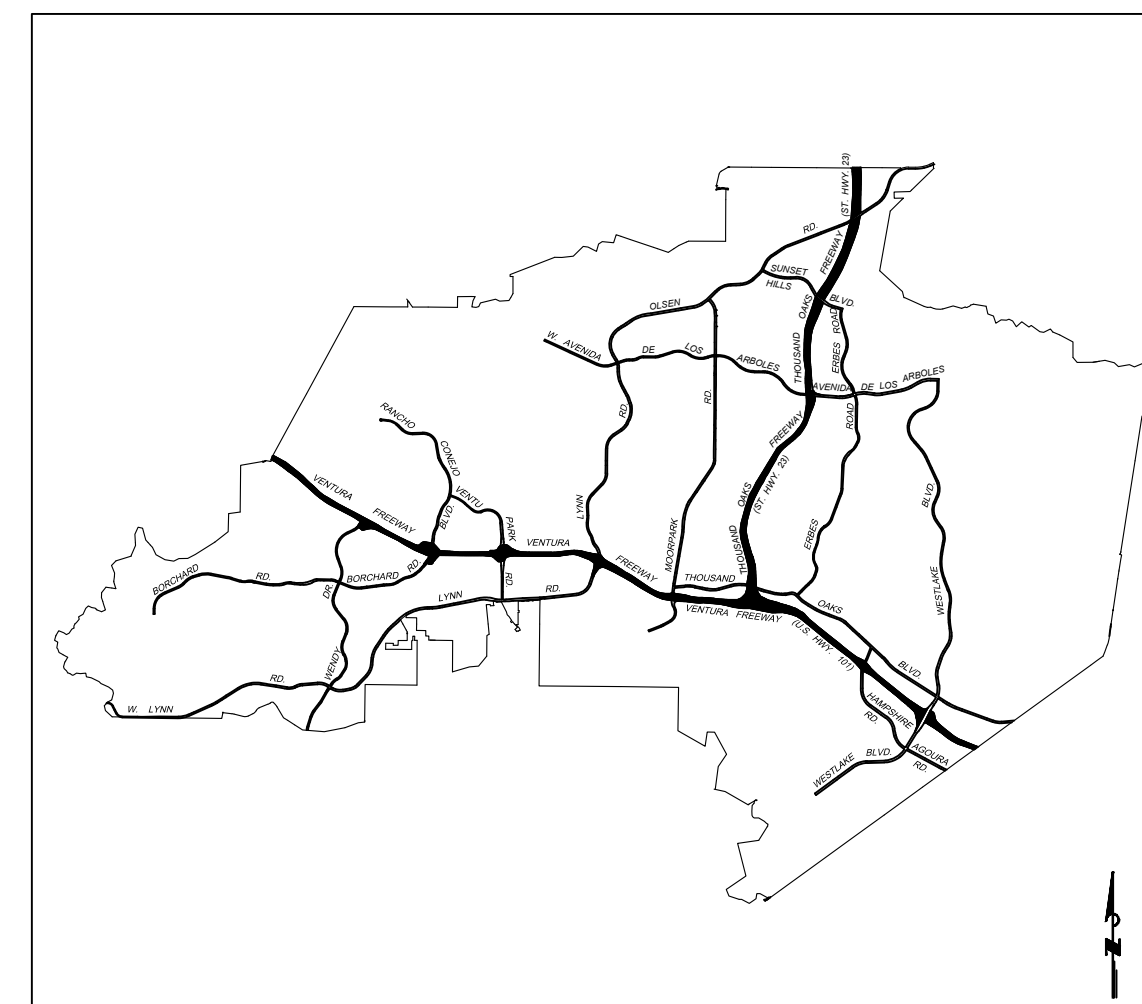


LOCATION MAP  
NTS



VICINITY MAP  
NTS

# CITY OF THOUSAND OAKS PUBLIC WORKS DEPARTMENT

## GRADING PLAN

### CONEJO VALLEY CHURCH OF CHRIST 2525 E. HILLCREST DRIVE

**PUBLIC UTILITY AUTHORIZATION FOR OPERATION**

**WATER:** CALIFORNIA AMERICAN WATER, 2439 WEST HILLCREST DR., NEWBURY PARK, CA. 91320 (805) 498-1266

**SEWAGE DISPOSAL:** CITY OF THOUSAND OAKS, 2100 THOUSAND OAKS BLVD. THOU. OAKS, CA 91362 MOHAMMAD FATEMI (805) 449-2100

**TELEPHONE:** VERIZON, 201 FLYNN ROAD, CAMARILLO, 93010 LEHR (805) 388-2260

**ELECTRIC:** SOUTH. CALIFORNIA EDISON COMPANY, 3589 FOOTHILL DR., THOU. OAKS, CA 91361 ALICIA PILLADO (805) 494-7076

**GAS:** SOUTH. CALIFORNIA GAS COMPANY, 977 CHAMBERS LN., SIMI VALLEY, CA 93065 HANK MORALES (805) 520-2061

**CABLE TV:** ADELPHIA, 2323 TELLER ROAD, NEWBURY PARK, CA 91320 (800) 427-3731

**DEVELOPER:**  
NAME: CONEJO VALLEY CHURCH OF CHRIST  
ADDRESS: 2525 E. HILLCREST DR., THOUSAND OAKS, CA 91362  
REPRESENTATIVE: STU WARFORD  
TELEPHONE: (805) 371-1381

**DEVELOPER'S ENGINEER:**  
NAME: RJR ENGINEERING GROUP, INC.  
ADDRESS: ROBERT W. ANDERSON, R.C.E. 58383  
3500 CAMINO AVE, SUITE 200, OXNARD, CA 93030  
REPRESENTATIVE: RICK HAJAS  
TELEPHONE: (805) 485-3935

**SOILS ENGINEER:**  
NAME: EARTH SYSTEMS  
ADDRESS: TODD J. TRANBY  
REPRESENTATIVE: 1731-A WALTER STREET  
TELEPHONE: TODD J. TRANBY  
DATES OF REPORTS: 8-20-18

**BENCHMARK:** VENTURA COUNTY BENCH: 4-54 RM-1X 1988 (VC P.I.D. 1383) AT THE SOUTHEAST CORNER OF THE INTERSECTION OF THOUSAND OAKS BOULEVARD AND PLEASANT WAY, 57.0 FEET SOUTHERLY FROM THE CENTER OF THOUSAND OAKS BOULEVARD, 22.5 FEET EASTERLY FROM THE CENTER OF PLEASANT WAY AND 6.0 FEET NORTHERLY FROM THE BEGINNING OF THE PLEASANT WAY CURB RETURN. ELEVATION: 860.15 FEET (NAVD 88 DATUM)

**INDEX OF SHEETS**

NO.	DESCRIPTION	CITY OF T.O. DWG. NO.
NO.	COVER SHEET	NO.
CE-1	PROJECT COVER SHEET	
CE-2	STANDARD GRADING NOTES	
CE-3	SURVEY	
CE-4	OVERALL GRADING PLAN	
CE-5	GRADING PLAN	
CE-6	GRADING PLAN	
CE-7	GRADING PLAN	
CE-8	GRADING PLAN	
CE-9	CROSS SECTIONS	
CE-10	DETAILS	
CE-11	DETAILS	
CE-12	DETAILS	
CE-13	DETAILS	
CE-14	DETAILS	
SW-1	SWPPP COVER	
SW-2	SWPPP NOTES	
SW-3	SWPPP DETAILS	
SW-4	SWPP PLAN	

**PERMIT NUMBERS :**

- ENTITLEMENT PERMIT NO. \_\_\_\_\_
- GRADING PERMIT NO. \_\_\_\_\_
- ENCROACHMENT PERMIT NO. \_\_\_\_\_
- ON-SITE PAVING PERMIT NO. \_\_\_\_\_
- VENTURA COUNTY WATERSHED PROTECTION DISTRICT (V.C.W.P.D.) ENCROACHMENT PERMIT NO. \_\_\_\_\_
- CALTRANS ENCROACHMENT PERMIT NO. \_\_\_\_\_
- OAK/LANDMARK TREE PERMIT NO. \_\_\_\_\_

**CERTIFICATE OF "RECORD DRAWINGS"**

I, \_\_\_\_\_, HEREBY CERTIFY, BASED ON MY FIELD OBSERVATION OR INFORMATION PROVIDED BY THE OWNER AND GENERAL CONTRACTORS THAT THE WORK ON SHEET NO'S \_\_\_\_\_ THROUGH \_\_\_\_\_ MARKED AS "RECORD DRAWING" HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THESE PLANS, SPECIFICATIONS, REVISIONS, CHANGE ORDERS, AND FIELD CHANGES.

REGISTERED CIVIL ENGINEER (SIGNATURE) \_\_\_\_\_ DATE 1/10/19  
 C-58383 RCE NUMBER 12-31-20 EXP. DATE

REVIEWED BY:  
VENTURA COUNTY FIRE DEPARTMENT  
DATE \_\_\_\_\_

REVIEWED FOR PERMIT ISSUANCE BY:  
CITY OF THOUSAND OAKS

DEVELOPMENT ENGINEER DATE \_\_\_\_\_  
 PLANNING DIVISION DATE \_\_\_\_\_  
 <TRAFFIC ENGINEER> DATE \_\_\_\_\_  
 <BLDG. DIVISION - ADA COMPLIANCE> DATE \_\_\_\_\_  
 <COSCA> DATE \_\_\_\_\_

**NOTE:** NOTIFY PUBLIC WORKS INSPECTOR A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

**NOTE:** CONTRACTOR SHALL TELEPHONE UNDERGROUND SERVICE ALERT (USA) 8 1 1 OR 1(800) 422-4133 A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

REVIEWED IN ACCORDANCE WITH CITY'S POLICY CONDITIONS OF APPROVAL BY:		THIS PLAN HAS BEEN REVIEWED BY _____ AND APPEARS TO BE IN GENERAL CONFORMITY WITH THE GEOTECHNICAL RECOMMENDATIONS IN OUR REPORT(S) DATED _____ MAKES NO REPRESENTATION AS TO THE ACCURACY OF DIMENSIONS, MEASUREMENTS, CALCULATIONS OR ANY PORTION OF THE DESIGN OTHER THAN GEOTECHNICAL.	
SIGNATURE	DATE	REGISTERED GEOLOGIST NO.	DATE
_____	_____	_____	_____
R.C.E. NO.	EXP. DATE	SOILS ENGINEER NO.	DATE

DESIGNED BY: RHH 1/10/19 DATE

DRAWN BY: RHH 1/10/19 DATE

CHECKED BY: RWA 1/10/19 DATE

REGISTERED ENGINEER (SIGNATURE) \_\_\_\_\_ DATE \_\_\_\_\_  
 C-58383 RCE NUMBER



**RJR ENGINEERING GROUP**  
 Planning - Civil Engineering - Flood Control - Hydrology  
 Geotechnical Engineering - Stormwater - Water Quality  
 2340 Palma Dr, Suite 200, Ventura, CA 93003  
 (805) 485-3935 (805) 485-6496 FAX  
 E-mail: rjr@rjreng.com

**811**  
 Know what's below.  
 Call before you dig.  
 DIAL TOLL FREE 8 1 1  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE

**CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT**

**COVER SHEET**

CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE

CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET CE-1 OF CE-14

PLANNING SET (NOT FOR CONSTRUCTION) 1-10-19

COVER SHEET

**GENERAL GRADING NOTES**

- ALL IMPOSED CONDITIONS FOR THE APPLICABLE ENTITLEMENT PERMIT SHALL APPLY.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF THOUSAND OAKS GRADING ORDINANCE, TITLE 7, CHAPTER 3, REGULATING THE EXCAVATION, GRADING AND FILLING OF LAND AND ANY AMENDMENTS THERETO EXCEPT AS WAIVED OR MODIFIED AS SET FORTH IN THE CONDITIONS OF APPROVAL.
- ESTIMATED EARTHWORK QUANTITIES:  
CUT: \_\_\_\_\_ C.Y. EXPORT: \_\_\_\_\_ C.Y.  
FILL: \_\_\_\_\_ C.Y. IMPORT: \_\_\_\_\_ C.Y.  
REMOVAL AND RECOMPACTION: \_\_\_\_\_ C.Y.
- ALL GEOLOGIC AND SOIL RECOMMENDATIONS IMPOSED BY THE SOILS ENGINEER OR CONTAINED IN THE SOILS AND GEOLOGIC REPORT ARE TO BE COMPLIED WITH AND ARE HEREBY MADE AN INTEGRAL PART OF THE GRADING PLANS AND PERMIT.  
  
GEOLOGIC AND SOILS REPORT DATED: \_\_\_\_\_  
REPORT NUMBERS: \_\_\_\_\_  
BY: \_\_\_\_\_
- NO CUT OR FILL SLOPES MAY BE STEEPER THAN 2:1 (H:V) MAXIMUM.
- IN THE EVENT ADVERSE BEDDING PLANES ARE DISCOVERED DURING CONSTRUCTION REQUIRING SLOPE STABILIZATION TECHNIQUES, SUCH WORK SHALL BE APPROVED BY THE CITY ENGINEER UNDER A REVISED GRADING PLAN AND CHANGE ORDER.
- ROUGH GRADED PAD DRAINAGE SHALL BE 2% MINIMUM. FINE GRADING AROUND STRUCTURES SHALL DRAIN AWAY FROM FOOTINGS, TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR, TO SWALES WITH 1% MINIMUM SLOPE TO APPROVED DRAINAGE POINTS.
- ANY AREA TO RECEIVE FILL SHALL BE PREPARED BY SCARIFYING TO A MINIMUM DEPTH OF 6", MOISTENED OR DRIED TO NEAR OPTIMUM MOISTURE AND COMPACTED TO A RELATIVE DENSITY OF 90% BEFORE PLACING ADDITIONAL FILL. PRIOR TO PLACING OF ANY FILL MATERIAL, THE AREA SHALL BE APPROVED BY THE PUBLIC WORKS INSPECTOR. SHOULD ADVERSE SOIL CONDITIONS BE ENCOUNTERED, STABILIZATION TECHNIQUES SHALL BE APPROVED BY A CHANGE ORDER.  
  
THE OUTER 12 INCHES OF ALL FILL SLOPE SURFACES SHALL BE TAMPED AND GRID ROLLED TO THE SATISFACTION OF THE SOILS ENGINEER AND THE PUBLIC WORKS INSPECTOR, UNLESS OTHERWISE SPECIFIED.
- THE DISPOSITION OF ANY EXISTING WELL SHALL BE IN ACCORDANCE WITH THE CITY OF THOUSAND OAKS MUNICIPAL CODE SECTION 6-4.04 TO THE SATISFACTION OF THE CITY ENGINEER AND THE VENTURA COUNTY HEALTH DEPARTMENT.
- WITHIN SIX (6) MONTHS AFTER COMMENCEMENT OF GRADING, THE DEVELOPER SHALL PLANT ALL MANUFACTURED SLOPES 3 FEET AND HIGHER WITH SUITABLE GROUND COVER, SHRUBS AND TREES, AND INSTALL A PERMANENT IRRIGATION SYSTEM TO EFFECTIVELY AID IN EROSION CONTROL, ALL TO THE SATISFACTION OF THE CITY ENGINEER. A LANDSCAPING AND IRRIGATION PLAN SHALL BE SUBMITTED TO THE COMMUNITY DEVELOPMENT DEPARTMENT FOR APPROVAL PRIOR TO MAKING SUCH INSTALLATIONS.
- ANY CHANGES IN THE WORK SHOWN HEREON SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
- THE DEVELOPER'S LANDSCAPE ARCHITECT SHALL SUBMIT WRITTEN CERTIFICATION AFTER SATISFACTORY COMPLETION OF LANDSCAPING AND IRRIGATION REQUIREMENTS TO THE PUBLIC WORKS AND THE COMMUNITY DEVELOPMENT DEPARTMENTS. FIELD MEASUREMENTS MAY BE REQUIRED TO ASCERTAIN THE PRECISE HEIGHTS OF CUT AND FILL SLOPES AND/OR SLOPE SURFACE AREA.
- NO STOCKPILING AND/OR IMPORT/EXPORT HAULING SHALL BE PERMITTED UNLESS APPROVED ON THE GRADING PERMIT.
- THE PERMITTEE SHALL EMPLOY A REGISTERED CIVIL ENGINEER TO PROVIDE CONSTANT ON-SITE GRADING SUPERVISION TO ASSURE COMPLIANCE WITH THE APPROVED PLANS AND A SOILS ENGINEER TO PROVIDE CONSTANT SOILS INSPECTION IN ACCORDANCE WITH SECTION 7-3.17 (C & D) OF THE THOUSAND OAKS MUNICIPAL CODE. THE PERMITTEE SHALL SUBMIT RECOMMENDATIONS TO THE CITY ENGINEER WHO SHALL APPROVE THE SELECTION OF THE CIVIL ENGINEER AND SOILS ENGINEER. WEEKLY PROGRESS REPORTS SUBMITTED TO THE CITY ENGINEER BY THE CIVIL ENGINEER MAY BE REQUIRED.
- UPON RECOMMENDATIONS MADE BY THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER PRIOR TO THE GRADING OF ANY PROJECT, ROCK WITH DIMENSION FROM EIGHT (8") INCHES TO THIRTY SIX (36") INCHES MAY BE PLACED IN DESIGNATED ROCK DISPOSAL SITES. SUCH OVERSIZED ROCK SHALL NOT BE IN THE UPPER TEN (10") FEET OF COMPACTED FILL OR NEARER THAN (20") FEET TO THE SURFACE OF ANY FILL SLOPE. SUCH ROCK DISPOSAL SITES SHALL BE SHOWN ON THE "RECORD DRAWINGS" AND CERTIFIED TO BE COMPACTED BY THE SOILS ENGINEER.
- ALL RETAINING WALLS SHALL BE CONSTRUCTED UNDER A SEPARATE PERMIT, TO BE OBTAINED PRIOR TO THE ISSUANCE OF THE GRADING PERMIT.
- OAK TREE NOTES:
  - ALL OAK TREES WITHIN THE PROJECT BOUNDARIES AND WITHIN 100 FEET OF THE PROJECT BOUNDARIES SHALL BE FENCED AT THE PROTECTED ZONE (5 FEET OUTSIDE THE DRIPLINE) UNTIL PRESERVATION MEASURES, SUBMITTED BY THE SUBDIVIDER, ARE APPROVED BY THE CITY ENGINEER AND COMMUNITY DEVELOPMENT DEPARTMENT. SAID FENCING SHALL CONSIST OF AT LEAST A 5 FOOT HIGH CHAIN LINK MATERIAL FASTENED TO STEEL STAKES 8 FEET ON CENTER.
  - ALL OAK TREE WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF THOUSAND OAKS OAK TREE ORDINANCE 937-NS AND OAK TREE PRESERVATION AND PROTECTION GUIDELINES RESOLUTION NO. 2010-14.
  - UNDER NO CONDITION SHALL ANY WORK BE DONE WITHIN THE PROTECTED ZONES OF ANY OAK TREE, WITHOUT OBTAINING AN OAK TREE ENCROACHMENT PERMIT AND GIVING 48 HOURS ADVANCE NOTICE TO THE CITY. NO PROTECTIVE FENCING SHALL BE RELOCATED OR MOVED WITHOUT CITY APPROVAL.

- ACCESSIBILITY  
TO THE EXTENT THE PROVISIONS APPLY, THE DEVELOPER SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24, BUILDING STANDARDS OF THE CALIFORNIA ADMINISTRATIVE CODE IN REGARDS TO PROVIDING ACCESS TO THE PHYSICALLY DISABLED.
- EROSION CONTROL MEASURES
  - STOCK PILE SANDBAGS IN PARKWAY AREAS FOR RAPID PLACEMENT IN THE EVENT OF A STORM.
  - EXCEPT AS OTHERWISE DIRECTED BY THE PUBLIC WORKS INSPECTOR, ALL DRAINAGE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FORECAST OF RAIN PROBABILITY IS 40% AND MAINTAINED DURING THE RAINY SEASON (NOVEMBER 1ST TO APRIL 15).
  - APPROVED EROSION CONTROL DEVICES MUST BE IN PLACE DURING THE ABOVE STATED PERIOD.
  - CLEAN OUT MUD AND SILT AFTER EACH RAIN OR AS DIRECTED BY THE PUBLIC WORKS INSPECTOR.
- SPECIAL NOTES FOR STORMWATER POLLUTION PREVENTION
  - A STORMWATER POLLUTION CONTROL PLAN (SWPCP) IS REQUIRED FOR ALL PROJECTS FOR WHICH THE DISTURBED AREA IS GREATER THAN 1 ACRE. SWPCP FORMS ARE AVAILABLE AT THE PUBLIC WORKS DEPARTMENT. A COPY OF THE SWPCP SHALL BE ON FILE WITH THE CITY PRIOR TO ISSUANCE OF A GRADING PERMIT, AND A COPY SHALL BE MAINTAINED AT THE JOB SITE AT ALL TIMES.
  - CONSTRUCTION ACTIVITY INCLUDING CLEARING, GRADING, DISTURBANCES TO SOIL SUCH AS STOCKPILING, OR EXCAVATION THAT RESULTS IN DISTURBANCES OF AT LEAST ONE ACRE OF TOTAL LAND AREA ARE REQUIRED BY THE STATE TO APPLY FOR AN NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. DEVELOPER SHALL FILE A NOTICE OF INTENT (NOI) WITH THE APPROPRIATE FEE TO THE STATE WATER RESOURCES CONTROL BOARD AT THE FOLLOWING ADDRESS:  
  
STATE WATER RESOURCES CONTROL BOARD  
DIVISION OF WATER QUALITY  
STORM WATER PERMIT UNIT  
P.O. BOX 1977, SACRAMENTO, CALIFORNIA 95812 - 1977  
  
PROOF OF FILING THE NOI SHALL BE ON FILE WITH THE CITY PRIOR TO ISSUANCE OF A GRADING PERMIT. A COPY OF THE SWPCP SHALL BE MAINTAINED AT THE JOBSITE AT ALL TIMES.  
  
TOTAL LAND AREA TO BE DISTURBED IS: \_\_\_\_\_ ACRES.  
(INCLUDING CLEARING, GRADING, STOCKPILING, AND/OR EXCAVATION)
- SPECIAL NOTE FOR ON-SITE PAVING PLANS  
THIS PLAN MAY HAVE BEEN REVIEWED ONLY AS A FINE GRADING, DRAINAGE AND PAVING PLAN FOR THE PURPOSE OF DOING FINE GRADING AND CONSTRUCTION OF PARKING LOT(S) WITH THE APPROPRIATE DRAINAGE DEVICES. THE REVIEW DOES NOT SUPERSEDE ANY COMMUNITY DEVELOPMENT DEPARTMENT CONDITIONS AND ALL ITEMS RELATING TO THE PLOT PLAN MUST BE FULFILLED. IT IS THE OWNER/DEVELOPER OR HIS REPRESENTATIVE'S RESPONSIBILITY TO ASCERTAIN THAT EVERYTHING SHOWN HEREON AGREES WITH THE PLOT PLAN (I.E. CONCRETE CURBS, PLANTER AREAS, LIGHTING, ETC.)
- AN ON-SITE PAVING PERMIT SHALL BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS, AND FEES PAID PRIOR TO PAVING PARKING AND DRIVEWAY AREAS.
- MAXIMUM PAVEMENT SLOPES ARE AS FOLLOWS:  
PARKING AREAS: 2% MAXIMUM HANDICAP PARKING  
2 1/2% MAXIMUM (OTHER PARKING)  
DRIVEWAY AREAS: 7% MAXIMUM FOR COMMERCIAL USES  
15% MAXIMUM FOR RESIDENTIAL USES
- SEISMIC HAZARDS MAPPING ACT  
PRIOR TO APPROVAL OF THE GRADING PLANS AND THE ISSUANCE OF A GRADING PERMIT, THE DEVELOPER'S CIVIL ENGINEER OR ENGINEERING GEOLOGIST SHALL DETERMINE IF THE PROPOSED DEVELOPMENT IS LOCATED WITHIN A LIQUEFACTION OR LANDSLIDE AREA AS IDENTIFIED ON THE SEISMIC HAZARDS MAP PREPARED BY THE STATE OF CALIFORNIA. IF THE DEVELOPMENT IS WITHIN SUCH AN AREA, THE DEVELOPER'S CIVIL ENGINEER OR ENGINEERING GEOLOGIST SHALL PREPARE A REPORT WHICH EVALUATES THE POTENTIAL GEOLOGICAL HAZARD WITH RECOMMENDATIONS FOR SUITABLE MITIGATION MEASURES, PURSUANT TO THE SEISMIC HAZARDS MAPPING ACT. THE DEVELOPER SHALL SUBMIT THE REPORT TO THE STATE DEPARTMENT OF CONSERVATION, DIVISION OF MINES AND GEOLOGY, AT THE FOLLOWING ADDRESS, CONCURRENT WITH SUBMITTAL TO THE CITY:  
  
SEISMIC HAZARDS MAPPING  
801 K STREET MS 12 - 78  
SACRAMENTO, CA 95814 - 3531  
  
THE DEVELOPER SHALL PROVIDE A RETURN RECEIPT OR OTHER PROOF OF SUCH SUBMITTAL TO THE CITY ENGINEER, ALONG WITH A COPY OF THE REPORT, PRIOR TO THE ISSUANCE OF THE GRADING PERMIT.

**ABBREVIATIONS**

A.B.	AGGREGATE BASE	MAX.	MAXIMUM
A.C.	ASPHALTIC CONCRETE	M.C.	MIDDLE CURVE
A.S.	AGGREGATE SUBBASE	M.H.	MANHOLE
B.C.	BEGINNING OF CURVE	MISC.	MISCELLANEOUS
B.C.R.	BEGINNING OF CURVE RETURN	MON.	MONUMENT
B.M.	BENCH MARK	NAT. GRD.	NATURAL GROUND
C.A.B.	CRUSHED AGGREGATE BASE	O.G.	ORIGINAL GROUND
C.B.	CATCH BASIN	PAR.	PARALLEL
C.M.B.	CRUSHED MISCELLANEOUS BASE	P.C.C.	POINT OF COMPOUND CURVE
C.R.	CURB RETURN	P.C.C.	PORTLAND CEMENT CONCRETE
C.R.B.	CURB RADIUS	P.I.	POINT OF INTERSECTION
C/L	CENTERLINE	P.L.	PROPERTY LINE
CONC.	CONCRETE	P.O.C.	POINT ON CURVE
C.R.	CURB RETURN	P.R.C.	POINT OF REVERSE CURVE
E.C.	END OF CURB	P.M.C.	PROCESSED MISCELLANEOUS BASE
E.C.R.	END OF CURB RETURN	PROP.	PROPOSED
E.P.	EDGE OF PAVEMENT	PVMT.	PAVEMENT
F.G.	FINISHED GRADE	R.	RADIUS
F.H.	FIRE HYDRANT	R.C.B.	REINFORCED CONCRETE BOX
F/L	FLOW LINE	R.C.P.	REINFORCED CONCRETE PIPE
F.S.	FINISHED SURFACE	R/W	RIGHT OF WAY
G.L.	GROUND LINE	T	TANGENT
GUT.	GUTTER	T.C.	TOP OF CURB
H.G.L.	HYDRAULIC GRADE LINE	TOPO.	TOPOGRAPHY
HW, HW	HEADWALL	TR	TRACT
INTER, +	INTERSECTION	T.S.	TRAFFIC SIGNAL
J.	JUNCTION STRUCTURE	V.C.	VERTICAL CURVE
L	LENGTH OF ARC		
X-SEC	CROSS SECTIONS		

**SPECIAL SYMBOL**

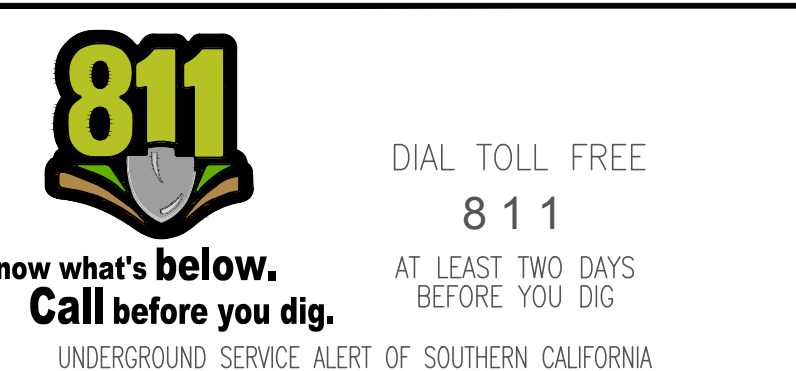
- 5,800 LUMEN HIGH PRESSURE SODIUM VAPOR STREET LIGHT ON 25' MARBELITE ELECTROLIER
- ▲ 9,500 LUMEN HIGH PRESSURE SODIUM VAPOR STREET LIGHT ON 31' MARBELITE ELECTROLIER
- 16,000 LUMEN HIGH PRESSURE SODIUM VAPOR STREET LIGHT ON 31' MARBELITE ELECTROLIER
- ★ 22,000 LUMEN HIGH PRESSURE SODIUM VAPOR STREET LIGHT ON 32' MARBELITE ELECTROLIER

NOTE: ALL STREET LIGHTS TO HAVE FLAT LENS

**NOTE:** NOTIFY PUBLIC WORKS INSPECTOR A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

**NOTE:** CONTRACTOR SHALL TELEPHONE UNDERGROUND SERVICE ALERT (USA) 8 1 1 OR 1(800) 422-4133 A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

REVIEWED IN ACCORDANCE WITH CITY'S POLICY CONDITIONS OF APPROVAL BY:  SIGNATURE _____ DATE _____	THIS PLAN HAS BEEN REVIEWED BY _____ AND APPEARS TO BE IN GENERAL CONFORMITY WITH THE GEOTECHNICAL RECOMMENDATIONS IN OUR REPORT(S) DATED _____ MAKES NO REPRESENTATION AS TO THE ACCURACY OF DIMENSIONS, MEASUREMENTS, CALCULATIONS OR ANY PORTION OF THE DESIGN OTHER THAN GEOTECHNICAL.
R.C.E. NO. _____ EXP. DATE _____	REGISTERED GEOLOGIST NO. _____ DATE _____ SOILS ENGINEER NO. _____ DATE _____



811  
DIAL TOLL FREE  
AT LEAST TWO DAYS BEFORE YOU DIG

REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE

DESIGNED BY:  
RHH 1/10/19  
DATE

DRAWN BY:  
RHH 1/10/19  
DATE

CHECKED BY:  
RWA 1/10/19  
DATE

ENGINEER'S SEAL

PREPARED BY:  
**RJR ENGINEERING GROUP**  
Planning - Civil Engineering - Flood Control/Hydrology  
Geotechnical Engineering - Stormwater - Water Quality  
2340 Palma Dr., Suite 200, Ventura, CA 93003  
(805) 485-3935 (805) 485-6496 FAX  
E-mail: rjr@rjreng.com

REGISTERED ENGINEER  
C-58383  
RCE NUMBER

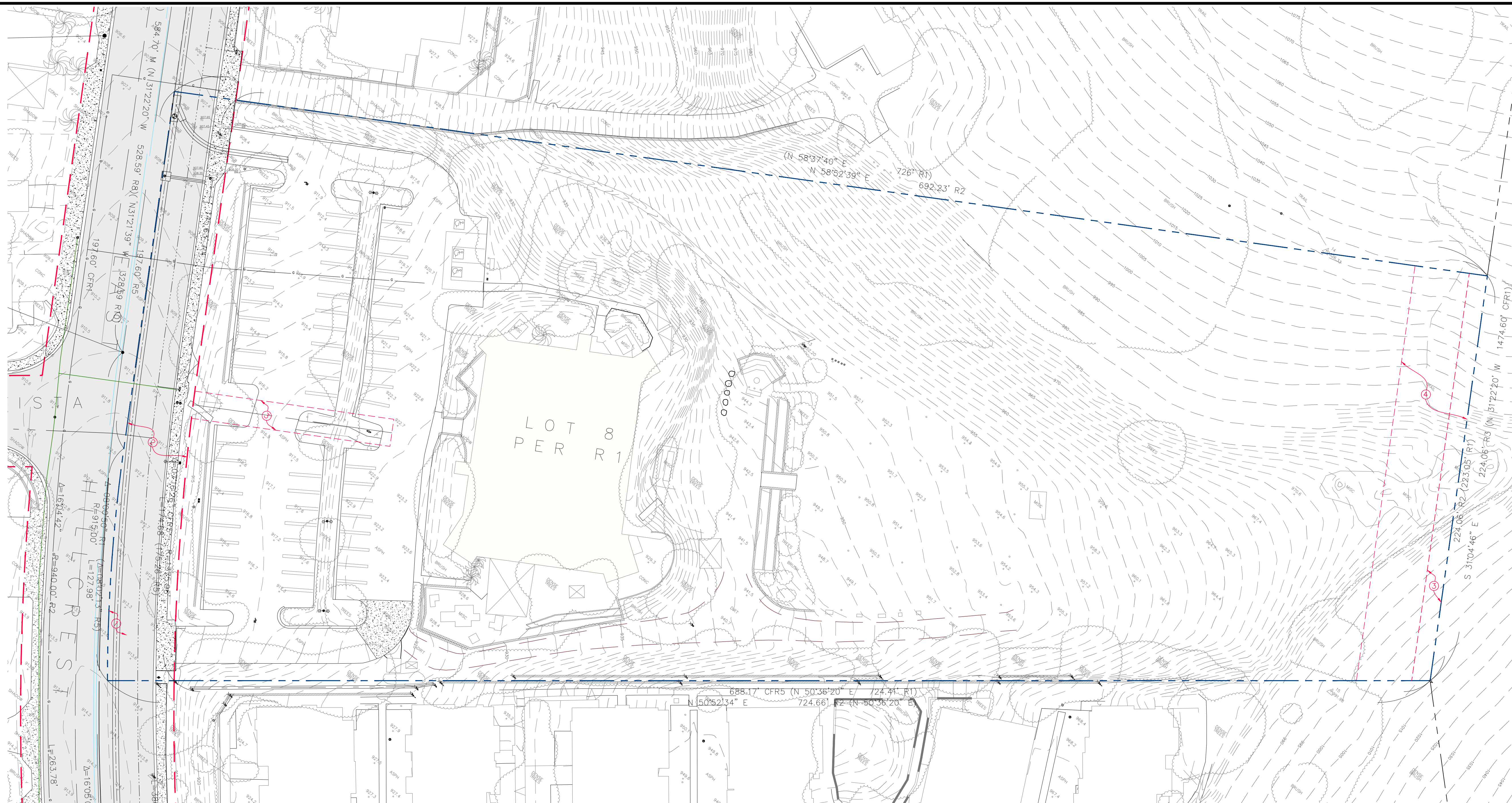
REVIEWED FOR PERMIT ISSUANCE BY: CITY OF THOUSAND OAKS	DEVELOPMENT ENGINEER _____ DATE _____
PLANNING DIVISION	DATE _____
<TRAFFIC ENGINEER>	DATE _____
<BLDG. DIVISION - ADA COMPLIANCE>	DATE _____
<COSCA>	DATE _____

**CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT**

**GRADING NOTES AND DETAILS**

CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE

CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET 02 OF 02-14



**EASEMENTS**

- ① 10' WIDE EASEMENT FOR THE RIGHT TO ENTER UPON, ERECT, CONSTRUCT, MAINTAIN AND OPERATE TELEPHONE, TELEGRAPH AND ELECTRIC LIGHTS AND POWER POLES, WIRES, CABLE, LINES AND CONDUITS, SEWER PIPES, GAS AND WATER MAINS PER R3.
- ② VARIABLE EASEMENT AND RIGHT OF WAY IN, ON, OVER, UNDER, AND ACROSS, FOR ALL OF THE PURPOSES OF CONSTRUCTION, MAINTENANCE, REPAIR, REMOVAL, RECONSTRUCTION, AND OPERATIONS OF SANITARY SEWERS, STORM DRAINS, WATER LINES, PUBLIC UTILITIES, AND A PUBLIC ROAD PER R5.
- ③ A 15 FEET WIDE X 110 FEET LONG EASEMENT AND RIGHT OF WAY IN, ON, OVER, UNDER, AND ACROSS, FOR ALL OF THE PURPOSES OF CONSTRUCTION, MAINTENANCE, REPAIR, REMOVAL, RECONSTRUCTION, AND OPERATIONS OF WATER LINES AND OTHER APPURTENANT FACILITIES PER R6 & R7.
- ④ 10' WIDE EASEMENT FOR THE RIGHT TO ENTER UPON, ERECT, CONSTRUCT, MAINTAIN AND OPERATE TELEPHONE, TELEGRAPH AND ELECTRIC LIGHTS AND POWER POLES, WIRES, CABLE, LINES AND CONDUITS, SEWER PIPES, GAS AND WATER MAINS PER R4.
- ⑤ 40' EASEMENT OFFSET PER R4

**LEGAL DESCRIPTION:**

LOT 8, BLOCK 11 OF THOUSAND OAKS TRACT IN THE CITY OF THOUSAND OAKS, COUNTY OF VENTURA, STATE OF CALIFORNIA AS PER MAP RECORDED IN BOOK 8, PAGE 73 OF MISCELLANEOUS RECORDS (MAPS), IN THE OFFICE OF COUNTY RECORDER OF SAID COUNTY

**BENCH MARK:**

VENTURA COUNTY BENCH: 4-54 RM-1X 1988 (VC P.I.D. 1383) AT THE SOUTHEAST CORNER OF THE INTERSECTION OF THOUSAND OAKS BOULEVARD AND PLEASANT WAY, 57.0 FEET SOUTHERLY FROM THE CENTER OF THOUSAND OAKS BOULEVARD, 22.5 FEET EASTERLY FROM THE CENTER OF PLEASANT WAY AND 6.0 FEET NORTHERLY FROM THE BEGINNING OF THE PLEASANT WAY CURB RETURN. ELEVATION: 860.15 FEET (NAVD 88 DATUM)

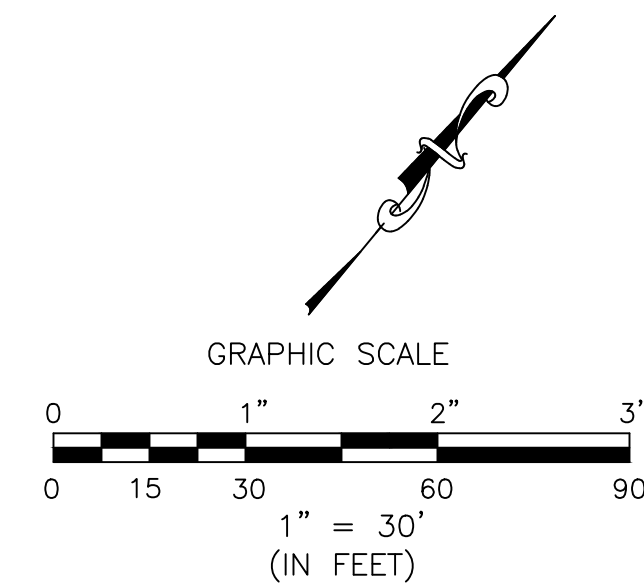
**BASIS OF BEARINGS:**

THE BEARING OF N 31°04'46" W ALONG THE CENTERLINE OF EAST HILLCREST BLVD. PER RECORD OF SURVEY RECORDED IN BOOK 45, PAGE 29, WAS USED AS THE BASIS OF BEARINGS FOR THIS SITE PLAN.

**TEMPORARY BENCH MARK:**

TOP SSMH AT STA. 3+56 (MH-1) PER CITY OF THOUSAND OAKS WASTEWOR PLAN 10272; ELEVATION = 907.30 FEET.

SURVEY PREPARED BY:  
FRED W. HAMMAR, RCE 13765  
NOVEMBER, 2014



REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE

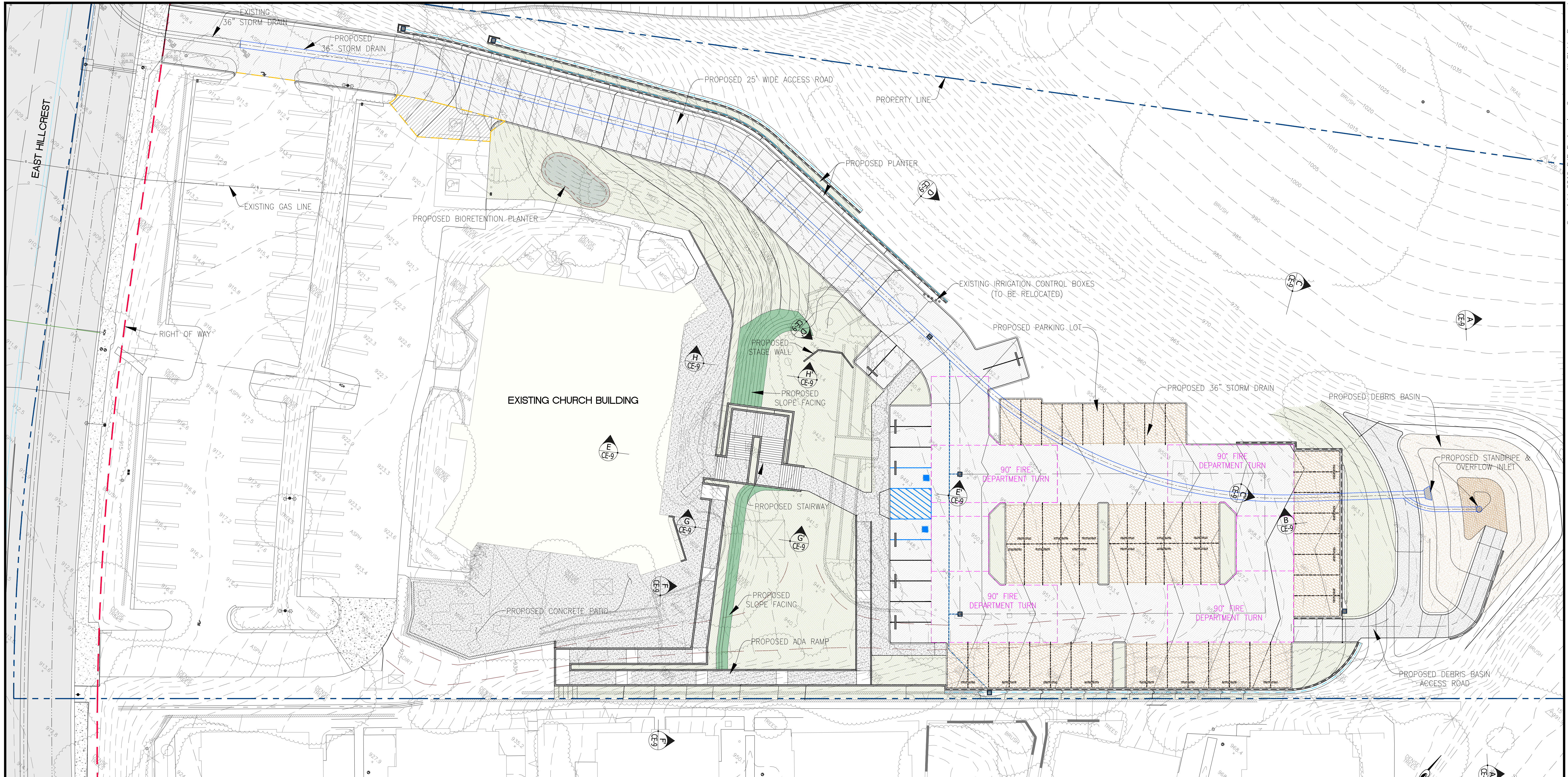
DESIGNED BY:	
DATE	
DRAWN BY:	
DATE	
CHECKED BY:	
DATE	

ENGINEER'S SEAL	
-----------------	--

PREPARED BY:	FRED W. HAMMAR	13765
REGISTERED ENGINEER		RCE NUMBER

REVIEWED BY:	VENTURA COUNTY FIRE DEPARTMENT
DATE	
REVIEWED FOR PERMIT ISSUANCE BY:	CITY OF THOUSAND OAKS
DEVELOPMENT ENGINEER	DATE
PLANNING DIVISION	DATE
<TRAFFIC ENGINEER>	DATE
<BLDG. DIVISION - ADA COMPLIANCE>	DATE
<COSCA>	DATE

CITY OF THOUSAND OAKS PUBLIC WORKS DEPARTMENT
EXISTING SURVEY
CONEJO VALLEY CHURCH OF CHRIST 2525 E. HILLCREST DRIVE
CITY OF THOUSAND OAKS DWG. NO. _____ SHEET CE-3 OF CE-14



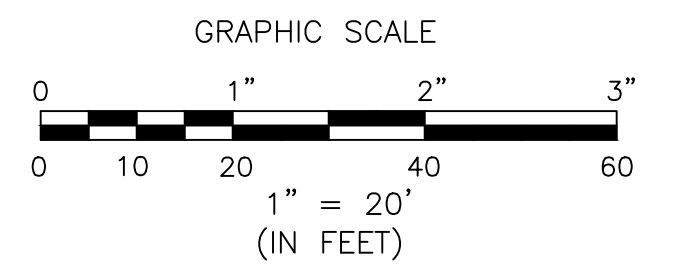
**HATCH LEGEND**

[Hatched Box]	EXISTING BUILDING
[Hatched Box]	PROPOSED CONCRETE - FINISH PER ARCHITECTURAL PLANS
[Hatched Box]	PROPOSED PERMEABLE PAVERS - FINISH PER ARCHITECTURAL PLANS
[Hatched Box]	PROPOSED PAVEMENT
[Hatched Box]	PROPOSED LANDSCAPE/GRASS-PER LANDSCAPE ARCHITECTURAL PLANS
[Hatched Box]	PROPOSED BIO-RETENTION PLANTER
[Hatched Box]	PROPOSED CONCRETE DETENTION BASIN LINING
[Hatched Box]	PROPOSED RETAINING WALL
[Hatched Box]	PROPOSED LANDSCAPE WALL
[Hatched Box]	EXISTING WOOD FENCE TO REMAIN
[Hatched Box]	PROPOSED PVC PIPE

**GRADING PLAN NOTES**

ELV. X	EXISTING SPOT ELEVATION
18.25 FG	PROPOSED FINISHED GRADE
18.25 FS	PROPOSED FINISHED SURFACE
18.25 TW 17.25 FG H=1	PROPOSED RETAINING WALL INFO

- GRADING PLAN NOTES**
1. THE CONTRACTOR SHALL VERIFY ALL EXISTING TOPOGRAPHY AND GRADES PRIOR TO GRADING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT CIVIL ENGINEER OF ANY DISCREPANCIES OR REQUIRED DESIGN CHANGES SO THE APPROPRIATE MODIFICATIONS CAN BE MADE.
  2. THE CONTRACTOR SHALL ENSURE THAT ALL EASEMENTS ARE ADEQUATELY LOCATED AND STAKED PRIOR TO ANY GRADING.
  3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERGROUND UTILITIES. UNDERGROUND ALERT SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO DIGGING.
  4. THE APPROVED GEOLOGY AND GEOTECHNICAL REPORTS SHALL BE CONSIDERED A PART OF THESE PLANS. COPIES OF THESE REPORTS SHOULD BE MAINTAINED ON SITE DURING SITE DEVELOPMENT.
  5. THE PROJECT CIVIL ENGINEER SHALL BE NOTIFIED AND APPROVE ANY DESIGN CHANGES PRIOR TO IMPLEMENTATION DURING SITE DEVELOPMENT.
  6. ALL REQUIREMENTS AND SPECIFICATIONS OF THE GEOLOGY AND GEOTECHNICAL REPORTS ARE CONSIDERED A PART OF THESE PLANS.
  7. CHEMICAL TESTING OF ON-SITE SOILS PER UBC REQUIREMENTS WILL BE PERFORMED AT ROUGH GRADE CERTIFICATE.
  8. ALL BUILDING DIMENSIONS, ELEVATIONS, AND LOCATIONS PER ARCHITECTURE PLANS.
  9. ALL UTILITY TRENCH BACKFILL SHALL HAVE SAND BEDDING (SE>20). BACKFILL AND COMPACT TO 95% RELATIVE COMPACTION.
  10. THE CONTRACTOR SHALL COMPLY WITH THE PROJECT SWPPP AND MAINTAIN ALL SPECIFIED BMP'S AS WELL AS GOOD HOUSEKEEPING MEASURES.



REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE

DESIGNED BY:  
RHH 1/10/19  
DATE

DRAWN BY:  
RHH 1/10/19  
DATE

CHECKED BY:  
RWA 1/10/19  
DATE

ENGINEER'S SEAL

PREPARED BY:  
 RJR ENGINEERING GROUP  
Planning - Civil Engineering - Flood Control/Hydrology  
Geotechnical Engineering - Stormwater - Water Quality  
2340 Palma Dr, Suite 200, Ventura, CA 93003  
(805) 485-3935 (805) 485-6496 FAX  
E-mail: rjr@rjreng.com

C-58383  
RCE NUMBER

REGISTERED ENGINEER

REVIEWED FOR PERMIT ISSUANCE BY:  
CITY OF THOUSAND OAKS

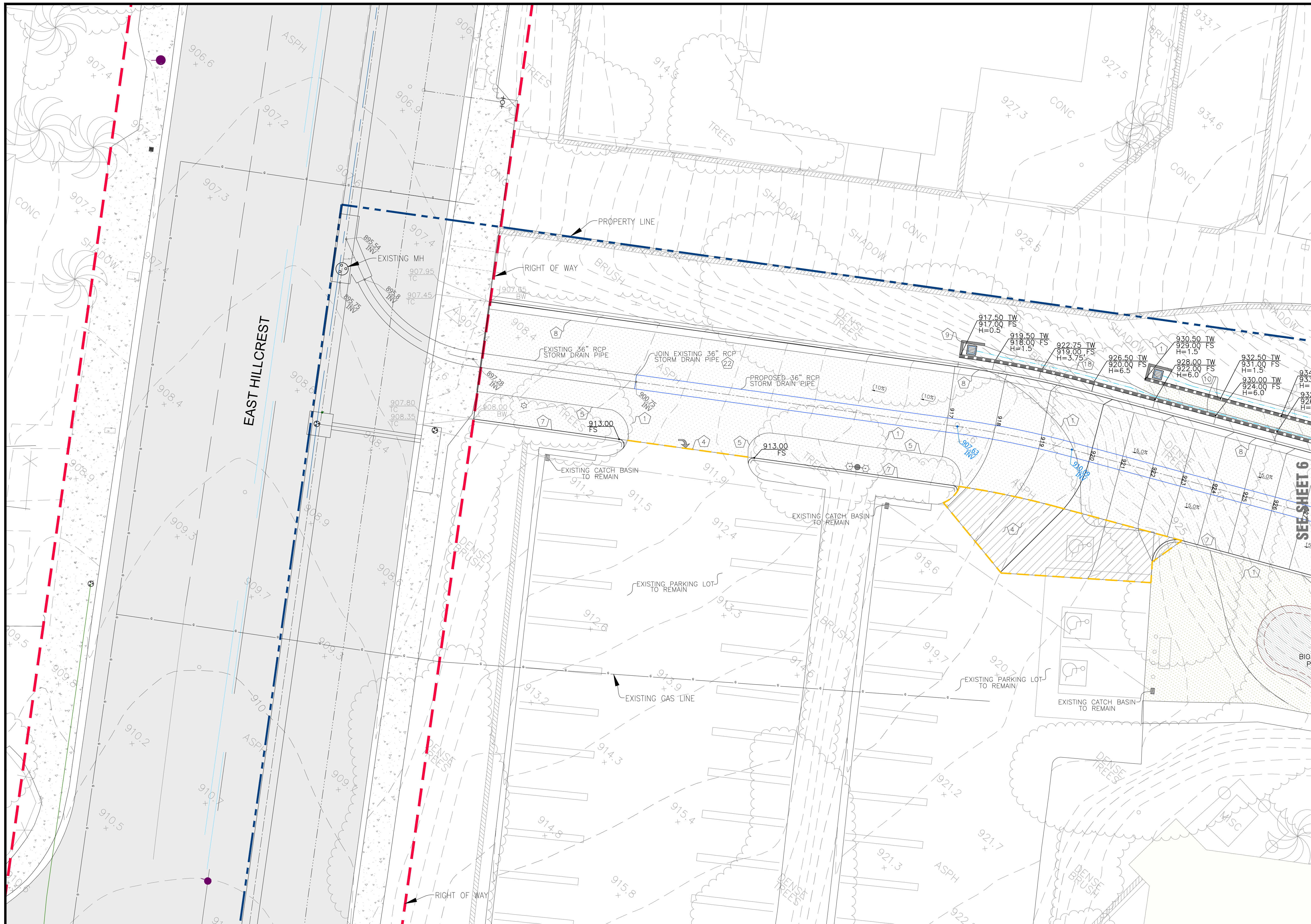
DEVELOPMENT ENGINEER	DATE
PLANNING DIVISION	DATE
<TRAFFIC ENGINEER>	DATE
<BLDG. DIVISION - ADA COMPLIANCE>	DATE
<COSCA>	DATE

CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT

**GRADING PLAN**

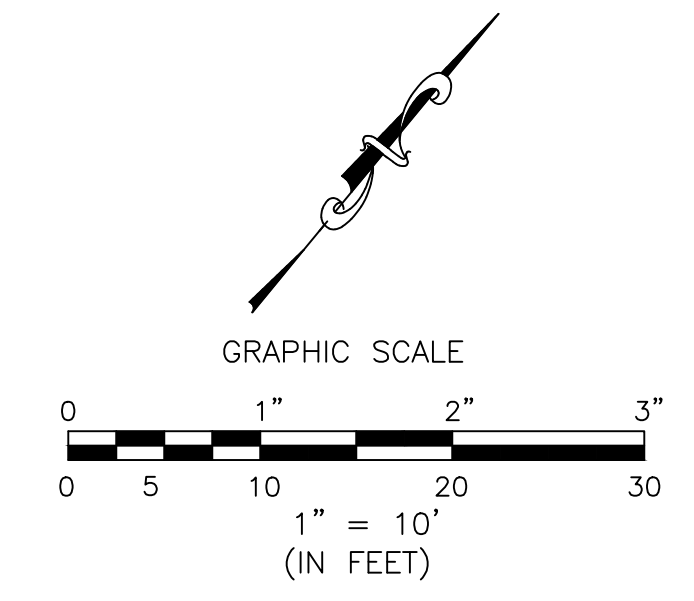
CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE

CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET CE-4 OF CE-14



- CONSTRUCTION NOTES**
- 1 REMOVE AND DISPOSE OF EXISTING TREE/BUSH/HARDSCAPE FEATURE.
  - 2 REMOVED AND DISPOSED OF EXISTING WALL.
  - 3 PROTECT EXISTING UTILITIES IN PLACE.
  - 4 SAW CUT EXISTING PAVEMENT. REMOVE AND DISPOSE OF EXISTING PAVEMENT AND REPLACE PER PLAN.
  - 5 REMOVE AND DISPOSE OF EXISTING CONCRETE CURB/GUTTER.
  - 6 INSTALL 18" CATCH BASIN PER DETAIL (D) CE-11
  - 7 INSTALL 6" CONCRETE CURB PER SPPWC 120-2 (A1)
  - 8 INSTALL 6" CONCRETE CURB AND GUTTER PER SPPWC 120-2 (A2-6)
  - 9 INSTALL CATCH BASIN AND SPLASH WALL PER DETAILS (C) CE-10 & (D) CE-11
  - 10 INSTALL RETAINING WALL PER DETAIL (A) CE-10
  - 11 SLOPE GRADING SHALL NOT EXCEED 2:1 HORIZONTAL TO VERTICAL.
  - 12 INSTALL VERDURA BLOCK, LANDSCAPED SLOPE FACING, OR APPROVED EQUAL SLOPE GRADIENT PER PLAN. SLOPE SHALL NOT EXCEED 1/4":1" HORIZONTAL TO VERTICAL. SEE DETAILS ON SHEETS 12 AND 13.
  - 13 INSTALL 18" SEAT WALL. COLOR AND TEXTURE PER PROJECT ARCHITECTURAL PLANS.
  - 14 INSTALL 4" CONCRETE SLAB. COLOR PER PROJECT ARCHITECTURAL PLANS.
  - 15 INSTALL 4" CONCRETE SIDEWALK. COLOR PER PROJECT ARCHITECTURAL PLANS.
  - 16 INSTALL PERMEABLE PAVER PARKING STALLS PER DETAIL (A) CE-11
  - 17 INSTALL BIO-RETENTION PLANTER PER DETAIL (B) CE-11
  - 18 INSTALL CONCRETE V-DITCH PER DETAIL (G) CE-10
  - 19 INSTALL ADA ACCESS RAMP PER DETAILS ON SHEET 12.
  - 20 INSTALL GATED CONCRETE DEBRIS BASIN ACCESS DRIVE.
  - 21 INSTALL DEBRIS BASIN WITH INLET PER DETAILS (E) CE-11 & (F) CE-11
  - 22 JOIN EXISTING 36" RCP STORM DRAIN. SEE STORM DRAIN PLANS.

- LEGEND**
- EXISTING BUILDING
  - PROPOSED CONCRETE - FINISH PER ARCHITECTURAL PLANS
  - PROPOSED PERMEABLE PAVERS - FINISH PER ARCHITECTURAL PLANS
  - PROPOSED PAVEMENT
  - PROPOSED LANDSCAPE/GRASS-PER LANDSCAPE ARCHITECTURAL PLANS
  - PROPOSED BIO-RETENTION PLANTER
  - PROPOSED CONCRETE DETENTION BASIN LINING
  - PROPOSED RETAINING WALL
  - PROPOSED LANDSCAPE WALL
  - EXISTING WOOD FENCE TO REMAIN
  - PROPOSED PVC PIPE
  - EXISTING SPOT ELEVATION
  - PROPOSED FINISHED GRADE
  - PROPOSED FINISHED SURFACE
  - PROPOSED RETAINING WALL INFO



PLANNING SET (NOT FOR CONSTRUCTION) 1-10-19

811  
Know what's below.  
Call before you dig.

DIAL TOLL FREE  
8 1 1  
AT LEAST TWO DAYS  
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE

DESIGNED BY:	RHH	1/10/19
DATE		
DRAWN BY:	RHH	1/10/19
DATE		
CHECKED BY:	RWA	1/10/19
DATE		

REGISTERED PROFESSIONAL ENGINEER  
ROBERT W. ANDERSON  
C-058383  
EXP. 12-31-20  
CIVIL  
STATE OF CALIFORNIA  
ENGINEER'S SEAL

PREPARED BY:

**RJR ENGINEERING GROUP**  
Planning • Civil Engineering • Flood Control/Hydrology  
Geotechnical Engineering • Stormwater • Water Quality  
2340 Palma Dr, Suite 200, Ventura, CA 93003  
(805) 485-3935 (805) 485-6496 FAX  
E-mail: rjr@rjreng.com

C-58383  
RCE NUMBER

REGISTERED ENGINEER

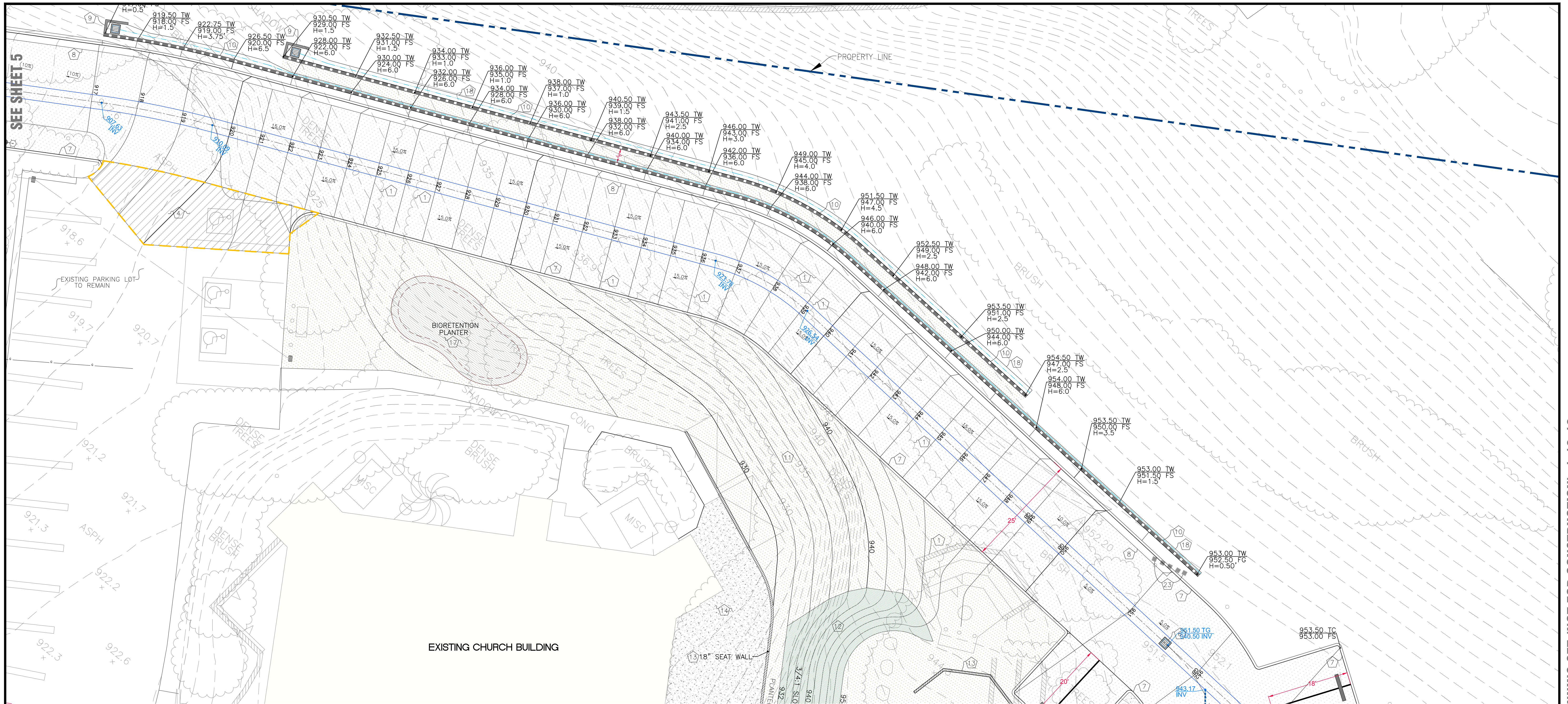
REVIEWED FOR PERMIT ISSUANCE BY:	CITY OF THOUSAND OAKS
DEVELOPMENT ENGINEER	DATE
PLANNING DIVISION	DATE
<TRAFFIC ENGINEER>	DATE
<BLDG. DIVISION - ADA COMPLIANCE>	DATE
<COSCA>	DATE

CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT

**GRADING PLAN**

CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE

CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET CE-5 OF CE-14



SEE SHEET 5

SEE SHEET 7

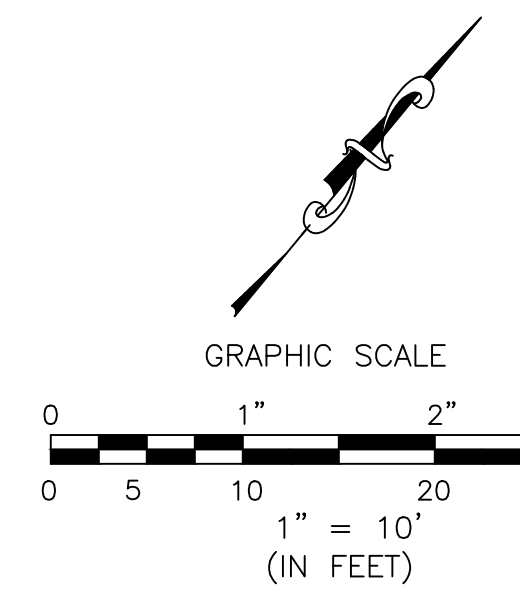
PLANNING SET (NOT FOR CONSTRUCTION) 1-10-19

**LEGEND**

- EXISTING BUILDING
- PROPOSED CONCRETE - FINISH PER ARCHITECTURAL PLANS
- PROPOSED PERMEABLE PAVERS - FINISH PER ARCHITECTURAL PLANS
- PROPOSED PAVEMENT
- PROPOSED LANDSCAPE/GRASS-PER LANDSCAPE ARCHITECTURAL PLANS
- PROPOSED BIO-RETENTION PLANTER
- PROPOSED CONCRETE DETENTION BASIN LINING
- PROPOSED RETAINING WALL
- PROPOSED LANDSCAPE WALL
- EXISTING WOOD FENCE TO REMAIN
- PROPOSED PVC PIPE
- EXISTING SPOT ELEVATION
- 18.25 FG PROPOSED FINISHED GRADE
- 18.25 FS PROPOSED FINISHED SURFACE
- 18.25 TW 17.25 FG H=1' PROPOSED RETAINING WALL INFO

**CONSTRUCTION NOTES**

- 1 REMOVE AND DISPOSE OF EXISTING TREE/BUSH/HARDSCAPE FEATURE.
- 2 REMOVED AND DISPOSED OF EXISTING WALL.
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- 4 SAW CUT EXISTING PAVEMENT. REMOVE AND DISPOSE OF EXISTING PAVEMENT AND REPLACE PER PLAN.
- 5 REMOVE AND DISPOSE OF EXISTING CONCRETE CURB/GUTTER.
- 6 INSTALL 18" CATCH BASIN PER DETAIL **(D CE-11)**
- 7 INSTALL 6" CONCRETE CURB PER SPPWC 120-2 (A1)
- 8 INSTALL 6" CONCRETE CURB AND GUTTER PER SPPWC 120-2 (A2-6)
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- 15 INSTALL 4" CONCRETE SIDEWALK. COLOR PER PROJECT ARCHITECTURAL PLANS. **(F CE-10)**
- 16 INSTALL PERMEABLE PAVER PARKING STALLS PER DETAIL **(A CE-11)**
- 17 INSTALL BIO-RETENTION PLANTER PER DETAIL **(B CE-11)**
- 18 INSTALL CONCRETE V-DITCH PER DETAIL **(G CE-10)**
- 19 INSTALL ADA ACCESS RAMP PER DETAILS ON SHEET 12.
- 20 INSTALL GATED CONCRETE DEBRIS BASIN ACCESS DRIVE.
- 21 INSTALL DEBRIS BASIN WITH INLET PER DETAILS **(E CE-11)** & **(F CE-11)**
- 22 JOIN EXISTING 36" RCP STORM DRAIN. SEE STORM DRAIN PLANS.
- 23 EXISTING IRRIGATION CONTROL BOXES TO BE RELOCATED.



**811**  
Know what's below.  
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RHH 1/10/19  
DATE

DRAWN BY:  
RHH 1/10/19  
DATE

CHECKED BY:  
RWA 1/10/19  
DATE

ENGINEER'S SEAL

PREPARED BY:  
**RJR ENGINEERING GROUP**  
Planning - Civil Engineering - Flood Control/Hydrology  
Geotechnical Engineering - Stormwater - Water Quality  
2340 Palma Dr, Suite 200, Ventura, CA 93003  
(805) 485-3935 (805) 485-6496 FAX  
E-mail: rjr@rjreng.com

REGISTERED ENGINEER  
C-58383  
RCE NUMBER

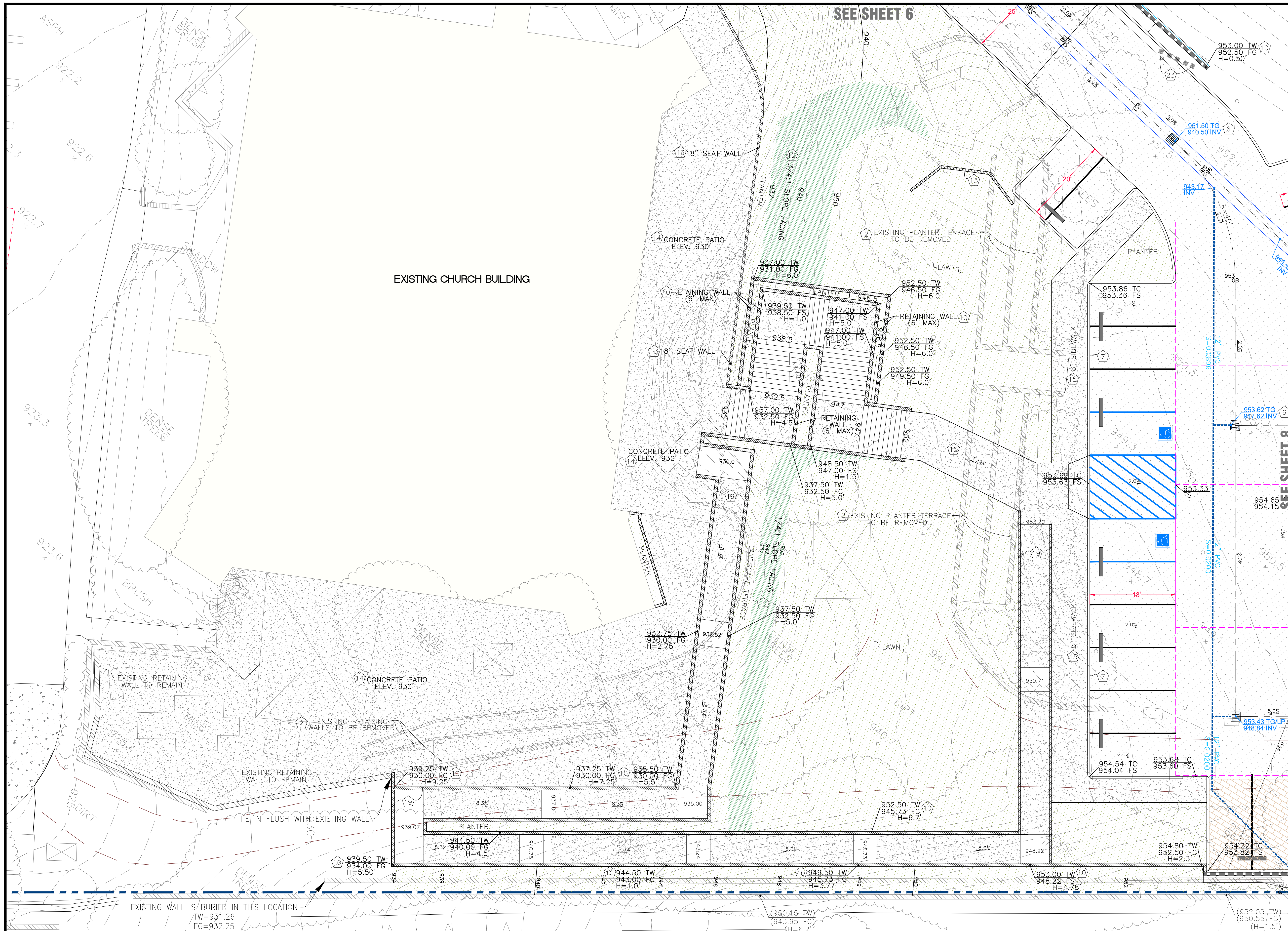
REVIEWED FOR PERMIT ISSUANCE BY: CITY OF THOUSAND OAKS	
DEVELOPMENT ENGINEER	DATE
PLANNING DIVISION	DATE
<TRAFFIC ENGINEER>	DATE
<BLDG. DIVISION - ADA COMPLIANCE>	DATE
<COSCA>	DATE

**CITY OF THOUSAND OAKS**  
PUBLIC WORKS DEPARTMENT

**GRADING PLAN**

CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE

CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET **CE-6** OF CE-14

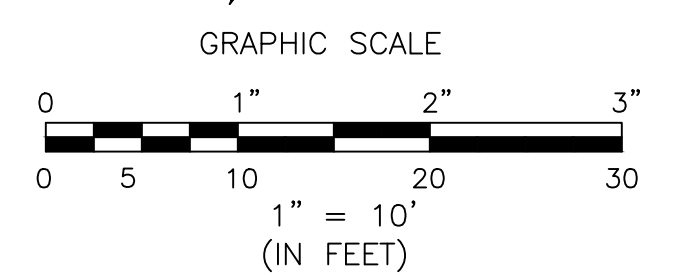
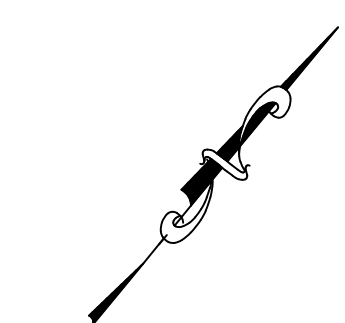


**CONSTRUCTION NOTES**

- 1 REMOVE AND DISPOSE OF EXISTING TREE/BUSH/HARDSCAPE FEATURE.
- 2 REMOVED AND DISPOSED OF EXISTING WALL.
- 3 PROTECT EXISTING UTILITIES IN PLACE.
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- 17 INSTALL BIO-RETENTION PLANTER PER DETAIL **B CE-11**
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- 22 JOIN EXISTING 36" RCP STORM DRAIN. SEE STORM DRAIN PLANS.
- 23 EXISTING IRRIGATION CONTROL BOXES TO BE RELOCATED.

**LEGEND**

- EXISTING BUILDING
- PROPOSED CONCRETE - FINISH PER ARCHITECTURAL PLANS
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- PROPOSED RETAINING WALL
- PROPOSED LANDSCAPE WALL
- EXISTING WOOD FENCE TO REMAIN
- PROPOSED PVC PIPE
- EXISTING SPOT ELEVATION
- PROPOSED FINISHED GRADE
- PROPOSED FINISHED SURFACE
- PROPOSED RETAINING WALL INFO



SEE SHEET 6

SEE SHEET 8

REVIEWED FOR PERMIT ISSUANCE BY: CITY OF THOUSAND OAKS	
DEVELOPMENT ENGINEER	DATE
PLANNING DIVISION	DATE
<TRAFFIC ENGINEER>	DATE
<BLDG. DIVISION - ADA COMPLIANCE>	DATE
<COSCA>	DATE

**CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT**

**GRADING PLAN**

CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE

CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET **CE-7** OF **CE-14**

DIAL TOLL FREE  
**8 1 1**  
AT LEAST TWO DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE

DESIGNED BY:  
RHH 1/10/19  
DATE

DRAWN BY:  
RHH 1/10/19  
DATE

CHECKED BY:  
RWA 1/10/19  
DATE

ENGINEER'S SEAL

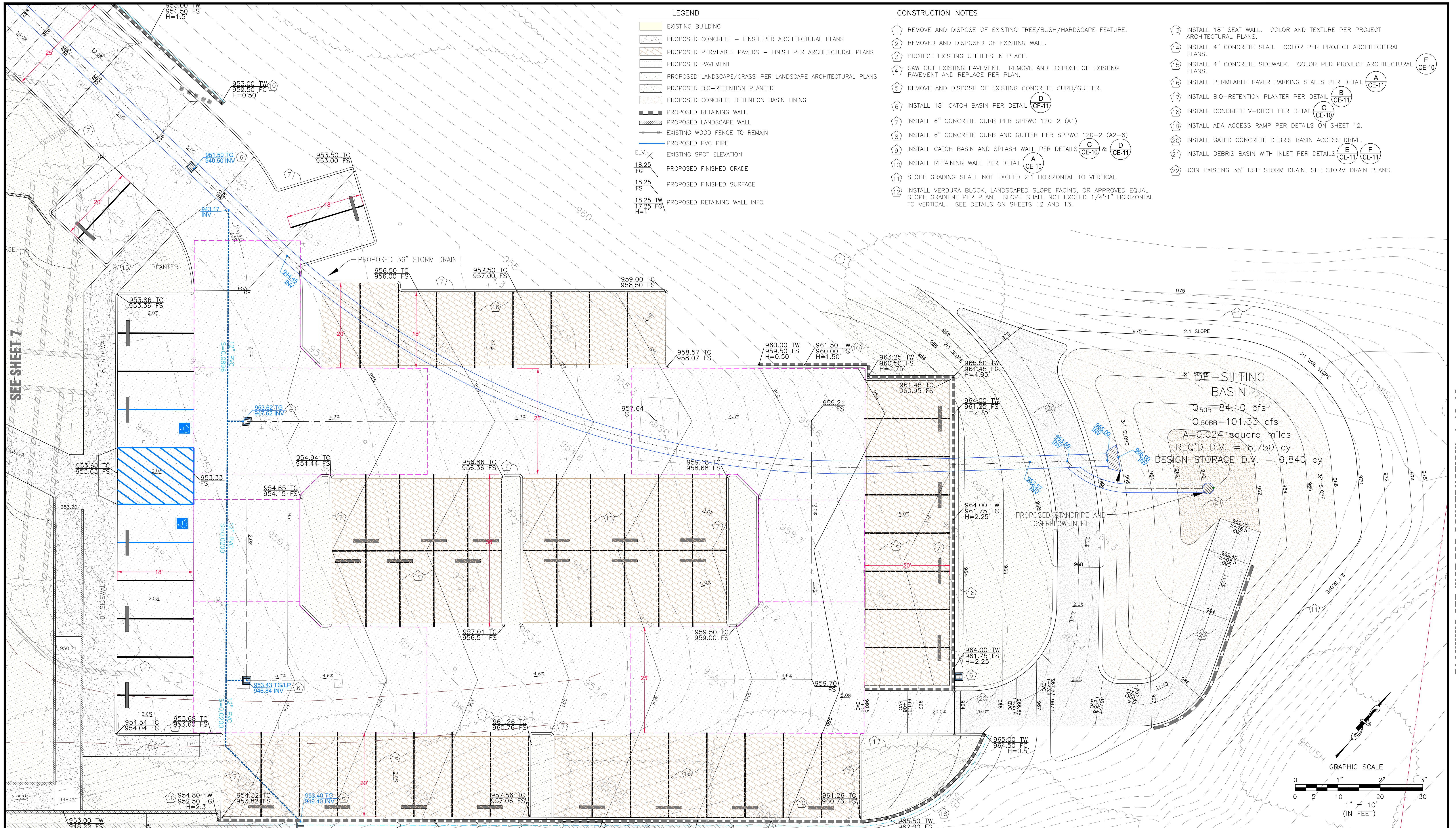
PREPARED BY:  
**RJR ENGINEERING GROUP**  
Planning - Civil Engineering - Flood Control - Hydrology  
Geotechnical Engineering - Stormwater - Water Quality  
2340 Palma Dr, Suite 200, Ventura, CA 93003  
(805) 485-3935 (805) 485-6496 FAX  
E-mail: rjr@rjreng.com

REGISTERED ENGINEER  
C-58383  
RCE NUMBER

PLANNING SET (NOT FOR CONSTRUCTION) 1-10-19

GRADING PLAN

DATE REVISED: 7-1-06



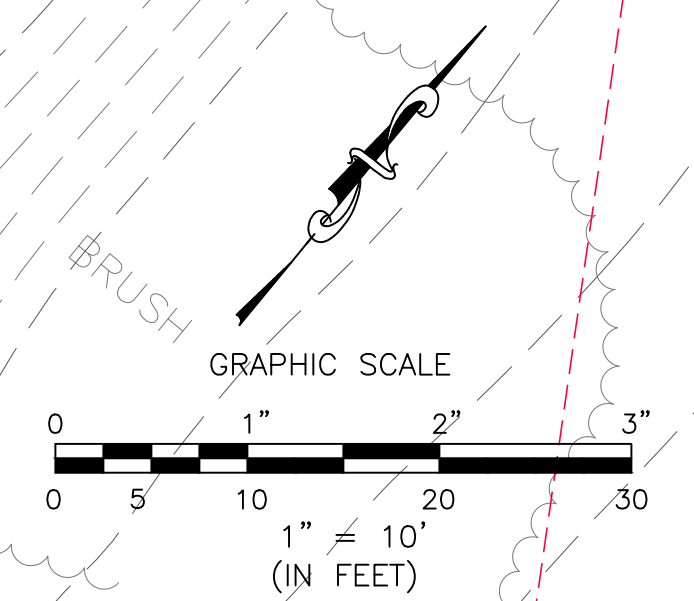
**LEGEND**

- EXISTING BUILDING
- PROPOSED CONCRETE - FINISH PER ARCHITECTURAL PLANS
- PROPOSED PERMEABLE PAVERS - FINISH PER ARCHITECTURAL PLANS
- PROPOSED PAVEMENT
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  - INSTALL 6" CONCRETE CURB AND GUTTER PER SPPWC 120-2 (A2-6)
  - INSTALL CATCH BASIN AND SPLASH WALL PER DETAILS (C) (CE-10) & (D) (CE-11)
  - INSTALL RETAINING WALL PER DETAIL (A) (CE-10)
  - SLOPE GRADING SHALL NOT EXCEED 2:1 HORIZONTAL TO VERTICAL.
  - INSTALL VERDURA BLOCK, LANDSCAPED SLOPE FACING, OR APPROVED EQUAL SLOPE GRADIENT PER PLAN. SLOPE SHALL NOT EXCEED 1/4:1" HORIZONTAL TO VERTICAL. SEE DETAILS ON SHEETS 12 AND 13.
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  - INSTALL 4" CONCRETE SIDEWALK. COLOR PER PROJECT ARCHITECTURAL PLANS.
  - INSTALL PERMEABLE PAVEMENT PARKING STALLS PER DETAIL (A) (CE-11)
  - INSTALL BIO-RETENTION PLANTER PER DETAIL (B) (CE-11)
  - INSTALL CONCRETE V-DITCH PER DETAIL (G) (CE-10)
  - INSTALL ADA ACCESS RAMP PER DETAILS ON SHEET 12.
  - INSTALL GATED CONCRETE DEBRIS BASIN ACCESS DRIVE.
  - INSTALL DEBRIS BASIN WITH INLET PER DETAILS (E) (CE-11) & (F) (CE-11)
  - JOIN EXISTING 36" RCP STORM DRAIN. SEE STORM DRAIN PLANS.

**SILTING BASIN**

$Q_{50B} = 84.10$  cfs  
 $Q_{50BB} = 101.33$  cfs  
 $A = 0.024$  square miles  
 REQ'D D.V. = 8,750 cy  
 DESIGN STORAGE D.V. = 9,840 cy



SEE SHEET 7

PLANNING SET (NOT FOR CONSTRUCTION) 1-10-19

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PREPARED BY:

**RJR ENGINEERING GROUP**  
 Planning • Civil Engineering • Flood Control/Hydrology  
 Geotechnical Engineering • Stormwater • Water Quality  
 2340 Palma Dr, Suite 200, Ventura, CA 93003  
 (805) 485-3935 (805) 485-6496 FAX  
 E-mail: rjr@rjreng.com

REGISTERED ENGINEER C-58383 RCE NUMBER

REVIEWED FOR PERMIT ISSUANCE BY:	CITY OF THOUSAND OAKS
DEVELOPMENT ENGINEER	DATE
PLANNING DIVISION	DATE
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<BLDG. DIVISION - ADA COMPLIANCE>	DATE
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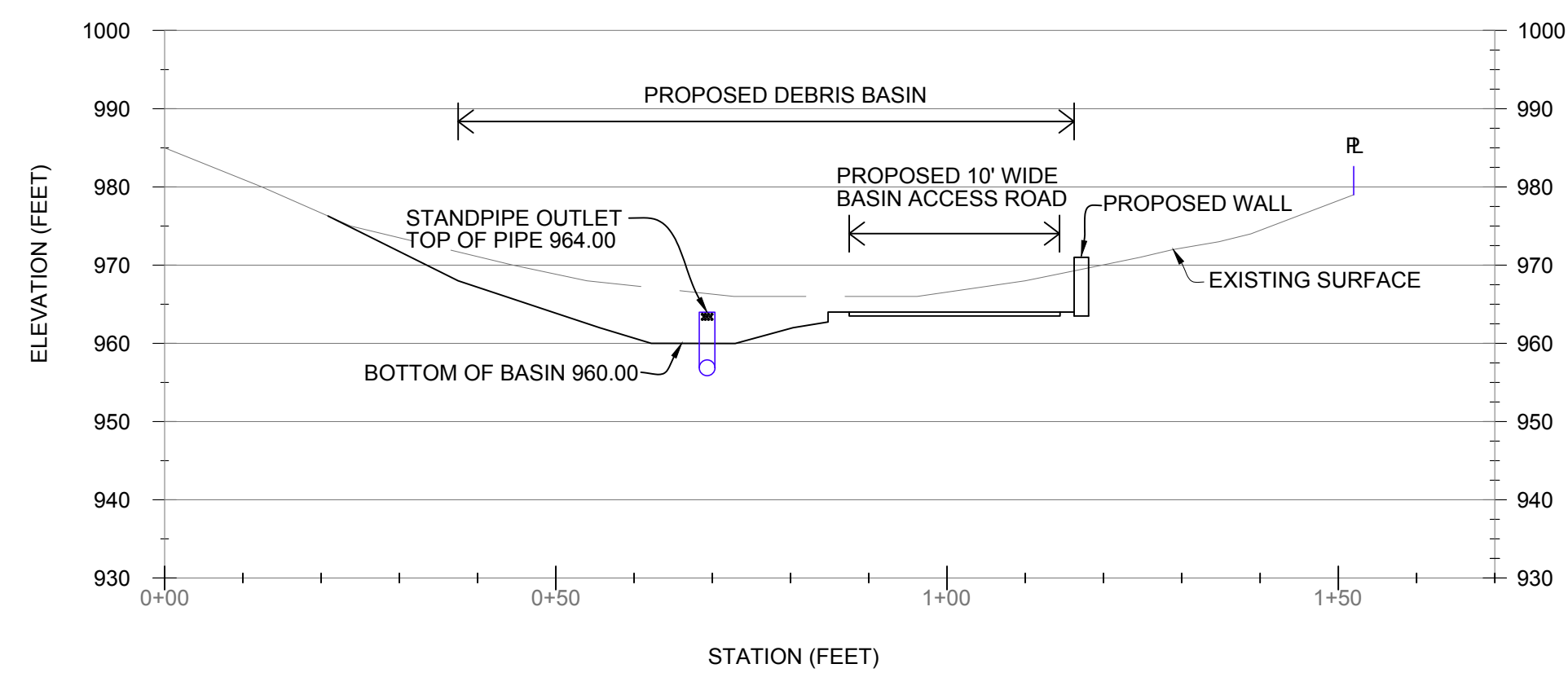
**CITY OF THOUSAND OAKS**  
**PUBLIC WORKS DEPARTMENT**

**GRADING PLAN**

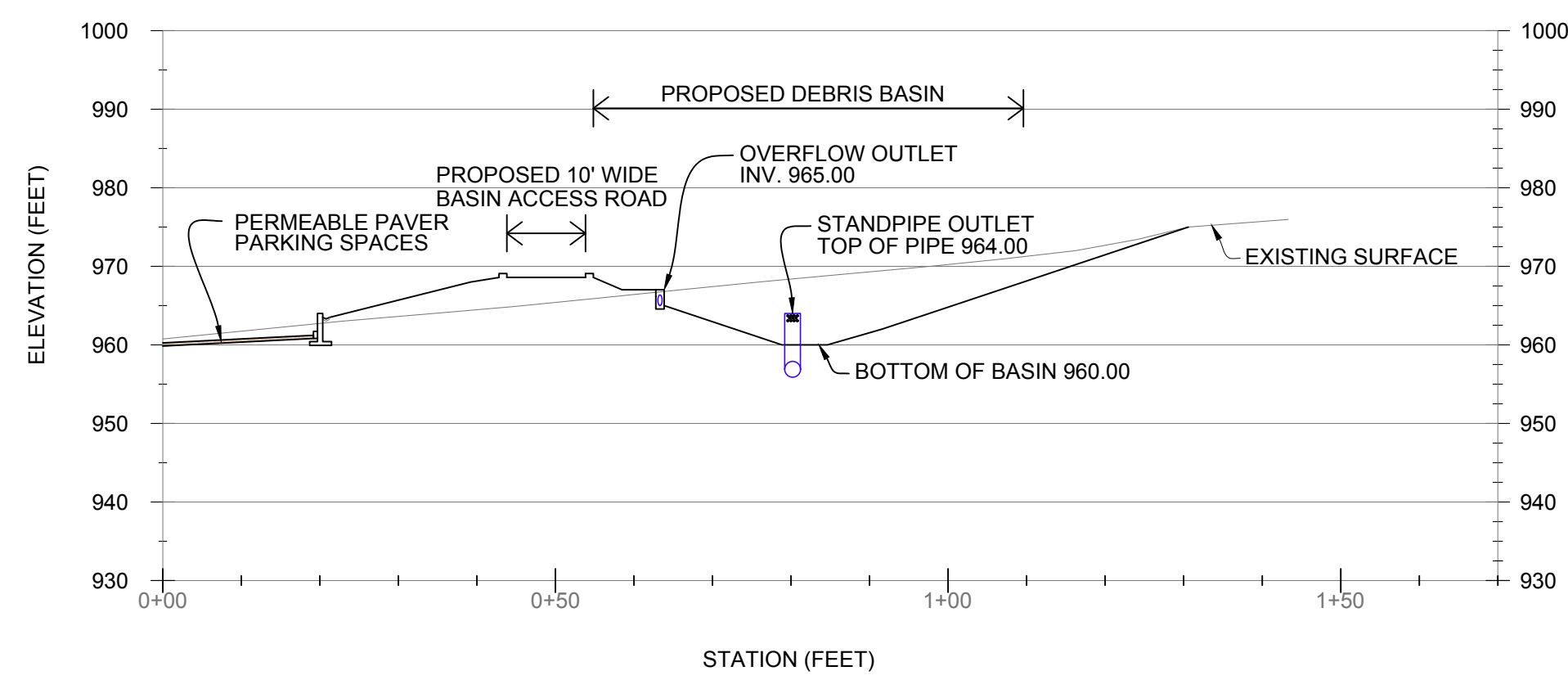
CONEJO VALLEY CHURCH OF CHRIST  
 2525 E. HILLCREST DRIVE

CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET CE-8 OF CE-14

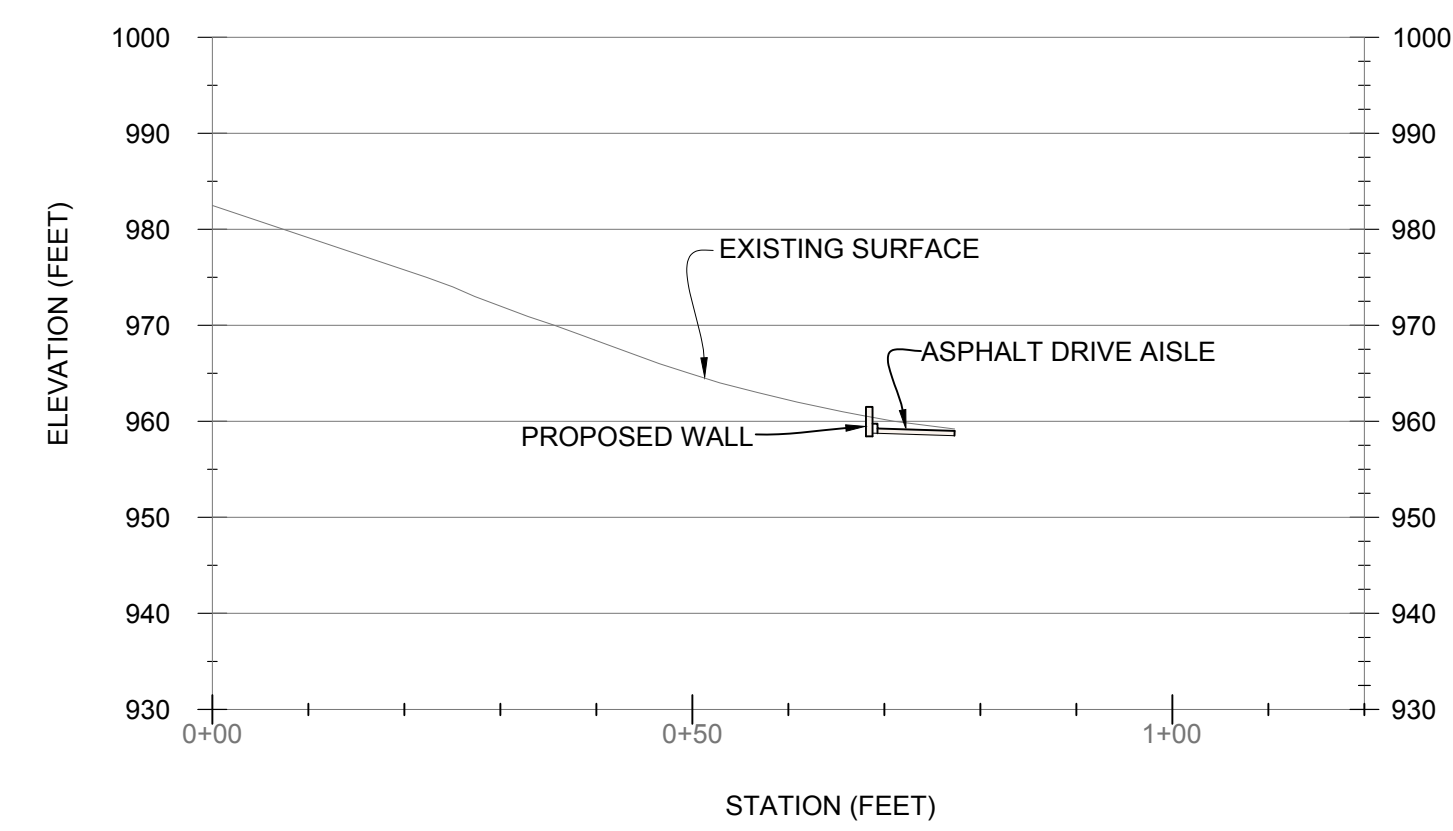




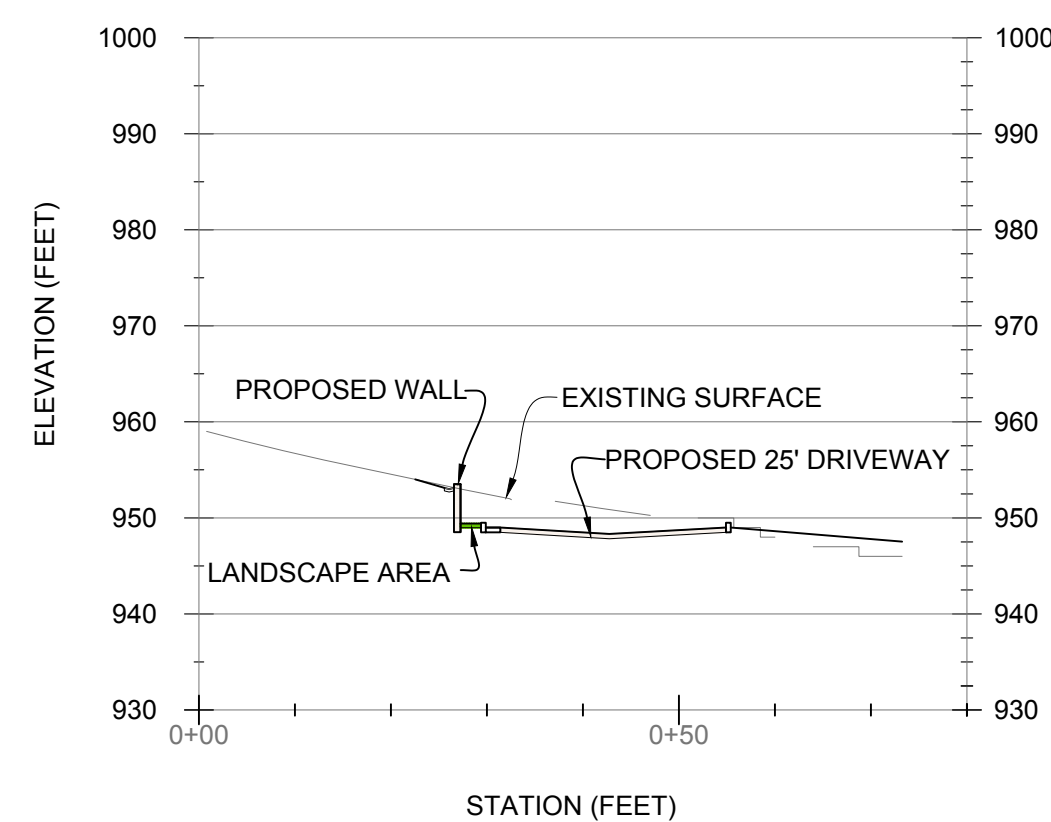
CROSS - SECTION A-A'  
SCALE: 1" = 20'



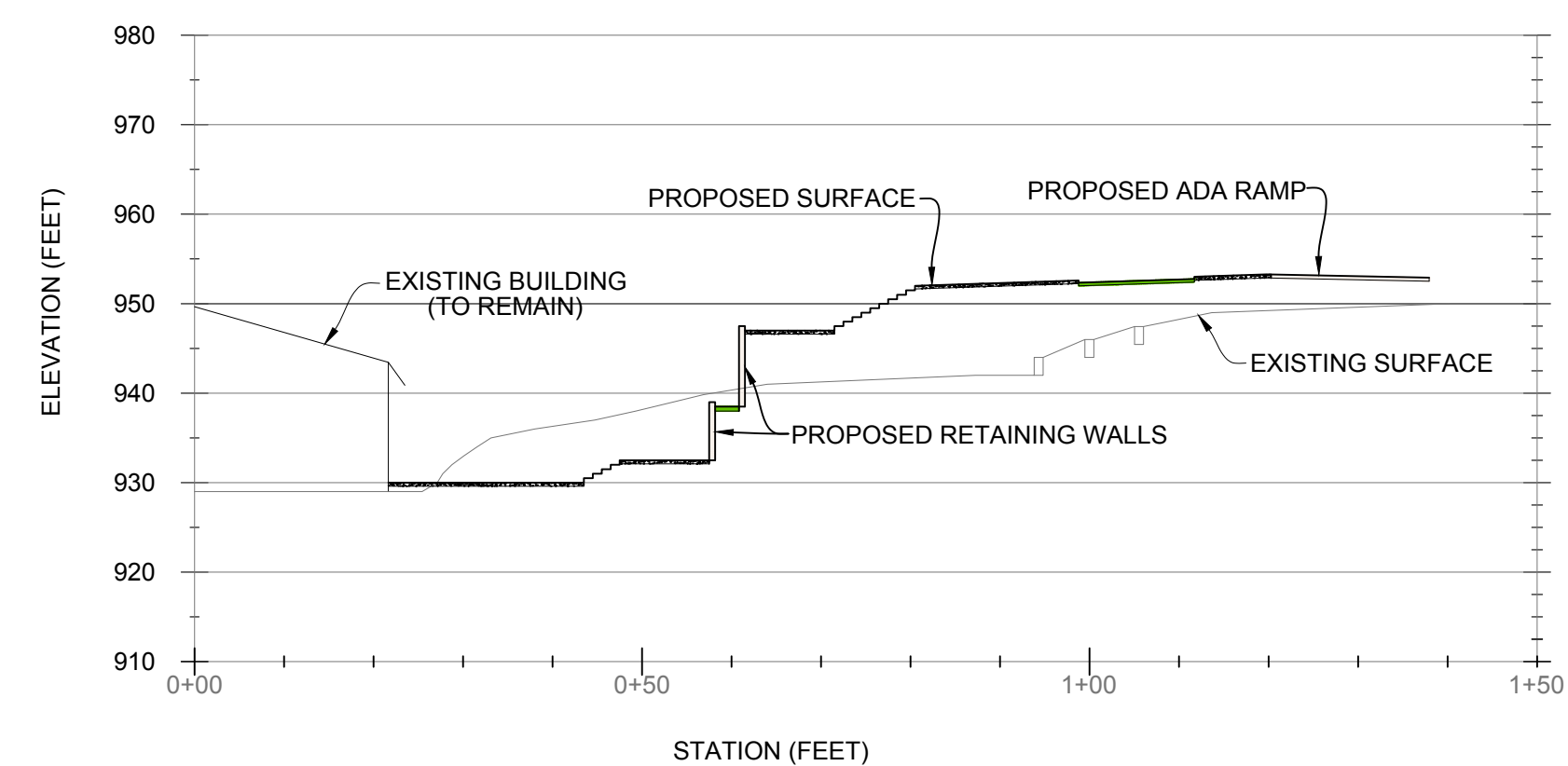
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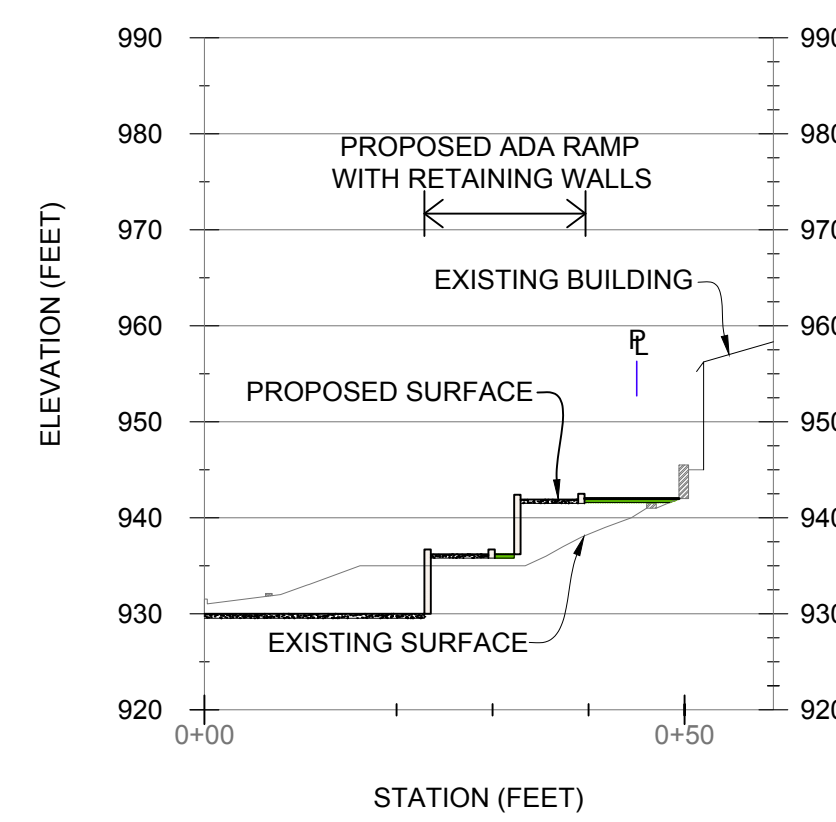
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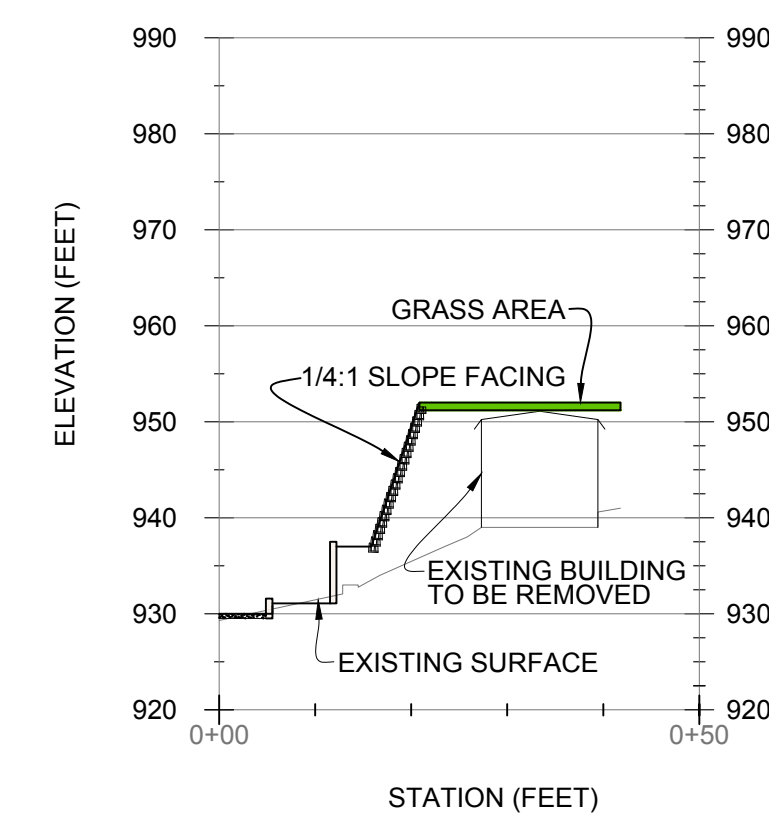
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SCALE: 1" = 20'



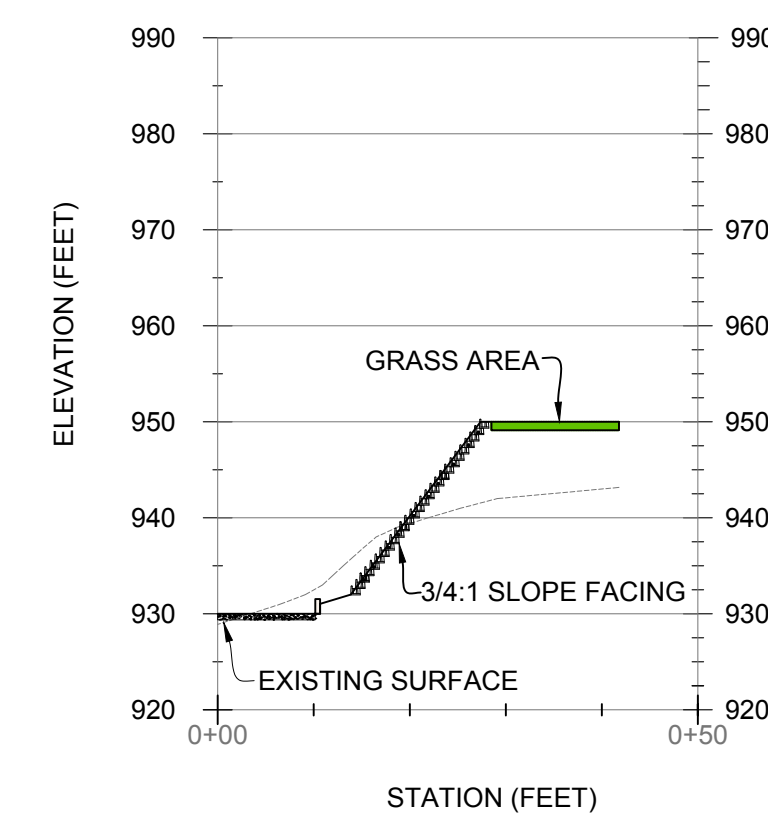
CROSS - SECTION E-E'  
SCALE: 1" = 20'



CROSS - SECTION F-F'  
SCALE: 1" = 20'



CROSS - SECTION G-G'  
SCALE: 1" = 20'



CROSS - SECTION H-H'  
SCALE: 1" = 20'

**NOTE:** NOTIFY PUBLIC WORKS INSPECTOR A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

**NOTE:** CONTRACTOR SHALL TELEPHONE UNDERGROUND SERVICE ALERT (USA) 8 1 1 OR 1(800) 422-4133 A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

REVIEWED IN ACCORDANCE WITH CITY'S POLICY CONDITIONS OF APPROVAL BY:

SIGNATURE DATE  
R.C.E. NO. EXP. DATE

THIS PLAN HAS BEEN REVIEWED BY \_\_\_\_\_ AND APPEARS TO BE IN GENERAL CONFORMITY WITH THE GEOTECHNICAL RECOMMENDATIONS IN OUR REPORT(S) DATED \_\_\_\_\_. MAKES NO REPRESENTATION AS TO THE ACCURACY OF DIMENSIONS, MEASUREMENTS, CALCULATIONS OR ANY PORTION OF THE DESIGN OTHER THAN GEOTECHNICAL.

REGISTERED GEOLOGIST NO. DATE SOILS ENGINEER NO. DATE

DESIGNED BY: RHH 1/10/19  
DRAWN BY: RHH 1/10/19  
CHECKED BY: RWA 1/10/19



PREPARED BY:



**RJR ENGINEERING GROUP**  
Planning - Civil Engineering - Flood Control/Hydrology  
Geotechnical Engineering - Stormwater - Water Quality  
2340 Palma Dr, Suite 200, Ventura, CA 93003  
(805) 485-3935 (805) 485-6496 FAX  
E-mail: rjr@rjreng.com

REGISTERED ENGINEER C-58,383 RCE NUMBER

REVIEWED FOR PERMIT ISSUANCE BY: CITY OF THOUSAND OAKS

DEVELOPMENT ENGINEER DATE  
PLANNING DIVISION DATE  
<TRAFFIC ENGINEER> DATE  
<BLDG. DIVISION - ADA COMPLIANCE> DATE  
<COSCA> DATE

CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT

CROSS SECTIONS

CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE

CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET CE-9 OF CE-14



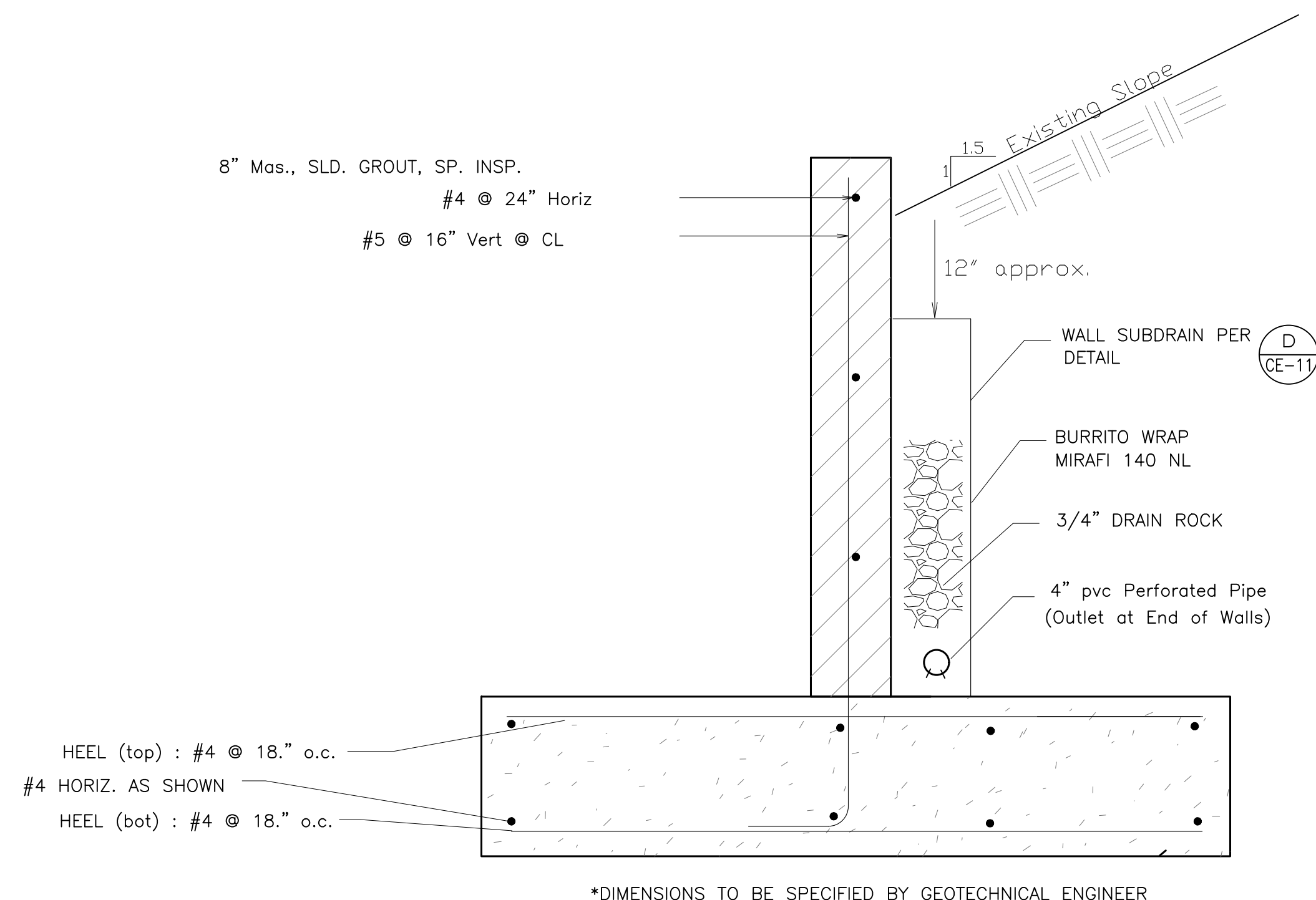
Know what's below.  
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DIAL TOLL FREE  
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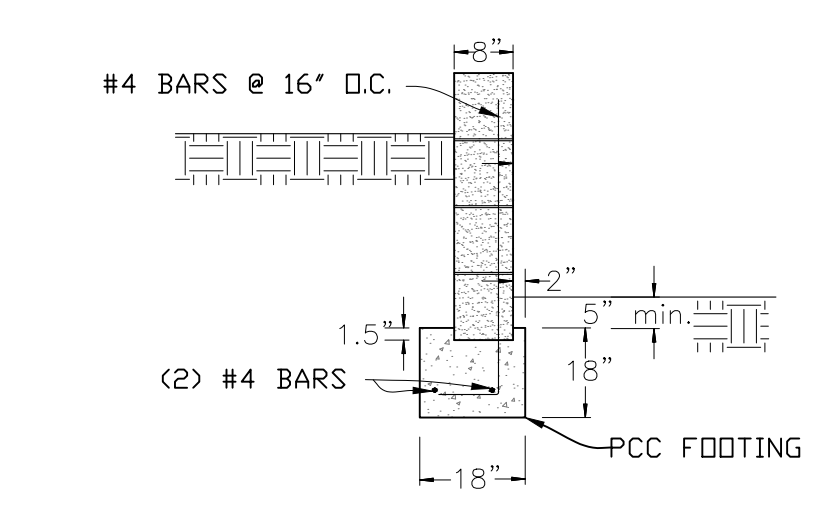
AT LEAST TWO DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

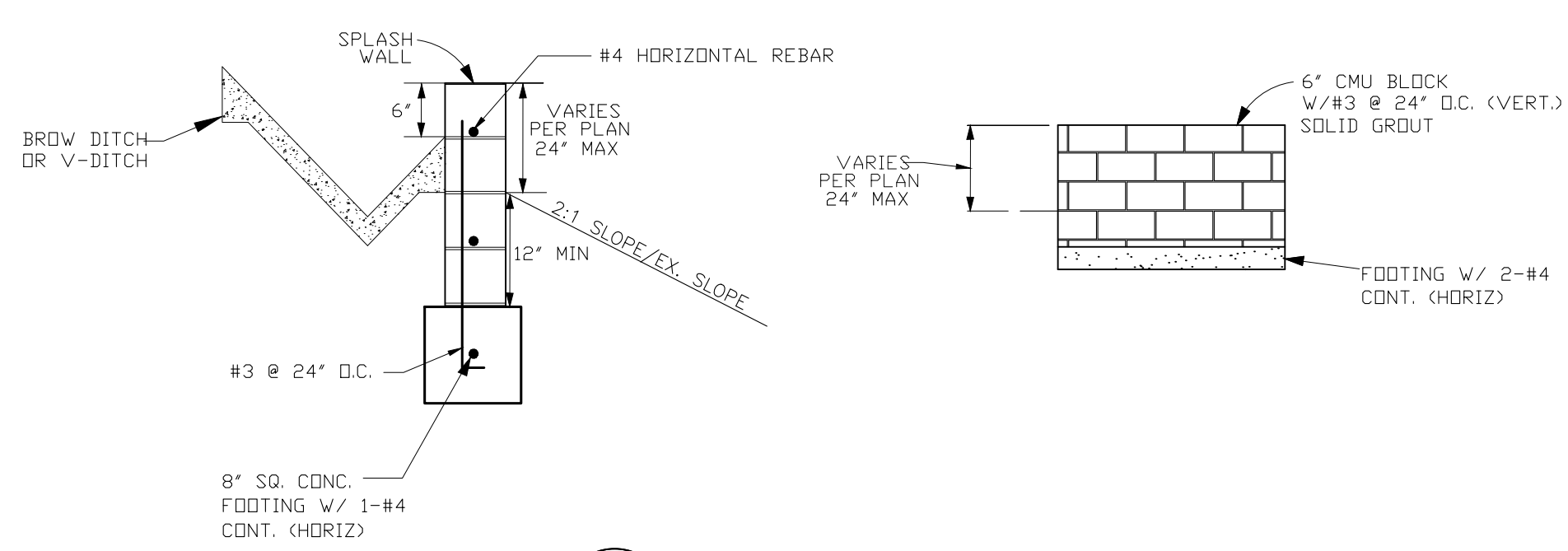
REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE



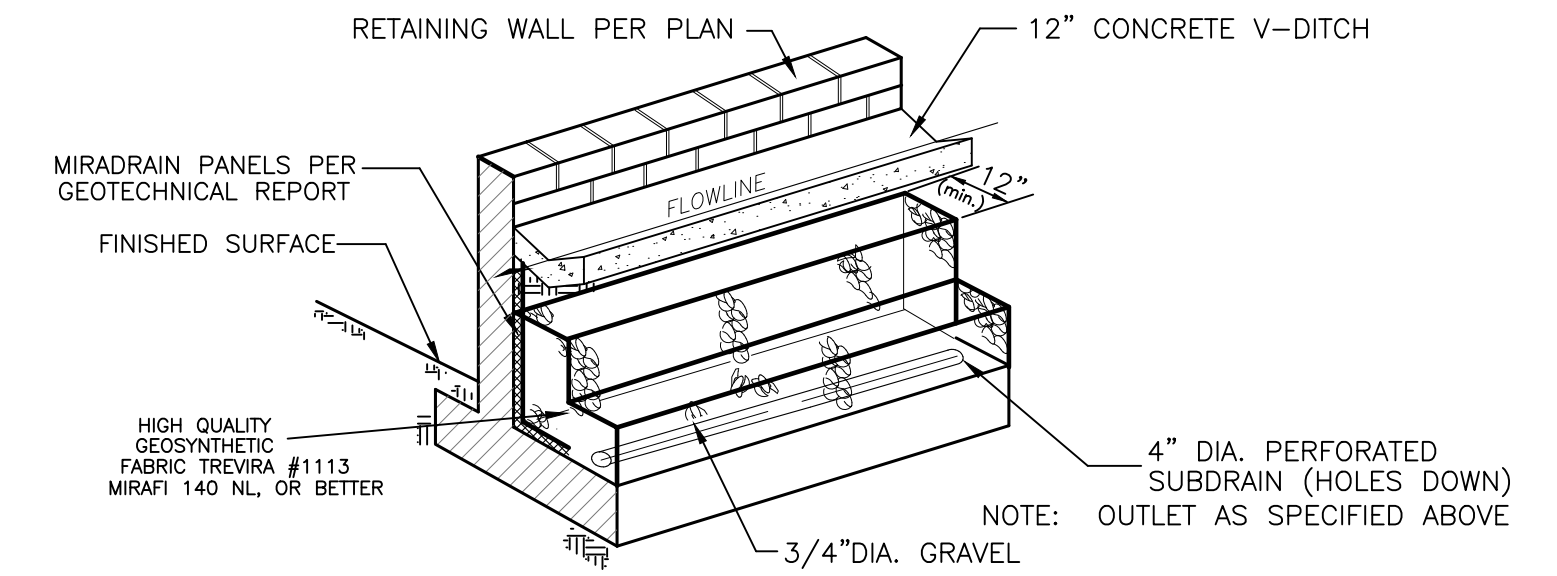
**A** TYPICAL RETAINING WALL (SLOPING CONDITION)  
CE-10 (TO BE DESIGNED) N.T.S.



**B** LANDSCAPE WALL DETAIL  
CE-10 N.T.S.



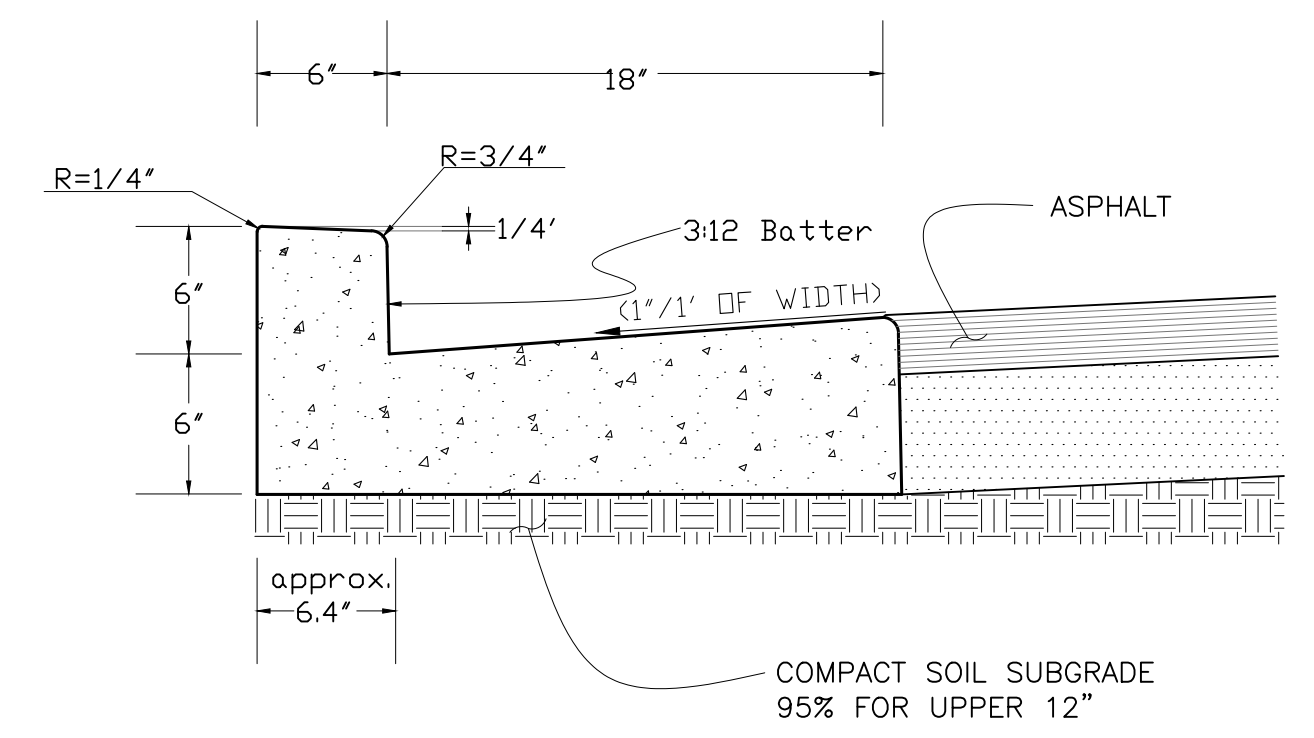
**C** SPLASH WALL DETAIL  
CE-10 N.T.S.



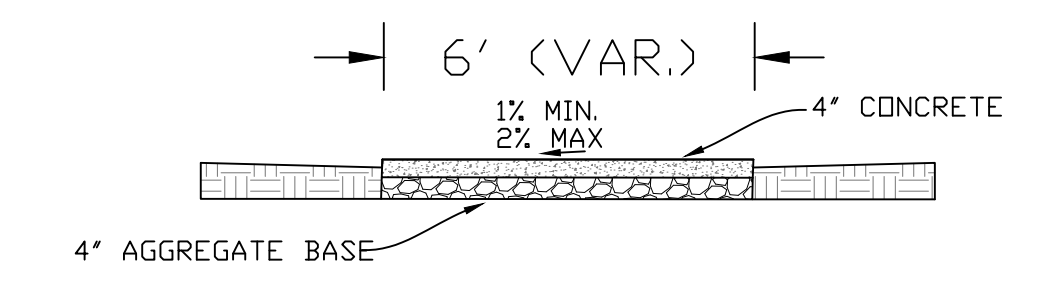
- NOTES:
- The subdrains should outlet to an appropriate discharge location to ensure that discharge will not scour or erode the surrounding soil, and the pipe will not become damaged or clogged. The outlet pipe should be a solid pipe that meets specifications set forth above for the subdrain pipe.
  - RJR Engineering Group may, upon review of field conditions, recommend additional drain lines or revise line, grade, or material specifications. All subdrains should be surveyed for line and grade after installation, and sufficient time should be allowed for this survey, prior to the placement of backfill materials over the subdrain.
  - Approved pipes: ASTM C508 or ASTM D2751 Asbestos Cement Pipe (ACP), SDR35 or ASTM D1527 Schedule 40 Acrylonitril Butadiene Styrene pipe (ABS), or ASTM D3034 or SDR35 or ASTM D1785 Schedule 40 Polyvinyl Chloride plastic pipe (PVC).
  - Drainage Material Specification: clean 3/4" rock or meet spec below:

Sieve Size	% Passing
1 - 1/2"	88 - 100
5 - 40	5 - 40
3/4"	0 - 17
3/8"	0 - 7
No. 200	0 - 3

**D** TYPICAL WALL BACKDRAIN  
CE-10 N.T.S.

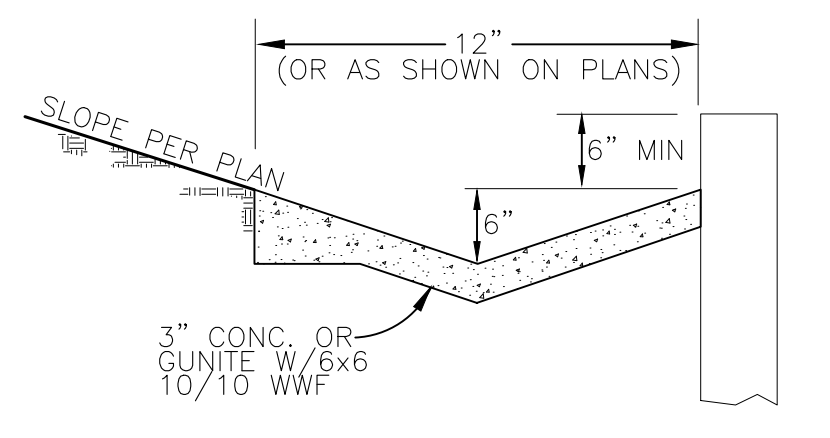


**E** CONCRETE CURB & GUTTER  
CE-10 N.T.S.

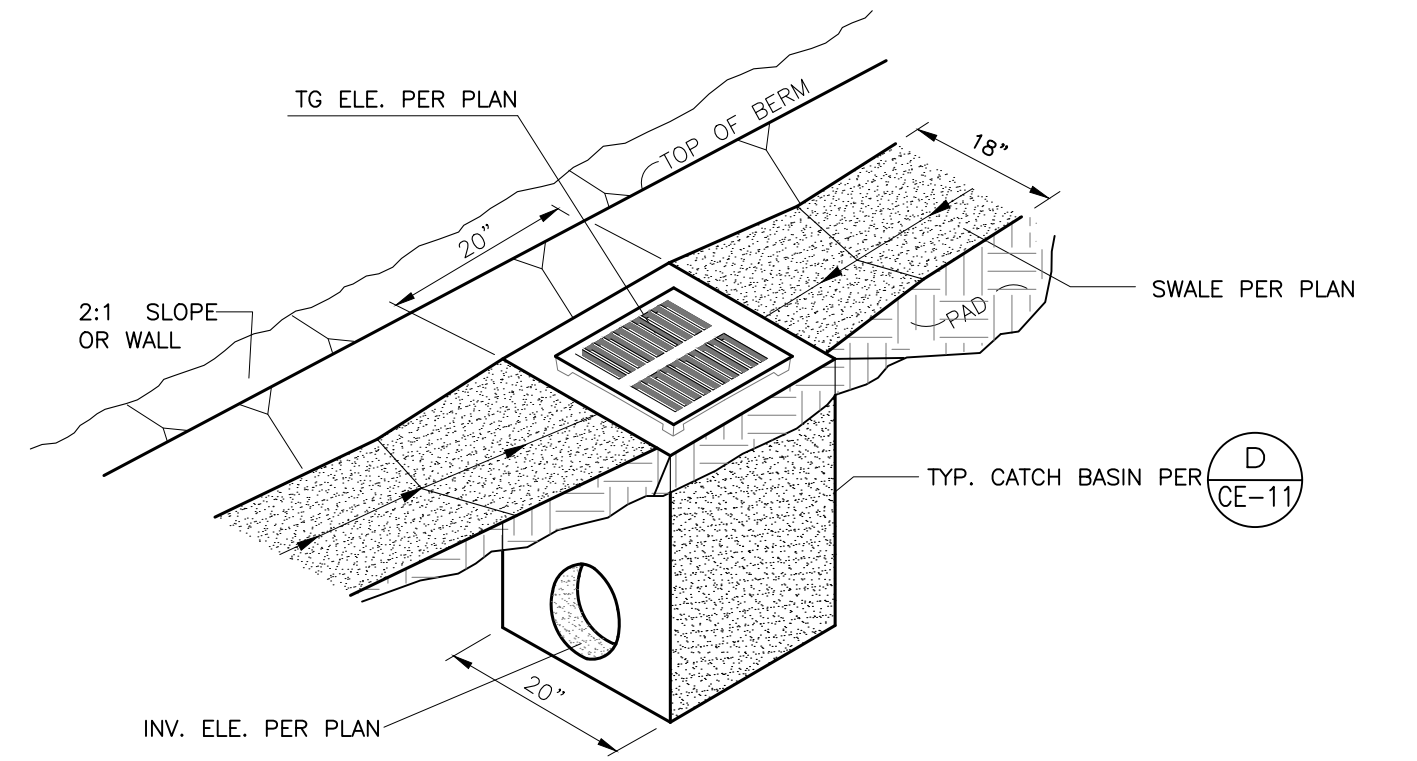


**F** 6' SIDEWALK SECTION (TYP)  
CE-10 N.T.S.

- NOTE: 1. PROVIDE FULL EXPANSION JOINTS IN SIDEWALKS AT BOTH ENDS OF DRIVEWAYS AND PARKING LOTS.  
2. 4" AGGREGATE BASE TO BE PLACED UNDER SIDEWALK AND COMPACTED TO 90% RELATIVE COMPACTION.



**G** CONC. V-DITCH  
CE-10 N.T.S.



**H** V-DITCH W/TYP. CATCH BASIN  
CE-10 N.T.S.

**811**  
Know what's below.  
Call before you dig.  
DIAL TOLL FREE 811  
AT LEAST TWO DAYS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE

DESIGNED BY:	RHH	1/10/19
DRAWN BY:	RHH	1/10/19
CHECKED BY:	RWA	1/10/19

REGISTERED PROFESSIONAL ENGINEER  
ROBERT W. ANDERSON  
C-058383  
EXP. 12-31-20  
CIVIL  
STATE OF CALIFORNIA  
ENGINEER'S SEAL

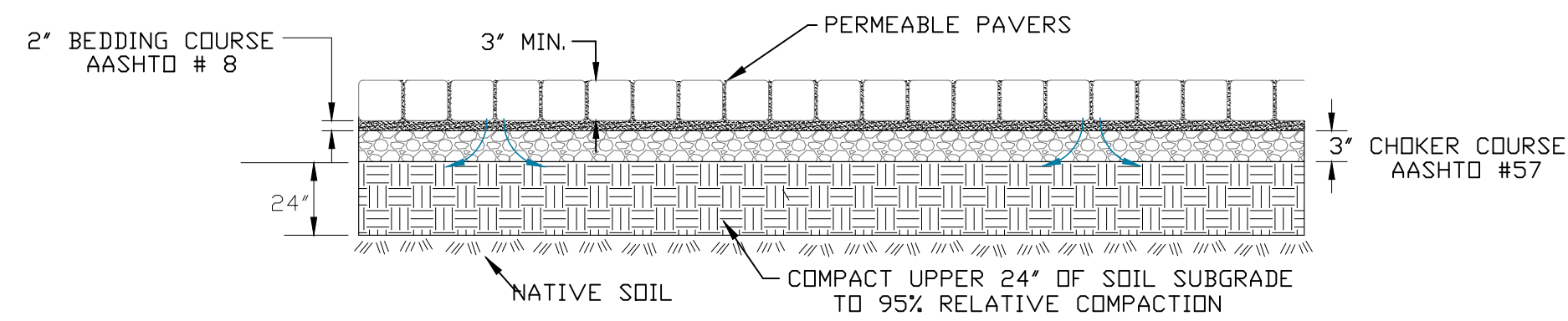
PREPARED BY:  
**RJR ENGINEERING GROUP**  
Planning • Civil Engineering • Flood Control/Hydrology  
Geotechnical Engineering • Stormwater • Water Quality  
2340 Palma Dr., Suite 200, Ventura, CA 93003  
(805) 485-3935 (805) 485-6496 FAX  
E-mail: rjr@rjreng.com  
REGISTERED ENGINEER  
C-58383  
RCE NUMBER

REVIEWED FOR PERMIT ISSUANCE BY: CITY OF THOUSAND OAKS	DATE
DEVELOPMENT ENGINEER	DATE
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<BLDG. DIVISION - ADA COMPLIANCE>	DATE
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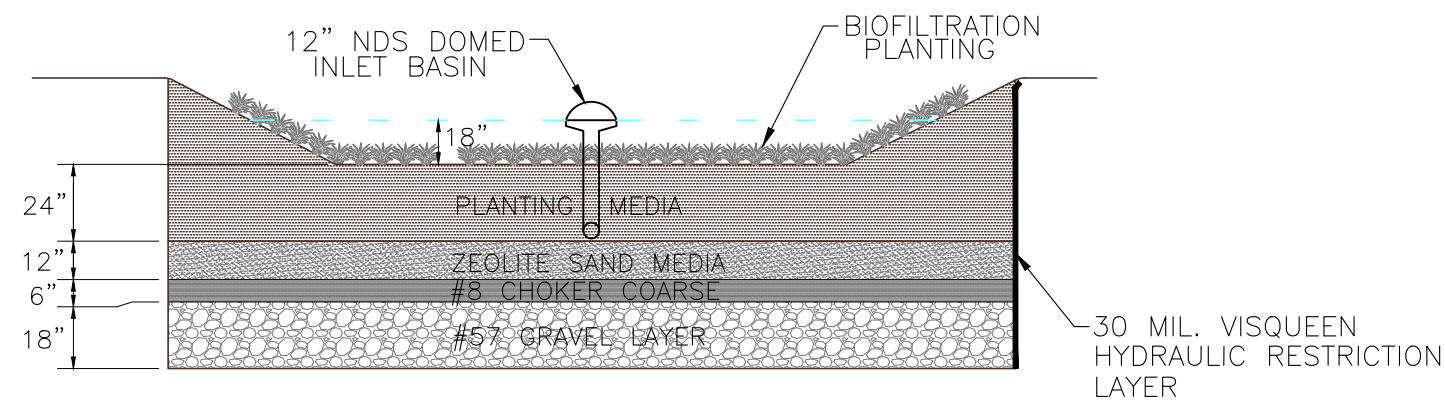
CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT  
GRADING DETAILS  
CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE  
CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET CE-10 OF CE-14

PLANNING SET (NOT FOR CONSTRUCTION) 1-10-19

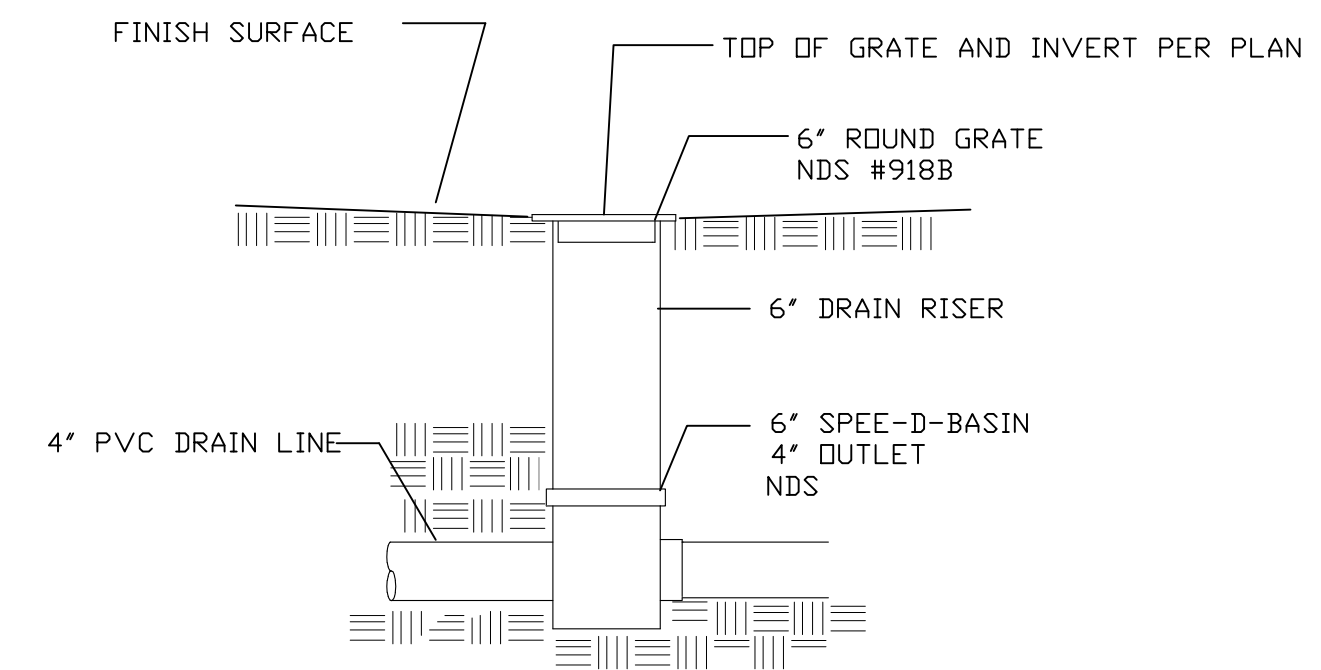
DETAILS



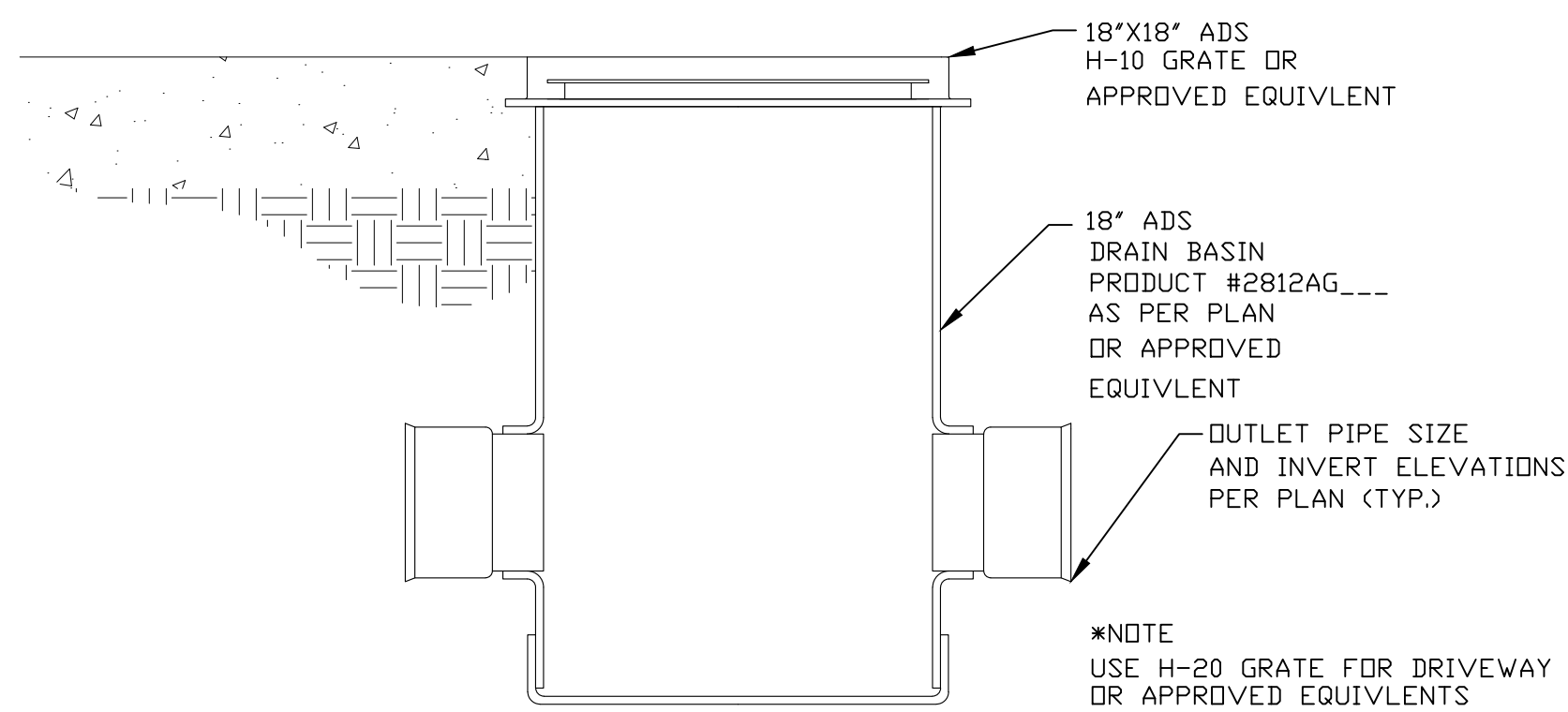
**A** PERMEABLE PAVER PARKING SECTION  
CE-11 N.T.S.



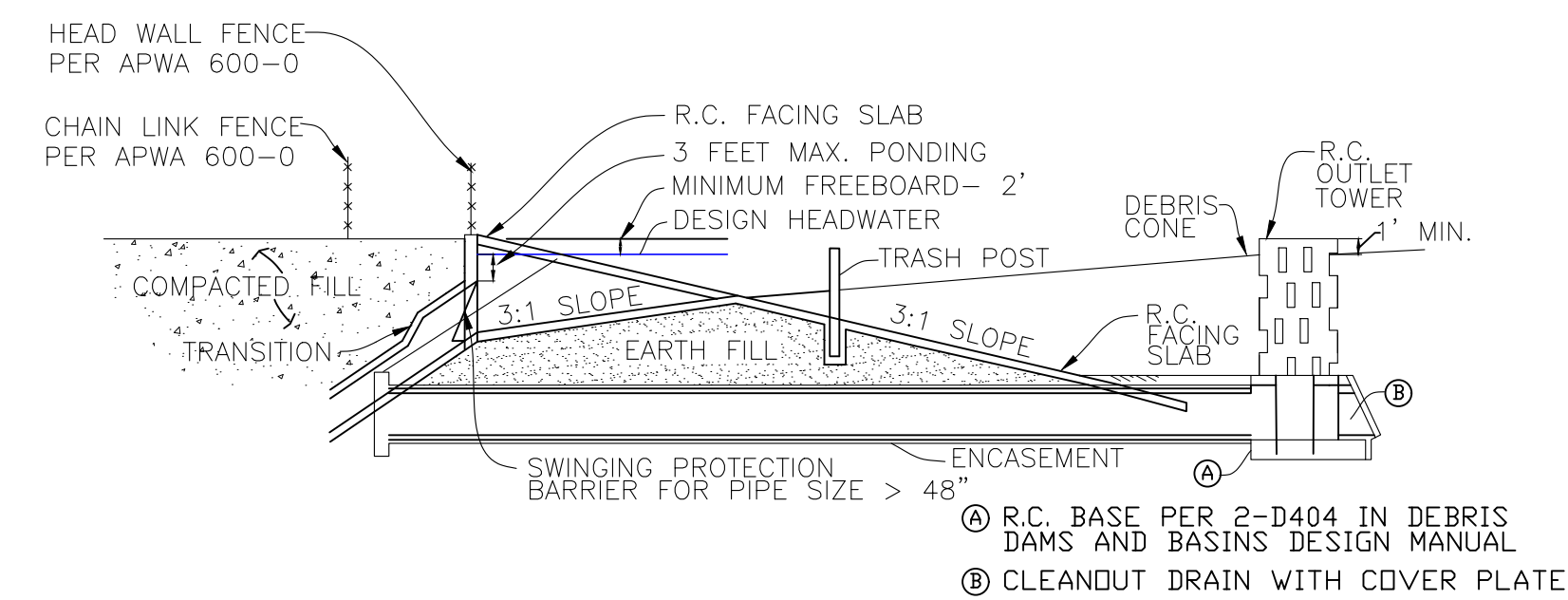
**B** BIOFILTRATION PLANTER  
CE-11 N.T.S.



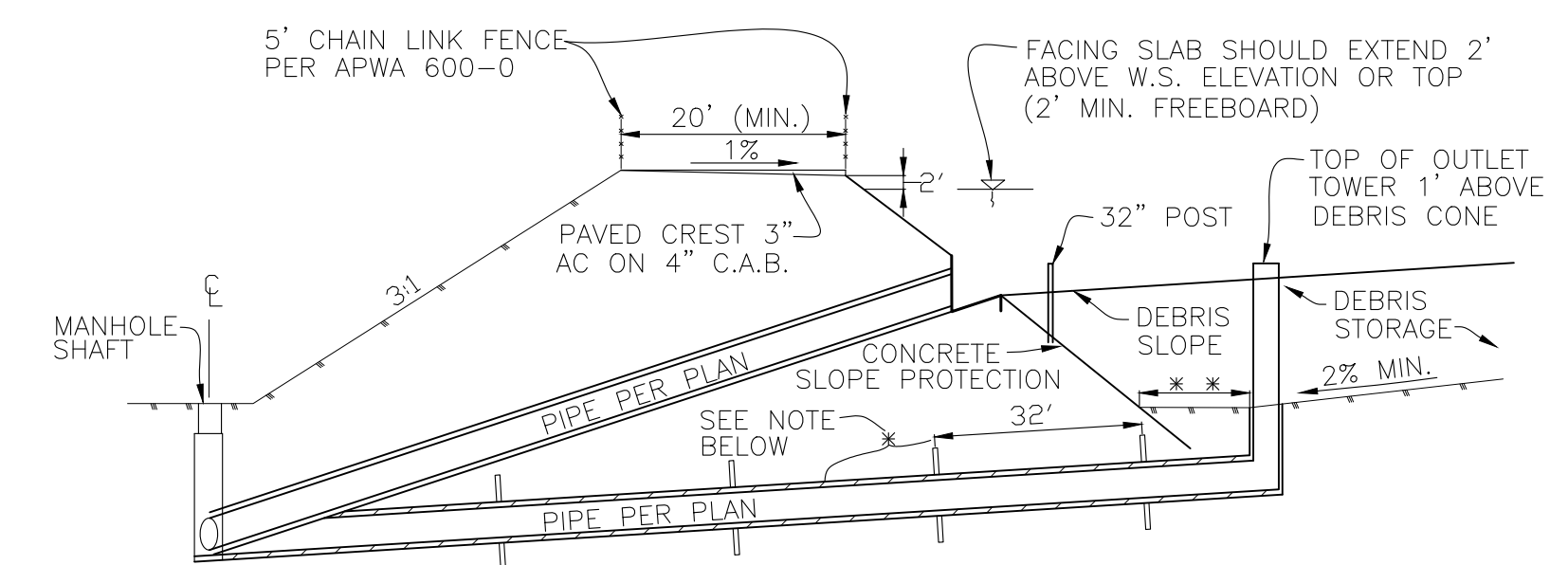
**C** AREA DRAIN  
CE-11 N.T.S.



**D** 18"X18" CATCH BASIN  
CE-11 N.T.S.



**E** DEBRIS BASIN STANDPIPE AND OVERFLOW OUTLET  
CE-11 N.T.S.

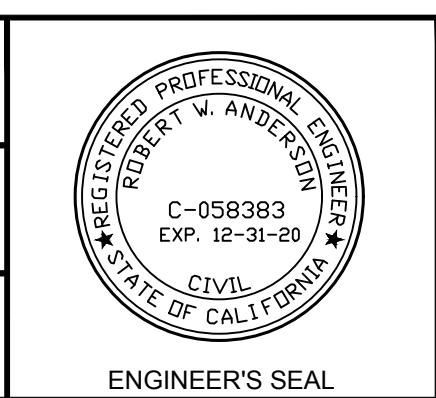


NOTES:  
 FACING SLOPES MAY BE STEEPEND IF SOIL CONDITIONS ALLOW. (SOIL APPROVAL REQUIRED)  
 LENGTH OF ENCASEMENT - A MINIMUM OF 20' AND 6 TIMES THE DEPTH OF PONDED WATER MEASURED FROM THE INTERSECTION OF THE FACING SLAB WITH THE BOTTOM OF THE BASIN.  
 DEBRIS POST FOR INLET - 4" STEEL PIPE, CONCRETE FILLED, 32" HIGH, ENBEDDED 36" IN 12" DIAMETER HOLES WITH CONCRETE.  
 \* 2450-D PIPE (PIPE DIAMETER PER PLAN) ENCASED PER DESIGN GUIDELINE 2-D404 - DEBRIS BASIN MANUAL  
 \* \* 10' MINIMUM CLEARANCE NEEDED FOR BASIN MAINTENANCE.

**F** OUTLET TOWER PROFILE  
CE-11 N.T.S.

REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE

DESIGNED BY:	RHH	1/10/19
DATE		
DRAWN BY:	RHH	1/10/19
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DATE		



PREPARED BY:  
**RJR ENGINEERING GROUP**  
 Planning - Civil Engineering - Flood Control/Hydrology  
 Geotechnical Engineering - Stormwater - Water Quality  
 2340 Palma Dr., Suite 200, Ventura, CA 93003  
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CITY OF THOUSAND OAKS  
 PUBLIC WORKS DEPARTMENT  
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# VERDURA™ BLOCK SYSTEM

## SOIL RETENTION PRODUCTS, INC.

### GENERAL

1. THE VERDURA SLOPE FACING IS A GEOGRID REINFORCED SEGMENTAL SYSTEM, INCORPORATING, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING COMPONENTS:

PRE-CAST CONCRETE MASONRY VERDURA BLOCKS LICENSED AND MANUFACTURED BY SOIL RETENTION PRODUCTS, INC. MIRAFI GEOGRID AND GEOSYNTHETIC REINFORCEMENT OR EQUAL. EXCAVATION, BACKFILL AND COMPACTION. WALL DRAINAGE SYSTEM.

2. BLOCKS WILL BE PLACED AT A 3/4:1 SLOPE AT SELECT LOCATIONS PER THE ROUGH GRADE MAP.

### SPECIAL INSPECTION

- FIELD INSPECTION AND TESTING WILL BE PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD.
- PERFORM ALL WORK UNDER THE CONTINUOUS OBSERVATION OF THE GEOTECHNICAL ENGINEER OF RECORD.
- TESTS AND ANALYSIS OF FILL MATERIAL WILL BE PERFORMED IN ACCORDANCE WITH CURRENT ASTM STANDARDS AND LOCAL GRADING ORDINANCES.
- THE GEOTECHNICAL ENGINEER WILL REVIEW AND APPROVE ALL FILL MATERIALS, INCLUDING ON-SITE MATERIALS AND IMPORTED MATERIALS.
- COMPACTION TESTING WILL BE PERFORMED IN ACCORDANCE WITH ASTM D1556, ASTM D2922 OR OTHER REFERENCED METHODS.
- IF TESTS INDICATE WORK DOES NOT MEET SPECIFIED REQUIREMENTS, REMOVE WORK, REPLACE AND RETEST AT NO COST TO OWNER.

### MATERIALS

THE FOLLOWING SYSTEM COMPONENTS SHALL BE PROVIDED:

- MODULAR MASONRY UNITS CONSISTING OF VERDURA 30, VERDURA 40, VERDURA, AND/OR VERDURA 60 .
- GEOGRID AND POSI-DURA REINFORCEMENT (INCLUDING SCHEDULE 80 PVC PIPE).
- SPECIFIED SOIL FOR BACKFILL IN THE REINFORCED ZONE
- DRAINAGE SYSTEM

#### MODULAR MASONRY UNITS

- MANUFACTURER: VERDURA RETAINING WALL SYSTEMS MANUFACTURED UNDER LICENSE BY SOIL RETENTION PRODUCTS, INC., PHONE (800) 346-7995.
- UNIT SERIES: STANDARD, ELLIPTICAL CONCRETE FACE, WITH ANGLED PROFILE PERMITTING CONCAVE/CONVEX CURVE INSTALLATION.
- UNIT SPECIFICATIONS:

VERDURA 40: 8 INCHES HIGH X 18.0 INCHES WIDE X 12 INCHES DEEP, AT 82 POUNDS PER UNIT.

- CHARACTERISTICS:  
STANDARDS: COMPLY WITH ASTM C-90 AND ASTM C-140.  
COMPRESSIVE STRENGTH: 4,000 PSI AT 28 DAYS.  
MOISTURE ABSORPTION: MAXIMUM 6 PERCENT.  
SURFACE DEFECTS: EXPOSED SURFACES OF UNITS SHALL BE FREE OF CHIPS, CRACKS OR OTHER IMPERFECTIONS WHEN VIEWED FROM A DISTANCE OF 10 FEET UNDER DIFFUSED LIGHTING.
- WALL BATTER/SET BACK:  
ALL BLOCKS SHALL BE PLACED AT 3/4:1 SLOPE.
- CURVE RADIUS: PROVIDE CURVES AS SHOWN ON DRAWINGS.
- BOND: RUNNING WITH BONDS NOMINALLY LOCATED AT THE MIDPOINT VERTICALLY OVER THE SPACE BETWEEN THE UNITS BELOW.
- MAXIMUM HORIZONTAL SPACING BETWEEN BLOCKS: 9 INCHES.

### MATERIALS (CONTINUED)

#### GEOGRID AND GEOSYNTHETIC REINFORCING

- PROVIDE GEOGRIDS AND GEOSYNTHETICS MANUFACTURED BY T.C. MIRAFI, INC. WITH LONG TERM DESIGN STRENGTHS (LTDs) AS SPECIFIED OR EQUAL:  
MIRAGRID 5XT: 1,733 LB/FT.  
MIRAGRID 6XT: 3,089 LB/FT.  
MIRAGRID 10XT: 4,116 LB/FT.  
MIRAGRID 18XT: 4,641 LB/FT.  
MIRAGRID 20XT: 5,968 LB/FT.  
MIRAGRID 22XT: 8,534 LB/FT.  
MIRAFI HS667 - POSI-DURA: 1,054 LB/FT.

#### BACKFILL FOR REINFORCED ZONE

- PROVIDE BACKFILL MATERIALS WITH MINIMUM STRENGTH PARAMETERS SPECIFIED ON PROJECT PLANS AND SPECIFICATIONS AND APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.

#### DRAINAGE SYSTEM

- PROVIDE PERFORATED AND SOLID PIPING SYSTEM CONSISTING OF 4 INCH DIAMETER SCHEDULE 40 PVC, OR AS SPECIFIED BY GEOTECHNICAL ENGINEER OF RECORD.
- PROVIDE FILTER FABRIC CONSISTING OF MIRAFI 140N, OR AS SPECIFIED BY GEOTECHNICAL ENGINEER OF RECORD.

#### OTHER MATERIALS

- PROVIDE ALL OTHER MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF THIS WORK, AS SELECTED BY THE CONTRACTOR AND SUBJECT TO THE APPROVAL OF THE PROJECT COORDINATOR.

### CONSTRUCTION

#### SURFACE CONDITIONS

- PRIOR TO WORK, CAREFULLY INSPECT PREVIOUS GRADING WORK. VERIFY THAT ALL SUCH WORK IS COMPLETE TO THE POINT WHERE THIS INSTALLATION MAY PROPERLY COMMENCE.
- VERIFY THAT WORK OF THIS SECTION WILL BE INSTALLED IN STRICT ACCORDANCE WITH THE ORIGINAL DESIGN, ALL PERTINENT CODES AND REGULATIONS, AND ALL PERTINENT PORTIONS OF THE REINFORCED STANDARDS.
- VERIFY EARTHWORK EXCAVATION, COMPACTION, WALL LINE AND GRADE BEFORE PROCEEDING WITH INSTALLATION.
- VERIFY WALL DRAINAGE SYSTEM IS COORDINATED WITH POINTS OF CONNECTION TO STORM DRAINAGE SYSTEM.
- IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE PROJECT COORDINATOR.
- DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED.

#### PREPARATION

- VERIFY THAT THE EXISTING SUBGRADE COMPLIES WITH REQUIREMENTS FOR SUBSEQUENT FILL PLACEMENT.
- WHEN THE GEOTECHNICAL ENGINEER OF RECORD DETERMINES EXISTING SOILS IN EXCAVATED AREAS DO NOT PROVIDE SUFFICIENT BEARING CAPACITY OR ARE OTHERWISE UNACCEPTABLE, REMOVE SUCH SOILS AS NECESSARY TO EXPOSE SOILS WITH ADEQUATE CAPACITY AND CHARACTERISTICS, AS APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.

#### LAYOUT

- VERIFY ALL STAKING AND FIELD ENGINEERING REQUIRED TO IMPLEMENT THE WORK AS SHOWN ON THE DRAWINGS.
- PROTECT ALL STAKES AND BENCHMARKS. REPLACE ALL STAKES AND BENCHMARKS DAMAGED DURING THE COURSE OF CONSTRUCTION AT NO COST TO OWNER.
- SET GRADE STAKES USING INSTRUMENT TECHNOLOGY. AT 50-FOOT GRID INTERVAL AT AREAS WITH GRADIENTS LESS THAN 2 PERCENT.
- SET GRADE STAKES, USING INSTRUMENT TECHNOLOGY, AT 25-FOOT GRID INTERVAL AT AREAS WITH GRADIENTS MORE THAN 2 PERCENT.
- EXCAVATE TO PROFILES AND GRADES REQUIRED TO CONSTRUCT WALL SYSTEM AS SHOWN ON APPROVED ENGINEERING SUBMITTAL.
- HAND TRIM EXCAVATIONS TO REQUIRED ELEVATIONS. CORRECT OVEREXCAVATION WITH APPROVED FILL MATERIAL.
- REMOVE LARGE STONES OR OTHER HARD MATTER, WHICH COULD DAMAGE DRAINAGE PIPE OR IMPEDE CONSISTENT BACKFILLING OR COMPACTION.
- PROVIDE ALL EQUIPMENT OF SUCH TYPE, FUNCTION AND DESIGN AS REQUIRED TO ACHIEVE SPECIFIED VALUES. WHERE NECESSARY, PROVIDE RUBBER Tired AND VIBRATORY SHEEPSFOOT COMPACTION EQUIPMENT.
- CONSTRUCT BASE LEVELING PAD, IF SOIL CONDITIONS REQUIRE.
- PLACE LEVELING PAD MATERIAL TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWING, TO A MINIMUM THICKNESS OF 6 INCHES.
- COMPACT LEVELING PAD MATERIALS TO A MINIMUM OF 90 PERCENT.
- PREPARE LEVELING PAD TO INSURE FULL CONTACT WITH THE BASE SURFACE OF THE CONCRETE UNITS.

#### SUBSURFACE DRAINAGE SYSTEM INSTALLATION

- EXCAVATE TRENCH FOR DRAINAGE PIPING AS SHOWN ON DRAWINGS.
- LAY FILTER FABRIC IN BOTTOM OF EXCAVATION PRIOR TO PLACING PERMEABLE FILL. PLACE MINIMUM 4-INCH THICK BED OF PERMEABLE FILL OVER FABRIC.
- INSTALL AND JOIN PIPE AND PIPE FITTINGS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTALL DRAINAGE PIPING WITH PERFORATIONS FACING DOWN. JOIN PIPE ENDS AND SOLVENT WELD.
- LAY PIPE TO SLOPE GRADIENTS NOTED ON DRAWINGS, WITH MAXIMUM VARIATION FROM TRUE SLOPE OF 1/8 INCH IN 10 FEET.
- BACKFILL PIPE USING 3/4 INCH ROCK TO 12 INCHES ABOVE CROWN OF PIPE.
- WRAP FILTER FABRIC AROUND AGGREGATE COVER AND TUCK LOOSE EDGE BETWEEN AGGREGATE AND SOIL.
- INSTALL BACKFILL IN ACCORDANCE WITH THE PROVISIONS OF THIS SECTION. DO NOT DISPLACE OR DAMAGE PIPE WHEN COMPACTING.
- EXTEND NON-PERFORATED PIPING TO DRAINAGE PIPING AS SHOWN ON DRAWINGS. PROVIDE TRENCHING, BEDDING AND BACKFILL AS REQUIRED.

#### MASONRY UNIT WALL SYSTEM INSTALLATION

- INSTALL IN ACCORDANCE WITH CONTRACT DOCUMENTS AND MANUFACTURER'S RECOMMENDED PROCEDURES.
- MAINTAIN ALIGNMENT AND PATTERN AS SHOWN ON DRAWINGS AND IN ACCORDANCE WITH ALLOWABLE TOLERANCES.
- PLACE FIRST COURSE OF UNITS AND ASSURE ALIGNMENT. MOLDED SURFACES OF MODULAR CONCRETE UNITS SHALL BE USED FOR ALIGNMENT CONTROL.
- POSITION VERTICALLY ADJACENT MODULAR CONCRETE UNITS AS RECOMMENDED BY THE MANUFACTURER.
- MAXIMUM STACKED VERTICAL HEIGHT OF WALL UNITS, PRIOR TO WALL DRAIN FILL AND BACKFILL PLACEMENT AND COMPACTION, SHALL NOT EXCEED ONE COURSE.
- ERECT WHOLE UNITS ON CURVES AND CORNERS WITH RUNNING BOND APPROXIMATELY CENTERED ON UNITS ABOVE AND BELOW.
- REMOVE ALL DAMAGED, BROKEN AND EXCESS UNITS FROM THE SITE.

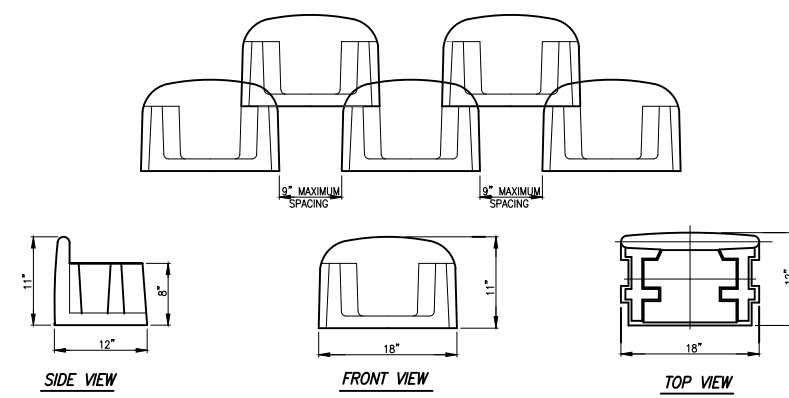
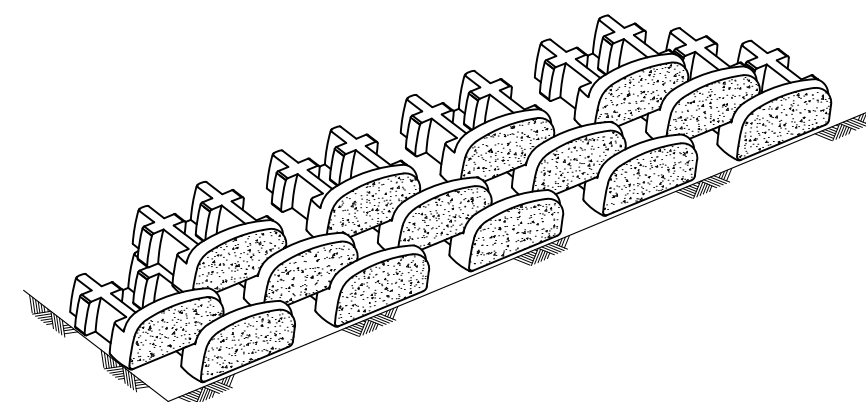
### CONSTRUCTION (CONTINUED)

#### STRUCTURAL GEOGRID INSTALLATION

- GEOGRID SHALL BE ORIENTED WITH THE HIGHEST STRENGTH AXIS PERPENDICULAR TO THE WALL ALIGNMENT.
- GEOGRID REINFORCEMENT SHALL BE PLACED AT THE ELEVATIONS AND TO THE EXTENT SHOWN ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE ENGINEER.
- THE GEOGRID SHALL BE LAID HORIZONTALLY ON COMPACTED BACKFILL. ALLOWABLE VARIATION FROM HORIZONTAL IS 6 VERTICAL INCHES (UP OR DOWN) PER 10 HORIZONTAL FEET (3 +/- DEGREES FROM HORIZONTAL). PLACE THE NEXT COURSE OF MODULAR CONCRETE UNITS OVER GEOGRID. THE GEOGRID SHALL BE PULLED TAUT AND ANCHORED PRIOR TO BACKFILL PLACEMENT ON THE GEOGRID.
- GEOGRID REINFORCEMENT SHALL BE CONTINUOUS THROUGHOUT THE EMBEDMENT LENGTHS. SPLICED CONNECTIONS BETWEEN SHORTER PIECES OF GEOGRID ARE NOT ALLOWED UNLESS PRE-APPROVED BY THE WALL DESIGNER PRIOR TO CONSTRUCTION.
- INSTALLATION ON CURVES PER DETAIL

#### REINFORCED BACKFILL PLACEMENT

- PROVIDE ALL FILL MATERIAL REQUIRED TO ACHIEVE GRADES, SLOPES AND CONTOURS AS SHOWN ON DRAWINGS AT NO ADDITIONAL EXPENSE TO OWNER.
- PLACE, SPREAD AND COMPACT REINFORCED BACKFILL IN SUCH A MANNER THAT MINIMIZES THE DEVELOPMENT OF SLACK IN THE GEOGRID.
- PLACE AND COMPACT REINFORCED BACKFILL IN LIFTS NOT TO EXCEED 6 INCHES WHERE HAND COMPACTION IS USED OR 12 INCHES WHERE HEAVY COMPACTION EQUIPMENT IS USED.
- COMPACT REINFORCED BACKFILL TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. MAINTAIN MOISTURE CONTENT OF THE BACKFILL MATERIAL PRIOR TO AND DURING COMPACTION UNIFORMLY DISTRIBUTED THROUGHOUT EACH LAYER AND WITHIN 2 PERCENT OF OPTIMUM WATER CONTENT.
- DO NOT OPERATE TRACKED CONSTRUCTION EQUIPMENT DIRECTLY UPON THE GEOGRID REINFORCEMENT. PROVIDE A MINIMUM FILL THICKNESS OF 6 INCHES PRIOR TO OPERATION OF TRACKED VEHICLES OVER THE GEOGRID. MAKE ALL PASSES BY TRACKED VEHICLE IN STRAIGHT RUNS. MINIMIZE TURNING MOVEMENTS ON GRID AREA TO PREVENT TRACKS FROM DISPLACING THE FILL AND DAMAGING THE GEOGRID.
- RUBBER Tired EQUIPMENT MAY PASS OVER GEOGRID REINFORCEMENT AT SLOW SPEEDS, LESS THAN 5 MPH. AVOID SUDDEN BRAKING AND SHARP TURNING.
- AT THE END OF EACH DAY'S OPERATION, SLOPE THE LAST LIFT OF REINFORCED BACKFILL AWAY FROM THE WALL UNITS TO DIRECT RUNOFF AWAY FROM WALL FACE. DO NOT PERMIT SURFACE RUNOFF FROM ADJACENT AREAS TO ENTER THE WALL CONSTRUCTION SITE.
- REMOVE ALL EXCESS SOILS AND DISPOSE OF OFF-SITE IN A LEGAL MANNER.
- PROVIDE DUST CONTROL. CONFORM TO STORM WATER POLLUTION PROTECTION PLAN PROCEDURES AND METHODS AS SHOWN ON CURRENT SWPPP. UPDATE PLAN AS REQUIRED.



VERDURA-40 BLOCK SLOPE FACING  
N.T.S.

**811**  
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Call before you dig.  
DIAL TOLL FREE  
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AT LEAST TWO DAYS  
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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE

DESIGNED BY:	RHH	1/10/19
DATE		
DRAWN BY:	RHH	1/10/19
DATE		
CHECKED BY:	RWA	1/10/19
DATE		

ENGINEER'S SEAL

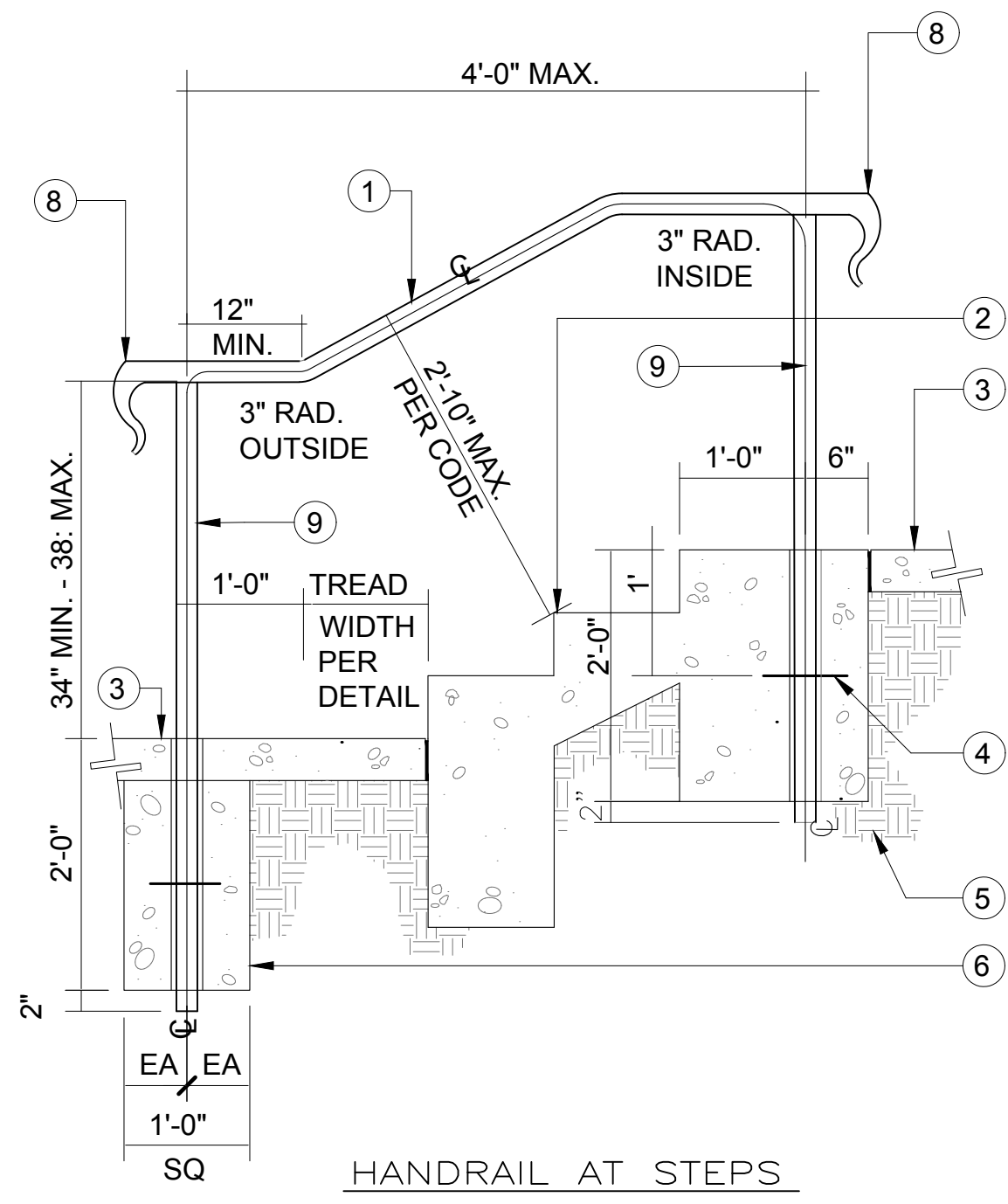
PREPARED BY:  
**RJR ENGINEERING GROUP**  
 Planning • Civil Engineering • Flood Control/Hydrology  
 Geotechnical Engineering • Stormwater • Water Quality  
 2340 Palma Dr, Suite 200, Ventura, CA 93003  
 (805) 485-3935 (805) 485-6496 FAX  
 E-mail: rjr@rjreng.com  
 C-58383  
 REGISTERED ENGINEER RCE NUMBER

REVIEWED FOR PERMIT ISSUANCE BY: CITY OF THOUSAND OAKS	
DEVELOPMENT ENGINEER	DATE
PLANNING DIVISION	DATE
<TRAFFIC ENGINEER>	DATE
<BLDG. DIVISION - ADA COMPLIANCE>	DATE
<COSCA>	DATE

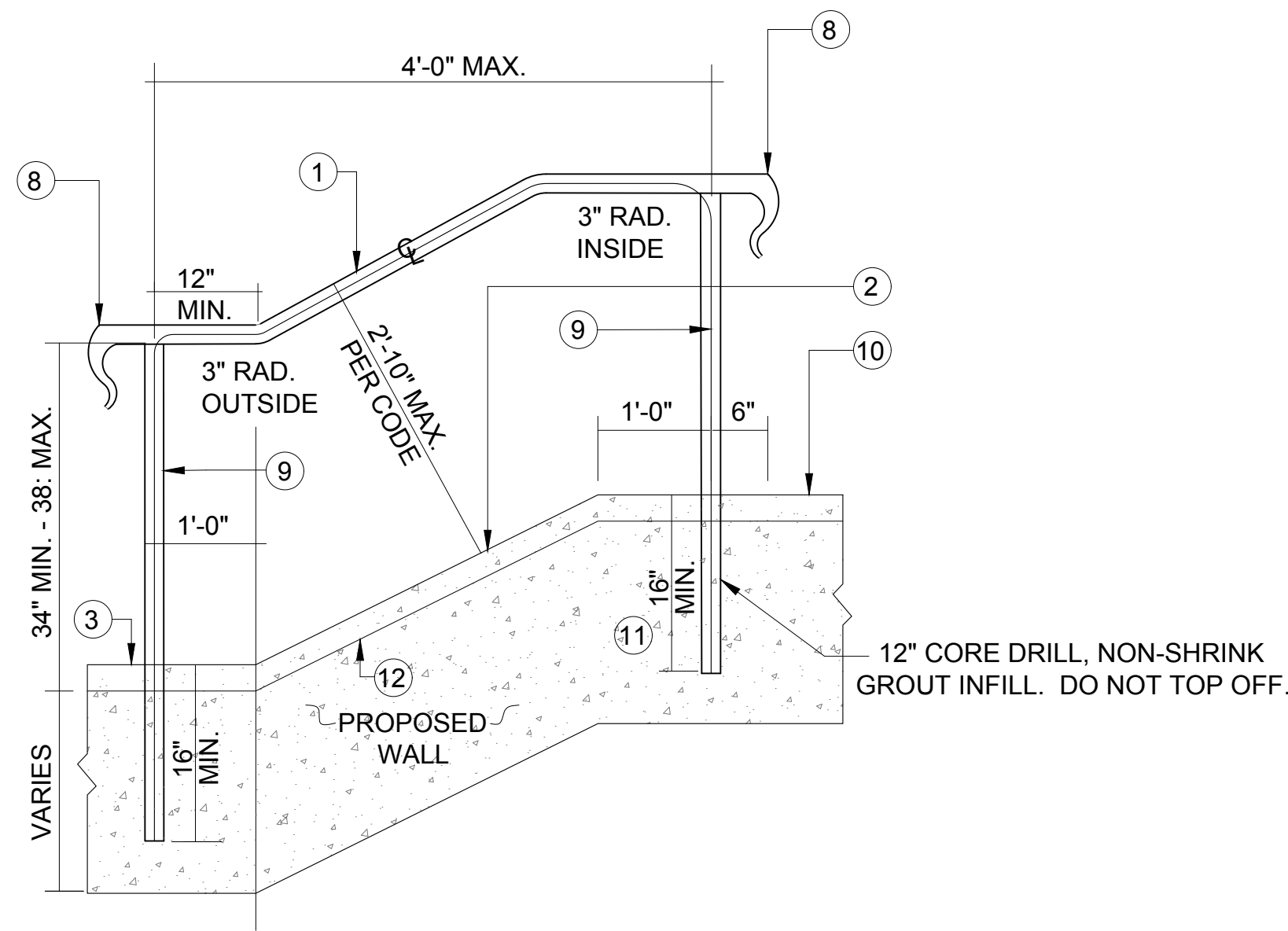
CITY OF THOUSAND OAKS  
 PUBLIC WORKS DEPARTMENT  
**GRADING DETAILS**  
 CONEJO VALLEY CHURCH OF CHRIST  
 2525 E. HILLCREST DRIVE  
 CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET CE-13 OF CE-14

PLANNING SET (NOT FOR CONSTRUCTION) 1-10-19

DETAILS

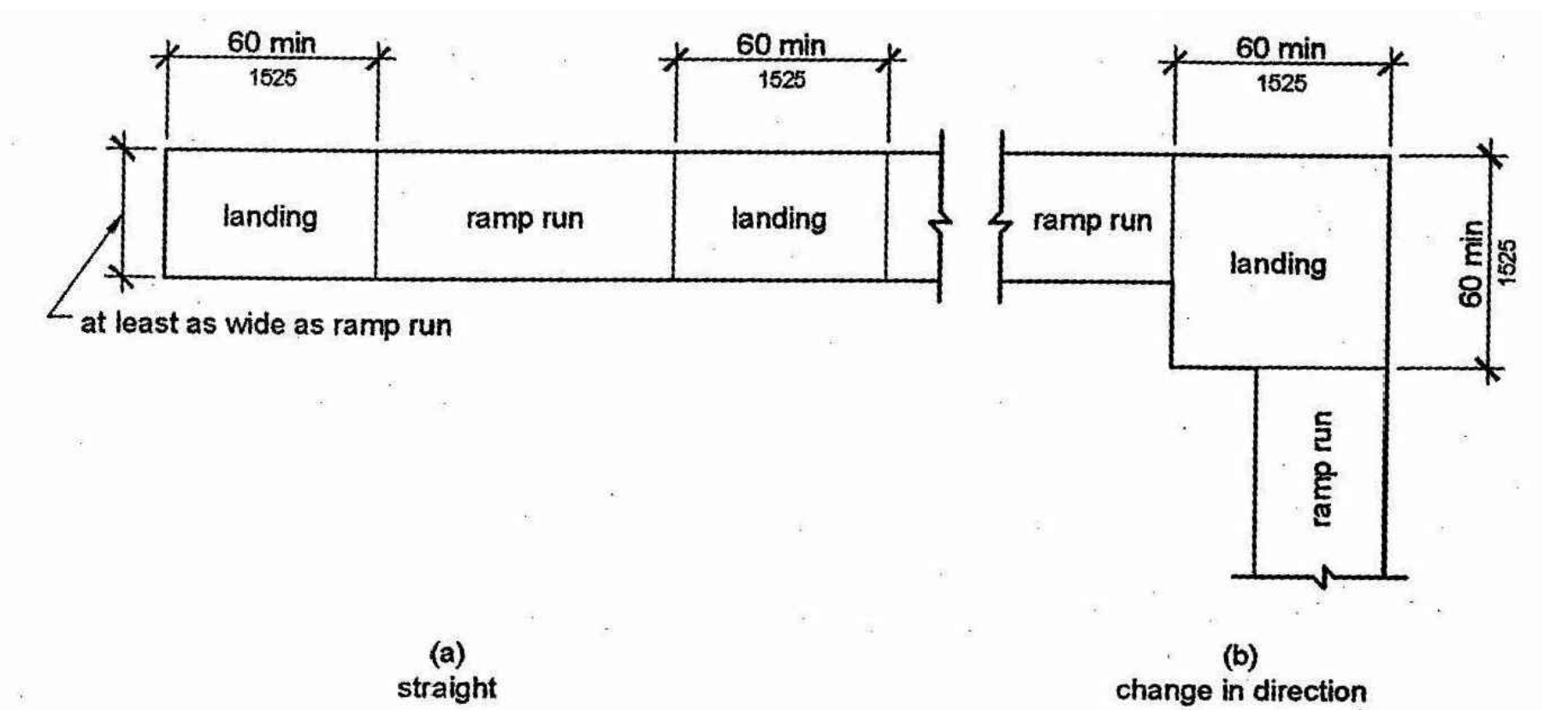


HANDRAIL AT STEPS



HANDRAIL AT RAMPS

- 1 KING ARCH'L 45-905-19 1-3/4" HANDRAIL.
- 2 CONCRETE STEPS PER LANDSCAPE PLANS AND DETAILS.
- 3 ADJOINING PAVING PER LANDSCAPE PLANS AND DETAILS.
- 4 2" CORE DRILL NON SHRINK GROUT INFILL. DO NOT TOP OFF.
- 5 COMPACTED SUB-GRADE PER SOILS REPORT.
- 6 CONCRETE FOOTING 2000 PSI @ 28 DAYS.
- 7 1/2" X 1" CHANNEL.
- 8 KING ARCH'L 81-4429-S MALLEABLE STRAIGHT LAMB'S TONGUE.
- 9 1" X 1" TUBE STEEL.
- 10 RETAINING/LANDSCAPE WALL PER RETAINING WALL PLANS.
- 11 16" MINIMUM EMBEDMENT WITHIN RETAINING WALL PER DETAIL HEREON.
- 12 PROPOSED RAMP WALKING SURFACE. SURFACE SLOPE AND WALL HEIGHT VARIES PER PLAN.



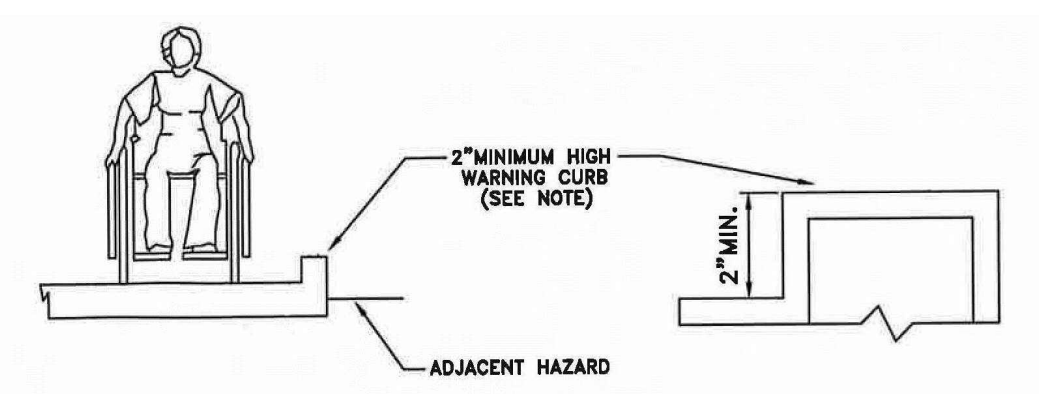
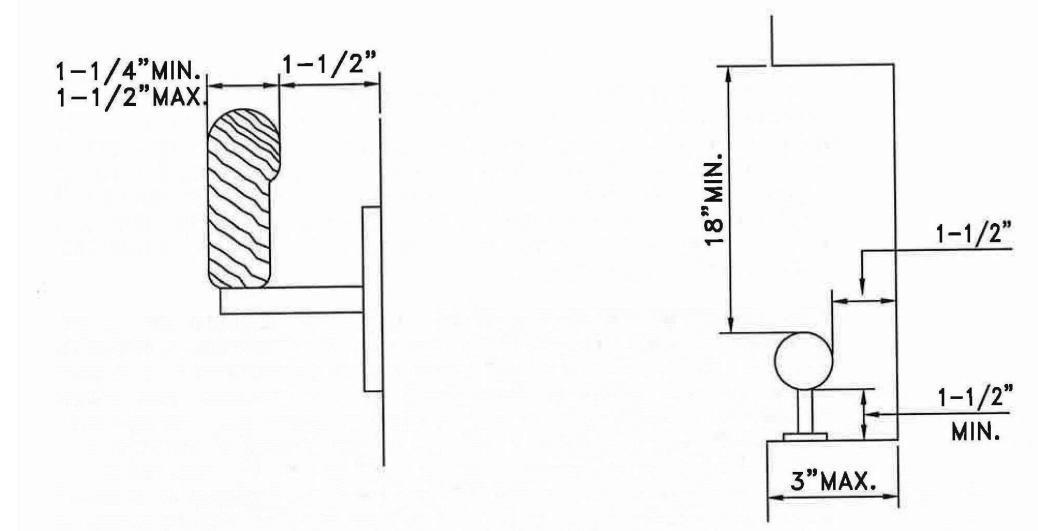
(a) straight

(b) change in direction

NOTE: DETAIL PER CALIFORNIA DISABLED ACCESSIBILITY GUIDEBOOK. (CalDAG), 2001 EDITION.

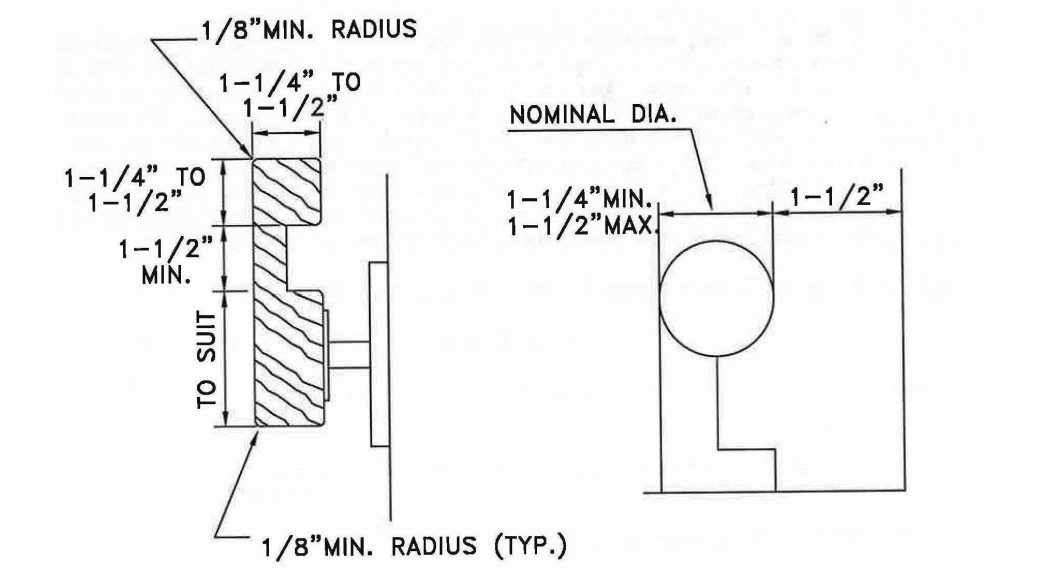
B ADA RAMP LANDINGS  
CE-12 N.T.S.

A HANDRAIL DESIGN AND CONNECTION  
CE-12 N.T.S.



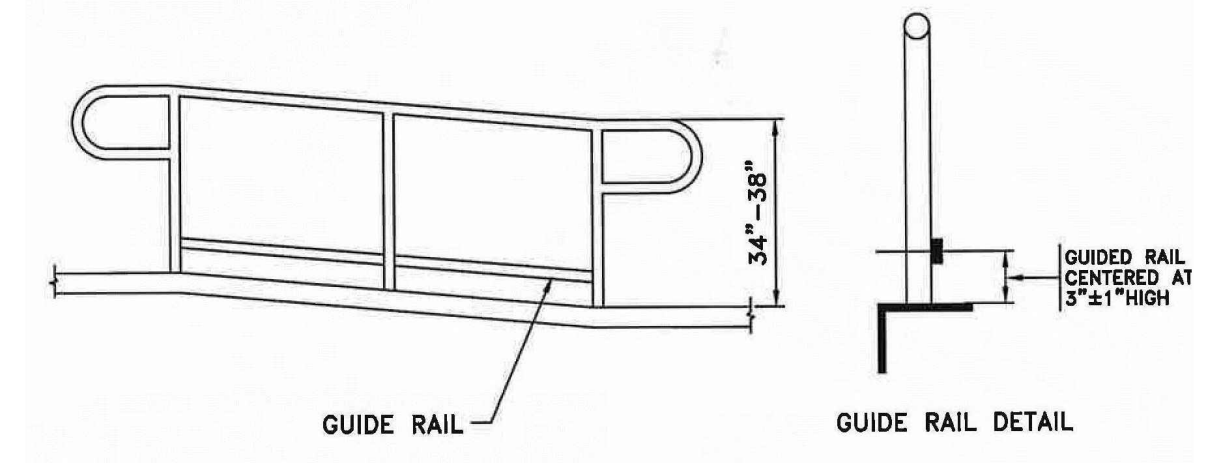
NOTE: IF A DROP-OFF OF MORE THAN 4 INCHES EXISTS BETWEEN THE RAMP SURFACE AND THE ADJACENT GRADE, A 6 INCH WARNING CURB MUST BE UTILIZED.

WARNING CURB EDGE PROTECTION



NOTE: DETAIL PER CALIFORNIA DISABLED ACCESSIBILITY GUIDEBOOK. (CalDAG), 2001 EDITION.

C STAIR HANDRAILS  
CE-12 N.T.S.



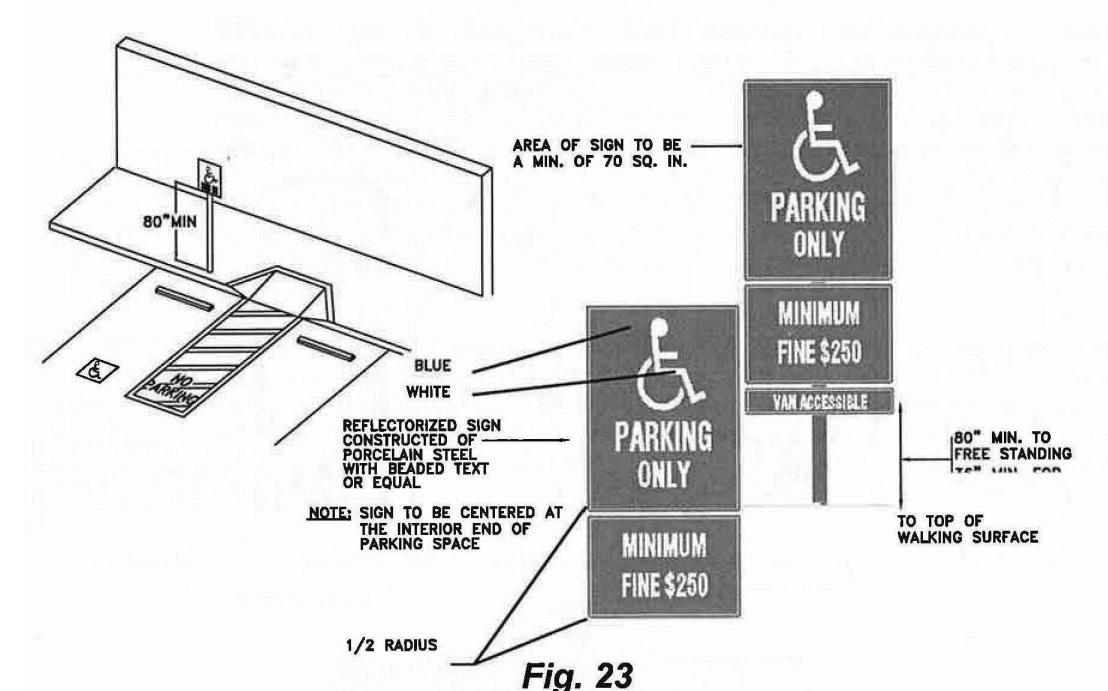
GUIDE RAIL EDGE PROTECTION

NOTE: DETAIL PER CALIFORNIA DISABLED ACCESSIBILITY GUIDEBOOK. (CalDAG), 2001 EDITION.

D GUIDE RAIL EDGE PROTECTION  
CE-12 N.T.S.

**General** -Each parking space reserved for persons with disabilities shall be identified by a reflectorized sign permanently posted immediately adjacent to and visible from each stall or space, consisting of a profile view of the International Symbol of Accessibility in white on a dark blue background. Such signs may also be centered on the wall at the interior end of the parking space. 1129B.4 4.6.4 Fig. 23

- A. Signage is installed at each space. 1129B.4 4.6.4 Fig. 23
- B. Area of the sign(s) is not smaller than 70 square inches. 1129B.4 Fig. 23
- C. When posted in a path of travel, the bottom of the sign is 60" minimum from the parking space finished grade. 1129B.4 Fig. 23
- D. The sign is located where there is an unobstructed view of the sign from the parking space. 1129B.4 4.6.4 Fig. 23
- E. Van accessible parking spaces have an additional sign or additional language stating "Van Accessible" mounted below the Symbol of Accessibility. 1129B.4 4.6.4 Fig. 23
- F. An additional sign or addition language below the symbol of accessibility shall state "Minimum Fine \$250.00" 1129B.4 Fig. 23

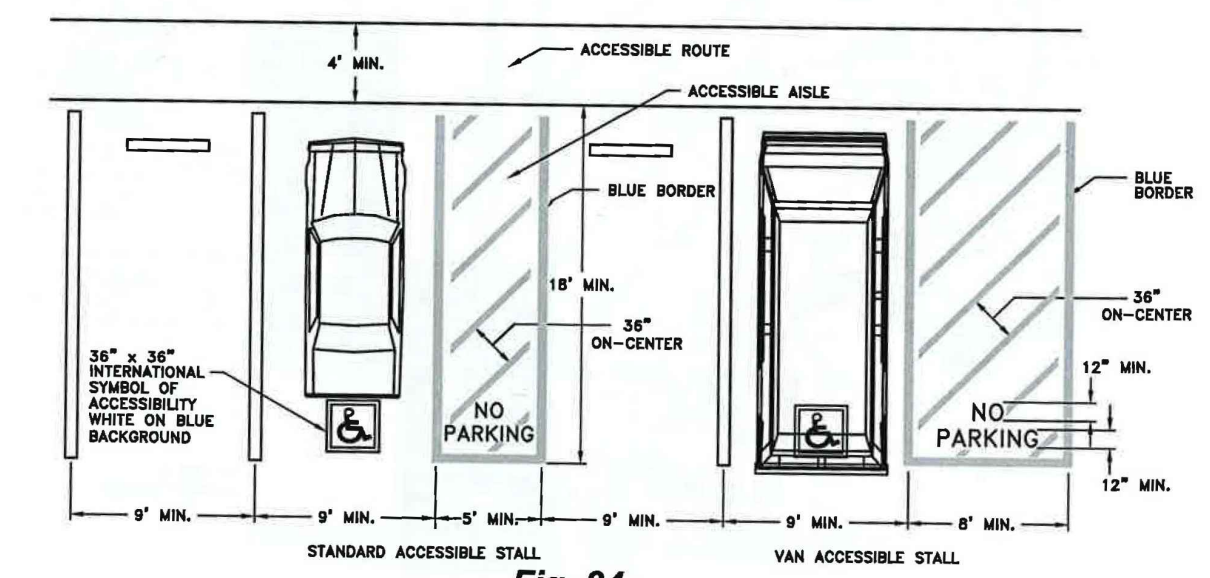


NOTE: DETAIL PER CALIFORNIA DISABLED ACCESSIBILITY GUIDEBOOK. (CalDAG), 2001 EDITION.

E PARKING SPACE SIGNAGE  
CE-12 N.T.S.

**General** -The surface of each accessible parking stall or space must have a surface identification duplicating either of the following schemes:

- (a) By outlining or painting the stall or space in blue and outlining on the ground in the stall or space in white or suitable contrasting color a profile view depicting a wheelchair with occupant;
  - OR
  - (b) By outlining a profile view of a wheelchair with occupant in white on blue background. The profile view shall be located so that it is visible to a traffic enforcement officer when a vehicle is properly parked in the space and shall be 36" high by 36" wide. 1129B.4 4.6.4 Figs. 20-24
- A. Surface identification of accessible parking stalls complies with one of the above noted striping configurations. 1129B.4 4.6.4 Figs. 20-24
  - B. The loading and unloading access aisle is marked by a border that is painted blue. 1129B.3 Fig. 24
  - C. Within the blue border, hatched lines that are a maximum of 36" on center are painted with a color that contrasts with the parking surface, preferably blue or white. 1129B.3 Fig. 24
  - D. The words "NO PARKING" are painted in white on the ground within each access aisle. 1129B.3 Fig. 24
  - E. "NO PARKING" letters are a minimum of 12" high and visible to traffic enforcement officials. 1129B.3 Fig. 24



NOTE: DETAIL PER CALIFORNIA DISABLED ACCESSIBILITY GUIDEBOOK. (CalDAG), 2001 EDITION.

F PARKING SPACE STRIPING  
CE-12 N.T.S.

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PREPARED BY:

**RJR ENGINEERING GROUP**  
 Planning - Civil Engineering - Flood Control/Hydrology  
 Geotechnical Engineering - Stormwater - Water Quality  
 2340 Palma Dr., Suite 200, Ventura, CA 93003  
 (805) 485-3935 (805) 485-6496 FAX  
 E-mail: rjr@rjreng.com

REVIEWED FOR PERMIT ISSUANCE BY:	CITY OF THOUSAND OAKS
DEVELOPMENT ENGINEER	DATE
PLANNING DIVISION	DATE
<TRAFFIC ENGINEER>	DATE
<BLDG. DIVISION - ADA COMPLIANCE>	DATE
<COSCA>	DATE

CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT

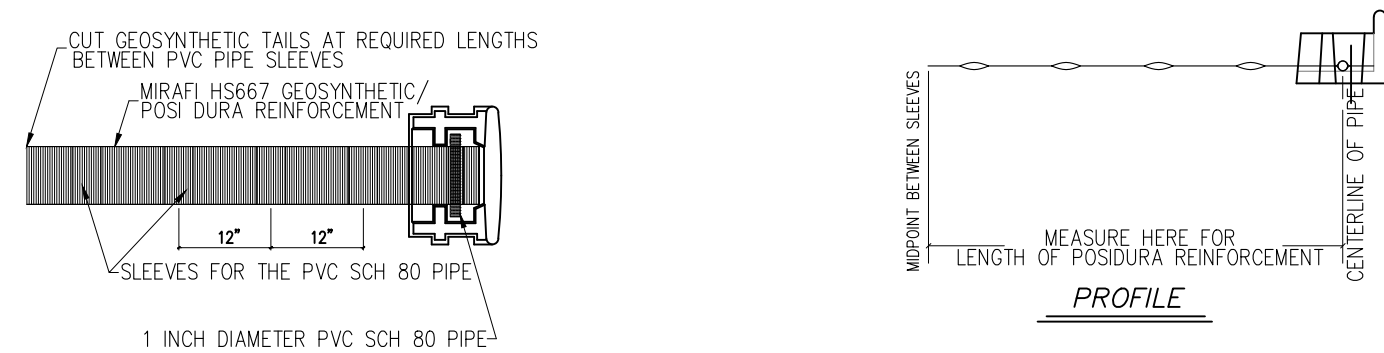
GRADING DETAILS

CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE

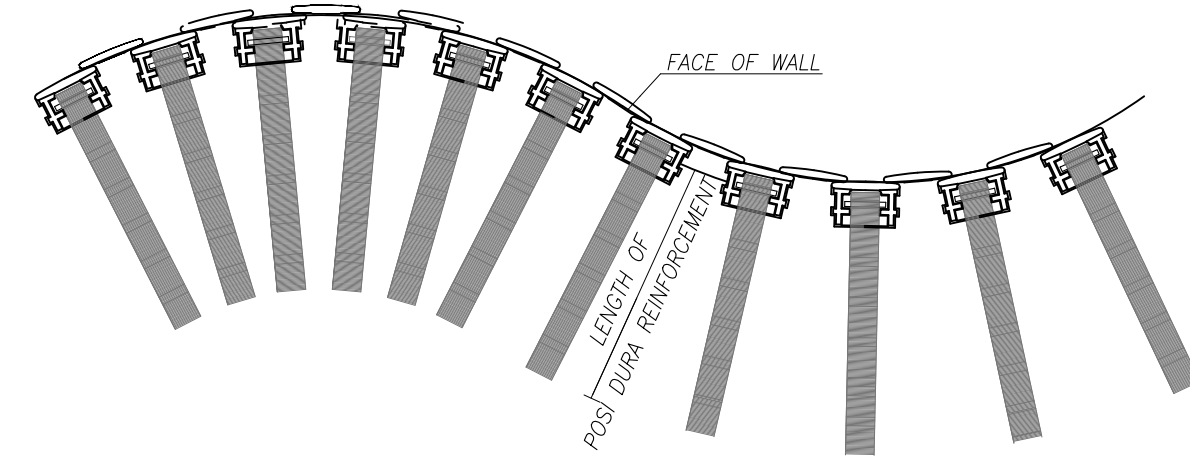
CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET CE-12 OF CE-14

# VERDURA™ BLOCK SYSTEM

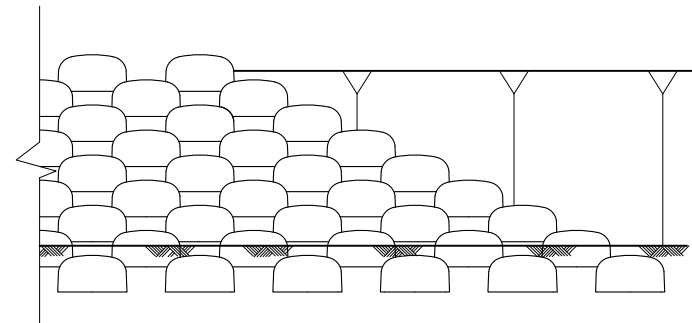
SOIL RETENTION PRODUCTS, INC.



PLAN VIEW

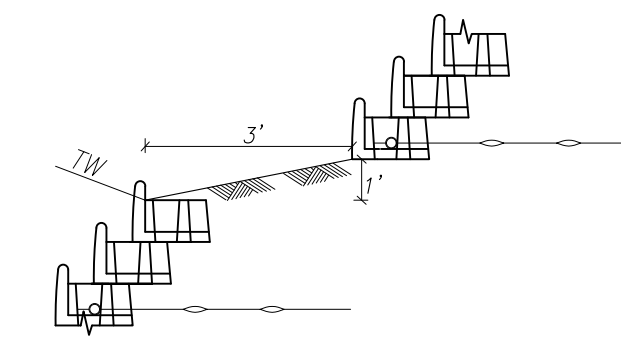
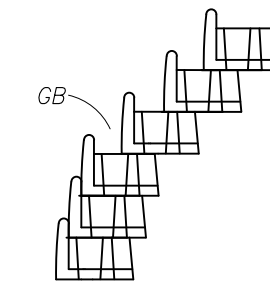


**A** VERDURA-40 BLOCK REINFORCEMENT DETAILS  
14 N.T.S.

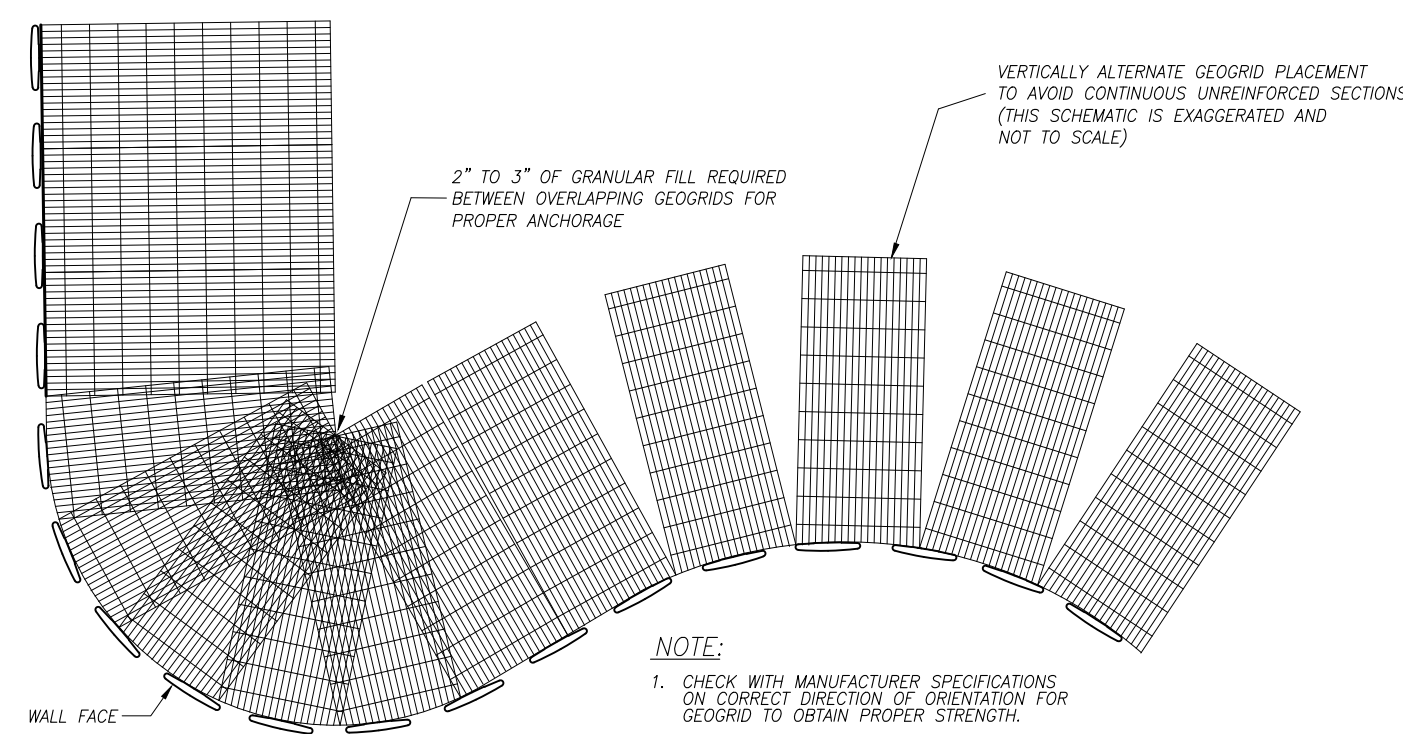


**D** END OF WALL TRANSITION DETAIL (CASE B)  
14 N.T.S.

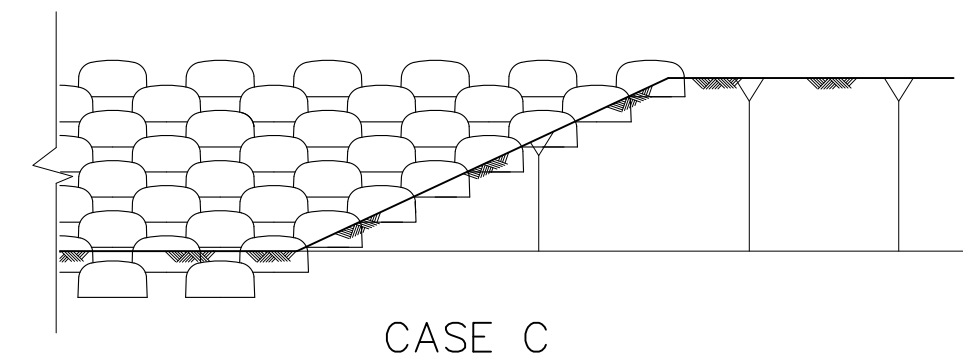
NOTE: ADJUST BLOCK SETTING FROM FACE TO CORRESPONDING SLOPE GRADE BREAKS AS ILLUSTRATED BELOW



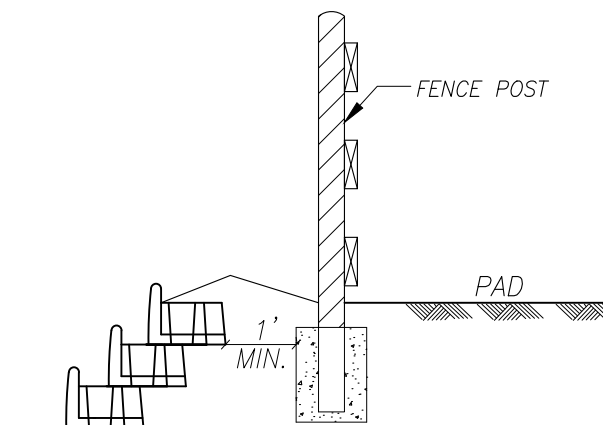
**G** TOP OF SLOPE FACING DETAIL  
14 N.T.S.



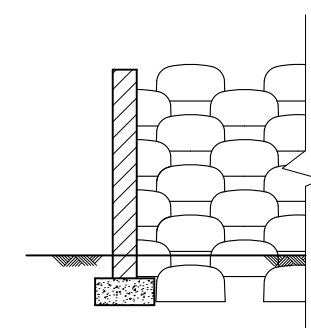
**B** VERDURA-40 BLOCK REINFORCEMENT DETAILS  
14 N.T.S.



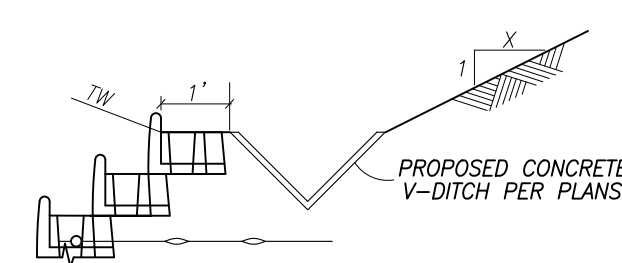
**E** END OF WALL TRANSITION DETAIL (CASE C)  
14 N.T.S.



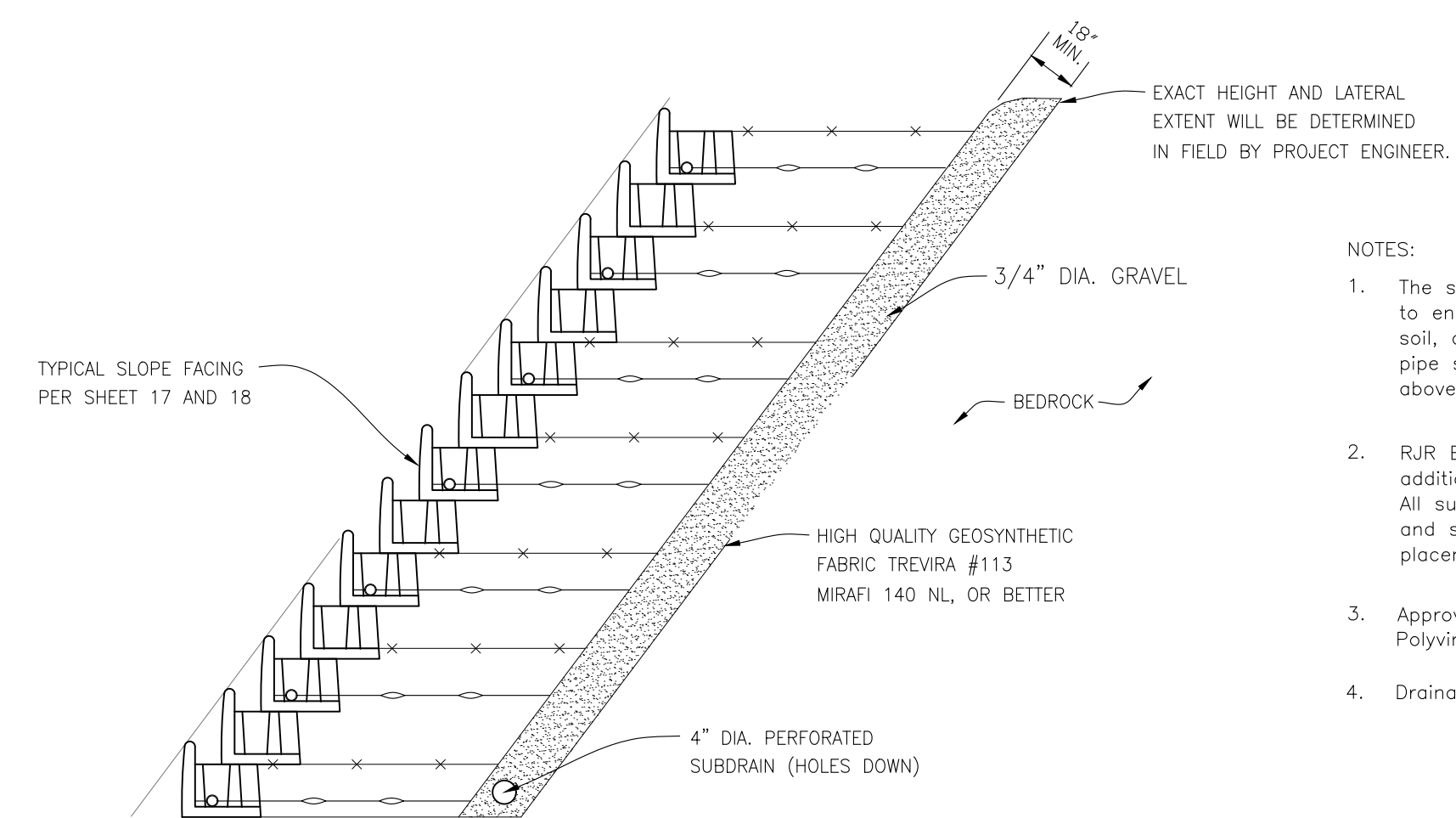
**H** TOP OF SLOPE FACING DETAIL  
14 N.T.S.



**C** END OF WALL TRANSITION DETAIL (CASE A)  
14 N.T.S.



**F** TOP OF SLOPE FACING DETAIL  
14 N.T.S.



NOTES:

- The subdrains should outlet to an appropriate discharge location to ensure that discharge will not scour or erode the surrounding soil, and the pipe will not become damaged or clogged. The outlet pipe should be a solid pipe that meets specifications set forth above for the subdrain pipe.
- RJR Engineering Group may, upon review of field conditions, recommend additional drain lines or revise line, grade, or material specifications. All subdrains should be surveyed for line and grade after installation, and sufficient time should be allowed for this survey, prior to the placement of backfill materials over the subdrain.
- Approved pipes: ASTM D3034 or SDR35 or ASTM D1785 Schedule 40 Polyvinyl Chloride plastic pipe (PVC).
- Drainage Material Specification: clean 3/4" rock or meet spec below:

Sieve Size	% Passing
1 - 1/2"	88 - 100
1"	5 - 40
3/4"	0 - 12
3/8"	0 - 7
No. 200	0 - 3

**I** SLOPE FACING CURTAIN DRAIN DETAIL (TYP.)  
14 N.T.S.



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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE

DESIGNED BY:	RHH	1/10/19
DRAWN BY:	RHH	1/10/19
CHECKED BY:	RWA	1/10/19



ENGINEER'S SEAL

PREPARED BY:



**RJR ENGINEERING GROUP**  
Planning • Civil Engineering • Flood Control/Hydrology  
Geotechnical Engineering • Stormwater • Water Quality  
2340 Palma Dr., Suite 200, Ventura, CA 93003  
(805) 485-3935 (805) 485-6496 FAX  
E-mail: rjr@rjreng.com

REGISTERED ENGINEER

C-58383  
RCE NUMBER

REVIEWED FOR PERMIT ISSUANCE BY: CITY OF THOUSAND OAKS	
DEVELOPMENT ENGINEER	DATE
PLANNING DIVISION	DATE
<TRAFFIC ENGINEER>	DATE
<BLDG. DIVISION - ADA COMPLIANCE>	DATE
<COSCA>	DATE

CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT

GRADING DETAILS

CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE

CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_

SHEET CE-14 OF CE-14

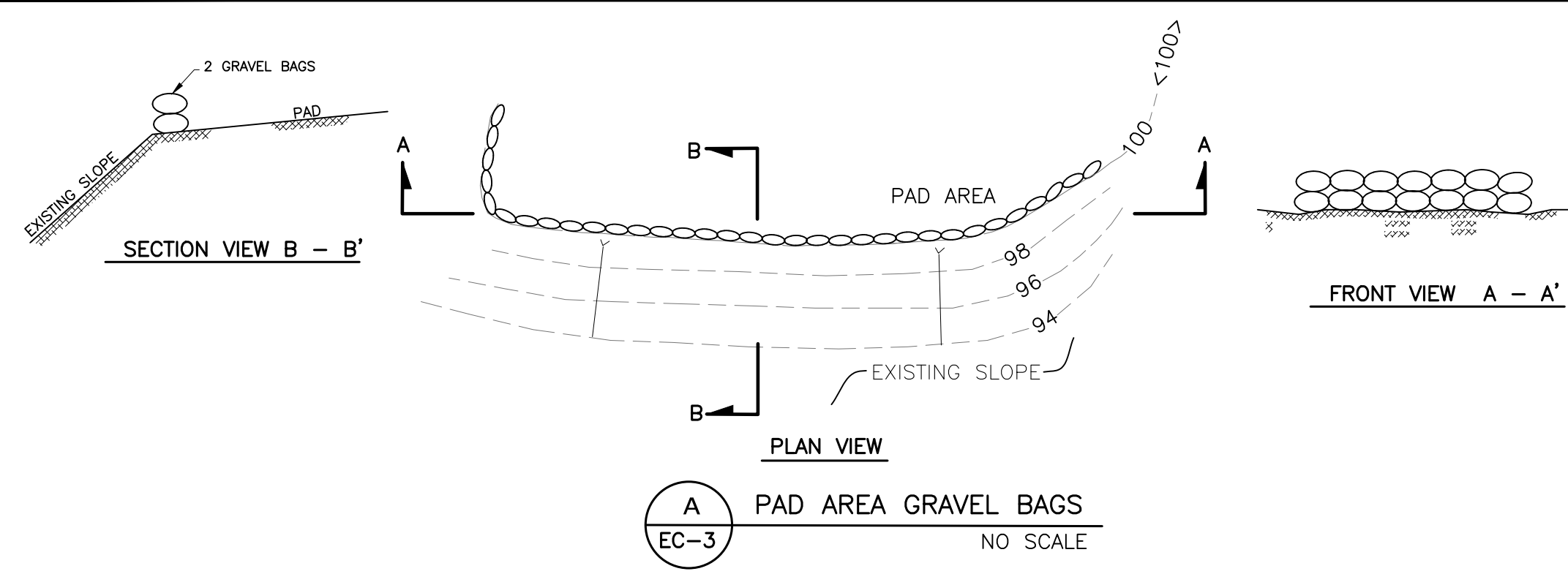
PLANNING SET (NOT FOR CONSTRUCTION) 1-10-19

DETAILS

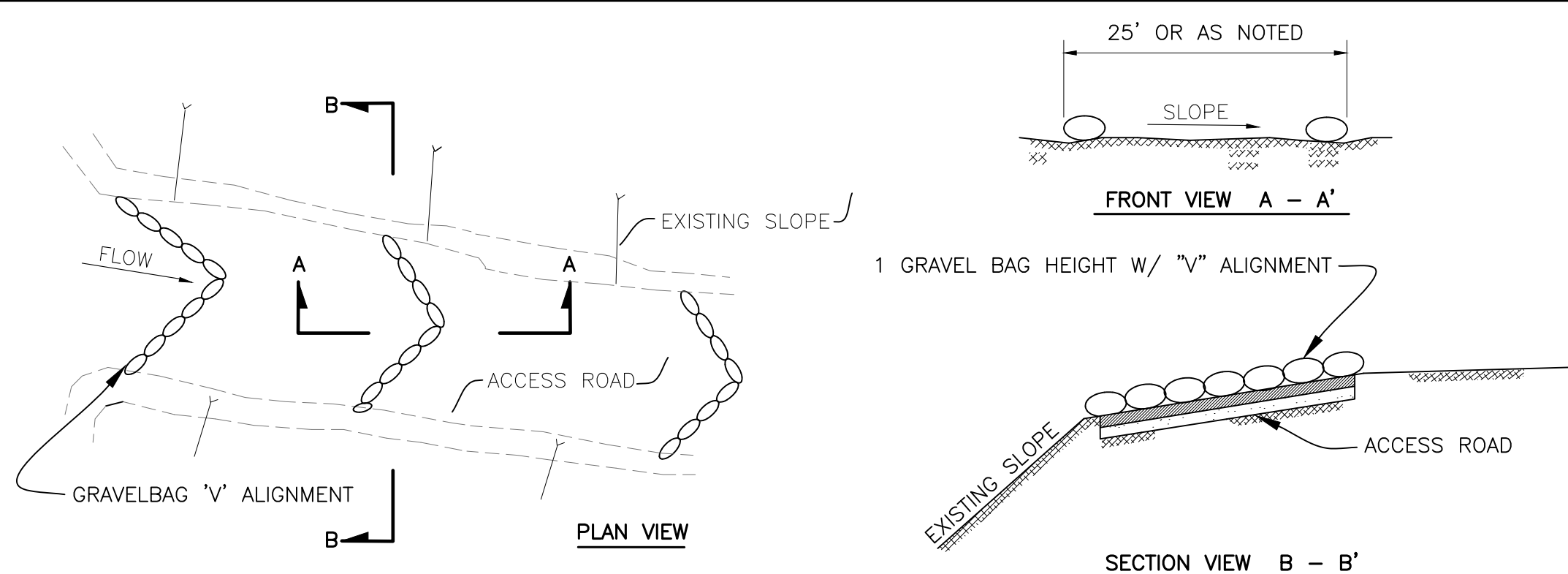




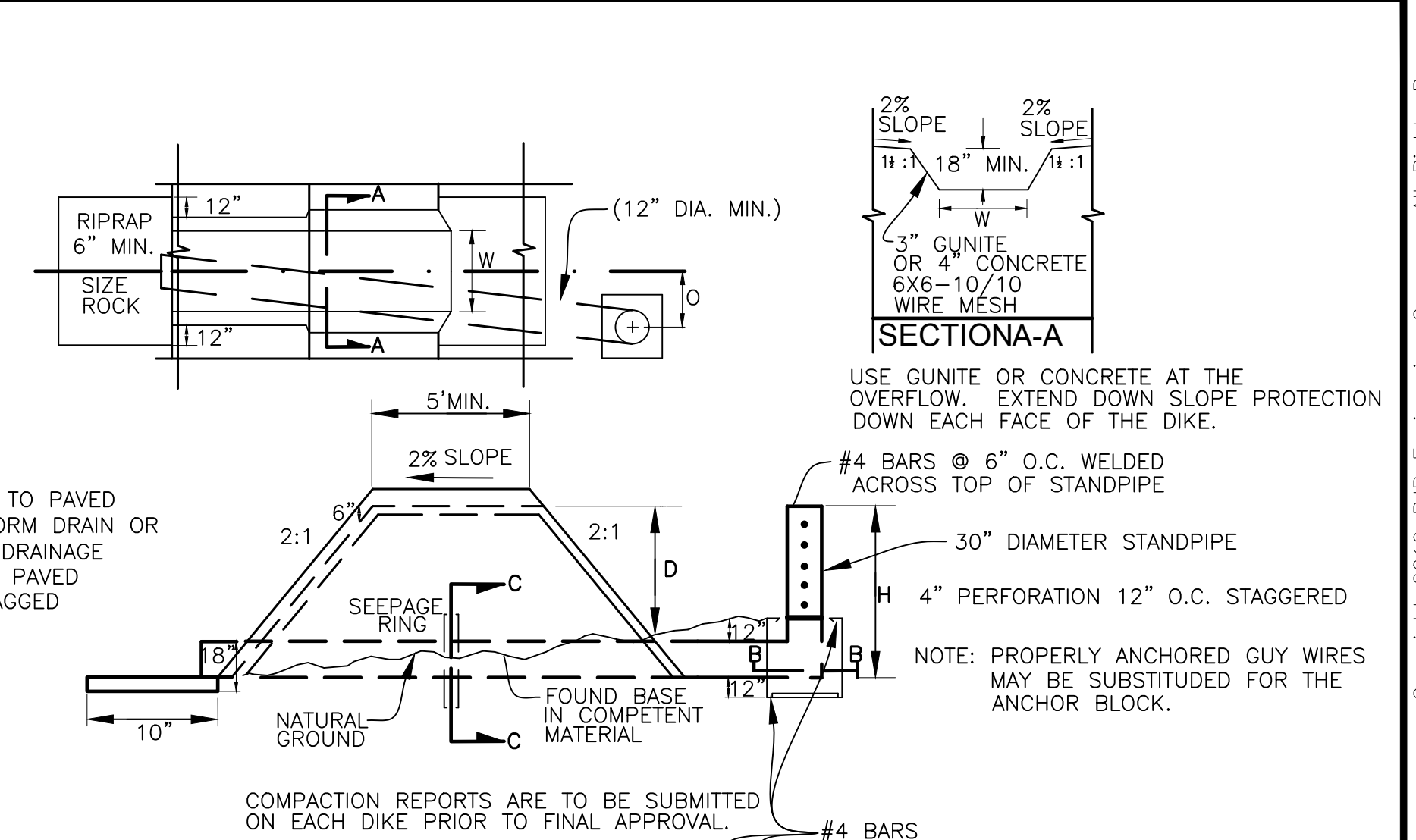




**A** PAD AREA GRAVEL BAGS  
EC-3 NO SCALE



**D** ACCESS ROAD PROTECTION  
EC-3 NO SCALE



**G** TEMPORARY SILTATION BASIN (AS NECESSARY)  
EC-3 NO SCALE

**DESILTING BASIN DESIGN CRITERIA**

1. THE TOP OF THE STANDPIPE MUST BE SET AT THE ELEVATION OF THE TOP OF THE DIKE.
2. THE SPILLWAY MUST BE CONSTRUCTED WITH CONCRETE OR GUNITE WHEN D EXCEEDS 3' OR WHEN THE STORAGE VOLUME EXCEEDS 1 ACRE FOOT (1600 CUBIC YARDS). SANDBAGGED SPILLWAY MAY BE ALLOWED FOR LESSER DEPTHS AND STORAGE VOLUMES DEPENDING ON EXISTING DOWNSTREAM DEVELOPMENT.
3. THE DIKE SHALL BE COMPACTED TO 95% COMPACTION.

NOTE: PROPERLY ANCHORED GUY WIRES MAY BE SUBSTITUED FOR THE ANCHOR BLOCK.

**TYPICAL DRIVEWAY CROSS SECTION**  
DETAIL "A" N.T.S.

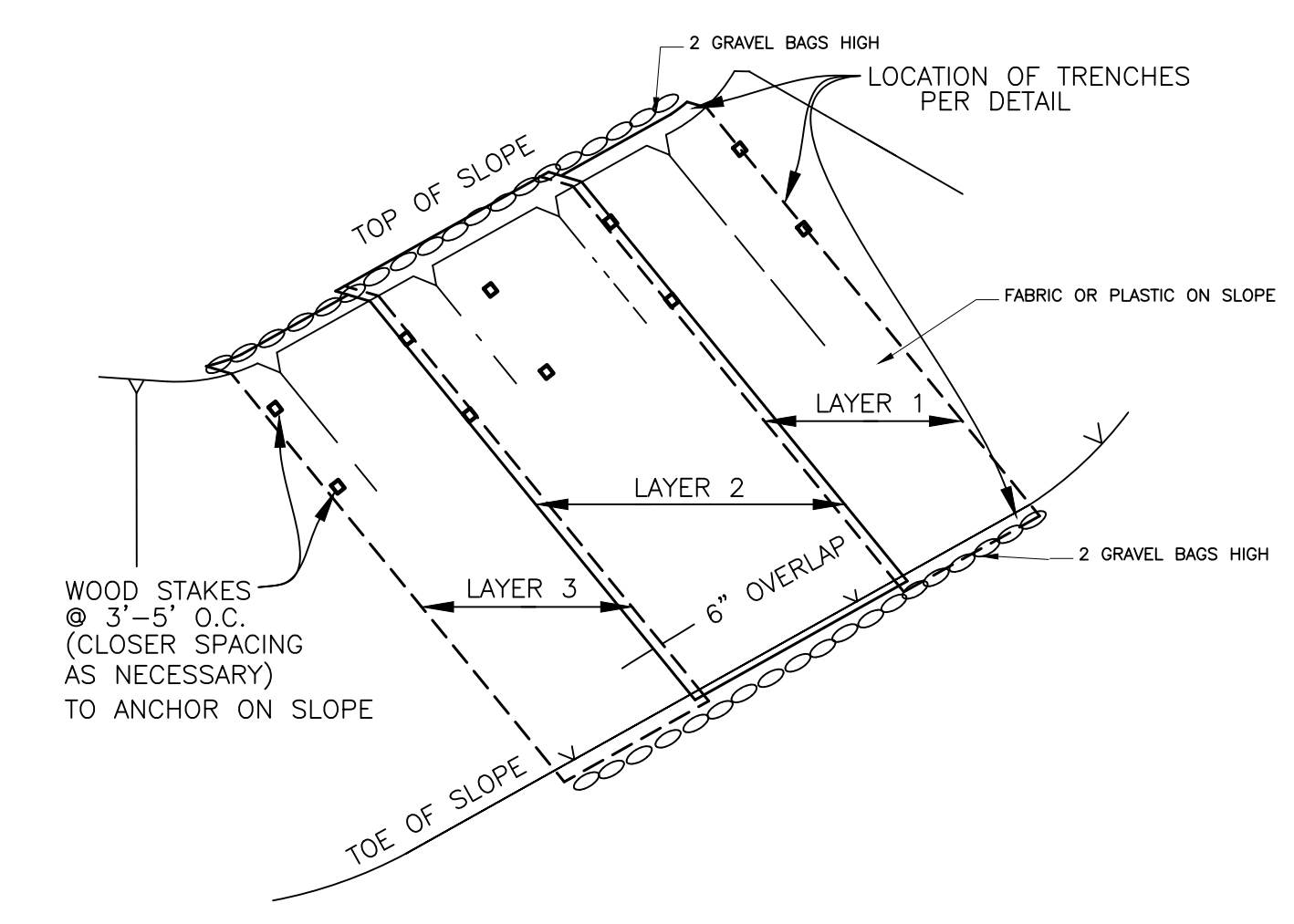
**GRAVEL BAG STACKING DETAIL**  
N.T.S.

**GRAVEL BAG DETAIL**  
DETAIL "B" N.T.S.

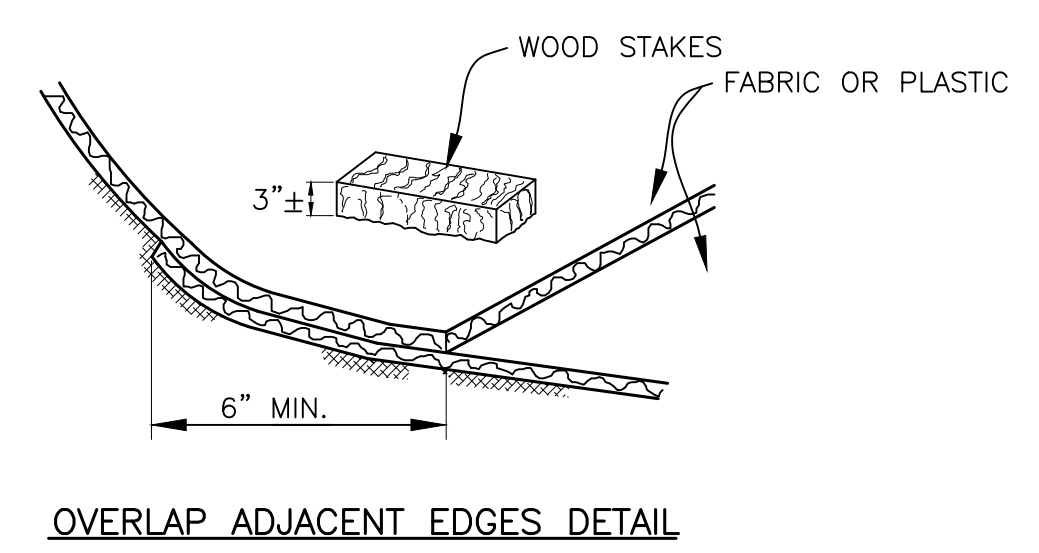
**AREA DRAIN**  
DETAIL "C" N.T.S.

**B** EROSION CONTROL DETAILS FOR PADS  
EC-3 \* SWPPP AND SWPCP FOR CITY OF SOLVANG IS IN EFFECT THROUGHOUT THIS CONSTRUCT.

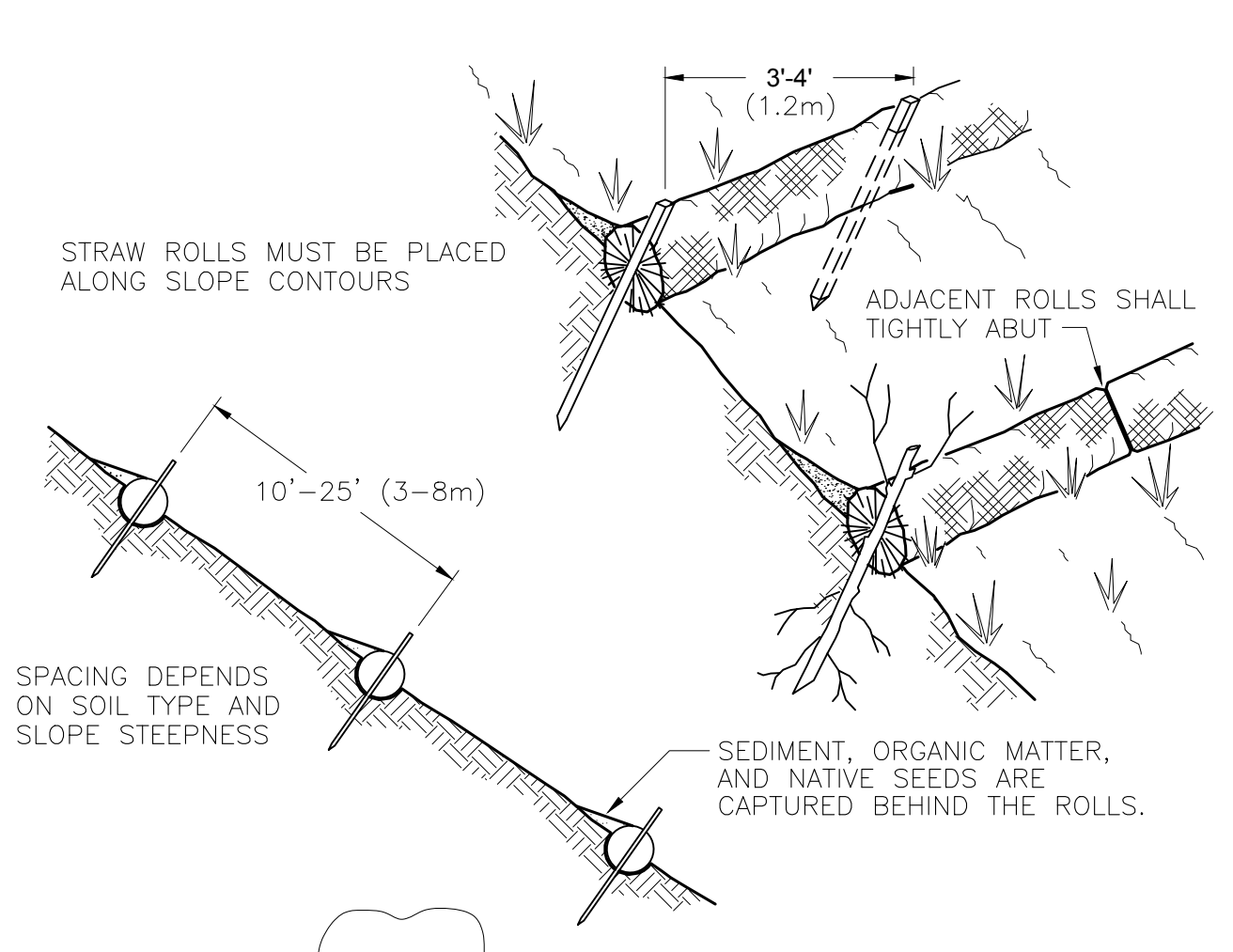
**E** STABILIZED CONSTRUCTION ENTRANCE  
EC-3 NO SCALE



**C** EROSION CONTROL MAT OR PLASTIC SLOPE COVER (UNPLANTED SLOPES)  
EC-3 NO SCALE

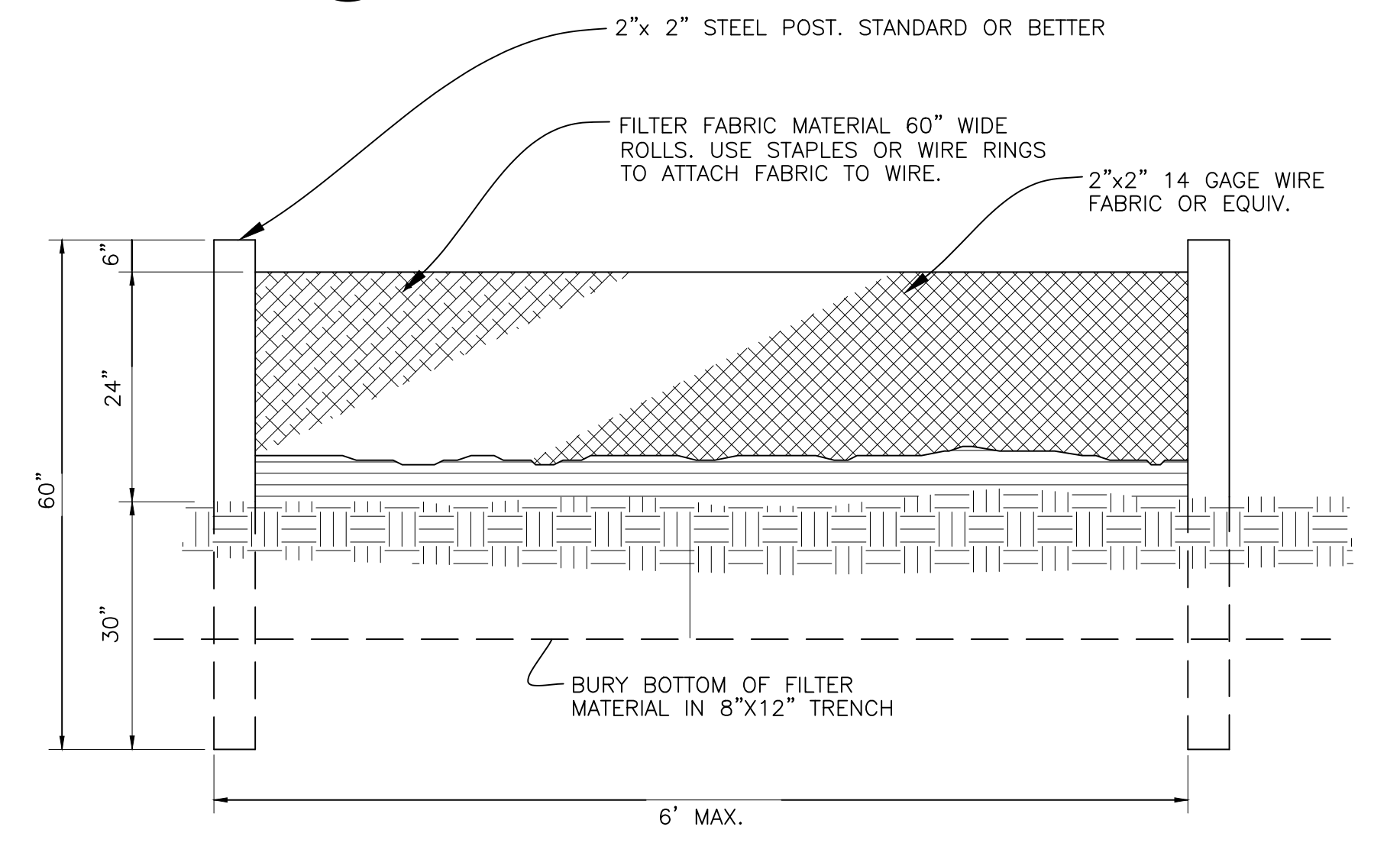


**ANCHOR EDGES OF FABRIC**

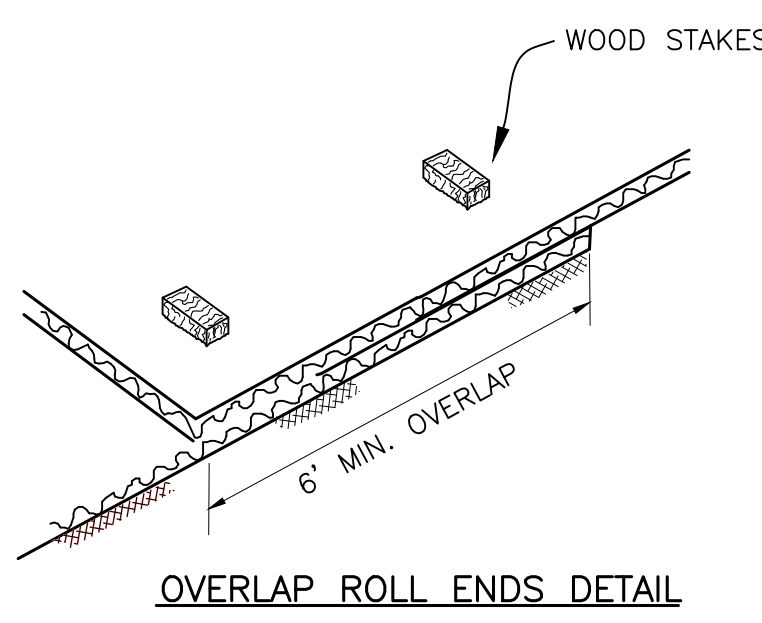


NOTE:  
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" (75-125mm) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

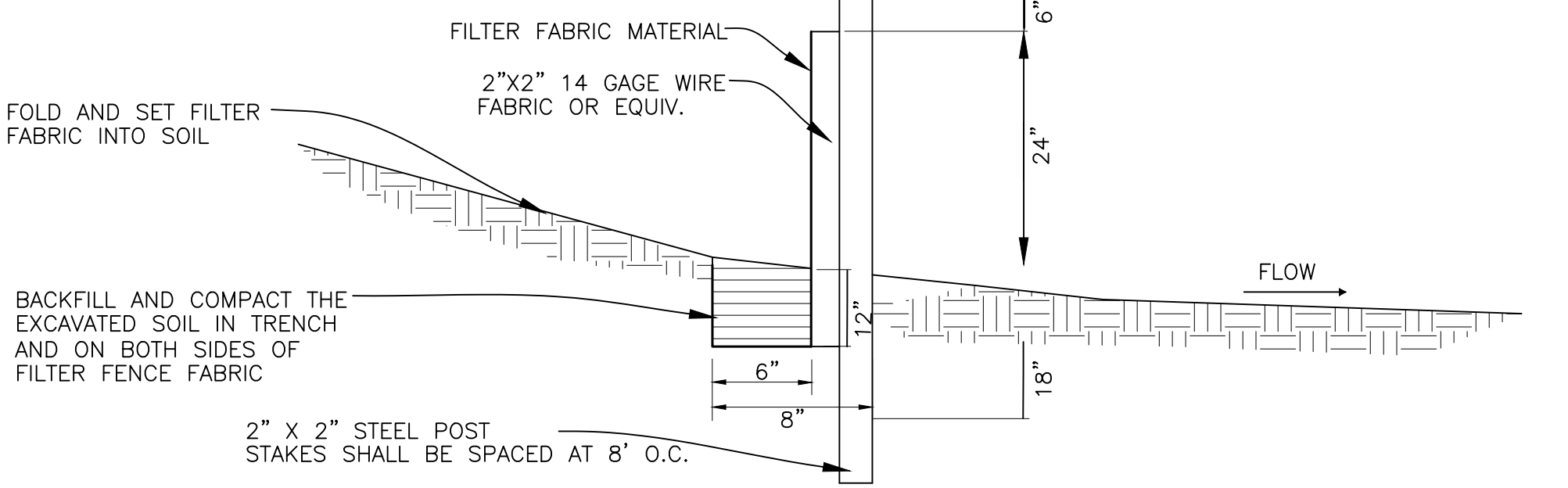
**F** STRAW WATTLES PLACEMENT  
EC-3 NO SCALE



**H** SILT FENCE DETAIL  
EC-3 NO SCALE



**OVERLAP ROLL ENDS DETAIL**



**H** SILT FENCE DETAIL  
EC-3 NO SCALE

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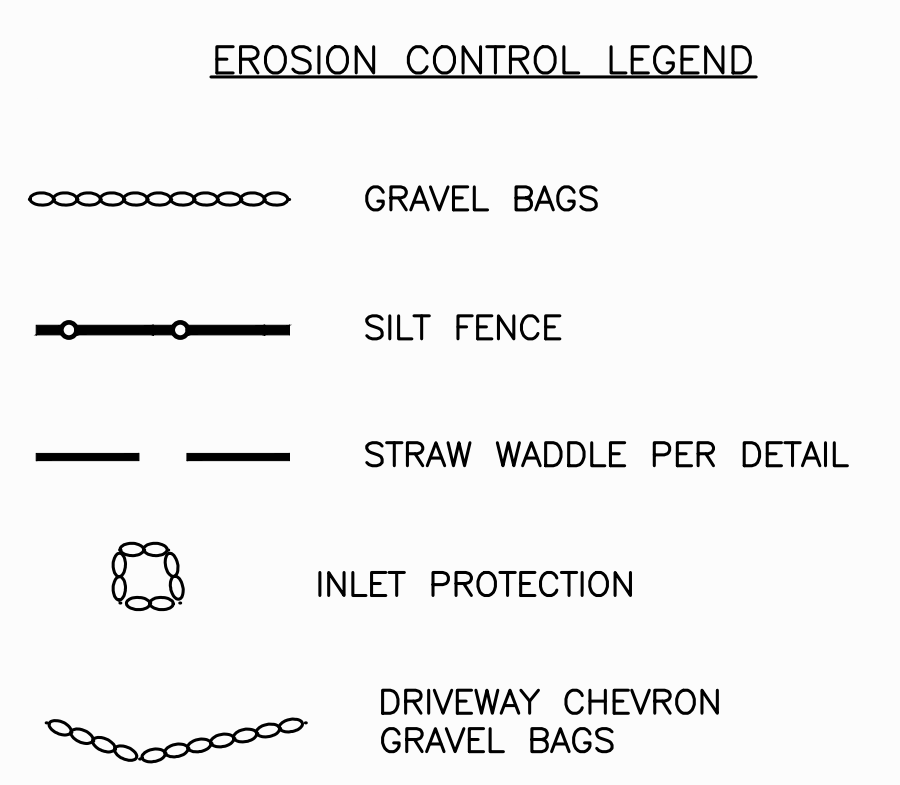
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DEVELOPMENT ENGINEER	DATE
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<TRAFFIC ENGINEER>	DATE
<BLDG. DIVISION - ADA COMPLIANCE>	DATE
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CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT

**ESCP DETAILS**

CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE

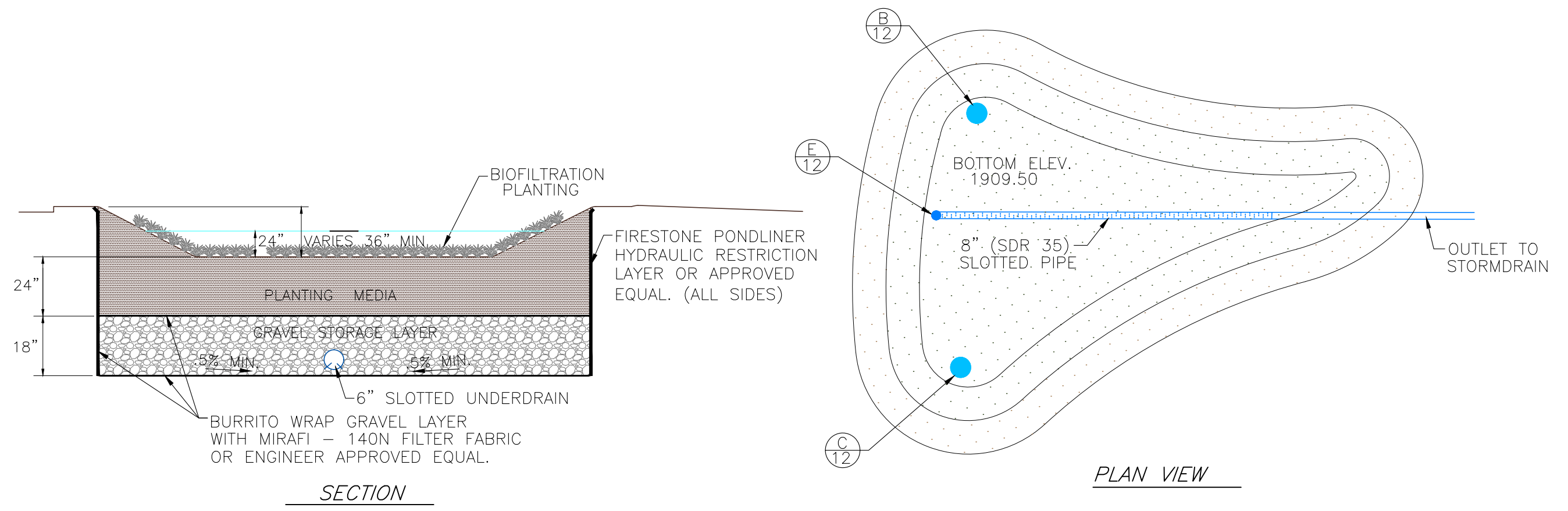
CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET SW3 OF SW4



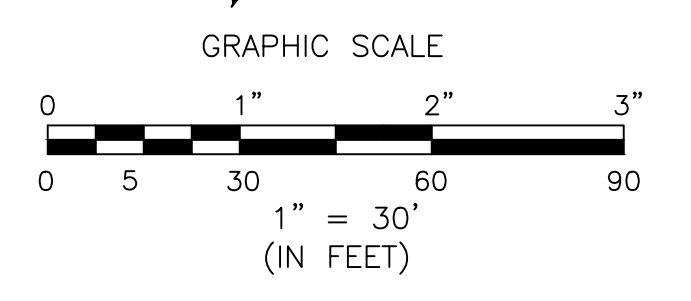
NOTE: ALL AREA DRAIN AND STORM DRAIN INLETS SHALL BE PROTECTED ONCE INSTALLED.

NOTE: SILT FENCES ON ASPHALT SHALL BE PLACED AND FASTENED AGAINST CHAIN LINK FENCE. THE BOTTOM OF THE SILT FENCE FABRIC SHALL BE SECURED IN PLACE WITH GRAVEL BAGS.

NOTE: SILT FENCING SHALL BE INSTALLED DOWN STREAMS OF ANY GRADING WORK CONDUCTED. A PHASED APPROACH IS ACCEPTABLE AND SILT FENCING SHALL EXTEND 10' MIN. LATERALLY OF ANY PROPOSED WORK.



**BIOFILTRATION PLANTER TYPICAL SECTION**  
NTS



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**CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT**

**EROSION AND SEDIMENT CONTROL PLAN**

CONEJO VALLEY CHURCH OF CHRIST  
2525 E. HILLCREST DRIVE

CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET SW-4 OF SW-4

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