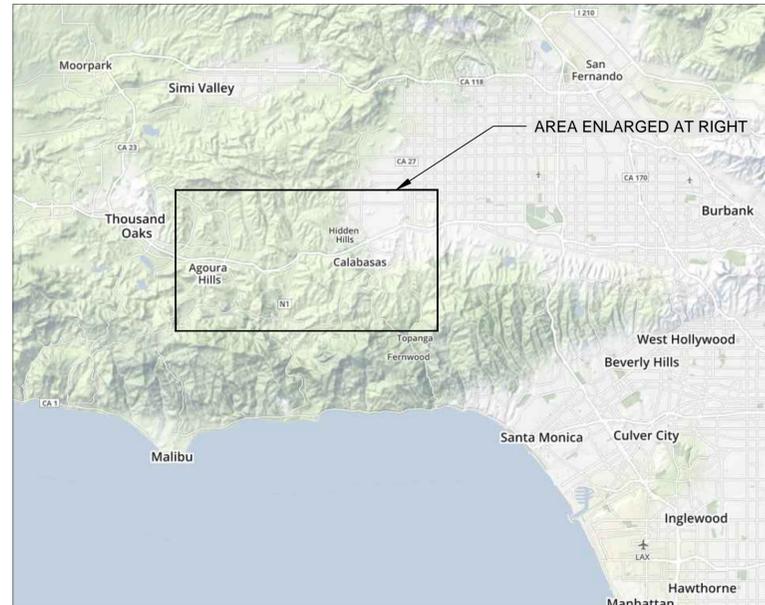
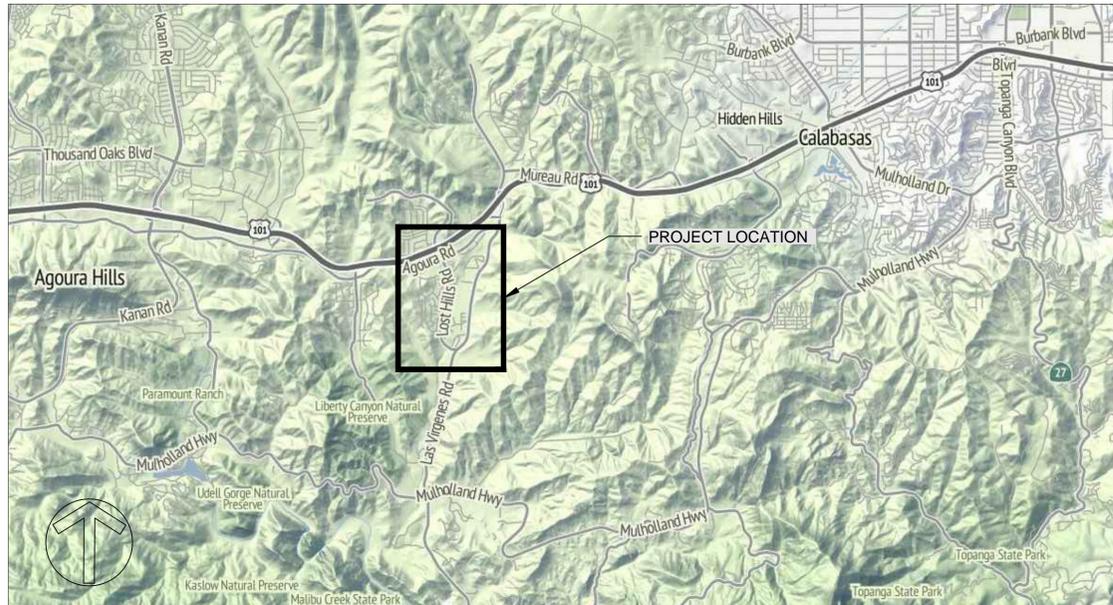


LAS VIRGENES CREEK RESTORATION PROJECT - PHASE II

CITY OF CALABASAS, CA



AREA MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

DRAWING INDEX

1.	TITLE SHEET & DRAWING INDEX
2.	VEGETATION MANAGEMENT, DEBRIS REMOVAL AND DEMOLITION OVERVIEW AND KEY MAP
3 - 8.	VEGETATION MANAGEMENT, DEBRIS REMOVAL AND DEMOLITION PLAN SHEETS.
9.	VEGETATION MANAGEMENT TABLES

GENERAL NOTES

- DESIGN INTENT:** THESE PLANS AND SPECIFICATIONS REPRESENT THE DESIGN INTENT OF QUESTA ENGINEERING CORPORATION (THE ENGINEER), AS APPROVED BY THE OWNER, CITY OF CALABASAS. THE CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS SHOWN ON THESE PLANS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS AND ASSOCIATED RISK AND EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A COPY OF THE APPROVED PLANS AND SPECIFICATIONS AND ANY ADDENDA AT THE JOB SITE AT ALL TIMES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CITY OF CALABASAS OF ANY UNFORESEEN CIRCUMSTANCES OR CONDITIONS THAT WOULD ALTER THESE PLANS AND SPECIFICATIONS FOR APPROVAL OF MODIFICATIONS TO THE INTENDED DESIGN.
- BASE MAP:** THE PROPOSED IMPROVEMENTS SHOWN ON THESE DRAWINGS ARE SUPERIMPOSED ON A BASE MAP. THIS BASE MAP IS COMPILED FROM AERIAL AND GROUND SURVEYS, AND OTHER DATA AS MADE AVAILABLE TO THE ENGINEER, WHO SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS OR OTHER ERRORS ON THESE DOCUMENTS. THE COMPOSITE BASE MAP IS PROVIDED AS AN AID ONLY AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS AND INCORPORATING/INTEGRATING ALL CONSTRUCTION AS REQUIRED TO ACCOMMODATE THE SAME. BOUNDARY LINES SHOWN ARE APPROXIMATE AND FOR INFORMATIONAL PURPOSES ONLY.
- DISCREPANCIES:** IN THE EVENT THAT SUBGRADE OBSTRUCTIONS ARE ENCOUNTERED OR DISCREPANCIES ARE FOUND BETWEEN THE DRAWINGS AND FIELD CONDITIONS, NOTIFY ENGINEER OR CITY OF CALABASAS FOR DIRECTIONS. DO NOT PROCEED WITH THE WORK WITHOUT DIRECTION FROM THE ENGINEER.
- PRECONSTRUCTION MEETING:** A PRECONSTRUCTION MEETING ATTENDED BY THE CONTRACTOR, CITY OF CALABASAS REPRESENTATIVE, AND OTHERS AS APPROPRIATE, WILL BE HELD WITHIN FIFTEEN (15) DAYS OF AWARD OF CONTRACT TO DISCUSS THE WORK. SUBMIT ALL REQUIRED DOCUMENTS, REQUESTS, AND PROPOSALS AT THIS MEETING FOR DISCUSSION.
- UTILITIES:** CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES IN THE PROJECT AREA A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR MUST INVESTIGATE AND VERIFY THE LOCATION OF ANY EXISTING UTILITIES WITHIN THE PROJECT AREA. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE, AND PROTECT ALL UNDERGROUND UTILITIES. ANY UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE CONSIDERED TENTATIVE AND APPROXIMATIONS AND THEREFORE, NO WARRANTY EXPRESSED OR IMPLIED IS MADE AS TO THE COMPLETENESS OR CORRECTNESS OF THEIR LOCATION. THE UTILITY COMPANIES ARE THOUGHT TO BE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ON-CALL PROGRAM. THE CONTRACTOR SHALL NOTIFY U.S.A. 72-HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK AT 811 FROM 7:00 AM TO 5:00 PM, MONDAY THROUGH FRIDAY. EXISTING PUBLIC UTILITIES SHALL BE KEPT IN SERVICE AT ALL TIMES. UTILITIES THAT INTERFERE WITH THE WORK TO BE PERFORMED SHALL BE PROTECTED AS REQUIRED BY CITY OF CALABASAS AND ALL OTHER AFFECTED ENTITIES. DAMAGE TO UTILITIES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CITY OF CALABASAS AND TO THE SATISFACTION OF THE

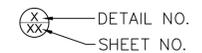
ENGINEER AND OWNER. POTHOLING IS REQUIRED.

- RESOURCE PROTECTION:** THE CONTRACTOR IS ADVISED OF THE PRESENCE OF SENSITIVE RESOURCES LOCATED NEAR PROJECT WORK AREAS. THE TRAIL ALIGNMENT, FENCING, STAGING AREAS AND ALL OTHER PROJECT FACILITIES HAVE BEEN CAREFULLY LOCATED TO MINIMIZE DISTURBANCE OF SENSITIVE RESOURCES. THE LIMITS OF WORK ARE SHOWN ON THE DRAWINGS. ALL CONTRACTOR ACTIVITIES, INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION ACTIVITIES, VEHICLE MAINTENANCE, AND MATERIALS AND EQUIPMENT STORAGE AND STAGING, MUST BE STRICTLY CONFINED TO THE WORK AREAS SHOWN ON THE DRAWINGS. THE LIMITS OF WORK WILL BE CAREFULLY LOCATED IN THE FIELD BY THE CONTRACTOR AND ENGINEER OF RECORD, AND ALL WORK LIMIT AREAS WILL BE PROTECTED BY STRAW WATTLES, CONSTRUCTION BARRIER FENCING, OR SILT FENCING AS SHOWN ON THE DRAWINGS.
- BIOLOGICAL AND CULTURAL RESOURCE MONITOR:** CITY OF CALABASAS WILL PROVIDE A QUALIFIED BIOLOGICAL/ARCHEOLOGICAL MONITOR THAT WILL INITIALLY REVIEW SITE CONSTRUCTION PROTOCOLS WITH ALL CONSTRUCTION CONTRACTOR EMPLOYEES AT A PRE-CONSTRUCTION MEETING THAT WILL BE SPECIFICALLY HELD ON RESOURCE PROTECTION. EACH EMPLOYEE ASSIGNED TO THIS PROJECT MUST PARTICIPATE IN THIS PRE-CONSTRUCTION MEETING AND DISCUSSION OF ADJACENT SENSITIVE RESOURCES, AND SIGN A STATEMENT INDICATING THAT THEY HAVE READ AND UNDERSTOOD THE PROTOCOLS AND AGREE TO ADHERE TO THEM. SIGNIFICANT BREACHES OF PROTOCOL AND FAILURE TO ADEQUATELY PROVIDE THE DEGREE OF RESOURCE PROTECTION REQUIRED BY THIS PROJECT WILL RESULT IN THE ISSUANCE OF A STOP WORK ORDER BY THE ENGINEER OR BY THE MONITOR. CITY OF CALABASAS PROVIDED MONITOR WILL CAREFULLY INSPECT ALL WORK AREAS FOR THE PRESENCE OF WILDLIFE OR CULTURAL RESOURCES PRIOR TO INSTALLATION OF PROTECTIVE BARRIER FENCING AND FIELD FENCING, AND PRIOR TO INITIATION OF CONSTRUCTION EACH DAY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PENALTIES AND ALL REPAIRS AND MITIGATIONS IMPOSED DUE TO BREACH OF PROTOCOL AND UNAUTHORIZED INTRUSION INTO SENSITIVE RESOURCE AREAS.
- CONTRACTOR RESPONSIBILITY:** BY ENTERING INTO THIS CONTRACT WITH CITY OF CALABASAS, THE CONTRACTOR AGREES TO HAVING EXAMINED THE SITE, COMPARING THE SITE CONDITIONS WITH THE DRAWINGS AND SPECIFICATIONS AND HAS CAREFULLY EXAMINED ALL OF THE CONTRACT DOCUMENTS AND IS SATISFIED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. NO ALLOWANCE SHALL BE MADE SUBSEQUENTLY ON BEHALF OF THE CONTRACTOR DUE TO FAILURE TO BE ACQUAINTED WITH THE CONDITIONS OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS. CONTRACTOR SHALL PROTECT ALL EXISTING ON-SITE AND OFF-SITE IMPROVEMENTS AGAINST DAMAGE RESULTING FROM OPERATIONS. RESPONSIBILITY EXTENDS TO THE CONTRACTOR'S WORKERS, SUBCONTRACTORS AND OTHERS PROVIDING SERVICES. CONTRACTOR SHALL REPAIR AND/OR REPLACE DAMAGE AT THEIR OWN EXPENSE AND TO THE SATISFACTION OF THE ENGINEER AND CITY OF CALABASAS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD CITY OF CALABASAS AND THE ENGINEER (QUESTA ENGINEERING CORPORATION) HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FROM LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF CITY OF CALABASAS OR THE ENGINEER. THIS REQUIREMENT

SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

- JOB SITE CONDITIONS:** CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, TRAFFIC CONTROL, ACCESS TO AND FROM ADJOINING DRIVEWAYS AND STREETS, AND ANY LANE CLOSURES. TRASH GENERATED BY THIS WORK (CONSTRUCTION DEBRIS, PAPER, BOTTLES, CIGARETTES, ETC) SHALL BE REMOVED ON A DAILY BASIS. CONTRACTOR SHALL CONTROL DUST AT ALL TIMES WITH WATER.
- SAFETY AND TRAFFIC CONTROL:** ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS AS SET FORTH BY THE FEDERAL DEPARTMENT OF LABOR AND/OR THE STATE OF CALIFORNIA AND CITY OF CALABASAS. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALTRANS MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OF WORK ZONES. ALL SIGNS SHALL BE APPROPRIATELY CONSTRUCTED WITH REFLECTIVE MATERIAL ON A BACKING OF METAL OR FABRIC (NO WOOD OR PLASTIC ALLOWED) AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROVIDE PROPER VISIBILITY, PER SECTION 12 OF THE CALTRANS SPECIAL PROVISIONS. THE CONTRACTOR SHALL MAINTAIN REASONABLE ACCESS TO ALL ROADWAYS DURING CONSTRUCTION
- SPECIFICATIONS:** REFER TO THE SPECIFICATIONS THAT ARE A PART OF THESE CONTRACT DOCUMENTS. COMPLY WITH ALL REGULATIONS AND CODES GOVERNING WORK PERFORMED UNDER THIS CONTRACT. REFER TO CALTRANS STANDARD PLANS AND SPECIFICATIONS AS REQUIRED.
- MISCELLANEOUS:** WRITTEN DIMENSIONS ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS IF THERE IS A CONFLICT. THE CONTRACTOR SHALL CONTACT CITY OF CALABASAS TO OBTAIN ADDITIONAL CLARIFICATION. NO DEVIATION OR SUBSTITUTION SHALL BE ALLOWED WITHOUT OBTAINING PRIOR WRITTEN APPROVAL FROM CITY AND THE ENGINEER.
- GEOTECHNICAL REPORT:** QUESTA ENGINEERING CORPORATION, 1220 BRICKYARD COVE ROAD, POINT RICHMOND, CA 94807, (510) 236 - 6114

DETAIL DRAWING DESIGNATION



DETAIL NO.
SHEET NO.

* NOT FOR CONSTRUCTION



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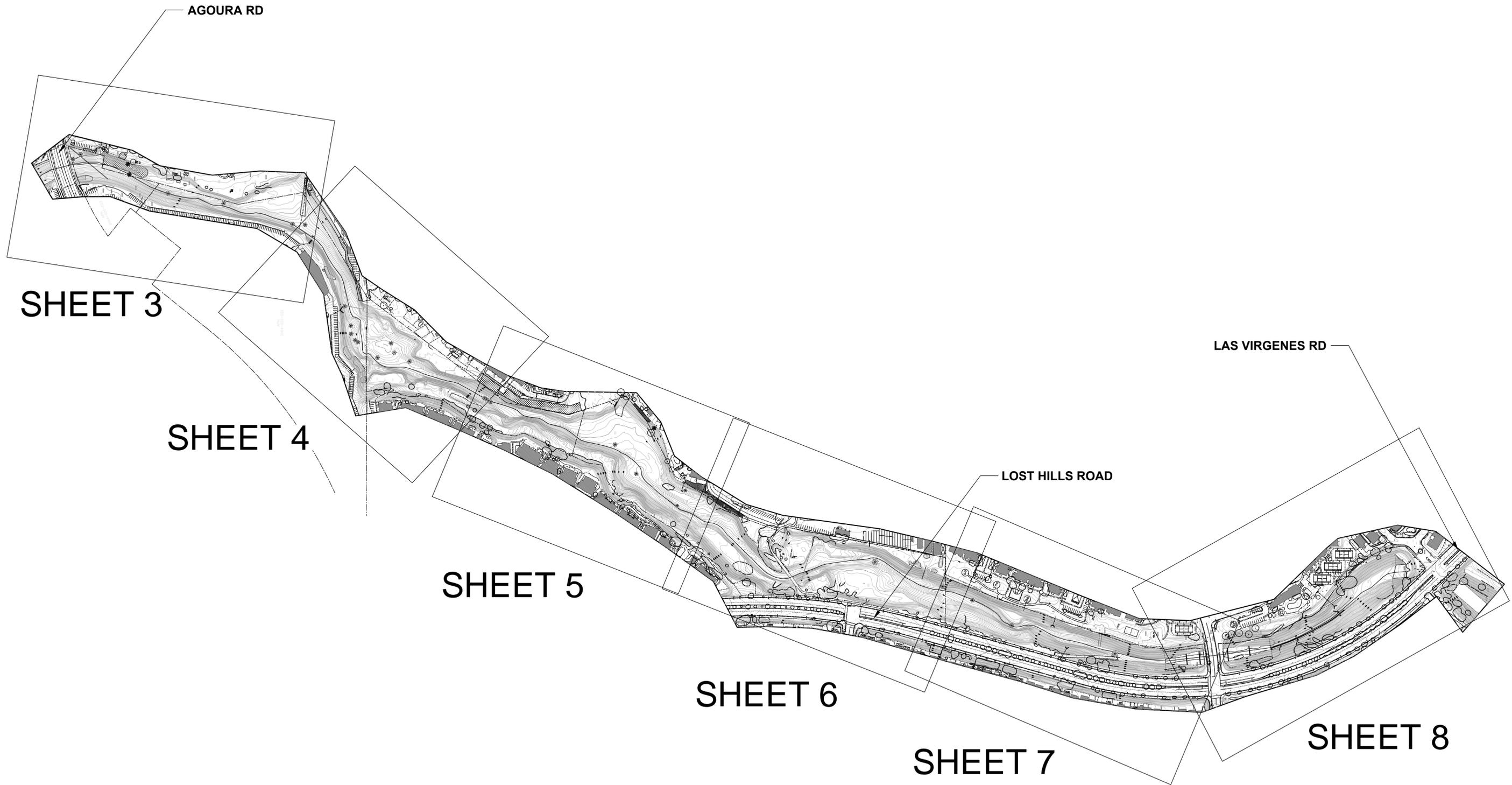
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LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

PROJECT NO.1500058

SHEET NO.

OF : TBD

CONTRACT NO.



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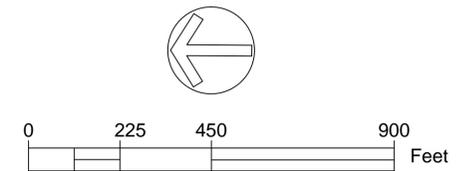
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date: 05-17-2016

VEGETATION MANAGEMENT & DEMO OVERVIEW
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
PROJECT NO.1500058
CONTRACT NO.

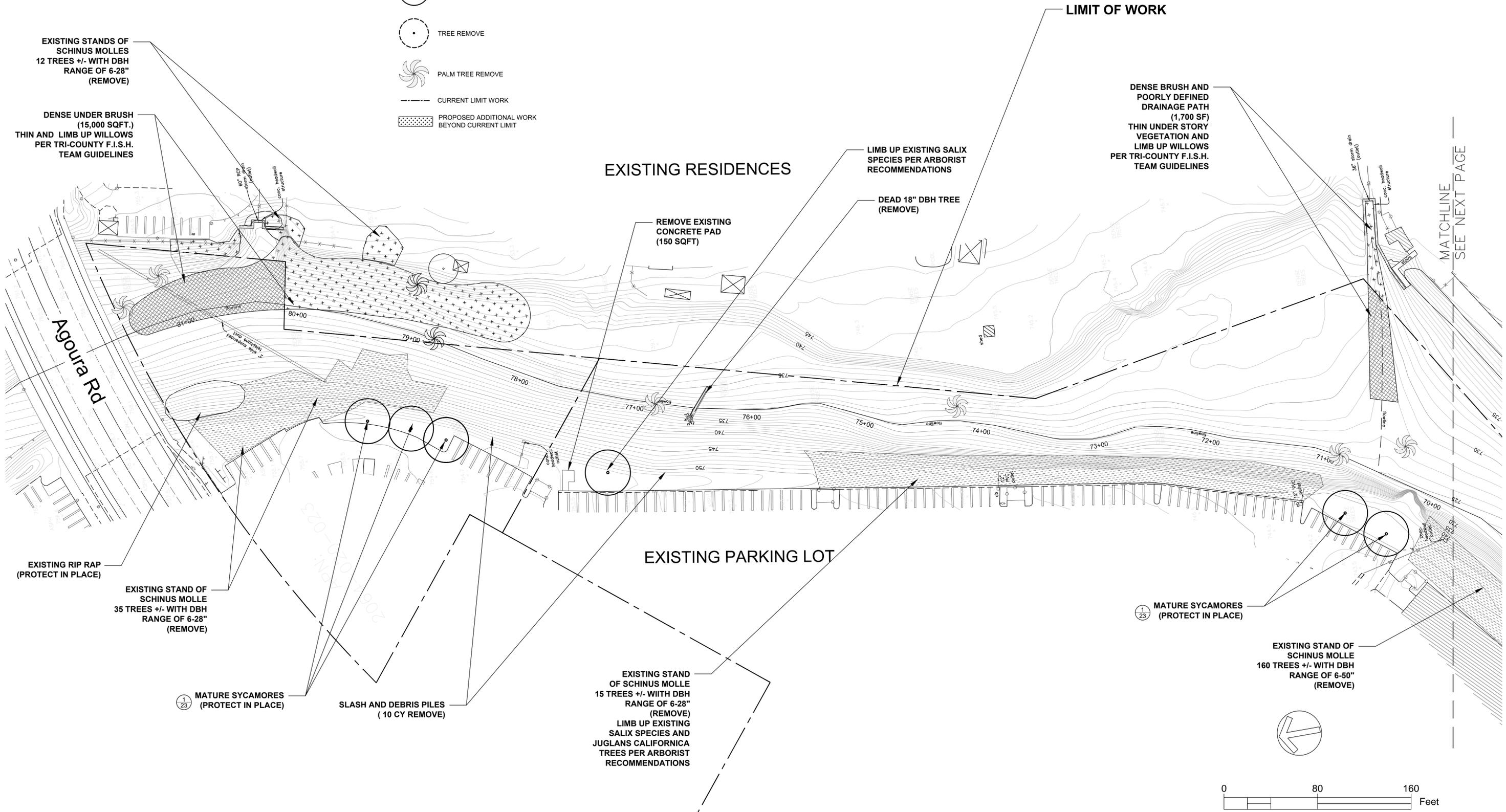


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LEGEND

-  TREE PROTECT IN PLACE (1/23)
-  TREE REMOVE
-  PALM TREE REMOVE
-  CURRENT LIMIT WORK
-  PROPOSED ADDITIONAL WORK BEYOND CURRENT LIMIT



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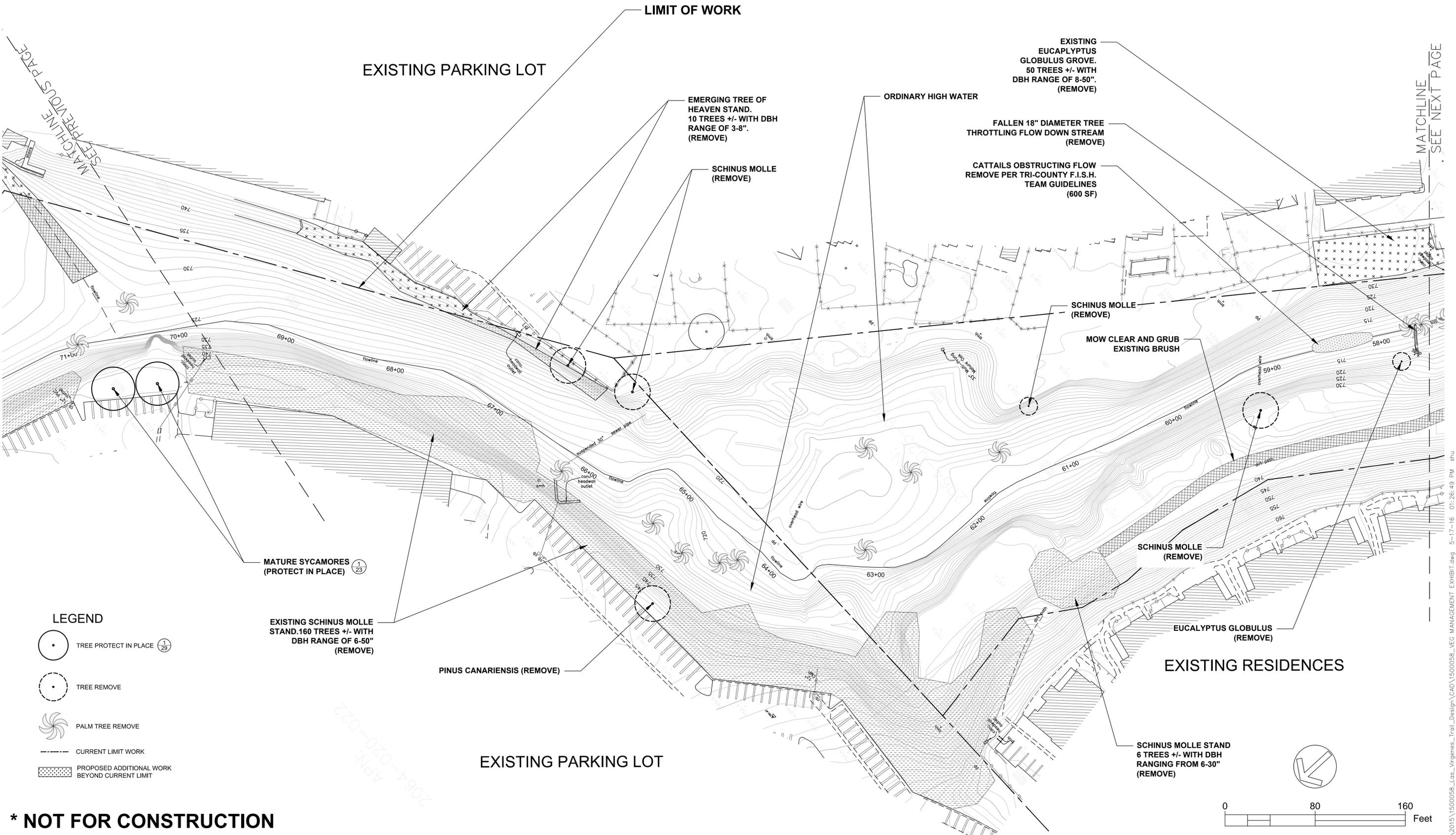
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 CALABASAS, CA
 PROJECT NO.1500058
 CONTRACT NO.

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- LEGEND**
- TREE PROTECT IN PLACE (1/25)
 - TREE REMOVE
 - PALM TREE REMOVE
 - CURRENT LIMIT WORK
 - PROPOSED ADDITIONAL WORK BEYOND CURRENT LIMIT

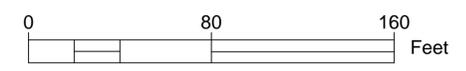
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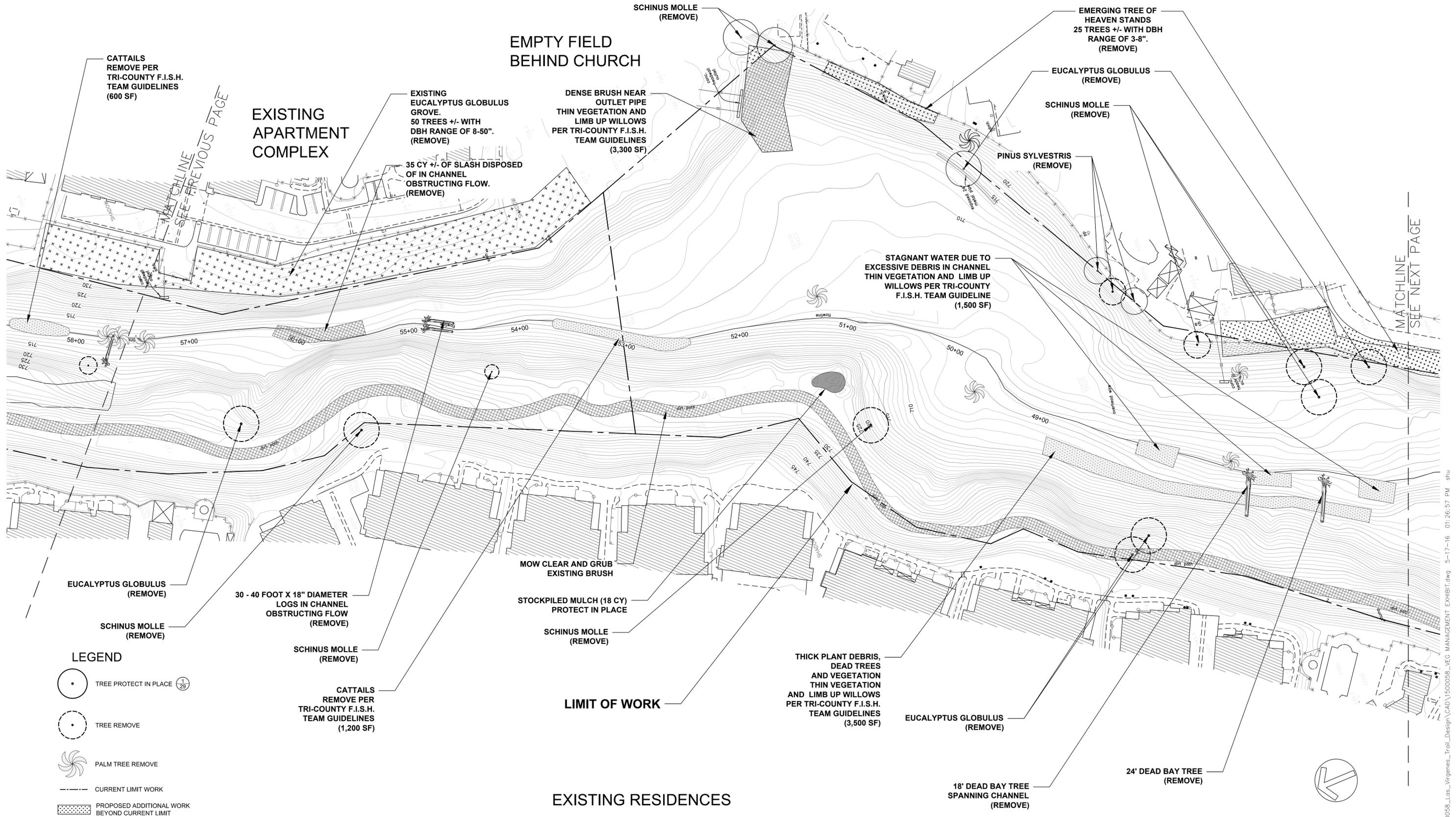
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VEG MANAGEMENT, DEBRIS REMOVAL AND DEMO
 LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
 CALABASAS, CA
 PROJECT NO.1500058



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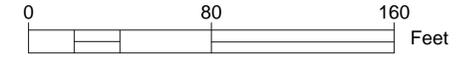
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CALABASAS, CA

PROJECT NO.1500058

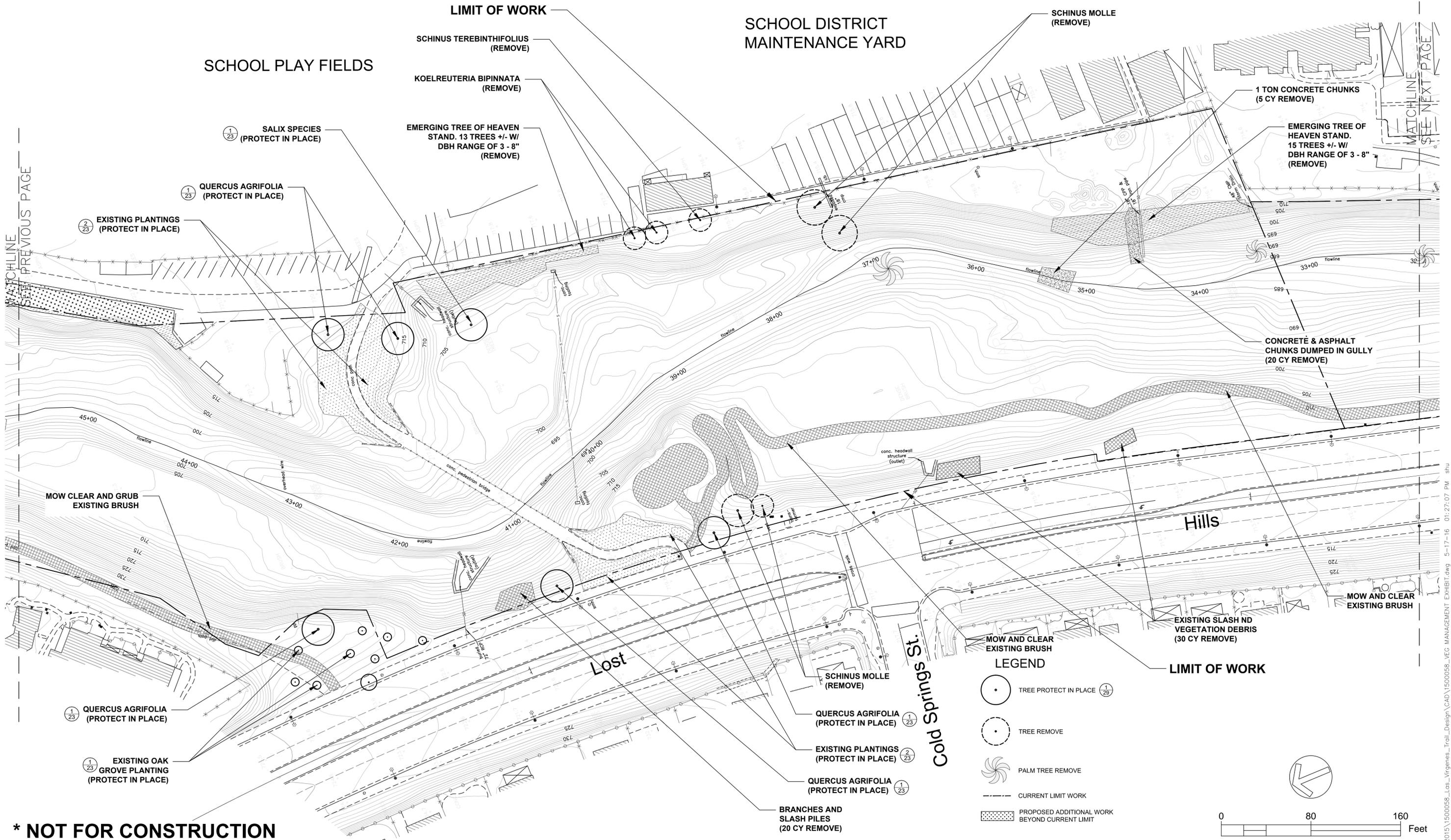
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CONTRACT NO.



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LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
PROJECT NO.1500058

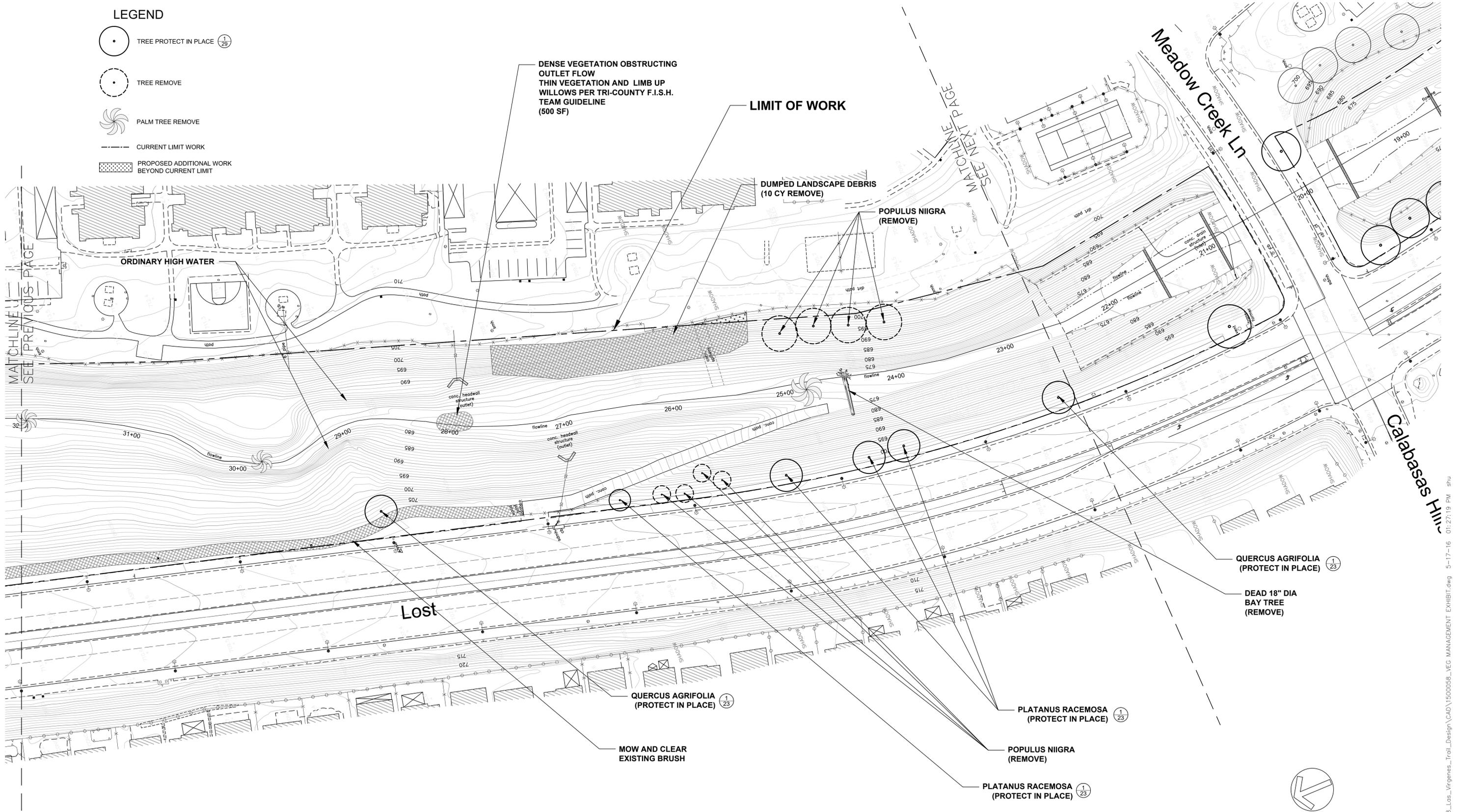
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CONTRACT NO.

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LEGEND

-  TREE PROTECT IN PLACE (1/23)
-  TREE REMOVE
-  PALM TREE REMOVE
-  CURRENT LIMIT WORK
-  PROPOSED ADDITIONAL WORK BEYOND CURRENT LIMIT



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REVISIONS

DATE

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operations:



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date: 05-17-2016

VEG MANAGEMENT, DEBRIS REMOVAL AND DEMO
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

PROJECT NO.1500058

CONTRACT NO.

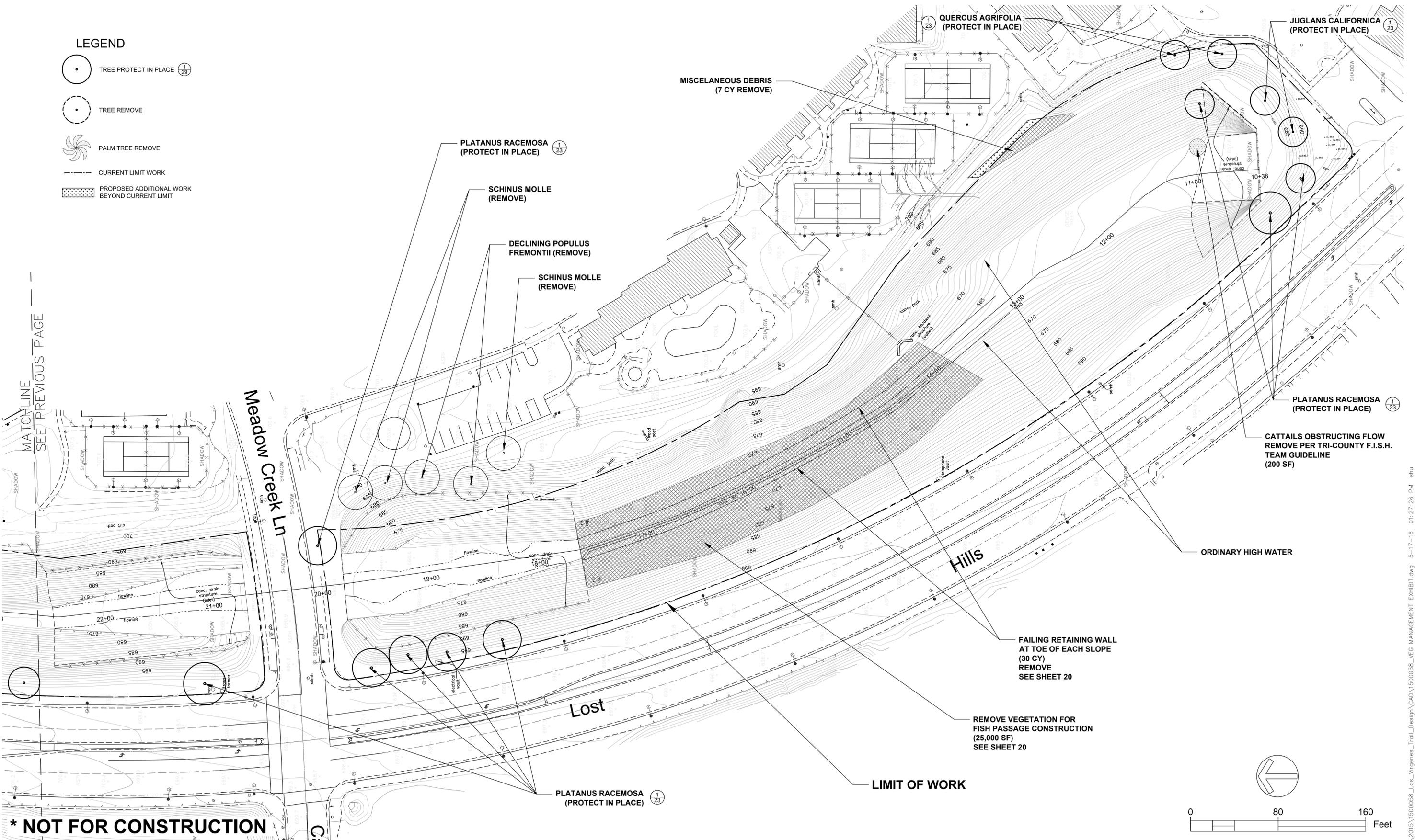
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OF : TBD

LEGEND

-  TREE PROTECT IN PLACE (1/23)
-  TREE REMOVE
-  PALM TREE REMOVE
-  CURRENT LIMIT WORK
-  PROPOSED ADDITIONAL WORK BEYOND CURRENT LIMIT



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Meadow Creek Ln

Hills

Lost

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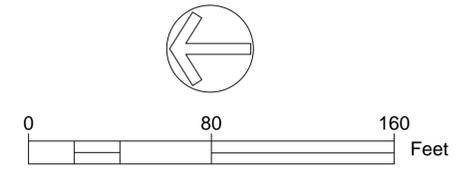
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VEG MANAGEMENT, DEBRIS REMOVAL AND DEMO
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
PROJECT NO.1500058



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OF : TBD

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Las Virgenes Invasive and Non Native Tree Removal						
East Bank						
Common Name	Scientific Name	Total in 2 Year Flood Plain	Total in 10 Year Flood Plain	Total in Upland Area	DBH Range	Removal Priority
Pepper Tree	Schinus molle			15	6-28"	High
Brazilian Pepper Tree	Schinus terebinthifoliosus			40	1 - 6"	High
Blue Gum	Eucalyptus globulus		3	47	8-50"	High
Lombardy Poplar	Populus nigra			4	18-20"	Medium
Chinese Flame Tree	Koelreutria bipinnata			1	12"	Medium
Canary Island Palm	Phoenix canariensis	1			26"	High
Cordylone	Cordylone australis		4		2"	Medium
Scots Pine	Pinus sylvestris			3	16"	Low
Mexican Fan Palm	Washingtonia fimbriata	15	2	3	3" - 36"	High
	Sub-Totals		16	9	113	
West Bank						
Common Name	Scientific Name	Total in 2 Year Flood Plain	Total in 10 Year Flood Plain	Total in Upland Area	DBH Range	Removal Priority
Canary Island Pine	Pinus canariensis			1	24"	High
Pepper Tree	Schinus molle		2	210	6-50"	High
Brazilian Pepper Tree	Schinus terebinthifoliosus	1			26"	High
Blue Gum	Eucalyptus globulus			4	12-36"	High
Common Fig	Ficus carica		3		8-15"	High
Lombardy Poplar	Populus nigra			4	10-14"	Medium
Canary Island Palm	Phoenix canariensis	1			15"	High
Cordylone	Cordylone australis		1		4"	Medium
Mexican Fan Palm	Washingtonia fimbriata	15	2	1	3" - 36"	High
	Sub-Totals		17	8	220	
Total Trees Removed				333		

* Diameter at Breast Height (DBH)

Trees to be Planted					
Common Name	Scientific Name	Size			
		15 gal	5 gal	Deepot	Live Stakes
Sycamore	Platanus racemosa	150	100		
Cottonwood	Populus fremontii			50	
Live Oak	Quercus agrifolia	50	75	50	
Box Elder	Acer negundo			50	
Red Willow	Salix laevigata				400
California Walnut	Juglans californica			50	
	Sub-Totals	200	175	200	400
Total Trees To Be Planted					975

DISTURBED AREA HYDROSEEDING	PATTERN	QTY	
COMMON NAME	SCIENTIFIC NAME	FUNCTION	LBS/ACRE
Yarrow	Achillea millefolium	PERENNIAL	5
Creeping Wild Rye	Elymus triticoides	PERENNIAL	15
California Brome	Bromus carinatus	COVER/PERENNIAL	15
Narrow Leaf Milkweed	Asclepias fascicularis	COVER/PERENNIAL	10
MULCH	N/A	EROSION CONTROL	2000
FERTILIZER	N/A	PLANT ESTABLISHMENT	200
TACKIFIER3	N/A	EROSION CONTROL	200

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REVISIONS

DATE

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VEGETATION MANAGEMENT TABLES
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

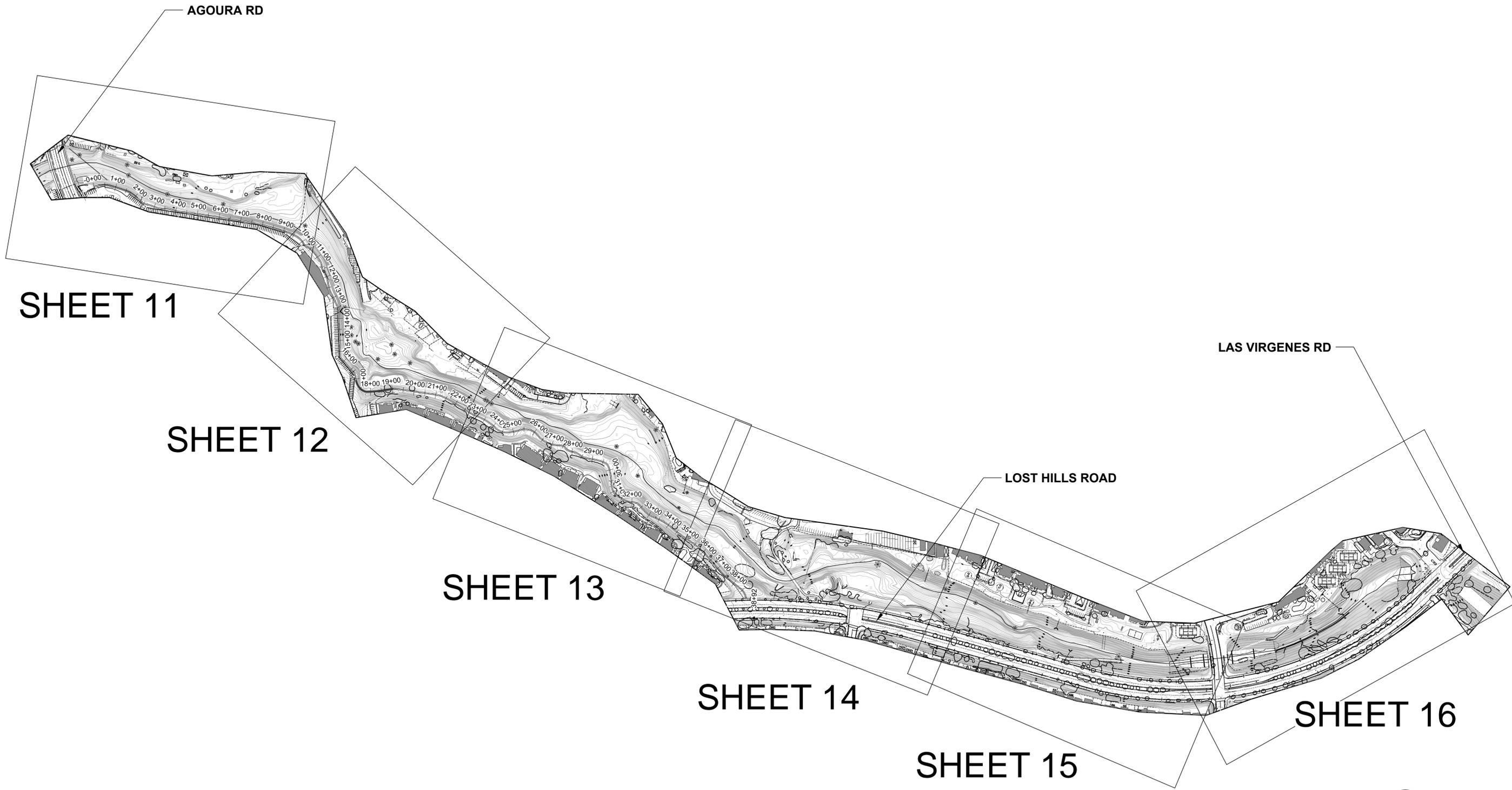
PROJECT NO.1500058

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OF : TBD

CONTRACT NO.



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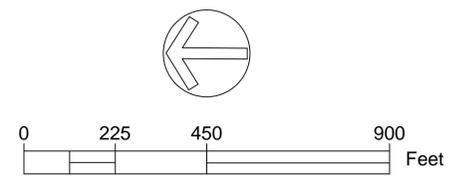
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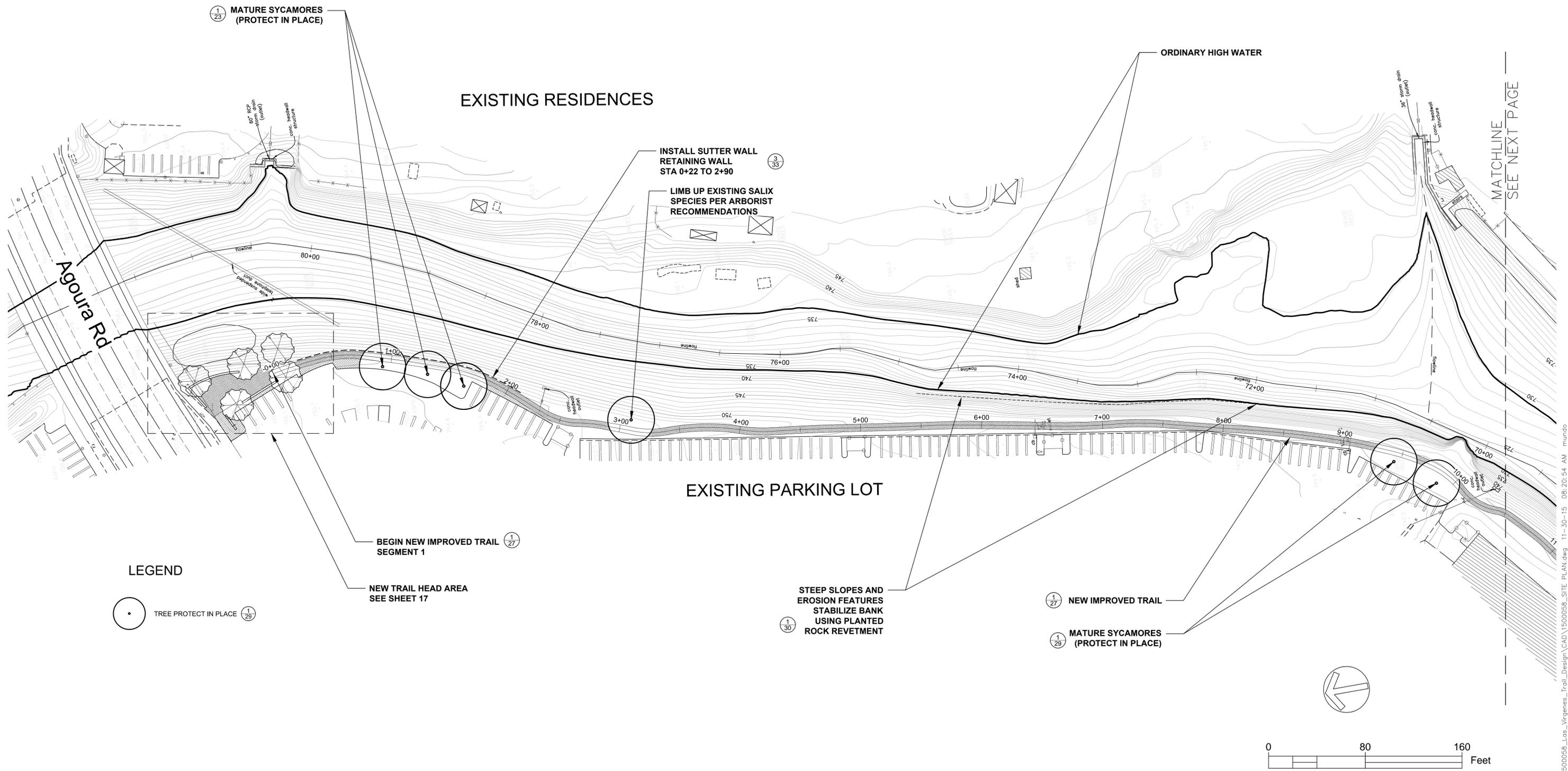
SITE IMPROVEMENTS OVERVIEW
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

PROJECT NO.1500058



CONTRACT NO.

SHEET NO.
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OF : TBD



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REVISIONS DATE



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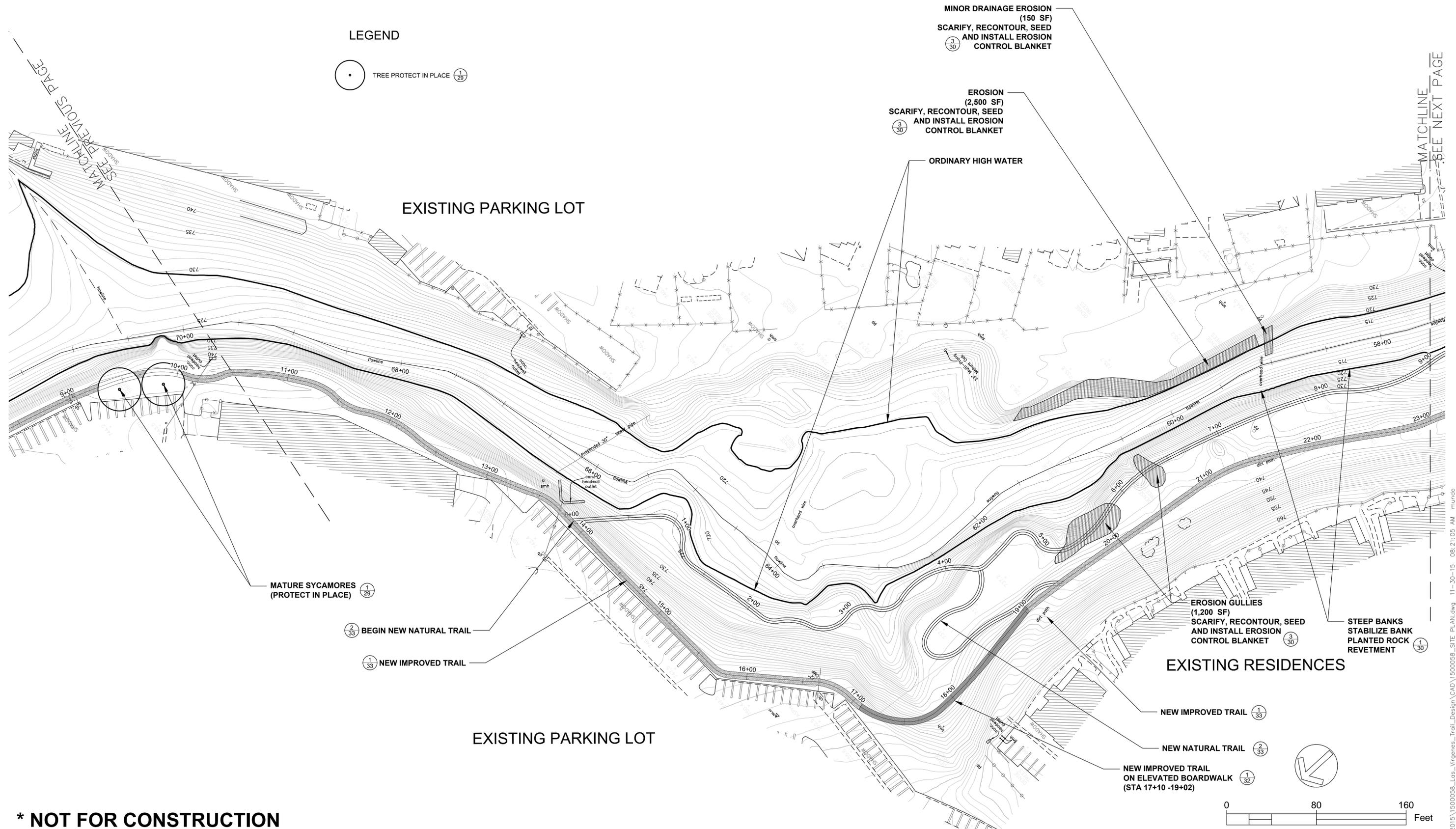


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SITE PLAN
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
PROJECT NO.1500058

CONTRACT NO.

SHEET NO.
11
OF : TBD



*** NOT FOR CONSTRUCTION**



REVISIONS	DATE

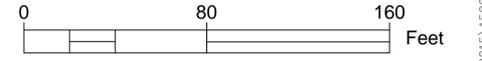
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SITE PLAN
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

PROJECT NO.1500058

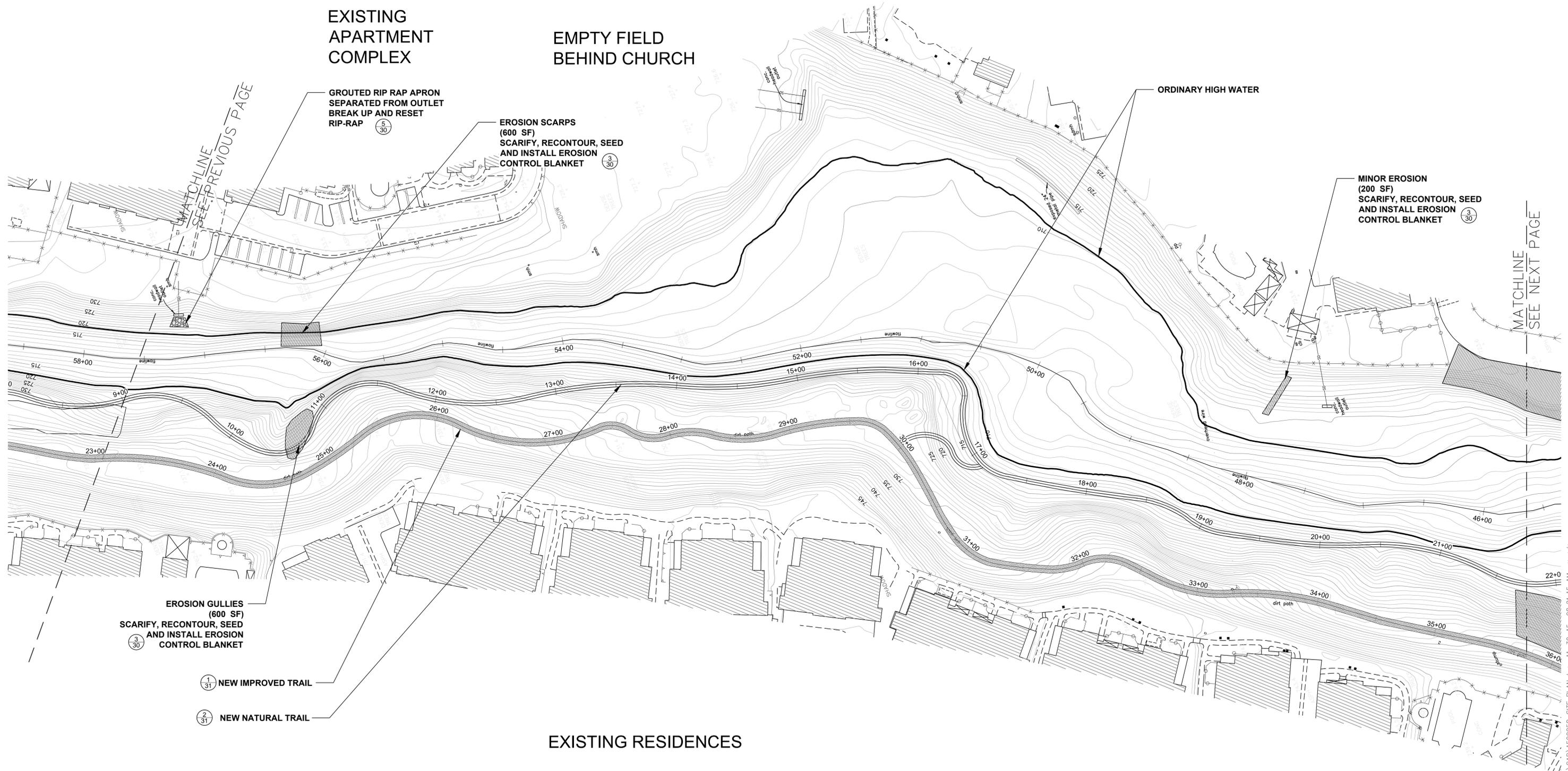


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12
OF : TBD

CONTRACT NO.

EXISTING
APARTMENT
COMPLEX

EMPTY FIELD
BEHIND CHURCH



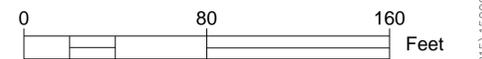
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LEGEND



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date: 11-24-2015

SITE PLAN
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
PROJECT NO.1500058

CONTRACT NO.

SHEET NO.
13
OF : TBD

SCHOOL PLAY FIELDS

LEGEND



SCHOOL DISTRICT
MAINTENANCE YARD

1-2 FOOT LAYER OF
LOOSE SOIL ON SLOPE
(5,000 SF)
RECONTOUR, SEED AND
INSTALL EROSION
CONTROL BLANKET



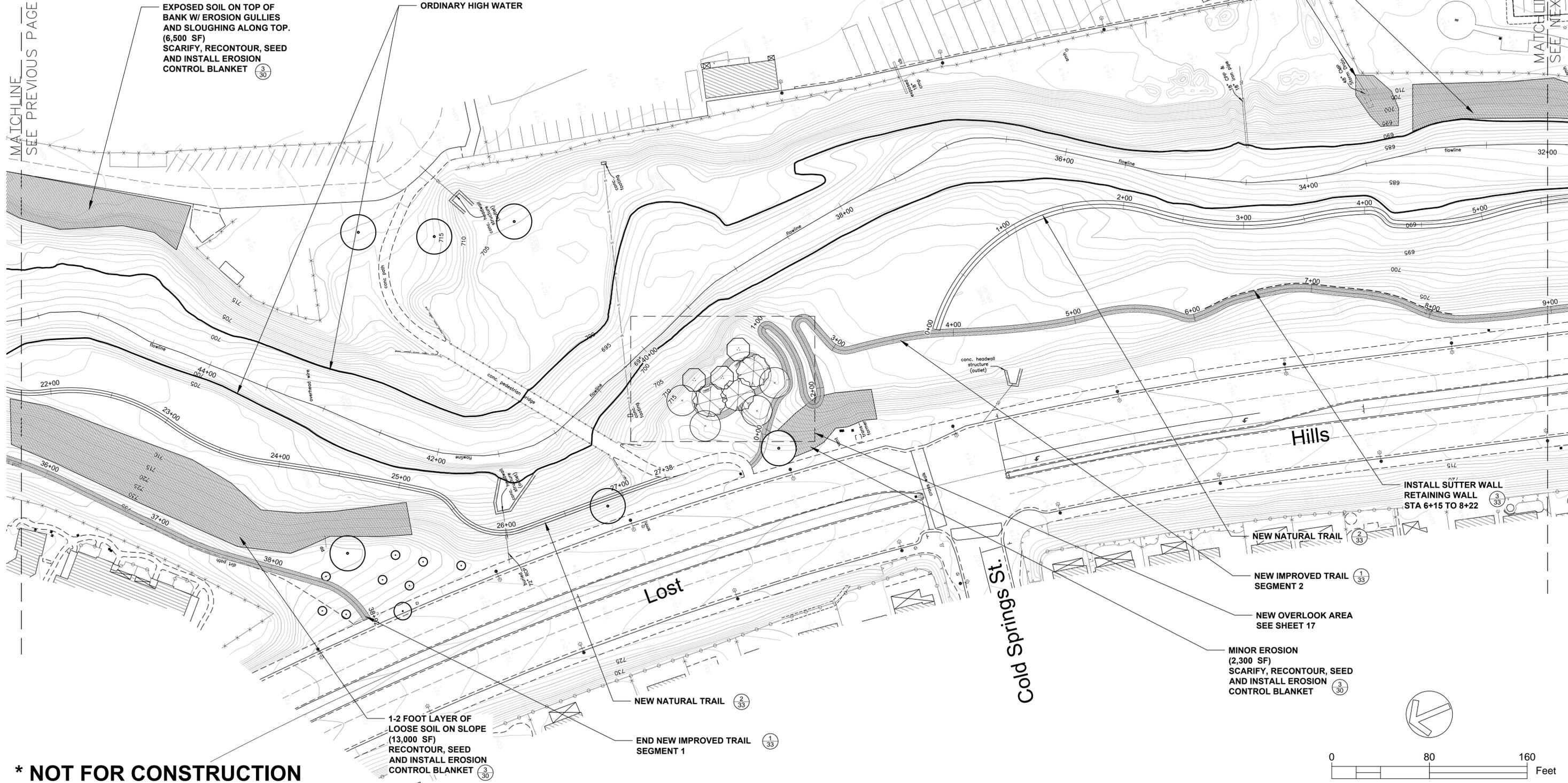
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EXPOSED SOIL ON TOP OF
BANK W/ EROSION GULLIES
AND SLOUGHING ALONG TOP.
(6,500 SF)
SCARIFY, RECONTOUR, SEED
AND INSTALL EROSION
CONTROL BLANKET



ORDINARY HIGH WATER



1-2 FOOT LAYER OF
LOOSE SOIL ON SLOPE
(13,000 SF)
RECONTOUR, SEED
AND INSTALL EROSION
CONTROL BLANKET



NEW NATURAL TRAIL



END NEW IMPROVED TRAIL
SEGMENT 1

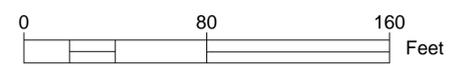


NEW IMPROVED TRAIL
SEGMENT 2



NEW OVERLOOK AREA
SEE SHEET 17

MINOR EROSION
(2,300 SF)
SCARIFY, RECONTOUR, SEED
AND INSTALL EROSION
CONTROL BLANKET



*** NOT FOR CONSTRUCTION**

REVISIONS DATE



APPROVED

design:

operations:



scale: 1" = 40'

drawn: MM

checked: ___

date: 11-24-2015

SITE PLAN
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

PROJECT NO.1500058

SHEET NO.

14

OF : TBD

CONTRACT NO.

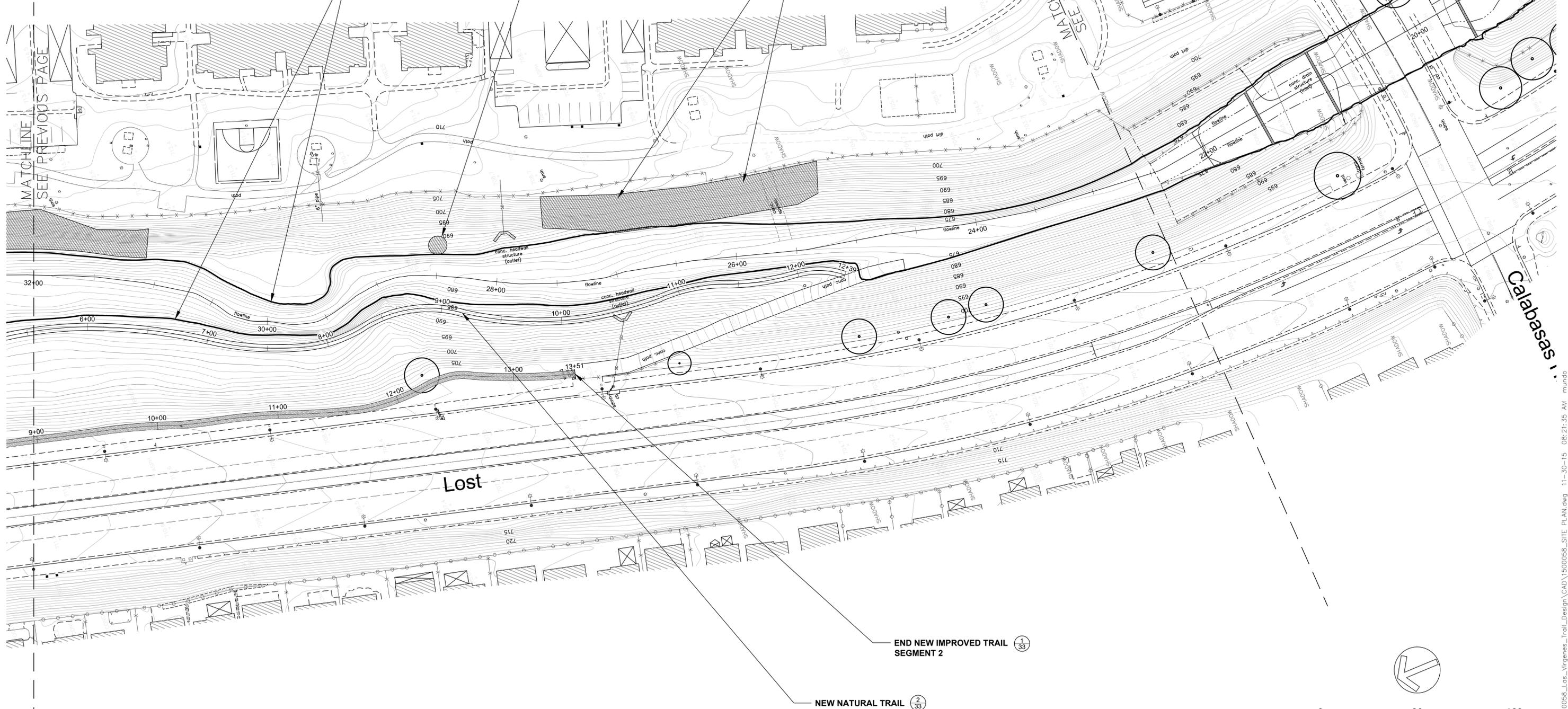
LEGEND



ORDINARY HIGH WATER

EROSION UNDERCUTTING SLOPE
INSTALL PLANTED
ROCK REVETMENT (1/30)

5-6 EROSION GULLIES
AND BARE SOIL ON
SLOPE (13,000 SF)
RECONTOUR, SEED AND
INSTALL EROSION
CONTROL BLANKET (3/30)



*** NOT FOR CONSTRUCTION**

REVISIONS DATE



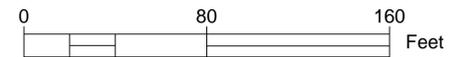
APPROVED
design:
operations:



scale: 1" = 40'
drawn: MM
checked: ___
date: 11-24-2015

SITE PLAN
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
PROJECT NO.1500058

CONTRACT NO.



SHEET NO.
15
OF : TBD

LEGEND



NEW OVERLOOK AREA
SEE SHEET 19

EROSION GULLIES AND
BARE SOIL SLOPES
(6,000 SF)
SCARIFY, RECONTOUR,
SEED AND INSTALL
EROSION CONTROL
BLANKET

FISH PASSAGE
SEE SHEETS 25 - 28

PLATANUS RACEMOSA
(PROTECT IN PLACE)

PLATANUS RACEMOSA
(PROTECT IN PLACE)

SPRAY MULCH TO FILL
VOIDS IN EXISTING RIP RAP
(18,000 SF)

ORDINARY HIGH WATER

PLATANUS RACEMOSA
(PROTECT IN PLACE)

*** NOT FOR CONSTRUCTION**

REVISIONS

DATE

CA

APPROVED

design:

operations:



scale: 1" = 40'

drawn: MM

checked: —

date: 11-24-2015

SITE PLAN
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

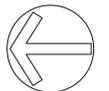
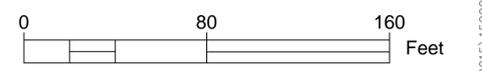
PROJECT NO.1500058

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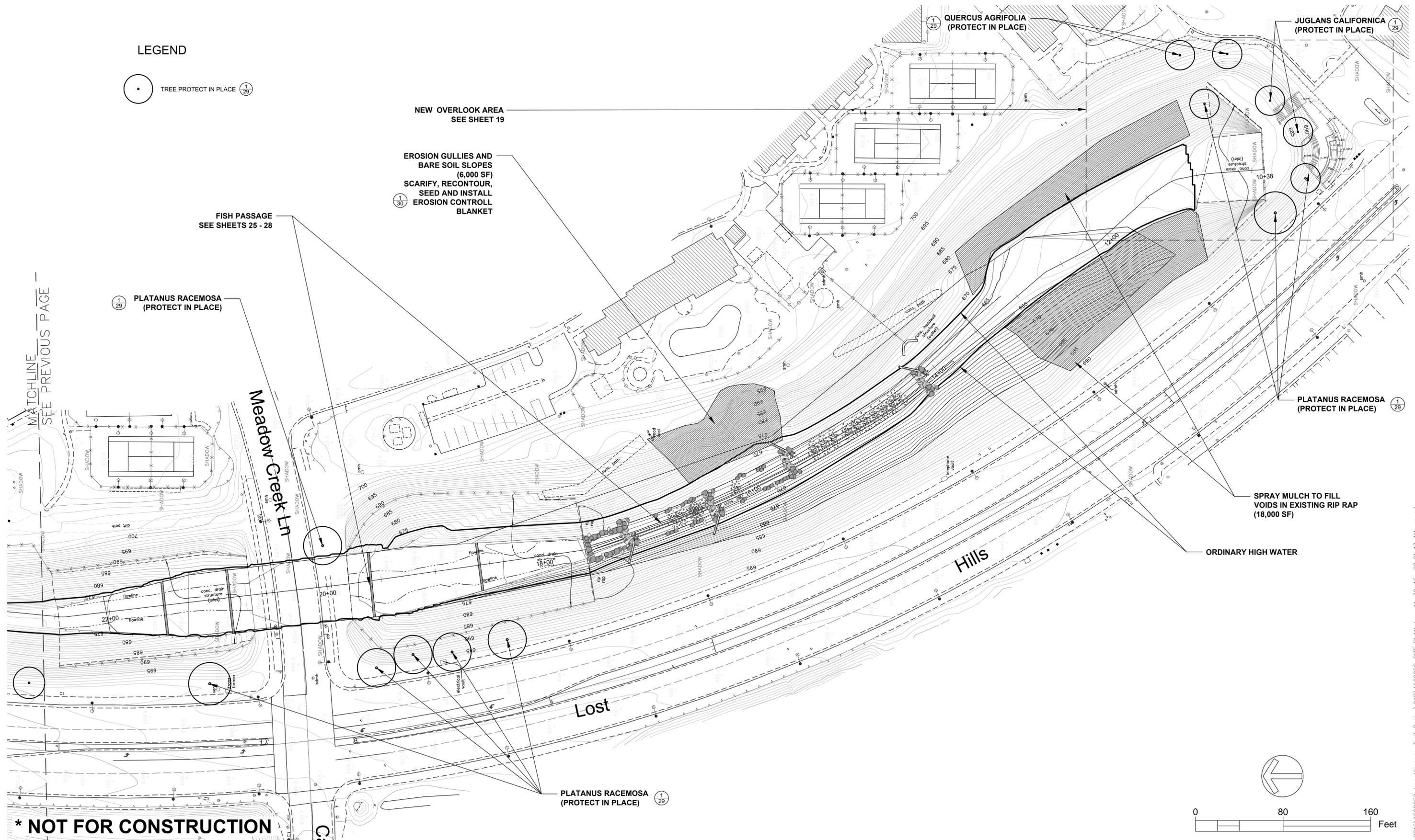
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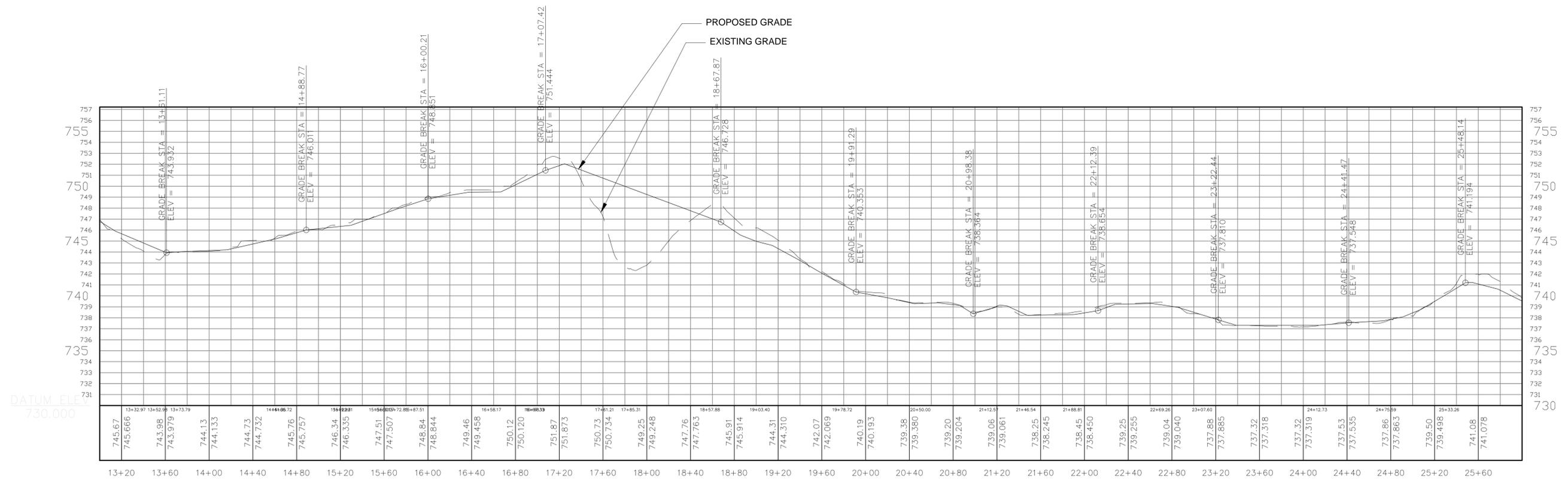
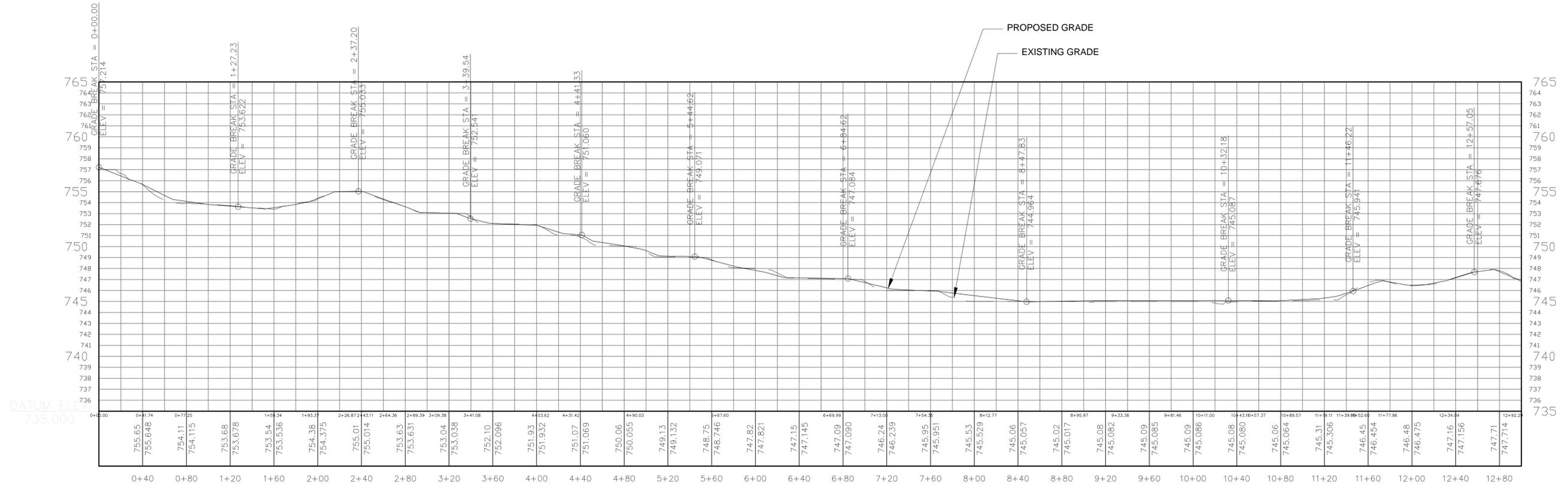
16

OF : TBD



MATCHLINE
SEE PREVIOUS PAGE





REVISIONS DATE

APPROVED

design:

operations:

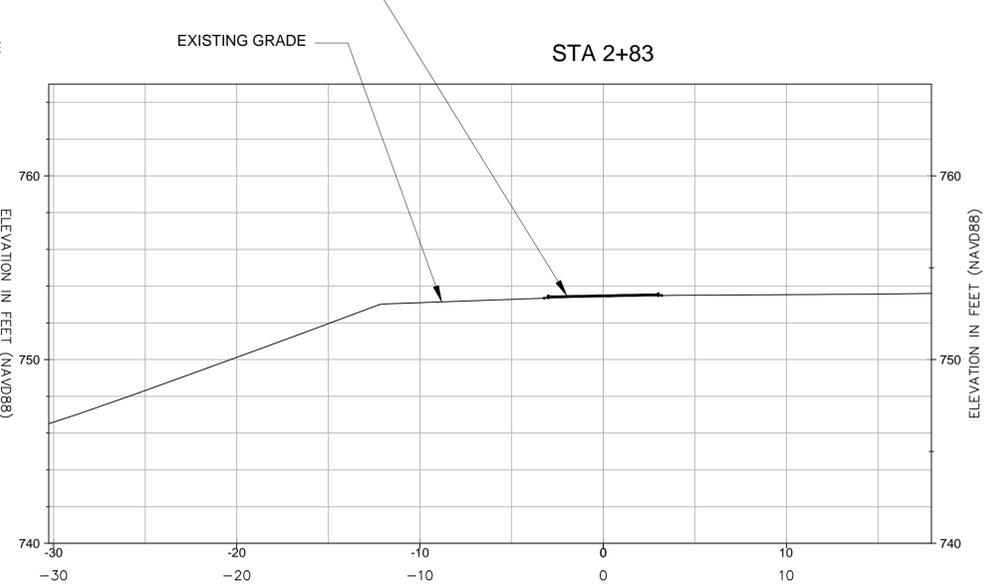
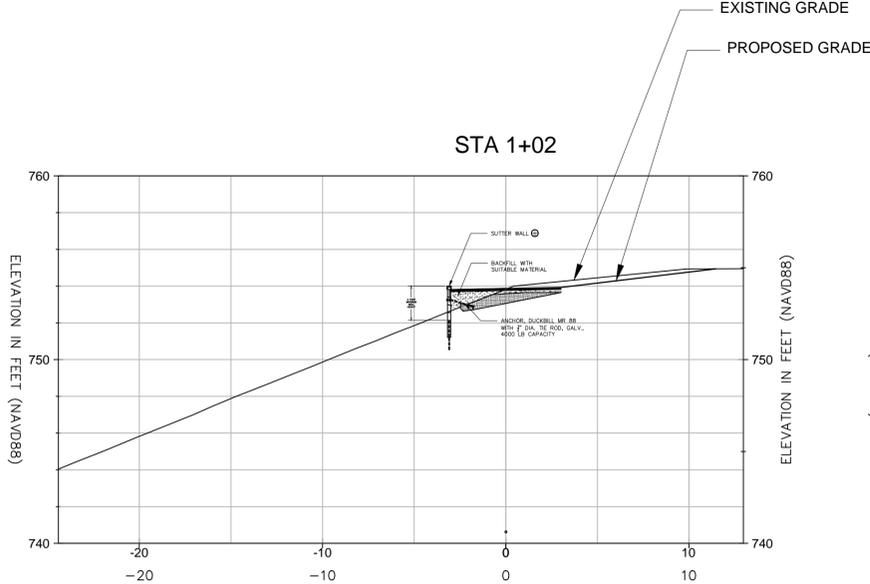
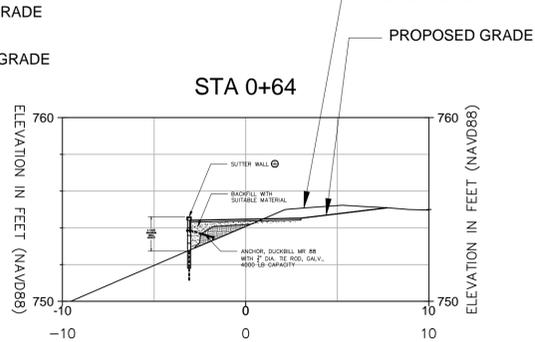
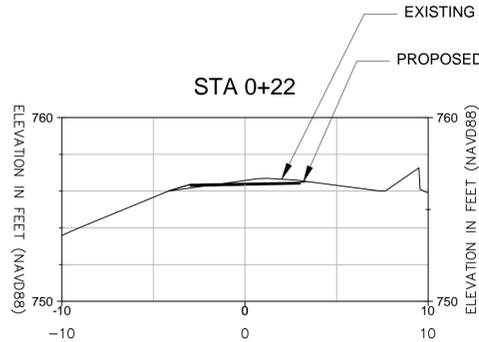
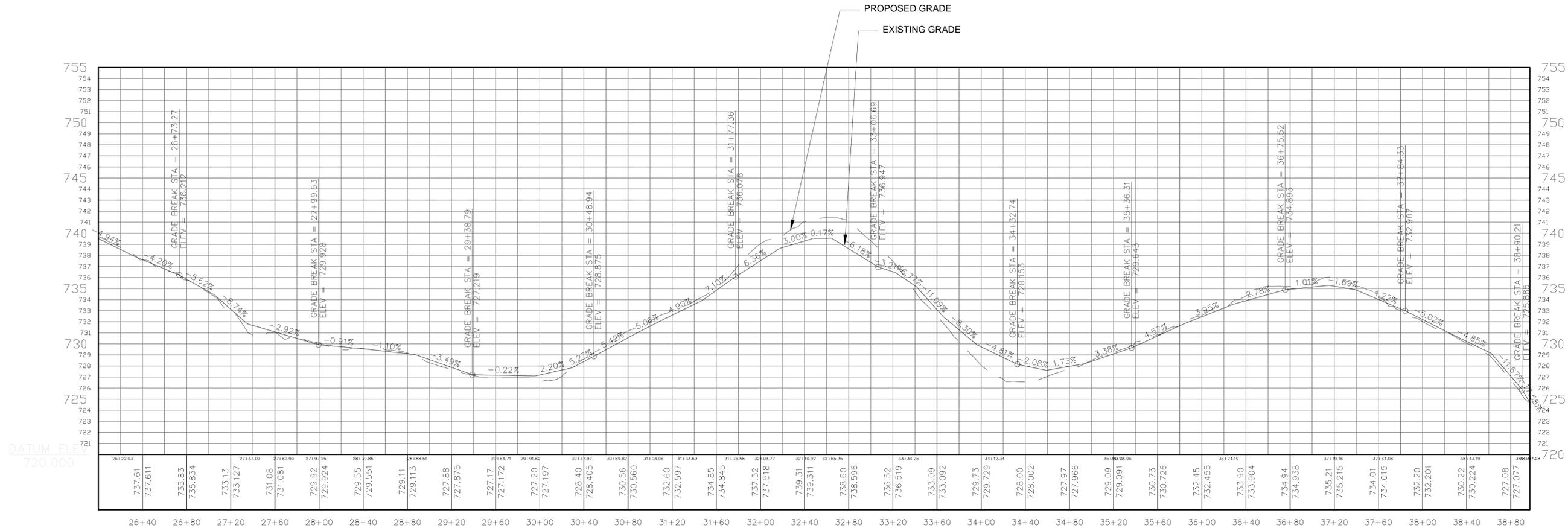


scale:
 drawn: MM
 checked: —
 date: 11/25/15

IMPROVED TRAIL SEGEMENT 1 PROFILES
 LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
 CALABASAS, CA
 PROJECT NO.1500058

CONTRACT NO.

SHEET NO.
 17
 OF : TBD



REVISIONS | DATE

APPROVED
design:
operations:

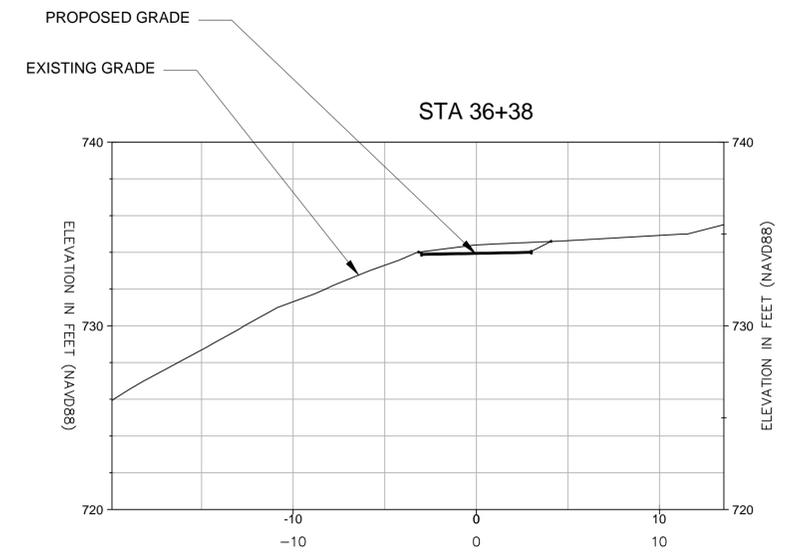
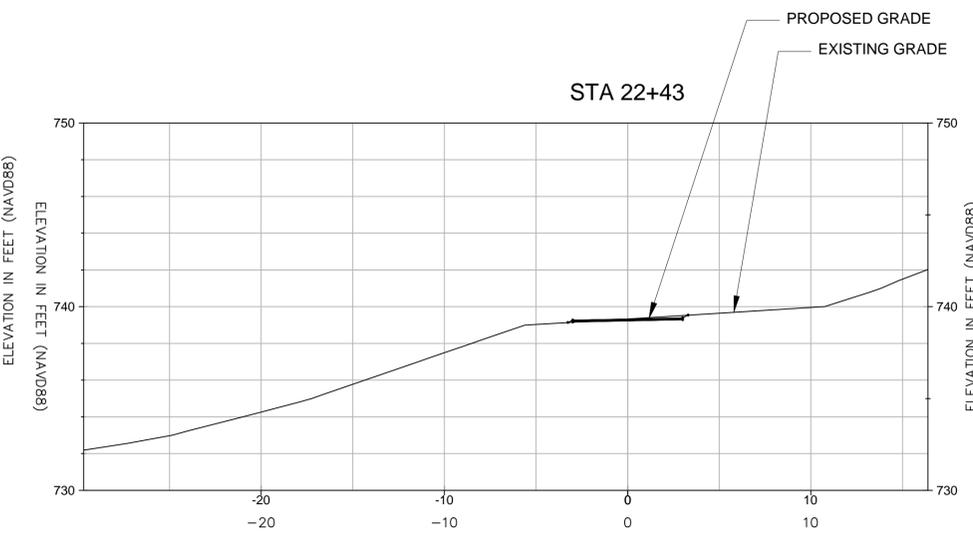
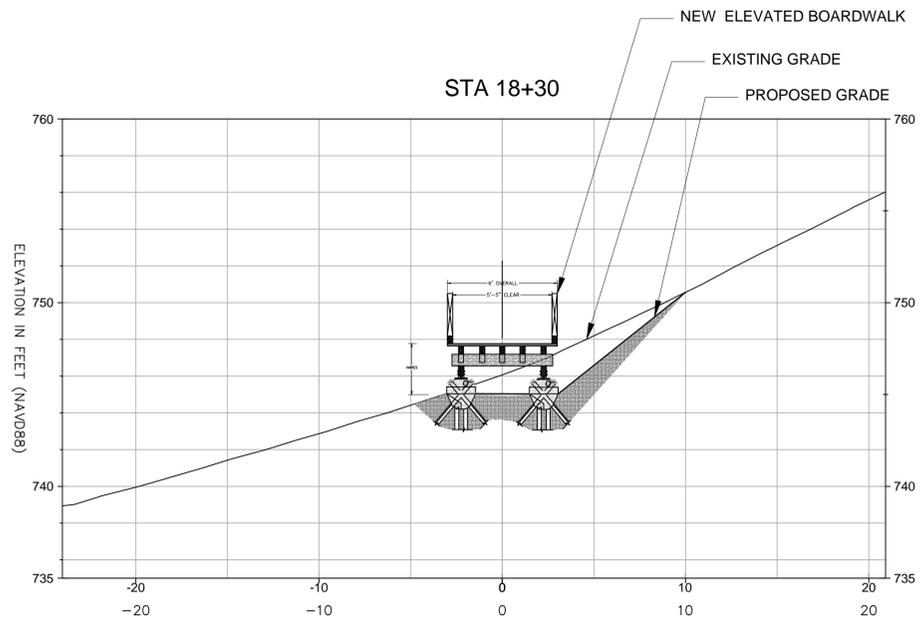
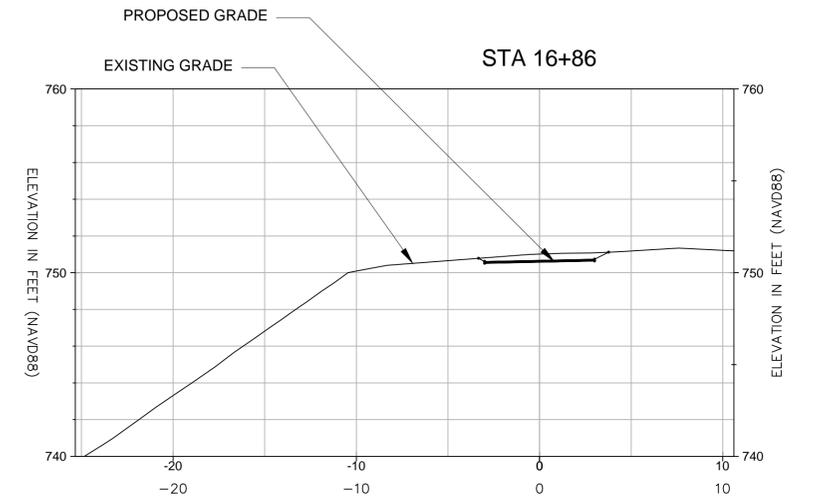
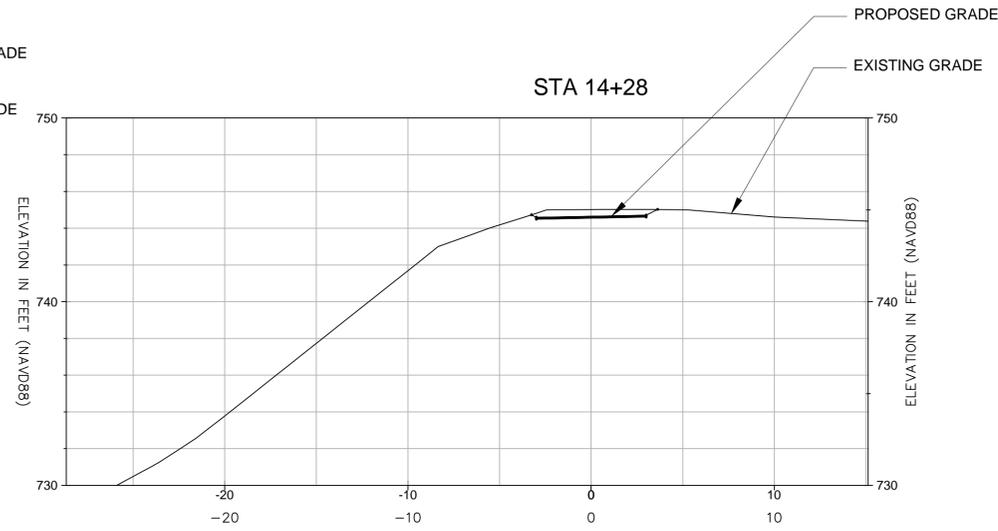
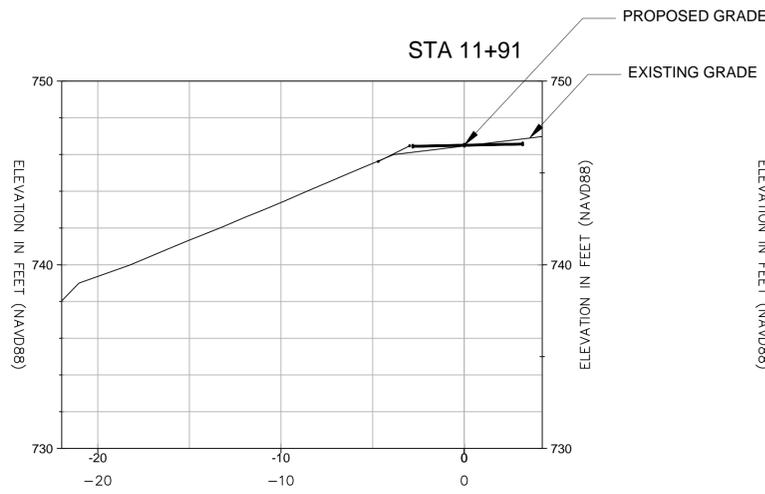
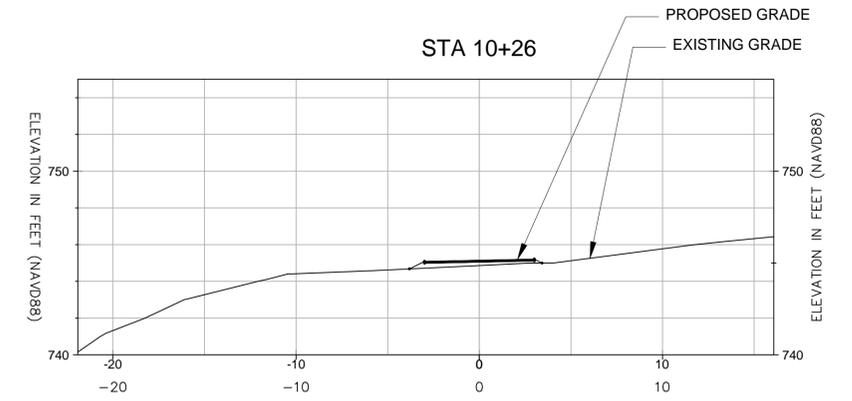
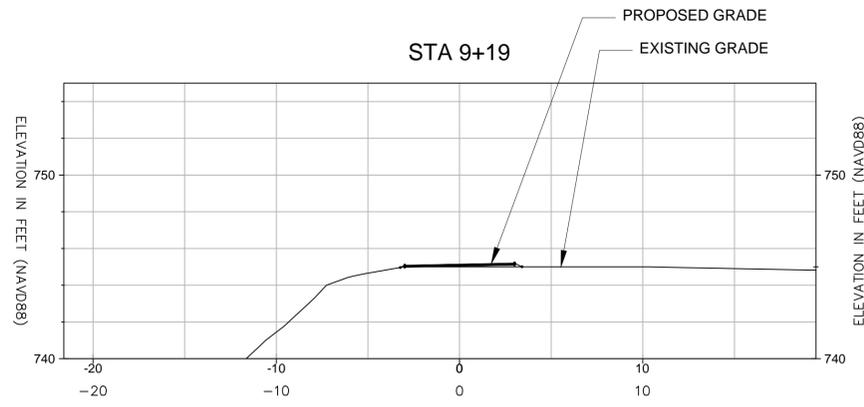
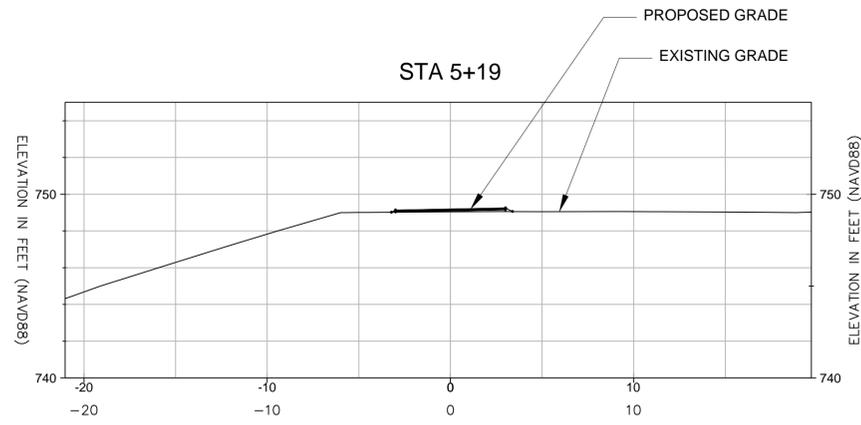


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drawn: MM
checked: ___
date: 11/25/15

IMPROVED TRAIL SEGMENT 1 PROFILES/SECTIONS
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
PROJECT NO.1500058

SHEET NO. 18
OF : TBD

CONTRACT NO.



REVISIONS DATE



APPROVED
design:
operations:



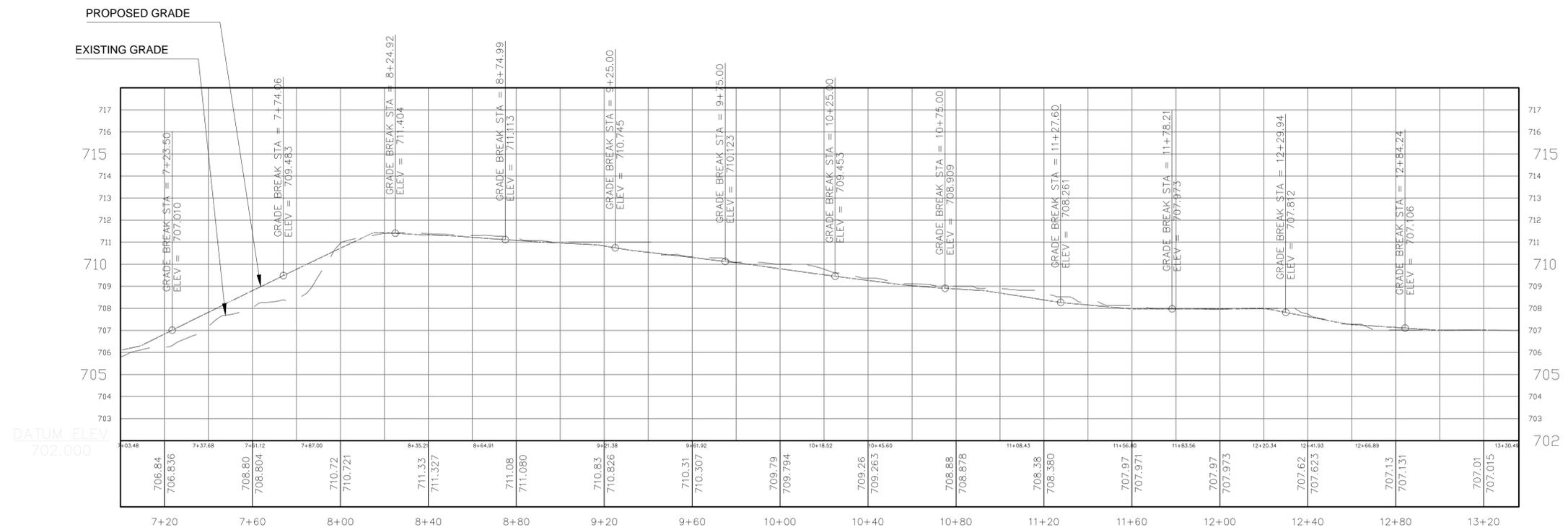
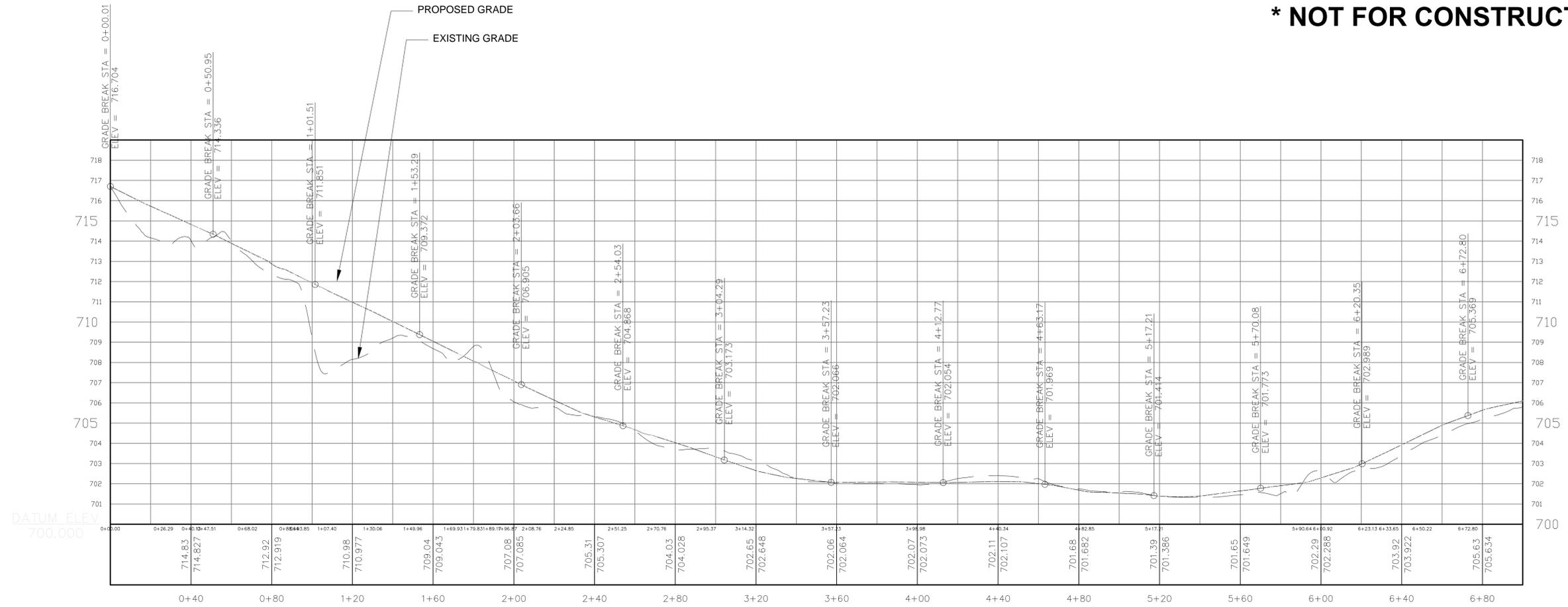
scale:
drawn: MM
checked: ___
date: 11/25/15

IMPROVED TRAIL SEGMENT 1 SECTIONS
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
PROJECT NO.1500058

CONTRACT NO.

SHEET NO.
19
OF : TBD

*** NOT FOR CONSTRUCTION**



REVISIONS

DATE

APPROVED

design:

operations:

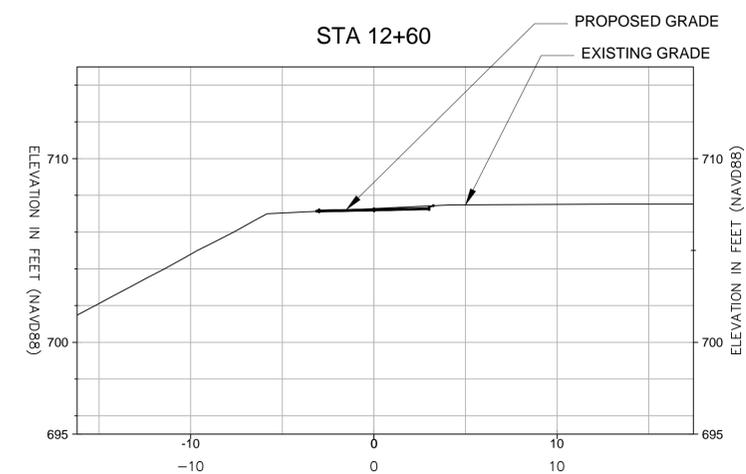
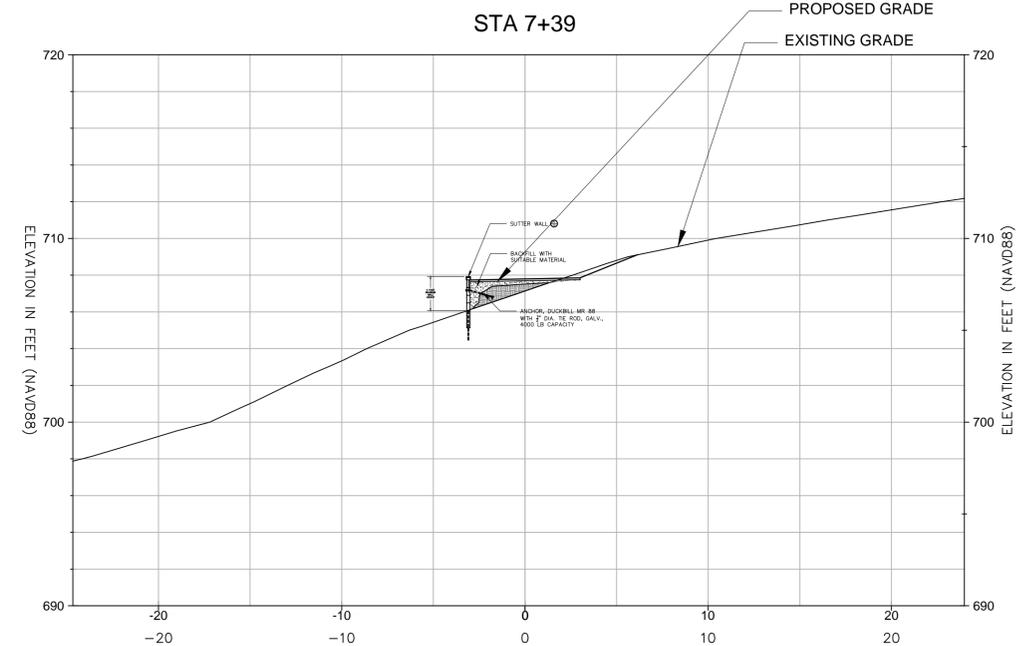
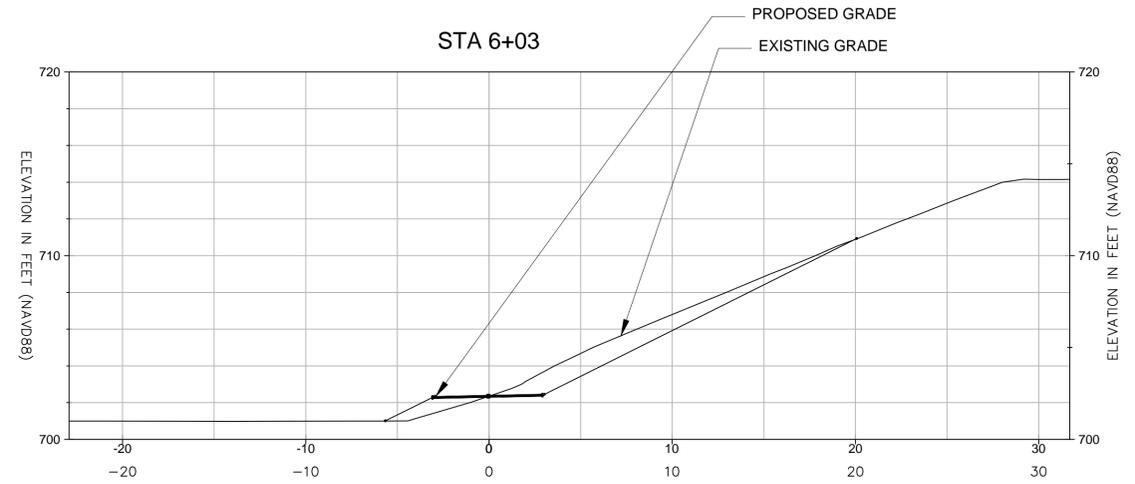
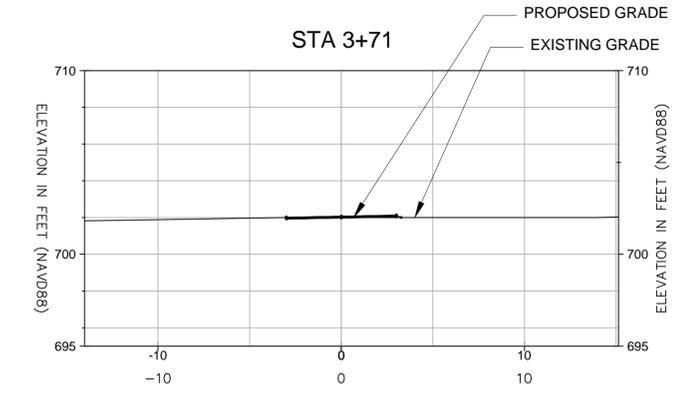
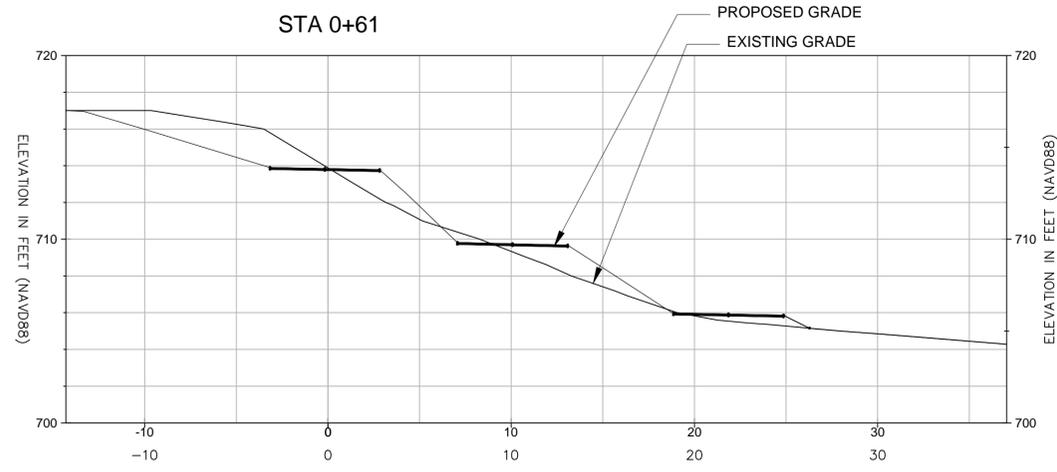
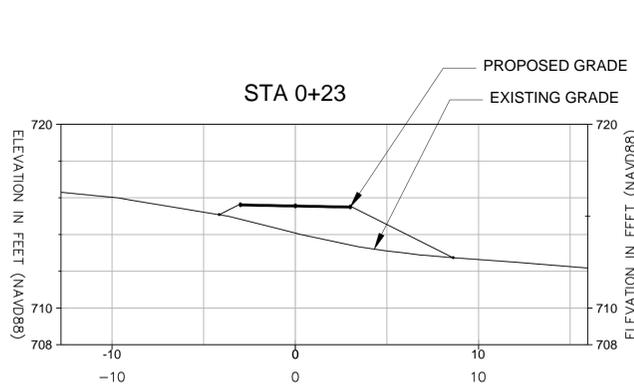


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date: 11/25/15

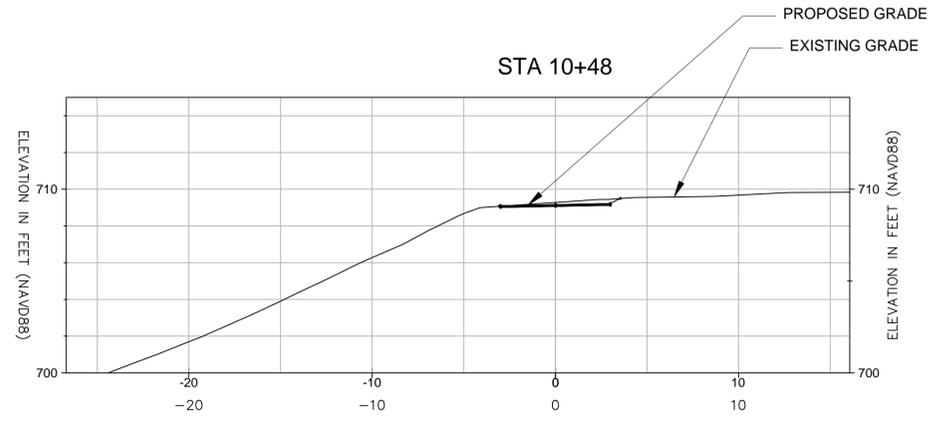
IMPROVED TRAIL SEGEMENT 2 PROFILES
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
PROJECT NO.1500058

CONTRACT NO.

SHEET NO.
20
OF : TBD



*** NOT FOR CONSTRUCTION**



REVISIONS	DATE

APPROVED
 design:
 operations:



scale:
 drawn: MM
 checked: ___
 date: 11/25/15

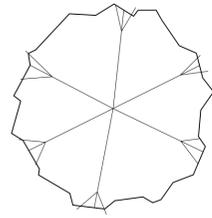
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 LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
 CALABASAS, CA
 PROJECT NO.1500058

CONTRACT NO.

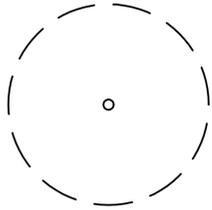
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 21
 OF : TBD



LEGEND

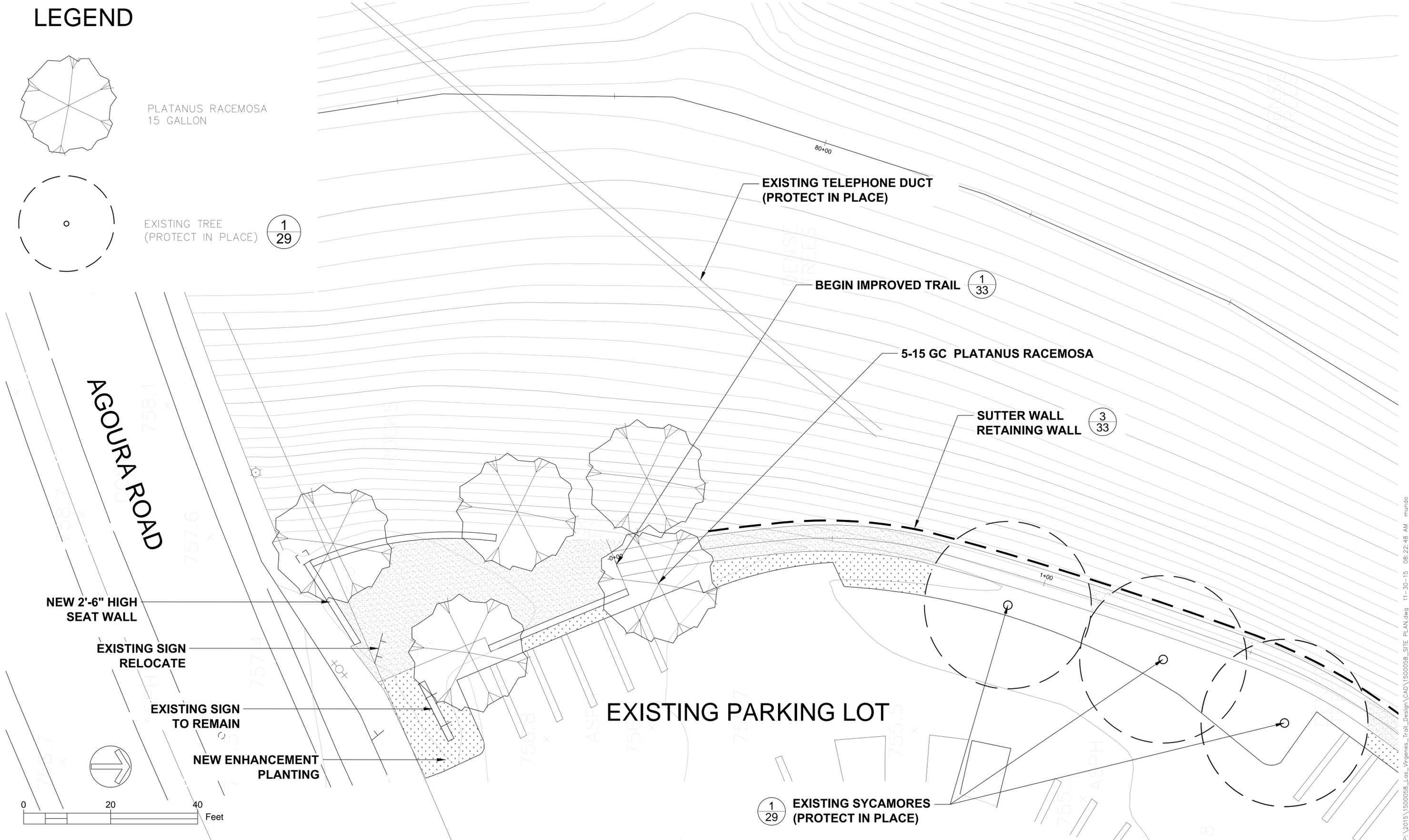


PLATANUS RACEMOSA
15 GALLON



EXISTING TREE
(PROTECT IN PLACE)

1
29



NEW 2'-6" HIGH
SEAT WALL

EXISTING SIGN
RELOCATE

EXISTING SIGN
TO REMAIN

NEW ENHANCEMENT
PLANTING

1
29
EXISTING SYCAMORES
(PROTECT IN PLACE)

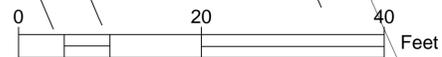
EXISTING TELEPHONE DUCT
(PROTECT IN PLACE)

BEGIN IMPROVED TRAIL 1
33

5-15 GC PLATANUS RACEMOSA

SUTTER WALL
RETAINING WALL 3
33

EXISTING PARKING LOT



REVISIONS

DATE



APPROVED

design:

operations:



scale: 1" = 10'

drawn: MM

checked: ___

date: 11-2542015

AGOURA RD. TRAILHEAD
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

PROJECT NO.1500058

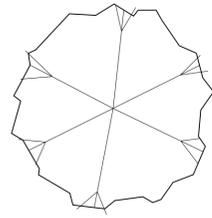
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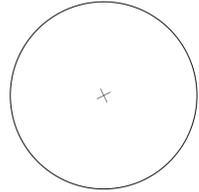
22

OF : TBD

LEGEND



PLATANUS RACEMOSA
15 GALLON



QUERCUS AGRIFOLIA
5 GALLON



ACER NEGUNDO
5 GALLON



2
33 NEW NATURAL TRAIL

1
29 EXISTING OAK TREE
PROTECT IN PLACE

NEW OVERLOOK AREA

NEW IMPROVED TRAIL 1
33

EXISTING OAK TREE
PROTECT IN PLACE 1
29

LOST HILLS ROAD

0 20 40 Feet

REVISIONS

DATE



APPROVED

design:

operations:



scale: 1" = 10'

drawn: MM

checked: —

date: 11-24-2015

INTERPRETIVE AREA/OVERLOOK
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

PROJECT NO.1500058

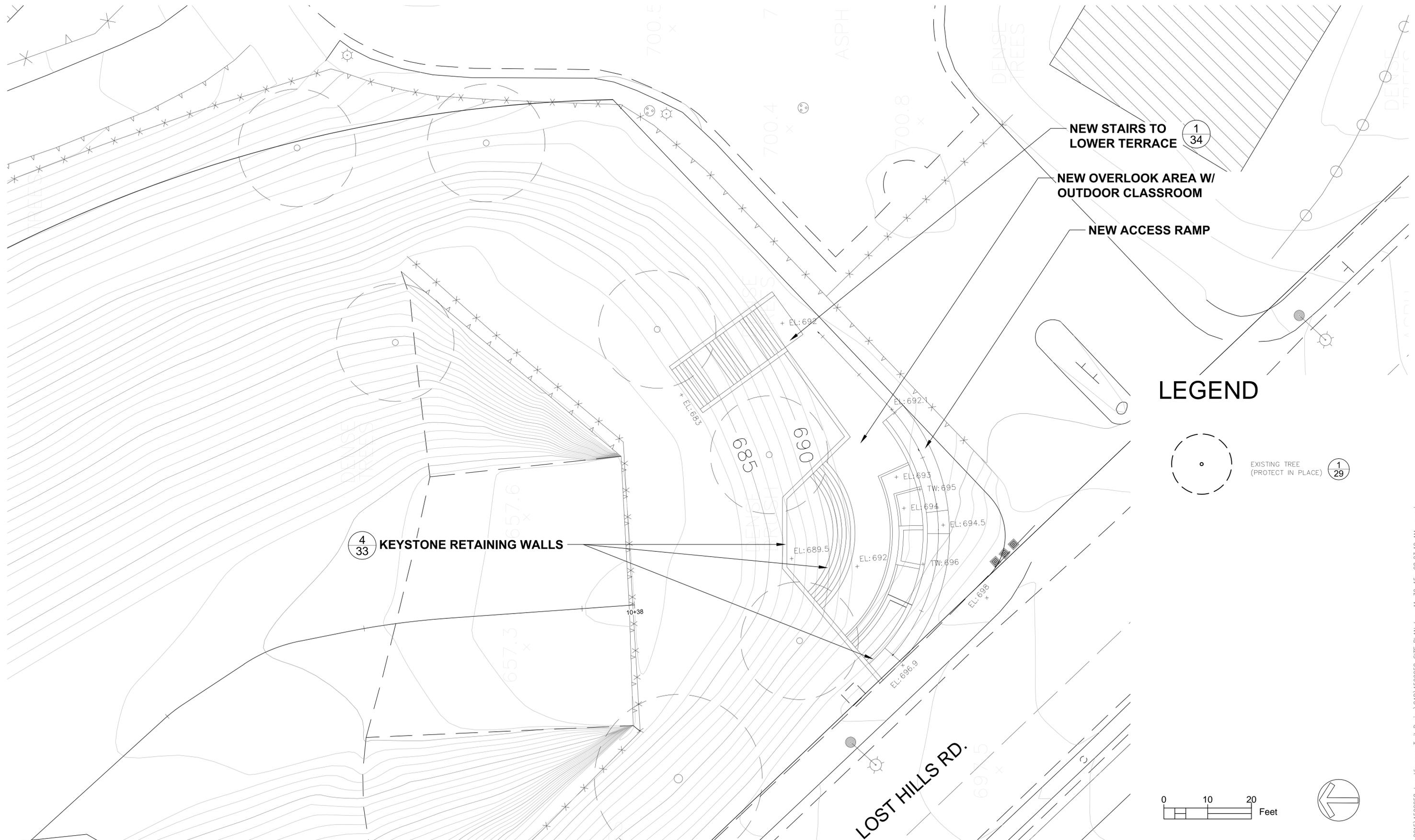
CONTRACT NO.

SHEET NO.

23

OF : TBD

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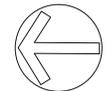
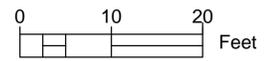
4
33 **KEYSTONE RETAINING WALLS**

NEW STAIRS TO LOWER TERRACE

NEW OVERLOOK AREA W/ OUTDOOR CLASSROOM

NEW ACCESS RAMP

LEGEND



APPROVED

design:

operations:

scale: 1" = 10'

drawn: MM

checked: —

date: 11-24-2015

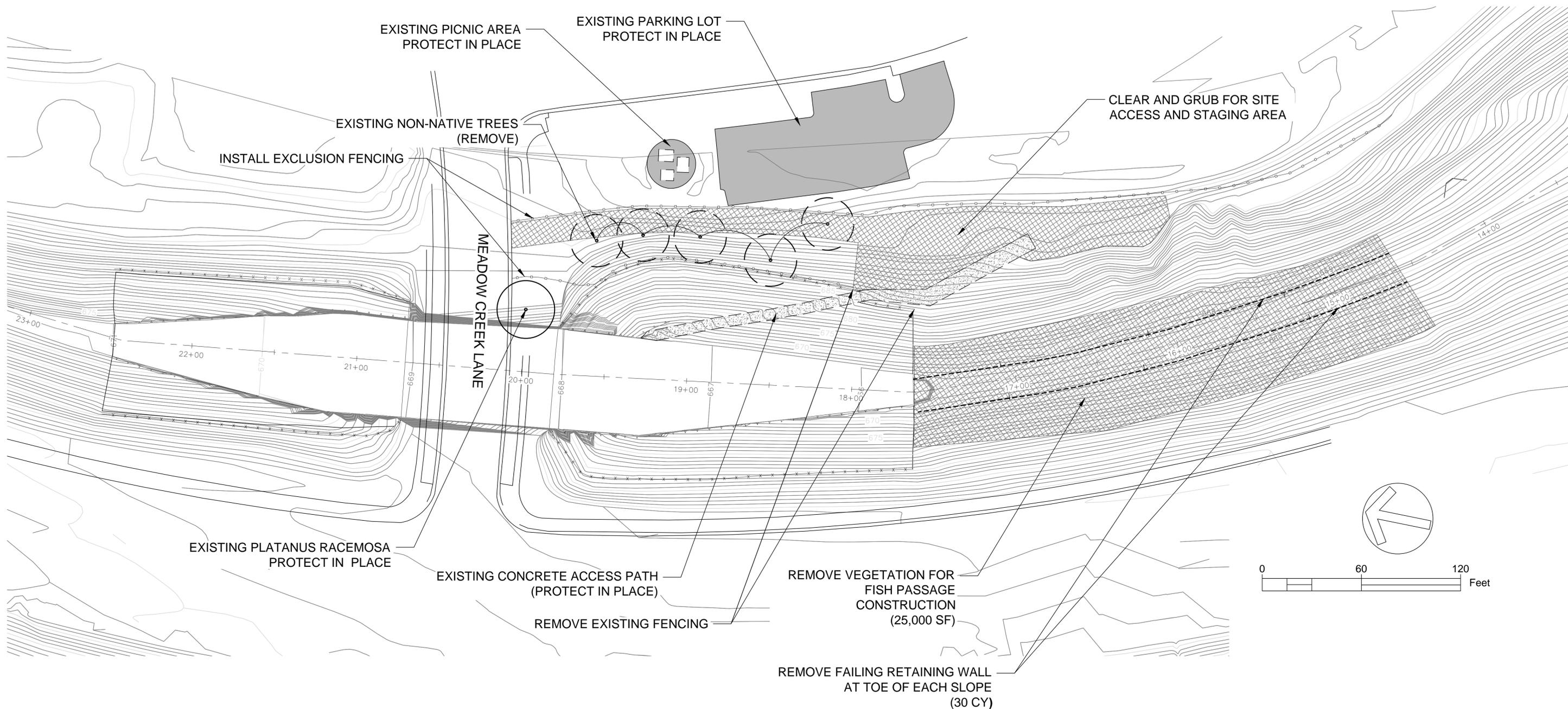
OVERLOOK AREA W/ OUTDOOR CLASSROOM
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
 CALABASAS, CA

PROJECT NO.1500058

CONTRACT NO.

SHEET NO.
24
OF : TBD

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EXISTING PICNIC AREA
PROTECT IN PLACE

EXISTING PARKING LOT
PROTECT IN PLACE

EXISTING NON-NATIVE TREES
(REMOVE)

INSTALL EXCLUSION FENCING

CLEAR AND GRUB FOR SITE
ACCESS AND STAGING AREA

MEADOW CREEK LANE

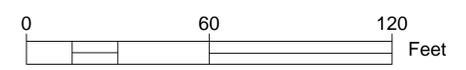
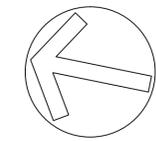
EXISTING PLATANUS RACEMOSA
PROTECT IN PLACE

EXISTING CONCRETE ACCESS PATH
(PROTECT IN PLACE)

REMOVE VEGETATION FOR
FISH PASSAGE
CONSTRUCTION
(25,000 SF)

REMOVE EXISTING FENCING

REMOVE FAILING RETAINING WALL
AT TOE OF EACH SLOPE
(30 CY)



REVISIONS

DATE

APPROVED

design:

operations:



scale: AS NOTED

drawn: MM

checked: __

date: 11-24-2015

FISH PASSAGE DEMOLITION AND CLEARING
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

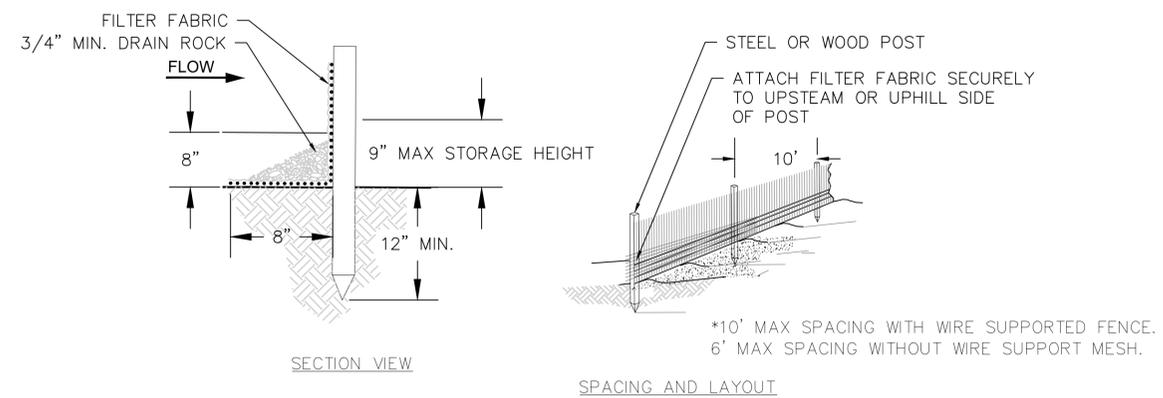
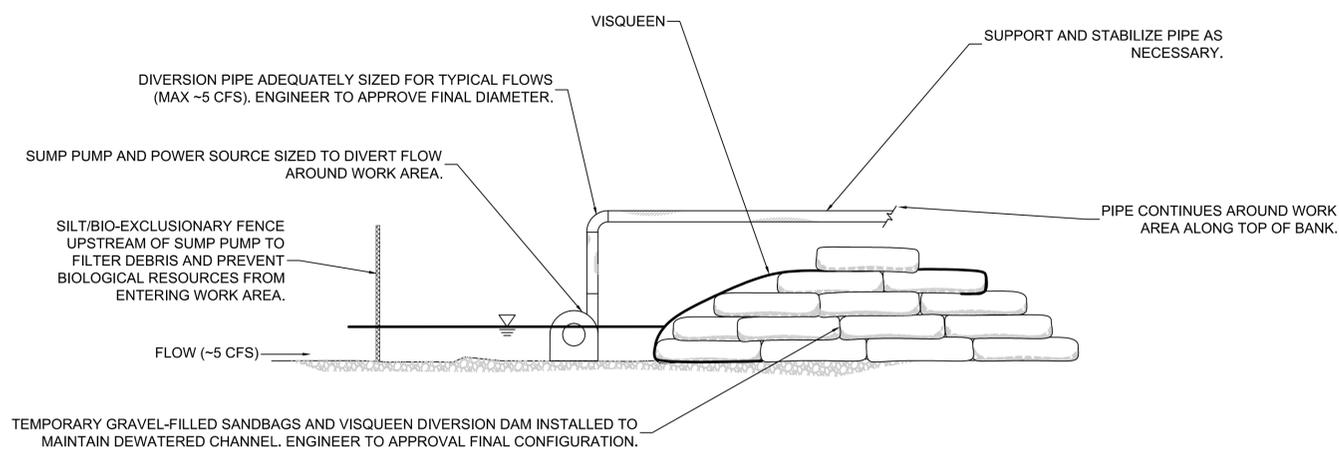
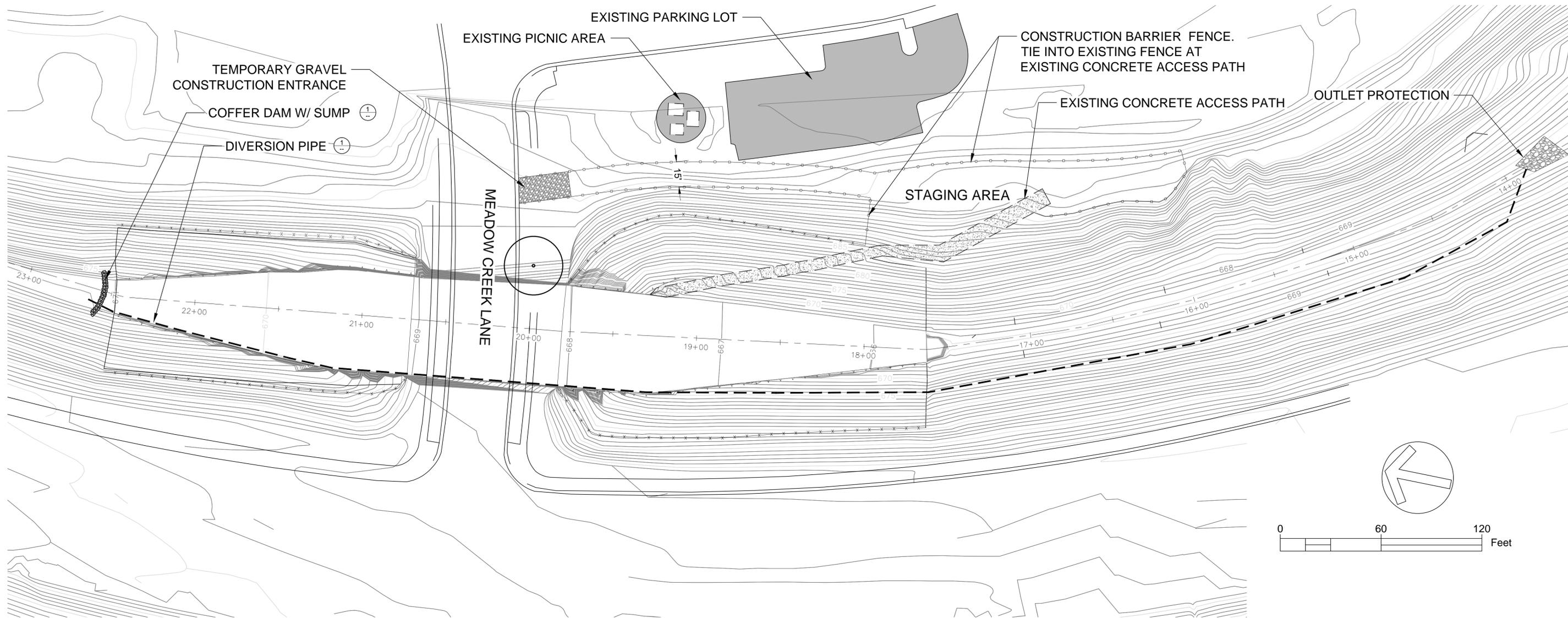
PROJECT NO.1500058

CONTRACT NO.

SHEET NO.
25

OF : TBD

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1 TEMPORARY PLASTIC AND SANDBAG COFFER DAM
NTS

2 SILT/BIO-EXCLUSION FENCE
NTS



REVISIONS

DATE

APPROVED

design:

operations:



scale: AS NOTED

drawn: MM

checked: __

date: 11-24-2015

FISH PASSAGE SITE PROTECTION AND DEWATERING
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

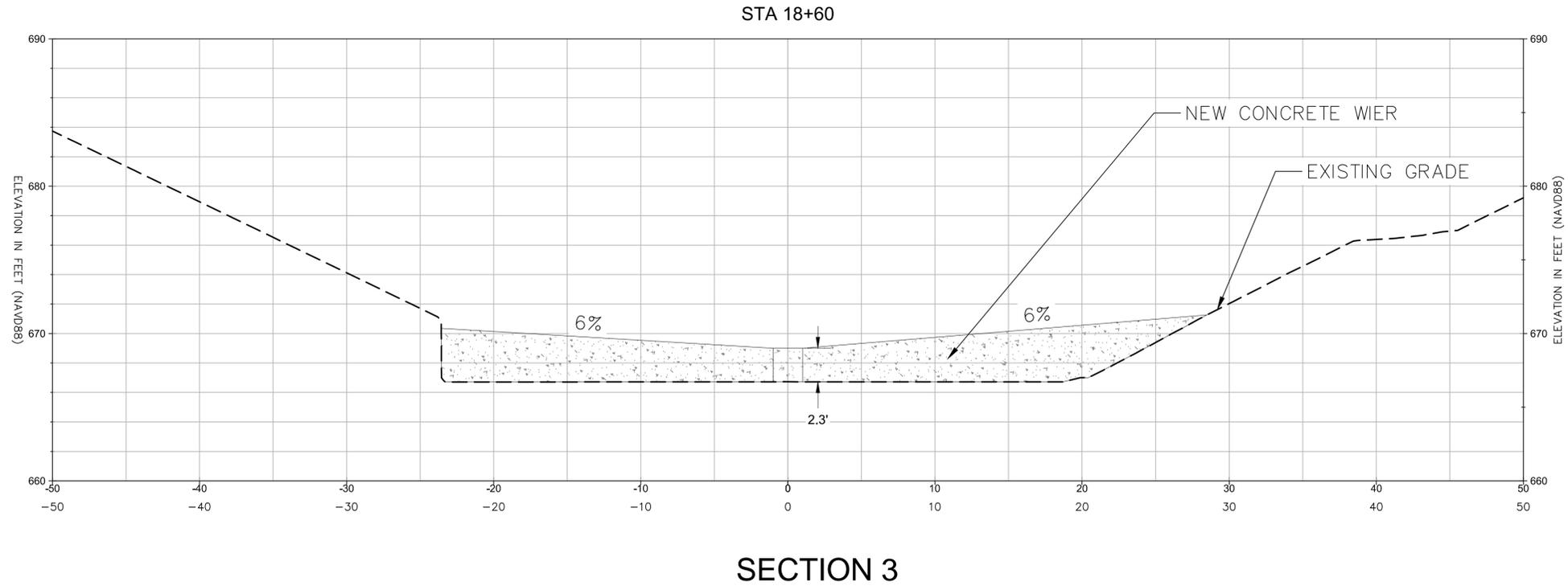
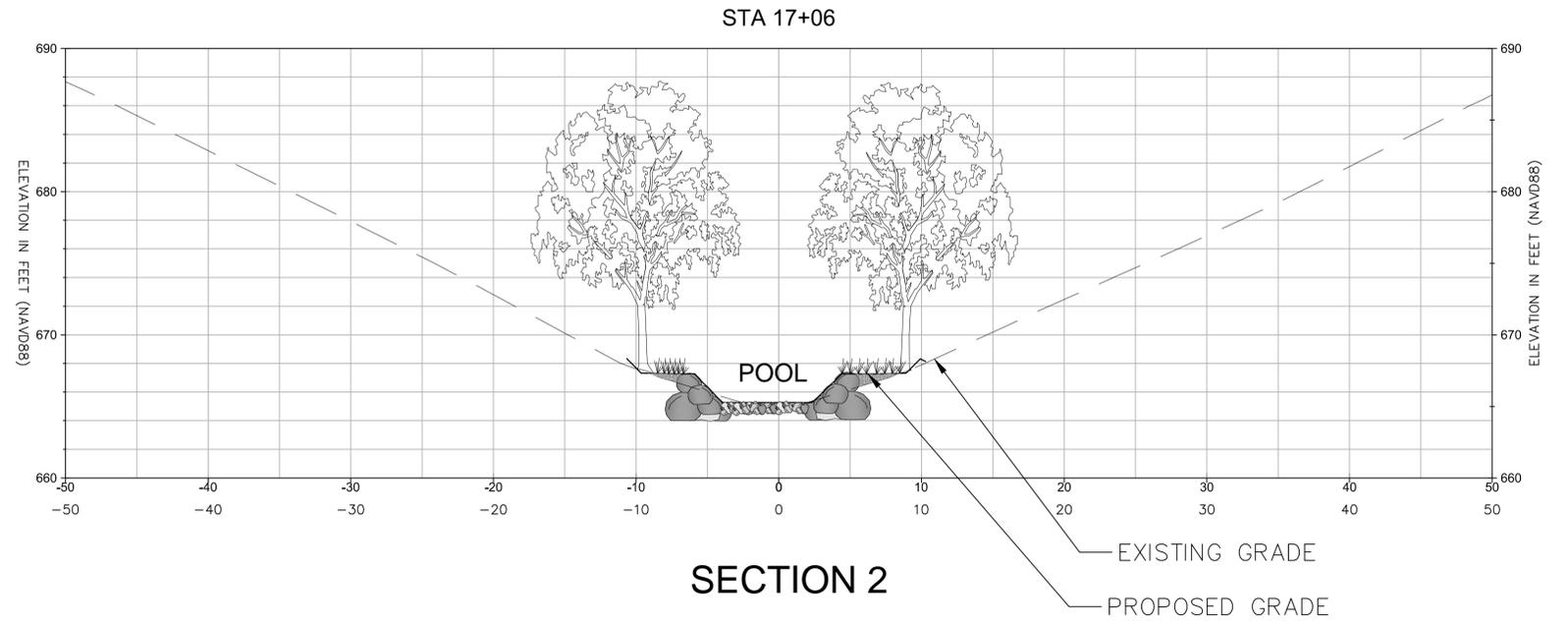
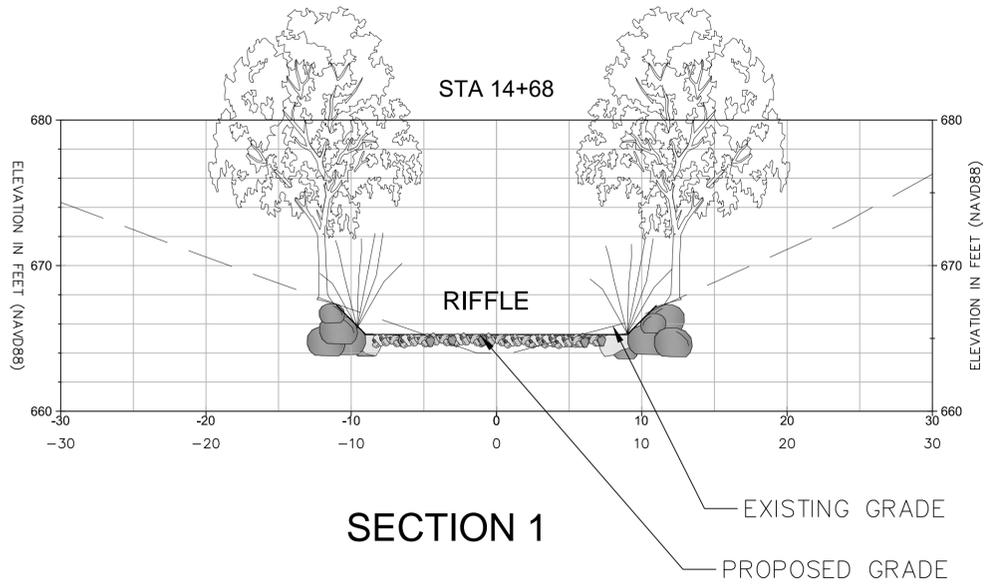
PROJECT NO.1500058

SHEET NO.

26

OF : TBD

CONTRACT NO.



REVISIONS

DATE

APPROVED

design:

operations:



scale: AS NOTED

drawn: MM

checked: --

date: 11-24-2015

FISH PASSAGE SECTIONS
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

PROJECT NO.1500058

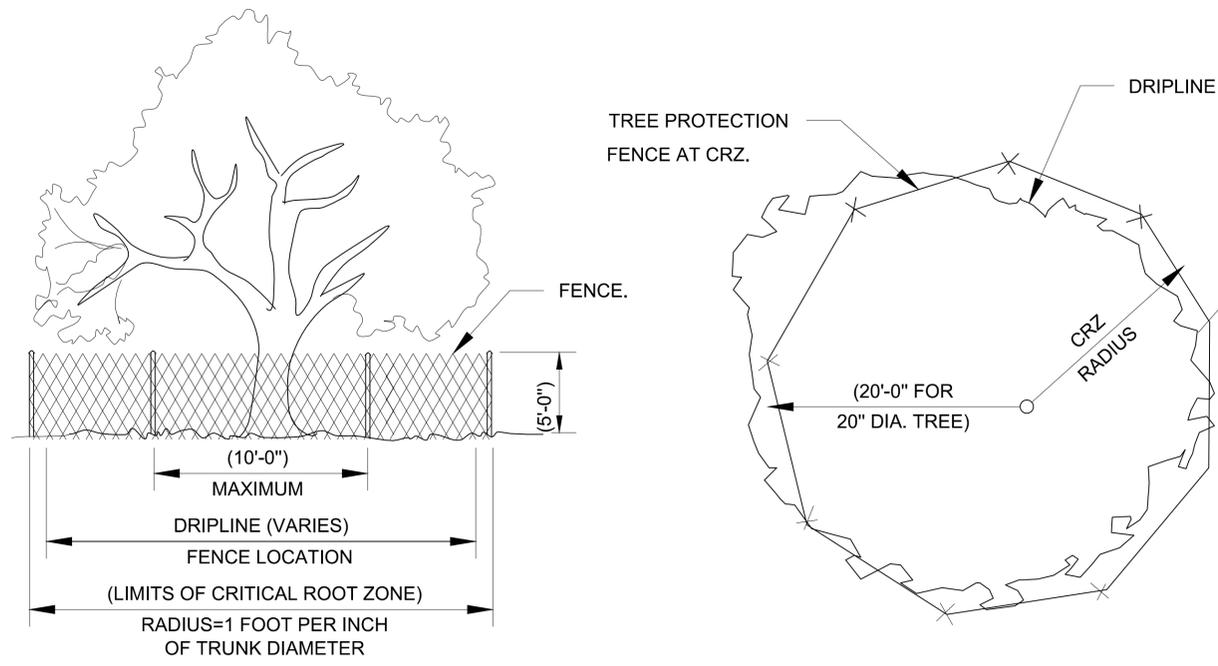
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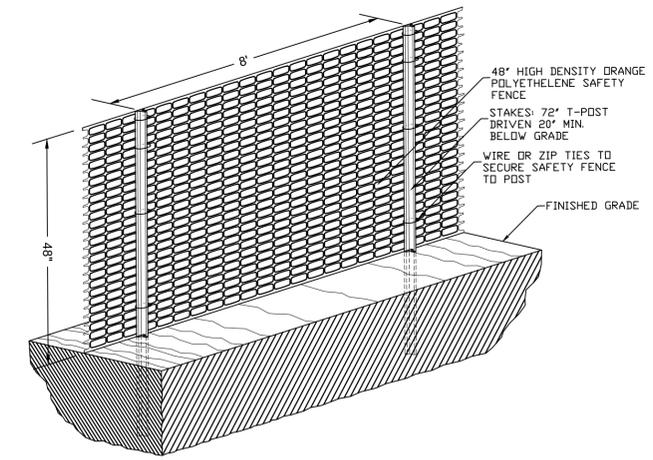
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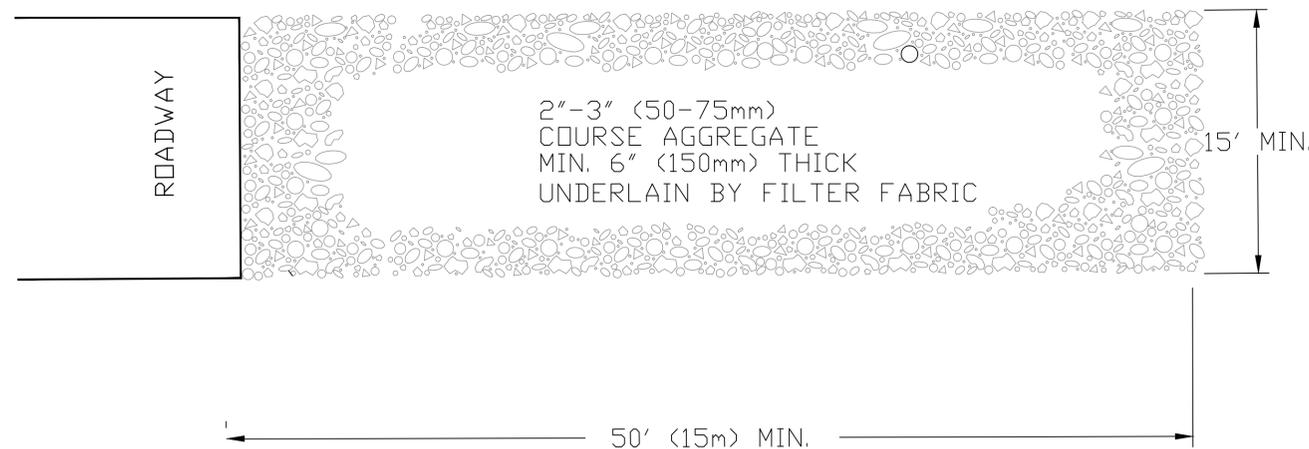
1 TREE PROTECTION
NTS



- NOTES:**
1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
 2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
 3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
 4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
 5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

2 CONSTRUCTION BARRIER FENCH
NTS

SUPPLY WATER TO WASH WHEELS IF NECESSARY



PLAN

3 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
NTS

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



REVISIONS

DATE

APPROVED

design:

operations:



scale: 1" = 40'

drawn: MM

checked: --

date: 11-24-15

SITE PROTECTION DETAILS
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

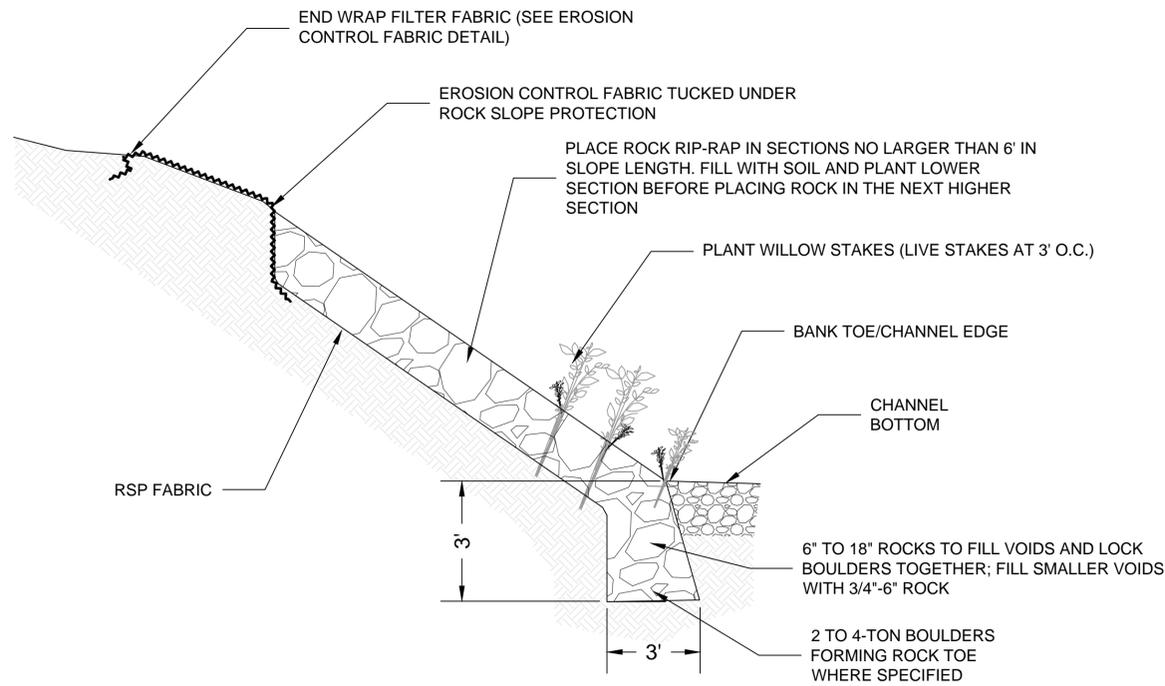
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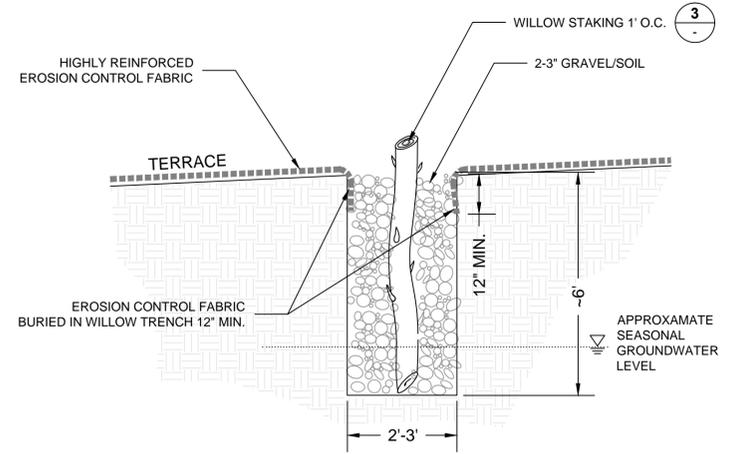
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29

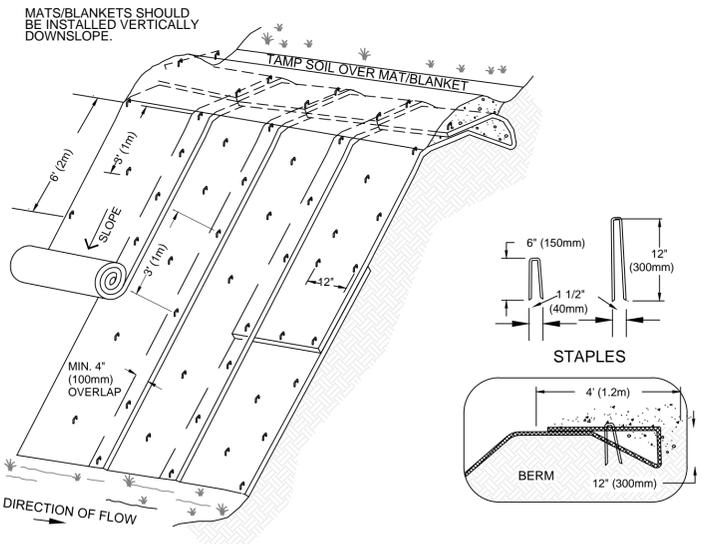
OF : TBD



1 PLANTED ROCK REVETMENT
NTS

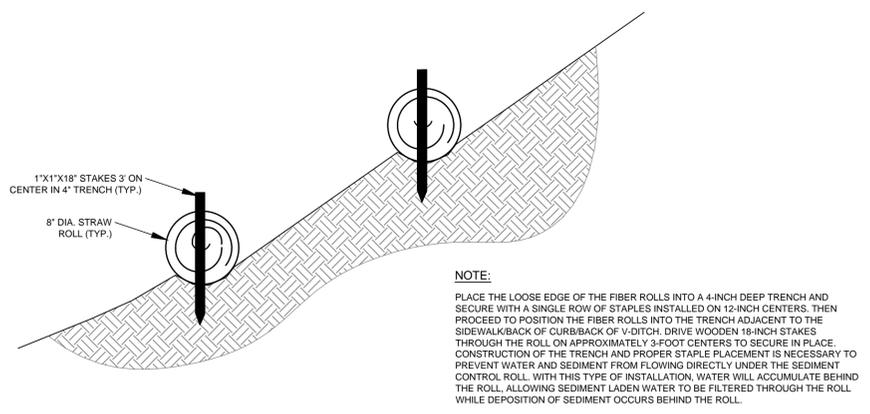


2 WILLOW TRENCH AND EROSION CONTROL FABRIC
NTS

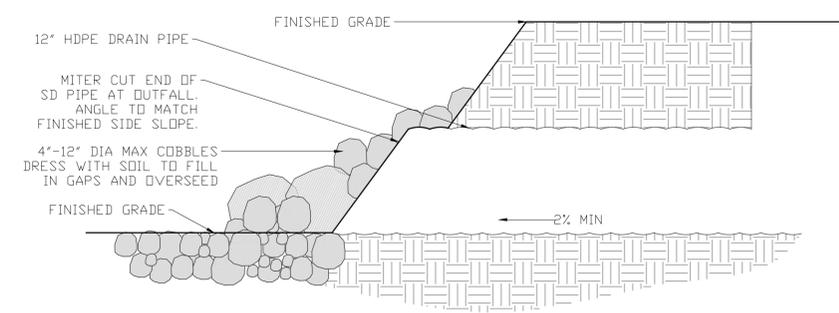


- NOTES:
1. EROSION CONTROL BLANKETS/MATS SHALL BE BIODEGRADABLE (SEE SPECS)
 2. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLOUDS, STICKS AND GRASS.
 3. MATS/ BLANKETS SHALL HAVE GOOD SOIL CONTACT.
 4. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
 5. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

3 EROSION CONTROL FABRIC
NTS



4 FIBER ROLLS
NTS



5 OUTFALL PROTECTION
NTS



REVISIONS	DATE

APPROVED
design:
operations:

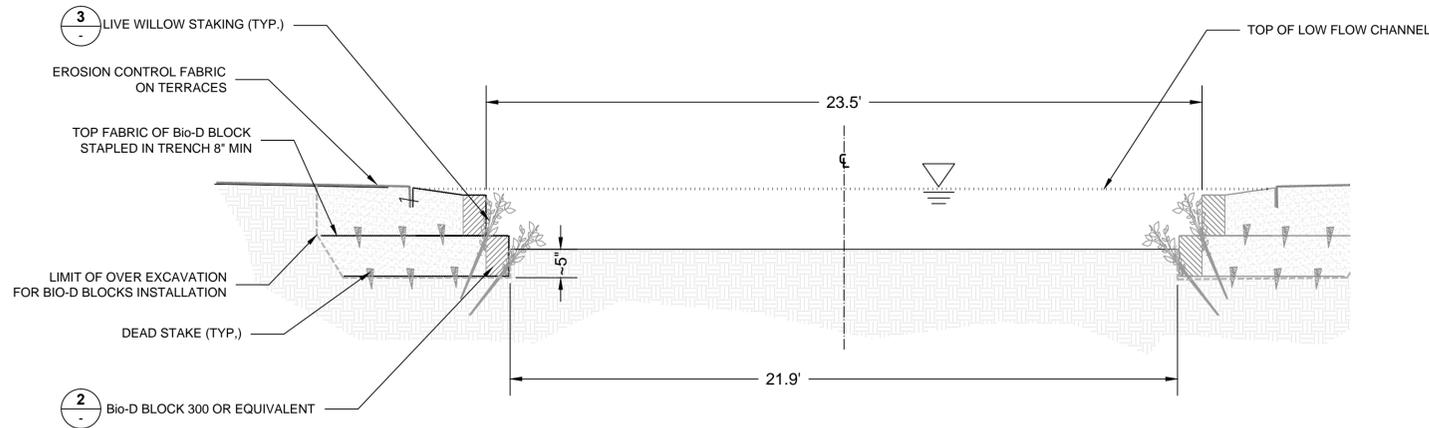


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checked: __
date: 11-24-15

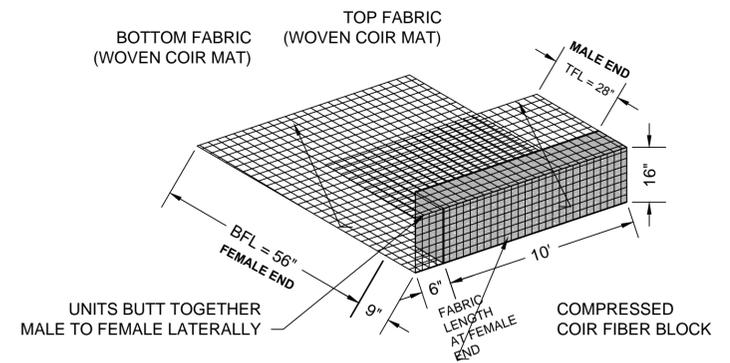
EROSION CONTROL DETAILS
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
PROJECT NO.1500058

CONTRACT NO.

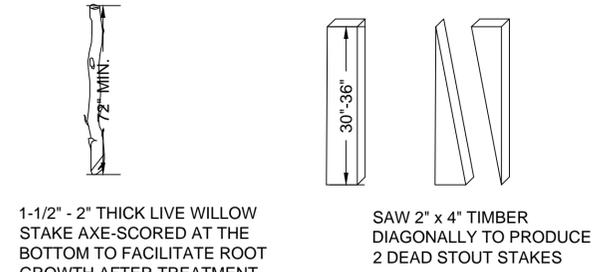
SHEET NO.
30
OF : TBD



1 TYPICAL LOWFLOW CHANNEL CONSTRUCTION
NTS



2 Bio-D BLOCK 300
NOT TO SCALE

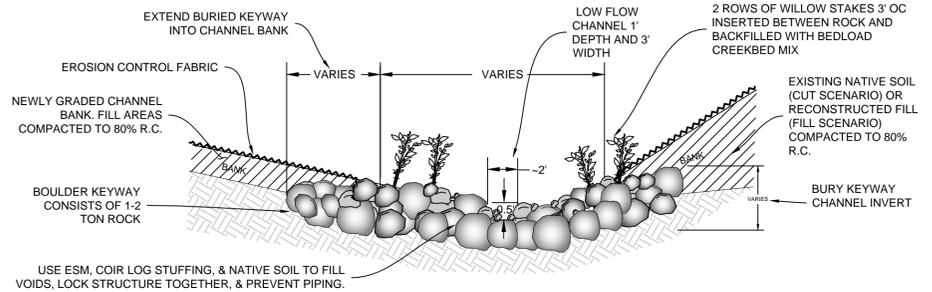
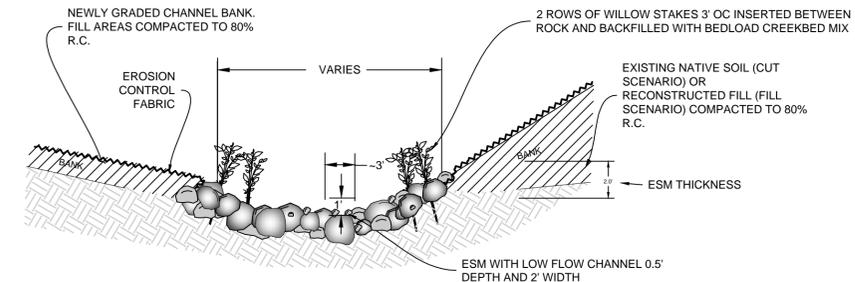
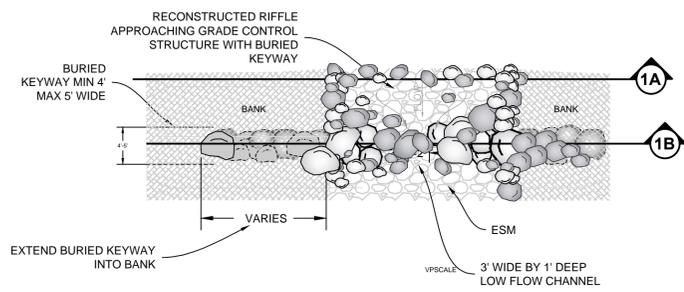


1-1/2" - 2" THICK LIVE WILLOW STAKE AXE-SCORED AT THE BOTTOM TO FACILITATE ROOT GROWTH AFTER TREATMENT WITH ROOTING HORMONE; WILLOW STAKES SHALL BE SOAKED IN WATER FOR MIN. OF 24 HOURS PRIOR TO INSTALLATION.

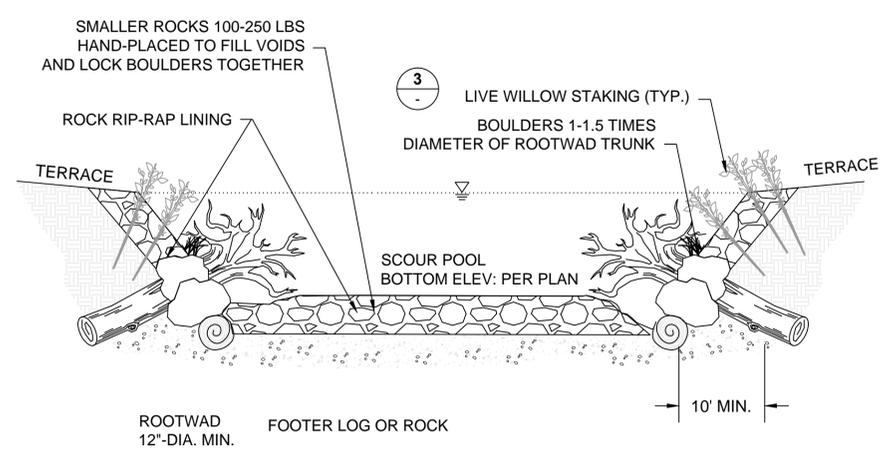
DEAD STAKE

LIVE STAKE

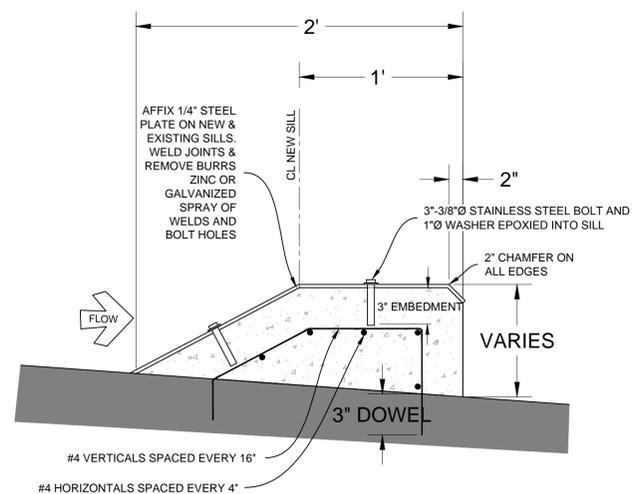
3 STAKING
NOT TO SCALE



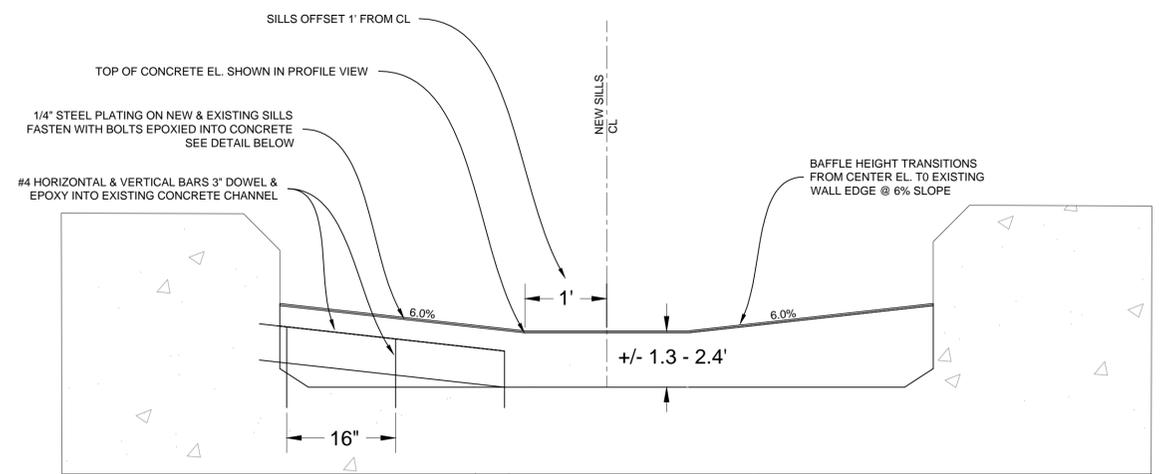
4 CONSTRUCTED RIFFLE AND GRADE CONTROL BAFFLE PLAN AND SECTIONS
NTS



5 ROOTWAD INSTALLATION AND SCOUR POOL (TYP.)
NOT TO SCALE



6 CONCRETE FISH PASSAGE WEIR
NTS



REVISIONS | DATE

APPROVED
design:
operations:

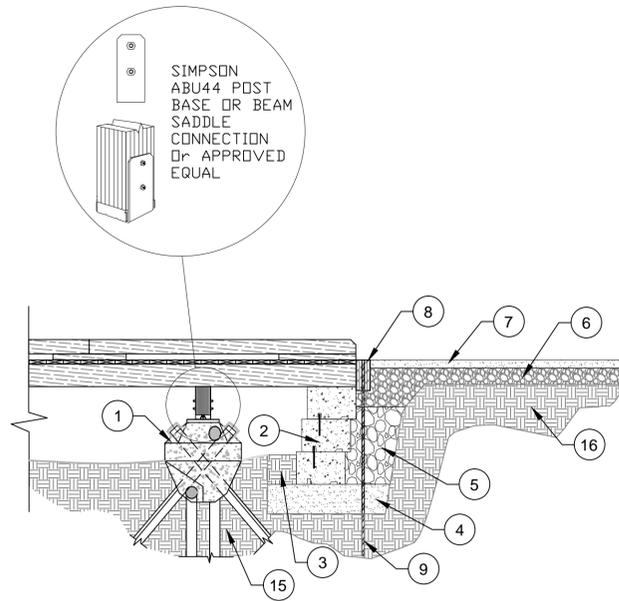


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checked: --
date: 11-24-15

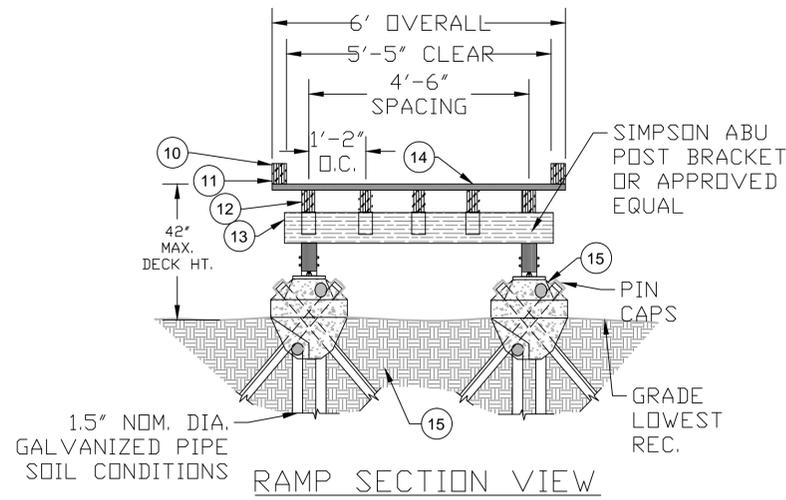
FISH PASSAGE DETAILS
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
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PROJECT NO.1500058

CONTRACT NO.

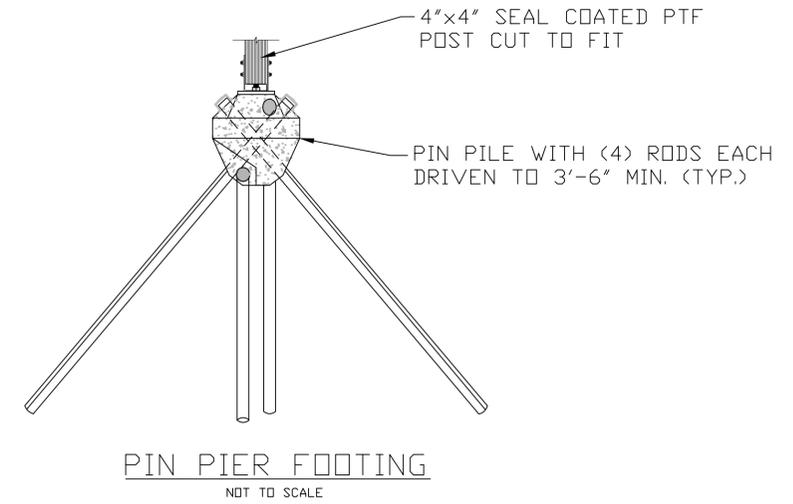
SHEET NO. 31
OF : TBD



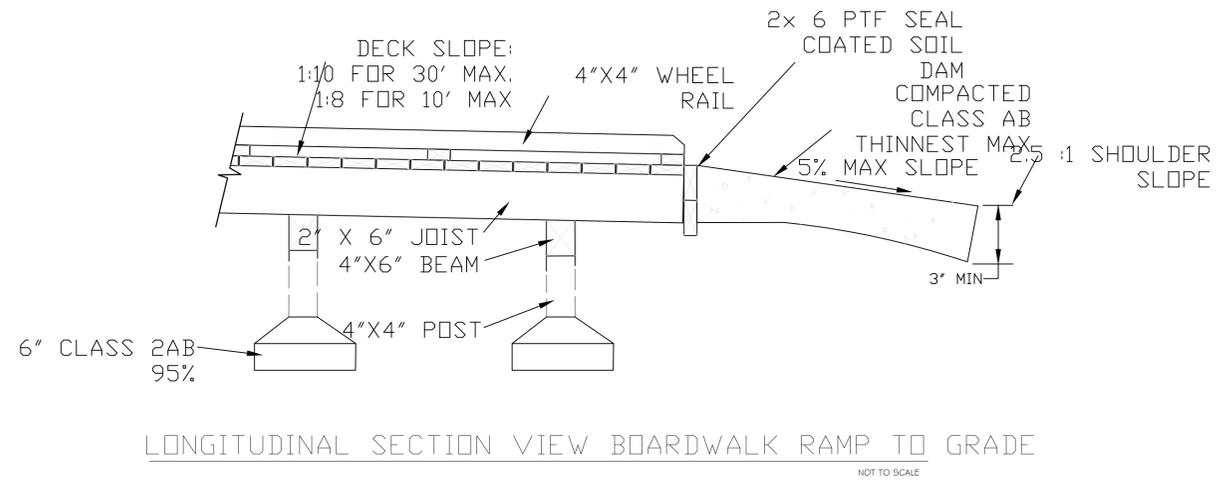
LONGITUDINAL SECTION VIEW



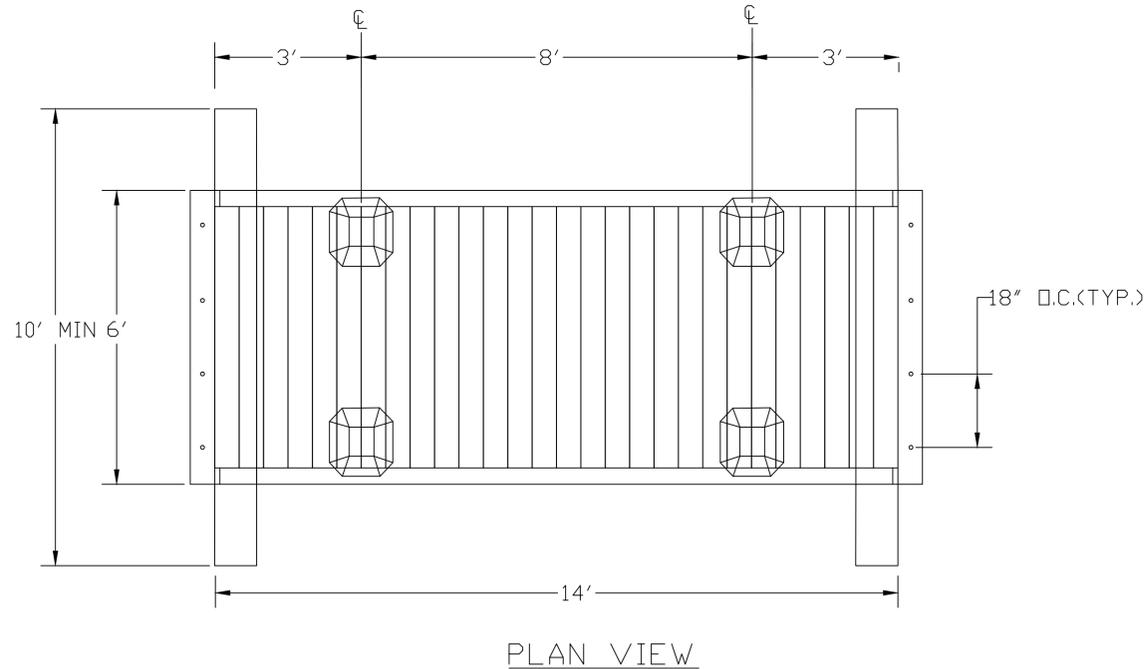
RAMP SECTION VIEW



PIN PIER FOOTING



LONGITUDINAL SECTION VIEW BOARDWALK RAMP TO GRADE



PLAN VIEW

- | | |
|--|---|
| 1. PIN PIER FOOTING WITH POST BRACKET (TYP.) | 7. 2" DEEP 1/4" MINUS CRUSHED ROCK PATHWAY |
| 2. CONCRETE MASONRY UNIT WALL ABUTMENT WALLS (3 ft HIGH) | 8. PAVING |
| 3. COMPACTED EXISTING SUBGRADE TO 95% | 9. 6X8 PRESSURE TREATED TIMBER END BOARDS |
| 4. 6" DEEP X 18" WIDE 3/8" MINUS CRUSHED ROCK BASE | 10. 3' LONG #5 RE-BAR DRIVEN @ 18" O.C. (TYP.) |
| 5. 5/8" DRAIN ROCK BEHIND WALL/BERM | 11. 2X4 KICK RAIL (BOTH SIDE TYP.) |
| 6. 4" DEEP 5/8" MINUS CRUSHED ROCK PATHWAY BASE | 12. 2X4 LIFT SPACERS @ 6' O.C. MAX. (TYP.) |
| | 13. 4X6 P.T. JOISTS @ 16" O.C. (TYP.) |
| | 14. 4X6 P.T. BEAMS (TYP.) |
| | 15. RANDOM PLACEMENT 2X6,2X8,2X10,2X12 ROUGH SAWN REDWOOD |
| | 16. UNDISTURBED NATIVE SOILS |
| | EXISTING SOIL BERM |

1 ELEVATED BOARDWALK DETAILS
NTS

REVISIONS

DATE

APPROVED

design:

operations:



scale: 1" = 40'

drawn: MM

checked: --

date: 11-24-15

BOARDWALK DETAILS
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA

PROJECT NO.1500058

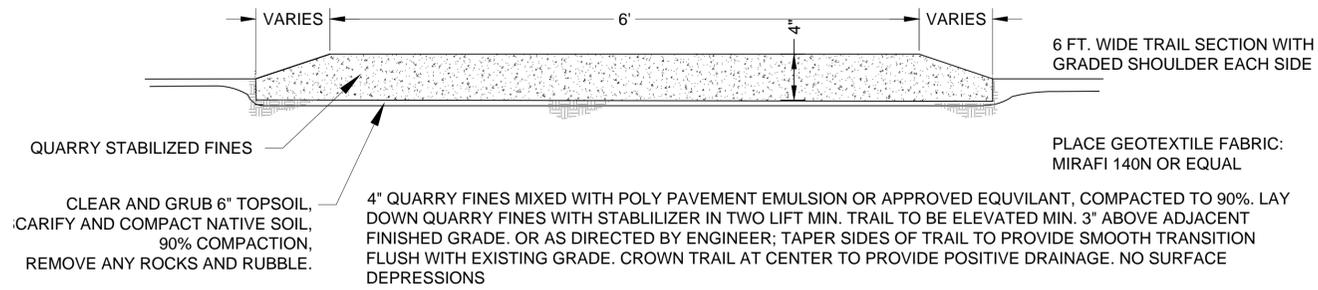
SHEET NO.

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OF : TBD

CONTRACT NO.





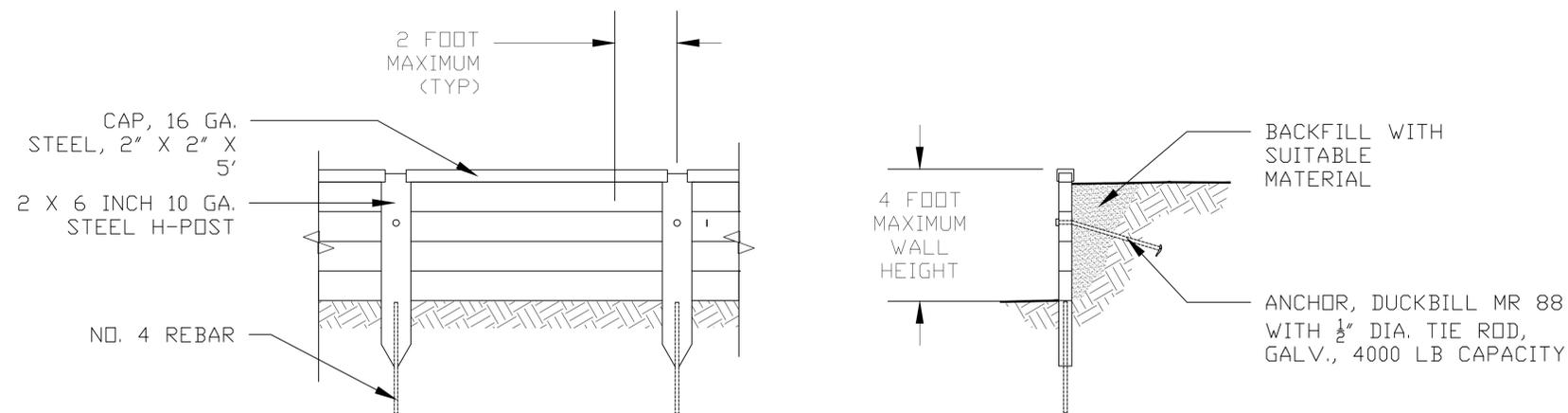
Tread Width	6 -10 feet
Clearing Width	10 -12 feet
Tread Surface	Crushed rock, decomposed granite or asphalt
Percent Grade	Grades should not exceed 10 percent <u>Desired Grade:</u> 0 to 5 percent <u>Maximum Grade:</u> 0 to 10 percent (sustained, 15 percent (shorter than 50 yards) <u>Cross Slope Grade:</u> 2 percent (maximum)
Clearing Height	10 – 14 feet to allow for equestrian use

1 IMPROVED TRAIL
NTS

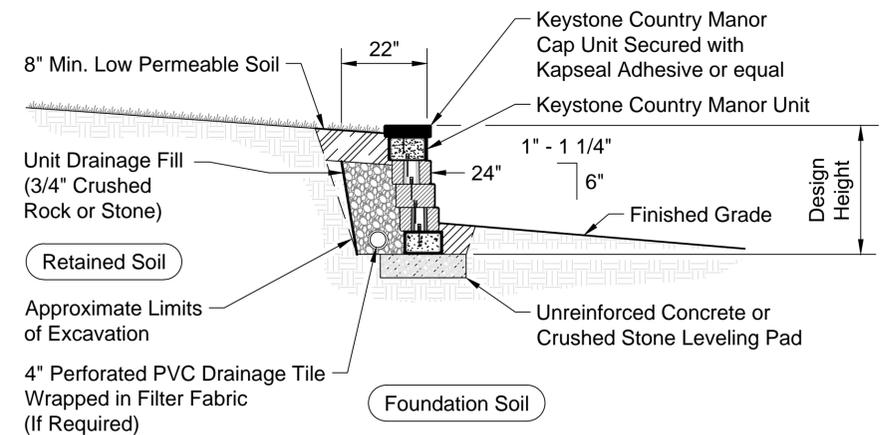
Preferred Standards:

Tread Width	3 – 5 feet
Clearing Width	7 – 9 feet
Tread Surface	Natural/native soil
Percent Grade	Grades should not exceed 10 percent <u>Desired Grade:</u> 0 to 5 percent <u>Maximum Grade:</u> 5 to 10 percent (sustained, 15 percent (shorter than 50 yards) <u>Cross Slope Grade:</u> 3 percent (maximum)
Clearing Height	10 – 14 feet to allow for equestrian use

2 NATURAL TRAIL
NTS



3 SUTTER RETAINING WALL
NTS



4 KEYSTONE RETAINING WALL
NTS

REVISIONS | DATE

APPROVED
design:
checked: --
operations:



scale: 1" = 40'
drawn: MM
checked: --
date: 11-24-15

TRAIL DETAILS
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
PROJECT NO.1500058

CONTRACT NO.

SHEET NO. 33
OF : TBD



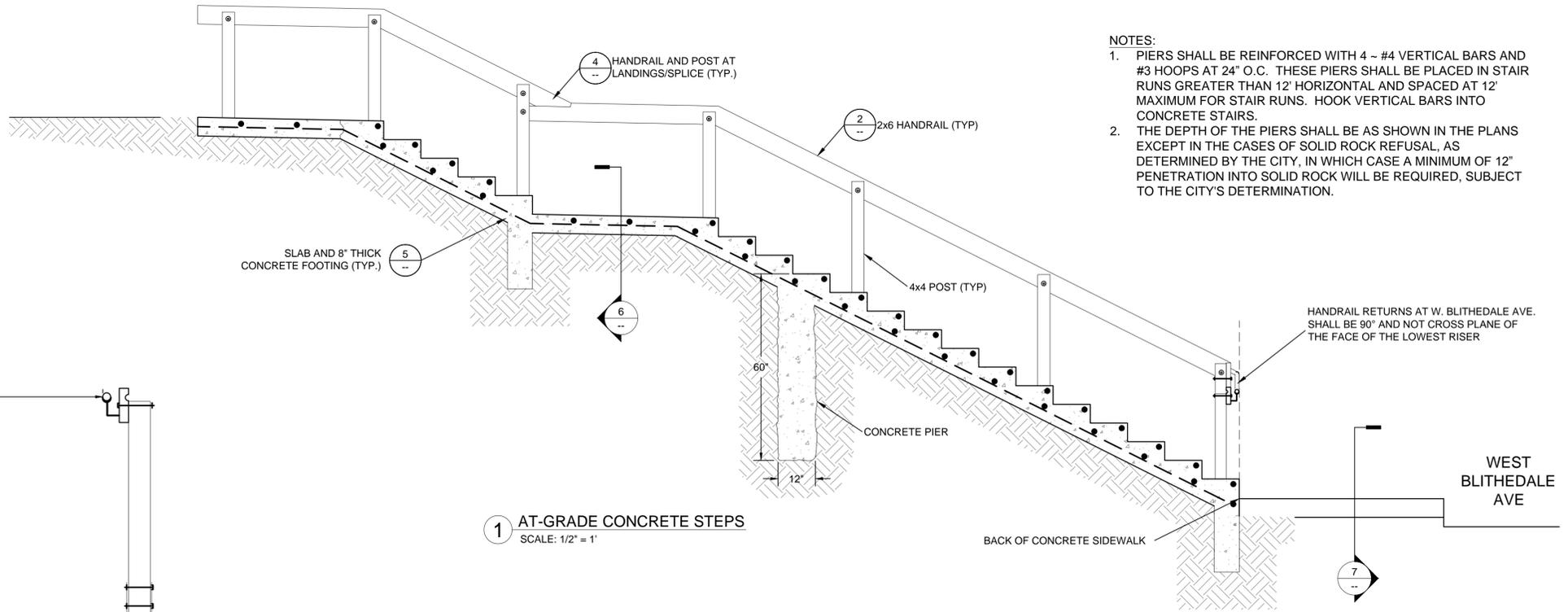
MATERIALS

CONCRETE:

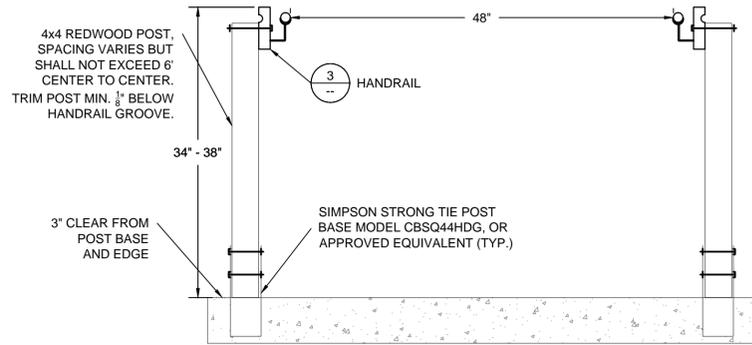
1. CONCRETE FOR POST PIERS SHALL BE CLASS C (4 SACK MIX) . NO COLORING IS TO BE ADDED TO PIER CONCRETE.
2. CONCRETE FOR STAIRWAYS AND LANDINGS SHALL BE CLASS B (5 SACK MIX) WITH 1" MAX. AGGREGATE. ADD "DAVIS #5084" COLOR OR EQUIVALENT 0.5 LBS./C.Y., TO ALL STAIR CONCRETE. CONCRETE SHALL HAVE A SLUMP OF NOT MORE THAN 4". NO ADMIXTURES SHALL BE USED. IF PUMPED CONCRETE IS USED, STANDARD SPECIFICATION SECTION 45.02 SHALL APPLY.
3. NO CONCRETE SHALL BE POURED PRIOR TO FORMWORK AND STEEL PLACEMENT APPROVAL BY CITY ENGINEER.

WOOD:

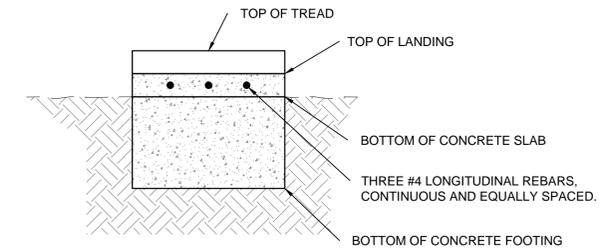
ALL WOODEN POSTS AND HANDRAILS (EXCEPT SIDE STRINGERS FOR CONCRETE STEPS) SHALL BE CLEAR GREEN REDWOOD.



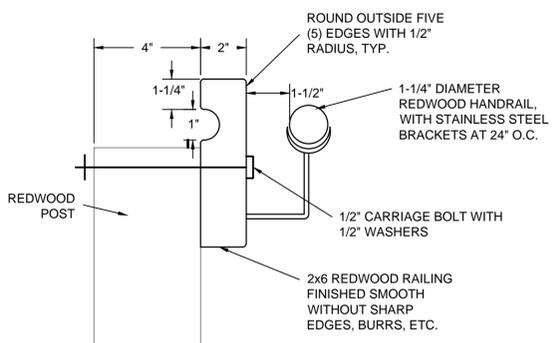
- NOTES:**
1. PIERS SHALL BE REINFORCED WITH 4 - #4 VERTICAL BARS AND #3 HOOPS AT 24" O.C. THESE PIERS SHALL BE PLACED IN STAIR RUNS GREATER THAN 12' HORIZONTAL AND SPACED AT 12' MAXIMUM FOR STAIR RUNS. HOOK VERTICAL BARS INTO CONCRETE STAIRS.
 2. THE DEPTH OF THE PIERS SHALL BE AS SHOWN IN THE PLANS EXCEPT IN THE CASES OF SOLID ROCK REFUSAL, AS DETERMINED BY THE CITY, IN WHICH CASE A MINIMUM OF 12" PENETRATION INTO SOLID ROCK WILL BE REQUIRED, SUBJECT TO THE CITY'S DETERMINATION.



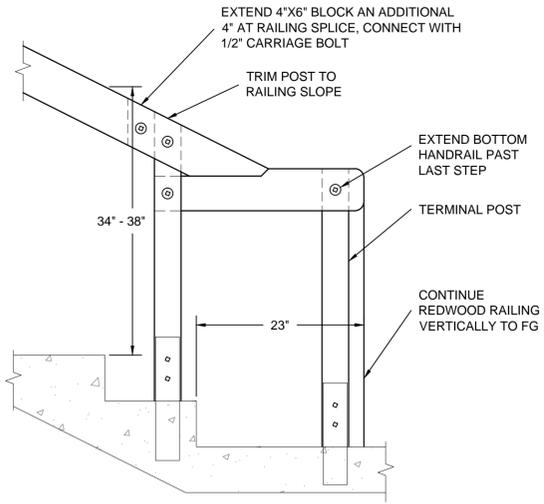
2 HANDRAIL AND POST DETAIL
SCALE: 1" = 1"



6 LANDING SECTION
SCALE: 1/2" = 1"

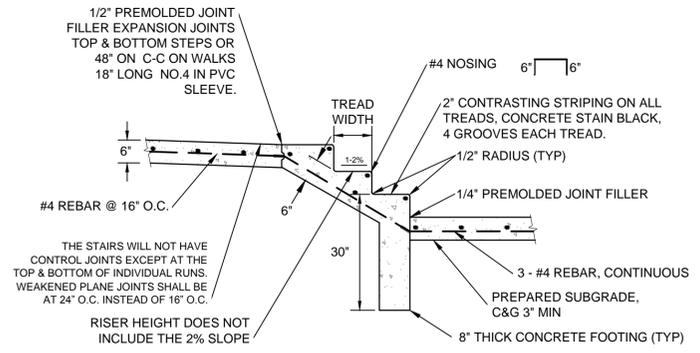


3 HANDRAIL DETAIL
NTS

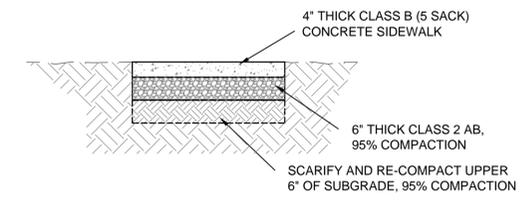


NOTE: HANDBAIL SHALL TERMINATE ONLY WHERE INTERMEDIATE LANDINGS ARE ACCESSED FROM ADJACENT RESIDENCES. HANDBAIL SHALL BE CONTINUOUS ALONG LENGTH OF LANDING WHERE ADJACENT RESIDENCE IS NOT PRESENT.

4 HANDRAIL AND POST AT LANDINGS AND SPLICE
SCALE: 1" = 1"



5 SLAB AND FOOTING DETAIL
SCALE: 1/2" = 1"



7 SIDEWALK SECTION
SCALE: 1/2" = 1"

REVISIONS	DATE



APPROVED
design:
operations:



scale: AS NOTED
drawn: MM
checked: --
date: 11-24-2015

TITLE SHEET AND SHEET INDEX
LAS VIRGENES CREEK RESTORATION PROJECT PHASE 2
CALABASAS, CA
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SHEET NO.
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OF : TBD