### **GRADING PLAN NOTES**

- 1. Grading operations shall be conducted in accordance with the code of the City of Torrance and all revisions thereto.
- 2. A Pre-Job meeting with the Grading Inspector, (310) 618-5915, is required prior to the start of grading operations. Subsequent inspections shall be requested in accordance with the Inspector's instructions of the first inspection.
- 3. Estimated earthwork yardage including recompaction of sumps or existing loose fill: 5 Cubic Yards Fill in Lots: 1.5 Feet Maximum Depth of Fill

Cut in Lots:	15	Cubic Yards
Maximum Depth of Cut:	2	Feet
Overexcavation & Recompaction	: 0	Cubic Yards
Paving Area 1	,123	Square Feet

- 4. Existing ground upon which fill or base is to be placed shall be cleared of weeds, debris, topsoil, and all other deleterious materials; no fill shall be placed until preparation of the existing ground has been approved by the Soils Engineer of record and by the Inspector.
- 5. Protective measures shall be taken by the contractor and the owner to protect adjacent property, public and utilities during grading operations. The contractor assumes all liability for the underground utility pipes, conduits, or structures, whether shown or not on the plan.
- 6. Water content shall be controlled as determined by the Soils Engineer and the Inspector.
- 7. Permission shall be secured from the Engineering Department if the trucks are loaded in the street.
- 8. Unsuitable material shall be disposed of off-site. The location of dumping excess soil shall be approved by the Grading Inspector prior to starting excavation.
- 9. If a grading job extends over a period of time exceeding six months, the Department may require planting of those portions of the job where all other grading requirements have been met in order to prevent dust and erosion.
- 10. Loose material shall not exceed 3" in depth on a filled slope.
- 11. All slopes so designated shall be planted with an approved perennial for erosion control. Planting shall be sprinklered and maintained until planting has reached mature growth.
- 12. All loose on site fill shall be removed and compacted.
- 13. All work shall be accomplished in accordance with recommendations set forth in the soils report by dated and the Geological Report by
- 14. All man-made fill shall be compacted to a minimum 90 percent of the maximum dry density of the fill material per the latest version of ASTM D1557.
- 15. Sufficient tests of the fill soils shall be made to determine the relative compaction of the fill in accordance with the following minimum guidelines:
- A. One test for each two foot vertical lift. B. One test for each 500 cubic yards of material placed.
- C. One test at the location of the final fill slope for each building site (Lot) in each four foot vertical lift of portion thereof.
- D. One test in the vicinity of each building pad for each four foot vertical lift or portion thereof.
- 16. Import Soils should consist of clean, compactable materials possessing expansion characteristics similar to or better than the upper on-site Soils. Import soils should be free of trash, debris or other objectionable materials. Contractor shall notify the Project Geotechnical Engineer not less than 72 hours in advance of the location of any soils proposed for Import. Each proposed Import source shall be sampled, tested, and approved prior to delivery of soils for use on the site.
- 17. All fill under the building foundation must be certified by the Soils Engineer as to proper bearing value design and its compliance with the preliminary soils report on note 13.
- 18. All subgrade under areas to be paved shall be certified by the Soils Engineer in compliance with Section 81.2.34(g) of the Torrance Municipal Code.
- 19. The engineering Geologist, Soils Engineer and Civil Engineer, in compliance with Section 81.2.37(g) of the Torrance Municipal Code, shall provide the Department with a grading certification upon completion of the job.
- 20. An as-graded plan prepared by the Civil Engineer of record shall be submitted with the required grading certifications to the Department upon job completion.
- 21. Approval of this plan is for grading and paving on site only and does not constitute approval of any building, wall or other structure shown on site nor any off-site improvements shown.
- 22. No fill shall be placed during unfavorable weather conditions. The Soils Engineer and Grading Inspector shall verify moisture content and density prior to placement of additiona fill after heavy rains.
- 23. All construction in public right of way shall be under separate permit and approved by the Engineering Department.

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS

- 1. Owner shall keep the construction area sufficiently dampened to control dust caused by grading and construction. Owner shall, at all times, provide reasonable control of dust caused by wind.
- 2. The export or import material in each truckload shall be kept low enough to prevent spillage and shall be sufficiently wet down to prevent dust.
- 3. A staging area shall be designated where each truck is prepared for road travel and all loose material removed. Any substance to drop from the body, tires, or wheels of any vehicle upon the public right of way shall be removed immediately and permanently.

4. Erosion control measures shall be in place from November 15 through April 15.

**Construction Projects:** 

ARE/

## **CITY OF TORRANCE COMMUNITY DEVELOPMENT DEPARTMENT**

Case No.

**BEST MANAGEMENT PRACTICES FOR ALL FOR CONSTRUCTION ACTIVITIES\*** 

Project Address: 5205 CALLE MAYOR

The Following are Minimum Water Quality Protection Requirements for All Development

- Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheetflow, swales, area drains, natural drainage courses or wind.
- Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
- Fuels, oils, solvents and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system
- Non-stormwater runoff from equipment and vehicle washing and any other activity shall be contained at the project site.
- Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid
- waste. Trash and construction related solid wastes must be deposited into a covered receptacle to
- prevent contamination of rainwater and dispersal by wind. • Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may
- not be washed down by rain or other means. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.
- Other:

As the project owner or authorized agent of the owner, I have read and understand the requirements listed above, necessary to control storm water pollution from sediments, erosion, and construction materials, and I certify that I will comply with these requirements.

The above Best Management Practices are detailed in the California Storm Water Best Management Practices Handbook, January 2003

LEGEND:

PROPERTY LINE OR P

EXISTING SEWER LINE

EXISTING WATER LINE

EXISTING GAS LINE

NEW GAS LINE

NEW WATER LINE

FLOW LINE OR FL

RIDGE LINE/RIDGE

STORM DRAIN LINE

NEW SEWER LINE

NEW IRRIGATION LINE

NEW SPOT ELEVATION

LIMIT OF GRADING

EXISTING SPOT ELEVATION

EXISTING GRADE CONTOUR

FINISHED GRADE CONTOUR

BOTTOM OF EXCAVATED PLANE

GRADE CHANGE OR GC

CENTERLINE OR 🤅

www.cabmphandbooks.com

(Owner or authorized agent of the owner) Date 5/13/2021 Signature (Owner or authorized agent of the owner)

### **ABBREVIATION:**

	AD
ASPHALI CUNCRETE	AC
BACK OF WALK	BW
BOITOM LANDING	BL
AREA DRAINASPHALT CONCRETEBACK OF WALKBOTTOM LANDINGBOTTOM LANDINGBOTTOM OF BOTTOM STEP	BBS
BOTTOM OF EXCAVATED PLANE	BEP
BOTTOM OF PUMP HOUSING	BPH
BOTTOM OF BOTTOM STEP BOTTOM OF EXCAVATED PLANE BOTTOM OF PUMP HOUSING CAST IRON PIPE CEMENT CONCRETE CENTER LINE CHAIN LINK FENCE CLEANOUT	CIP
CEMENT CONCRETE	CC
CHAIN LINK FENCE	CLF
DOWNSPOUL	DS
DRIVEWAY	DWY
EDGE OF GUTTER	EG
EXISTING	ΕX
CHAIN LINK FENCE CLEANOUT DOWNSPOUT DRIVEWAY EDGE OF GUTTER EXISTING FINISHED FLOOR FINISHED FLOOR	FF
FINISHED SURFACE	FS
FIRE HYDRANT	FH
	FI
CARACE FINISHED FLOOD	
GARAGE FINISHED FLOUR	GFF
GAS METER	GM
GROUND	GND
HOUSE LATERAL	HL
FINISHED FLOOR FINISHED SURFACE FIRE HYDRANT FLOW LINE GARAGE FINISHED FLOOR GAS METER GROUND HOUSE LATERAL INVERT INVERT	INV
INVERT	LS
NATURAL GRADE	NG
PLANTING AREA	PA
POINT OF CONNECTION	POC
POWER POLE	PP
REINFORCED CONCRETE PIPE	RCP
	R
POWER POLE REINFORCED CONCRETE PIPE RIDGE STREET SIGN TOP OF AREA DRAIN TOP OF CATCH BASIN TOP OF CURB TOP OF CURB	50
JIRELI JIGIN	22
TOP OF AREA DRAIN	TAD
TOP OF CATCH BASIN	ICB
IOP OF CURB	IC
TOP OF FLOOR DRAIN	TFD
TOP OF LANDING	TL
TOP OF TOP STEP	TTS
TOP OF SEWER MANHOLE	TSME
TOP OF STEM WALL	TSW
TOP OF WALL	TW/
WATER METER	
TOP OF CURB TOP OF FLOOR DRAIN TOP OF LANDING TOP OF TOP STEP TOP OF SEWER MANHOLE TOP OF STEM WALL WATER METER WROUGHT IRON FENCE YARD BOX, LIGHT STANDARD	
TAKU BUX, LIGHT STANDAKU	IRL2

\_\_\_\_\_ \_\_\_\_\_ S \_\_\_\_\_ \_\_\_\_\_\_W\_\_\_\_\_ \_\_\_\_\_ G \_\_\_\_\_ G \_\_\_\_\_ R \_\_\_\_\_ R \_\_\_\_ R \_\_\_\_ \_\_\_\_\_\_ SD\_\_\_\_\_ SD\_\_\_\_\_ \_\_\_\_\_s \_\_\_\_s \_\_\_\_ (XXX.XX) (XXX.XX)/ XXX.XX

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# VICINITY MAP

# INDEX OF SHEETS

SHEET	DESCRIPTION
C0.01	TITLE SHEET
C1.01	DEMOLITION
C2.01	GRADING & DRAINAGE PLAN AND DETAILS
C3.01	EROSION CONTROL NOTES, PLAN, AND DETAILS
	TOPOGRAPHIC SURVEY (FOR REFERENCE ONLY)
	TOPOGRAPHIC SURVEY (FOR REFERENCE ONLY)

LEGAL DESCRIPTION: TRACT NO 18249 LOTS 13,14 AND LOT 15

## **BENCHMARK:**

CITY OF TORRANCE BENCHMARK NO. 252

CHIS " □ " IN E'LY CURB CALLE MAYOR +/- S'LY OF CL OF MARION 15' S'LY OF S/E BCR (ADJUSTED 1960)

ELEVATION = 74.15'

## SUBSTRUCTURE NOTICES:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR SUBSTRUCTURE SHOWN ON THESE PLANS ARE OBTAINED FROM A SEARCH OF AVAILABLE RECORDS AND POTHOLES SHOWN ON PLANS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE UTILITIES OR SUBSTRUCTURE SHOWN AND ANY OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

THE CONTRACTOR SHALL NOTIFY ALL PERTINENT UTILITY COMPANIES, NOT LIMITED TO THOSE INDICATED BELOW, AT LEAST 48 HOURS PRIOR TO THE START OF ANY EXCAVATION.



TWO WORKING DAYS BEFORE YOU DIG

1-800

422-4133

## EARTHWORK QUANTITIES NOTICE:

ALL EARTHWORK AND OTHER QUANTITIES ARE ESTIMATED FOR BONDING AND PLAN CHECKING FEE PURPOSES ONLY -- NOT FOR BIDDING PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACCURACY OF THE ESTIMATE.

THE CONTRACTOR SHALL MAKE HIS OWN INDEPENDENT DETERMINATION OF THE AMOUNT OF EARTHWORK INVOLVED BEFORE SUBMITTING A BID. THE ENGINEERING ESTIMATE OF THE EARTHWORK QUANTITIES ARE ARE TOTAL RAW VOLUME ONLY AND ARE TO BE USED FOR GRADING PERMIT AND PLAN CHECK FEES ONLY.

THE EARTHWORK QUANTITIES SHOWN DO NOT ACCOUNT FOR THE IMPACTS OF THE FINAL EARTH MOVING QUANTITIES OF THE FOLLOWING ITEMS: 1.) SHRINK OF SWELL OF THE NATIVE OR IMPORTED MATERIAL

2.) EXCAVATION OF BUILDING AND COLUMN FOOTINGS

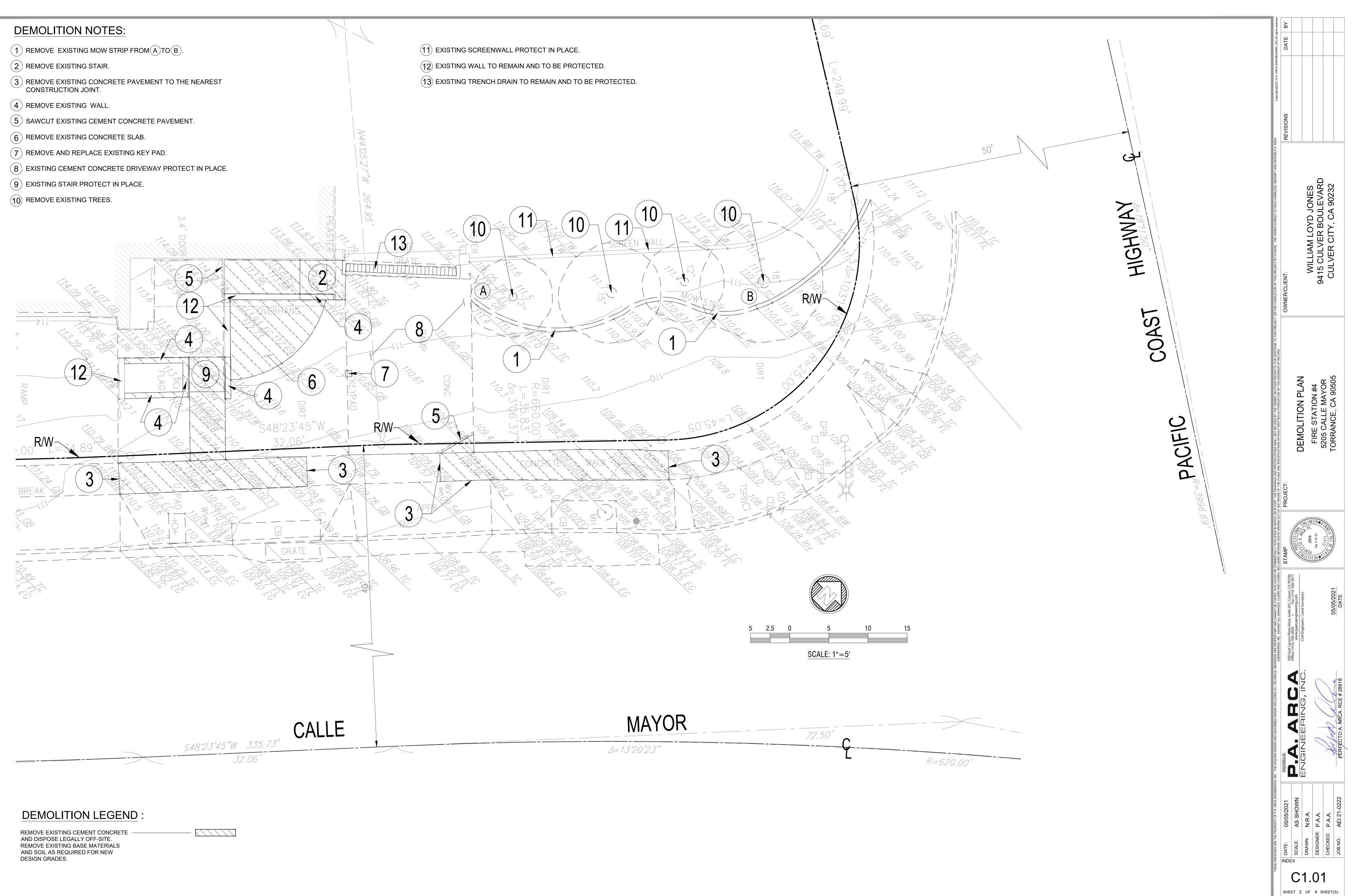
3.) SPOIL MATERIAL CREATED FROM PIPE TRENCHING 4.) EXCAVATION AND SPOIL MATERIAL FROM L.I.D. BMP CONSTRUCTION

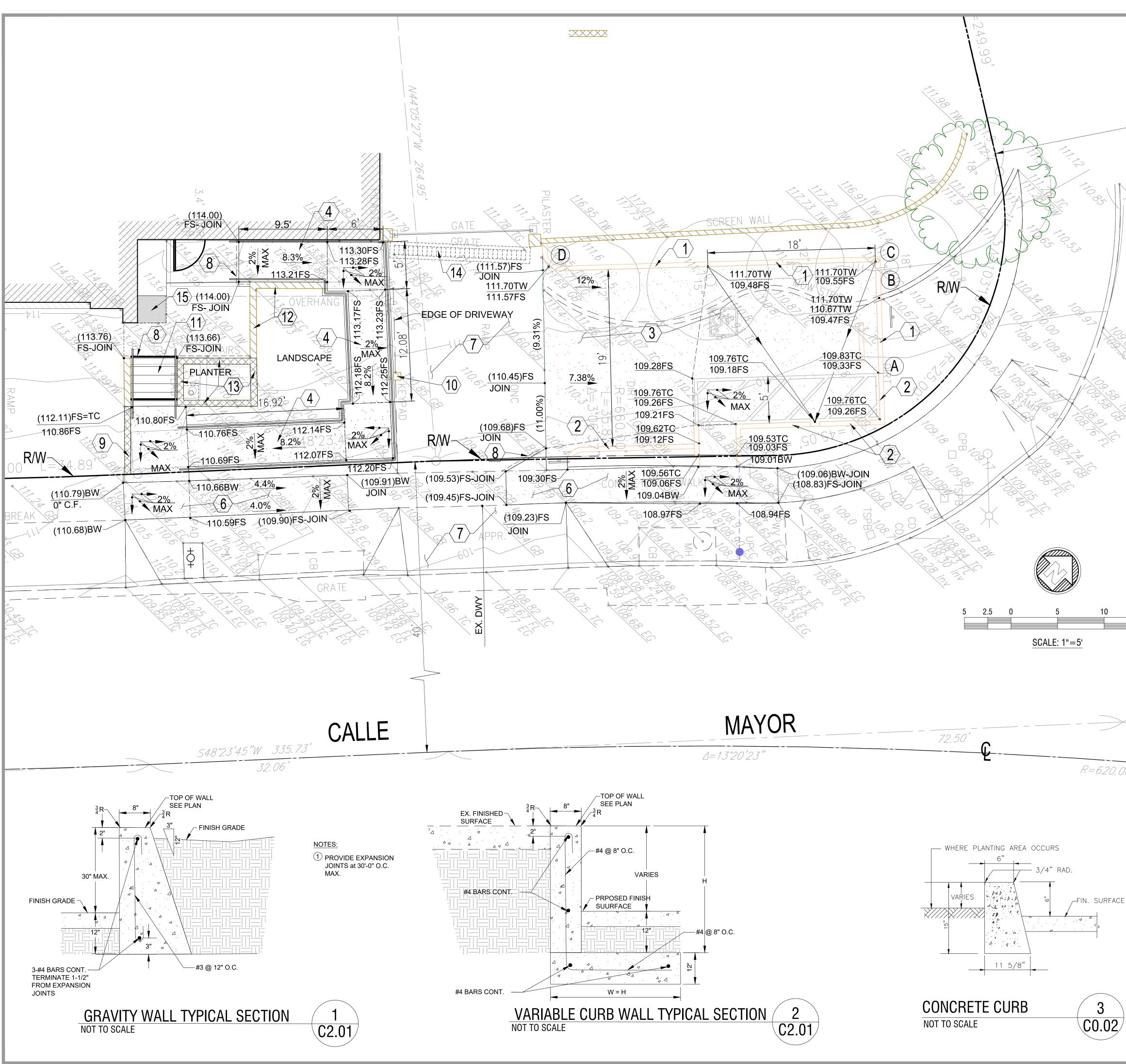
5.) PLACEMENT OF LANDSCAPING TOP SOILS.

THE CONTRACTOR IS RESPONSIBLE FOR HAULING AND DISPOSAL OF ALL EXCESS SOIL FROM

EARTH MOVING OPERATIONS INCLUDING TRENCHING SPOILS AND FOUNDATION SPOILS. THE CONTRACTOR SHALL PREPARE SEPARATE EARTHWORK QUANTITY CALCULATIONS PRIOR TO BIDDING AND SHALL BASE HIS/HER BASE BID EXCLUSIVELY ON HIS/HER OWN COMPUTATION.

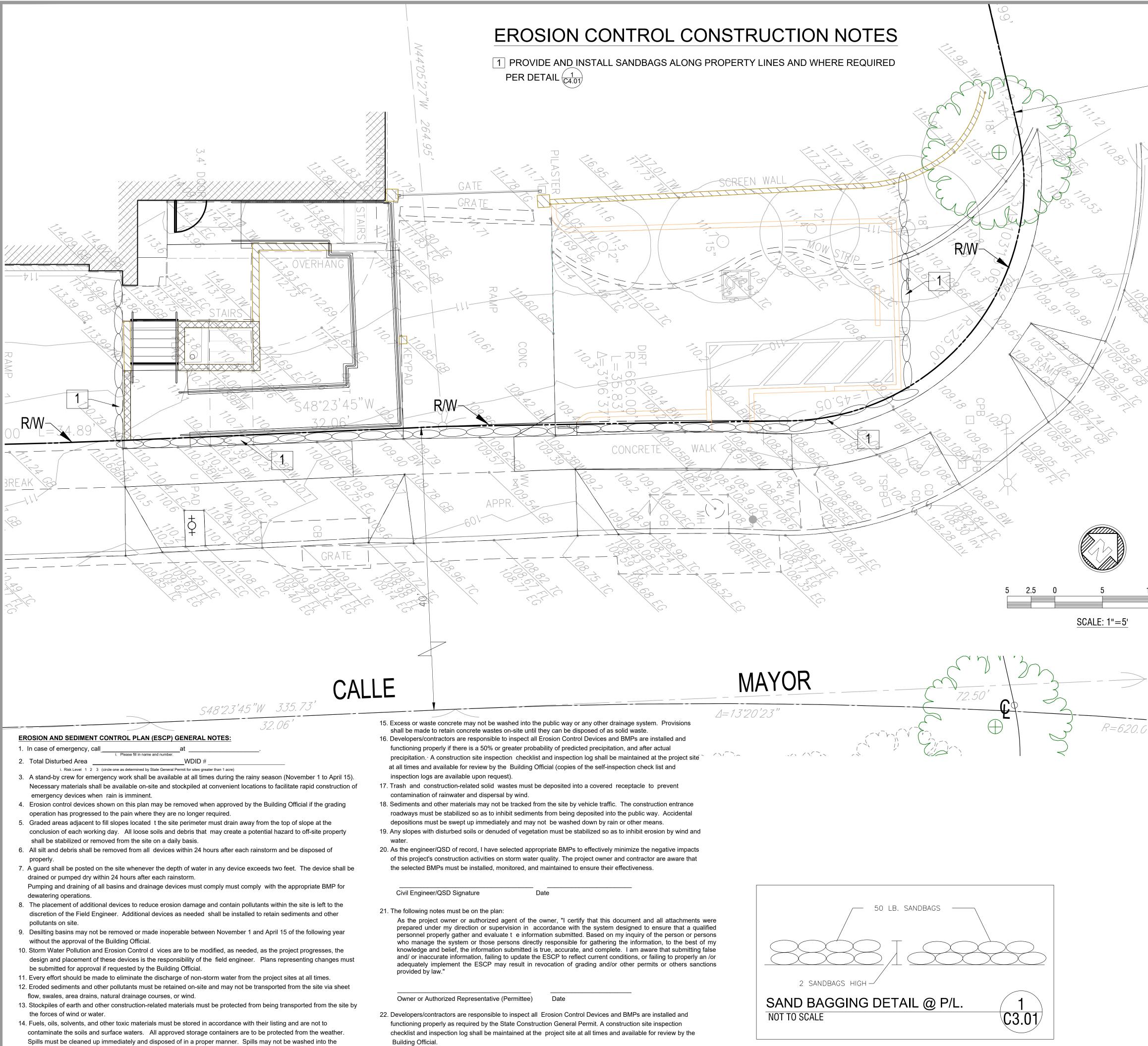
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WINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR C ENGINEERING, INC. AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INC	500 East Carson Plaza Drive, Suite 201, Carson, CA 90746 Office: (310) 768-3027 www.paarcaengineering.com Civil Engineers / Land Surveyors 05/05/2021 DATE
NG, INC. THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAI	PREMEDENCE PLA. ABCA ENGINE FRING, INC. PERFECTOA. ARCA RCE # 28918
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15	CONSTRUCTION NOTES:		STAMP STAMP	CONTRACTOR AND	
	<ul> <li>PER DETAIL 1 (C2.01).</li> <li>CONSTRUCT CURB PER DETAIL 3 (C2.02).</li> <li>CONSTRUCT 6" THK CEMENT CONCRETE PAVEMENT OVER 6" AGGREGATE BASE.</li> <li>CONSTRUCT HANDICAPPED RAMP. ARCHITECTURAL PLAN FOR DETAIL.</li> <li>CONSTRUCT 4" THK. CEMENT CONCRETE PAVEMENT OVER 6"</li> </ul>	DRAWINGS ARE PROPRIETARY AND CANNOT BE COPIED, DUPLICATED OR CON	ver aLL DAWAGES, CLAIMS AND LOSSES, IN Drive, Suite 201, Carson, CA 90746 Fax: (310) 768-3977 arcaengineering.com	Civil Engineers / Land Surveyors 05/05/2021	DATE
	<ul> <li>AGGREGATE BASE.</li> <li>CONSTRUCT 4" THK CEMENT CONCRETE SIDEWALK AND 6" THICK AT THE DRIVEWAY AREA TO MEET THE CROSS SLOPE OF 2% MAXIMUM.</li> <li>EXISTING CEMENT CONCRETE DRIVEWAY TO REMAIN AND TO BE PROTECTED.</li> <li>SAWCUT AND JOIN.</li> <li>CONSTRUCT VARIABLE CURB WALL PER DETAIL <sup>2</sup> (C2.01).</li> <li>EXISTING KEY PAD TO BE REMOVED AND REPLACED</li> </ul>	THE DESIGNS SHOWN AND DESCRIBED HEREN INCLUDING ALL TECHNICAL DRAWING			PERFECTO A. ARCA RCE # 28918
Ξ	<ul> <li>(10) EXISTING KEY PAD TO BE REMOVED AND REPLACED.</li> <li>(11) CONSTRUCT STAIR PER ARCHITECTURAL PLAN</li> <li>(12) EXISTING WALL TO REMAIN AND TO BE PROTECTED.</li> <li>(13) CONSTRUCT RETAINING WALL PER STRUCTURAL PLAN.</li> <li>(14) EXISTING TRENCH DRAIN TO REMAIN AND TO BE PROTECTED.</li> <li>(15) CONSTRUCT CEMENT CONCRETE TO MATCH THE EXISTING.</li> </ul>	THESE DRAWINGS ARE THE PROPERTY OF P.A. ARCA ENGINEERING, INC. THE DESIC	DATE: 05/05/2021	N.R.A. N.R.A. S. P.A.A.	JOB NO.: AEI 21-0222
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SHEET 3 OF 4 SHEET(S)



drainage system.

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	Androsk/Portal must be implemented by details from "Calinas Stormwater Quality Storm "Constructions of the stormwater Quality storms" of the stormwater Quality stormwater Management Stormwater Quality stormwater Managem	OWNER/CLIENT:	WILLIAM LOYD JONES 9415 CULVER BOULEVARD CULVER CITY, CA 90232
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		STAMP	ESCIPTION AND AND AND AND AND AND AND AND AND AN
<ul> <li>23. The following BMPs from the "2009 Construction BMP for all construction activities as applicable. As an alterna Handbooks, Construction Site Best Management Practice measures may be required if deemed appropriate by the EC1 - SCHEDULING</li> <li>EC2 - PRESERVATION OF EXISTING VEGETATION EC3 - HYDRAULIC MULCH</li> <li>EC4 - HYDROSEEDING</li> <li>EC5 - SOIL BINDERS</li> <li>EC6 - STRAW MULCH</li> <li>EC7 - GEOTEXTILES &amp; MATS</li> <li>EC8 - WOOD MULCHING</li> <li>EC3 - EARTH DIKES AND DRAINAGE SWALES</li> <li>EC10 - VELOCITY DISSIPATION DEVICES</li> <li>EC11 - SLOPE DRAINS</li> <li>EC12 - STREAMBANK STABILIZATION</li> <li>EC13 - RESERVED</li> <li>EC14 - COMPOST BLANKETS</li> <li>EC15 - SOIL PREPARATIONNOUGHENING</li> <li>EC16 - NON-VEGETATED STABILIZATION</li> <li>EC16 - NON-VEGETATED STABILIZATION</li> <li>ES1 - SILT FENCE</li> <li>SEDIMENT TRAP</li> <li>SE4 - CHECK DAM</li> <li>SE5 - FIBER ROLLS</li> <li>SE6 - GRAVEL BAG BERM</li> <li>SF - STREM BAR BARRIER</li> <li>SE9 - STRAW BALE BARRIER</li> <li>SE10 - STORM DRAIN INLET PROTECTION</li> <li>SE11 - ACTIVE TREATMENT SYSTEMS</li> <li>SE12 - TEMPORARY SILT DIKE</li> <li>SE13 - COMPOST SOCKS &amp; BERMS</li> <li>SE14 - BIOFILTER BAGS</li> <li>WIND EROSION CONTROL</li> <li>WIND EROSION CONTROL</li> </ul>	Handbook/Portal" must be implemented tive, details from "Caltrans Stormwater Quality ise (BMP) Manual" may be used. Additional Building Official. <u>TEMPORARY TRACKING CONTROL</u> TC1 - STABILIZED CONSTRUCTION ENTRANCE EXIT TC2 - STABILIZED CONSTRUCTION ROADWAY TC3 - ENTRANCE/OUTLET TIRE WASH <u>NON-STORMWATER MANAGEMENT</u> NS1- WATER CONSERVATION PRACTICES NS2 - DEWATERING OPERATIONS NS3 - PAVING AND GRINDING OPERATIONS NS4 - TEMPORARY STREAM CROSSING NS5 - CLEAR WATER DIVERSION NS6 - ILLICIT CONNECTION/DISCHARGE NS7 - POTABLE WATER/IRRIGATION NS8 - VEHICLE AND EQUIPMENT CLEANING NS9 - VEHICLE AND EQUIPMENT FUELING NS10 - VEHICLE AND EQUIPMENT FUELING NS10 - VEHICLE AND EQUIPMENT FUELING NS11 - CONCRETE FINISHING NS12 - CONCRETE FINISHING NS13 - CONCRETE FINISHING NS14 - MATERIAL AND EQUIPMENT USE NS15 - DEMOLITION ADJACENT TO WATER NS16 - TEMPORARY BATCH PLANTS <u>WASTE MANAGEMENT &amp; MATERIAL POLLUTION CONTROL</u> NM1 - MATERIAL DELIVERY AND STORAGE WM2 - MATERIAL USE WM3 - STOCKPILE MANAGEMENT WM4 - SPILL PREVENTION AND CONTROL NM5 - SOLID WASTE MANAGEMENT WM4 - SPILL PREVENTION AND CONTROL NM5 - CONCRETE WASTE MANAGEMENT WM6 - CONCRETE WASTE MANAGEMENT WM6 - LIQUID WASTE MANAGEMENT WM8 - CONCRETE WASTE MANAGEMENT WM6 - LIQUID WASTE MANAGEMENT WM10 - LIQUID WASTE MANAGEMENT	DATE: 05/05/2021	IN R.A. IR. P.A.A. ED: P.A.A. ED: P.A.A. ED: P.A.A. ED: P.A.A. PERFECTO A. ARCA RCE # 28918