MATERIALS UNTIL THE OPTIMUM MOISTURE CONTENT IS OBTAINED.
AFTER EACH LAYER HAS BEEN PLACED, MIXED AND SPEAD EVENLY, IT SHALL BE THOROUGHLY COMPACTED TO NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557. COHESIONLESS SOIL HAVING LESS THAN 15 PERCENT FINER THAN 0.005 MILLIMETERS(SUCH AS BASE MATERIAL OR PEA GRAVEL) SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY.
COMPACTION SHALL BE BY SHEEPFOOT ROLLER, TRACT ROLLING OR OTHER TYPES OF ACCEPTABLE COMPATION EQUIPMENT OF SUCH DESIGN THAT THEY WILL BE ABLE TO COMPACT THE FILL MATERIAL TO THE SPECIFIED DENSITY. ROLLING SHALL BE ACCOMPLISHED WHILE THE FILL MATERIALS AT THE SPECIFIED MOISTURE CONTENT, TO ENSURE THAT THE DESIRED DENSITY HAS BEEN OBTAINED. THE FINAL SURFACE OF THE AREAS TO RECEIVE SLABS-ON-GRADE SHOULD BE ROLLED TO A DENSE SMOOTH SURFACE.

## SOILS INSPECTION NOTES:

1. IN-GRADING INSPECTIONS MUST BE MADE BY THE CONSULTING GEOLOGIST AND SOILS ENGINEER. MONTHLY IN-GRADING INSPECTION REPORTS MUST BE SUBMITTED DIRECTLY TO THE GEOLOGY AND SOILS SECTION BY THE CONSULTANTS.
2. ROUGH GRADING MUST BE APPROVED BY A FINAL ENGINEERING GEOLOGY AND SOILS ENGINEERING REPORT. AN AS-BUILT GEOLOGIC MAP MUST BE INCLUDED IN THE FINAL GEOLOGY REPORT. PROVIDE A FINAL REPORT STATEMENT THAT VERIFIES WORK WAS DONE IN ACCORDANCE WITH REPORT RECOMMENDATIONS AND CODE PROVISIONS (SECTION J105.12). THE FINAL REPORT(S) MUST BE SUBMITTED TO THE GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION FOR REVIEW AND APPROVAL.
3. FOUNDATION AND WALL EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE CONSULTING GEOLOGIST AND SOILS ENGINEER PRIOR TO THE PLACING OF THE STEEL OR CONCRETE.




CONC. GUTTER DETAIL (13)
N.T.S.

SCALE: 1"=20'


MTC ENGINEERING, INC.
GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
5924 Temple City Blvd.
City of Temple City CA 91780
TEL: (626)287-6416 FAX: (626)287-0560
JI HONG YUAN, PE, RCE 70800


SIGNATURE _____ DATE _____

LEGAL DESCRIPTION:
LOT 11 AND A PORTION OF LOT 10 OF TRACT NO. 27111, IN THE UNINCORPORATED TERRITORY OF COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 720 PAGE 64-65 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

BENCH MARK:

| | |
|---|---|
| DATUM | NAVD 88 |
| BM ID | Y 11816 |
| QUAD/YEAR | PASADENA/2005 |
| ELEVATION | 915.031 |
| DESCRIPTION | L&BM TAG IN N CB 5.2M (17FT) W/O BCR @NE COR NEW YORK DR AND EATON CYN DR |


TRITECH ENGINEERING ASSOCIATES
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REMEDIAL GRADING PLAN

| | | |
|---|---|---|
| SCALE: 1"=20' | PLAN | DRAWN BY: Y.C. |
| DATE: 12/17/15 | | REVISED: C.M. |

**2831 EATON CANYON DRIVE, PASADENA, CA 91107**

SHEET 3 OF 5 — JOB NO. 110714