

COUNTY OF SANTA CLARA

General Construction Specifications

GENERAL CONDITIONS

- 1. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY... AND DATED... THIS REPORT IS SUPPLEMENTED BY: 1) THESE PLANS AND SPECIFICATIONS...

GRADING

- 1. EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL SITE...

Table with 3 columns: LOCATION, CUT (C.Y.), FILL (C.Y.). Rows include SOIL, BASE ROCK, and TOTAL.

- NOTE: FILL VOLUMES INCLUDE 10% SHRINKAGE. EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP SITE.

CONSTRUCTION STAKING

- 1. THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES...

CONSTRUCTION INSPECTION

- 1. CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.

SITE PREPARATION (CLEARING AND GRUBBING)

- 1. EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE...

UTILITY LOCATION, TRENCHING & BACKFILL

- 1. CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK...

RETAINING WALLS

- 1. REINFORCED CONCRETE AND CONCRETE MASONRY UNIT RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR...

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

- 1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY. 2. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.

TREE PROTECTION

- 1. FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA OR INTERFACES WITH THE LIMITS OF GRADING FOR ALL PROPOSED DEVELOPMENT ON SITE...

ACCESS ROADS AND DRIVEWAYS

- 1. DRIVEWAY LOCATIONS SHALL BE AS SHOWN ON THE IMPROVEMENT PLANS WITH CENTERLINE STATIONING. THE MINIMUM CONCRETE THICKNESS SHALL BE 6 INCHES THROUGHOUT...

STREET LIGHTING

- 1. FACILITY GAS & ELECTRIC ELECTROLIER SERVICE FEE SHALL BE PAID BY THE DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE.

SANITARY SEWER

- 1. THE SANITARY SEWER AND WATER UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.

PORTLAND CEMENT CONCRETE

- 1. CONCRETE USED FOR STRUCTURAL PURPOSES SHALL BE CLASS "A" (6 SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS...

STORM DRAINAGE AND STORMWATER MANAGEMENT

- 1. DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE MAINTENANCE OF THESE FACILITIES...

AS-BUILT PLANS STATEMENT

THIS IS A TRUE COPY OF THE AS-BUILT PLANS, THERE () WERE () WERE NOT) MINOR FIELD CHANGES - MARKED WITH THE SYMBOL (X). THERE () WERE () WERE NOT) PLAN REVISIONS INDICATING SIGNIFICANT CHANGES REVIEWED BY THE COUNTY ENGINEER AND MARKED WITH THE SYMBOL (Δ).

DATE SIGNATURE

NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY ENGINEER TO PERFORM THE INSPECTION WORK. A REPRODUCIBLE COPY OF THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER AFTER CONSTRUCTION.

GEOTECHNICAL ENGINEER OBSERVATION

- 1. A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGIC REPORTS...

COUNTY OF SANTA CLARA DEPT. OF ROADS AND AIRPORTS
ISSUED BY: ENCROACHMENT PERMIT NO. DATE:

COUNTY OF SANTA CLARA
LAND DEVELOPMENT ENGINEERING & SURVEYING
GRADING / DRAINAGE PERMIT NO. ISSUED BY: DATE:

NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY WITHOUT AN ENCROACHMENT PERMIT, INCLUDING THE STAGING OF CONSTRUCTION MATERIAL AND THE PLACEMENT OF PORTABLE TOILETS.

ENGINEER'S STATEMENT

I HEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAP (OR PLAN) AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED FILE(S) NO.

DATE SIGNATURE 94412 R.C.E. NO.

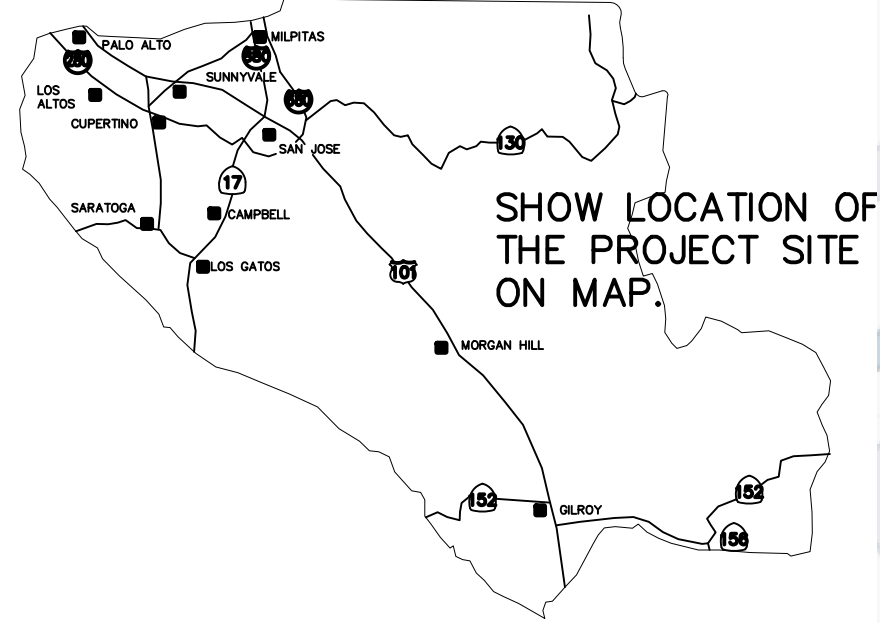


COUNTY ENGINEER'S NOTE

ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERMITTEE OF ENGINEER FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS CONTAINED IN THE PLANS. IF, DURING THE COURSE OF CONSTRUCTION, THE PUBLIC INTEREST REQUIRES A MODIFICATION OF (OR DEPARTURE FROM) THE SPECIFICATIONS OF THE PLANS, THE COUNTY SHALL HAVE THE AUTHORITY TO REQUIRE THE SUSPENSION OF WORK...

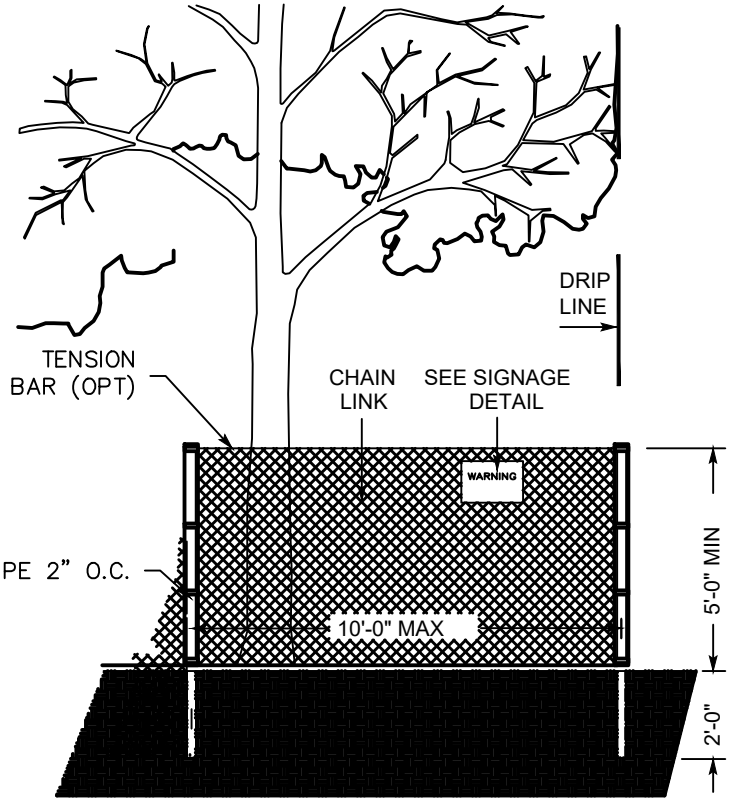
DATE SIGNATURE

R.C.E. NO. EXPIRATION DATE



COUNTY LOCATION MAP

VICINITY MAP N.T.S



EXISTING TREE PROTECTION DETAILS

- 1. PRIOR TO THE COMMENCEMENT OF ANY GRADING, TREE PROTECTIVE FENCING SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION PLAN AND INSPECTED BY A CERTIFIED ARBORIST...

2054 OLD PIEDMONTE ROAD
SAN JOSE, CA 95132

SCOPE OF WORK

- 1. IMPERVIOUS PAVEMENT AND CONCRETE TO REMAIN AND TO BE LEGALIZED. DIRECT WATER RUN-OFF INTO TWO NEW DETENTION/TREATMENT BASINS.

LEGEND

Table with 3 columns: DESCRIPTION, PROPOSED, EXISTING. Rows include PROPERTY BOUNDARY, DIRECTION OF SURFACE DRAINAGE, STORM DRAIN LINE, etc.

SHEET INDEX

Table with 2 columns: Sheet No., Description. Rows include 1 COVER SHEET, 2 DEMOLITION PLAN, 3 GRADING & DRAINAGE PLAN, etc.

ENGINEER'S NAME: YING CHEN

ADDRESS: 1154 PARK AVE, SAN JOSE, CA 95126

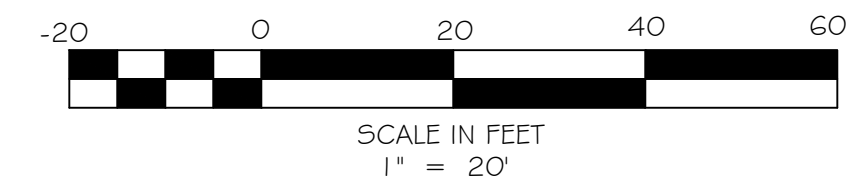
PHONE NO. FAX NO.

Table with 4 columns: Revision, Date, APN, Sheet of. Rows include Revision 1, 2, 3.

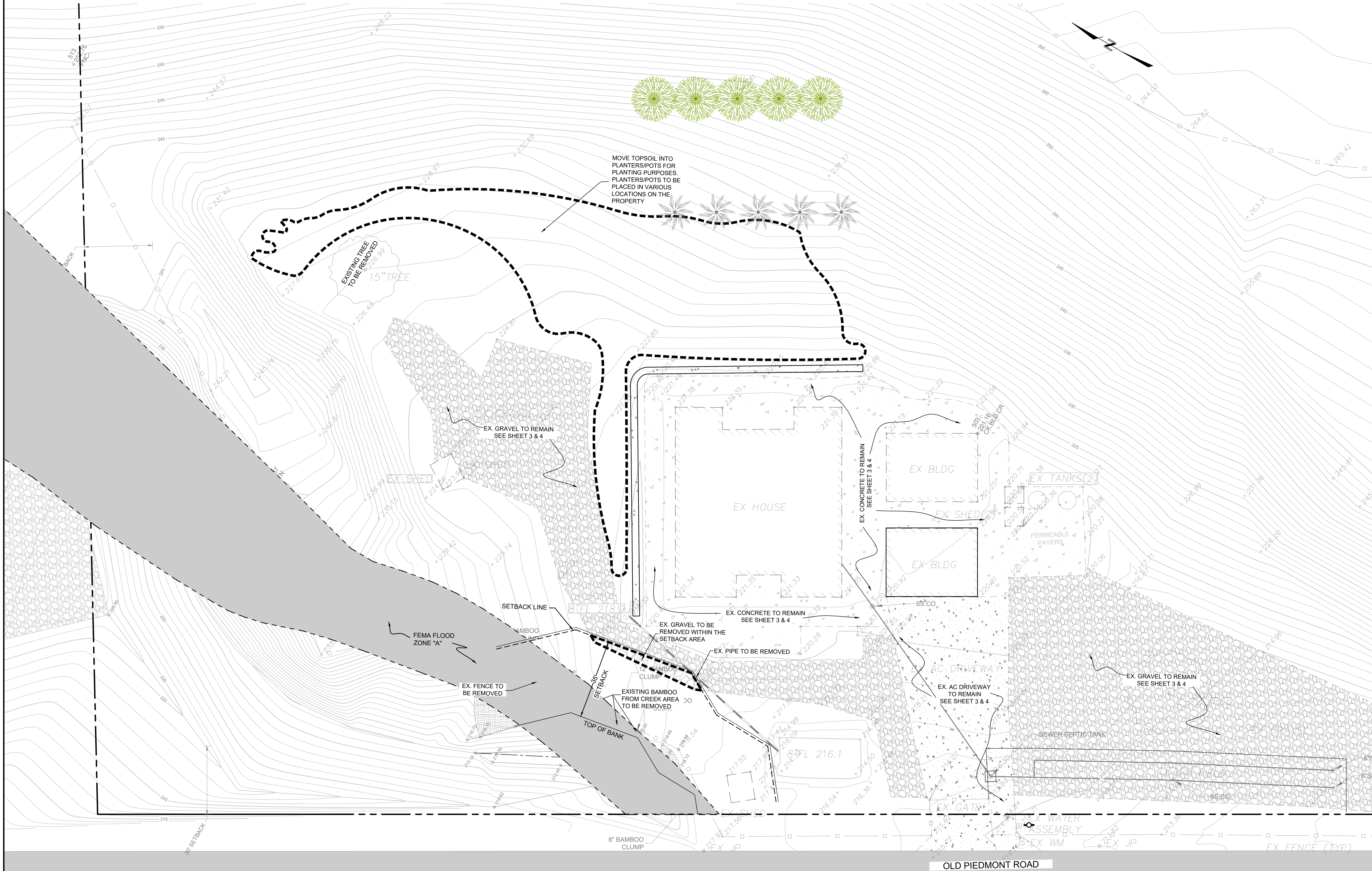
APPLICANT:

ROAD:

COUNTY FILE NO.:



**GRADING PERMIT
PLN23-227
2054 OLD PIEDMONT ROAD
DEMOLITION PLAN**



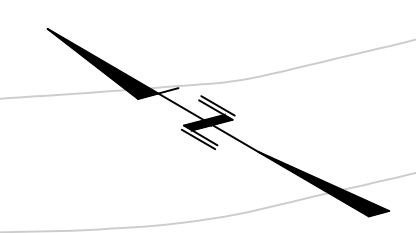
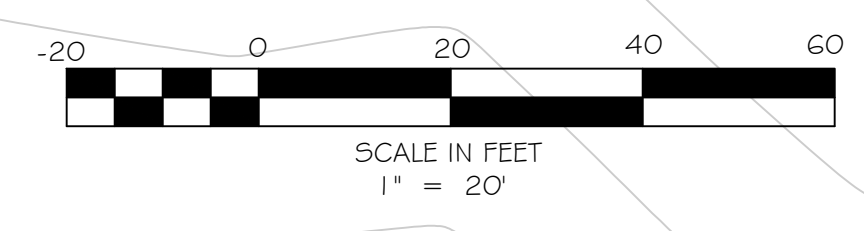
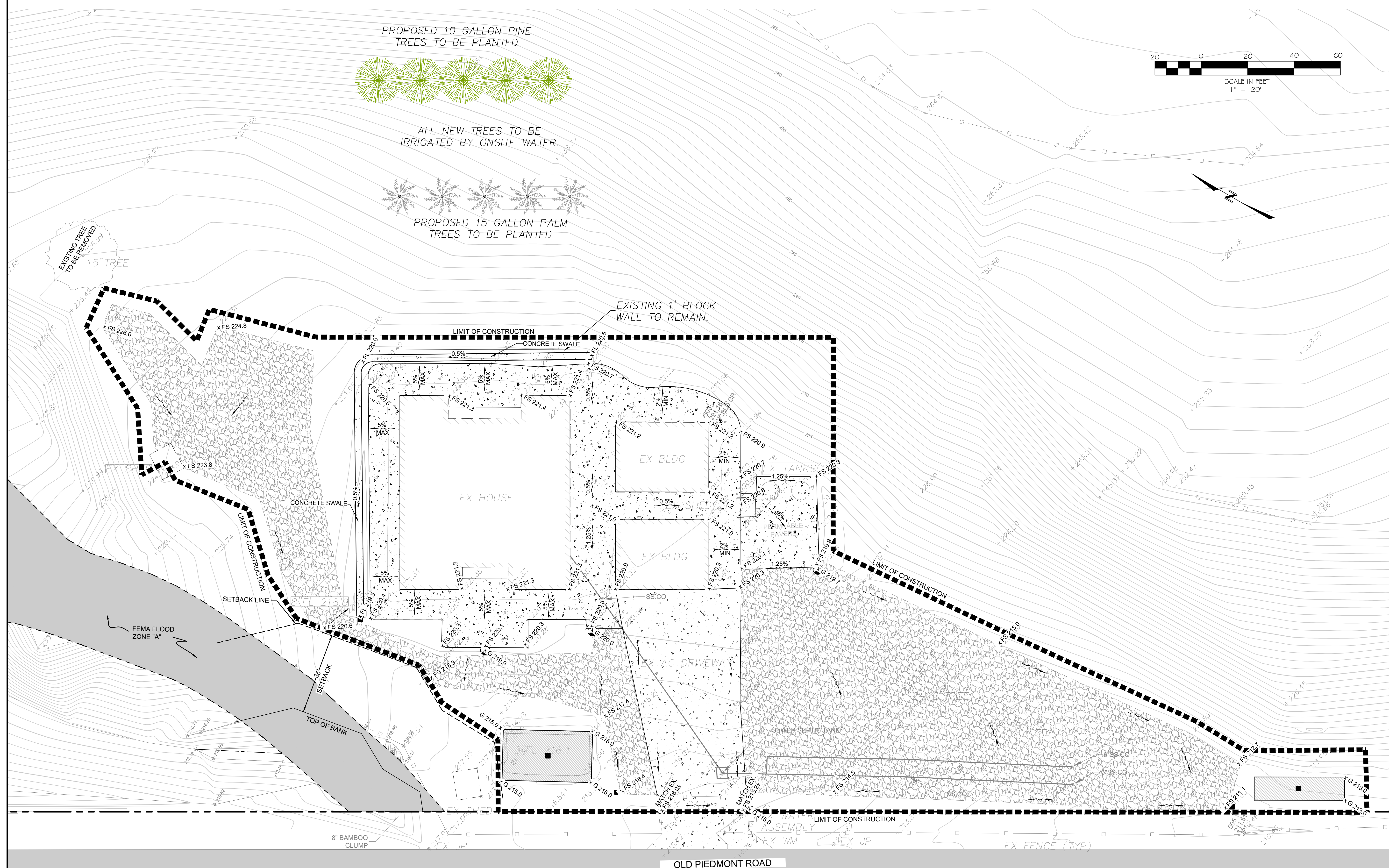
NO	DATE	DESCRIPTION
△		
△		
△		
△		
△		

REVISIONS

PROJECT:	2023.XXX
FILE:	DEMO.DWG
DATE:	JAN 29, 2024
SCALE:	
DESIGNED BY:	VER
DRAWN BY:	GH/YC
REVIEWED BY:	VER
© VER CONSULTANTS, INC	



**GRADING PERMIT
 PLN23-227
 2054 OLD PIEDMONT ROAD
 GRADING & DRAINAGE PLAN**



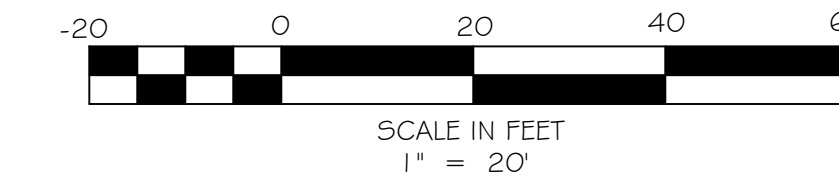
NO	DATE	DESCRIPTION
△		
△		
△		
△		
△		

REVISIONS

PROJECT:	2023.XXX
FILE:	GP.DWG
DATE:	JAN 29, 2024
SCALE:	
DESIGNED BY:	VER
DRAWN BY:	GH/YC
REVIEWED BY:	VER
© VER CONSULTANTS, INC	

LEGEND

	PROPOSED	EXISTING
STORM DRAIN LINE		
AREA DRAIN (AD)		
STORM DRAIN CATCH BASIN (SDCB)		
SHALLOW GRAVEL BASIN		
TREATMENT CONTROL #	TCM 1	
DRAINAGE MANAGEMENT AREA	DMA 1	
DRAINAGE AREA BOUNDARY		



GRADING PERMIT
PLN23-227
2054 OLD PIEDMONT ROAD
STORMWATER CONTROL PLAN

CALIFORNIA

SAN JOSE

NO	DATE	DESCRIPTION
△		
△		
△		
△		
△		

REVISIONS

PROJECT:	2023.XXX
FILE:	SCP.DWG
DATE:	JAN 29, 2024
SCALE:	
DESIGNED BY:	VER
DRAWN BY:	GH/YC
REVIEWED BY:	VER
© VER CONSULTANTS, INC	



GRADING PERMIT
PLN23-227
2054 OLD PIEDMONT ROAD
STORMWATER CALCULATIONS & DETAILS
CALIFORNIA
SAN JOSE

TCM 1
Step 1: Impervious Area

TOTAL IMPERVIOUS AREA OF THE SITE (sf) = 31578

Step 2: Adjusted Run-off coefficient

Run-off Coefficient for Roof & impervious service: 0.9
 Run-off Coefficient for Dirt: 0.3

Run-off Coefficient = 0.90

Step 3: Added Discharge Rate from New Impervious Area:

$$Q = C \cdot i \cdot A_{\text{imp}} \cdot \frac{1 \text{ ft}}{12 \text{ in}} \cdot \frac{1 \text{ hr}}{3600 \text{ s}}$$

Rainfall Intensity, i (in./hr) = 2

$$\Delta Q (\text{cfs}) = 1.3158$$

Step 4: Determine Storage/Detention Volume to Accommodate Added Discharge:

$$V = 1.5 \cdot Q (\text{cfs}) \cdot 10 \text{ min} \cdot \frac{60 \text{ sec}}{1 \text{ min}}$$

$$V (\text{cf}) = 1184.2$$

OPTION 1: Shallow Gravel Basin as Filtration and Detention Device

Step 5: Determine required volume of gravel bed:

$$V_{\text{gravelbed}} = \frac{V (\text{cf})}{0.4}$$

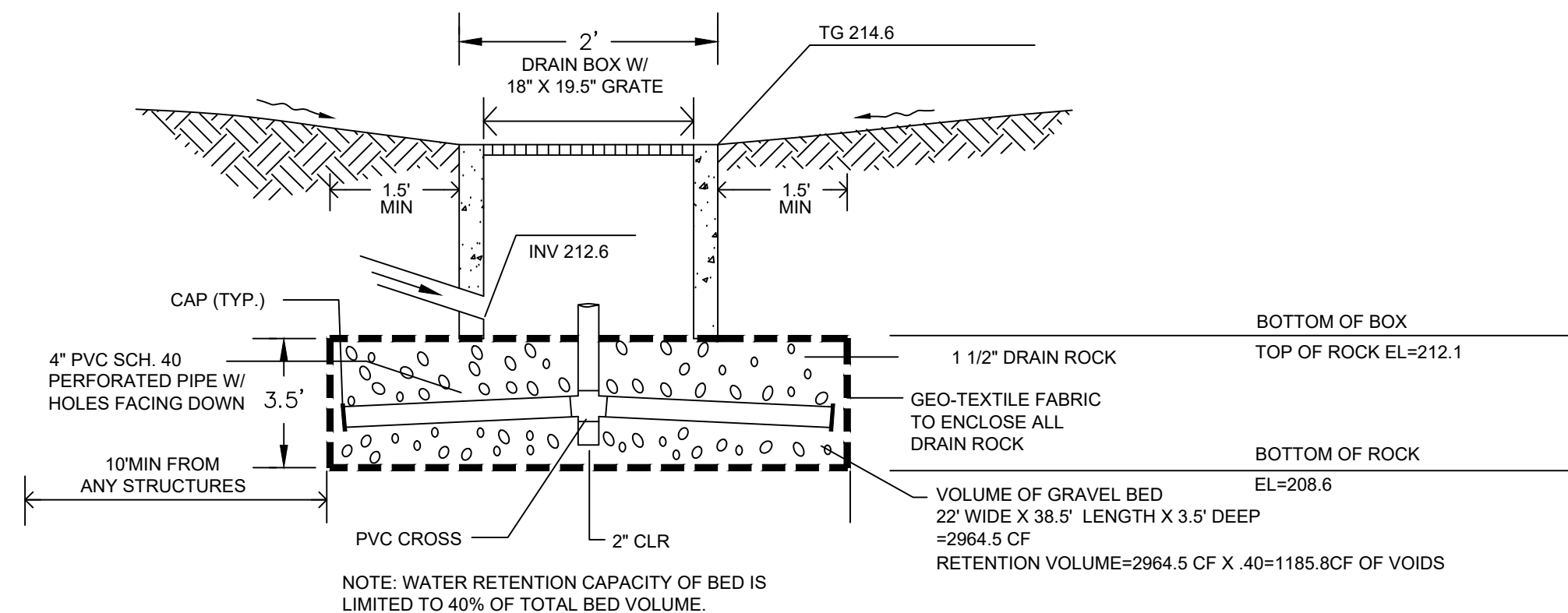
$$V_{\text{gravel bed}} (\text{cf}) = 2960.4$$

Step 6: Estimate the Area of the Gravel Bed:

$$A_{\text{gravelbed}} = V_{\text{gravelbed}} / 3.5 \text{ ft}$$

$$A_{\text{gravel bed}} (\text{sf}) = 845.8$$

AREA of Shallow Gravel base provided: 847 SF



TCM 1 - SHALLOW GRAVEL BASIN
 ON-SITE ONLY SCALE: NTS

TCM 2
Step 1: Impervious Area

TOTAL IMPERVIOUS AREA OF THE SITE (sf) = 14461

Step 2: Adjusted Run-off coefficient

Run-off Coefficient for Roof & impervious service: 0.9
 Run-off Coefficient for Dirt: 0.3

Run-off Coefficient = 0.90

Step 3: Added Discharge Rate from New Impervious Area:

$$Q = C \cdot i \cdot A_{\text{imp}} \cdot \frac{1 \text{ ft}}{12 \text{ in}} \cdot \frac{1 \text{ hr}}{3600 \text{ s}}$$

Rainfall Intensity, i (in./hr) = 2

$$\Delta Q (\text{cfs}) = 0.6025$$

Step 4: Determine Storage/Detention Volume to Accommodate Added Discharge:

$$V = 1.5 \cdot Q (\text{cfs}) \cdot 10 \text{ min} \cdot \frac{60 \text{ sec}}{1 \text{ min}}$$

$$V (\text{cf}) = 542.3$$

OPTION 1: Shallow Gravel Basin as Filtration and Detention Device

Step 5: Determine required volume of gravel bed:

$$V_{\text{gravelbed}} = \frac{V (\text{cf})}{0.4}$$

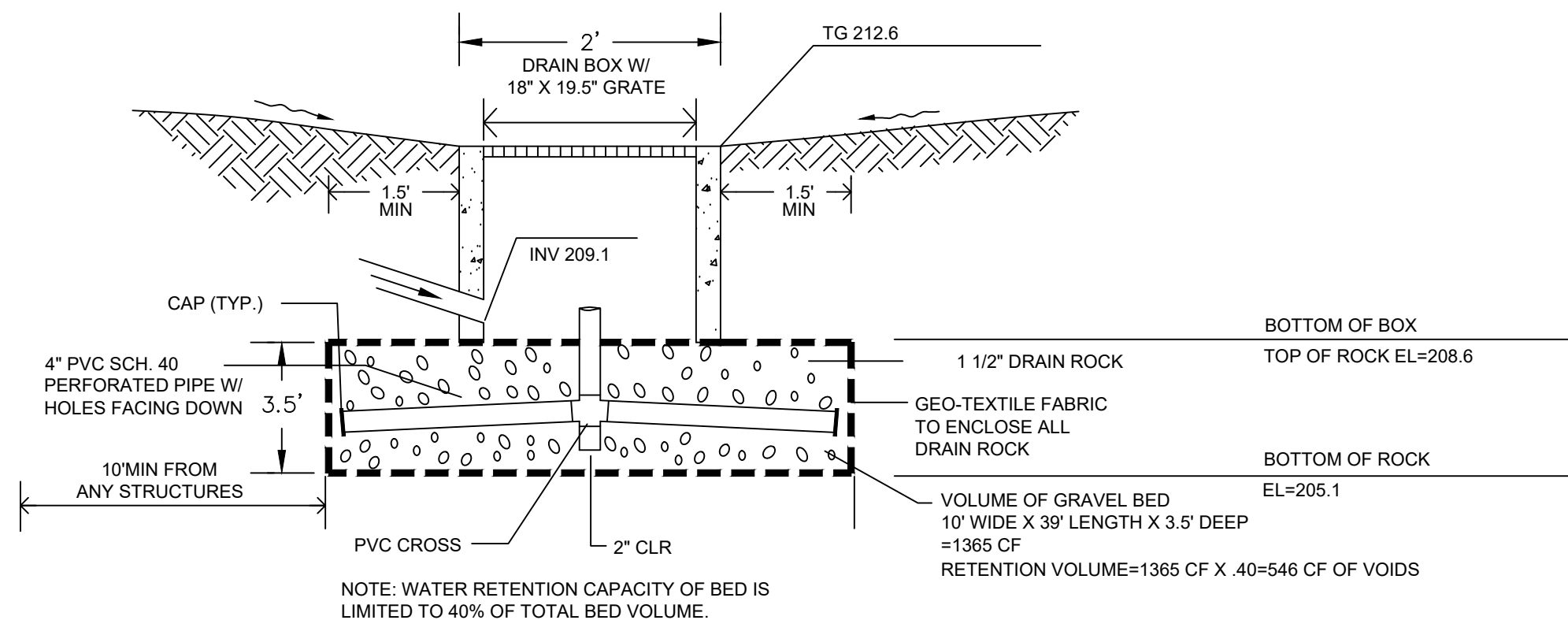
$$V_{\text{gravel bed}} (\text{cf}) = 1355.7$$

Step 6: Estimate the Area of the Gravel Bed:

$$A_{\text{gravelbed}} = V_{\text{gravelbed}} / 3.5 \text{ ft}$$

$$A_{\text{gravel bed}} (\text{sf}) = 387.3$$

AREA of Shallow Gravel base provided: 390 SF

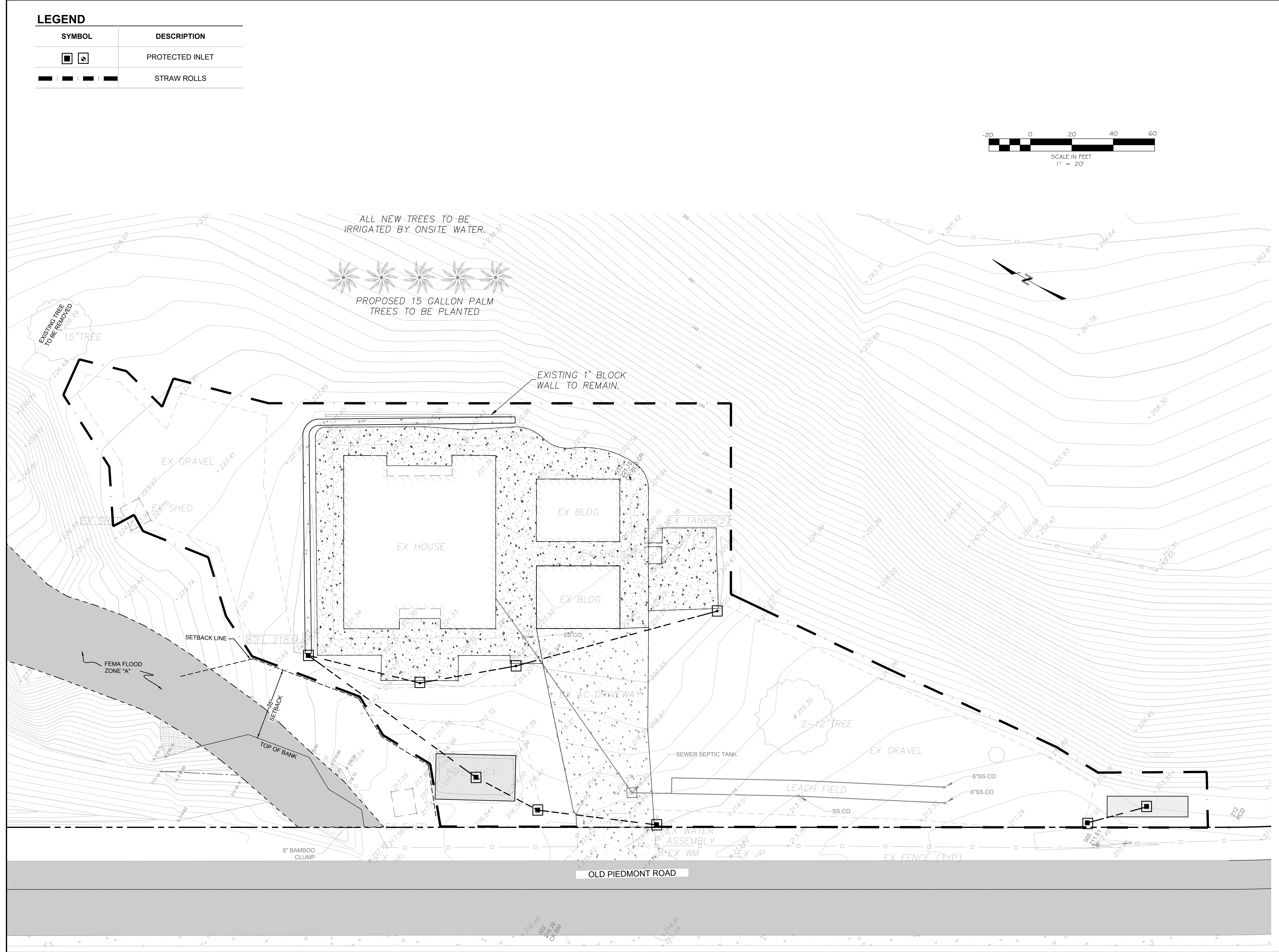
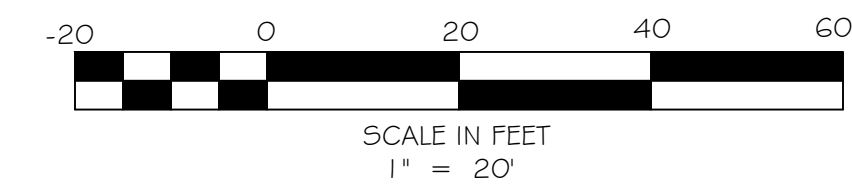


TCM 2 - SHALLOW GRAVEL BASIN
 ON-SITE ONLY SCALE: NTS

NO	DATE	DESCRIPTION
△		
△		
△		
△		
△		
△		
REVISIONS		
PROJECT:	2023.XXX	
FILE:	SCP.DWG	
DATE:	JAN 29, 2024	
SCALE:		
DESIGNED BY:	VER	
DRAWN BY:	GH/YC	
REVIEWED BY:	VER	
© VER CONSULTANTS, INC		

LEGEND

SYMBOL	DESCRIPTION
	PROTECTED INLET
	STRAW ROLLS



CALIFORNIA

SAN JOSE

**GRADING PERMIT
 PLN23-227
 2054 OLD PIEDMONT ROAD
 EROSION CONTROL PLAN**

NO	DATE	DESCRIPTION
△		
△		
△		
△		
△		

REVISIONS

PROJECT:	2023.XXX
FILE:	EC.DWG
DATE:	JAN 29, 2024
SCALE:	
DESIGNED BY:	VER
DRAWN BY:	GH/YC
REVIEWED BY:	VER
© VER CONSULTANTS, INC	

SHEET 6

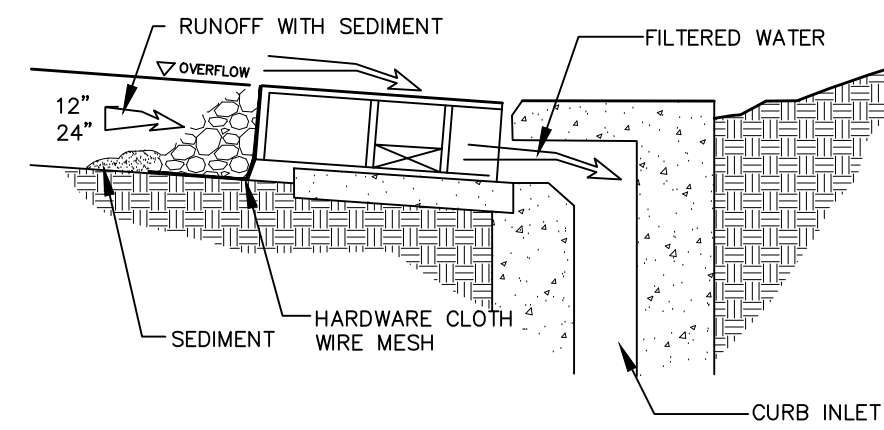
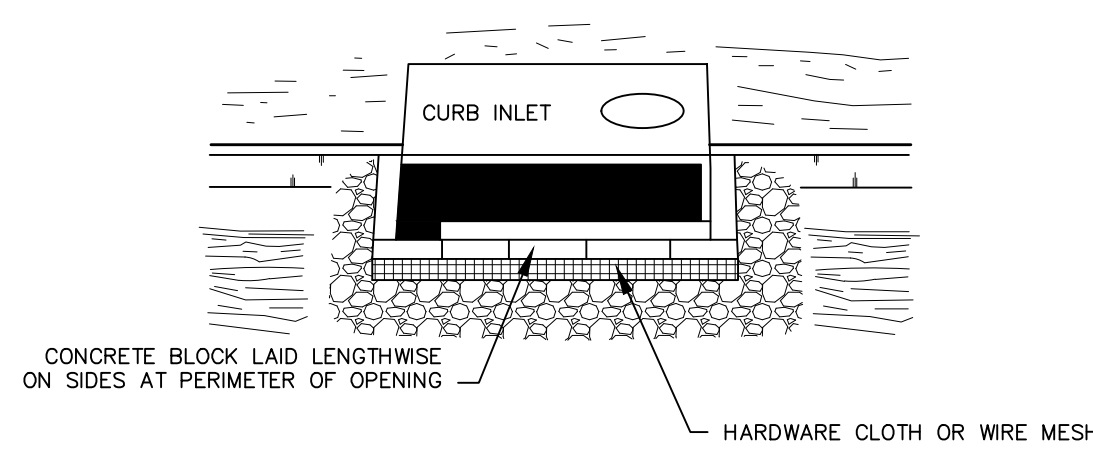


GRADING PERMIT
PLN23-227
2054 OLD PIEDMONT ROAD
EROSION CONTROL DETAILS

NO	DATE	DESCRIPTION
Δ		
Δ		
Δ		
Δ		
Δ		
Δ		

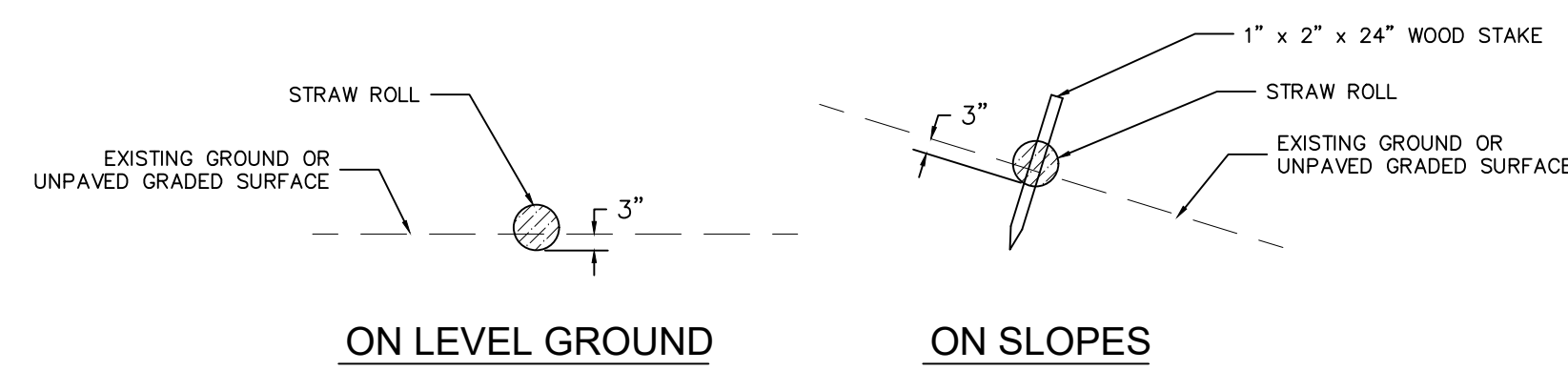
REVISIONS

PROJECT:	2023.XXX
FILE:	EC.DWG
DATE:	JAN 29, 2024
SCALE:	
DESIGNED BY:	VER
DRAWN BY:	GH/YC
REVIEWED BY:	VER
© VER CONSULTANTS, INC	



DI PROTECTION –
TYPE 4
NOT TO SCALE

1 STORM DRAIN INLET PROTECTION
NOT TO SCALE



- NOTE:
- PLACE STRAW ROLL IN TRENCH EXCAVATED 3" (0.25') INTO GROUND ALONG CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.
 - ON SLOPES PLACE ROLL TO FOLLOW THE CONTOUR AS CLOSELY AS POSSIBLE. CURVE ENDS UPHILL AT THE ENDS.
 - ABUT ADJACENT ROLLS TIGHTLY.

2 STRAW ROLL
NOT TO SCALE