

LIVERMORE AREA RECREATION AND PARK DISTRICT

FACILITIES COMMITTEE

AGENDA

**THURSDAY, MARCH 28, 2019
4:00 P.M.**

Robert Livermore Community Center
4444 East Avenue, Livermore, CA 94550-5053
West Wing Conference Room

COMMITTEE CHAIR: PIERPONT

COMMITTEE MEMBER: WILSON

1. Call to Order
2. Public Comment
3. Review of Sunset Park Playground 75% Construction Documentation
4. Current Projects Under Construction – Update
5. Matters Initiated
 - a. The effects of water releases through Sycamore Grove Park and the arroyos; [Pierpont]
 - i. the condition of trails, paths and access points and any action planned or needed;
 - ii. any issues resulting from related park closures
6. Adjournment

Livermore Area Recreation and Park District

Staff Report

TO: Chair Pierpont and Facilities Committee

FROM: Mathew Fuzie, General Manager

PREPARED BY: Patricia Lord, Assistant General Manager

DATE: March 28, 2019

SUBJECT: Review of Sunset Park Playground 75% Construction Documentation

RECOMMENDATION: That the Facilities Committee review the 75% construction documentation for Sunset Park Playground Project No.719.

BACKGROUND: On December 12, 2018, the Board of Directors approved the conceptual plan for Sunset Park Playground and authorized the General Manager to develop plans and specifications within the original authorized budget of \$1.2M. RRM Design team has developed 75% construction documents with proposed furnishings, site amenities and outline specifications for review. Please see attachments.

FINANCIAL SUMMARY: The District's 2018-21 CIP budget, approved in August 2018, includes \$1.2 M for Project No. 719. The Plans and Specifications will be developed within the authorized budget.

Attachments

- A. RRM Design Group Construction Documents for Sunset Park Playground
- B. Site Furnishing Images
- C. Outline of Site Equipment and Materials



LIVERMORE AREA RECREATION & PARK DISTRICT

SUNSET PARK PLAYGROUND

1055 GENEVA STREET, LIVERMORE, CA 94550



rrmdesign.com | (510) 751-4910
123 Estudillo, Ste. 200, San Leandro, CA 94577



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SUNSET PARK PLAYGROUND

1055 Geneva Street, Livermore, CA 94550

TITLE SHEET

NO.	REVISION	DATE
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△		
△		

PROJECT MANAGER

JULIAN SIMEONI

DRAWN BY

XX

CHECKED BY

XX

DATE

FEBRUARY 26, 2019

PROJECT NUMBER

1317-01-RC18

SHEET

G001

PROJECT DIRECTORY

OWNER
Livermore Area Recreation & Parks District
4444 East Avenue
Livermore, CA 94550
Patricia Lord
Phone: (925) 373-5700

LANDSCAPE ARCHITECT
RRM Design Group
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CONSULTANT
Company
Address #1
Address #2
Contact:
Phone: (xxx) xxx-xxxx
(xxx) xxx-xxxx

PROJECT DESCRIPTION

- THE PROJECT GENERALLY CONSISTS OF DEMOLITION OF EXISTING HARDSCAPE, TREES, SUBGRADE, LANDSCAPE STRUCTURES AND LANDSCAPE PLANTERS TO MAKE ROOM FOR NEW IMPROVEMENTS.
- NEW IMPROVEMENTS WILL GENERALLY INCLUDE DECORATIVE CONCRETE FLATWORK, LOW SITE WALLS, LIGHTING, LANDSCAPING, RAMPS, STAIRS, AND STORM DRAIN IMPROVEMENTS.

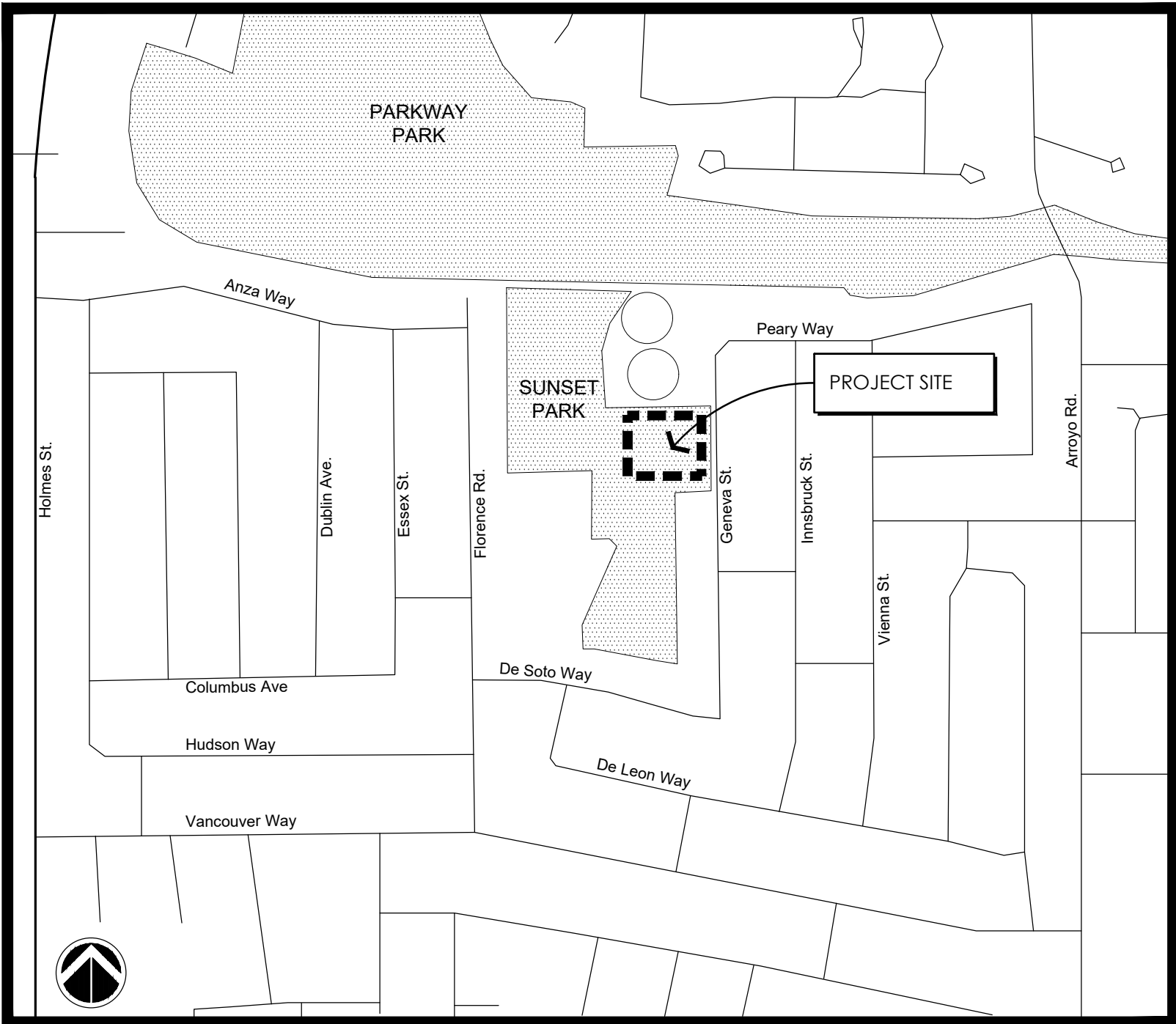
CODES

- ALL CONSTRUCTION SHALL CONFORM TO THE 2018 CALIFORNIA BUILDING, FIRE, MECHANICAL, PLUMBING, ELECTRICAL, ENERGY CODE, CALIFORNIA EXISTING BUILDING CODE AND GREEN BUILDING CODE.

DIG ALERT
DIAL TOLL FREE



AT LEAST 2 DAYS
BEFORE YOU DIG



LOCATION MAP

NOT TO SCALE

BID ALTERNATES

ALT #	TITLE	DESCRIPTION	DETAIL REFERENCE
1	ALTERNATE TITLE	SOUTH SHADE SHELTER/CONCRETE PAD, PICNIC TABLE, AND ASSOCIATED SITE WORK EXCLUDED.	LC101
2	ALTERNATE TITLE	DESCRIPTION OF ALTERNATE	X/XX.XXX
3	ALTERNATE TITLE	DESCRIPTION OF ALTERNATE	X/XX.XXX

SHEET INDEX

G001	TITLE SHEET
G002	GENERAL NOTES AND ABBREVIATIONS
V101	EXISTING CONDITIONS
TP101	TREE PROTECTION PLAN
DM001	DEMOLITION NOTES
DM101	DEMOLITION PLAN
CE101	STORM WATER MANAGEMENT AND EROSION CONTROL PLAN
CE501	STORMWATER MANAGEMENT AND EROSION CONTROL DETAILS
CE502	STORMWATER MANAGEMENT AND EROSION CONTROL DETAILS
CG001	GRADING NOTES
CG101	GRADING PLAN
CH101	LAYOUT PLAN
LC001	CONSTRUCTION NOTES AND LEGEND
LC101	CONSTRUCTION PLAN
LC501	CONSTRUCTION DETAILS
LC502	CONSTRUCTION DETAILS

APPROVALS

TITLE	NAME
TITLE	NAME
TITLE	NAME

75% CONSTRUCTION DOCUMENTS

ABBREVIATIONS

AB	AGGREGATE BASE OR ANCHOR BOLT	LH	LEFT HAND
ABV	ABOVE	LOC	LOCATION
AC	ASPHALTIC CONCRETE	LP	LOW POINT
ACP	ASPHALTIC CONCRETE PAVING	LS	LAG SCREW
ADJ	ADJACENT	LT	LEFT
AGG	AGGREGATE	MAS	MASONRY
ALT	ALTERNATE	MATL	MATERIAL
AP	ANGLE POINT	MAX	MAXIMUM
APPROX	APPROXIMATE	MED	MEDIUM
ARCH	ARCHITECT (URAL)	MFG	MANUFACTURING
BEL	BELOW	MFR	MANUFACTURE(R)
BLDG	BUILDING	MIN	MINIMUM
BLK	BLOCK	MISC	MISCELLANEOUS
BOT	BOTTOM	ML	MAINLINE
BOW	BACK OF WALK	(N)	NEW
BR	BOTTOM OF RAMP	NIC	NOT IN CONTRACT
BRG	BEARING	NO	NUMBER
CB	CATCH BASIN	NOM	NOMINAL
CF	CUBIC FOOT	NTS	NOT TO SCALE
CI	CAST IRON	OC	ON CENTER
CIP	CAST IN PLACE	OCEW	ON CENTER EACH WAY
C/L	CENTERLINE	OD	OUTSIDE DIAMETER
CL	CENTERLINE	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
CLR	CLEAR	OH	OVERHEAD
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
CO	CLEAN OUT	OPT	OPTIONAL
COL	COLUMN	PA	PLANTER AREA
CONC	CONCRETE	PC	POINT OF CURVE
CONST	CONSTRUCTION	PERF	PERFORATE (D)
CONT	CONTINUOUS, CONTINUE	PERP	PERPENDICULAR
CP	CENTER POINT	PFE	PUBLIC FACILITIES EASEMENT
CR	CURB RETURN	PL	PROPERTY LINE
CTC	CENTER TO CENTER	POB	POINT OF BEGINNING
CTR	CENTER	POC	POINT OF CONNECTION
DAS	DIRECTION AS SHOWN	PRC	POINT OF REVERSE CURVE
DET	DETAIL	PROP	PROPOSED
DF	DRINKING FOUNTAIN	PSI	POUNDS PER SQUARE INCH
DI	DRAIN INLET	PT	POINT, POINT OF TANGENCY
DIA	DIAMETER	PTDF	PRESSURE TREATED DOUGLAS FIR
DIAG	DIAGONAL	PTL	PRESSURE TREATED LUMBER
DIM	DIMENSION	PUE	PUBLIC UTILITIES EASEMENT
DS	DOWN SPOUT	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	R, RAD	RADIUS
EA	EACH	RDWD	REDWOOD
EJ	EXPANSION JOINT	REBAR	REINFORCING BAR
ELECT	ELECTRICAL	REF	REFERENCE
ELEV	ELEVATION	REM	REMOVE
ENCL	ENCLOSURE	REQ'D	REQUIRED
EQ	EQUAL	REV	REVISION(S), REVISED
EQPT	EQUIPMENT	RH	RIGHT HAND
ESMT	EASEMENT	ROW	RIGHT OF WAY
EWF	ENGINEERED WOOD FIBER	RT	RIGHT
EX	EXISTING	S	SLOPE
EXIST	EXISTING	SCH	SCHEDULE
(E)	EXISTING	SD	STORM DRAIN
FAB	FABRICATION	SF	SQUARE FEET
FBO	FURNISHED BY OTHERS	SHT	SHEET
FF	FINISHED FLOOR	SIM	SIMILAR
FFE	FINISHED FLOOR ELEVATION	SL	SLOPE
FG	FINISHED GRADE	SPEC	SPECIFICATION(S)
FIN	FINISH (ED)	SQ	SQUARE
FL	FLOWLINE	SS	SANITARY SEWER
FOC	FACE OF CONCRETE	S/S	STAINLESS STEEL
FOF	FACE OF FINISH	ST	STREET
FOM	FACE OF MASONRY	STA	STATION
FOS	FACE OF STEP	STD	STANDARD
FND	FOUNDATION	STL	STEEL
FS	FINISHED SURFACE	STRUC	STRUCTURE/ STRUCTURAL
FST	FINISHED SURFACE TURF	SURF	SURFACE
FTG	FOOTING	SWCL	SIDEWALK CENTERLINE
FUT	FUTURE	SYS	SYSTEM
GA	GAGE, GAUGE	SYN	SYNTHETIC
GB	GRADE BREAK	TBC	TOP BACK OF CURB
GKT	GASKET	TC	TOP OF CURB
GLV	GALVANIZED	TF	TOP OF FOOTING
GPH	GALLONS PER HOUR	TP	TANGENT POINT
GPM	GALLONS PER MINUTE	TR	TOP OF RAMP
GR	GRATE	TS	TOP OF STEP
HB	HOSE BIB	TW	TOP OF WALL
HC	HANDICAPPED	TYP	TYPICAL
HCAP	HANDICAPPED	UON	UNLESS OTHERWISE NOTED
HDB	HEADBOARD	VAR	VARIES
HEX	HEXAGONAL	V.I.F.	VERIFY IN FIELD
HOR	HORIZONTAL	VERT	VERTICAL
HP	HIGH POINT	W	WATER
HT	HEIGHT	W/	WITH
ID	INSIDE DIAMETER	W/O	WITHOUT
INT	INTERSECTION	@	AT
INV	INVERT	¢	CENTERLINE
JT	JOINT	Ø	DIAMETER
L	LENGTH	SF	SQUARE FEET
LB	LAG BOLT		

GENERAL CONSTRUCTION NOTES

1.

PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN CONDITIONS FOR GRADING, DRAINAGE, AND UNDERGROUND FACILITIES, INCLUDING LOCATION AND ELEVATION OF EXISTING FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED AND RESOLVED.
2.

THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY AND RECEIVE DIRECTION FROM THE DISTRICT BEFORE PROCEEDING WITH THE WORK IN QUESTION.
3.

ONLY "APPROVED" STAMPED AND SIGNED DRAWINGS SHALL BE USED FOR THE CONSTRUCTION OF THIS PROJECT.
4.

NO CHANGES OR MODIFICATIONS TO THE PLANS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DISTRICT.
5.

CONSULT WITH WITH THE DISTRICT'S ARBORIST PRIOR TO PRUNING OR WORKING WITHIN THE DRIPLINE OF ANY TREE. ALL PRUNING OF TREES SHALL BE KEPT TO A MINIMUM AND MUST FOLLOW CITY OF LIVERMORE STANDARDS.
6.

NO TREES, OTHER THAN THOSE INDICATED ON THE DRAWINGS, SHALL BE REMOVED WITHOUT PRIOR APPROVAL OF THE DISTRICT.
7.

NO MATERIALS OR EQUIPMENT SHALL BE STORED WITHIN THE DRIPLINE OF ANY TREE.
8.

ALL NUMERIC AND WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER ALL SCALE DIMENSIONS.
9.

DETAILS AND NOTES ON THE DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS AND GENERAL NOTES.
10.

WRITTEN SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS.
11.

ALL CONSTRUCTION SHALL CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS. IN THE ABSENCE OF A SPECIFIED STANDARD OR SPECIFICATION, WORK SHALL CONFORM TO THE CURRENT CITY OF LIVERMORE STANDARDS. IF NONE EXISTS, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), SHALL APPLY.
12.

ALL WORK SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED IN THE PROJECT SOILS ENGINEERING REPORT PROVIDED.
13.

CONTRACTOR SHALL TAKE ALL CARE TO PREVENT DISRUPTION OF PROJECT SITE IN AREAS OUTSIDE CONSTRUCTION ZONE.
14.

THE CONTRACTOR SHALL NOTIFY THE DISTRICT AT LEAST 48 HOURS BEFORE COMMENCING WORK.
15.

PROPOSED DEVIATIONS FROM THE PLANS MUST BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL, INCLUDING FIELD REVISIONS REQUESTED BY THE DISTRICT INSPECTOR.
16.

THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT HIS OPERATIONS FROM PRODUCING DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED OR NATIVE VEGETATION, AND DOMESTIC AND NON-DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM HIS OPERATIONS.
17.

CONSTRUCTION LINE AND GRADE STAKES SHALL BE SET BY A CIVIL ENGINEER OR SURVEYOR LICENSED IN THE STATE OF CALIFORNIA.
18.

CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OR PROPER RESETTING OF ALL EXISTING MONUMENTS AND OTHER SURVEY

MARKERS. ANY SURVEY MONUMENTS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED IN ACCORDANCE WITH THE STATE LAND SURVEYORS ACT AT THE CONTRACTOR'S EXPENSE.

19.

ALL PROTECTIVE DEVICES TO BE INSTALLED BY THE CONTRACTOR, SHALL BE IN PLACE AT THE END OF EACH WORK DAY. A SAFE PEDESTRIAN PATH OF TRAVEL SHALL BE PROVIDED AT ALL TIMES TO AND FROM BUILDING ENTRANCES TO PARKING FACILITIES. COORDINATE PEDESTRIAN WALK CLOSURES WITH OWNER PRIOR TO CONSTRUCTION.
20.

CONTRACTOR SHALL REFER TO MATERIALS SPECIFICATIONS THROUGHOUT THE APPROVED PLAN SET AND SPECIFICATIONS. ANY SUBSTITUTIONS OF THE MATERIALS SPECIFIED IN THESE DOCUMENTS SHALL REQUIRE WRITTEN APPROVAL FROM THE DISTRICT.
21.

DURING THE COURSE OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING THE CITY OF LIVERMORE FOR TESTING AND INSPECTION 24 HOURS IN ADVANCE. WORK NOT PROPERLY TESTED AND INSPECTED WILL BE SUBJECT TO REJECTION.
22.

WORK IN AND ALONG PUBLIC STREETS AND PARKING LOTS, ONCE BEGUN, SHALL PROCEED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO THE PUBLIC.
23.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. ALL UTILITIES SHALL BE PROTECTED AND REPAIRED BY THE CONTRACTOR IF DAMAGED.
24.

CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL UTILITY COMPANIES 48 HOURS PRIOR TO THE BEGINNING OF WORK. BRING ANY CONFLICTS WITH NEW IMPROVEMENTS IMMEDIATELY TO THE ATTENTION OF THE DISTRICT.
25.

NOTIFY UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 811 A MINIMUM OF FORTY-EIGHT WORKING HOURS PRIOR TO THE START OF CONSTRUCTION.
26.

CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR LOCATING OR HAVING LOCATED ALL UNDERGROUND UTILITIES AND RELATED FACILITIES AND FOR PROTECTING SAME DURING THE COURSE OF CONSTRUCTION. ALL UTILITIES THAT ARE NOT A MEMBER OF USA MUST ALSO BE NOTIFIED.
27.

ENTRANCE TO THE SITE AND LAY DOWN AREA DURING CONSTRUCTION SHALL BE SPECIFIED BY THE DISTRICT.
28.

CONTRACTOR SHALL PROVIDE DE-WATERING IF IT IS REQUIRED, COMPLY WITH ALL REQUIREMENTS OF THE REGIONAL WATER QUALITY CONTROL BOARD AND OTHER APPLICABLE AGENCIES.
29.

CONTRACTOR SHALL PROVIDE A LEGIBLE AND COMPLETE SET OF PLANS IDENTIFYING ALL MODIFICATIONS MADE DURING CONSTRUCTION TO THE DISTRICT FOR THE PREPARATION OF RECORD DRAWINGS.
30.

ALL CONSTRUCTION SHALL CONFORM TO LATEST EDITION OF CALIFORNIA BUILDING CODE TITLE 24.
31.

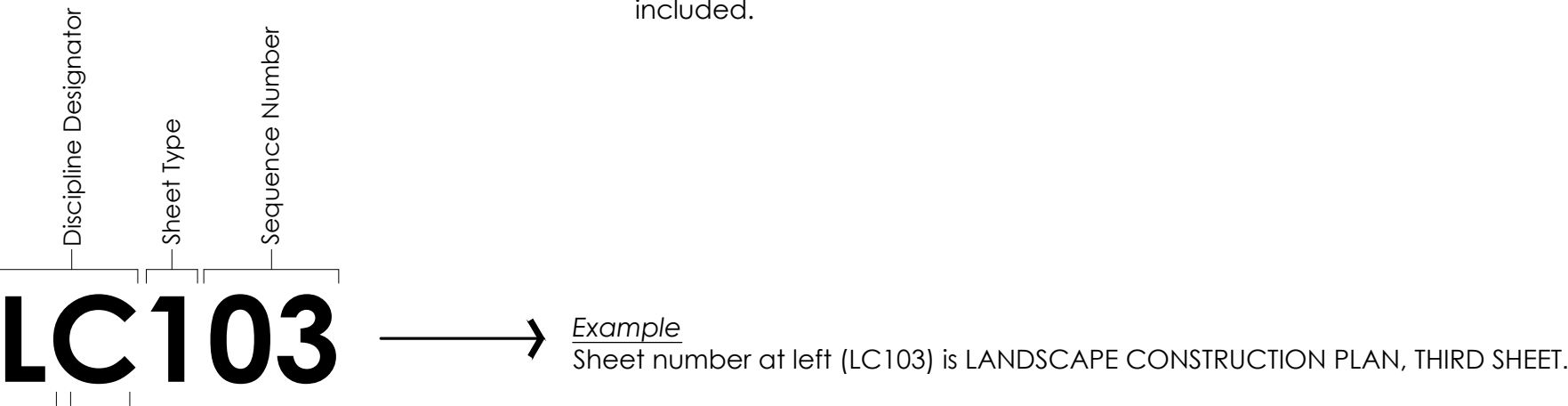
ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO MONDAY THROUGH FRIDAY OF THE CALENDAR WEEK. NO WEEKEND WORK SHALL BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.

KEY TO SHEET NUMBERING

DRAWING SHEET NUMBERING AND ORGANIZATION IS ADAPTED FROM THE UNITED STATES NATIONAL CAD STANDARD.

DISCIPLINE DESIGNATORS - LEVEL 1 (Partial List)		DISCIPLINE DESIGNATORS - LEVEL 2 (Partial List)		SHEET TYPES	
G	General	D	Demolition	0	General: Symbol legend, abbreviations, general notes.
R	Resource (Existing Conditions)	S	Site	1	Plans
H	Hazardous Materials	G	Grading	2	Elevations
V	Survey/Mapping	E	Erosion Control	3	Sections
B	Geotechnical	U	Utilities	4	Large Scale Drawings: plans, elevations, sections (not details)
C	Civil	C	Construction	5	Details
L	Landscape	I	Irrigation	6	Schedules and Diagrams
S	Structural	P	Planting	7	User Defined
A	Architectural	L	Lighting	8	User Defined
E	Electrical	W	Stormwater	9	3D Drawings: isometric, perspective, photos
Z	Contractor/Shop Drawings	H	Horizontal Control		

Dash is substituted when Level 2 is not included.



TYPICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DETAIL CALLOUT, WHERE 'X' = DETAIL NUMBER, AND 'Y' = PAGE NUMBER
	SECTION CALLOUT, WHERE 'X' = SECTION NUMBER AND 'Y' = PAGE NUMBER
	ELEVATION CALLOUT, WHERE 'X' = ELEVATION NUMBER AND 'Y' = PAGE NUMBER
	REFERENCE NOTE CALLOUT
	BREAKLINE
	CENTERLINE
	CONSTRUCTION OR COLD JOINT
	EXPANSION JOINT
	FLUSH SURFACES
	SAWCUT LINE. JOIN EXISTING PAVING
	LIMIT OF WORK LINE
	PROPERTY LINE
	EXISTING TREE. PROTECT IN PLACE.
	PLANTING AREA

NOTE: DISCIPLINE-SPECIFIC SYMBOLS ARE SHOWN ON THEIR RESPECTIVE SHEETS.



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SUNSET PARK PLAYGROUND

1055 Geneva Street, Livermore, CA 94550

GENERAL CONSTRUCTION NOTES

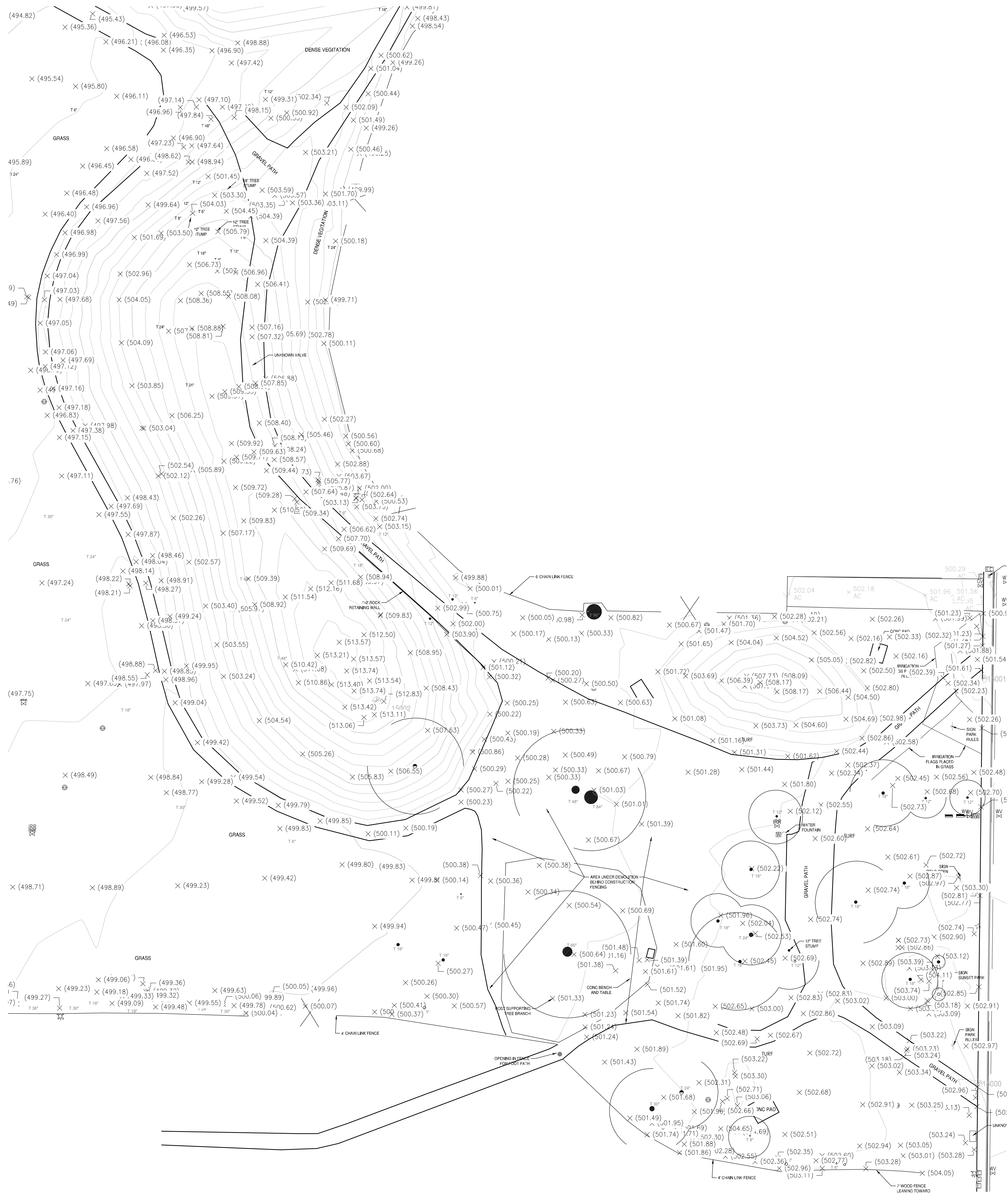
AND ABBREVIATIONS

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PROJECT MANAGER	
JULIAN SIMEONI	
DRAWN BY	CHECKED BY
XX	XX
DATE	
FEBRUARY 26, 2019	
PROJECT NUMBER	
1317-01-RC18	
SHEET	

G002

N:\100\1317-01-RC18-Sunset Park Playground\Planning\Task 6 Con.Docs\AutoCAD\DWG\1317-01-RC18.dwg, V101, Mar 15, 2019 12:20pm, jlmason



ABBREVIATIONS

AC	ASPHALT CONCRETE
BA	BRIDGE ABUTMENT
BC	BEGINNING OF CURVE
BM	BENCH MARK
BO	BACK OF CURB
BOW	BACK OF WALK
C or CONC.	CONCRETE
COL	COLUMN
EC	END OF CURVE
ELEV.	ELEVATION
EP	EDGE OF PAVEMENT
FH	FIRE HYDRANT
FL	FLOW LINE
FM	METAL FENCE
GB	GRADE BREAK
GRDR	GUARDRAIL
HP	HINGE POINT
INV.	INVERT
IRR	IRRIGATION
MH	MANHOLE
PP	POWER POLE
P or PMT	PAVEMENT
SW	SEWER
S or SS	SANITARY SEWER
SD	STORM DRAIN
SP	STANDPIPE
TC	TOP OF CURB
TOE	TOE OF SLOPE
W	WATER
WV	WATER VALVE

UTILITY NOTES:

PHYSICAL ITEMS SHOWN ON THIS SURVEY ARE LIMITED TO THOSE SURFACE ITEMS VISIBLE AS OF THE DATE OF THIS SURVEY. SUBSURFACE OBJECTS, IF ANY, ARE NOT SHOWN. NO WARRANTY IS IMPLIED AS TO THE EXACT LOCATION OF THESE LINES OR AS TO THE COMPLETENESS OF THE UTILITY INFORMATION SHOWN HEREON. SAID SUBSURFACE OBJECTS MAY INCLUDE, BUT ARE NOT LIMITED TO, CONCRETE FOOTINGS, SLABS, SHORING, STRUCTURAL PILES, UTILITY VAULTS, PIPING, UNDERGROUND TANKS, UNDERGROUND UTILITY LINES, TELECOMMUNICATION LINES, FIBER OPTIC LINES AND ANY OTHER SUBSURFACE STRUCTURES OR FACILITIES NOT REVEALED BY A SURFACE INSPECTION ON THE DATE THAT THE FIELD WORK FOR THIS SURVEY WAS PERFORMED: OCTOBER 31, 2017.



CONTROL POINT TABLE			
POINT NUMBER	NORTHING	EASTING	DESCRIPTION
15000	2068863.72	6193372.57	SET SCRIBED X
15001	2069081.37	6193375.17	SET SCRIBED X
15002	2069069.54	6193049.09	SET 5/8" RBR

LEGEND

HARDSCAPE LINES	
BACKFLOW PREVENTOR	BACK OF CURB
BENCHMARK/CONTROL PT	FACE OF CURB
BOLLARD	FLOWLINE
CATCH BASIN	LIP OF GUTTER
	SIDEWALK
MISCELLANEOUS LINES	
CONTOUR	FENCE, CHAIN-LINK OR BARB WIRE
CURB	FENCE, METAL (HEIGHT NOTED)
DRAIN INLET	FENCE, WOOD (HEIGHT NOTED)
ELECTRIC MANHOLE	
ELECTRIC METER/BOX	
ELECTRODER	
ELEVATION W/ DESCRIPTION	IRRIGATION LINE
NATURAL GROUND SHOT	
FIRE DEPARTMENT CONNECTION	
FIRE HYDRANT	
GAS METER/BOX	
GAS VALVE	
IRRIGATION VALVE	
MANHOLE	
SANITARY SEWER MANHOLE	
SIGN	
SPRINKLER	
STORM DRAIN MANHOLE	
STREET/SITE LIGHT PULL BOX	
TELECOMMUNICATIONS BOX	
TELECOMMUNICATIONS MANHOLE	
TREES (TRUNK 6")	
WALL (HEIGHT/TYPE NOTED)	
WATER METER/BOX	
WATER VALVE	

SURVEY CONTROL:

VERTICAL DATUM
ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

SITE BENCHMARK
SET SCRIBED X IN SIDEWALK (PT #15001), 36 FEET SOUTH FROM THE NORTH EAST CORNER OF THE PROPERTY AT BACK OF SIDEWALK, 30 FEET NORTH EAST OF SIGN (PARK RULES), 5 FEET SOUTH ALONG SIDEWALK FROM NORTHERLY GRAVEL PATH. ELEVATION = 501.82 FEET (NAVD88)

HORIZONTAL DATUM
COORDINATES ARE GROUND AND BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE III.



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NOTE: TREES TO BE REMOVED BY LARPD. TO BE EXCLUDED FROM PERMIT AND BID DRAWINGS

TREE PROTECTION LEGEND

SYMBOL	TYPE	DESCRIPTION
	FENCING	TREE PROTECTION FENCING
	TREE TO BE REMOVED	REMOVE TREE AND STUMP. CHIP AND STOCKPILE ONSITE FOR USE AS MULCH PER PLANTING PLAN. SIZE AS NOTED.
	TREE TO REMAIN	PROTECT IN PLACE. SIZE AS NOTED.

TREE PROTECTION NOTES

TO MINIMIZE INJURIES TO TREES DURING CONSTRUCTION, GRADING OPERATIONS ENCROACH NO CLOSER THAN FIVE TIMES THE TRUNK DIAMETER, (I.E. 18" DIAMETER TREE X 5=90" DISTANCE). AT THIS DISTANCE, BUTTRESS/ANCHORING ROOTS WOULD BE PRESERVED AND MINIMAL INJURY TO THE FUNCTIONAL ROOT AREA WOULD BE ANTICIPATED. SHOULD ENCROACHMENT WITHIN THE AREA BECOME NECESSARY, HAND DIGGING IS MANDATORY.

QUERCUS - TREE # 01
WORK WITHIN 19' OF THE OAK TREE TO BE RETAINED WITHIN THE PLAYGROUND AREA, IS TO BE KEPT TO A MINIMUM AND SHALL BE BARRICADED OFF.

QUERCUS - TREE # 02
THE OWNER (LARPD) IS TO PROVIDE TREE PROTECTION FENCING FOR THIS TREE, WHICH WILL IS OUTSIDE THE LIMIT OF WORK.

BARRICADES/PROTECTION FENCING
PRIOR TO INITIATION OF CONSTRUCTION ACTIVITY, TEMPORARY BARRICADES SHOULD BE INSTALLED AROUND ALL TREES IN THE CONSTRUCTION AREA. SIX-FOOT HIGH, CHAIN LINK FENCES ARE TO BE MOUNTED ON STEEL POSTS, DRIVEN 2 FEET INTO THE GROUND, AT NO MORE THAN 10-FOOT SPACING. THE FENCES SHALL ENCLOSE THE ENTIRE AREA UNDER THE DRIP LINE OF THE TREES OR AS CLOSE TO THE DRIP LINE AREA AS PRACTICAL. THESE BARRICADES WILL BE PLACED AROUND INDIVIDUAL TREES AND/OR GROUPS OF TREES AS THE EXISTING ENVIRONMENT DICTATES.

THE TEMPORARY BARRICADES WILL SERVE TO PROTECT TRUNKS, ROOTS AND BRANCHES FROM MECHANICAL INJURIES. WILL INHIBIT STOCKPILING OF CONSTRUCTION MATERIALS OR DEBRIS WITHIN THE SENSITIVE 'DRIP LINE' AREAS AND WILL PREVENT SOIL COMPACTION FROM INCREASED VEHICULAR/PEDESTRIAN TRAFFIC. NO STORAGE OF MATERIAL, TOPSOIL, VEHICLES OR EQUIPMENT SHALL BE PERMITTED WITHIN THE TREE ENCLOSURE AREA. THE GROUND AROUND THE TREE CANOPY SHALL NOT BE ALTERED. THESE BARRICADES SHOULD REMAIN IN PLACE UNTIL FINAL INSPECTION OF THE BUILDING PERMIT, EXCEPT FOR WORK SPECIFICALLY REQUIRED IN THE APPROVED PLANS TO BE DONE UNDER THE TREES TO BE PROTECTED. DESIGNATED AREAS BEYOND THE DRIP LINES OF ANY TREES SHOULD BE PROVIDED FOR CONSTRUCTION MATERIALS AND ONSITE PARKING.

ROOT PRUNING (IF NECESSARY)
DURING AND UPON COMPLETION OF ANY TRENCHING/GRADING OPERATION WITHIN A TREE'S DRIP LINE, SHOULD ANY ROOTS GREATER THAN ONE INCH (1") IN DIAMETER BE DAMAGED, BROKEN OR SEVERED, ROOT PRUNING TO INCLUDE FLUSH CUTTING AND SEALING OF EXPOSED ROOTS SHOULD BE ACCOMPLISHED UNDER THE SUPERVISION OF A QUALIFIED ARBORIST TO MINIMIZE ROOT DETERIORATION BEYOND THE SOIL LINE WITHIN TWENTY-FOUR (24) HOURS.

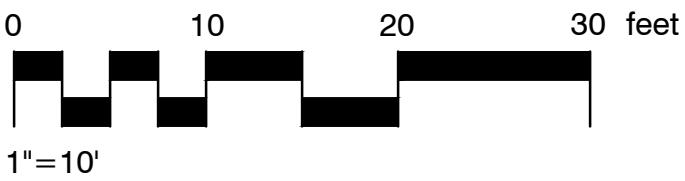
PRUNING
PRUNING OF THE FOLIAR CANOPIES TO INCLUDE REMOVAL OF DEADWOOD IS RECOMMENDED AND SHOULD BE INITIATED PRIOR TO CONSTRUCTION OPERATIONS. SUCH PRUNING WILL PROVIDE ANY NECESSARY CONSTRUCTION CLEARANCE. WILL LESSEN THE LIKELIHOOD OR POTENTIAL FOR LIMB BREAKAGE, REDUCE 'WINDSAIL' EFFECT AND PROVIDE AN ENVIRONMENT SUITABLE FOR HEALTHY AND VIGOROUS GROWTH.

FERTILIZATION
A PROGRAM OF FERTILIZATION BY MEANS OF DEEP ROOT SOIL INJECTION IS RECOMMENDED WITH APPLICATIONS IN SPRING AND SUMMER FOR THOSE TREES TO BE IMPACTED BY CONSTRUCTION.

SUCH FERTILIZATION WILL SERVE TO STIMULATE FEEDER ROOT DEVELOPMENT, OFFSET SHOCK/STRESS AS RELATED TO CONSTRUCTION AND/OR ENVIRONMENTAL FACTORS, ENCOURAGE VIGOR, ALLEVIATE SOIL COMPACTION AND COMPENSATE FOR ANY ENCROACHMENT OF NATURAL FEEDING ROOT AREAS.

INCEPTION OF THIS FERTILIZING PROGRAM IS RECOMMENDED PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITY.

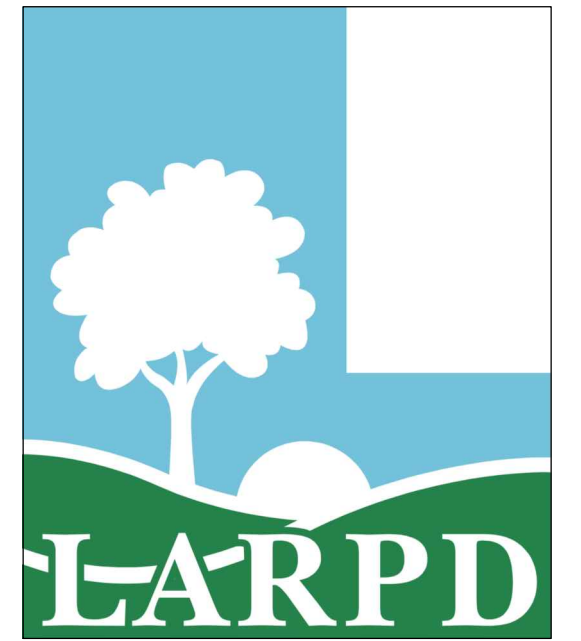
MULCH
MULCHING WITH WOOD CHIPS (MAXIMUM DEPTH 3") WITHIN TREE ENVIRONMENTS (OUTER FOLIAR PERIMETER) WILL LESSEN MOISTURE EVAPORATION FROM SOIL, PROTECT AND ENCOURAGE ADVENTITIOUS ROOTS AND MINIMIZE POSSIBLE SOIL COMPACTION.



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SUNSET PARK PLAYGROUND

1055 Geneva Street, Livermore, CA 94550

TREE PROTECTION PLAN

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PROJECT MANAGER JULIAN SIMEONI	
DRAWN BY XX	CHECKED BY XX
DATE FEBRUARY 26, 2019	
PROJECT NUMBER 1317-01-RC18	
SHEET	

TP101

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DEMOLITION NOTES

- A. THIS DEMOLITION PLAN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR, THE ARCHITECT AND THE ENGINEER DO NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION AND REMOVAL HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND DETERMINE AND EXECUTE ALL DEMOLITIONS AND REMOVALS NECESSARY FOR THE CONSTRUCTION OF THE NEW WORK TO THE SPECIFIED LINES, GRADES, AND CONFIGURATIONS.
- B. DEMOLITION WORK AND ABANDONMENT SHALL CONFORM TO THE UNIFORM BUILDING CODE, TITLE 24, AND ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER OF RECORD.
- C. ALL DEMOLITION WORK SHALL CONFORM TO THE SPECIFICATIONS FOR THIS PROJECT, AND THE RECOMMENDATIONS IN THE GEOTECHNICAL ENGINEERING REPORT FOR THIS PROJECT.
- D. NO DEMOLITION SHALL BE STARTED WITHOUT APPROVED PLANS. THE DISTRICT SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO STARTING DEMOLITION.
- E. THE PLANS DO NOT AUTHORIZE SITE DISTURBANCE BEYOND THE LIMIT OF WORK LINE AS REPRESENTED ON THE PLANS UNLESS OTHERWISE NOTED.
- F. ALL ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE DISTRICT.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER STORAGE AND TRANSPORTATION OF ANY ITEMS TO BE RELOCATED.
- H. THE CONTRACTOR SHALL SALVAGE AND DELIVER TO THE DISTRICT CORP YARD ANY ITEMS AT THE REQUEST OF THE OWNER AS NOTED AS 'TO BE SALVAGED' ON PLANS.
- I. ALL DEBRIS FROM THE DEMOLITION PROCESS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.
- J. ALL STREETS, ALLEYS, VEHICULAR WAYS, SIDEWALKS, AND HAUL ROUTES SHALL BE KEPT CLEAN AND CLEAR OF DEBRIS, DIRT AND DUST IN A MANNER ACCEPTABLE TO THE DISTRICT. AT A MINIMUM, THESE AREAS SHALL BE CLEANED AT THE END OF EACH WORK DAY. FAILURE TO DO SO WILL RESULT IN A "STOP WORK" NOTICE. SAID NOTICE WILL NOT BE RELEASED UNTIL THE AREA HAS BEEN CLEANED TO THE SATISFACTION OF THE DISTRICT. THE FLUSHING OF DIRT OR DEBRIS INTO STORM DRAIN OR SANITARY SEWER FACILITIES SHALL NOT BE PERMITTED.
- K. ALL ABANDONED UTILITIES SHALL BE MARKED IN THE FIELD AND LOCATED ON THE DRAWINGS OF RECORD BY THE CONTRACTOR.
- L. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. EXISTING UTILITIES AND IMPROVEMENTS SHOWN ON THESE PLANS ARE FROM RECORD SOURCES AND SPOT CHECKS. UTILITIES ARE SHOWN FOR DESIGN PURPOSES ONLY.
- M. THE CONTRACTOR SHALL ONLY REMOVE THOSE UNDERGROUND FACILITIES SPECIFICALLY NOTED FOR REMOVAL. DAMAGE TO EXISTING FACILITIES TO REMAIN SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- N. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL UTILITY COMPANIES 48 HOURS PRIOR TO THE BEGINNING OF WORK. BRING ANY CONFLICTS WITH NEW IMPROVEMENTS IMMEDIATELY TO THE ATTENTION OF THE DISTRICT.
- O. NOTIFY UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 811 A MINIMUM OF 48 WORKING HOURS PRIOR TO THE START OF CONSTRUCTION.
- P. CONTRACTOR SHALL NOT INTERRUPT ANY SERVICES OR DISRUPT THE OPERATION OF ADJACENT BUSINESSES, RESIDENTIAL AREAS OR ONSITE FACILITIES OUTSIDE THE LIMIT OF WORK LINE.
- Q. CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT FROM THE CITY FOR WORK WITHIN CITY RIGHT OF WAY PRIOR TO THE START OF WORK.
- R. CONTRACTOR SHALL COMPLY WITH CITY'S CONSTRUCTION AND DEMOLITION RECYCLING DEBRIS REQUIREMENTS. CONTRACTOR SHALL COMPLETE "CONSTRUCTION & DEMOLITION DEBRIS RECYCLING STATEMENT" FORM PRIOR TO SUBMITTING FOR A FINAL INSPECTION.
- S. REMOVE ALL TREES AND GRIND TREE STUMPS INDICATED ON THE PLANS. REMOVE TREES, TOGETHER WITH THE BULK OF THE ROOTS, TO A MINIMUM DEPTH OF 24 INCHES BELOW EXISTING GRADE AND WITHIN A RADIUS OF 7 FEET BEYOND THE PERIMETER OF THE TRUNK AT GROUND LINE. CHIP AND STOCKPILE ON SITE FOR USE AS MULCH PER PLANTING PLAN.
- T. FILL AND COMPACT HOLES RESULTING FROM TREES AND TREE STUMP REMOVAL TO REQUIRED DENSITY. FILLING SHALL NOT BE DONE UNTIL HOLES HAVE BEEN APPROVED BY THE DISTRICT'S REPRESENTATIVE.
- U. CLEAR AND GRUB ALL UNDERSTORY VEGETATION UNLESS NOTED OTHERWISE.



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DEMOLITION NOTES

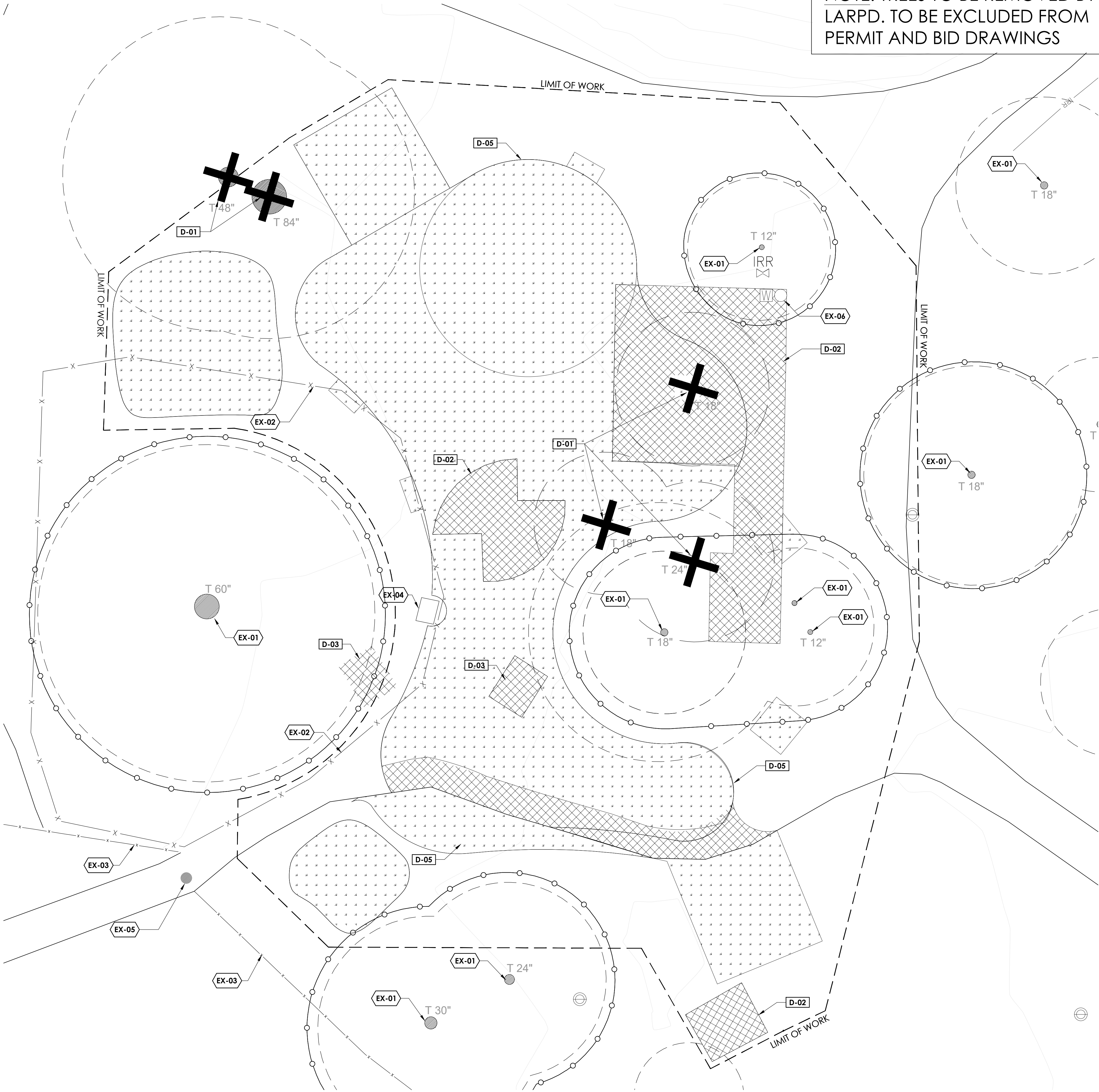
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PROJECT MANAGER	
JULIAN SIMEONI	
DRAWN BY	CHECKED BY
XX	XX
DATE	
FEBRUARY 26, 2019	
PROJECT NUMBER	
1317-01-RC18	
SHEET	

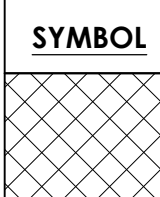

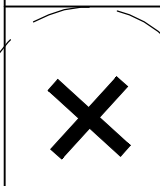

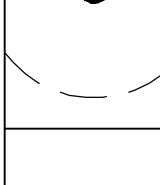
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NOTE: TREES TO BE REMOVED BY
LARPD. TO BE EXCLUDED FROM
PERMIT AND BID DRAWINGS



DEMOLITION LEGEND

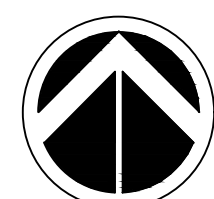
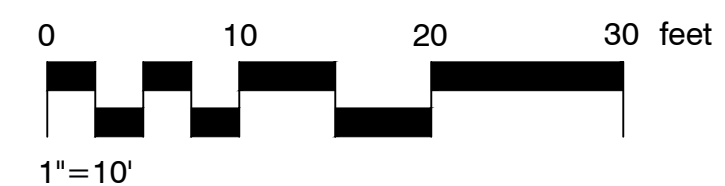
SYMBOL	TYPE	DESCRIPTION
	CONCRETE/ GRAVEL	REMOVE EXISTING PAVEMENT.
	CLEAR AND GRUB	EXISTING TURF, GROUND COVER, AND SHRUBS TO BE CLEARED, GRUBBED, AND REMOVED. ADJUST AND PROTECT ALL IRRIGATION PIPING, FITTINGS, HEADS, AND ASSOCIATED ITEMS TO ALLOW FOR NEW CONSTRUCTION.
	TREE TO BE REMOVED	REMOVE TREE AND STUMP. CHIP AND STOCKPILE ON SITE FOR USE AS MULCH PER PLANTING PLAN. SIZE AS NOTED.
	TREE TO REMAIN	PROTECT IN PLACE. SIZE AS NOTED.
	FENCING	TREE PROTECTION FENCING

DEMOLITION SCHEDULE

SYMBOL	DESCRIPTION
D-01	REMOVE TREE AND STUMP. CHIP AND STOCKPILE ON SITE FOR USE AS MULCH. SIZE AS NOTED. TREES TO BE REMOVED BY DISTRICT TBD.
D-02	REMOVE AND DISPOSE OF EXISTING CONCRETE PAD AND BASE COURSES
D-03	REMOVE AND SALVAGE EXISTING CONCRETE BENCHES AND TABLES TO DISTRICT. REMOVE AND DISPOSE OF EXISTING CONCRETE PAD.
D-04	REMOVE AND GRIND EXISTING 12" TREE STUMP
D-05	CLEAR, GRUB, AND REMOVE EXISTING TURF, GROUND COVER, SHRUBS, AND GRAVEL. REMOVE AND PROPERLY DISPOSE OF ALL IRRIGATION PIPING, FITTINGS, HEADS, AND ASSOCIATED ITEMS.

EX EXISTING TO REMAIN SCHEDULE

<u>SYMBOL</u>	<u>DESCRIPTION</u>
EX-01	EXISTING TREE - PROTECT IN PLACE. SIZE AS NOTED.
EX-02	EXISTING TEMPORARY FENCE - LOCATION APPROXIMATE RELOCATE TO TREE DRIP-LINE / LIMIT OF WORK
EX-03	EXISTING FENCE - PROTECT IN PLACE
EX-04	EXISTING UTILITY - PROTECT IN PLACE / RELOCATE / DOWN SIZE - TBD UTILITY TO BE VERIFIED
EX-05	EXISTING BOLLARD - PROTECT IN PLACE
EX-06	EXISTING WATER FOUNTAIN - PROTECT IN PLACE FINAL LOCATION TBD



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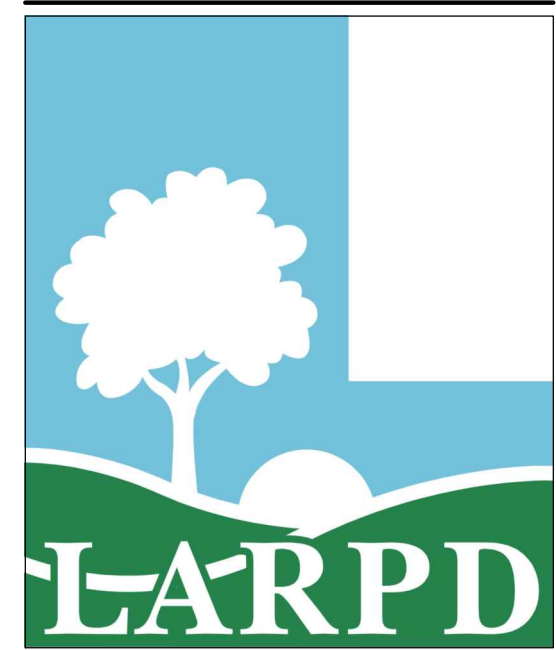


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DEMOLITION PLAN

[illegible]

PROJECT MANAGER

DRAWN BY

XX

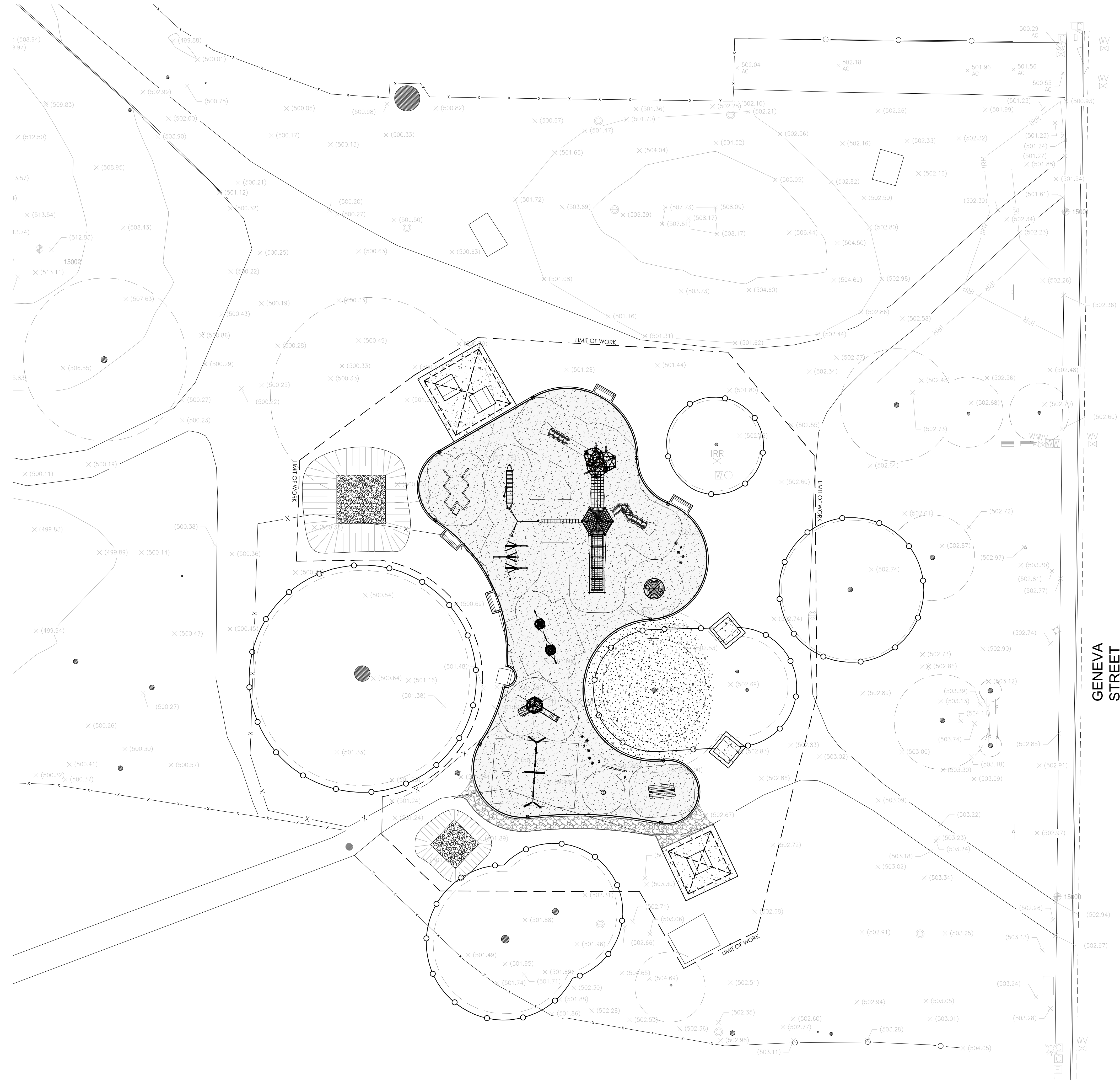
DATE
FEBRUARY 26, 2019

PROJECT NUMBER

1317-01-RC18

SHEET

DM101



GENERAL EROSION CONTROL NOTES

THE BMPs PROPOSED ON THESE PLANS ARE INTENDED TO BE USED AS A GUIDE TO THE CONTRACTOR. SHOULD OTHER AND/OR MORE EXTENSIVE MEASURE BECOME NECESSARY, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT THESE MEASURES IN A TIMELY MANNER.

- A. DURING CONSTRUCTION, THE CONTRACTOR MUST CONTAIN ALL RUNOFF TO NON-ERODIBLE LOCATIONS.
- B. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE YEAR AROUND THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT. NECESSARY MATERIALS SHALL BE AVAILABLE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN NECESSARY.
- C. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN AND/OR AS DIRECTED BY THE ENGINEER TO CONTROL DRAINAGE WHICH HAS BEEN AFFECTED BY GRADING AND/OR TRENCHING
- D. THE CONTRACTOR WILL BE ON CALL IN THE EVENT IT IS NECESSARY TO IMPLEMENT EROSION CONTROL MEASURES OR IN THE EVENT OF AN EMERGENCY.
- E. ALL PROTECTIVE DEVICES TO BE INSTALLED SHALL BE IN PLACE, FUNCTIONAL, AND EFFECTIVE AT THE END OF EACH WORK DAY.
- F. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND SEDIMENTATION BASIN AND THE BASIN PUMPED DRY.
- G. THE ENGINEER OF RECORD, OR AN AUTHORIZED REPRESENTATIVE MAY REQUIRE THE CONTRACTOR AT ANY TIME TO INSTALL AND/OR CONSTRUCT ADDITIONAL DRAINAGE STRUCTURES AS NECESSARY TO PREVENT OR CONTROL EROSION.
- H. THE EROSION CONTROL DEVICES ON THIS PLAN ARE A GENERAL CONCEPT OF WHAT MAY BE REQUIRED. EROSION CONTROL DEVICES MAY BE RELOCATED, DELETED OR ADDITIONAL ITEMS MAY BE REQUIRED DEPENDING ON THE ACTUAL SOIL CONDITIONS ENCOUNTERED AND METHODS OF CONSTRUCTION.
- I. THE CONTRACTOR IS RESPONSIBLE TO KEEP IN FORCE ALL EROSION CONTROL DEVICES AND TO MODIFY THOSE DEVICES AS SITE PROGRESS DICTATES.
- J. THE CONTRACTOR SHALL MONITOR THE EROSION CONTROL DEVICES DURING STORM EVENTS AND MODIFY AS NECESSARY TO PREVENT EROSION.
- K. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ANY EROSION OR DEBRIS SPILLING OUTSIDE THE WORK ZONE.
- L. THE CONTRACTOR SHALL CONTACT THE ENGINEER IN THE EVENT THAT THE EROSION CONTROL PLAN AS DESIGNED REQUIRES ANY SUBSTANTIAL REVISIONS.
- M. NO CUT OR FILL SLOPES SHALL BE STEEPER THAN 2' HORIZONTAL TO 1' VERTICAL.
- N. SILT FENCE SHALL BE PROVIDED AS NECESSARY PER MANUFACTURER'S RECOMMENDED INSTALLATION METHODS.
- O. CONTRACTOR TO REMOVE ALL EROSION CONTROL BMP'S PRIOR TO ACCEPTANCE OF FACILITIES BY OWNER AND RESTORE SITE TO EXISTING CONDITION.

DUST CONTROL NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST WITHIN THE LIMITS OF THE CONSTRUCTION PROJECT AT ALL TIMES, INCLUDING WEEKENDS AND HOLIDAYS IN ADDITION TO REGULAR WORKING DAYS.

MATERIAL STORAGE NOTES

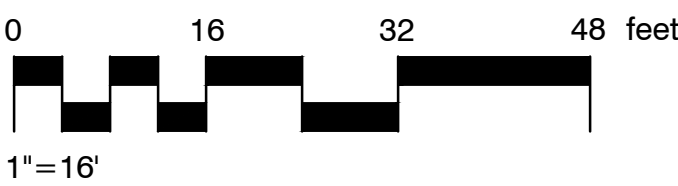
- A. STORE CHEMICALS IN WATER TIGHT CONTAINERS IN A SECURE STORAGE SHED.
- B. STACK ERODIBLE LANDSCAPE MATERIAL ON PALLETS & COVER WHEN NOT IN USE.
- C. CONTAIN ALL FERTILIZERS & OTHER LANDSCAPE MATERIALS WHEN NOT IN USE.

STOCKPILE MANAGEMENT NOTES

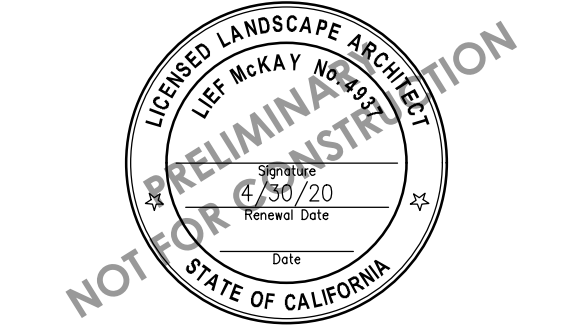
- A. STOCKPILES ARE REQUIRED TO BE PROTECTED IMMEDIATELY IF THEY ARE NOT SCHEDULED TO BE USED WITHIN 14 DAYS.
- B. IMPLEMENT WIND EROSION CONTROL PRACTICES.
- C. PROTECT STOCKPILES FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER SEDIMENT BARRIERS.

LEGEND

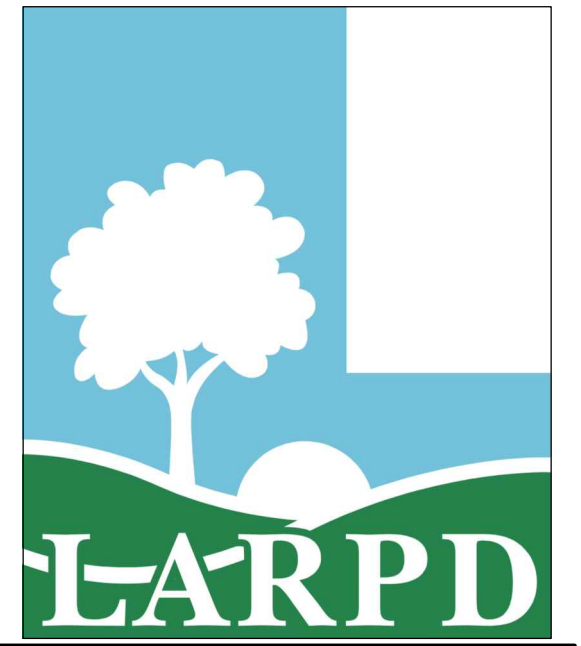
- FIBER ROLL
- INLET PROTECTION
- CONCRETE WASHOUT
- PORTABLE RESTROOMS (CONTRACTOR TO DETERMINE LOCATION)
- MATERIAL STORAGE AREA (CONTRACTOR TO DETERMINE LOCATION)
- STABILIZED CONSTRUCTION ENTRANCE (CONTRACTOR TO DETERMINE LOCATION)



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STORMWATER MANAGEMENT
AND EROSION CONTROL PLAN

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PROJECT MANAGER JULIAN SIMEONI	
DRAWN BY XX	CHECKED BY XX
DATE FEBRUARY 26, 2019	
PROJECT NUMBER 1317-01-RC18	
SHEET	

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Material Delivery and Storage WM-1

- Hazardous materials storage onsite should be minimized.
- Hazardous materials should be handled as infrequently as possible.
- Keep ample spill cleanup supplies appropriate for the materials being stored. Ensure that cleanup supplies are in a conspicuous, labeled area.
- Employees and subcontractors should be trained on the proper material delivery and storage practices.
- Employees trained in emergency spill cleanup procedures must be present when dangerous materials or liquid chemicals are unloaded.
- If significant residual materials remain on the ground after construction is complete, properly remove and dispose of materials and any contaminated soil. See WM-7, Contaminated Soil Management. If the area is to be paved, pave as soon as materials are removed to stabilize the soil.

Material Storage Areas and Practices

- Liquids, petroleum products, and substances listed in 40 CFR Parts 110, 117, or 302 should be stored in approved containers and drums and should not be overfilled. Containers and drums should be placed in temporary containment facilities for storage.
- A temporary containment facility should provide for a spill containment volume able to contain precipitation from a 25 year storm event, plus the greater of 10% of the aggregate volume of all containers or 100% of the capacity of the largest container within its boundary, whichever is greater.
- A temporary containment facility should be impervious to the materials stored therein for a minimum contact time of 72 hours.
- A temporary containment facility should be maintained free of accumulated rainwater and spills. In the event of spills or leaks, accumulated rainwater and spills should be collected and placed into drums. These liquids should be handled as a hazardous waste unless testing determines them to be non-hazardous. All collected liquids or non-hazardous liquids should be sent to an approved disposal site.
- Sufficient separation should be provided between stored containers to allow for spill cleanup and emergency response access.
- Incompatible materials, such as chlorine and ammonia, should not be stored in the same temporary containment facility.
- Materials should be covered prior to, and during rain events.
- Materials should be stored in their original containers and the original product labels should be maintained in place in a legible condition. Damaged or otherwise illegible labels should be replaced immediately.

Material Delivery and Storage WM-1

- Asphalt and concrete components
- Hazardous chemicals such as acids, lime, glues, adhesives, paints, solvents, and curing compounds
- Concrete compounds
- Other materials that may be detrimental if released to the environment

Limitations

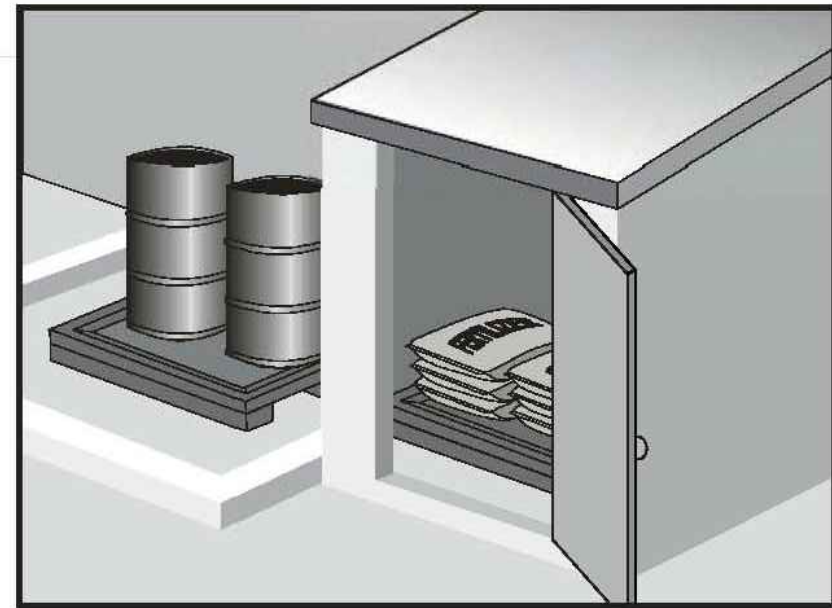
- Space limitation may preclude indoor storage.
- Storage sheds often must meet building and fire code requirements.

Implementation

The following steps should be taken to minimize risk:

- Chemicals must be stored in water tight containers with appropriate secondary containment or in a storage shed.
- When a material storage area is located on bare soil, the area should be lined and bermed.
- Use containment pallets or other practical and available solutions, such as storing materials within newly constructed buildings or garages, to meet material storage requirements.
- Stack erodible landscape material on pallets and cover when not in use.
- Contain all fertilizers and other landscape materials when not in use.
- Temporary storage areas should be located away from vehicular traffic.
- Material Safety Data Sheets (MSDS) should be available on-site for all materials stored that have the potential to effect water quality.
- Construction site areas should be designated for material delivery and storage.
- Material delivery and storage areas should be located away from waterways, if possible.
 - Avoid transport near drainage paths or waterways.
 - Surround with earth berms or other appropriate containment BMP. See EC-9, Earth Dikes and Drainage Swales.
 - Place in an area that will be paved.
- Storage of reactive, ignitable, or flammable liquids must comply with the fire codes of your area. Contact the local Fire Marshal to review site materials, quantities, and proposed storage area to determine specific requirements. See the Flammable and Combustible Liquid Code, NFPA30.
- An up to date inventory of materials delivered and stored onsite should be kept.

Material Delivery and Storage WM-1



Categories	
EC	Erosion Control
SE	Sediment Control
TC	Tracking Control
WE	Wind Erosion Control
NS	Non-Stormwater Management Control
WM	Waste Management and Materials Pollution Control <input checked="" type="checkbox"/>
Legend:	
<input checked="" type="checkbox"/>	Primary Category
<input type="checkbox"/>	Secondary Category

Description and Purpose

Prevent, reduce, or eliminate the discharge of pollutants from material delivery and storage to the stormwater system or watercourses by minimizing the storage of hazardous materials onsite, storing materials in watertight containers and/or a completely enclosed designated area, installing secondary containment, conducting regular inspections, and training employees and subcontractors.

This best management practice covers only material delivery and storage. For other information on materials, see WM-2, Material Use, or WM-4, Spill Prevention and Control. For information on wastes, see the waste management BMPs in this section.

Suitable Applications

These procedures are suitable for use at all construction sites with delivery and storage of the following materials:

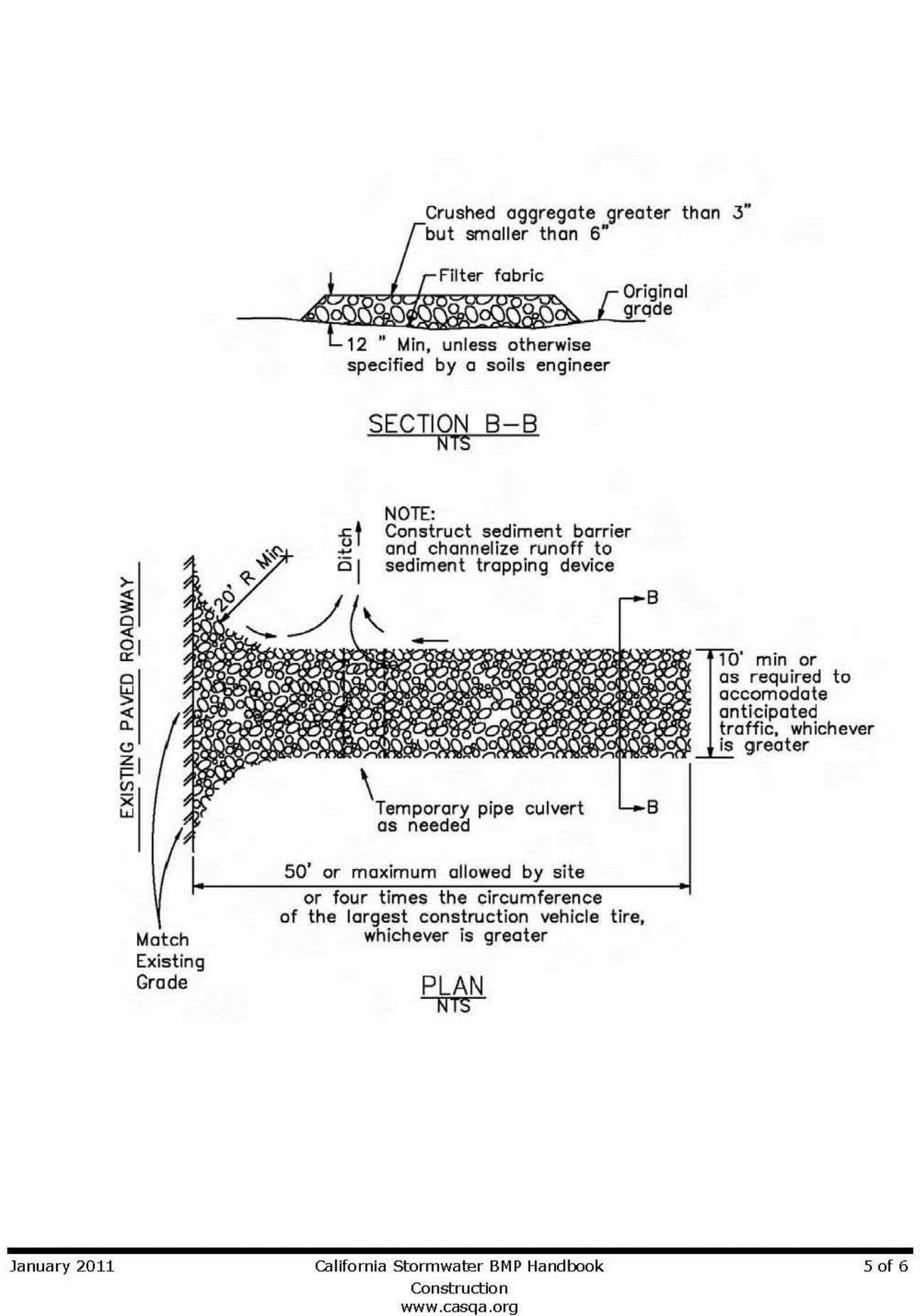
- Soil stabilizers and binders
- Pesticides and herbicides
- Fertilizers
- Detergents
- Plaster
- Petroleum products such as fuel, oil, and grease

Targeted Constituents	
Sediment	<input checked="" type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>
Trash	<input checked="" type="checkbox"/>
Metals	<input checked="" type="checkbox"/>
Bacteria	<input checked="" type="checkbox"/>
Oil and Grease	<input checked="" type="checkbox"/>
Organics	<input checked="" type="checkbox"/>

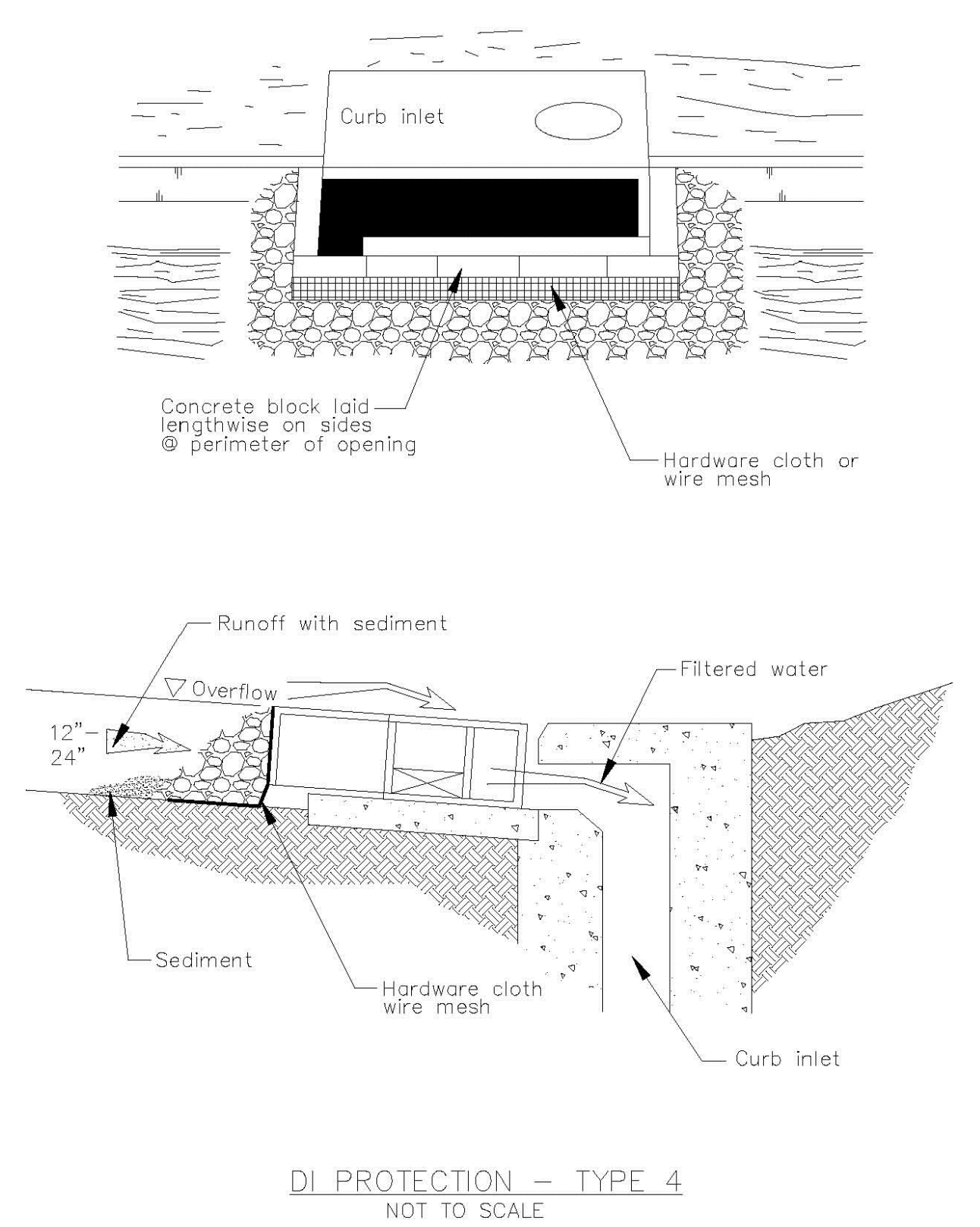
Potential Alternatives
None



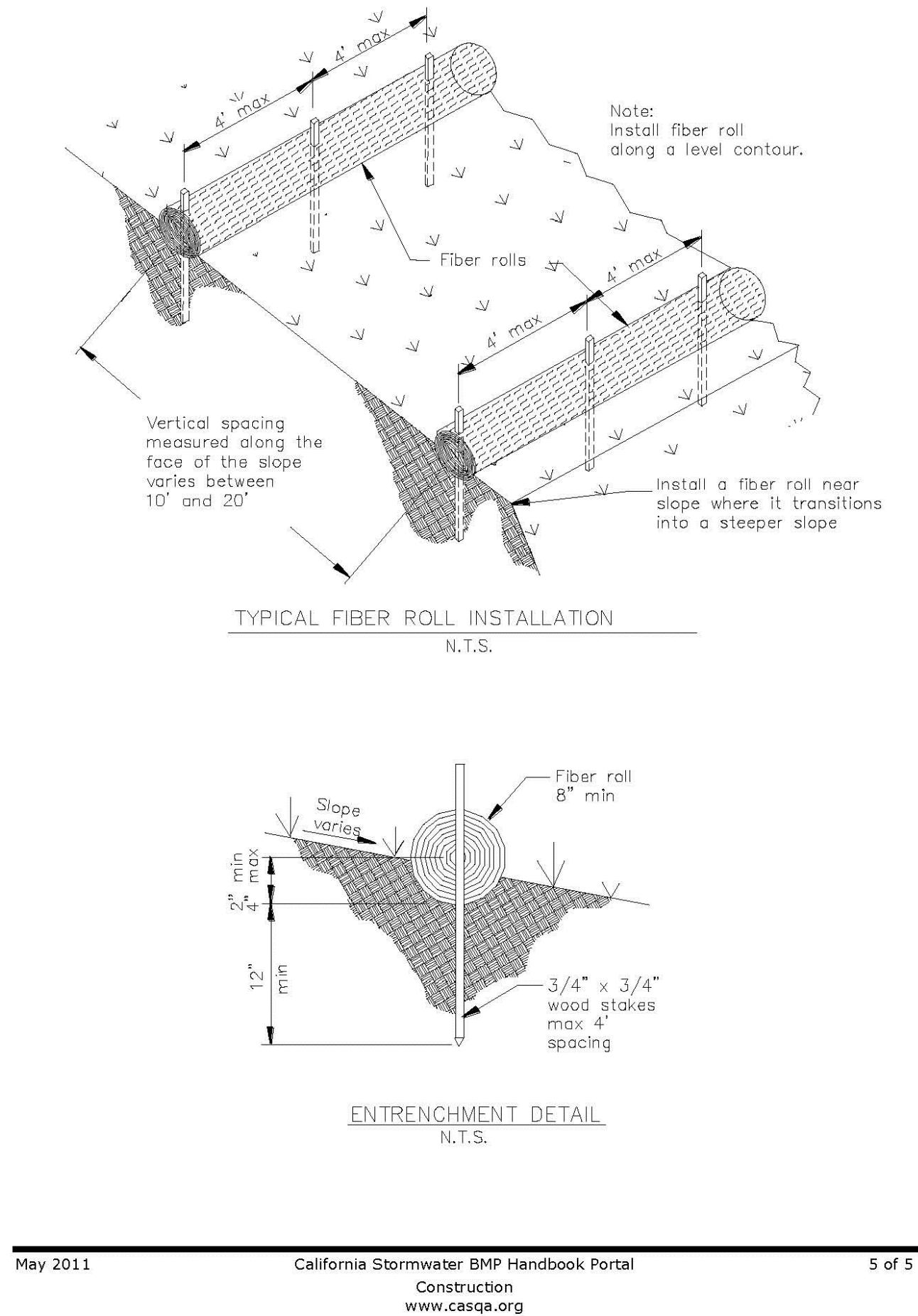
Stabilized Construction Entrance/Exit TC-1



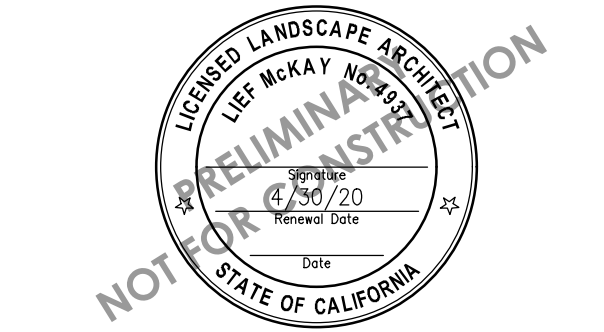
Storm Drain Inlet Protection SE-10



Fiber Rolls SE-5



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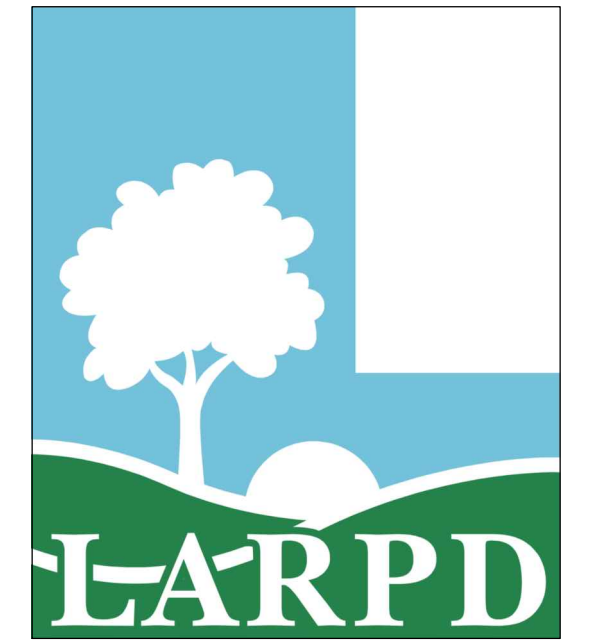


SUNSET PARK PLAYGROUND
1055 Geneva Street, Livermore, CA 94550
STORMWATER MANAGEMENT AND EROSION CONTROL DETAILS

NO.	REVISION	DATE
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PROJECT MANAGER JULIAN SIMEONI		
DRAWN BY XX		CHECKED BY XX
DATE FEBRUARY 26, 2019		
PROJECT NUMBER 1317-01-RC18		
SHEET CE501		



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SUNSET PARK PLAYGROUND

1055 Geneva Street, Livermore, CA 94550

STORMWATER MANAGEMENT AND EROSION CONTROL DETAILS

NO.	REVISION	DATE
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PROJECT MANAGER
JULIAN SIMEONI

DRAWN BY
XX

CHECKED BY
XX

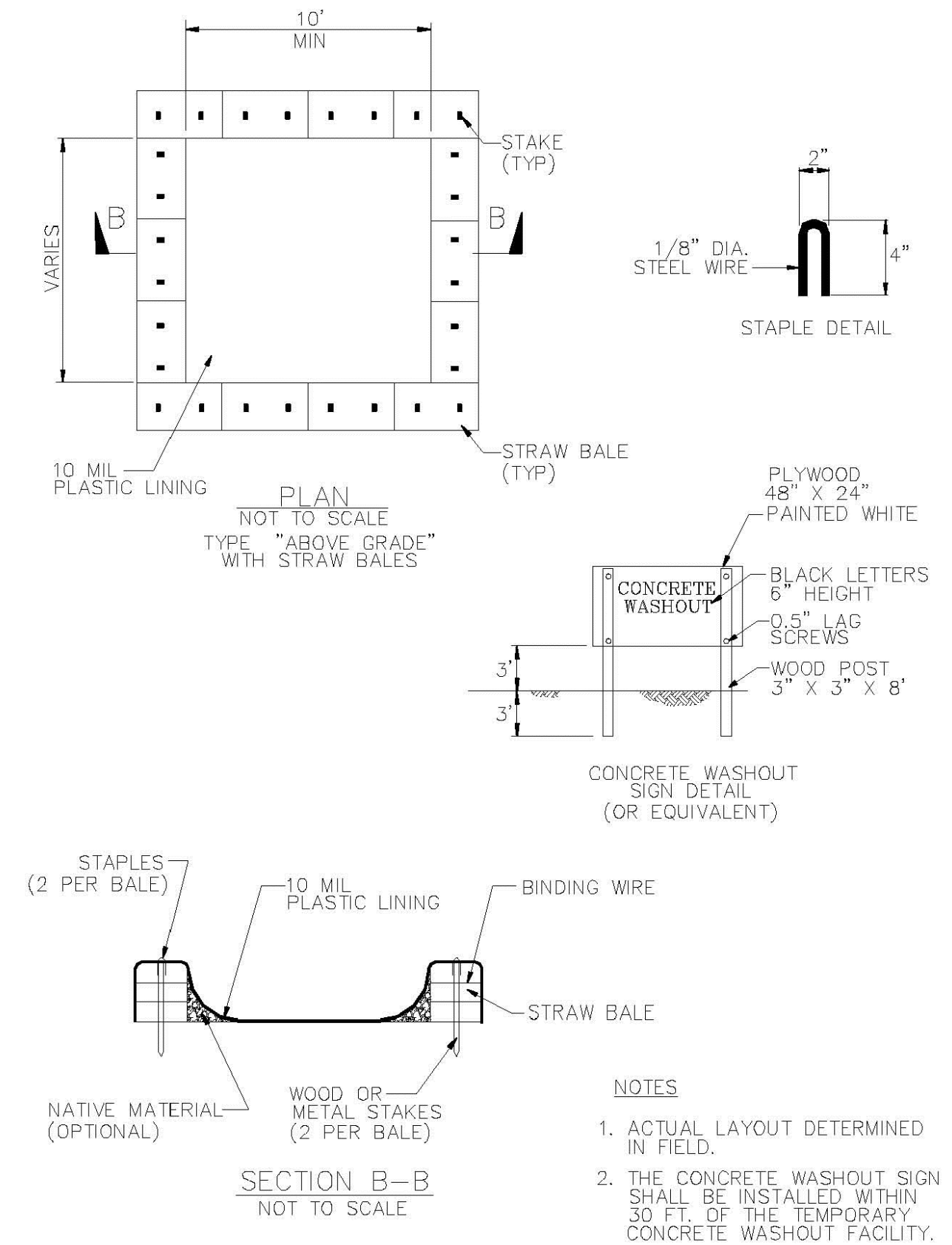
DATE
FEBRUARY 26, 2019

PROJECT NUMBER
1317-01-RC18

SHEET
CE502

75% CONSTRUCTION DOCUMENTS

Concrete Waste Management WM-8



Stockpile Management WM-3

Stockpiles/Storage of wood (Pressure treated with chromated copper arsenate or ammoniacal copper zinc arsenate)

- Cover treated wood with plastic sheeting (or comparable material) and surround with a berm at all times.

Protection of Active Stockpiles

Active stockpiles of the identified materials should be protected as follows:

- All stockpiles should be covered and protected with a temporary linear sediment barrier prior to the onset of precipitation.
- Stockpiles of “cold mix” and treated wood, and basic materials should be placed on and covered with plastic sheeting or comparable material and surrounded by a berm prior to the onset of precipitation.
- The downstream perimeter of an active stockpile should be protected with a linear sediment barrier or berm and runoff should be diverted around or away from the stockpile on the upstream perimeter.

Costs

For cost information associated with stockpile protection refer to the individual erosion or sediment control BMP fact sheet considered for implementation (For example, refer to SE-1 Silt Fence for installation of silt fence around the perimeter of a stockpile.)

Inspection and Maintenance

- Stockpiles must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- It may be necessary to inspect stockpiles covered with plastic sheeting more frequently during certain conditions (for example, high winds or extreme heat).
- Repair and/or replace perimeter controls and covers as needed to keep them functioning properly.
- Sediment shall be removed when it reaches one-third of the barrier height.

References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Stockpile Management WM-3

- On larger sites, a minimum of 50 ft separation from concentrated flows of stormwater, drainage courses, and inlets is recommended.
- All stockpiles are required to be protected immediately if they are not scheduled to be used within 14 days.
- Protect all stockpiles from stormwater run-on using temporary perimeter sediment barriers such as compost berms (SE-13), temporary silt dikes (SE-12), fiber rolls (SE-5), silt fences (SE-1), sandbags (SE-8), gravel bags (SE-6), or biofilter bags (SE-14). Refer to the individual fact sheet for each of these controls for installation information.
- Implement wind erosion control practices as appropriate on all stockpiled material. For specific information, see WE-1, Wind Erosion Control.
- Manage stockpiles of contaminated soil in accordance with WM-7, Contaminated Soil Management.
- Place bagged materials on pallets and under cover.
- Ensure that stockpile coverings are installed securely to protect from wind and rain.
- Some plastic covers withstand weather and sunlight better than others. Select cover materials or methods based on anticipated duration of use.

Protection of Non-Active Stockpiles

Non-active stockpiles of the identified materials should be protected further as follows:

Soil stockpiles

- Cover and protect soil stockpiles with soil stabilization measures and a temporary perimeter sediment barrier at all times.

- Consider temporary vegetation for topsoil piles that will be stockpiled for extended periods.

Stockpiles of Portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, or aggregate sub base

- Provide covers and protect these stockpiles with a temporary perimeter sediment barrier at all times.

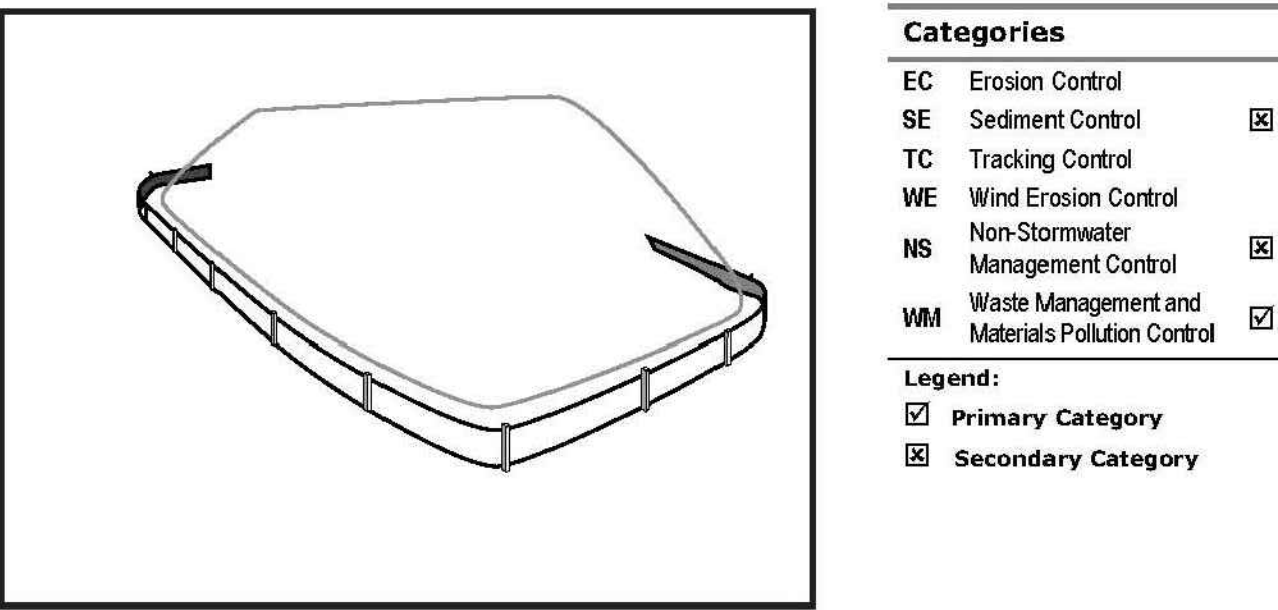
Stockpiles of “cold mix”

- Cover cold mix stockpiles and place them on plastic sheeting (or comparable material) and surround the stockpiles with a berm all times.

Stockpiles of fly ash, stucco, hydrated lime

- Cover stockpiles of materials that may raise the pH of runoff (i.e., basic materials) with plastic and surround the stockpiles with a berm at all times.

Stockpile Management WM-3



Description and Purpose

Stockpile management procedures and practices are designed to reduce or eliminate air and stormwater pollution from stockpiles of soil, soil amendments, sand, paving materials such as portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate sub base or pre-mixed aggregate, asphalt binder (so called “cold mix” asphalt), and pressure treated wood.

Suitable Applications

Implement in all projects that stockpile soil and other loose materials.

Limitations

- Plastic sheeting as a stockpile protection is temporary and hard to manage in windy conditions. Where plastic is used, consider use of plastic tarps with nylon reinforcement which may be more durable than standard sheeting.
- Plastic sheeting can increase runoff volume due to lack of infiltration and potentially cause perimeter control failure.
- Plastic sheeting breaks down faster in sunlight.
- The use of plastic materials should be avoided when feasible and photodegradable plastics should not be used.

Implementation

Protection of stockpiles is a year-round requirement. To properly manage stockpiles:



Material Delivery and Storage WM-1

- Repair or replace perimeter controls, containment structures, covers, and liners as needed to maintain proper function.

References

Blueprint for a Clean Bay: Best Management Practices to Prevent Stormwater Pollution from Construction Related Activities; Santa Clara Valley Nonpoint Source Pollution Control Program, 1995.

Coastal Nonpoint Pollution Control Program: Program Development and Approval Guidance, Working Group Working Paper; USEPA, April 1992.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Stormwater Management for Construction Activities; Developing Pollution Prevention Plans and Best Management Practice, EPA 832-R-92005; USEPA, April 1992.

Material Delivery and Storage WM-1

- Bagged and boxed materials should be stored on pallets and should not be allowed to accumulate on the ground. To provide protection from wind and rain throughout the rainy season, bagged and boxed materials should be covered during non-working days and prior to and during rain events.

- Stockpiles should be protected in accordance with WM-3, Stockpile Management.

- Materials should be stored indoors within existing structures or completely enclosed storage sheds when available.

- Proper storage instructions should be posted at all times in an open and conspicuous location.

- An ample supply of appropriate spill clean up material should be kept near storage areas.

- Also see WM-6, Hazardous Waste Management, for storing of hazardous wastes.

Material Delivery Practices

- Keep an accurate, up-to-date inventory of material delivered and stored onsite.
- Arrange for employees trained in emergency spill cleanup procedures to be present when dangerous materials or liquid chemicals are unloaded.

Spill Cleanup

- Contain and clean up any spill immediately.

- Properly remove and dispose of any hazardous materials or contaminated soil if significant residual materials remain on the ground after construction is complete. See WM-7, Contaminated Soil Management.

- See WM-4, Spill Prevention and Control, for spills of chemicals and/or hazardous materials.

- If spills or leaks of materials occur that are not contained and could discharge to surface waters, non-visible sampling of site discharge may be required. Refer to the General Permit or to your project specific Construction Site Monitoring Plan to determine if and where sampling is required.

Cost

- The largest cost of implementation may be in the construction of a materials storage area that is covered and provides secondary containment.

Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.

- Keep storage areas clean and well organized, including a current list of all materials onsite.

- Inspect labels on containers for legibility and accuracy.

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GRADING AND DRAINAGE NOTES

1. ALL GRADING AND CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT TITLED "PROPOSED NEW PLAYGROUND AT TENNYSON PARK" PREPARED BY LAI & ASSOCIATES, DATED JULY 31, 2017, FOR THIS PROJECT AND TO THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION.
2. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE INDUSTRIAL SAFETY REGULATIONS. THE OWNER AND ITS OFFICIALS, THE ENGINEER, AND THE LANDSCAPE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ENFORCING SAFETY REGULATIONS.
3. THE PAVING STRUCTURAL SECTION SHALL BE BASED ON A TRAFFIC INDEX OF 5.0 AND SOILS TESTS PERFORMED AT THE TIME OF CONSTRUCTION.
4. ALL CONTACT SURFACES BETWEEN ORIGINAL GROUND AND RECOMPACTED FILL MATERIAL SHALL BE EITHER HORIZONTAL OR VERTICAL (PER SECTION 19 CALTRANS STANDARD SPECIFICATIONS DATED JULY 1995).
5. FILL MATERIAL SHALL BE SPREAD IN LIFTS AS REQUIRED BY THE GEOTECHNICAL ENGINEERING REPORT. THE MATERIALS FOR ENGINEERED FILL SHALL BE APPROVED BY A REGISTERED CIVIL ENGINEER. ANY IMPORTED MATERIALS MUST BE APPROVED BEFORE BEING BROUGHT TO THE SITE. THE MATERIALS USED SHALL BE FREE OF ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS.
6. OVER EXCAVATION, REPLACEMENT AND COMPACTION REQUIREMENTS SHALL CONFORM TO THE GEOTECHNICAL ENGINEERING REPORT.
7. FIELD DENSITY TESTS SHALL BE MADE UNDER THE DIRECTION OF A SOILS ENGINEER ON EACH COMPACTED LAYER. AT LEAST ONE (1) TEST SHALL BE MADE FOR EACH FIVE-HUNDRED (500) CUBIC YARDS, OR A FRACTION THEREOF, PLACED WITH A MINIMUM OF TWO (2) TESTS PER LAYER IN ISOLATED AREAS OR AS DIRECTED BY THE SOILS ENGINEER.
8. UPON COMPLETION OF THE GRADING OPERATION, A SOILS ENGINEER SHALL CERTIFY THAT ALL GRADING COMPLIES WITH THE RECOMMENDATIONS OF THE SPECIFICATIONS AND THE REFERENCED GEOTECHNICAL ENGINEERING REPORT. A LICENSED LAND SURVEYOR OR CIVIL ENGINEER SHALL CERTIFY, IN WRITING, THE FINISH GRADES PRIOR TO FINAL APPROVAL.
9. EXPORT MATERIAL (IF ANY) SHALL BE DISPOSED OF IN A LOCATION APPROVED BY THE OWNER OR THE COUNTY OF ALAMEDA.
10. THE OWNER OR THE ENGINEER OF WORK MAY REQUIRE EROSION CONTROL DEVICE INSTALLATION WITHIN ANY DOWNSTREAM DRAINAGE FACILITY.
11. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
12. ALL EROSION CONTROL DEVICES TO BE INSTALLED SHALL BE IN PLACE AT THE END OF EACH WORK DAY WHEN THE FIVE (5) DAY RAIN PROBABILITY EXCEEDS 40%.
13. POSITIVE DRAINAGE SHALL BE PROVIDED AWAY FROM ALL MANMADE SLOPES. NO RUNOFF MAY BE CONCENTRATED.
14. EXPOSED GROUND AREAS THAT ARE PLANNED TO BE REWORKED AT DATES MORE THAN THREE (3) WEEKS AFTER INITIAL GRADING SHALL BE SOWN WITH A FAST GERMINATING NATIVE GRASS SEED AND WATERED UNTIL VEGETATION IS ESTABLISHED.
15. CUT OR FILL SLOPES SHALL BE NO STEEPER THAN TWO (2) HORIZONTAL TO ONE (1) VERTICAL (2:1) WITHOUT JUSTIFICATION FROM THE SOILS ENGINEER.
16. ALL DISTURBED SURFACES SLOPED FOUR HORIZONTAL TO ONE VERTICAL (4:1) AND GREATER SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION BY EFFECTIVE PLANTING TO BE COMPLETED NO LATER THAN THIRTY (30) DAYS PRIOR TO REQUEST FOR FINAL APPROVAL.



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SUNSET PARK PLAYGROUND

1055 Geneva Street, Livermore, CA 94550

GRADING NOTES

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PROJECT MANAGER	
JULIAN SIMEONI	
DRAWN BY	CHECKED BY
XX	XX
DATE	
FEBRUARY 26, 2019	
PROJECT NUMBER	
1317-01-RC18	
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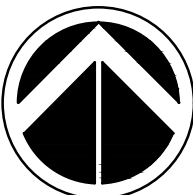
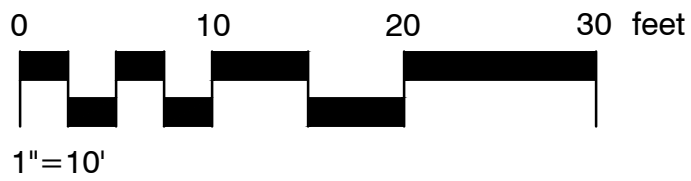
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LAYOUT PLAN

PROJECT MANAGER JULIAN SIMEONI	
DRAWN BY XX	CHECKED BY XX
DATE FEBRUARY 26, 2019	
PROJECT NUMBER 1317-01-RC18	
SHEET	

CH101



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REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
3-01	PLAY CURB
3-02	PLAY CURB AT TREE
3-03	GRAVEL PATH WITH STEEL EDGE

SYMBOL	DESCRIPTION
32-01	TABLE TYPE 1
32-02	TABLE TYPE 2
32-03	BENCH
32-04	SHADE SHELTER TYPE 1
32-05	SHADE SHELTER TYPE 2

SYMBOL	EXISTING TO REMAIN DESCRIPTION
EX-01	EXISTING TREE - PROTECT IN PLACE. SIZE AS NOTED.
EX-02	EXISTING TEMPORARY FENCE - LOCATION APPROXIMATE RELOCATE TO TREE DRIP-LINE / LIMIT OF WORK

EX-04	EXISTING UTILITY - PROTECT IN PLACE / RELOCATE / DOWN SIZE - TBD UTILITY TO BE VERIFIED
EX-05	EXISTING BOLLARD - PROTECT IN PLACE
EX-06	EXISTING WATER FOUNTAIN - PROTECT IN PLACE FINAL LOCATION TBD
EX-07	EXISTING GRAVEL SURFACE - PROTECT IN PLACE

SYMBOL	PLAY EQUIPMENT DESCRIPTION
PE-01	LAPPSET DOUBLE BAY SWING
PE-02	CUSTOM BERLINER TOWER, 5-12 YRS. TOWER/TRIITOPIA/TERRANOS COMBI
PE-03	CUSTOM BERLINER STRUCTURE, 2-5 YRS.
PE-04	BERLINER O'TANNEBAUM 2.5 SPINNER
PE-05	BERLINER DOUBLE PALMETTO SAUCER
PE-06	BERLINER EDDIE.04 SPINNER
PE-07	LAPPSET FLORA CLOVER STEPPERS
PE-08	LAPPSET FLORA CONE STEPPERS
PE-09	LAPPSET FLORA TROLL'S BALANCE BEAM
PE-10	LAPPSET FLORA GOBLINS TRACK
PE-11	LAPPSET FLORA FOREST HOUSE



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SUNSET PARK PLAYGROUND

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CONSTRUCTION NOTES
AND LEGEND

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PROJECT MANAGER JULIAN SIMEONI	
DRAWN BY XX	CHECKED BY XX
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PROJECT NUMBER 1317-01-RC18	

SHEET
LC001

75% CONSTRUCTION DOCUMENTS

NOTES

1. SEE SHEET G001 FOR SYMBOL LEGEND.
2. SEE SHEET LC001 FOR REFERENCE NOTES.
3. SEE CH SERIES SHEETS FOR HORIZONTAL CONTROL POINTS.



SUNSET PARK PLAYGROUND

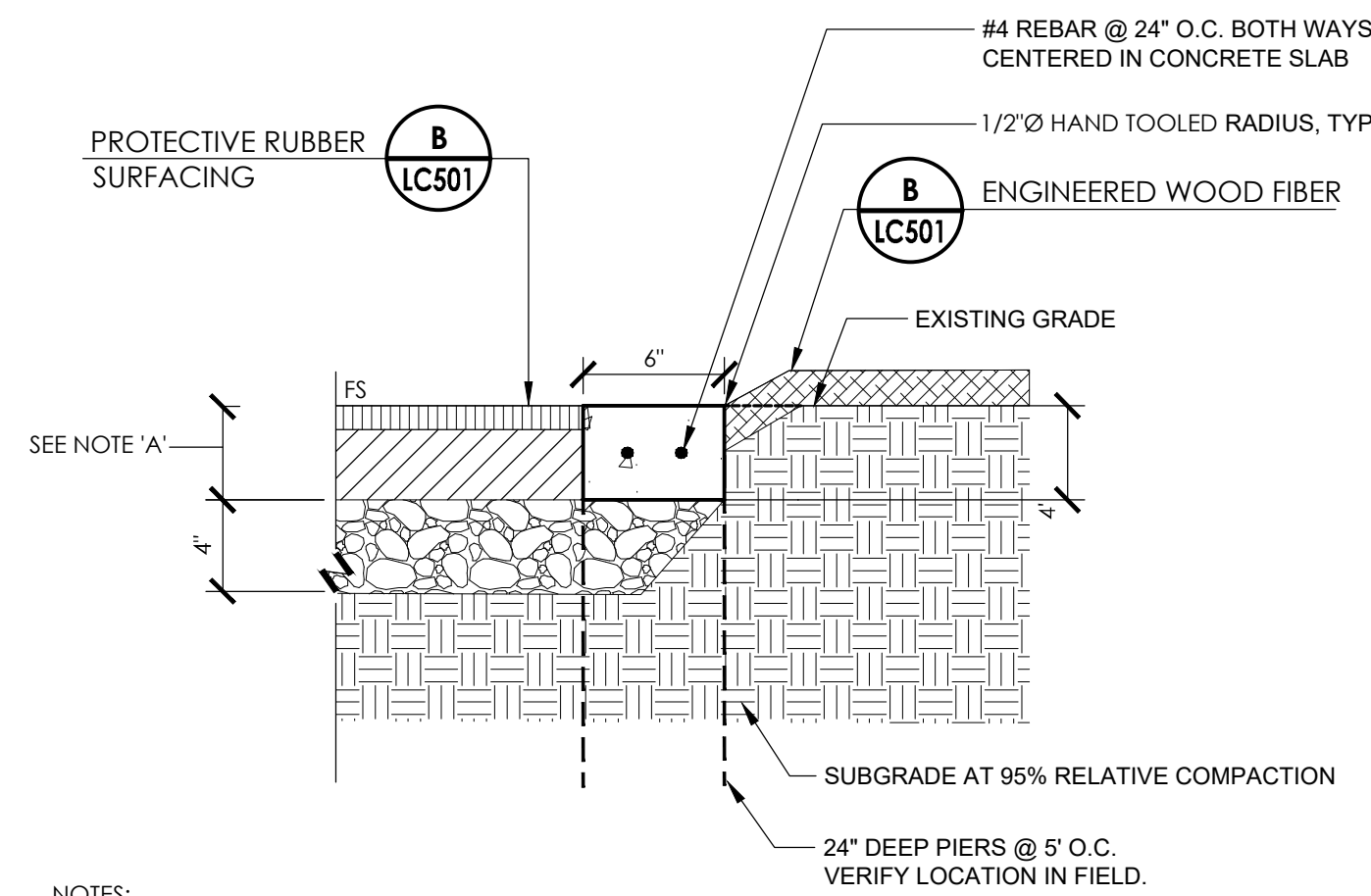
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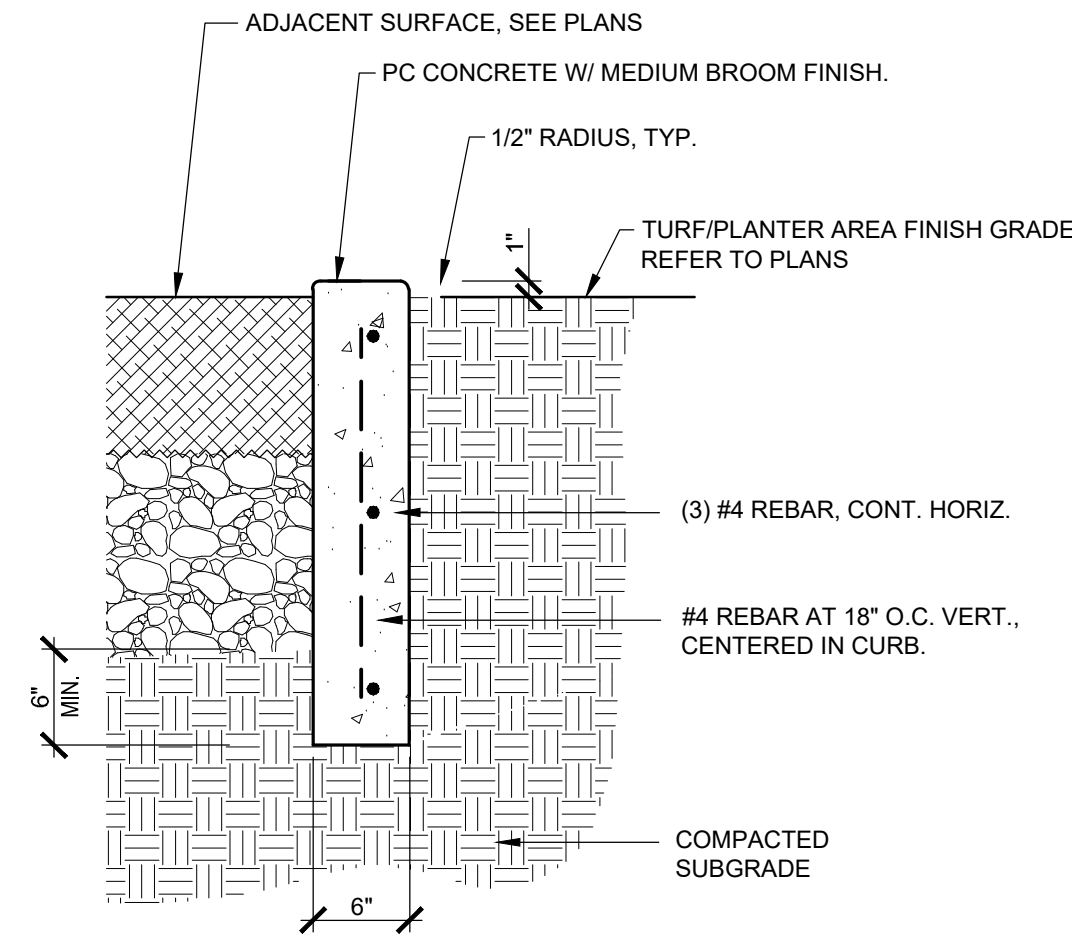
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- NOTES:
- THICKNESS OF CUSHIONED SEAMLESS FLOORING SYSTEM VARIES PER MANUFACTURER'S INSTRUCTIONS.
 - LIMIT OF RUBBER SURFACING SHOWN ON PLANS IS RUBBER ANGLE-POINT.

I PLAY CURB AT TREE
1 1/2" = 1'-0"

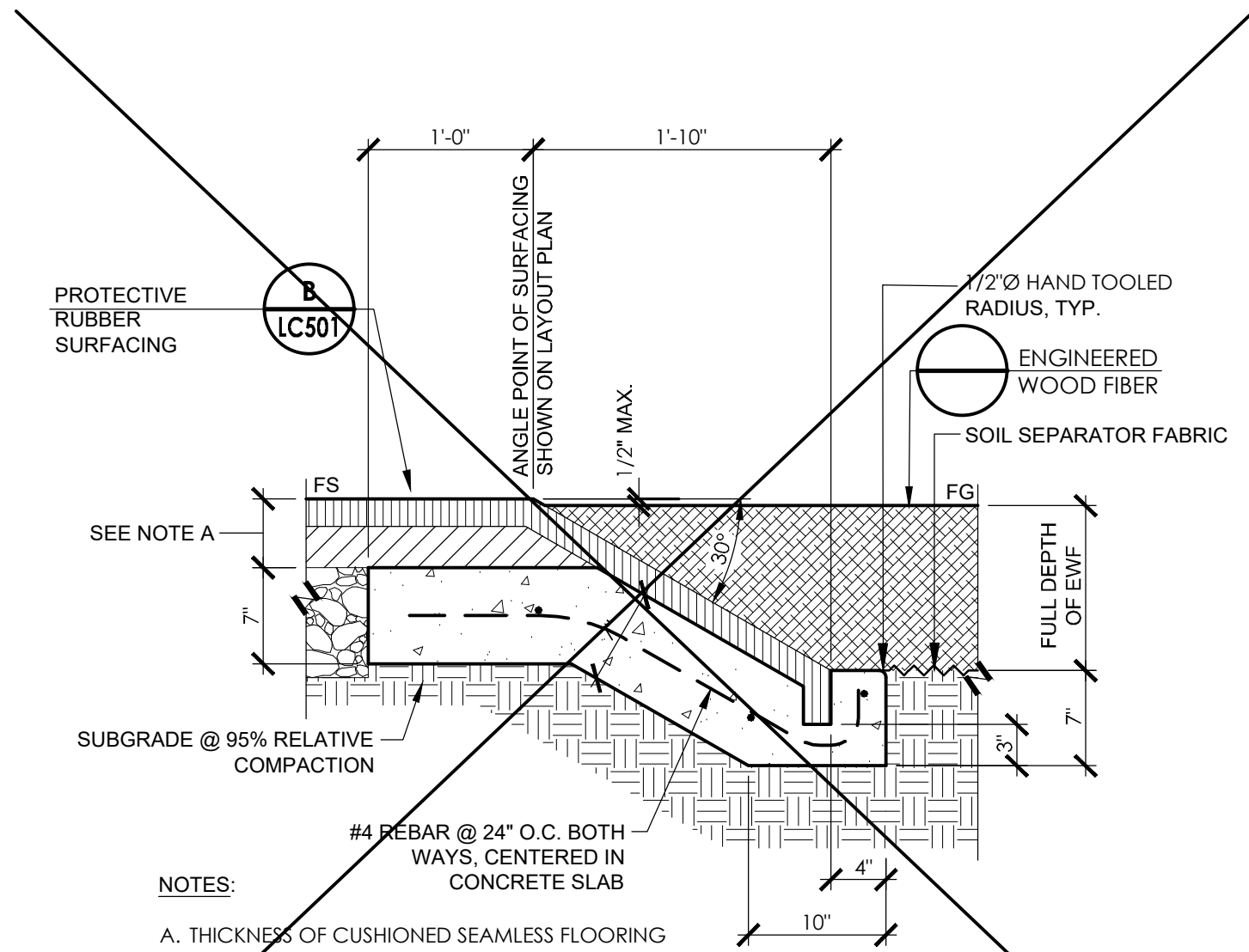
321613.16-31



- NOTES:
- PROVIDE CONTRACTION JOINT EVERY 10' MAX.
 - PROVIDE EXPANSION JOINT EVERY 20' MAX.

F PLAY CURB
1" = 1'-0"

321816.23-22

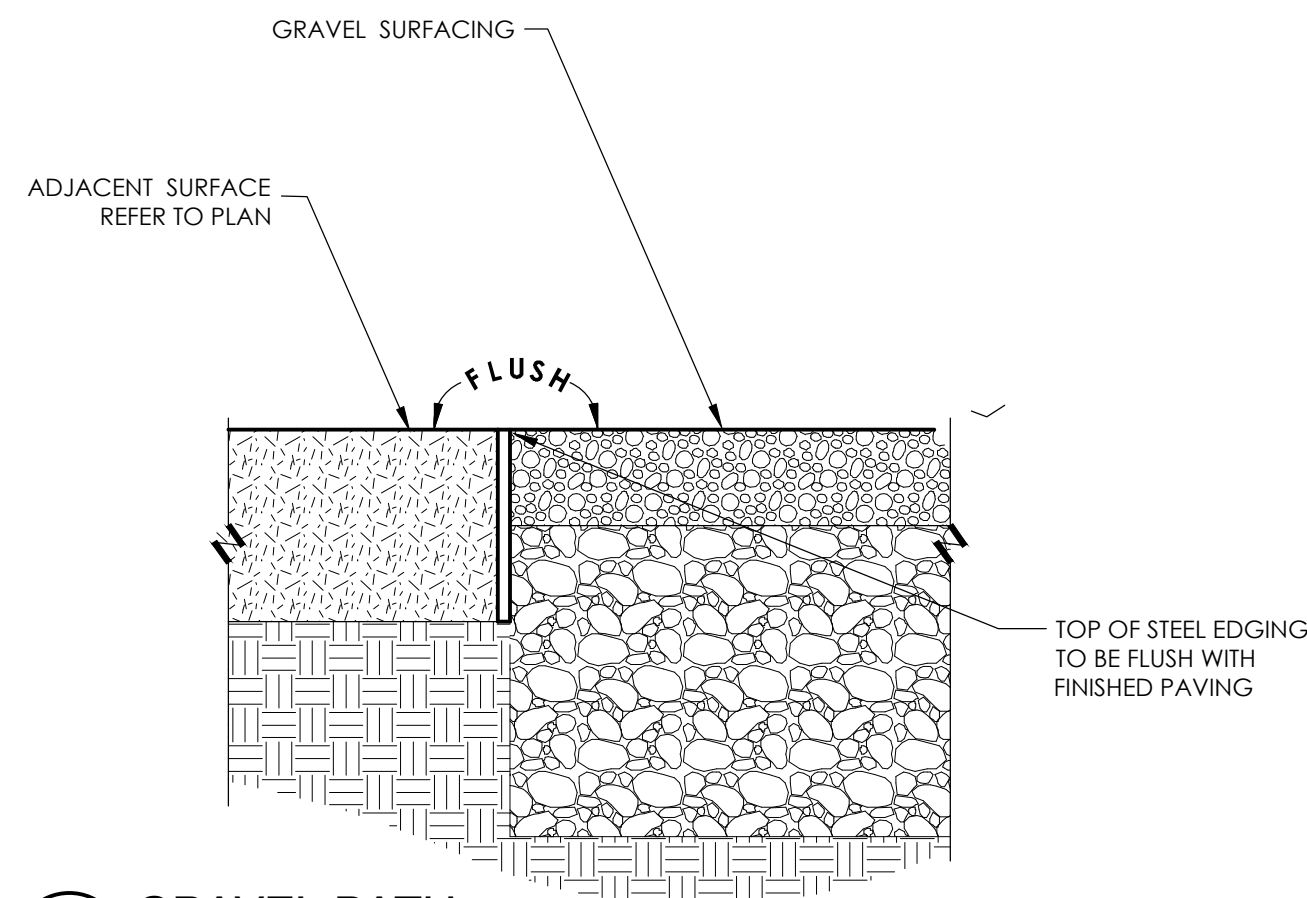


- NOTES:
- THICKNESS OF CUSHIONED SEAMLESS FLOORING SYSTEM VARIES PER MANUFACTURER'S INSTRUCTIONS.
 - LIMIT OF RUBBER SURFACING SHOWN ON PLANS IS RUBBER ANGLE-POINT.

C RUBBER AT ENGINEERED WOOD FIBER
1" = 1'-0"

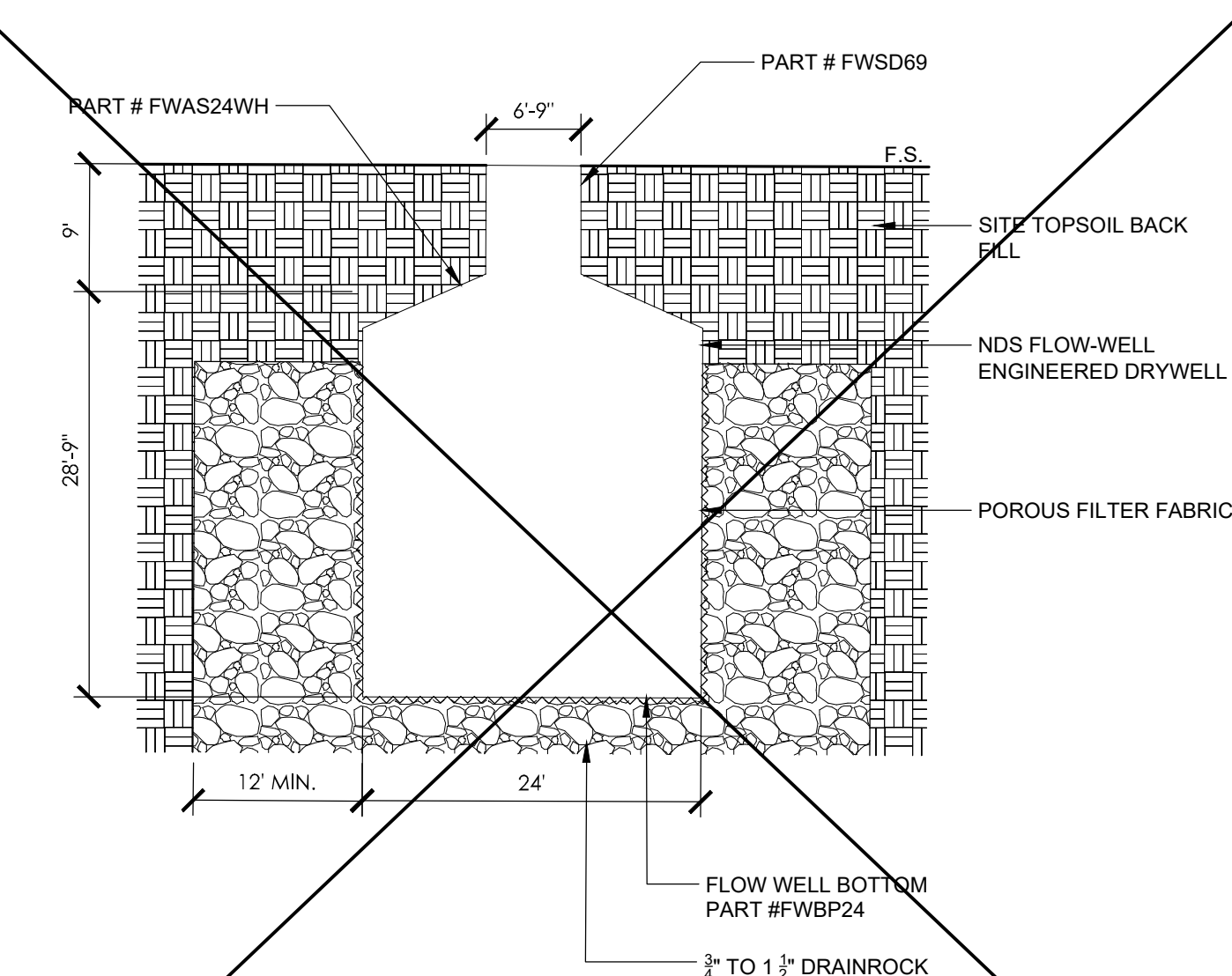
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PLACEHOLDER



K GRAVEL PATH
3" = 1'-0"

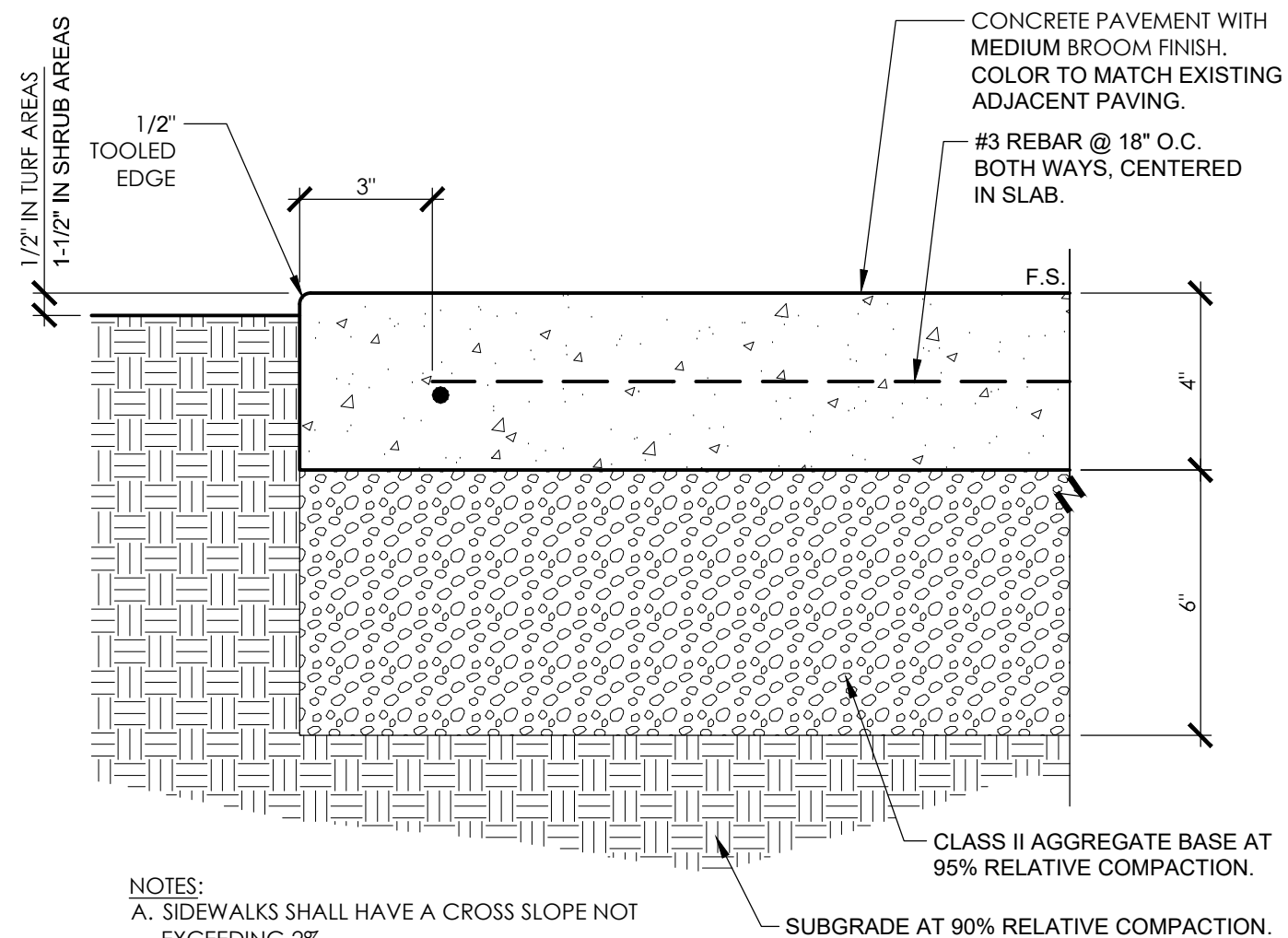
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- NOTES:
- INSTALL PER MANUFACTURER'S SPECIFICATIONS.

H DRYWELL - PREFABRICATED
1" = 1'-0"

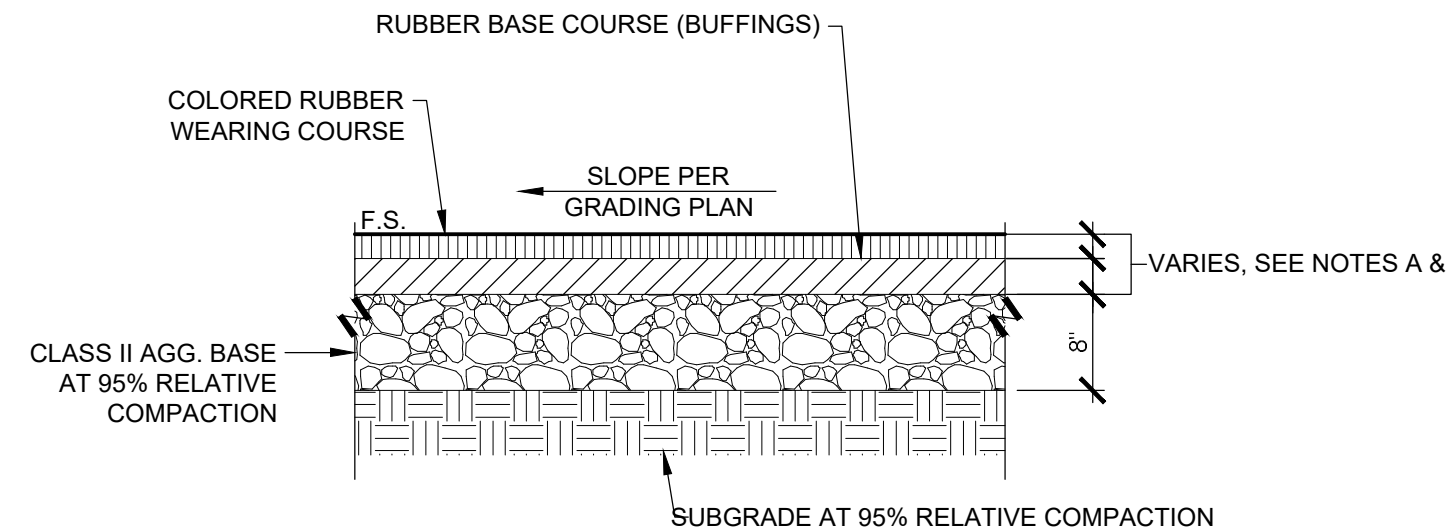
323020-12



- NOTES:
- SIDEWALKS SHALL HAVE A CROSS SLOPE NOT EXCEEDING 2%.
 - PROVIDE CONTROL JOINTS PER DETAIL.
 - SUPPORT REBAR WITH CHAIRS.
 - PROVIDE THICKENED EDGE AT LOCATIONS SHOWN ON PLANS.

E CONCRETE PAVING
3" = 1'-0"

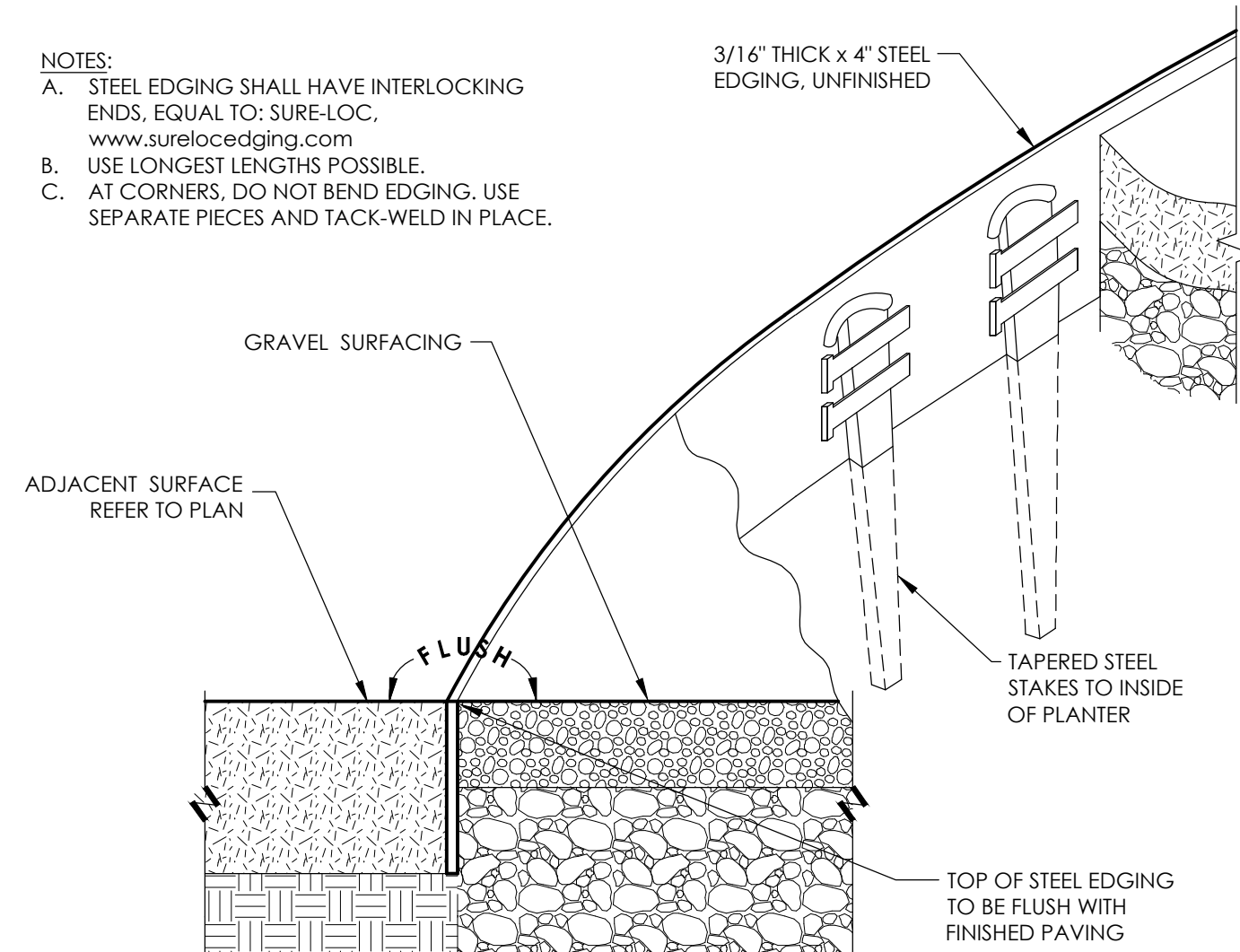
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- NOTES:
- CRITICAL FALL HEIGHTS FOR PLAY COMPONENTS ARE SHOWN ON THE PLANS. CONTRACTOR SHALL CONTACT MANUFACTURER TO VERIFY CRITICAL FALL HEIGHTS FOR SPECIFIED PLAY EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO INSTALL SUFFICIENT LAYER OF COMBINED CUSHION BASE AND WEARING COURSE RESILIENT SURFACING FOR THESE HEIGHTS.
 - ITEMS SHOWN ON THE PLAN THAT DO NOT HAVE A CRITICAL FALL HEIGHT SHALL HAVE A 1" THICK RUBBER BASE COURSE AT A MINIMUM, PLUS THE COLORED WEAR COURSE AS SHOWN.
 - CONTRACTOR SHALL OBTAIN TEST DATA FROM MANUFACTURER VERIFYING DEPTH OF RESILIENT SURFACING REQUIRED TO MEET THE MINIMUM STANDARDS FOR THE CRITICAL FALL HEIGHT, DETERMINED BY THE PLAY EQUIPMENT MANUFACTURER.
 - CONTRACTOR SHALL SUPPLY ALL TEST DATA TO THE DISTRICT OR THE DISTRICT'S AUTHORIZED REPRESENTATIVE FOR REVIEW PRIOR TO INSTALLATION.
 - THICKNESS OF CUSHIONED SEAMLESS FLOORING SYSTEM VARIES PER MANUFACTURER'S DETERMINATION.
 - SEE CONSTRUCTION PLANS FOR COLOR.

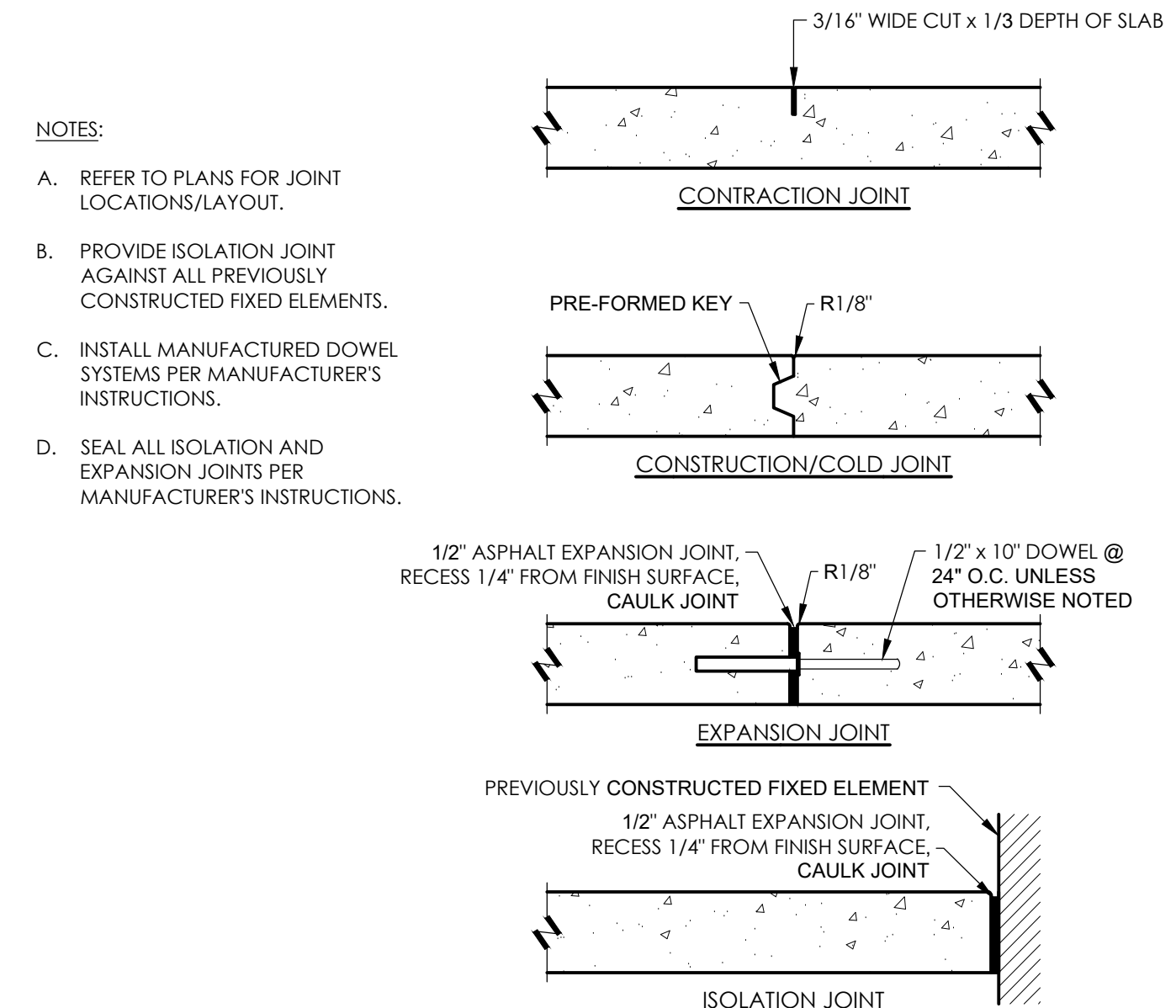
B PROTECTIVE RUBBER SURFACING
3/4" = 1'-0"

321823-15



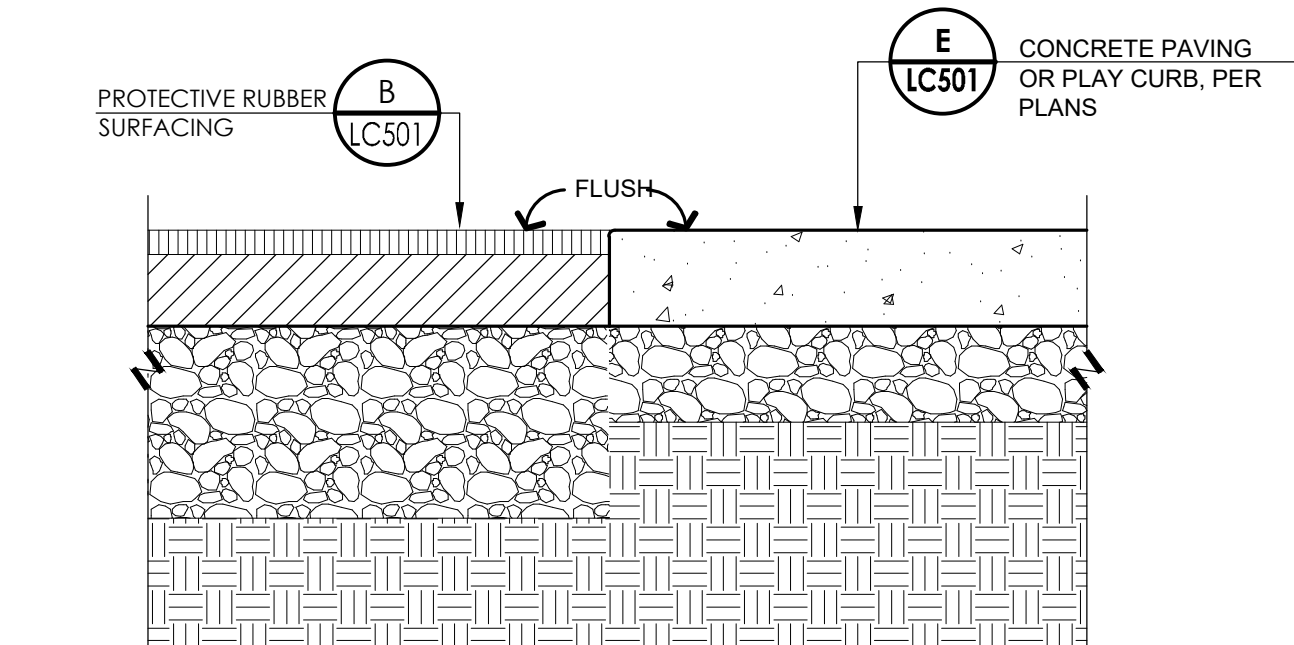
J STEEL EDGING
3" = 1'-0"

321720-24



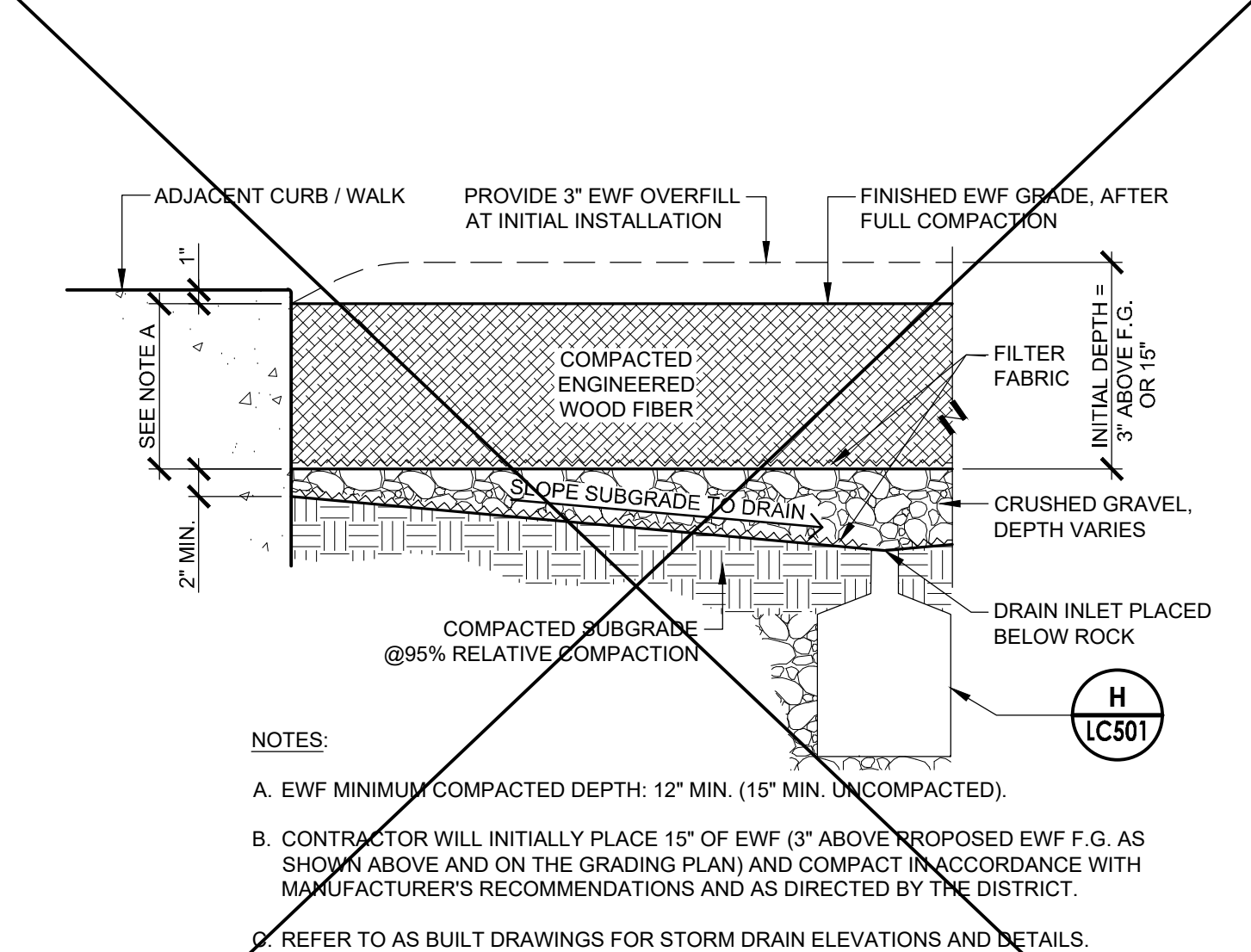
G CONCRETE JOINTS
1 1/2" = 1'-0"

321313.14-19



D RUBBER TO CONCRETE PAVING
1 1/2" = 1'-0"

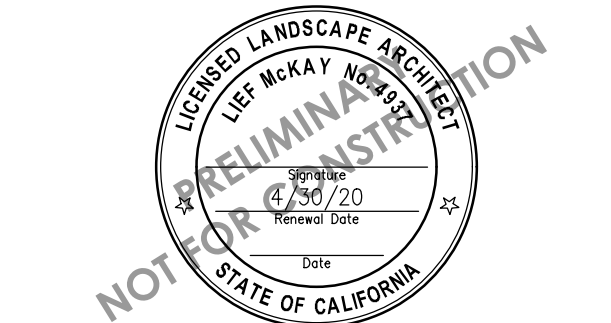
321816.13-57



- NOTES:
- EWF MINIMUM COMPACTED DEPTH: 12" MIN. (15" MIN. UNCOMPACTED).
 - CONTRACTOR WILL INITIALLY PLACE 15" OF EWF (3" ABOVE PROPOSED EWF F.G. AS SHOWN ABOVE AND ON THE GRADING PLAN) AND COMPACT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS DIRECTED BY THE DISTRICT.
 - REFER TO AS BUILT DRAWINGS FOR STORM DRAIN ELEVATIONS AND DETAILS.

A ENGINEERED WOOD FIBER
1" = 1'-0"

321816.23-25



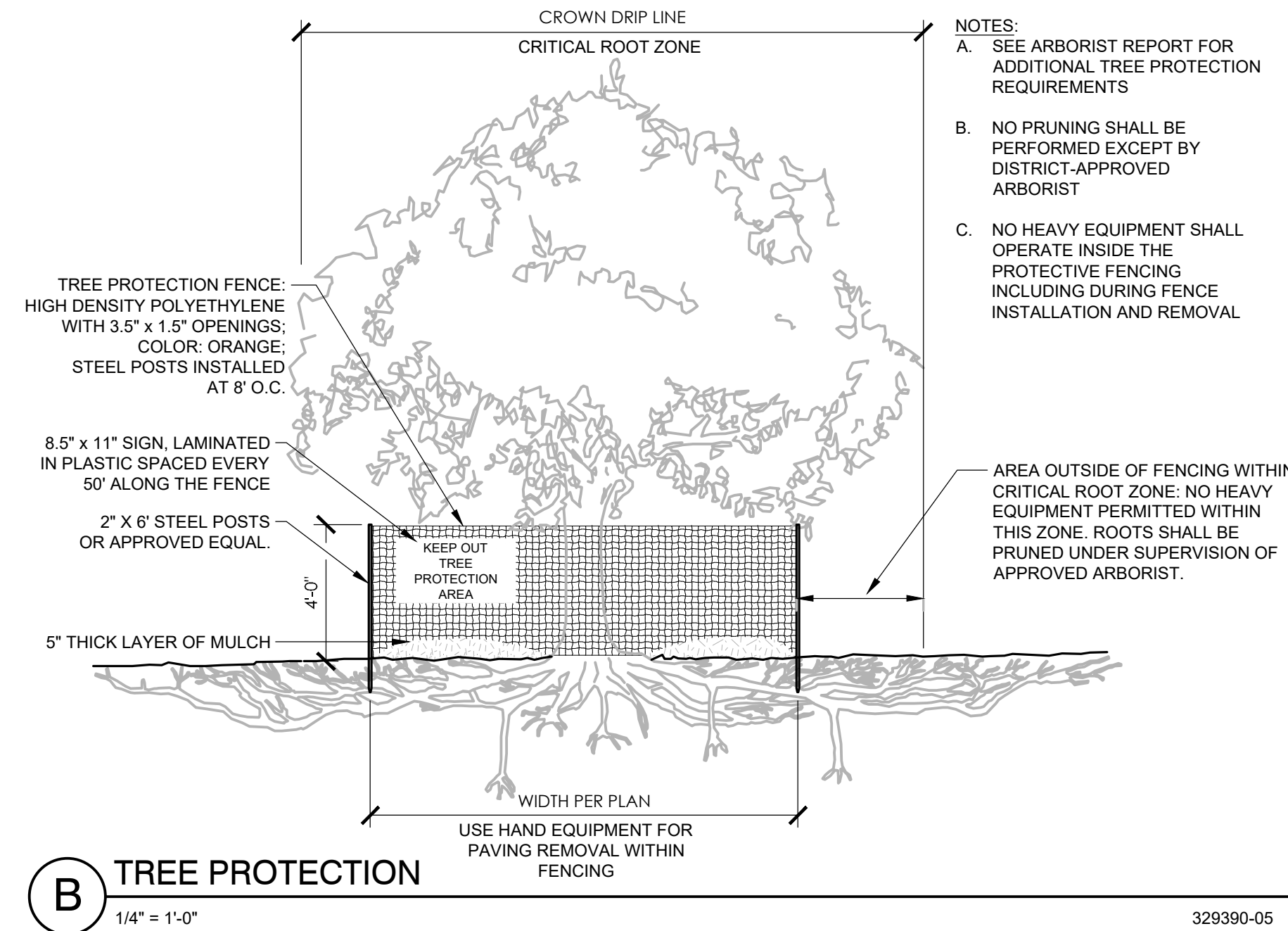
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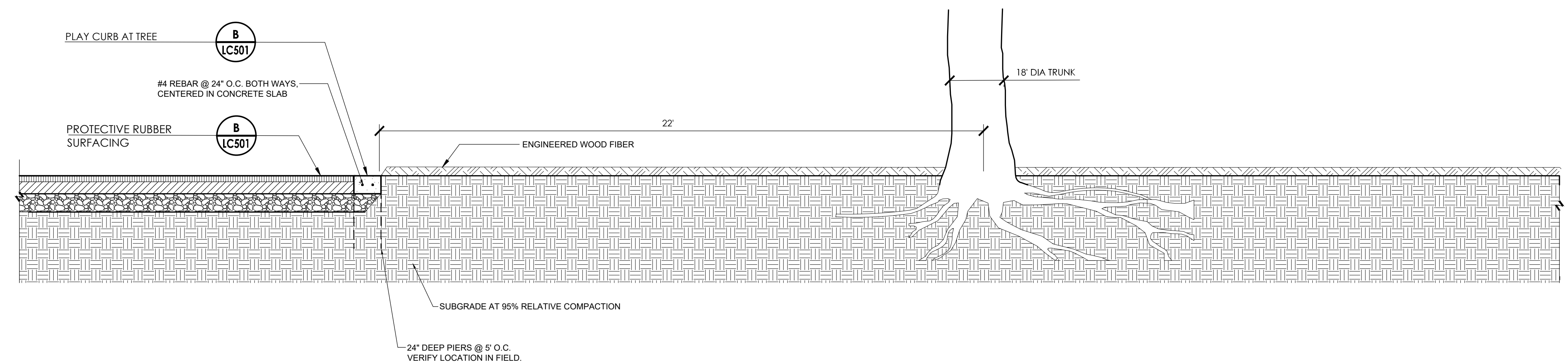
SUNSET PARK PLAYGROUND
1055 Geneva Street, Livermore, CA 94550
CONSTRUCTION DETAILS

NO.	REVISION	DATE
△		
△		
△		
△		
△		

PROJECT MANAGER JULIAN SIMEONI	
DRAWN BY XX	CHECKED BY XX
DATE FEBRUARY 26, 2019	
PROJECT NUMBER 1317-01-RC18	
SHEET LC502	



C BIORETENTION SWALE
1/4" = 1'-0" 32 93-10



A SURFACE ADJACENT TO EXISTING TREE
1/2" = 1'-0" 9908-11

SQ14M-P6, Logan Park, El Paso, TX
Ref. File No. 4916



SHADE STRUCTURE
ICON SHELTER SYSTEMS INC
MODEL # IC-CUST SQUARE SHELTER SQ20-9M-P6



PICNIC TABLE
DUMOR - 298-60-HS (OR 2HS FOR ACCESSIBLE)



BENCH SEAT
VICTOR STANLEY - RBF-28-6'

SUNSET PARK PLAYGROUND

IMAGES OF SITE FURNISHINGS

LIVERMORE, CA.

MARCH 15, 2019

Division 11 - Equipment

Section 11 68 13 - Playground Equipment

SECTION INCLUDES

- Playground layout (staking).
- Manufactured playground equipment.
- Concrete play features, including both shop manufactured and site built elements.
- Custom playground structures.
- Location of each item of playground equipment is indicated on drawings.

RELATED REQUIREMENTS

- Section 03 30 00 - Cast-in-Place Concrete: Footings for playground equipment.
- Section 32 18 16.13 - Playground Protective Surfacing: Protective surfacing in playground area.

PLAYGROUND EQUIPMENT - GENERAL

Design Assumptions: Because the safety of the playground depends on strict conformance to the design criteria, this information is provided for Contractor's information.

Mount equipment on concrete footings, unless otherwise indicated.

Playground protective surfacing constitutes a resilient layer installed over a subbase (non-resilient) that is installed over subgrade; top of footings and anchorage devices is to be covered by full depth of resilient portion of protective surfacing.

Unless otherwise noted in the Drawings, footings shall be per the manufacturer's details, and shall be included in Contractor's scope of work at no extra cost to the District.

Provide supports as required to mount equipment at proper height above finish and sub-grades to allow installation of sufficient depth of protective surfacing; portion of support below top of surfacing must conform to specified requirements for equipment.

Paint portion of support that is intended to be installed below top surface of protective surfacing a different color, or mark in other permanent way, so that installers and maintainers of protective surfacing can easily determine whether sufficient depth has been installed.

Adhere manufacturer's label for each equipment item stating age group that equipment was designed for, manufacturer identification, and warning labels in accordance with ASTM F1487.

If not specified within Manufacturer's quote, Landscape Architect to select all play equipment colors.

MANUFACTURED PLAYGROUND EQUIPMENT

Manufacturer: Berliner - www.berliner-playequipment.com/us/

Contact/Sales Representative: David Yosso, SPEC, (650)8635006

Quote Reference TBD

Quote number represents multiple items, as described below.

Play equipment colors dictated by Manufacturer's quote number.

Play Components (model number in parentheses where applicable); quantities per Drawings:

- Tower/Triitopia/Terranos Combi as per drawing USP.03289-1 -11/06/2018 including
 - Modified Tower.03
 - Chessboard Bridge
 - Transfer Net
 - Harp Nets (x3)

Railing Ropes (x2)
Sculptura .02
Sway Bridge
Modified Triitopia .04
H.O.H Ladder
9' Plastic Slide with transparent panels.
8' Plastic Slide.
Custom Berliner 2-5 Structure by SpecPlay to include:
Modified Spoo.M.01 (Greenville Style) incl 3' Fast Lane Slide
O'Tannebaum 2.5
Double Palmetto Saucer
Eddie.04

Manufacturer: Lappset - www.lappset.com

Contact/Sales Representative: David Yosso, SPEC, (650)8635006

Play Components:

Flora Clover Steppers Item (#175560)
Flora Cone Steppers Item (#175561)
Flora Troll's Balance Beam (#175530)
Flora Goblins Track (#175535)
Flora Forest House (#175582)
Double Bay Swing with 4 Belt Seats

MATERIALS

Steel Pipe and Tube: Conforms to ASTM A135/A135M, ASTM A500/A500M, or ASTM A513/A513M; hot-dipped galvanized and free of excess weld and spatter.

Extruded Aluminum: ASTM B221 or ASTM B221M, Alloy 6061, 6062, or 6063.

Hardware: Provide without hazardous protrusions, corners, or finishes, and that require tools for removal after installation; countersunk fasteners are preferred.

Bearings: Self lubricating.

Boards and Timbers: Free of holes, cracks, and loose knots; do not use wood or wood coatings that contain pesticides; do not utilize used lumber.

Division 13 - Special Construction

Section 13 30 00 - Pre-Fabricated Structures

SECTION INCLUDES

Manufacturer-engineered, shop-fabricated shade structures.

RELATED REQUIREMENTS

Section 03 30 00 - Cast-in-Place Concrete.

Section 32 13 13 - Concrete Paving.

SYSTEM DESCRIPTION

The structure shall be a pre-engineered package and shall be shipped as a pre-cut (excluding standing seam roof panels) and pre-fabricated package that shall include the structural framing members, roof panels, fasteners and roof trim as well as job specific installation instructions. The structure will be shipped in an un-assembled package for ease of shipment.

PRE-FABRICATED SHADE STRUCTURE

Shade Shelter 1 - Manufacturer: Icon Shelter Systems, Inc. Contact Spencer Lane (530) 244-6116.

Model: Square SQ20TM-P6.

Dimensions: Refer to drawings.

Components: Refer to drawings.

Color: Submit actual color samples for selection by Landscape Architect.

Shade Shelter 2 - Manufacturer: Icon Shelter Systems, Inc. Contact Spencer Lane (530) 244-6116.

Model: Square SQ15TM-P6.

Dimensions: Refer to drawings.

Components: Refer to drawings.

Color: Submit actual color samples for selection by Landscape Architect.

Division 32 - Exterior Improvements

Section 32 11 23 - Aggregate Base Courses

MATERIALS

Class 2 Aggregate Base conforming to State of California Highway Department standard.
3/4 inch crushed washed aggregate.

Section 32 13 13 - Concrete Paving

FORM MATERIALS

Form Materials: As specified in Section 03 10 00, conform to ACI 301.

REINFORCEMENT

Reinforcing Steel and Welded Wire Reinforcement: Types specified in Section 03 20 00.
Dowels: ASTM A615/A615M, Grade 40 - 40,000 psi yield strength; deformed billet steel bars; unfinished finish.

CONCRETE MATERIALS

Obtain cementitious materials from same source throughout.
Cement: ASTM C150/C150M, Normal - Type I Portland cement, gray color.
Fly Ash: ASTM C618, Class C or F.
Water: Clean, and not detrimental to concrete.

CONCRETE MIX DESIGN

Proportioning Normal Weight Concrete: Comply with ACI 211.1 recommendations.

Section 32 16 00 - Stabilized Gravel Paving

Section 32 18 16.13 - Playground Protective Surfacing

MATERIALS

Poured-In-Place Membrane Surfacing: Weather-resistant wear layer over impact attenuating substrate over aggregate subbase.
Artificial Grass Surfacing: Artificial grass layer over impact attenuating substrate over rigid subbase.
Poured-In-Place Bonded Rubber Permeable Surfacing: Shredded rubber bonded with polyurethane adhesive, allowing water penetration, over aggregate subbase.
Geotextile Fabric: Nonwoven polypropylene sheet.

Section 32 33 00 - Site Furnishings

Tables

Table - Type 1.

Manufacturer: DuMor, or Approved Equal
Model: 298-60-HS
Description: Table with two benches
Size: 6'
Options:
Color: TBD color / powdercoat
Mounting: Surface mount on concrete, embedment mount in mulch or gravel.

Table - Type 2.

Manufacturer: DuMor, or Approved Equal

Model: 298-60-HS (ADA)

Description: Table with two benches (ADA)

Size: 6'

Options:

Color: TBD color / powdercoat

Mounting: Surface mount on concrete, embedment mount in mulch or gravel.

Bench

Bench - Type 1.

Manufacturer: Victor Stanley, or Approved equal

Model: RBF-28-6'

Description: Metal bench with back and armrests.

Size: 6ft long

Options:

Color: TBD color / powercoat.

Mounting: Surface mount on concrete.

ITEM #	PROJECT #	PROJECT DESCRIPTION	PROJECT MANAGER	CURRENT PROJECT STATUS:	NEXT PROCESS REQUIRED:
			PRIORITY A PROJECTS		
1	508	Four Parks Playground Renovations:	Bob Tanaka	Wet weather suspended project until mid-month. Earthwork in process at all parks except Jane Addams.	Earthwork continues followed by drainage and improvements.
2	426	May Nissen			At May Nissen, obtain permission to temporarily access northern property to allow park users to reach the sport fields from the parking lot.
3	706	Big Trees			
4	327	Pleasure Island			
		Jane Addams			
5	446	Sycamore Grove Extension – Arroyo Del Valle Trail Bridge Connection	Pat Sotelo/Bruce Aizawa Tri-Valley Conservancy	Tri Valley Conservancy posted a Request for Bids Friday, March 15, 2019.	Tri Valley Conservancy will hold the bid opening Wednesday, April 17, 2019, at 5PM.
6	603	Sycamore Grove – Arroyo Del Valle Trail Renovation	Pat Sotelo	PROJECT COMPLETED	PROJECT COMPLETED
7	209	Ravenswood Upgrade(s)	Fred Haldeman	Porch repairs are in progress. Work is expected to go past the completion date of March 29th. Accommodations have been made regarding the schedule change.	
8	432	ADA Projects	Pat Sotelo	Restroom Facility Completed: Electrical connection is still needed.	Liberty Energy is working with the Forest Service to obtain a permit to install utility pole(s) and a 200-amp line to power the restroom facility. Installation of the line is scheduled for late spring, 2019.

9	905	Bill Payne Park Master Plan	Patricia Lord	PLAN COMPLETED: On December 12, 2018 the Board of Directors adopted the Final Initial Study and Mitigated Negative Declaration, and the Bill Payne Park Master Plan.	At this time, the District has no source of funding to implement a project of this magnitude with cost estimates at \$18.5 M.
10	726	RLCC Security and Alarm System	Fred Haldeman	No change from last month.	
11	729	Asset Management High Priority Projects	Bruce Aizawa	(See Projects Listed Below)	(See Projects Listed Below)
	729a	Rodeo Stadium Infrastructure Improvements	Fred Haldeman	Planning to post project/bid opportunity by June 2019.	Work is scheduled to begin next fiscal year 2019-2020.
	729b	May Nissen Pool Renovation	Rebecca Sermenio	Project scheduled to begin during winter 2019.	
	729c	Tex Spruiell Park Renovation	Bob Tanaka	Project on hold.	
	729d	Energy Efficiency Measures	Fred Haldeman	Work is progressing on schedule. Expected completion for summer 2019.	
12	455	Shade Structures at Various Parks	Tom Doyle	The contracts have been assembled for the Robertson Park and Maitland Henry shade structures.	Work to be completed by June 2019.
13	442	RLCC Aquatics Pool Deck Repair	Terracon	Plasterwork is complete in both pools.	Deck details are currently being worked on.

14	719	Sunset Park Playground	Patricia Lord	RRM has submitted site furnishing image boards, outline specifications, and 75% plan/drawing set for review.	Images/information to be presented/shared at Facilities Committee Meeting, March 28 th .
15	723	Patterson Ranch Trail	Pat Sotelo	WRA is conducting the environmental review of the proposed trail over Zone 7's Patterson Ranch property. The Administrative Draft of the Initial Study/Mitigated Negative Declaration has been submitted to LARPD.	The final environmental review is scheduled for completion in spring 2019. In April 2019 the Volunteers for Outdoor California will build a trail in the eastern extension of Sycamore Grove. This trail will also be usable as a connector trail to the Patterson Ranch property.
16	720	Robertson Park Synthetic Turf	Tom Doyle	PROJECT COMPLETED	PROJECT COMPLETED
17	538	Bill Clark Park	Bob Tanaka	Access into park does not conform to ADA and two optional design plans were submitted. Both options will be included in the design development plans that are now underway.	Submit design development plans that will include new play equipment, accessible entry into park, and miscellaneous site improvements to eliminate safety concerns such as uplifting pavement.
18	516	Barn Renovations	Fred Haldeman	Both proposals have been received from Paige and Turnbull. Under staff review at this time.	
19	806	Altamont Creek Park Playground	LVJUSD	PROJECT COMPLETED	PROJECT COMPLETED