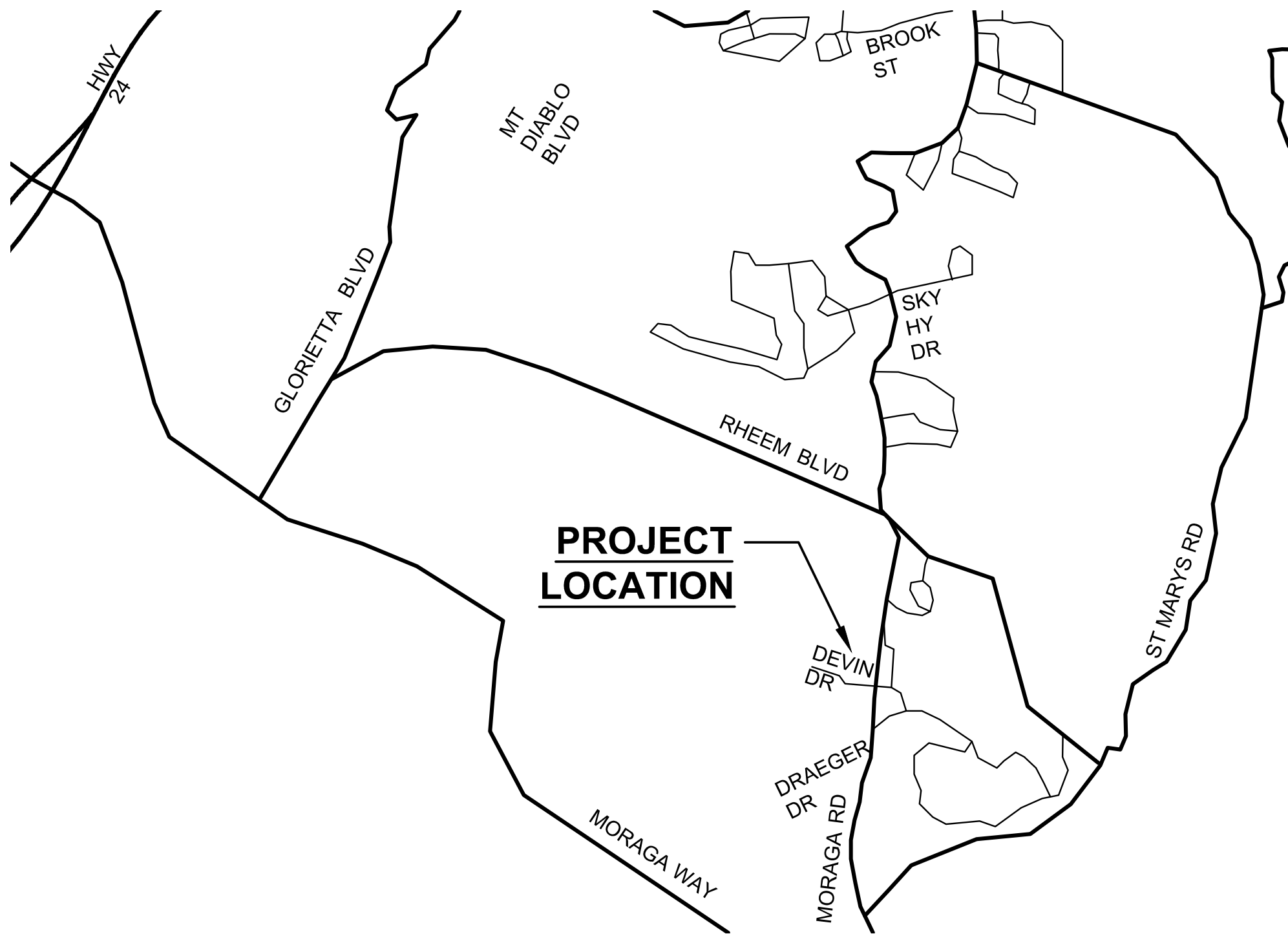




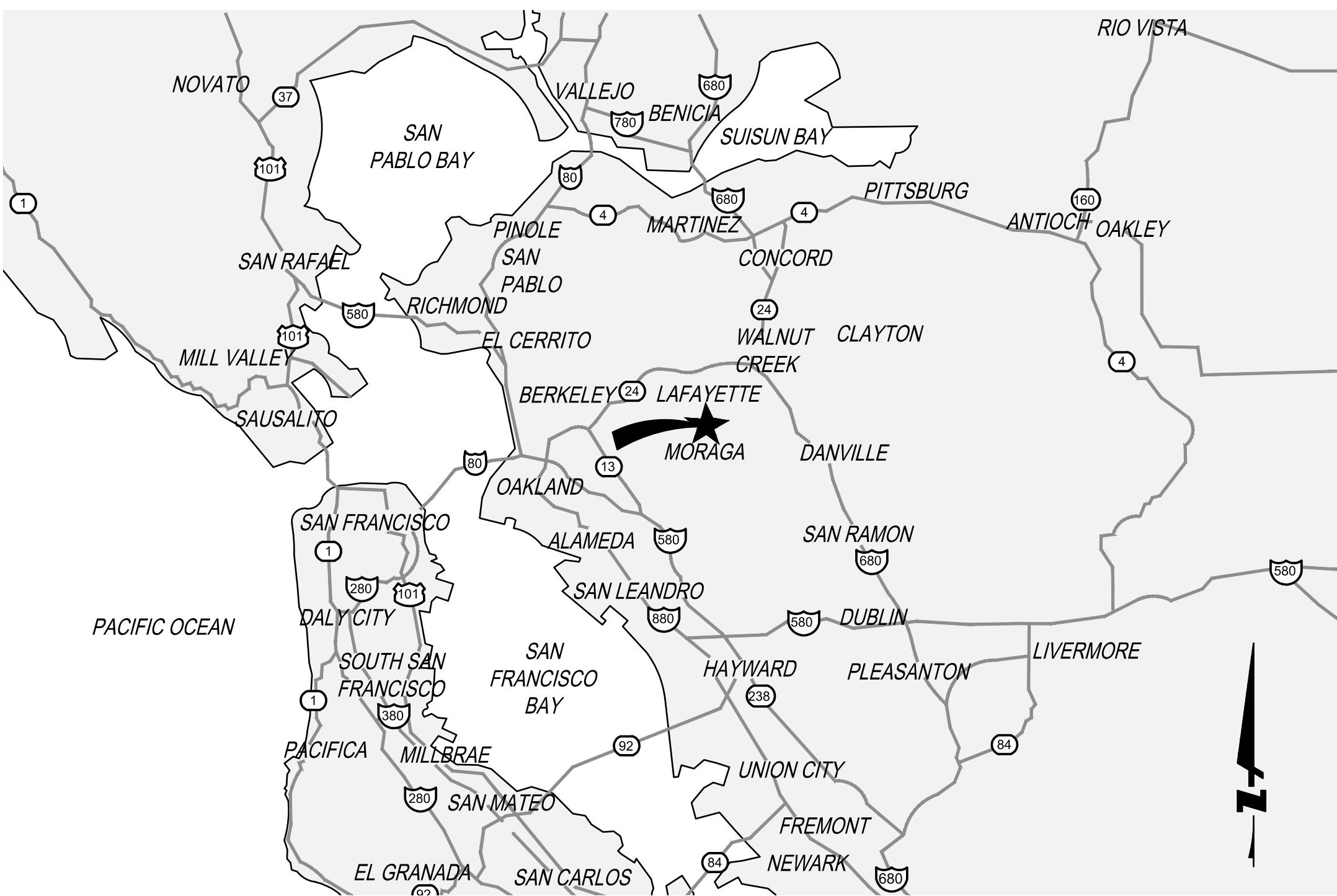
TOWN OF MORAGA

LAGUNA CREEK RESTORATION AND FLOOD PROTECTION PROJECT

CIP NUMBER 16-201



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

SHEET INDEX

SHT NO	SHT REF	DESCRIPTION
1	TS-01	TITLE SHEET
2	GN-01	GENERAL NOTES
3	KM-01	KEY MAP
4	EX-01	EXISTING CONDITIONS PLAN
5	DE-01	DEMOLITION PLAN
6	IM-01	IMPROVEMENT PLAN
7	GR-01	GRADING & UTILITY PLAN
8	GR-01	GRADING ENLARGEMENTS
9	CD-01	CROSS SECTIONS
10	CD-01	CONSTRUCTION DETAILS
11	LI-01	NOTES & SCHEDULE
12	LI-02	PLANS
13	LI-03	DETAILS
14	LI-04	LANDSCAPE IMAGES
15	LI-05	LANDSCAPE IMAGES
16	LI-06	LANDSCAPE IMAGES

LEGEND:

— — — — —	PROPERTY LINE
— — — — —	EASEMENT LINE
— — — — —	PERCEIVED PROPERTY LINE
— — — — —	OVERHEAD LINE
— — — — —	SANITARY SEWER LINE
— — — — —	ELECTROLIER
— — — — —	GUY WIRE
— — — — —	SANITARY SEWER MANHOLE
— — — — —	POWER OR JOINT POLE
— — — — —	SIGN
— — — — —	STORM DRAIN MANHOLE
— — — — —	STREET LIGHT
— — — — —	VALVE
— — — — —	ASPHALT BERM
— — — — —	ASPHALT CONCRETE
— — — — —	AREA DRAIN
— — — — —	AREA INLET
— — — — —	BUILDING
— — — — —	BACK OF WALK
— — — — —	CHAIN LINK FENCE
— — — — —	COLUMN
— — — — —	CONCRETE
— — — — —	DROP INLET
— — — — —	DOOR
— — — — —	ELECTRIC BOX
— — — — —	EDGE OF PAVEMENT
— — — — —	EUCALYPTUS TREE
— — — — —	FENCE
— — — — —	FLOWLINE

G OR GND	GROUND
GA	GATE
GP	GUARD POST
GR:	GRATE ELEVATION
HB	HOSE BIB
HCR	HANDICAP RAMP
HI	HIGH
JP	JOINT POLE
MH	MANHOLE
O.R.	OFFICIAL RECORDS
RIM:	RIM ELEVATION
RUDR	ROLL-UP DOOR
SDCO	STORM DRAIN CLEANOUT
SDMH	STORM DRAIN MANHOLE
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
SW OR S/W	SIDEWALK
T	TREE
TC	TOP OF CURB
TYP	TYPICAL
TOW	TOP OF WALL
UB	UTILITY BOX
UTIL	UTILITY
WDF	WOOD FENCE
WIF	WROUGHT IRON FENCE
WM	WATER METER
WV	WATER VALVE

PROJECT CONTACTS

CIVIL ENGINEER

BKF ENGINEERS
DAYNE JOHNSON
1646 N. CALIFORNIA BLVD, SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200

LANDSCAPE

RESTORATION DESIGN GROUP
ANNEKE SWINEHART
2332 FIFTH ST.
BERKELEY, CA 94710
(510) 644-2798

REVIEWED AND APPROVED BY:



TOWN ENGINEER

DATE



Know what's below.
Call before you dig.

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



1646 N. CALIFORNIA BLVD.
SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200
www.bkf.com



CALIFORNIA
BKF WC
BKF WC

LAGUNA CREEK RESTORATION TITLE SHEET

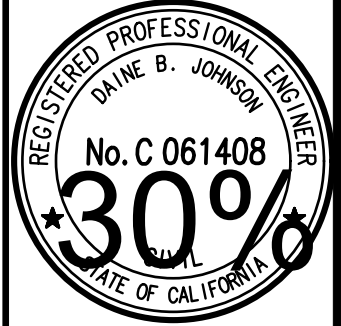
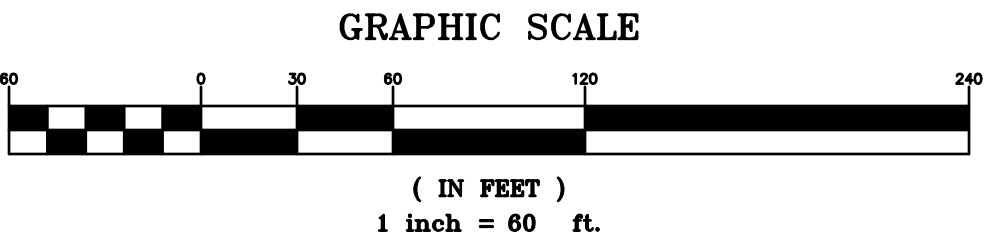
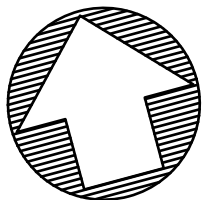
DATE	APRIL 2021	SCALE	AS SHOWN
BRF JOB NO.	201226		
SHEET NO.	1	OF	16
FILE NO.	TS.01		



KEY MAP
SCALE 1"=60'

LEGEND:

- PROPERTY LINE
- EASEMENT



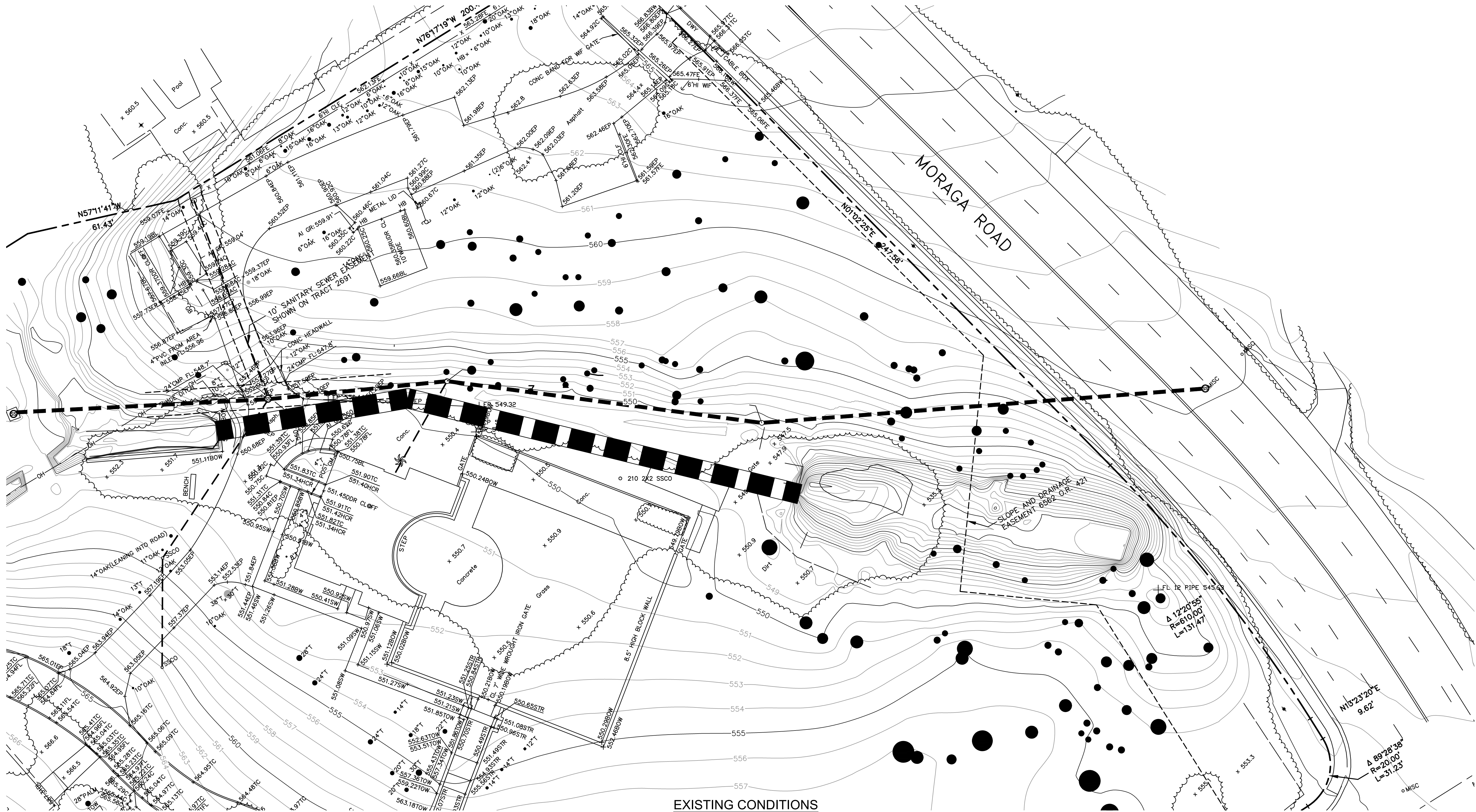
1646 N. CALIFORNIA BLVD.
SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200
www.bkf.com

BKF

DRAWN: BKF WC
CHECKED: BKF WC
APPROVED: DJ

LAGUNA CREEK RESTORATION
KEY MAP

DATE	SCALE
APRIL 2021	AS SHOWN
BRF JOB NO.	201226
SHEET NO.	3 OF 16
FILE NO.	KM-01



LEGEND:

- PROPERTY LINE
- EASEMENT
- EXISTING TREE (SIZE VARIES)

NOTES:

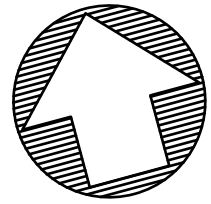
- SEE TITLE SHEET FOR EXISTING LEGEND.

BASIS OF BEARINGS:

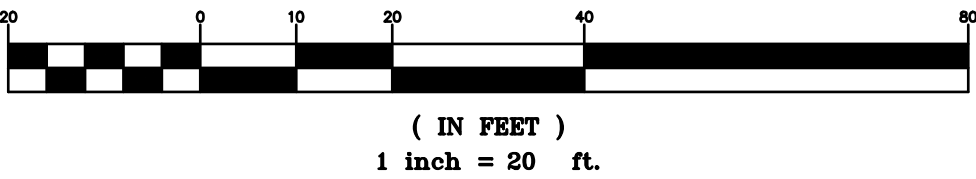
THE BEARINGS USED ON THIS SURVEY ARE BASED ON THE CONTRA COSTA COUNTY CONTROL PROJECT, GPS1659, NAD83, CALIFORNIA COORDINATE SYSTEM ZONE 3.

VERTICAL CONTROL:

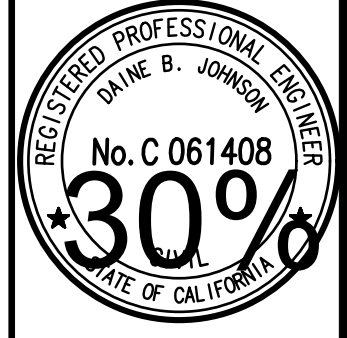
THE CONTROL POINT DE8505 STAMPED NO.56 2000, CONTRA COSTA COUNTY CONTROL PROJECT, GPS1659, TAKEN AS 613.6 FEET, NAVD 88 DATUM



GRAPHIC SCALE



REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPROVED



1646 N. CALIFORNIA BLVD.
SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200
www.bkf.com

CHECKED: DJ
APPROVED: BKF WC
DRAWN: BKF WC

CITY OF MORAGA

LAGUNA CREEK RESTORATION
EXISTING CONDITIONS

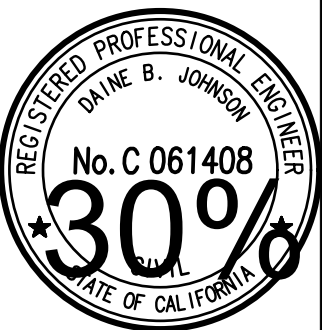
CITY OF MORAGA

DATE: APRIL 2021
SCALE: AS SHOWN

BRF JOB NO: 201226

SHEET NO: 4 OF 16

FILE NO: EX-01



1646 N. CALIFORNIA BLVD.
SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200
www.bkf.com



CHECKED: D.J.

BKF W

RAWN:

CALIFORNIA

LAGUNA CREEK RESTORATION DEMOLITION PLAN

CITY OF MOBILE

DATE	SCALE
APRIL 2021	AS SHOWN

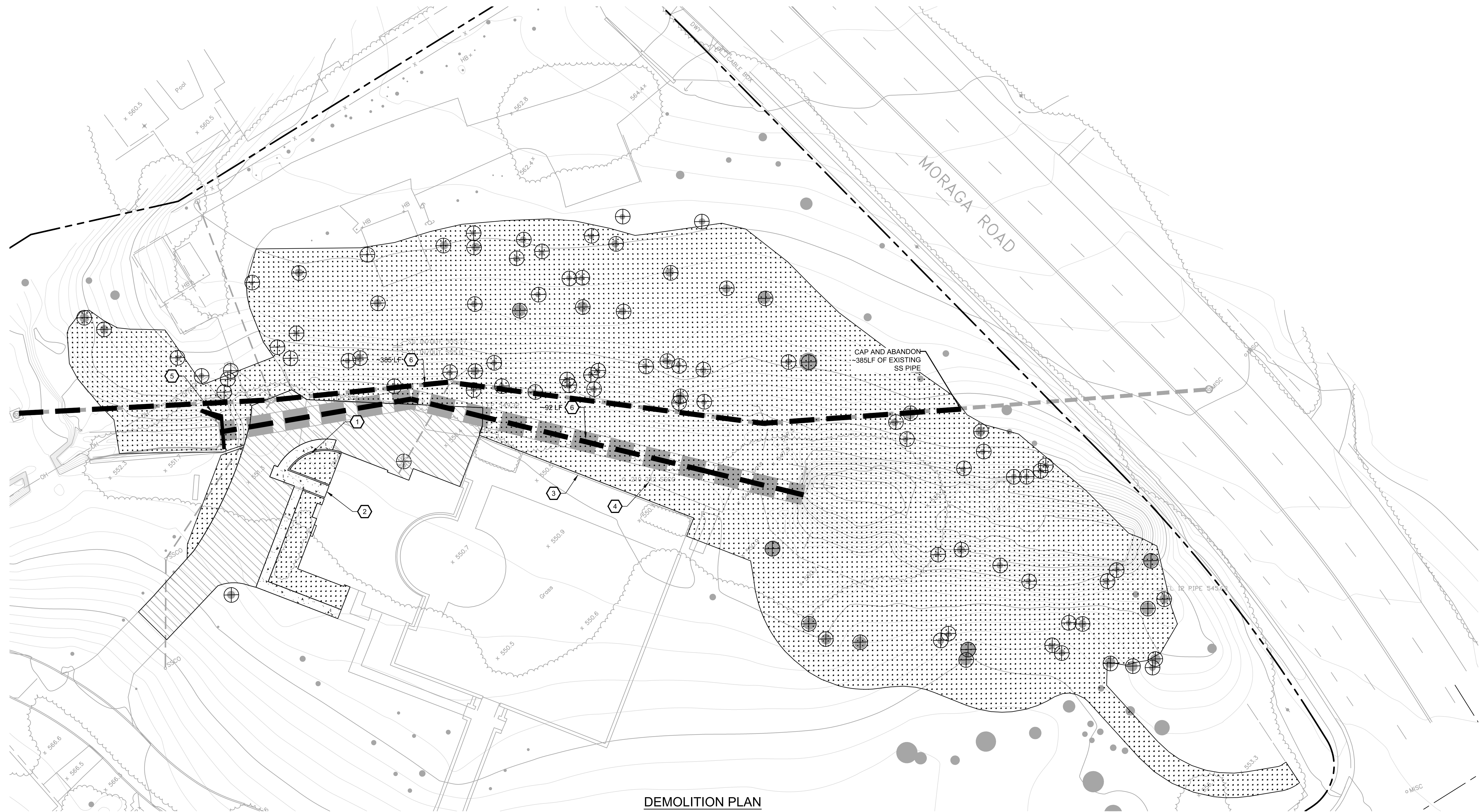
BKF JOB NO. 201226

SHEET NO. _____

5 OF 16

DE-01






30% DESIGN DOCUMENTS 04/28/2021

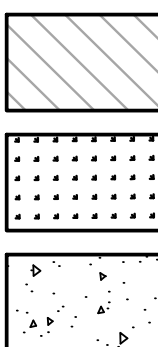


KEY NOTES:

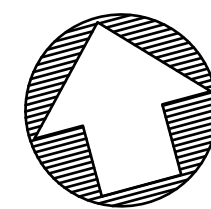
- | | | | |
|---|-----------------------------------|---|-----------------------|
| 1 | REMOVE CURB | 6 | ABANDON PIPE IN PLACE |
| 2 | REMOVE RAMP | | |
| 3 | PROTECT EX WALL | | |
| 4 | STORAGE SHED TO BE RELOCATED | | |
| 5 | REMOVE EXISTING WING WALL SEGMENT | | |

LEGEND:

-  PROPERTY LINE
 EASEMENT
 REMOVE TREE
 REMOVE EXISTING PIPE
 ABANDON EXISTING PIPE



- REMOVE AC
- CLEAR AND GRUB
- REMOVE CONCRETE



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft



IMPROVEMENT PLAN
SCALE 1"=20'

LEGEND:

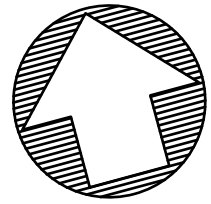
- PROPERTY LINE
- EASEMENT
- TOE OF BANK
- FLOODPLANE

- AC PAVEMENT
- DECOMPOSED GRANITE TRAIL
- LANDSCAPE AREA
SEE LANDSCAPE PLANS
- LANDSCAPE RESTORATION AREA
WITH REINFORCED FABRIC
SEE LANDSCAPE PLANS & SPECS
- CONCRETE SIDEWALK

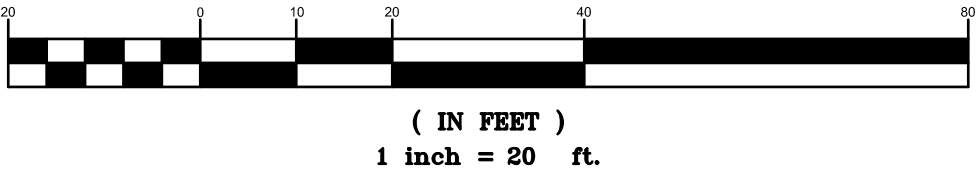
- 1 TON ROCK/BOULDERS -
BANK STABILIZATION
SEE SHEET CD-01
- CREEKBED RIVER ROCKS/PEBBLES
SEE SHEET CD-01
- 1-2 TON ROCK/BOULDERS -
PLUNGE POOLS
SEE SHEET CD-01
- FLOODPLANE AREA
COMBINATION OF RIVER ROCKS AND
PEBBLES WITH LANDSCAPE

KEY NOTES:

- 1 CURB
- 2 CURB RAMP
- 3 GUARD RAILING
SEE LANDSCAPE PLANS
- 4 CONSPAN BRIDGE
SEE BRIDGE PLAN SECTIONS
- 5 BRIDGE WINGWALL, TYP
- 6 VAN ACCESSIBLE STALL
- 7 DROP STRUCTURE
SEE SHEET CD-01
- 8 TOP OF BANK

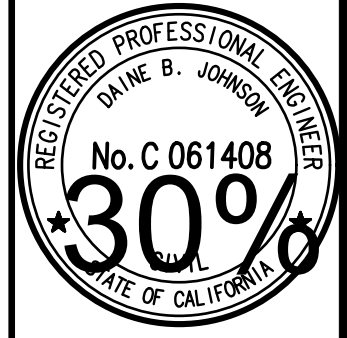


GRAPHIC SCALE

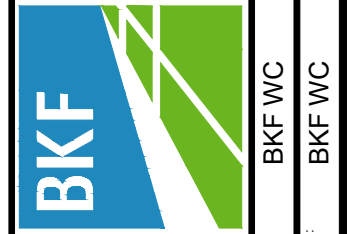


REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD
1				
2				
3				
4				
5				



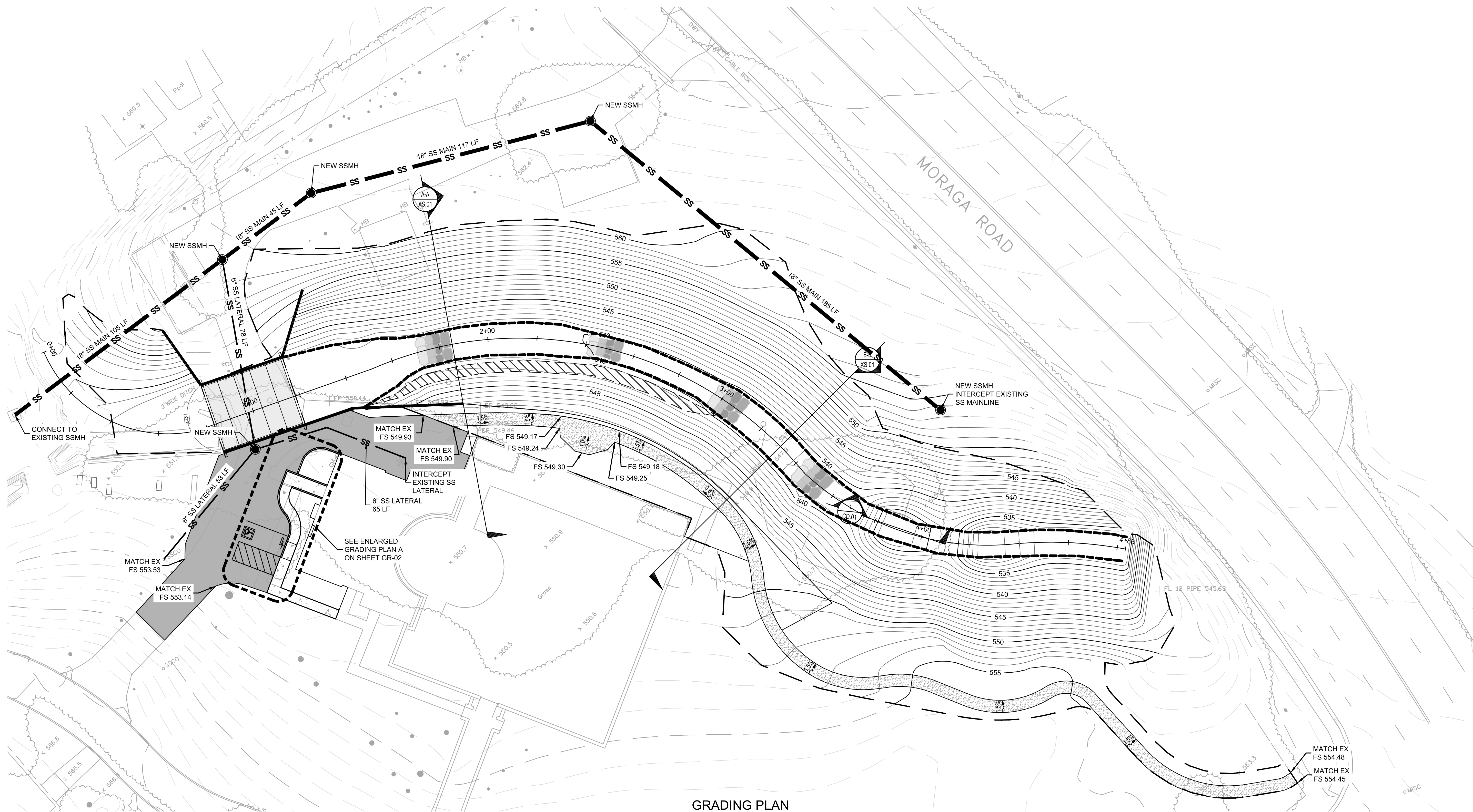
1646 N. CALIFORNIA BLVD.
SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200
www.bkf.com



CITY OF MORAGA
CALIFORNIA

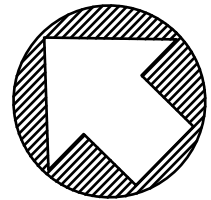
LAGUNA CREEK RESTORATION
IMPROVEMENT PLAN

DATE	SCALE
APRIL 2021	AS SHOWN
BRF JOB NO.	201226
SHEET NO.	6 OF 16
FILE NO.	IM-01

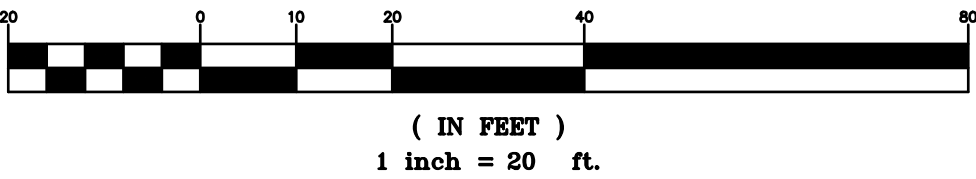


LEGEND:

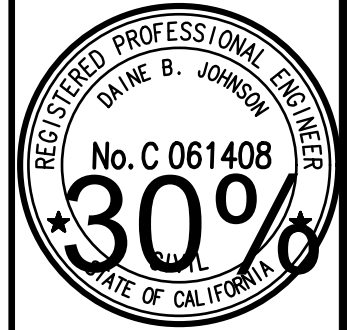
- PROPERTY LINE
- EASEMENT
- TOE OF BANK
- FLOOD BENCH
- SS 18" SANITARY SEWER MAINLINE
- SS 6" SANITARY SEWER LATERAL
- SANITARY SEWER MANHOLE




GRAPHIC SCALE



REVISIONS			
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			





1646 N. CALIFORNIA BLVD.
SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200
www.bkf.com

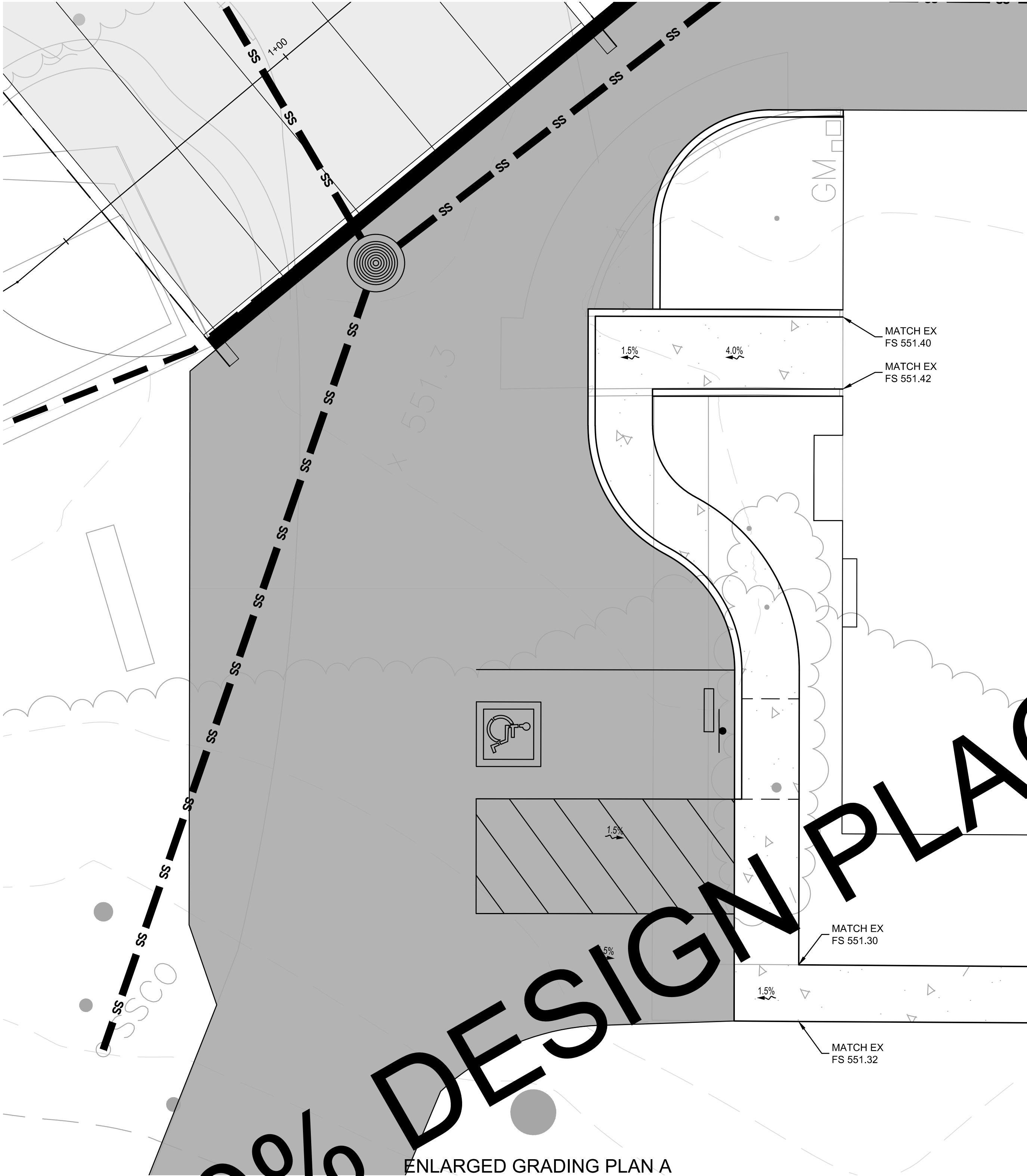
CHECKED: DJ
APPROVED: BKF WC
DRAWN: BKF WC

CITY OF MORAGA

LAGUNA CREEK RESTORATION
GRADING AND UTILITY
PLAN

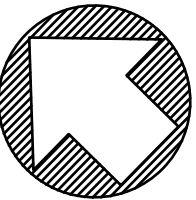
DATE: APRIL 2021
SCALE: AS SHOWN
SHEET NO: 7 OF 16
FILE NO: GR-01

30% DESIGN DOCUMENTS 04/28/2021

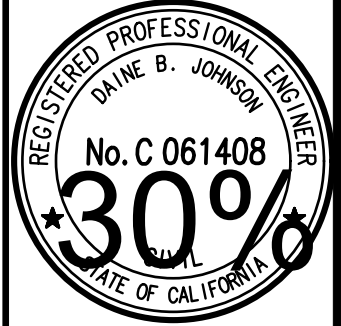
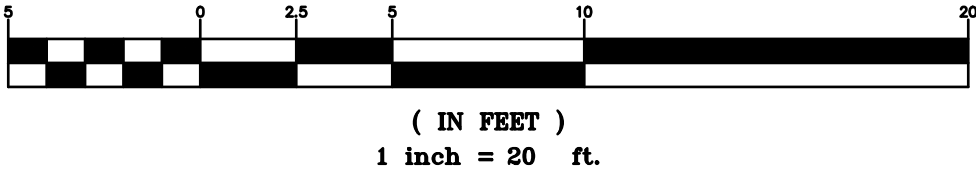


LEGEND:

- PROPERTY LINE
- EASEMENT
- TOE OF BANK
- FLOOD BENCH
- SS 18" SANITARY SEWER MAINLINE
- SS 6" SANITARY SEWER LATERAL
- SANITARY SEWER MANHOLE



GRAPHIC SCALE



1646 N. CALIFORNIA BLVD.
SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200
www.bkf.com

BKF

BKF WC

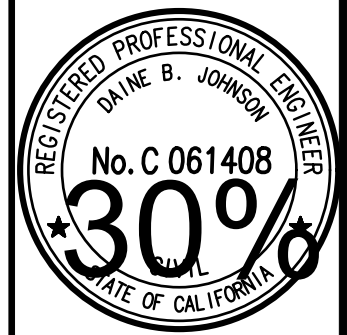
DJ

LAGUNA CREEK RESTORATION
ENLARGED GRADING
PLAN

DATE	SCALE
APRIL 2021	AS SHOWN
BRF JOB NO.	201226
SHEET NO.	8 OF 16
FILE NO.	GR-02



REVISIONS				
NO.	DESCRIPTION	BY	DATE	APP'VD
△				
△				
△				
△				



1646 N. CALIFORNIA BLVD.
SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200
www.bkf.com



1

5

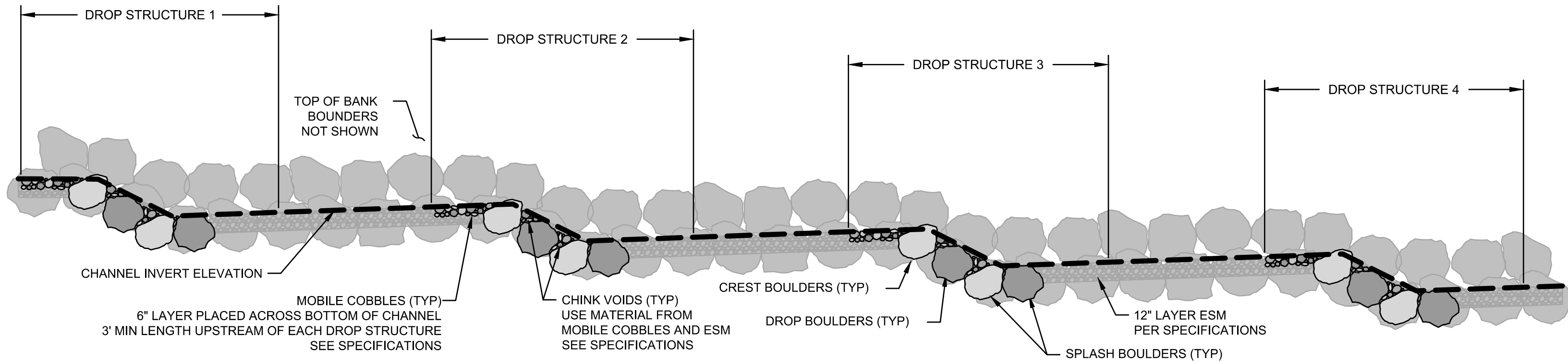
333

• 1997:

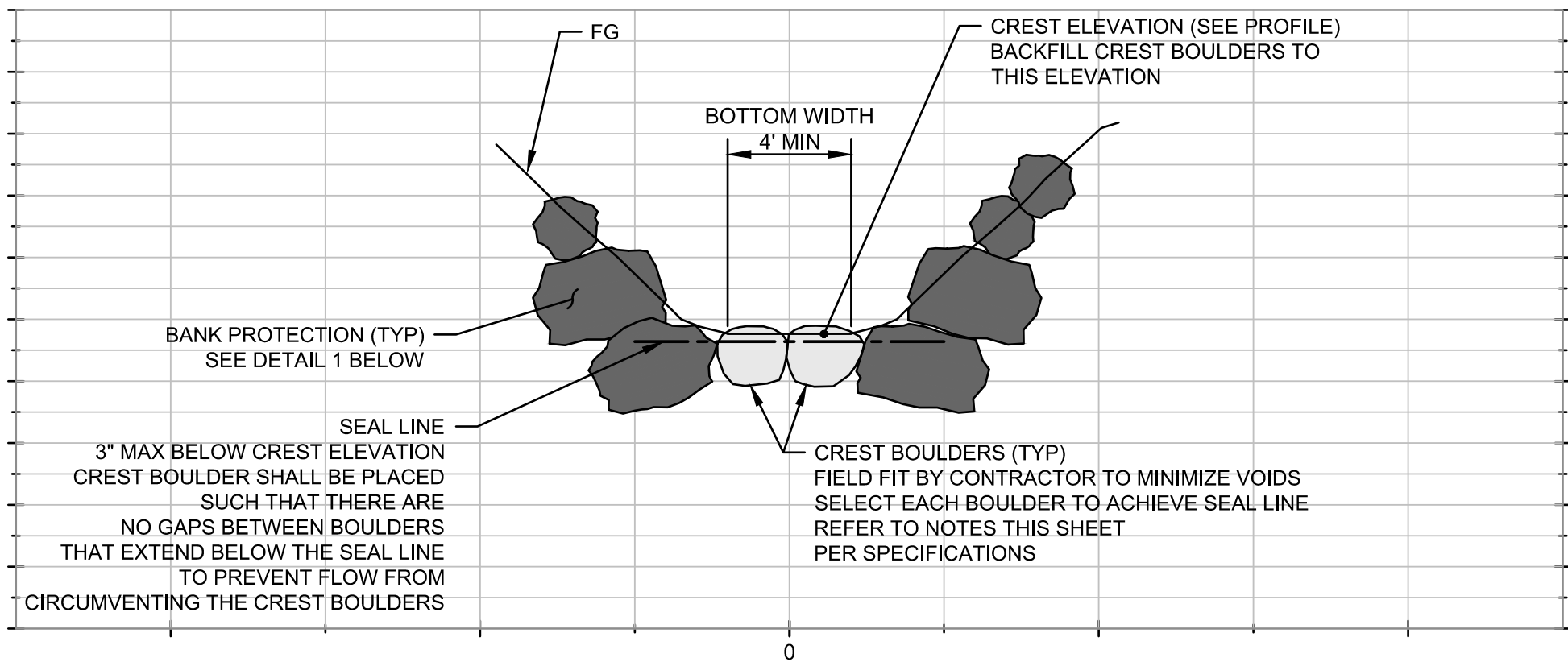
LAGUNA CREEK RESTORATION CROSS SECTIONS

CITY OF MOBAGA

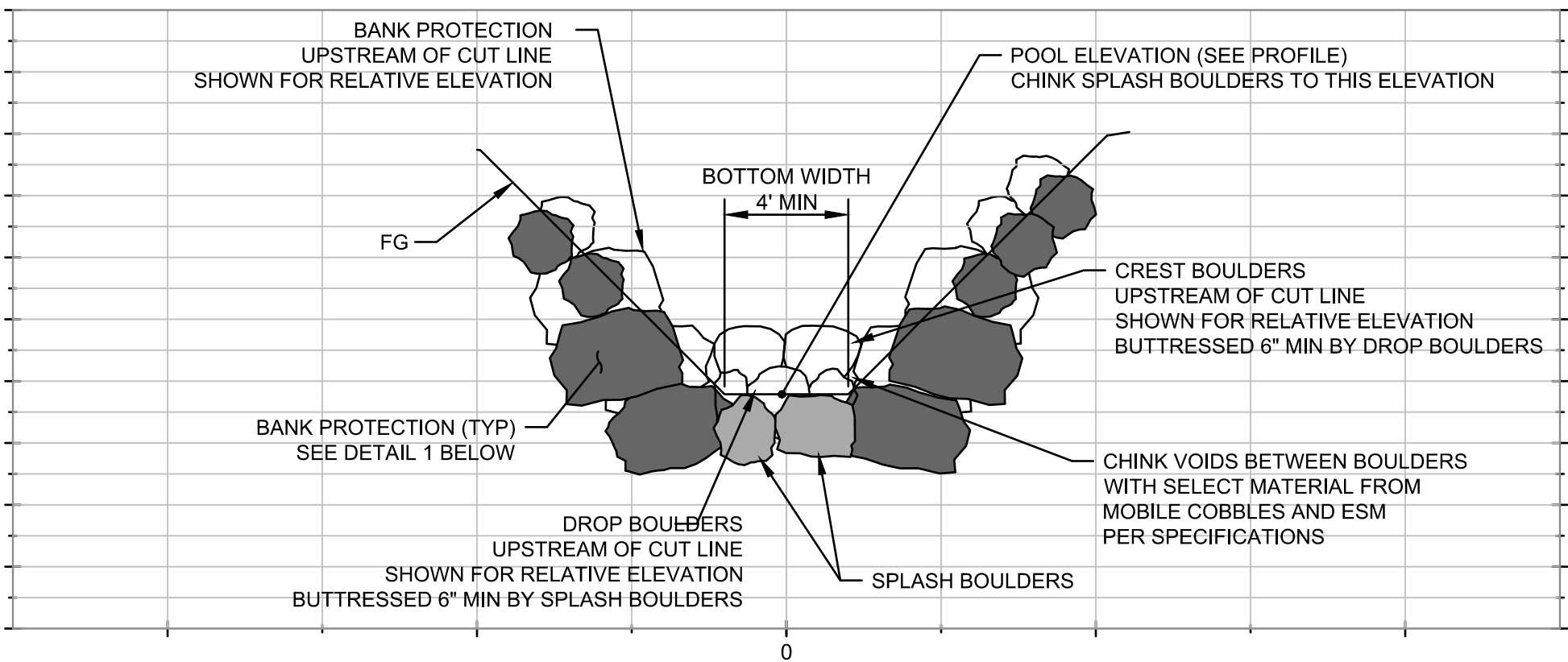
DATE APRIL 2021	SCALE AS SHOWN
BKF. JOB NO. 201226	
SHEET NO. 9 OF 16	
FILE NO. XS-01	



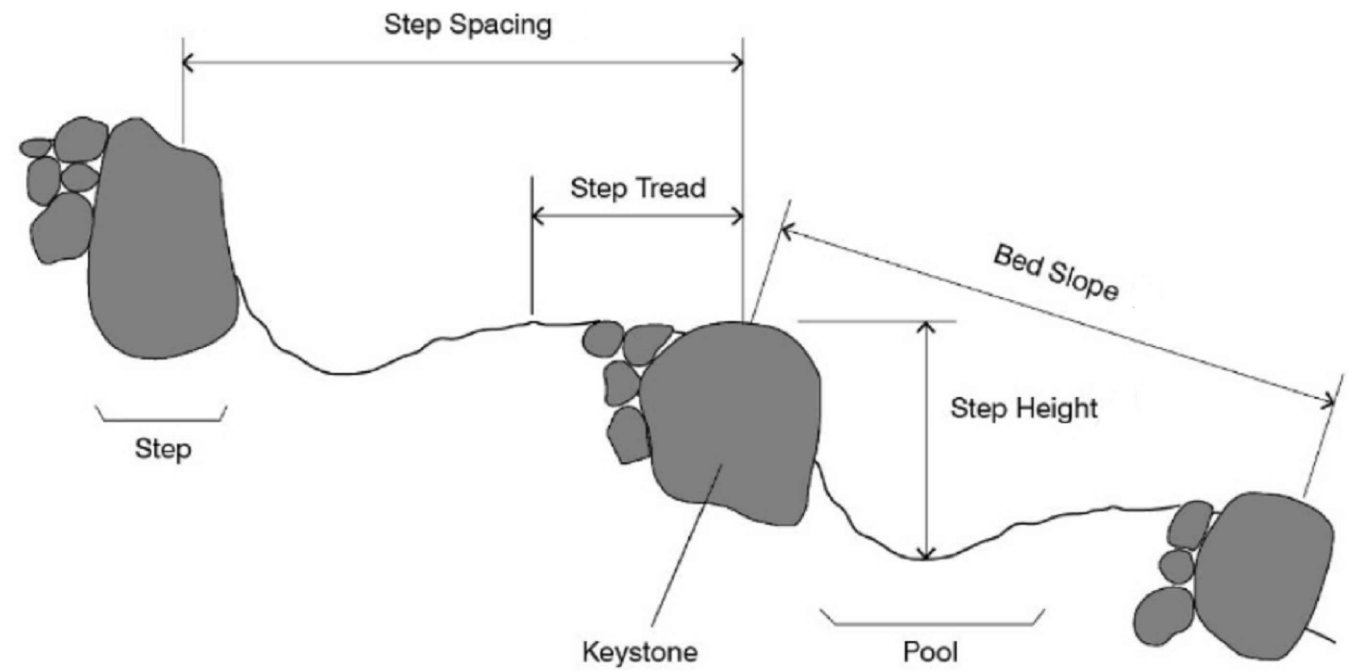
CREEK PROFILE SECTION



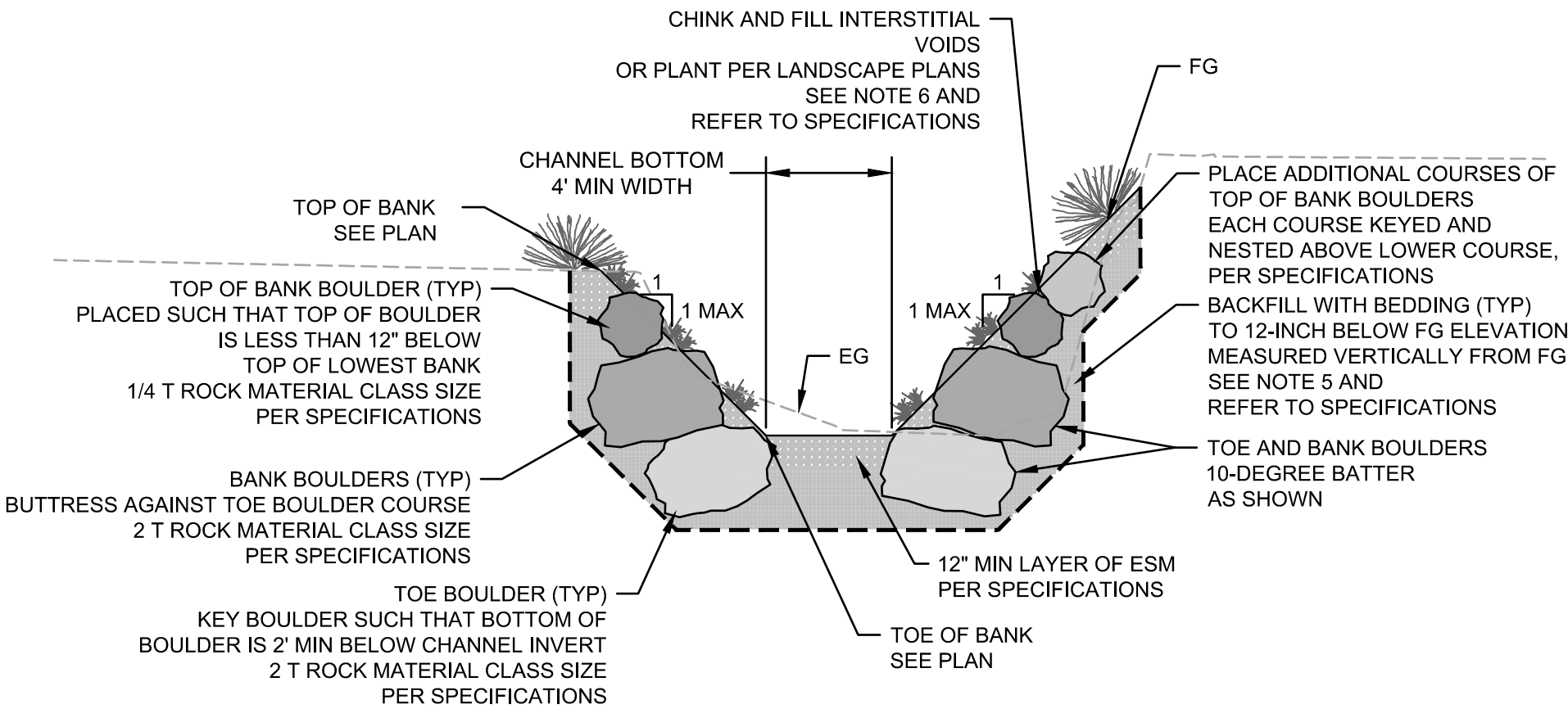
CREST BOULDER TYPICAL SECTION



SPLASH BOULDER TYPICAL SECTION



DETAIL 1: PLUNGE POOL PROFILE



VEGETATED BOULDER BANK PROTECTION

1
-

NOTES

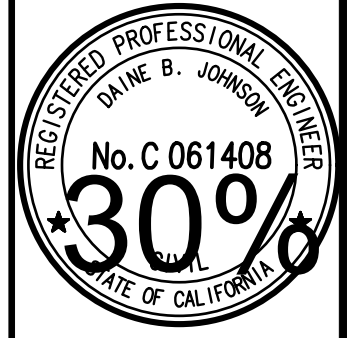
- CONSTRUCTION OF DROP STRUCTURES REQUIRES A SKILLED EQUIPMENT OPERATOR AND AN ATTENTION TO DETAIL.
- ELEVATION OF PLACED BOULDERS SHOULD BE REGULARLY CHECKED, AND BOULDER POSITION SHOULD BE ADJUSTED TO ACHIEVE THE DESIGN ELEVATION.
- THE LEAST DIMENSION OF AN INDIVIDUAL BOULDER SHOULD NOT BE LESS THAN ONE-THIRD THE GREATEST DIMENSION.
- BOULDERS USED IN DROP STRUCTURES SHALL BE FRESH, UNIFORMLY SOUND, DURABLE AND FREE FROM CRACKS, SEAMS, AND OTHER DEFECTS THAT INCREASES ITS DETERIORATION.
- ALL BOULDERS USED IN STRUCTURES IN THE CHANNEL SHOULD BE INDIVIDUALLY PLACED BY HAND AND/OR MACHINE AND SECURED IN DESIRED POSITION BY MACHINE TAMPING OF BOULDER AND SURROUNDING SUPPORT MATERIAL.
- BOULDERS FORMING THE DROP STRUCTURES SHOULD BE INDIVIDUALLY SELECTED BASED ON BEST FIT, AND PLACED TIGHTLY TOGETHER TO MINIMIZE GAPS, PREVENT OVERLAPPING SEAMS BETWEEN COURSES. EACH BOULDER SHOULD HAVE A MINIMUM OF THREE CONTACT POINTS WITH ADJACENT BOULDERS.
- BACKFILL BOULDERS USED IN DROP STRUCTURES AFTER PLACEMENT TO 12-INCH BELOW CHANNEL INVERT ELEVATION MEASURED VERTICALLY FROM THE CHANNEL INVERT ELEVATION, AND PER THE SPECIFICATIONS.
- SPLASH BOULDERS SHALL BE PLACED SUCH THAT TOP OF BOULDER IS FLUSH WITH POOL ELEVATION SHOWN IN PROFILE. CHINK SPLASH BOULDERS TO CHANNEL INVERT ELEVATION PER SPECIFICATIONS.
- DROP BOULDERS SHALL BE FIRMLY BUTTRESSED 6" MIN BY SPLASH BOULDERS. CHINK DROP BOULDERS TO CHANNEL INVERT ELEVATION PER SPECIFICATIONS.
- CREST BOULDERS SHALL BE PLACED SUCH THAT TOP OF BOULDER IS 3" ABOVE THE CREST ELEVATION, AND SEAL LINE IS LESS THAN 3" BELOW THE CREST ELEVATION. CREST BOULDERS SHALL FIRMLY TOUCH ADJACENT TOE PROTECTION BOULDERS AND SHALL BE FIRMLY BUTTRESSED 6" MIN BY DROP BOULDERS. CHINK CREST BOULDERS TO CREST ELEVATION PER SPECIFICATIONS.
- MOBILE COBBLES SHALL BE PLACED IN A 6-INCH LAYER UPSTREAM OF THE CREST BOULDERS AND UNDERLAIN WITH A 6-INCH LAYER OF ESM, PER THE SPECIFICATIONS.
- FILL ALL VOIDS BETWEEN BOULDERS USED IN DROP STRUCTURES WITH SELECT ROCKS FROM THE MOBILE COBBLES MATERIAL. FILL REMAINING VOIDS WITH SMALLER MATERIAL FROM THE ESM TO MINIMIZE PERMEABILITY. REFER TO SPECIFICATIONS.
- AFTER COMPLETION OF EACH DROP STRUCTURE FILL MATERIAL SHOULD BE TAMPED FURTHER INTO PLACED AND MATERIAL SPREAD INTO ANY VOIDS THAT APPEAR. REPEAT THIS PROCESS UNTIL ALL VOIDS ARE FILLED.
- REFER TO GRADING AND PROFILE SHEETS FOR PROPOSED ALIGNMENT AND ELEVATIONS.



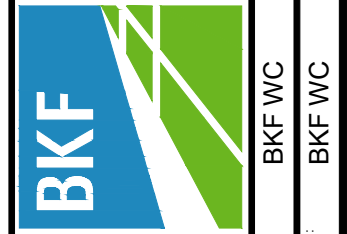
IMAGE 1 - CREEK BED ROCK PROTECTION

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPROVED
1				
2				
3				
4				
5				



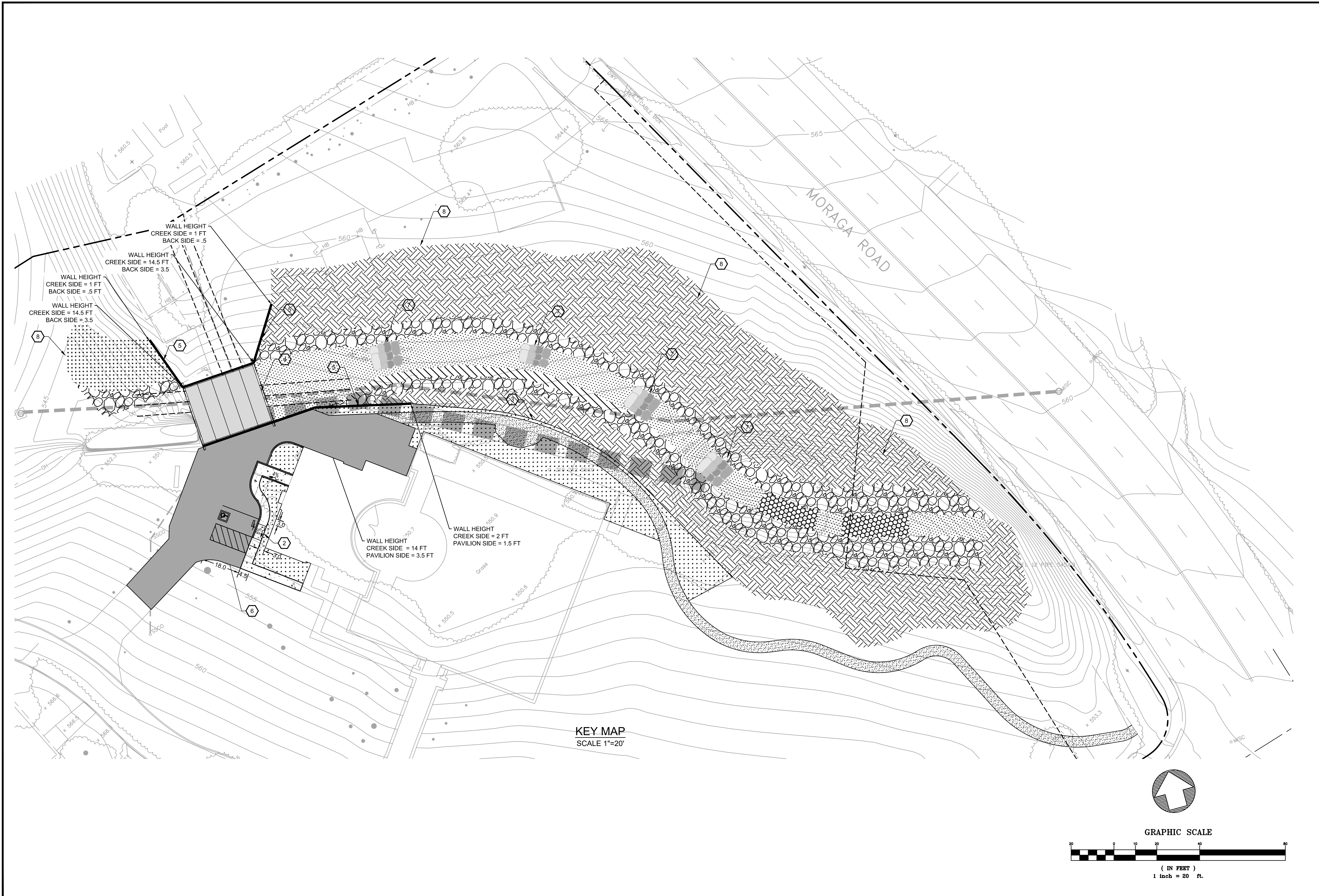
1646 N. CALIFORNIA BLVD.
SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200
www.bkf.com



DRAWN: BKF WC
CHECKED: BKF WC
DATE: 04/28/2021

LAGUNA CREEK RESTORATION
CONSTRUCTION
DETAILS

DATE	APRIL 2021	SCALE	AS SHOWN
BRF JOB NO.	201226		
SHEET NO.	10	OF	16
FILE NO.	CD-01		



DATE		SCALE	
APRIL 2021		AS SHOWN	
BRF JOB NO.		201226	
SHEET NO.		10 OF 16	
FILE NO.		EC-01	


CITY OF MORAGA		CITY OF MORAGA	
1646 N. CALIFORNIA BLVD. SUITE 400 WALNUT CREEK, CA 94596 (925) 940-2200 www.bkf.com		DRAWN: BKF WC CHECKED: BKF WC APPROVED: DJ	

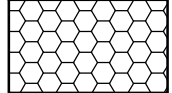
REVISIONS		REVISIONS	
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			

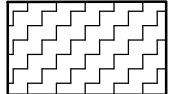
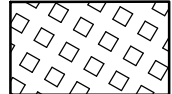
30% DESIGN DOCUMENTS 04/28/2021	
LAGUNA CREEK RESTORATION EROSION CONTROL	

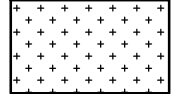
REGISTERED PROFESSIONAL ENGINEER
DAVID B. JOHNSON
No. C 061408
STATE OF CALIFORNIA

PLANTING ZONE PALETTES

	Common Name	Current Botanical Name	Plant Type	Deciduous / Evergreen	WUCOLS	Species Support
	UPPER RIPARIAN NORTH FACING					
	Common Yarrow	Achillea millefolium	Perennial herb	Evergreen,Summer Deciduous	L	
	Virgin's Bower	Clematis ligusticifolia	Vine	Summer Deciduous	L	
	Brown Dogwood	Cornus glabrata	Shrub,Tree	Winter Deciduous	M	
	Coastal Wood Fern	Dryopteris arguta	Fern		VL	
	Woodland Strawberry	Fragaria vesca	Perennial herb		L	
	Coffeeberry	Frangula californica	Shrub	Evergreen	L	
	Toyon	Heteromeles arbutifolia	Shrub	Evergreen	L	
	Douglas Iris	Iris douglasiana	Perennial herb	Evergreen	L	
	Large False Solomon's Seal	Maianthemum racemosum	Perennial herb		L	
	Imbricate Phacelia	Phacelia imbricata	Annual herb,Perennial herb	Summer Semi-Deciduous	VL	
	California Wildrose	Rosa californica	Shrub	Deciduous	L to M	HB
	Black Sage	Salvia mellifera	Shrub		VL	
	Blue Eyed Grass	Sisyrinchium bellum	Perennial herb	Summer Semi-Deciduous	L	
	California Aster	Symphotrichum chilense	Perennial herb	Winter Deciduous	VL	
	Fendler's Meadow-rue	Thalictrum fendleri	Perennial	Summer Semi-Deciduous	L	

	PAVILION ADJACENT					
	Foothill Sedge	Carex tumulicola	Perennial	Summer Semi-Deciduous	L	
	Bush Anemone	Carpenteria californica	Shrub	Evergreen	L	
	Western Redbud	Cercis occidentalis	Tree	Deciduous	M	
	Red Fescue	Festuca rubra	Grass	Evergreen	L	
	Woodland Strawberry	Fragaria vesca	Perennial herb	Evergreen	L	
	Wavyleaf Silktassel	Garrya elliptica	Shrub	Evergreen	VL	
	Toyon	Heteromeles arbutifolia	Shrub	Evergreen	L	
	Island Alumroot	Heuchera maxima	Perennial	Evergreen	L	
	Crevice Alumroot	Heuchera micrantha	Perennial	Evergreen	L	
	Douglas Iris	Iris douglasiana	Perennial herb	Evergreen	L	RF
	Coyote Mint	Monardella villosa	Perennial	Evergreen	L	
	California Wax Myrtle	Morella californica	Shrub	Evergreen	M	
	Western Swordfern	Polystichum munitum	Fern	Evergreen	M	RF
	Red Flowering Currant	Ribes sanguineum	Shrub	Deciduous	L	
	Dwarf Rose	Rosa gymnocarpa	Perennial	Evergreen	L	
	Giant Chain Fern	Woodwardia fimbriata	Fern	Evergreen	M	
	Blueblossom Ceanothus	Ceanothus thyrsiflorus	Shrub	Evergreen	Low	

 	Common Name	Current Botanical Name	Plant Type	D /E	WUCOLS	Species
	Common Yarrow	Achillea millefolium	Perennial herb	Evergreen,Summer Semi-Deciduous	L	
	Coyote Bush	Baccharis pilularis	Shrub	Evergreen	VL	HB
	Oregon Grape	Berberis aquifolium	Shrub	Evergreen	L	
	Wavy Leaved Ceanothus	Ceanothus foliosus	Shrub	Evergreen	VL	
	Blueblossom Ceanothus	Ceanothus thyrsiflorus	Shrub	Evergreen	L	
	Mountain Mahogany	Cercocarpus betuloides	Shrub	Evergreen	VL	
	California Aster	Corethrogyne filaginifolia	Perennial herb	Evergreen	VL	
	Toyon	Heteromeles arbutifolia	Shrub	Evergreen	L	
	Silver Lupine	Lupinus albifrons	Shrub	Evergreen	VL	
	Bush Monkey Flower	Mimulus aurantiacus	Shrub	Evergreen	VL	
	Hollyleaf Redberry	Rhamnus illicifolia	Shrub	Evergreen	L, VL	
	California Wildrose	Rosa californica	Shrub	Deciduous	L	HB
	Black Sage	Salvia mellifera	Shrub		VL	
	Common Snowberry	Symphoricarpos albus	Shrub	Deciduous	L to M	RF
	California Hazel	Corylus cornuta ssp. californica	Shrub	Deciduous	L	


	FLOODPLAIN/EC					
	Coastal Wood Fern	Dryopteris arguta	Fern	Evergreen	VL	
	Douglas Iris	Iris douglasiana	Perennial	Evergreen	L	RF
	Soft Rush	Juncus effusus	Perennial	Evergreen	M	RF
	Spreading Rush	Juncus patens	Perennial	Evergreen	M	RF
	Pacific Ninebark	Physocarpus capitatus	Shrub	Deciduous	M	
	Black Elderberry	Sambucus nigra	S / T	Deciduous	L	RF
	Blue Elderberry	Sambucus nigra ssp. caerulea	S / T	Deciduous	L	RF
	Bee Plant	Scrophularia californica	Perennial herb	Evergreen	L	
	California Hedgenettle	Stachys bullata	Perennial	Evergreen	M	RF

REVEGETATION LEGEND

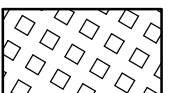
---	PROPERTY BOUNDARY
----	EDGE OF CHANNEL
- - - -	LIMIT OF WORK
-----	LIMIT OF GRADING
-----	MAJOR CONTOUR
-----	MINOR CONTOUR
-----	10' SANITARY SEWER OFFSET
-----	WOODEN FENCE

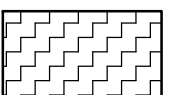
PLANTING ZONE PALETTES

	PAVILION ADJACENT PLANTING	650 SF
---	----------------------------	--------

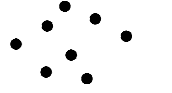
	UPPER RIPARIAN NORTH FACING	1,557 SF
---	-----------------------------	----------

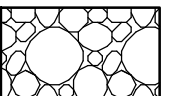
	FLOODPLAIN	922 SF
---	------------	--------

	RIPARIAN NORTH FACING	5,778 SF
---	-----------------------	----------

	RIPARIAN SOUTH FACING	11,346 SF
---	-----------------------	-----------

LIVE STAKING

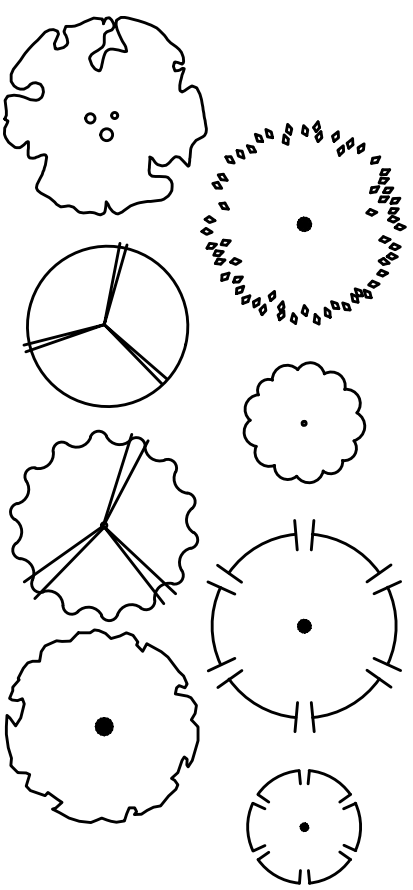
	COTTONWOOD POLES ON BANK AT DROP STRUCTURES	+/- 75
---	---	--------

	WILLOW / COTTONWOOD MIX LIVE CUTTINGS (JOINT PLANTING) 4' O.C. AVG	+/- 250
--	--	---------

SPECIES SUPPORT CODES

RF	<i>Rana draytonii</i>	California red legged frog
HB	<i>Lasiurus cinereus</i>	Hoary bat

TREES




GENERAL REVEGETATION NOTES

- THE FOLLOWING NOTES APPLY TO RESTORATION AND ORNAMENTAL PLANTINGS.
- PLANT SUBSTITUTIONS MUST BE APPROVED BY O.R. PRIOR TO PURCHASE AND DELIVERY.
- FINAL LAYOUT OF CONTAINER PLANTS TO BE APPROVED BY O.R. IN THE FIELD. CONTRACTOR TO PROVIDE MEANS OF MARKING PLANT LOCATIONS.
- SEED AREAS SHOWN ON PLANS. MULCH CONTAINER PLANTS PER DTL 3/L-5.11.
- SEED AND MULCH PRIOR TO OCTOBER 15TH.
- SEE SPECIFICATIONS FOR SEED MIXES AND ADDITIONAL REQUIREMENTS.
- PROVIDE TOUCH-UP SEEDING TO ALL AREAS DISTURBED AFTER ORIGINAL SEEDING.
- MULCH ALL UPLAND AREAS ABOVE BB NOT SEEDDED.

REVISIONS

					APPVD
					DATE
					BY
					DESCRIPTION
					NO.

Restoration Design Group, Inc.
2200 California Street, Suite 200
Berkeley, CA 94710
T 510.644.2798 F 510.644.2799
www.restorationdesigngroup.com



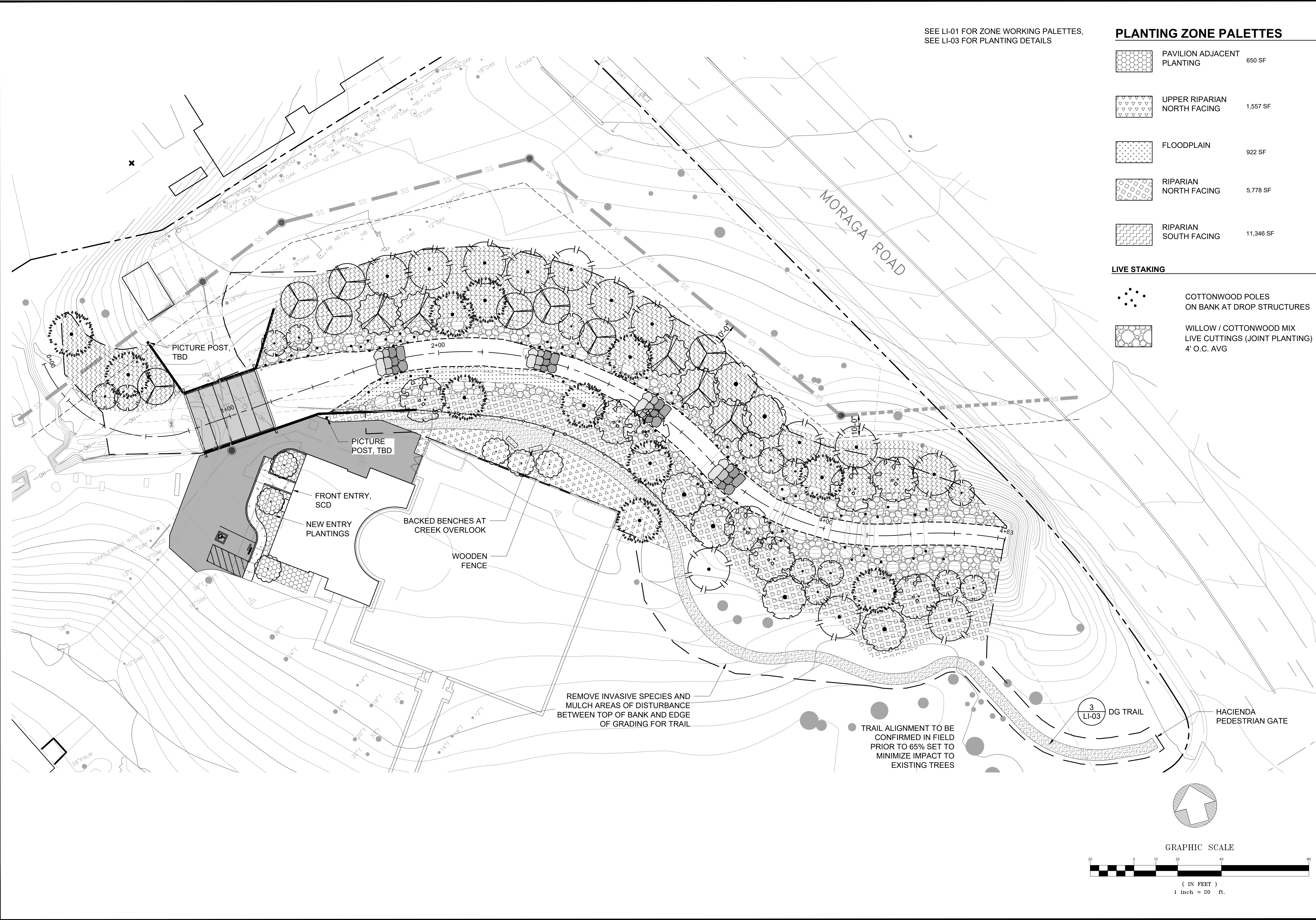
RDG | AS NO
RDG | AS ES

ES
DESIGNED
APPROVED

LAGUNA CREEK RESTORATION
REVEGETATION NOTES AND SCHEDULE
30% DESIGN

CITY OF MORAGA
CALIFORNIA

DATE APRIL 2021	SCALE AS SHOWN
SHEET NO. 201226	
11 OF 16	
FILE NO. LI-01	



SEE LI-01 FOR ZONE WORKING PALETTES,
SEE LI-03 FOR PLANTING DETAILS

PLANTING ZONE PALETTES

	PAVILION ADJACENT PLANTING	650 SF
	UPPER RIPARIAN NORTH FACING	1,557 SF
	FLOODPLAIN	922 SF
	RIPIARIAN NORTH FACING	5,778 SF
	RIPIARIAN SOUTH FACING	11,346 SF

LIVE STAKING

	COTTONWOOD POLES ON BANK AT DROP STRUCTURES
	WILLOW / COTTONWOOD MIX LIVE CUTTINGS (JOINT PLANTING) 4' O.C. AVG

REVISIONS				DESCRIPTION		BY	DATE	APPROVED
4								
3								
2								
1								

Restoration Design Group, Inc.
2200 University Ave.
Berkeley, CA 94710
T 510.644.2798 F 510.644.2799
www.restorationdesigngroup.com

RDG | AS NO

RDG | AS ES

DESIGNED

APPROVED

ES

LAGUNA CREEK RESTORATION
REVEGETATION PLAN
30% DESIGN

CITY OF MORAGA

DATE: APRIL 2021

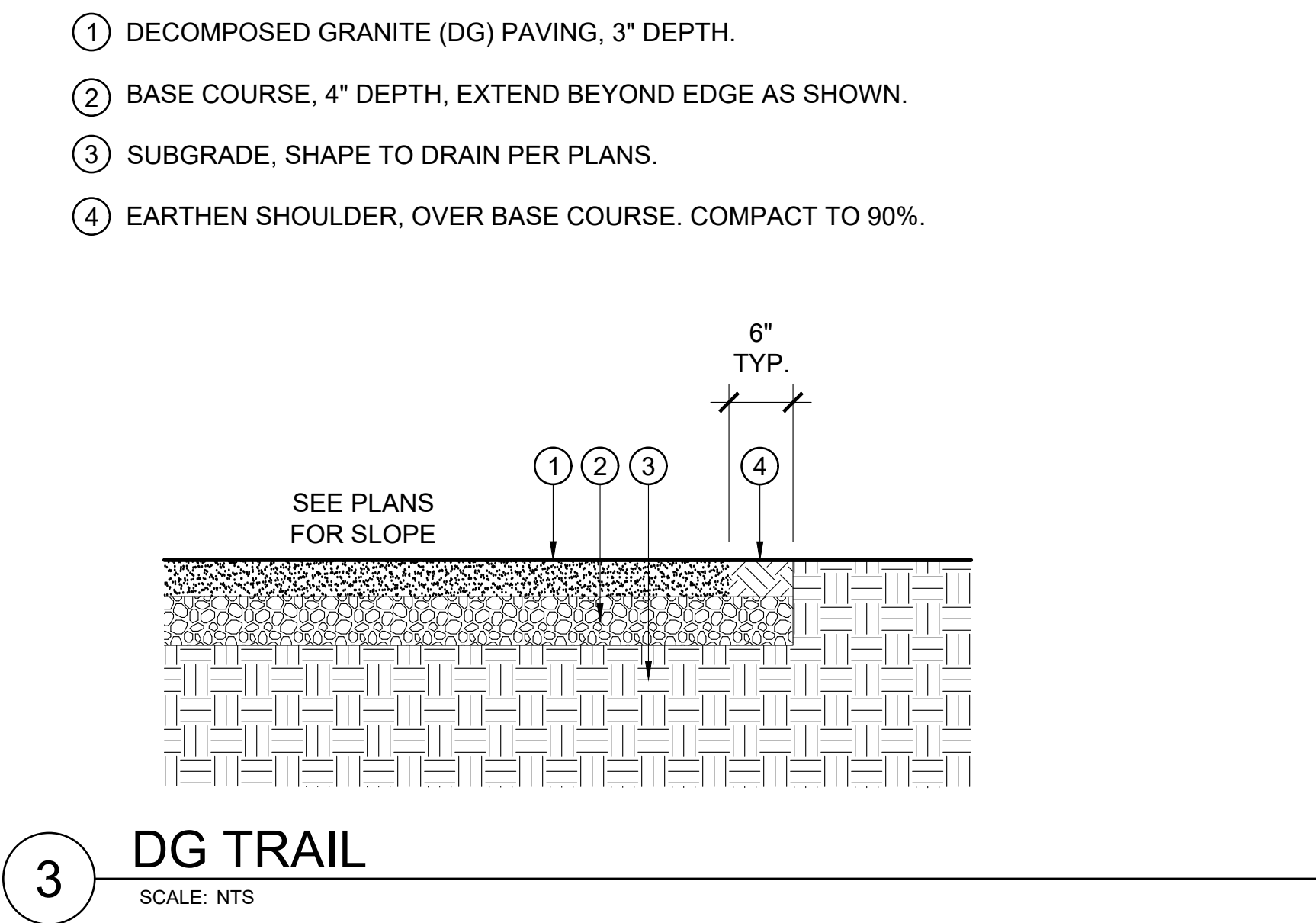
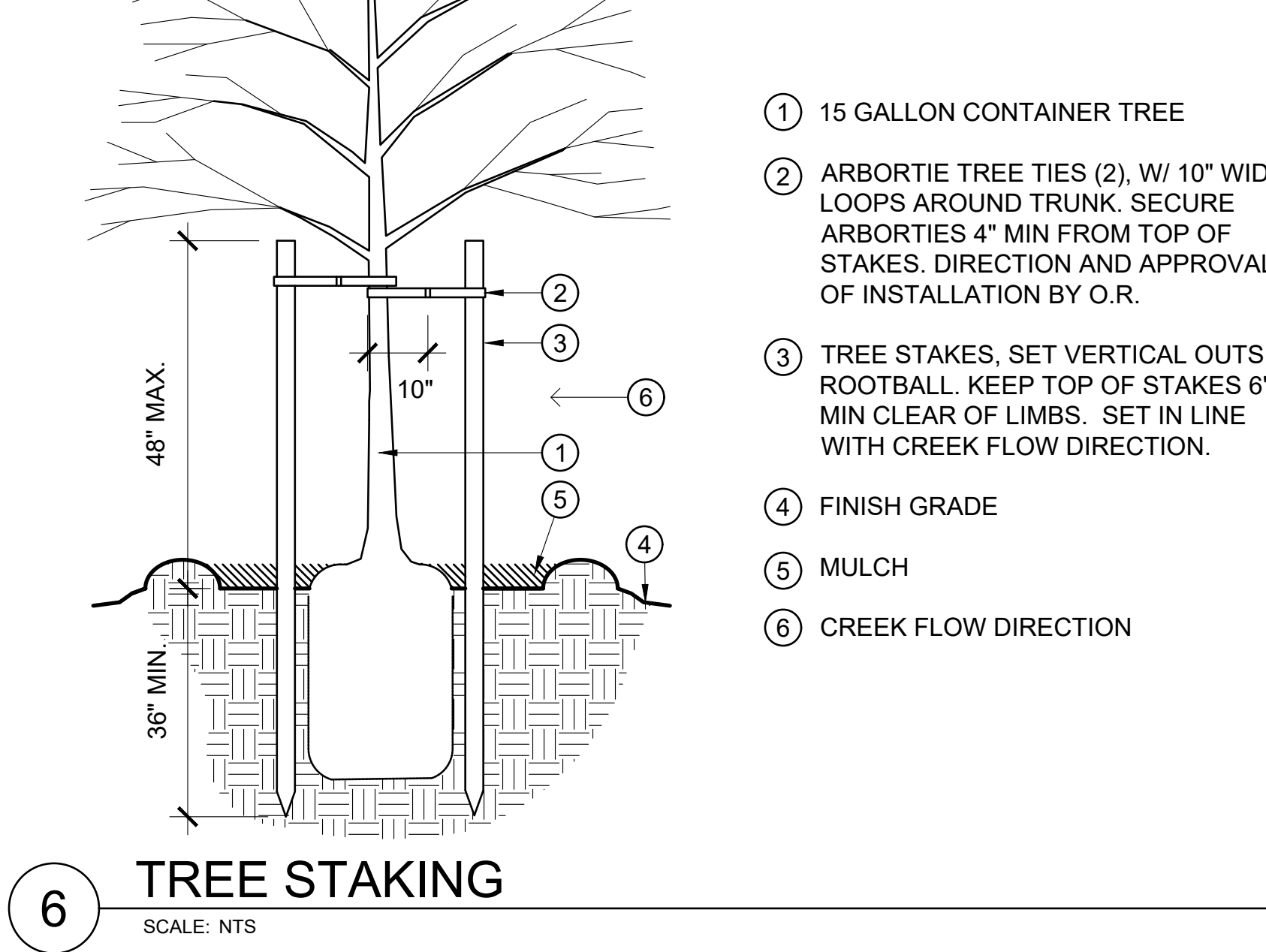
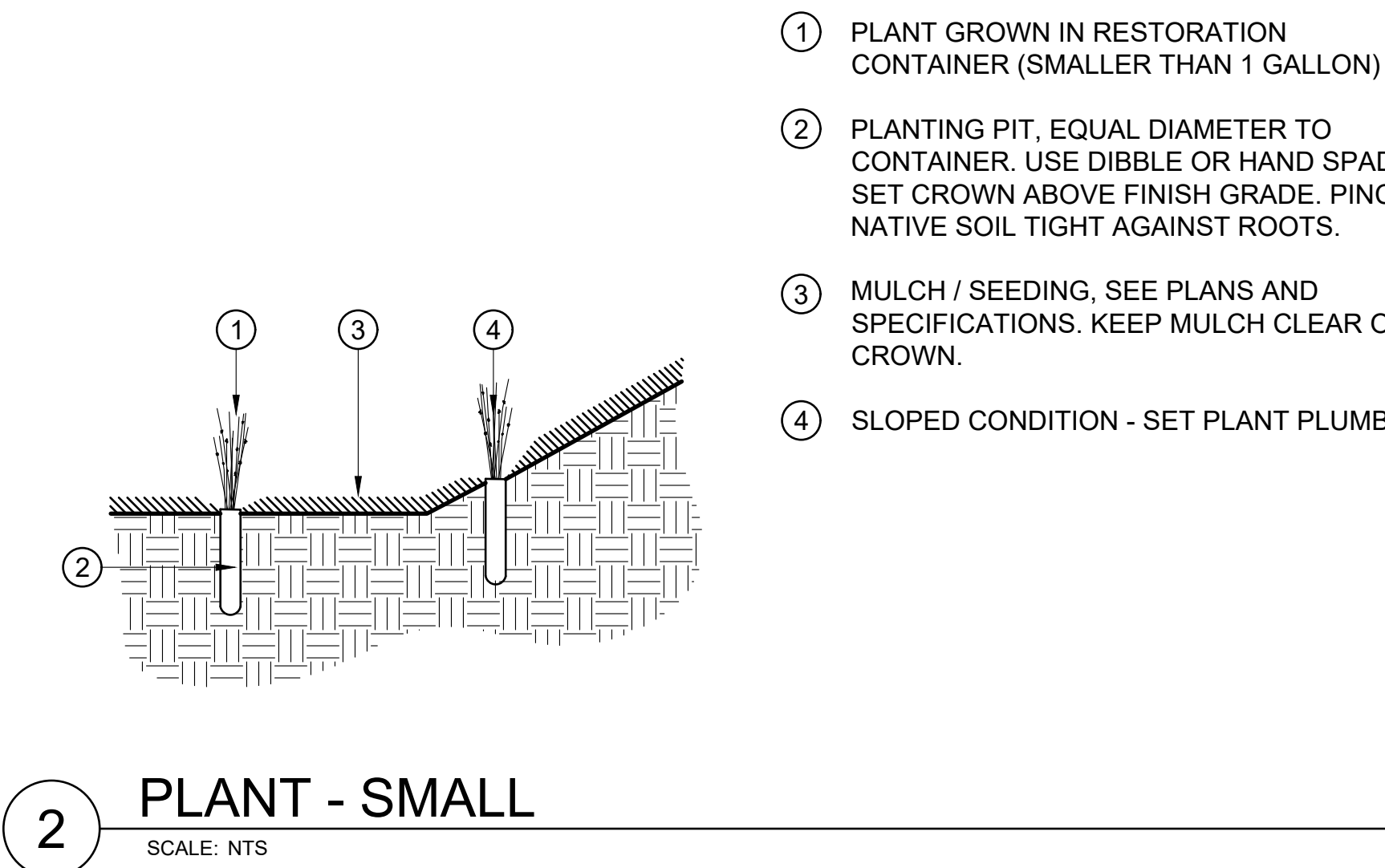
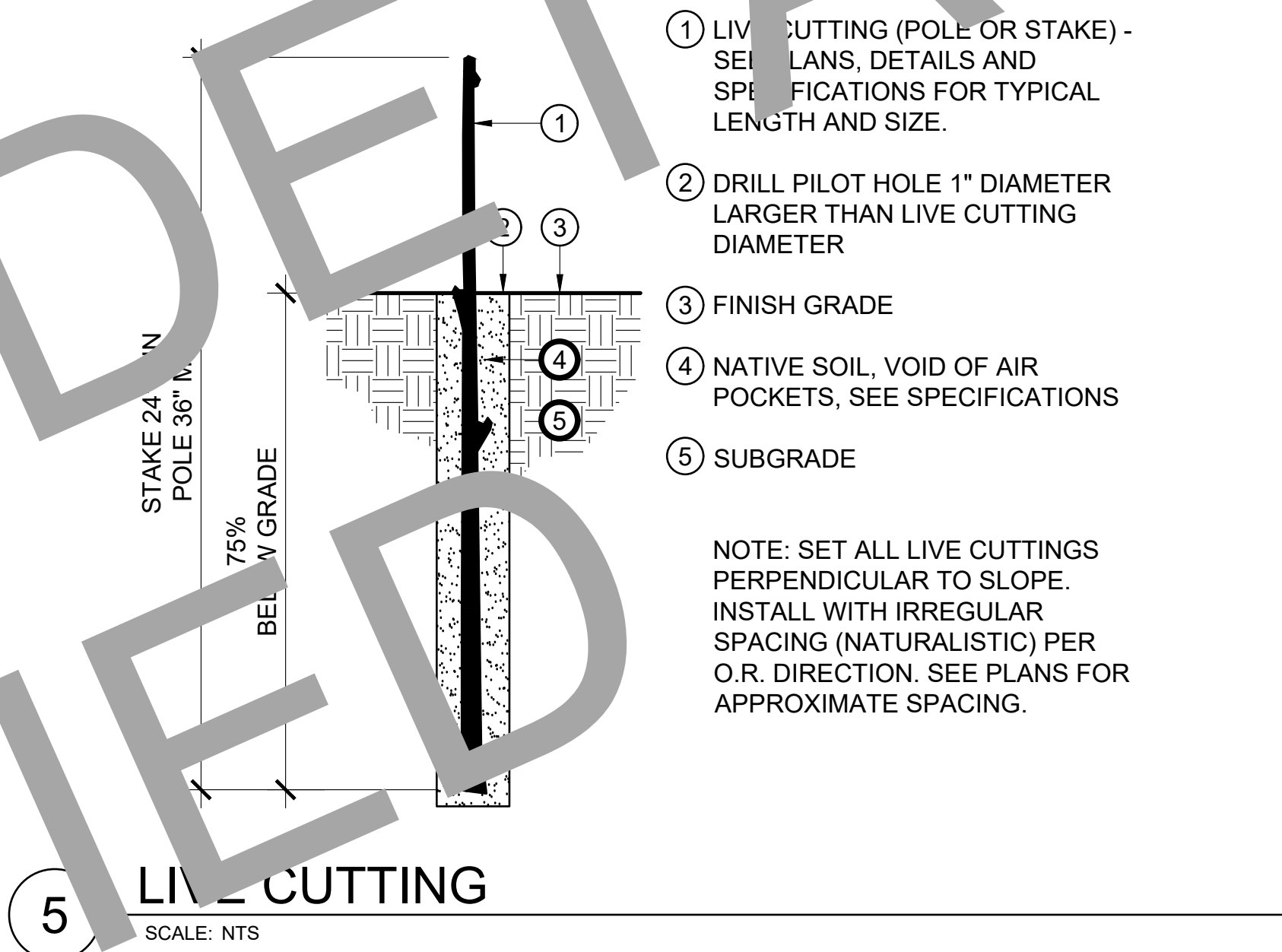
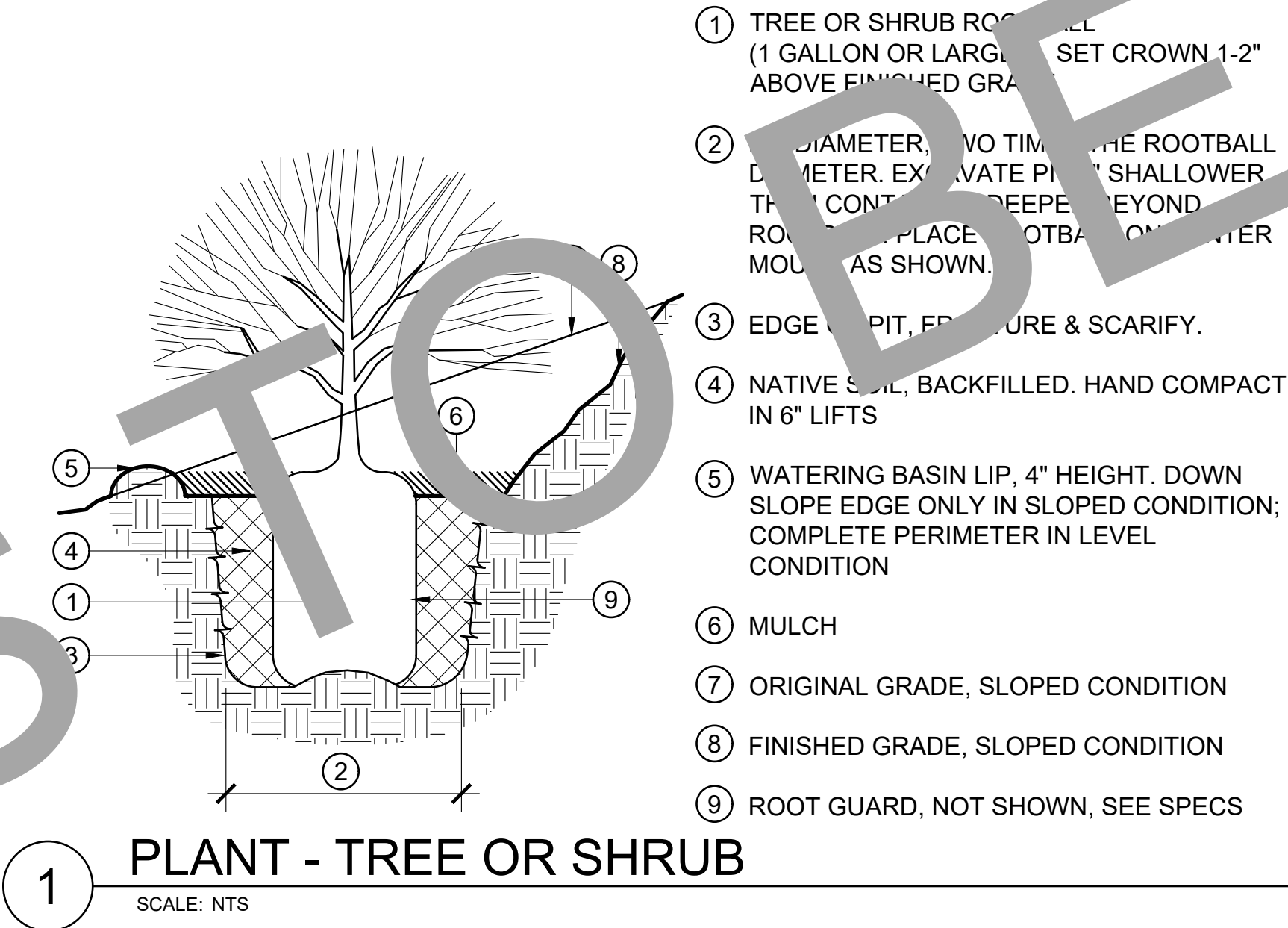
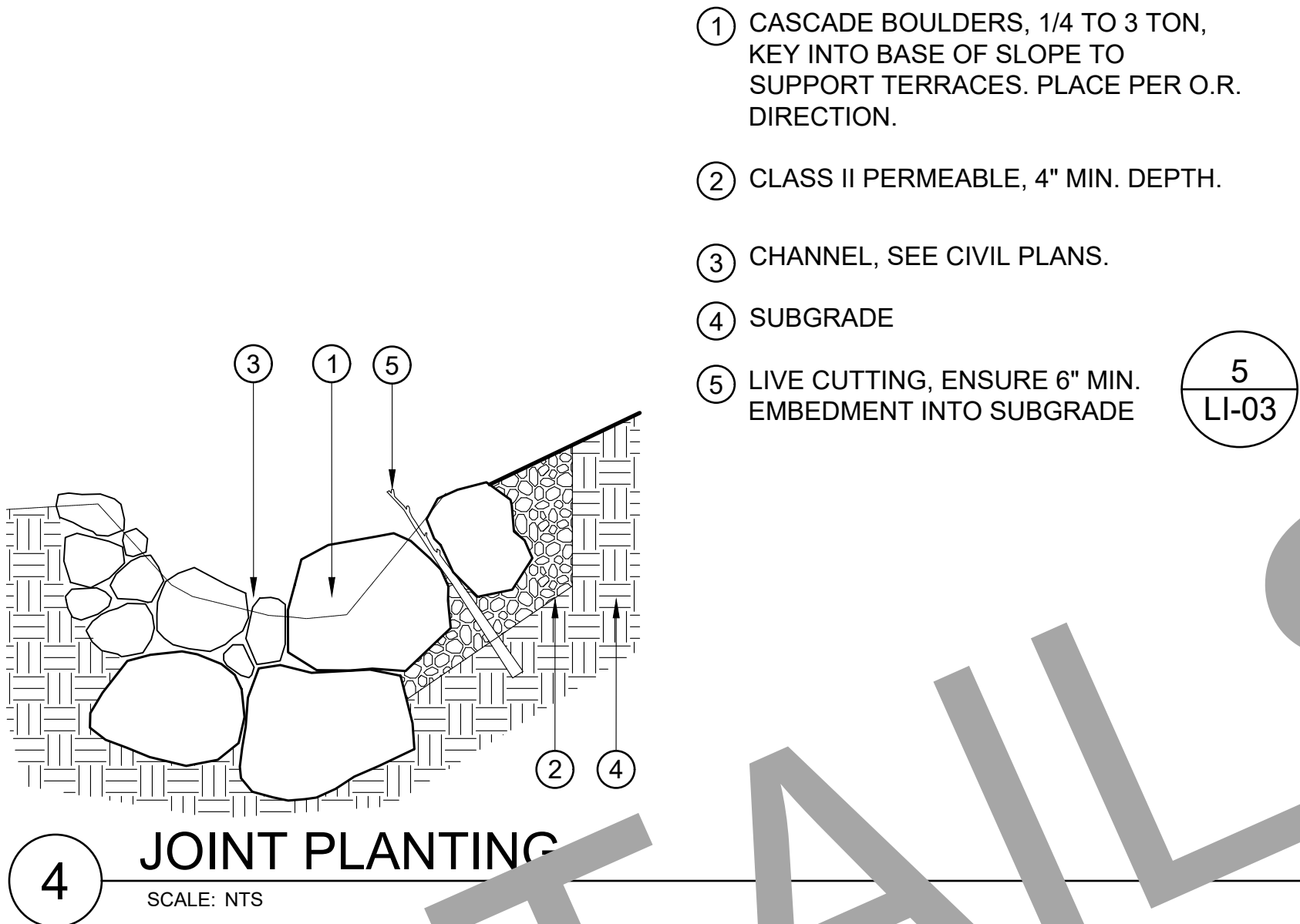
SCALE: AS SHOWN

SHEET NO. 201226

12 OF 16

FILE NO. LI-02

30% CONSTRUCTION DOCUMENTS 05/06/2021



REVISIONS				DESCRIPTION		BY		DATE		APPVD	
NO.	DATE	BY	APPVD	DESCRIPTION		BY		DATE		APPVD	
1											
2											
3											
4											

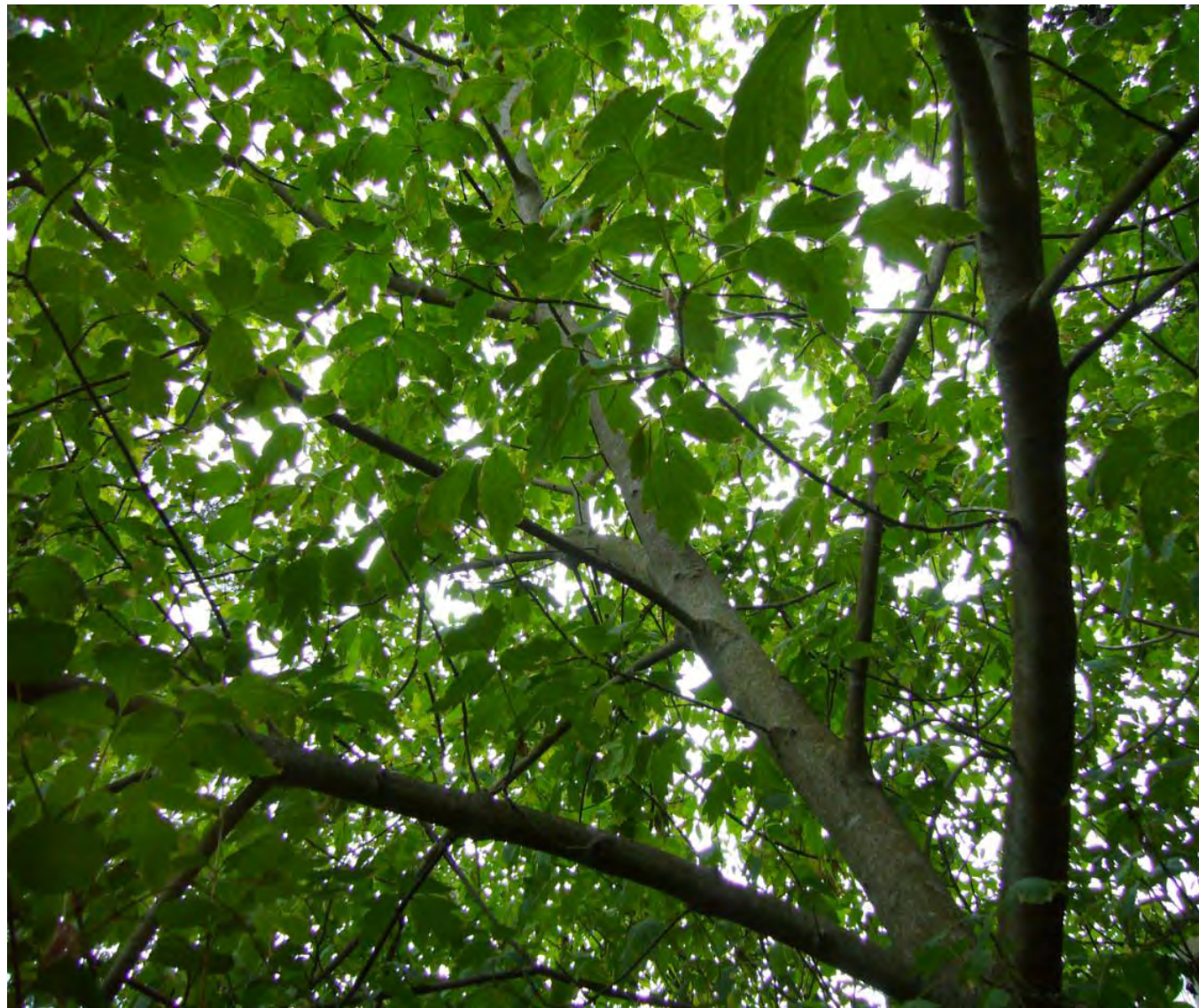
Restoration Design Group, Inc. 2250 California Street, Suite 200 Berkeley, CA 94710 T 510.644.2798 F 510.644.2799 www.restorationdesigngroup.com		DESIGNED	APPROVED	ES
RDG AS NO	RDG AS ES	DESIGNED	APPROVED	ES

LAGUNA CREEK RESTORATION LANDSCAPE DETAILS 30% DESIGN		CITY OF MORAGA	CALIFORNIA
DATE	APRIL 2021	SCALE	AS SHOWN
SHEET NO.	201226	OF	16
FILE NO.	LI-03		

TREE SELECTIONS



CERCIS OCCIDENTALIS | Western Redbud



ACER NEGUNDO | Box Elder



QUERCUS CHRYSOLEPIS | Canyon Live Oak



CORNUS GLABRATA | Brown Dogwood

FOUNDATION SHRUBS



CARPENTERIA CALIFORNICA | Bush Anemone



GARRYA ELLIPTICA | Wavyleaf Silktassel

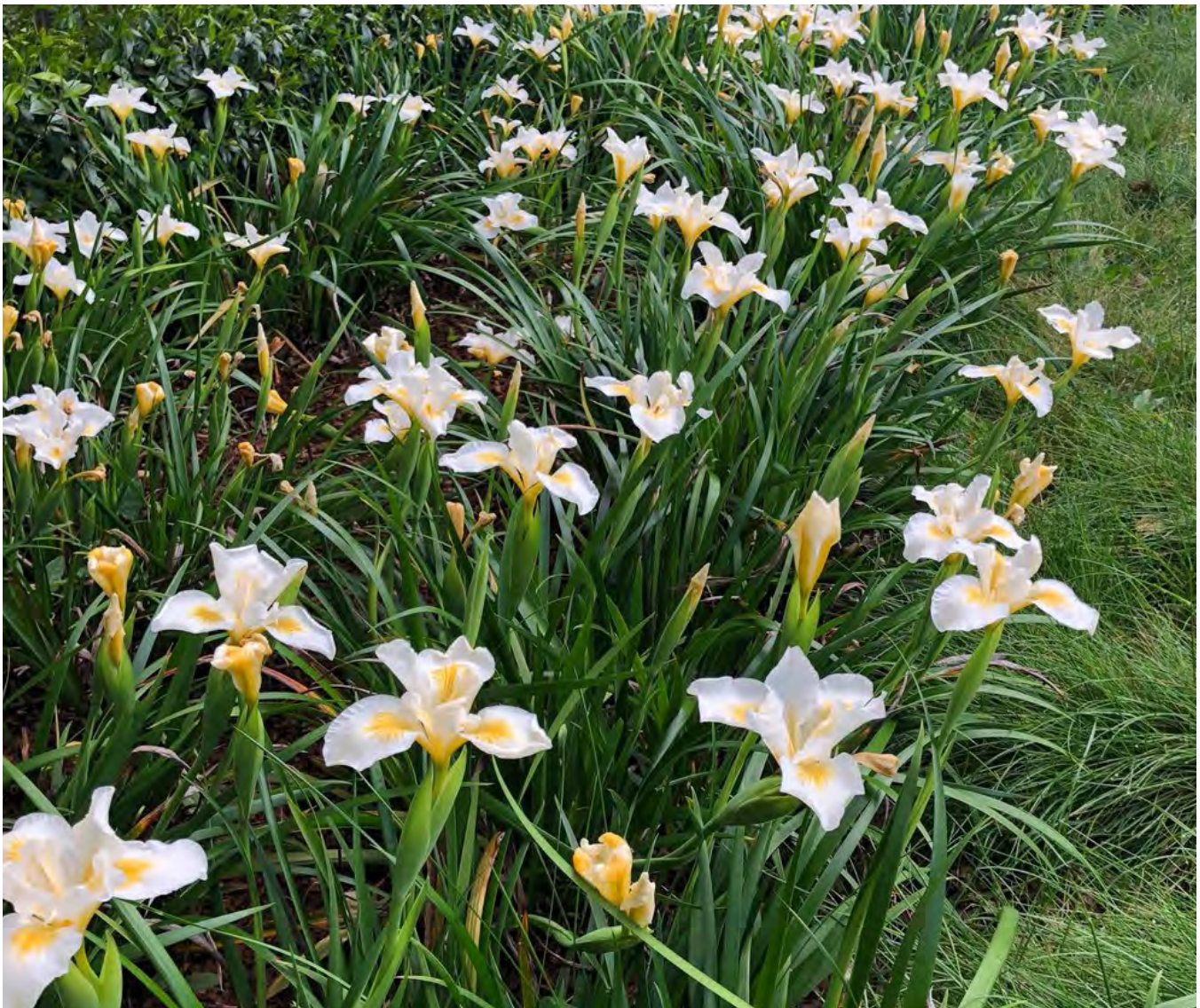


HETEROMELES ARBUTIFOLIA | Toyon



MORELLA CALIFORNICA | California Wax Myrtle

PERENNIALS



IRIS DOUGLASIANA | Douglas Iris



MONARDELLA VILLOSA | Coyote Mint



FRAGERIA VESCA | Woodland Strawberry



POLYSTICHUM MUNITUM | Western Swordfern

UPPER RIPARIAN PLANTING

LAGUNA CREEK RESTORATION

LANDSCAPE IMAGES

CITY OF MORAGA

DATE: APRIL 2021

SCALE: AS SHOWN

BKF JOB NO. 201226

SHEET NO. 14 OF 16

FILE NO. LI-04

Restoration Design Group, Inc.
2332 Hill Street, Suite C
Berkeley, CA 94710
T 510.642.2798 F 510.644.2799
www.restorationdesigngroup.com

RDG

OWNER: RDG | AS NO. REVIEWED: RDG | AS ES

DESIGNED: ES

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPROVED
1				
2				
3				
4				

30% CONSTRUCTION DOCUMENTS: 04/28/2021

FLOODPLAIN

SHRUBS & PERENNIALS

TREE SELECTIONS



POPULUS FREMONTII | Fremont's Cottonwood



BACCHARIS PILULARIS | Coyote Brush



QUERCUS AGRIFOLIA | Coast Live Oak



PHYSOCARPUS CAPITATA



RIBES SANGUINEUM | Red Flowering Currant



ACER MACROPHYLLUM | Bigleaf Maple



JUNCUS EFFUSUS | Soft Rush



FRANGULA CALIFORNICA



JUGLANS HINDSII | Northern California Walnut



SCROPHULARIA CALIFORNICA | California Bee Plant



SALVIA SPATHACEA | Hummingbird Sage



SAMBUCUS NIGRA VAR CAERULA| Blue Elderberry

REVISIONS			
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			

BENCHES



EXISTING BENCH



EXISTING BENCH

BENCHES AT THE NEW CREEK OVERLOOK WILL MATCH THE BACKED WOODEN BENCHES ALREADY ON THE HACIENDA PROPERTY AT OTHER PUBLIC ACCESS LOCATIONS.

IF THE CURRENT MODEL DOES NOT CONFORM TO CURRENT UNIVERSAL DESIGN RECOMMENDATIONS, A BENCH WHICH CLOSELY MATCHES THE AESTHETIC AND MATERIALS OF THE CURRENT BENCHES WILL BE SPECIFIED.

FENCING



EXISTING PAVILION GATE



EXISTING HACIENDA FENCE AND GATE

NEW WOODEN RAIL / FENCE ALONG THE TOP OF BANK AT THE CREEK OVERLOOK WILL BE DESIGNED TO BLEND IN WITH THE EXISTING FENCES AND GATES AT BOTH THE PAVILION AND THE REST OF THE HACIENDA PROPERTY.

A STRONG PREFERENCE HAS BEEN EXPRESSED FOR WOOD MATERIALS, AND RDG WILL PROVIDE DESIGN DETAILS IN THE 65% FOR REVIEW.



WOODEN RAIL - SIMILAR BUT LIGHTER FOR HACIENDA

TRAIL



EXISTING TRAIL


NEW TRAIL WILL BE STABILIZED ACCESSIBLE SURFACING, TO BE DETERMINED.

FINAL MATERIAL SELECTIONS WILL BE DETERMINED BY 65% SET DESIGN PHASE.



DECOMPOSED GRANITE TRAIL

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APP'D
1				
2				
3				
4				



Restoration Design Group, Inc.
2332 Fifth Street, Suite C
Berkeley, CA 94710
T 510.642.2798 F 510.644.2799
www.restorationdesigngroup.com

OWNER: RDG / AS NO. PREPARED: RDG / AS ES

DESIGNED: DATE: APPROVED: DATE: