SAN MATEO, CALIFORNIA

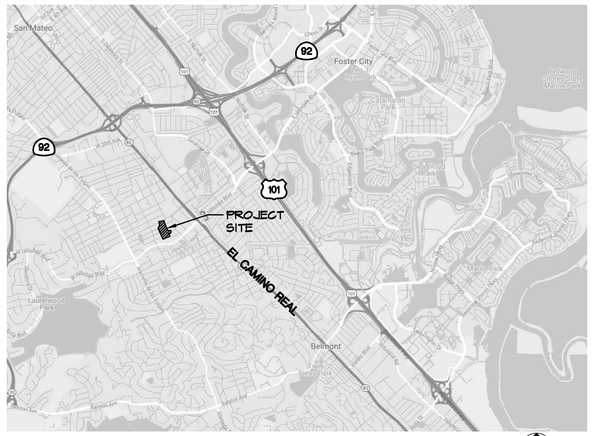
EAST HILLSDALE PARK IMPROVEMENTS

123 31ST AVE., SAN MATEO, CA 94403

100% SUBMITTAL

MAY 15, 2024

VICINITY MAP

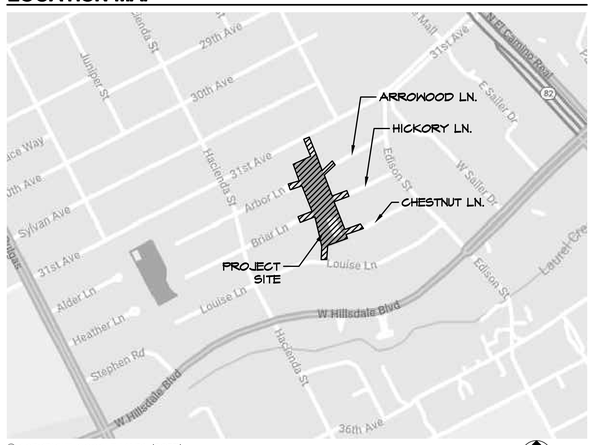


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N.T.S.

NORTH

LOCATION MAP



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N.T.S.

NORTH

GENERAL NOTES

1. **COMPOSITE BASE SHEET:** THE PROPOSED IMPROVEMENTS SHOWN ON THESE DRAWINGS ARE SUPERIMPOSED ON A BASE SHEET. THIS BASE SHEET IS COMPILED FROM THE TOPOGRAPHIC SURVEY, OTHER ARCHITECTURAL AND/OR ENGINEERING DOCUMENTS, AND OTHER DATA AS MADE AVAILABLE TO THE LANDSCAPE ARCHITECT. THIS BASE SHEET INFORMATION IS SHOWN IN HALF TONE ON THE PLANS. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR OTHER ERRORS ON THESE DOCUMENTS. THE COMPOSITE BASE SHEET IS PROVIDED AS AN AID ONLY AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS AND INCORPORATING/INTEGRATING ALL CONSTRUCTION AS REQUIRED TO ACCOMMODATE SAME.

   THE BASE SHEET SOURCE FOR THESE DRAWINGS IS:

   TOPOGRAPHIC SURVEY, EAST HILLSDALE PARK, PROJECT #195-014, PREPARED BY WILSEY HAM ENGINEERING, SURVEYING & PLANNING, 5/24/2022, (650) 349-2151

2. **UTILITIES:** PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND REQUESTING A VISUAL VERIFICATION OF THE LOCATIONS OF THEIR UNDERGROUND FACILITIES. MOST UTILITY COMPANIES ARE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE-CALL PROGRAM. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF THE U.S.A. 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 642-2444. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING SURFACE.

   THE CONTRACTOR IS CAUTIONED THAT ONLY EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATION, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. HOWEVER, THE CONSULTANT CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH ARE NOT SHOWN ON THESE DRAWINGS.

PROJECT DIRECTORY

OWNER/CITY
CITY OF SAN MATEO
CONTACT: KING LEONG
330 W. 20TH AVE.
SAN MATEO, CA 94403
(650) 522-7542

CIVIL ENGINEER
WILSEY HAM
CONTACT: RANDAL KREJCAREK
3130 LA SELVA STREET, SUIT 100
SAN MATEO, CA 94403
(650) 286-8417

ELECTRICAL ENGINEER
SACRAMENTO ENGINEERING CONSULTANTS
CONTACT: PHILIP BEJARANO
10555 OLD PLACERVILLE RD.
SACRAMENTO, CA 95827
(916) 368-4468

LANDSCAPE ARCHITECT
CALANDER ASSOCIATES
CONTACT: DAVID RUBIN
1633 BAYSHORE HIGHWAY, SUITE 133
BURLINGAME, CA 94010
(650) 375-1313

PROJECT DATA

APN: 039450110
ZONING: OPEN SPACE
LOT SIZE: 91,558 SF

SHEET SCHEDULE

SHEET #	SHEET TITLE
L1.0	COVER SHEET
L1.1	CONSTRUCTION BMP PLAN
L2.0-L2.1	EXISTING CONDITIONS PLAN
L3.0-L3.1	CONSTRUCTION STAGING PLAN
L4.0-L4.1	DEMOLITION AND TREE PROTECTION PLAN
C1.0-C1.1	GRADING PLAN
C2.0-C2.1	UTILITY PLAN
C3.0-C3.1	EROSION CONTROL PLAN
C4.0-C4.1	CIVIL DETAILS
L5.0-L5.1	HORIZONTAL CONTROL PLAN
L6.0-L6.1	SITE CONSTRUCTION PLAN
L7.0-L7.1	IRRIGATION PLAN
L7.2	LANDSCAPE DOCUMENTATION
L7.3-L7.4	IRRIGATION AS-BUILTS
L8.0-L8.1	PLANTING PLAN
L9.0-L9.2	LANDSCAPE DETAILS
ES1	SCHEDULE, LEGEND
ES2	ELECTRICAL SITE PLAN
ES3	PHOTOMETRIC PLAN
A1.0	PLAYGROUND ACCESSIBILITY PLAN

Department of Community Development
Building Division - City of San Mateo
APPROVED

This set of plans and specifications MUST be at the job site during construction. It is unlawful to alter without approval from the Building Official.

The stamping of this plan and specifications SHALL NOT be held to permit an approval of the violation of any provisions of any City Ordinance or State Law.

The City of San Mateo's Building Division only reviews the Site, Facility and Building Accessibility per the California Building Code. A full review of these plans for compliance with the Americans with Disabilities Act is beyond the scope of the California Building Code and therefore is not reviewed by the Building Division.

PERMIT NO: BD-2024-292978
APN: 039450110
ADDRESS: 123 31ST AVE
PERMIT TYPE:
BY: &[User] LD
DATE: &[Date] &[Time] 6/13/24
WELO SHORT FORM: ☐
WELO LONG FORM: ☐

USE OF DOCUMENTS

A. User acknowledges Callander Associates Landscape Architecture, Inc.'s (Callander Associates) construction documents, including electronic files, reports, plans, specifications, or other construction documents prepared by Callander Associates as instruments of professional service and that these instruments are intended only for use on this project, and not any future phases or for other uses. The User shall not reuse or make any modification to the construction documents without the prior written authorization of Callander Associates. In the event the User, the User's contractors or subcontractors, or anyone for whom the User is legally liable, makes or permits to be made any changes to the construction documents without obtaining Callander Associates' prior written consent, the User shall assume full responsibility for the results of such changes.

B. The User agrees, to indemnify and hold harmless Callander Associates, its officers, directors, employees and subconsultants (collectively Callander Associates) against any damages, liabilities or costs, including reasonable attorneys' fees and defense costs, arising from or allegedly arising from or in any way connected with the unauthorized reuse or modification of the construction documents by the User, or any person or entity that acquires or obtains the construction documents from or through the User, without the written authorization of Callander Associates.

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REVISION	DATE
1 Building Resubmittal	05/15/24

LA LICENSED LANDSCAPE ARCHITECT
David C. Rubin
Signature
May 31, 2025
Renewal Date
May 15, 2024
Date
STATE OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS
SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
COVER SHEET

SHEET
L1.0

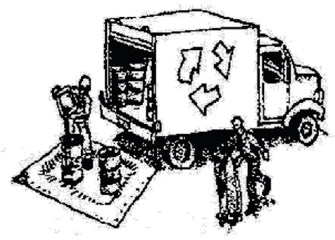
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SAN MATEO COUNTYWIDE
Water Pollution Prevention Program
Clean Water. Healthy Community.

Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Materials & Waste Management



Non-Hazardous Materials

- ❑ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- ❑ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ❑ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ❑ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ❑ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ❑ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ❑ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ❑ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ❑ Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ❑ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ❑ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ❑ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ❑ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control



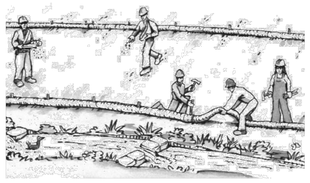
Maintenance and Parking

- ❑ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ❑ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ❑ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ❑ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ❑ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

Spill Prevention and Control

- ❑ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ❑ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ❑ Clean up spills or leaks immediately and dispose of cleanup materials properly.
- ❑ Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ❑ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ❑ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ❑ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthmoving

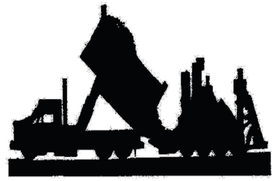


- ❑ Schedule grading and excavation work during dry weather.
- ❑ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ❑ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- ❑ Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- ❑ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- ❑ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
  - Unusual soil conditions, discoloration, or odor.
  - Abandoned underground tanks.
  - Abandoned wells
  - Buried barrels, debris, or trash.

Paving/Asphalt Work

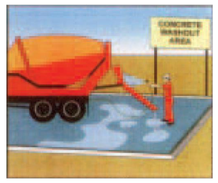


- ❑ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ❑ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ❑ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- ❑ Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

- ❑ Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ❑ Shovel, abosorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ❑ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar Application



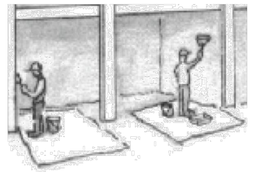
- ❑ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- ❑ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- ❑ When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

Landscaping



- ❑ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- ❑ Stack bagged material on pallets and under cover.
- ❑ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

Painting & Paint Removal



Painting Cleanup and Removal

- ❑ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- ❑ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- ❑ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ❑ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- ❑ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state-certified contractor.

Dewatering



- ❑ Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- ❑ Divert run-on water from offsite away from all disturbed areas.
- ❑ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ❑ In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

Storm drain polluters may be liable for fines of up to $10,000 per day!

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REVISION	DATE
1 Building Resubmittal	05/15/24

LA LICENSED LANDSCAPE ARCHITECT
Lloyd C. Zola
May 31, 2025
Renewal Date
May 15, 2024
Date
STATE OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS
SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
CONSTRUCTION BMP PLAN

SHEET
L1.1

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EXISTING CONDITIONS LEGEND AND ABBREVIATIONS

- ADJOINING PROPERTY LINE
- PROPERTY LINE
- CENTER LINE OF R.O.W.
- EDGE OF PAVEMENT
- SS —— SS — SANITARY SEWER PER RECORD
- SD —— SD — STORM DRAIN PER RECORD
- SD —— SD — STORM DRAIN LINE PER
- POSSIBLE STUB
- BACK FLOW PREVENTER
- CATCH BASIN
- COMM BOX
- GUARD POST
- GUY ANCHOR
- ELECTRIC BOX
- JOINT POLE
- IRRIGATION BOX
- IRRIGATION CONTROLLER
- IRRIGATION SPRINKLER HEAD
- LIGHT
- SANITARY SEWER MANHOLE
- SIGN
- TREE
- WATER METER
- WATER VALVE

ABBREVIATIONS:

AC	ASPHALTIC CONCRETE
AC,+/-	ACRES MORE OR LESS
APN:	ASSESSORS PARCEL NUMBER
BWK	BACK OF WALK
BRC	BACK ROLLED CURB
CO	CLEAN OUT
COM	COMMUNICATION
CTL	CONTROL
DIA	DIAMETER
DOC	DOCUMENT
E	ELECTRIC
EL	ELEVATION
EP	EDGE OF PAVEMENT
FC	FACE OF CURB
FNC	FENCE
GP	GUARD POST
IR	IRRIGATION
LG	LIP OF GUTTER
RSM	RECORDED SUBDIVISION MAP
S.F.+/-	SQUARE FEET, MORE OR LESS
SS	SANITARY SEWER
WM	WATER METER
WV	WATER VAULT

EXISTING CONDITIONS NOTES

UTILITY NOTE:
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON RECORD MAPS PROVIDED BY THE CITY AND ABOVE GROUND VISUAL EVIDENCE, INCLUDING BUT NOT LIMITED TO MANHOLES, INLETS AND VALVES. NO HORIZONTAL UTILITY LOCATING SERVICES, SUCH AS GPR, WERE USED FOR THIS PLAN. THERE MAY BE EXISTING UNDERGROUND UTILITIES THAT ARE NOT SHOWN.

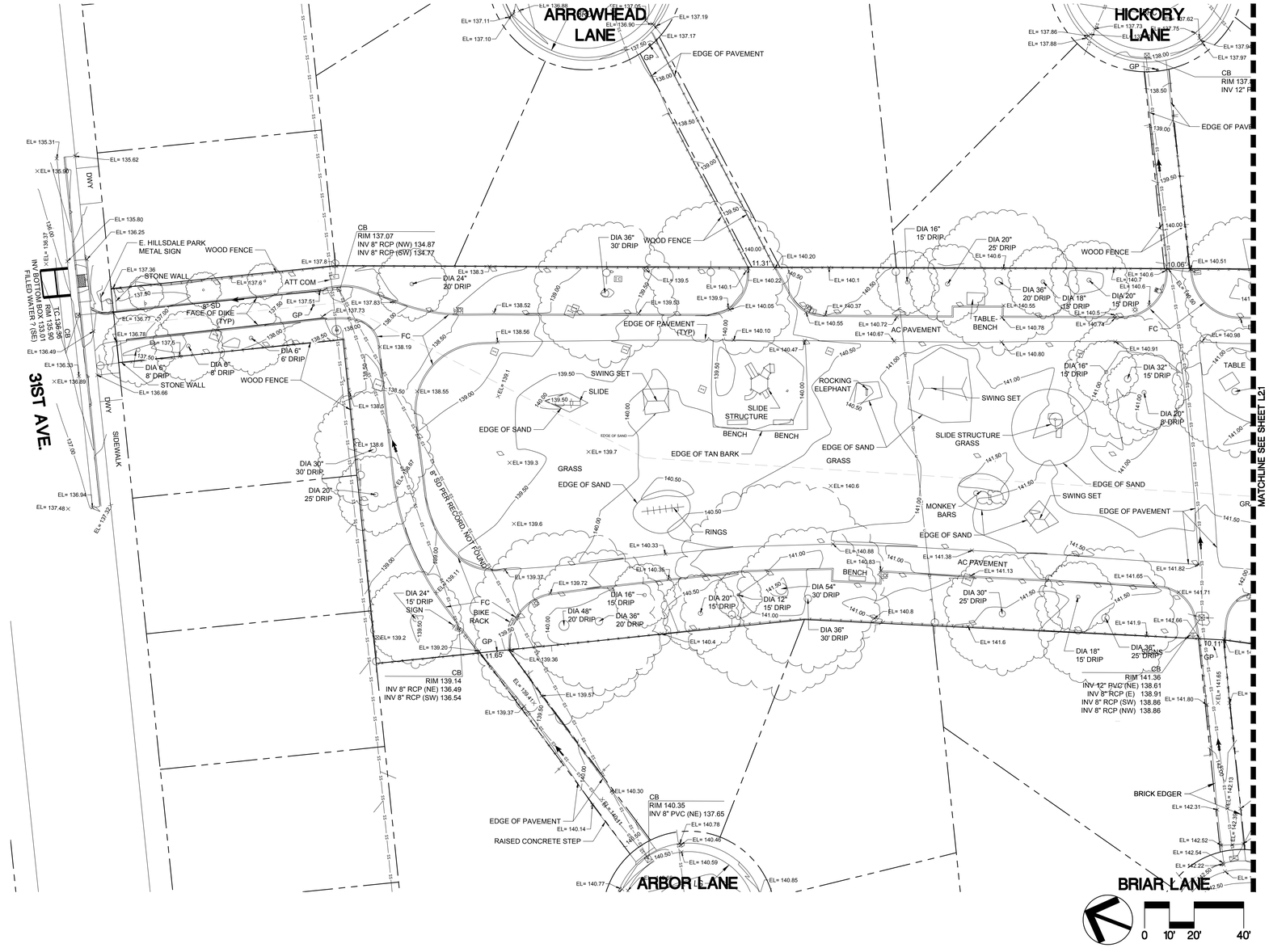
UTILITY NOTE 1:
EXTENT NOT KNOWN, FOUND OF RECORD, OR DISCERNABLE.

UTILITY NOTE 2:
OUTLET NOT KNOWN, FOUND OF RECORD, OR DISCERNABLE.

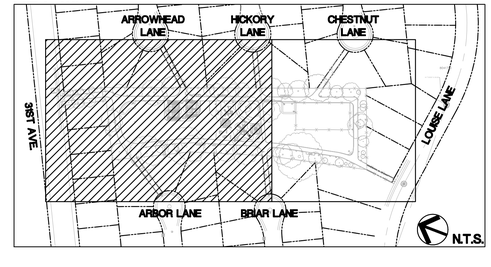
SURVEY NOTE:
THE ORIGINAL SURVEY MONUMENTS AS SHOWN ON 22 RSM 68 HILLSDALE UNIT NO. 1 AND 23 RSM 60 HILLSDALE UNIT NO. 2 WERE SEARCHED FOR AND NOT FOUND THEIR LOCATION IS SHOWN ON THIS MAP WITH THIS SYMBOL

BASIS OF ELEVATION:
THE ELEVATIONS SHOWN HEREON ARE BASED ON CITY BENCHMARK 090-002
EL= 143.234

BASIS OF BEARINGS:
THE BASIS OF BEARINGS OF THIS SURVEY IS NORTH 88° 28' 36" EAST BETWEEN THE FOUND CITY MONUMENTS ON LOUISE LANE AS SHOWN ON MAP 35 RSM 36



KEY MAP



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REVISION	DATE

LANDSCAPE ARCHITECT — Registered Landscape Architect — Mary Callander — Expiration Date: May 31, 2025 — STATE OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

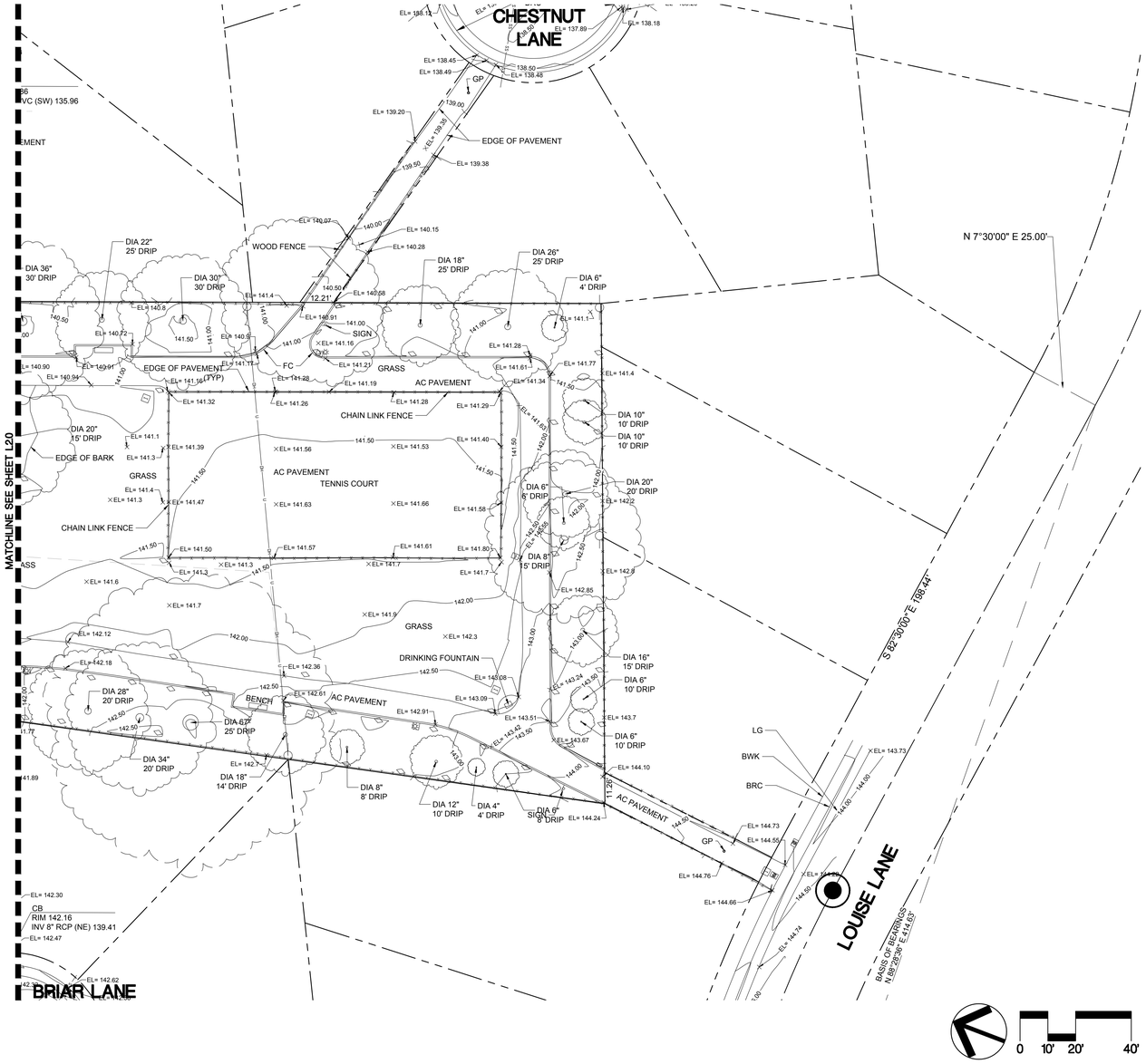
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CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
EXISTING CONDITIONS PLAN

SHEET
L2.0

CITY OF SAN MATEO CALIFORNIA

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www.callanderassociates.com

REVISION	DATE

LA LICENSED LANDSCAPE ARCHITECT
Signature
Mar 31, 2025
Renewal Date
Mar 15, 2004
Date
STATE OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

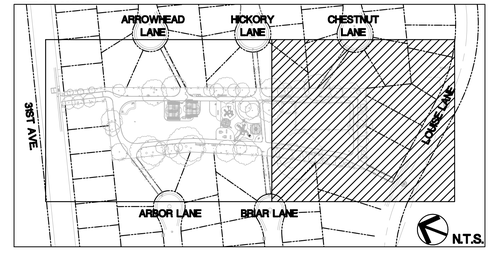
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PROJECT NO: 22039
DRAWN BY: DC/AS
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SCALE: As Shown

SHEET TITLE
EXISTING CONDITIONS PLAN

SHEET
L2.1

KEY MAP



FOR EXISTING CONDITIONS LEGEND, NOTES, AND ABBREVIATIONS, SEE SHEET L2.0

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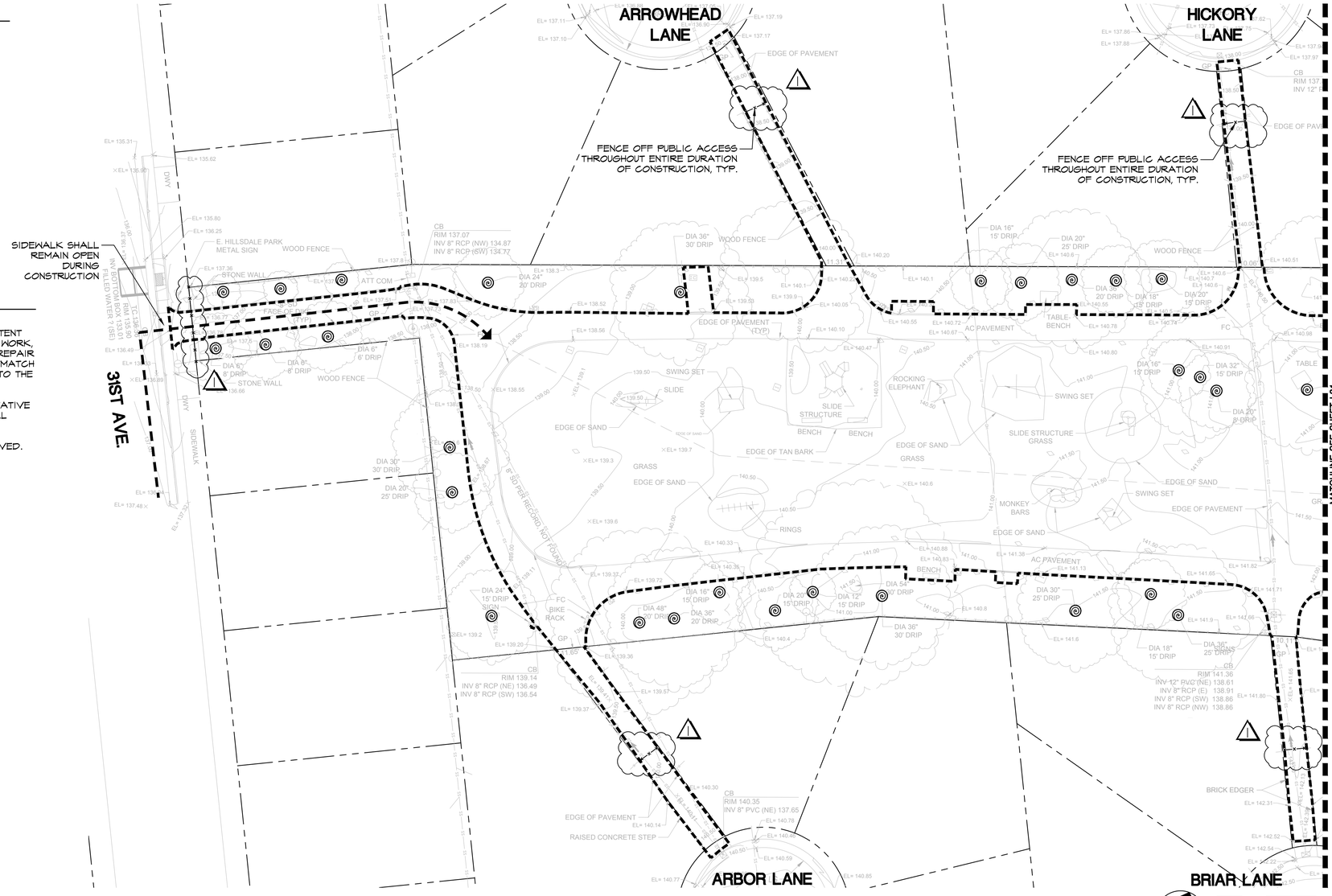
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CONSTRUCTION STAGING LEGEND

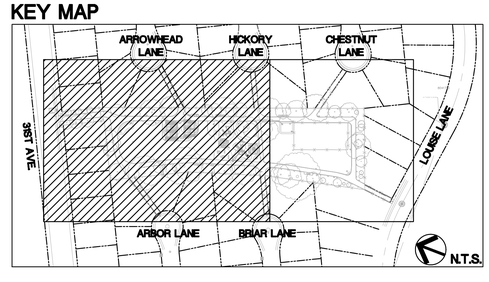
- PHASE 1 - MAIN PARK IMPROVEMENTS LIMIT OF WORK
- CONSTRUCTION FENCING
- CONSTRUCTION ACCESS
- EXISTING TREE TO REMAIN, PROTECT IN PLACE, REFER DEMOLITION PLAN FOR MORE INFORMATION
- PHASE 2 - TENNIS COURT AREA LIMIT OF WORK

CONSTRUCTION STAGING NOTES

1. SITE PRESERVATION AND REPAIR: PROTECT EXISTING SITE CONDITIONS OUTSIDE THE LIMIT OF WORK TO THE GREATEST EXTENT POSSIBLE THROUGHOUT CONSTRUCTION. PRIOR TO COMMENCING WORK, PHOTO DOCUMENT EXISTING CONDITIONS OF ITEMS TO REMAIN. REPAIR ALL DAMAGES TO EXISTING SURFACES AND SITE FEATURES TO MATCH PRE-CONSTRUCTION CONDITIONS AT THE END OF THE PROJECT TO THE SATISFACTION OF THE CITY.
2. IRRIGATION STAKING: COORDINATE WITH THE CITY'S REPRESENTATIVE TO OPERATE ALL EXISTING IRRIGATION VALVES AND STAKE ALL ROTOR LOCATIONS TO ENSURE PROTECTION.
3. STAGING: STAGING IS PERMITTED ON TURF AREAS TO BE REMOVED. PRIOR TO STAGING, TURF AREAS SHALL BE PROTECTED WITH 1" PLYWOOD.



KEY MAP



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REVISION	DATE
1 Building Resubmittal	05/15/24

LA LICENSED LANDSCAPE ARCHITECT
Signature
May 31, 2005
Renewal Date
May 31, 2024
Date
OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

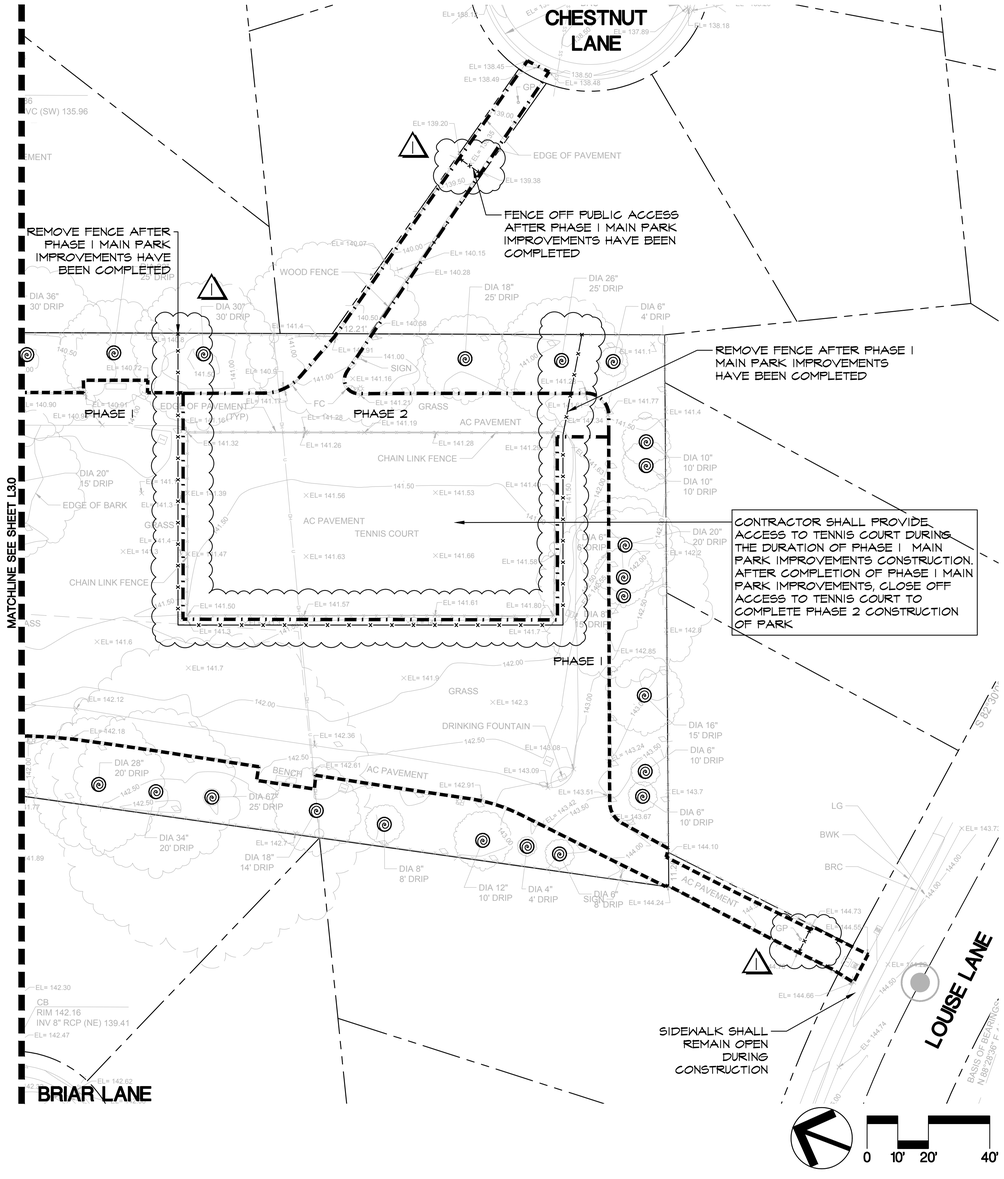
ISSUE	DATE
90% Submittal	02/14/24
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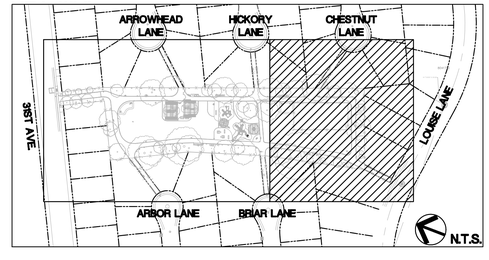
SHEET TITLE
CONSTRUCTION STAGING PLAN

SHEET
L3.0

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KEY MAP



FOR CONSTRUCTION STAGING LEGEND, ABBREVIATIONS, AND NOTES, SEE SHEET L2.0

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Mar 31, 2025
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EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

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SCALE: As Shown

SHEET TITLE
CONSTRUCTION STAGING PLAN

SHEET
L3.1

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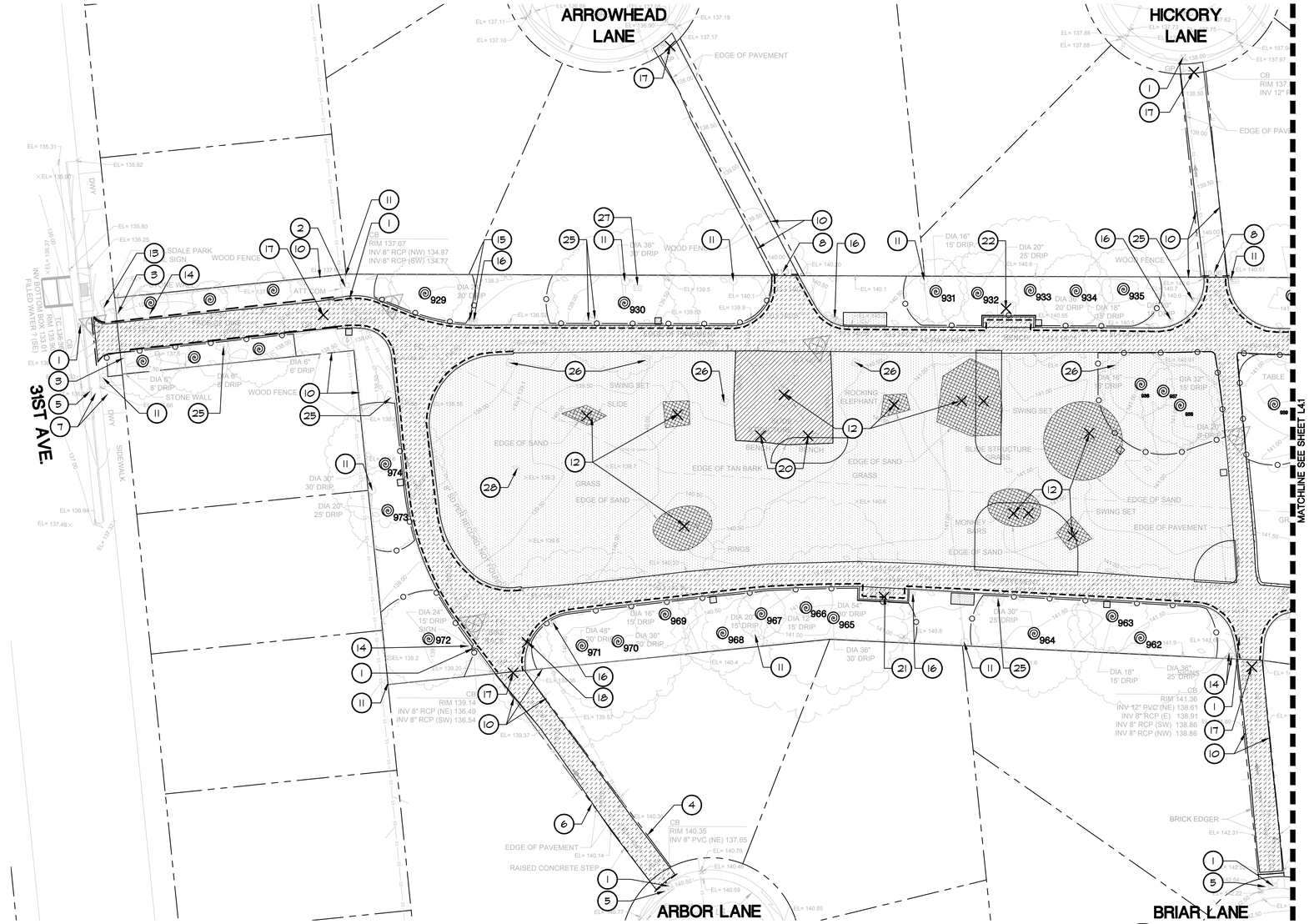
DEMOLITION & TREE PROTECTION LEGEND

	REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT AND BASE ROCK. ASSUME 7 INCH DEPTH AVERAGE.
	CLEAR AND GRUB.
	REMOVE AND DISPOSE OF SAND, ASSUME 12 INCH DEPTH
	REMOVE AND DISPOSE OF TAN BARK, ASSUME 6 INCH DEPTH
③	EXISTING TREE TO REMAIN, PROTECT IN PLACE. TREE NUMBER. REFER TO ARBORIST REPORT WITHIN SPECS APPENDIX D. ⚠
X	REMOVE AND DISPOSE OF ITEM
—o—o—	TREE PROTECTION FENCE
— · — · —	SAWCUT
- - - - - - - -	CONCRETE BAND, T.B.R.
— — — —	ASPHALT CURB, T.B.R.
(X)	DISPOSITION ITEM
T.R.	TO REMAIN
T.B.R.	TO BE REMOVED

DEMOLITION & TREE PROTECTION NOTES

1. CONTRACTOR SHALL FOLLOW REQUIREMENTS WITHIN THE TPZ/DRIPLINE ZONES SET FORTH BY THESE NOTES AND IN THE ARBORIST REPORT.
2. A 6" LAYER OF COARSE MULCH OR WOODCHIPS IS TO BE PLACED BENEATH THE DRIPLINE OF THE PROTECTED TREES EXCLUDING PROPOSED IMPROVEMENTS AREAS. MULCH IS TO BE KEPT 12" FROM THE TRUNK AND WITHIN TP FENCING.
3. A PROTECTIVE BARRIER OF 6' CHAIN LINK FENCING SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE FENCING CAN BE MOVED WITHIN THE DRIPLINE IF AUTHORIZED BY THE PROJECT ARBORIST OR CITY ARBORIST BUT NOT CLOSER THAN 6' FROM THE TRUNK OF ANY TREE. FENCE POSTS SHALL BE 2" IN DIAMETER AND SHALL BE SECURED INTO THE GROUND OR WITH CEMENT BLOCKS. THE DISTANCE BETWEEN POSTS SHALL NOT BE MORE THAN 10'. THE CONTRACTOR MAY NOT MOVE THE FENCE WITHOUT AUTHORIZATION FROM THE PROJECT ARBORIST OR CITY ARBORIST.
4. TREE BRANCHES 2" AND SMALLER MAY BE PRUNED AND REMOVED TO ALLOW FOR CONSTRUCTION VEHICLE ACCESS, AND SHALL ADHERE TO THE LATEST EDITIONS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE Z133 AND A300 STANDARDS. TREE BRANCHES LARGER THAN 2" MUST BE REVIEWED BY THE PROJECT ARBORIST BEFORE REMOVAL.
5. ONLY EXCAVATION BY HAND OR COMPRESSED AIR SHALL BE ALLOWED WITHIN THE DRIPLINE OF TREES UNLESS APPROVED BY THE PROJECT ARBORIST.
6. WHEN A DITCHING MACHINE BEING USED OUTSIDE OF THE DRIPLINE OF TREES ENCOUNTERS ROOTS SMALLER THAN 2", THE WALL OF THE TRENCH ADJACENT TO THE TREES SHALL BE HAND TRIMMED, MAKING CLEAR, CLEAN CUTS THROUGH THE ROOTS. ALL DAMAGED, TORN AND CUT ROOTS SHALL BE GIVEN A CLEAN CUT TO REMOVE RAGGED EDGES, WHICH PROMOTE DECAY. TRENCHES SHALL BE FILLED WITHIN 24 HOURS, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREES SHALL BE KEPT SHADED WITH FOUR LAYERS OF DAMPENED, UNTREATED BURLAP, WETTED AS FREQUENTLY AS NECESSARY TO KEEP THE BURLAP WET. ROOTS 2" OR LARGER, WHEN ENCOUNTERED, SHALL BE REPORTED IMMEDIATELY TO THE PROJECT ARBORIST, WHO WILL DECIDE WHETHER THE CONTRACTOR MAY CUT THE ROOT AS MENTIONED ABOVE OR SHALL EXCAVATE BY HAND OR WITH COMPRESSED AIR UNDER THE ROOT. ROOT IS TO BE PROTECTED WITH DAMPENED BURLAP.
7. ROUTE PIPES OUTSIDE OF THE AREA THAT IS 10 TIMES THE DIAMETER OF A PROTECTED TREE TO AVOID CONFLICT WITH ROOTS, UNLESS APPROVED BY THE PROJECT ARBORIST.
8. WHERE IT IS NOT POSSIBLE TO REROUTE PIPES OR TRENCHES, THE CONTRACTOR SHALL BORE BENEATH THE DRIPLINE OF THE TREE. THE BORING SHALL TAKE PLACE NOT LESS THAN 3' BELOW THE SURFACE OF THE SOIL IN ORDER TO AVOID ENCOUNTERING "FEEDER" ROOTS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUPPLEMENTAL WATER TO THE TREES TO REMAIN IN THE AMOUNT AND FREQUENCY AS DIRECTED BY THE PROJECT ARBORIST.
10. ANY CUT AND FILL WITHIN IN THE DRIPLINE OF ANY TREE SHOULD BE MINIMAL AND REVIEWED BY THE PROJECT ARBORIST PRIOR TO THE START OF THE GRADING.
11. ANY DAMAGE DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPORTED TO THE PROJECT ARBORIST OR CITY ARBORIST WITHIN TWELVE HOURS SO THAT REMEDIAL ACTION CAN BE TAKEN.
12. AN ISA CERTIFIED ARBORIST SHALL BE RETAINED AS THE PROJECT ARBORIST TO MONITOR THE TREE PROTECTION GUIDELINES. THE PROJECT ARBORIST SHALL BE RESPONSIBLE FOR THE PRESERVATION OF THE DESIGNATED TREES. SHOULD THE CONTRACTOR FAIL TO FOLLOW THE TREE PROTECTION GUIDELINES, IT SHALL BE THE RESPONSIBILITY OF THE PROJECT ARBORIST TO REPORT THE MATTER TO THE CITY ARBORIST AS AN ISSUE OF NON-COMPLIANCE.
13. AVOID THE FOLLOWING CONDITIONS. <u>DO NOT:</u>
    - 13.1. ALLOW RUN OFF OF SPILLAGE OR DAMAGING MATERIALS INTO THE AREA BELOW ANY TREE CANOPY.
    - 13.2. STORE MATERIALS, STOCKPILE SOIL, OR PARK OR DRIVE VEHICLES WITHIN THE TPZ.
    - 13.3. CUT, BREAK, SKIN, OR BRUISE ROOTS, BRANCHES, OR TRUNKS WITHOUT FIRST OBTAINING AUTHORIZATION FROM THE PROJECT ARBORIST.
    - 13.4. ALLOW FIRES UNDER AND ADJACENT TO TREES.
    - 13.5. DISCHARGE EXHAUST INTO FOLIAGE.
    - 13.6. SECURE CABLE, CHAIN, OR ROPE TO TREES OR SHRUBS.
    - 13.7. TRENCH, DIG, OR OTHERWISE EXCAVATE WITHIN THE DRIPLINE OR TPZ OF THE TREE(S) WITHOUT FIRST OBTAINING AUTHORIZATION FROM THE PROJECT ARBORIST.
    - 13.8. APPLY SOIL STERILANTS UNDER PAVEMENT NEAR EXISTING TREES.
14. <u>MONTHLY INSPECTIONS:</u> IT IS REQUIRED THAT THE PROJECT ARBORIST BE ON SITE DURING ANY DEMOLITION AND GRADING ACTIVITIES WITHIN THE DRIPLINE OF ANY TREE. 48 HOUR NOTICE IS REQUIRED FOR ANY SITE REVIEWS.

    TWO-WEEK INTERVALS WOULD BE SUFFICIENT TO ACCESS AND MONITOR THE EFFECTIVENESS OF THE TREE PROTECTION PLAN AND TO PROVIDE RECOMMENDATIONS FOR ANY ADDITIONAL CARE OR TREATMENT.



DEMOLITION & TREE PROTECTION NOTES (CONT.)

15. <u>CLEAR AND GRUB:</u> CLEAR AND GRUB ALL EXISTING VEGETATION, AS INDICATED, AS REQUIRED FOR THE SITE CONSTRUCTION, IRRIGATION, AND PLANTING OPERATIONS. LIMITS OF CLEARING SHALL BE REVIEWED WITH CITY PRIOR TO COMMENCEMENT OF WORK. STRIP ALL ORGANIC MATTER TO A SUFFICIENT DEPTH TO COMPLETELY REMOVE SUCH MATERIAL.

    REVIEW DEMOLITION, AND CLEARING AND GRUBBING REQUIREMENTS ON SITE WITH CITY REPRESENTATIVE PRIOR TO COMMENCING DEMOLITION OPERATIONS.

    ALL CLEARING AND GRUBBING OPERATIONS WITHIN THE DRIP LINE/TPZ OF TREES SHALL BE PERFORMED BY HAND AND IN A MANNER THAT WILL NOT DAMAGE ROOTS.

    EXISTING SITE FURNISHINGS, PLAY EQUIPMENT, AND IRRIGATION EQUIPMENT TO BE REMOVED SHALL BE RETURNED TO CITY.

16. <u>IRRIGATION EQUIPMENT:</u> REMOVE ALL VISIBLE EXISTING IRRIGATION EQUIPMENT AND ANY BELOW-GRADE COMPONENTS THAT WOULD INTERFERE WITH THE WORK DURING TRENCHING AND/OR ROUGH GRADING OPERATIONS.

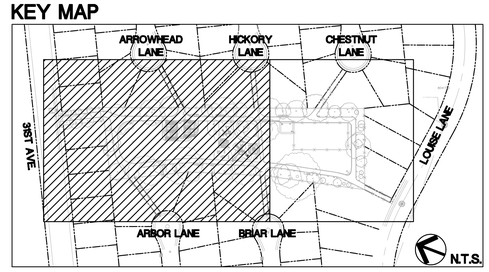
17. <u>SAWCUTTING:</u> ALL PAVEMENT AND CURB REMOVAL AS SHOWN ON THE PLAN SHALL BE ACCOMPLISHED BY SAWCUTTING.

    SAWCUTS SHALL BE NEAT AND CLEAN AND SHALL PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING FEATURES.

18. <u>CONSTRUCTION AND DEMOLITION DEBRIS:</u> CONTRACTOR SHALL COMPLY WITH SM MUNI ORDINANCE #20006-7 FOR CONSTRUCTION AND DEMOLITION DEBRIS.

FOR DISPOSITION LIST, SEE SHEET L4.1

KEY MAP



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EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

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SHEET TITLE
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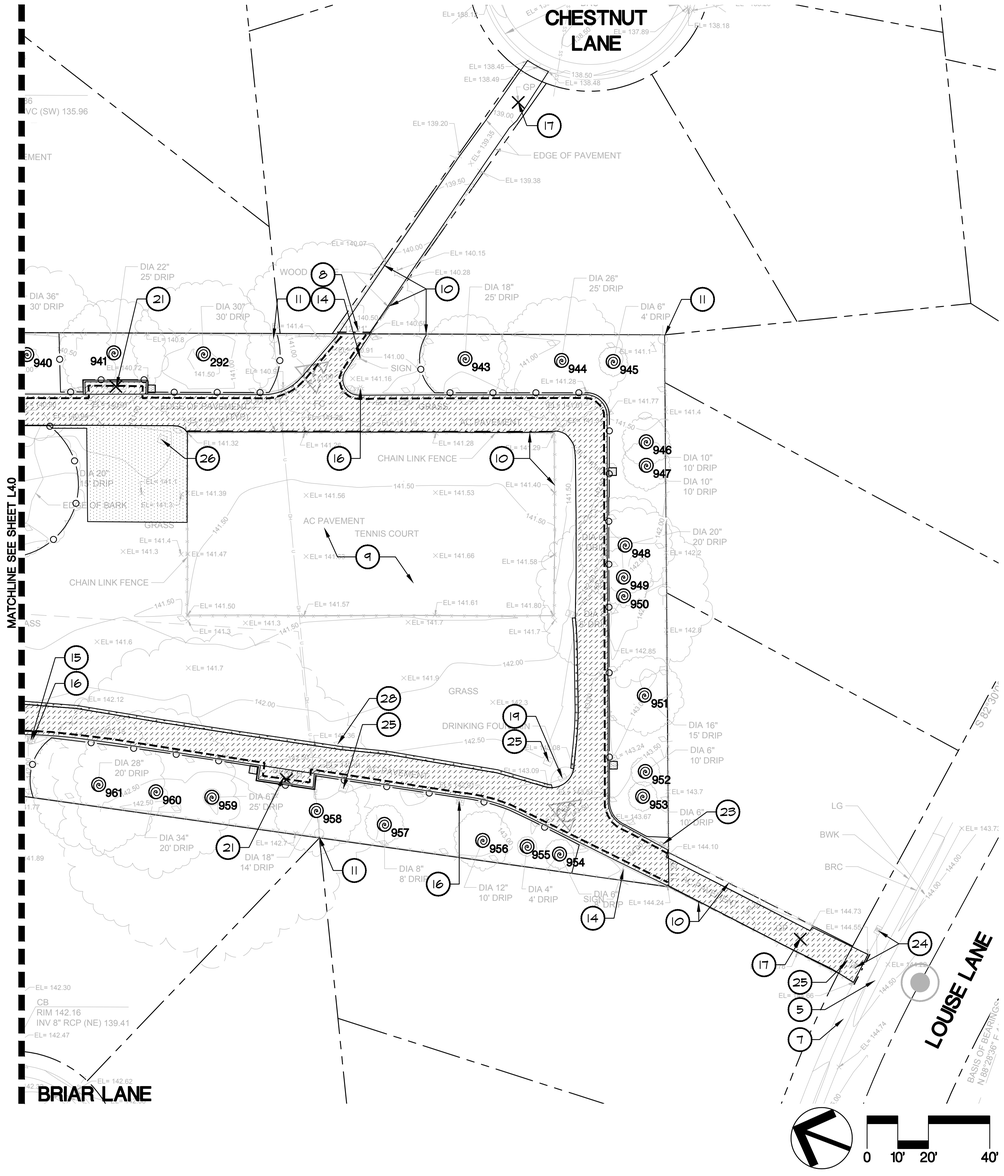
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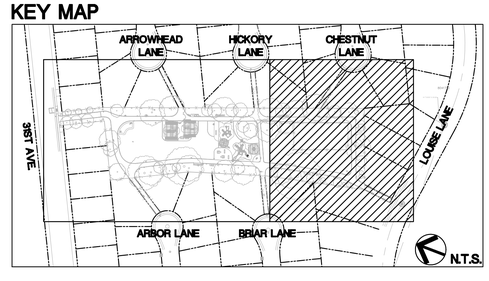
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DISPOSITION LIST

1. CATCH BASIN T.R., REFER TO CIVIL DRAWINGS
2. TRANSFORMER T.R.
3. ENTRY COLUMN AND WALL T.R.
4. BRICK WALL T.R.
5. CURB AND GUTTER T.R.
6. CURB T.R.
7. CONCRETE PAVEMENT T.R.
8. ASPHALT PAVEMENT T.R.
9. COURT SURFACING T.R.
10. FENCE T.R.
11. UTILITY POLE T.R.
12. PLAY EQUIPMENT T.B.R.
13. ENTRY SIGN T.R.
14. PARK SIGNAGE T.R.
15. MUTT MIT DISPENSER AND POST T.R.
16. LIGHT POST AND ELECTRICAL BOX T.R., LIGHT FIXTURES T.B.R. AND REPLACED, REFER TO ELECTRICAL PLANS
17. BOLLARD REMOVE AND REPLACE PER SITE CONSTRUCTION PLAN
18. BIKE RACK T.B.R.
19. WATER FOUNTAIN AND DRAIN BOX T.R.
20. BENCH TO BE SALVAGED AND RELOCATED, REFER TO SITE CONSTRUCTION PLAN
21. BENCH T.B.R.
22. PICNIC TABLE T.B.R.
23. BACKFLOW PREVENTER T.R.
24. WATER METER T.R.
25. IRRIGATION VALVE T.R.
26. IRRIGATION VALVE T.B.R.
27. CONTROLLER AND ENCLOSURE T.B.R., POWER SOURCE TO REMAIN, EXISTING WIRE TO VALVES OUTSIDE OF TURF AREAS TO REMAIN
28. IRRIGATION HEADS WITHIN LIMIT OF DISTURBANCE, T.B.R., TYP. REFER TO IRRIGATION PLAN FOR MORE INFORMATION.
29. STORM DRAIN LINE T.R., PROTECT IN PLACE



KEY MAP



FOR DEMOLITION AND TREE PROTECTION LEGEND AND NOTES, SEE SHEET L4.0

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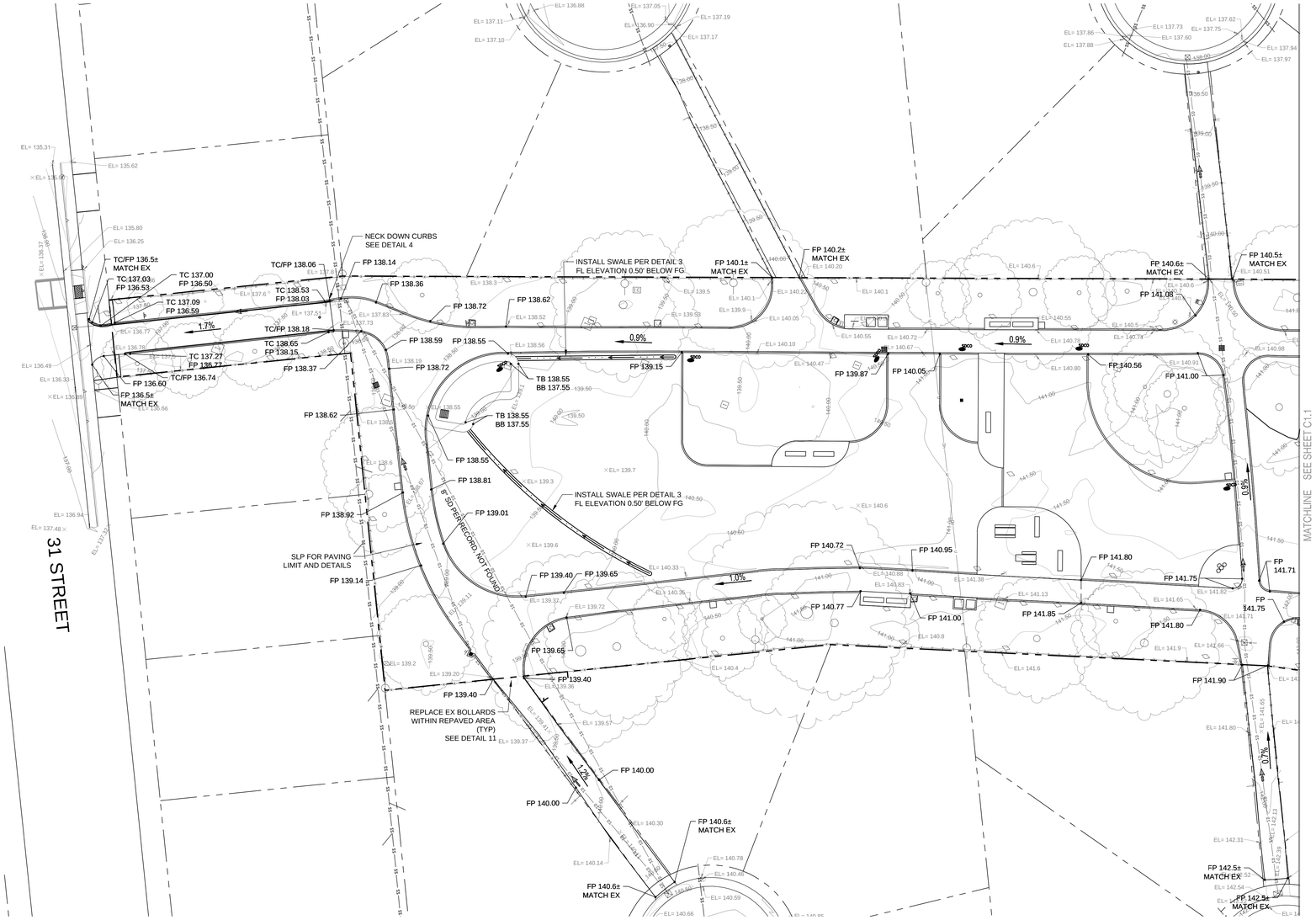
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SHEET TITLE
DEMOLITION & TREE PROTECTION PLAN

SHEET
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LEGEND:

- EXISTING PROPERTY LINE
- EASEMENT
- x.xx% — SLOPE
- TC 85.00 — PROPOSED SPOT ELEVATION
- CONFORM
- BIORETENTION AREA
- LIMIT OF WORK
- GRADE BREAK

ABBREVIATIONS:

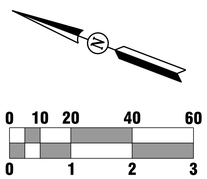
AC	ASPHALT CONCRETE
BB	BOTTOM OF BIORETENTION
BC	BEGIN CURVE
BLDG	BUILDING
C&G	CURB AND GUTTER
CONC	PORTLAND CEMENT CONCRETE
DTL	DETAIL
(E), EX	EXISTING
EC	END CURVE
EG	EXISTING GRADE
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FP	FINISHED PAVEMENT
GB	GRADE BREAK
HP	HIGH POINT
INV	INVERT
LF	LINEAR FEET
LIP	LIP OF GUTTER
LP	LOW POINT
PVMT	PAVEMENT
PROP	PROPOSED
S	SLOPE
SD	STORM DRAIN
SDCO	STORM DRAIN CLEANOUT
SDI	STORM DRAIN INLET
SDMH	STORM DRAIN MANHOLE
SF	SQUARE FEET
SLP	SEE LANDSCAPE PLAN
SO	SIDE OPENING
S/W	SIDEWALK
TB	TOP OF BIORETENTION
TC	TOP OF CURB
TG	TOP OF GRATE
TYP	TYPICAL

NOTES

1. EX UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY LOCATIONS BEFORE CONSTRUCTION BEGINS.
2. PAVEMENT SLOPES ARE APPROXIMATE & SHOWN FOR REFERENCE. CONTRACTOR SHALL USE GRADES FOR CONSTRUCTION.
3. PROVIDE SMOOTH TRANSITION AMONG GRADE BRAKES, RIDGES AND GRADE TRANSITIONS.
4. PROVIDE SMOOTH TRANSITION IN LINE AND GRADE BETWEEN EXISTING AND PROPOSED IMPROVEMENTS.
5. UNLESS APPROVED IN WRITING BY THE CITY ENGINEER, NO GRADING IN EXCESS OF 200 CUBIC YARDS SHALL BE ACCOMPLISHED BETWEEN NOVEMBER 1 AND MAY 1 OF EACH YEAR.

ROUGH GRADING

TOTAL CUT: 312 CY
TOTAL FILL: 110 CY
NET OFFHAUL: 202 CY
TOTAL AREA OF GRADING: 29,244 SF



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WILSEY HAM
Engineering, Surveying & Planning
3130 La Selva Street, Suite 100
San Mateo, CA 94403
650.349.2151

REVISION	DATE

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

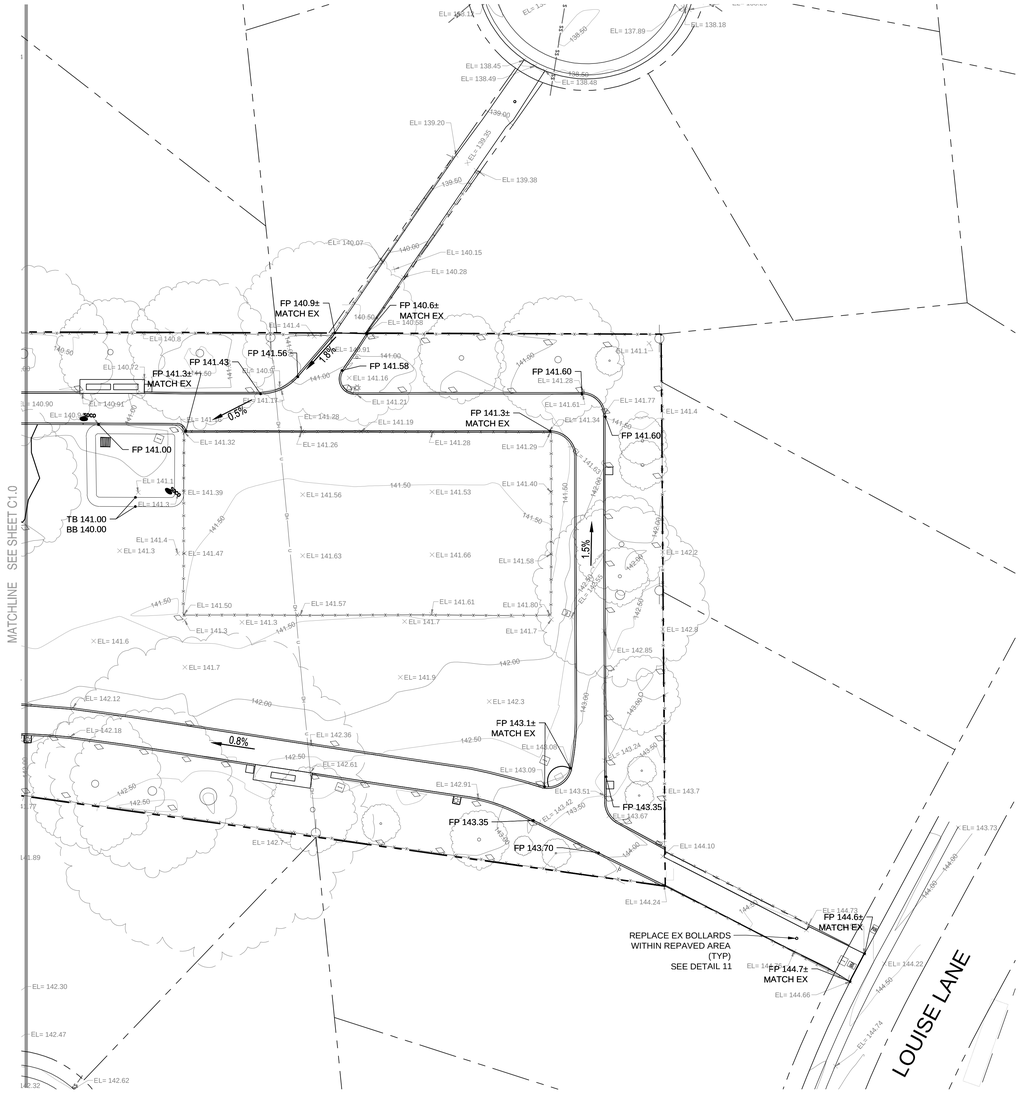
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SHEET TITLE
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SHEET
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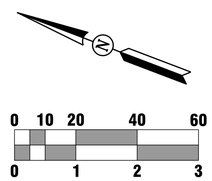
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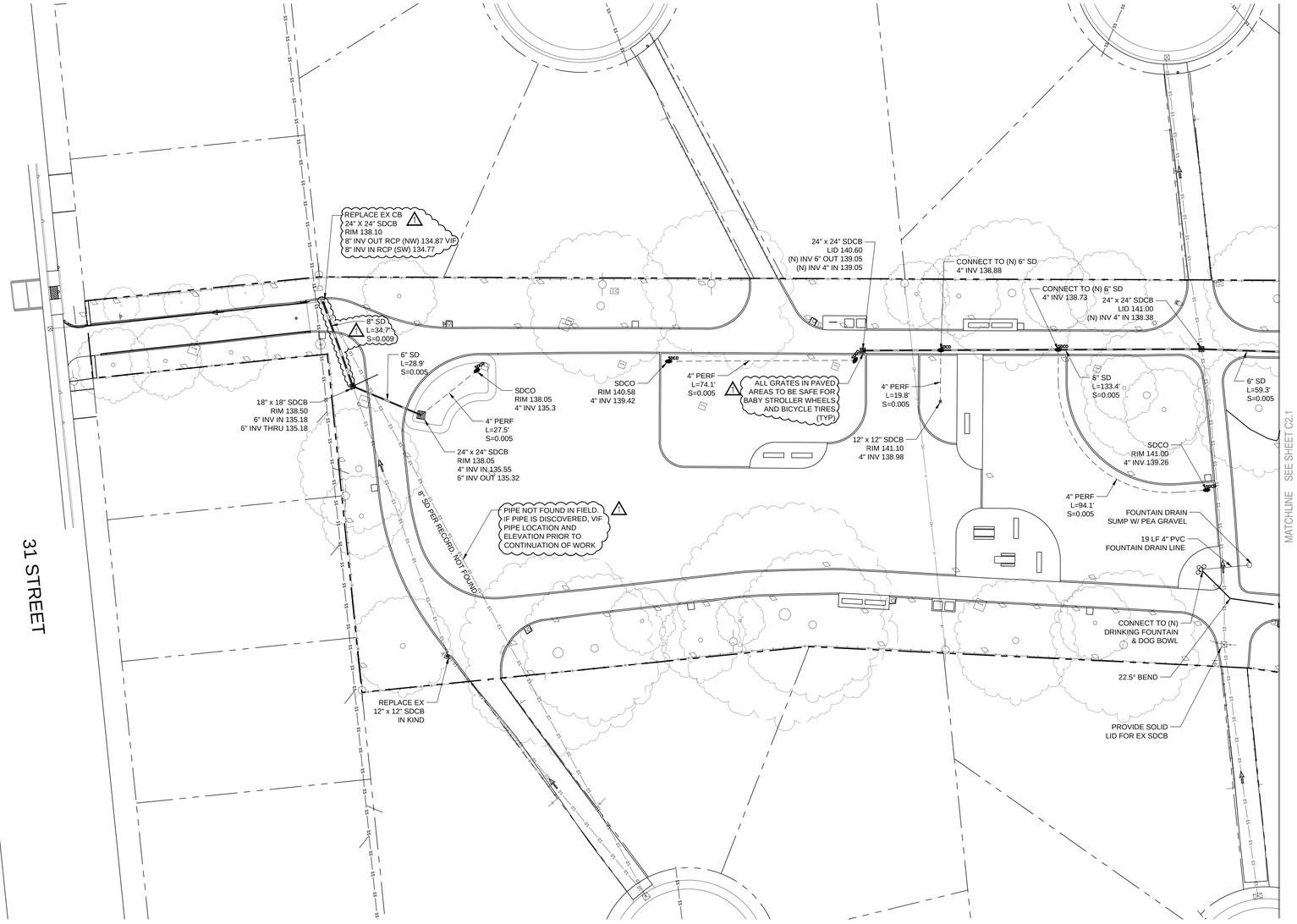
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SHEET TITLE
GRADING PLAN

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LEGEND

- PROPERTY LINE
- EX WATER LINE
- PROPOSED WATER LINE
- EX STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- PERFORATED UNDERDRAIN
- EXISTING BACKFLOW PREVENTER
- STORM DRAIN INLET
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT

ABBREVIATIONS

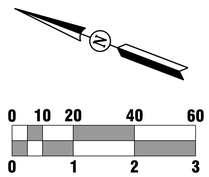
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DTL	DETAIL
E	EAST
(E), EX	EXISTING
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FP	FINISHED PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
L	LENGTH
LF	LINEAR FEET
N	NORTH
PERF	PERFORATED
POC	POINT OF CONNECTION
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE
R	RADIUS
S	SLOPE, SOUTH
SLP	SEE LANDSCAPE PLAN
SD	STORM DRAIN
SDCO	STORM DRAIN CLEANOUT
SDI	STORM DRAIN INLET
SDI MH	STORM DRAIN INLET MANHOLE
SDMH	STORM DRAIN MANHOLE
SF	SQUARE FEET
SLP	SEE LANDSCAPE PLAN
S.O.	SIDE OPENING
TC	TOP OF CURB
TG	TOP OF GRATE
TYP	TYPICAL
VIF	VERIFY IN FIELD
W	WATER, WEST

GENERAL NOTES

1. ALL PIPE LENGTHS SHOWN ARE FROM CENTERLINE TO CENTERLINE OF STRUCTURE.
2. STORM DRAIN PIPE MATERIAL SHALL BE HDPE.
3. ALL INLETS SHALL BE MARKED WITH "NO DUMPING FLOWS TO BAY."
4. DROP INLETS WITH SIDE OPENINGS SHALL BE CONSTRUCTED PER DETAILS 10, SHEET C4.1.
5. USE RADIUS TO SWEEP 4" UNDERDRAIN INTO STORM DRAIN STRUCTURE AT BIORETENTION AREAS.
6. SEE SITE GRADING SHEETS FOR BIORETENTION GRADING.
7. CONTRACTOR SHALL POTHOLE PROPOSED UTILITY ROUTE PRIOR TO INSTALLING AND CONSTRUCTING NEW UTILITIES.
8. CONTRACTOR SHALL SURVEY CAPPED UTILITIES FOR FUTURE AND DOCUMENT COORDINATES ON RECORD DRAWINGS.
9. CONTRACTOR SHALL LOCATE INSTALLED UTILITIES AND DOCUMENT LOCATION AND DEPTHS PRIOR TO ANY NEW CONSTRUCTION.
10. STREET STORM DRAIN INLET CATCH BASINS SHALL FOLLOW DETAILS 9 AND 10 ON SHEET C4.1.
11. SDCO SHALL FOLLOW DETAIL 7 ON SHEET C4.0.
12. CONTRACTOR SHALL MAKE SURE THAT ANY PENETRATIONS TO THE BIORETENTION AREAS SHALL BE SEALED AND WATERPROOFED. CONTRACTOR SHALL SUBMIT A WATER PROOFING SEALANT TO ENGINEER FOR REVIEW.
13. PROTECT TREE ROOTS WITHIN DRIPLINE. TRENCHING WITHIN TREE DRIPLINE SHALL BE DONE VIA HAND DIGGING.

WATER NOTES

1. WATER PIPE MATERIAL SHALL BE TYPE K COPPER, EXCEPT WHERE NOTED AS PVC.
2. ALL UTILITIES SHALL HAVE A MINIMUM OF 36" COVER DEPTH, UNLESS ELEVATION IS SPECIFIED OTHERWISE.
3. FIRE HYDRANTS SHALL BE PROTECTED. CONTRACTOR SHALL REPLACE AND DAMAGE FIRE HYDRANT PER CITY OF SAN MATEO FIRE DEPARTMENT SPECIFICATIONS.
4. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY LOCATIONS BEFORE CONSTRUCTION BEGINS.
5. CONTRACTOR SHALL POTHOLE EX UTILITIES TO VERIFY LOCATIONS, SIZES, AND DEPTHS AND PROVIDE MINIMUM CLEARANCES AND COVER AT ANY NEW UTILITY CROSSINGS. CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND CONTRACTOR SHALL NOT PROCEED UNTIL NOTIFIED BY THE ENGINEER.
6. ALL UTILITY TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH DETAIL 8, SHEET C4.1.
7. EXISTING TREES AND STRUCTURES SHALL BE PROTECTED DURING THE CONSTRUCTION. AVOID TRENCHING BELOW DRIPLINES OF TREES, IF POSSIBLE. REFER TO ARBORIST REPORT FOR TRENCHING BELOW DRIPLINE REQUIREMENTS AND FURTHER INFORMATION.



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REVISION	DATE
Building Resubmittal	05/15/24

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/23
100% Submittal	05/15/24

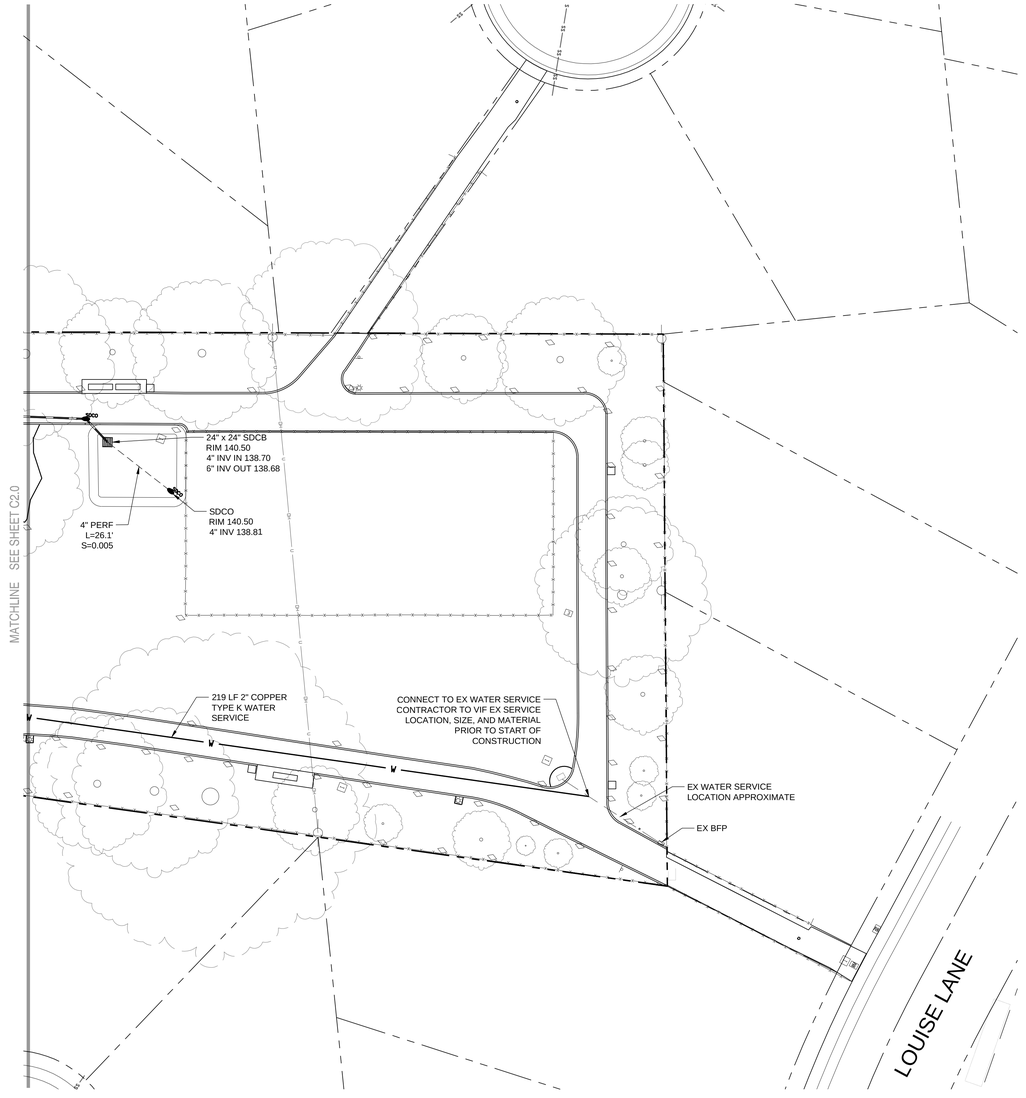
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SHEET TITLE
UTILITY PLAN

SHEET
C2.0

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LEGEND

- PROPERTY LINE
- EX WATER LINE
- PROPOSED WATER LINE
- EX STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- PERFORATED UNDERDRAIN
- EXISTING BACKFLOW PREVENTER
- STORM DRAIN INLET
- STORM DRAIN MANHOLE
- SDCO STORM DRAIN CLEANOUT

ABBREVIATIONS

AC	ASPHALT CONCRETE
BFP	BACKFLOW PREVENTER
C&G	CURB & GUTTER
CONC	PORTLAND CEMENT CONCRETE
DTL	DETAIL
E	EAST
(E), EX	EXISTING
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FP	FINISHED PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
L	LENGTH
LF	LINEAR FEET
N	NORTH
PERF	PERFORATED
POC	POINT OF CONNECTION
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE
R	RADIUS
S	SLOPE, SOUTH
SLP	SEE LANDSCAPE PLAN
SD	STORM DRAIN
SDCO	STORM DRAIN CLEANOUT
SDI	STORM DRAIN INLET
SDI MH	STORM DRAIN INLET MANHOLE
SDMH	STORM DRAIN MANHOLE
SF	SQUARE FEET
SLP	SEE LANDSCAPE PLAN
S.O.	SIDE OPENING
TC	TOP OF CURB
TG	TOP OF GRATE
TYP	TYPICAL
VIF	VERIFY IN FIELD
W	WATER, WEST

GENERAL NOTES

1. ALL PIPE LENGTHS SHOWN ARE FROM CENTERLINE TO CENTERLINE OF STRUCTURE.
2. STORM DRAIN PIPE MATERIAL SHALL BE HDPE.
3. ALL INLETS SHALL BE MARKED WITH "NO DUMPING FLOWS TO BAY."
4. DROP INLETS WITH SIDE OPENINGS SHALL BE CONSTRUCTED PER DETAILS 10, SHEET C4.1.
5. USE RADIUS TO SWEEP 4" UNDERDRAIN INTO STORM DRAIN STRUCTURE AT BIORETENTION AREAS.
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650.349.2151

REVISION	DATE
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EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

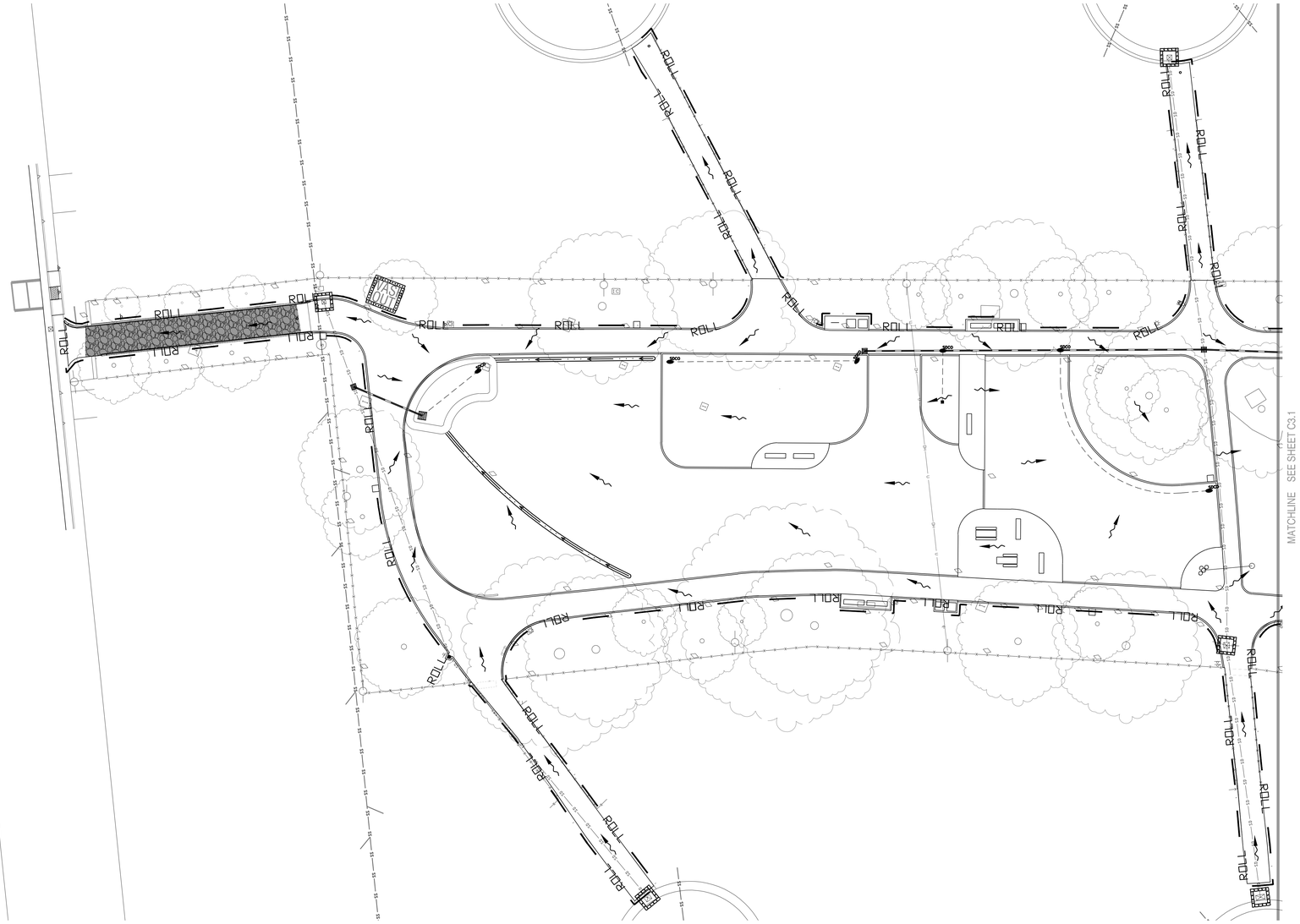
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SHEET TITLE
UTILITY PLAN

SHEET
C2.1

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LEGEND

- PROPERTY LINE
- EASEMENT
- LIMIT OF WORK
- ROLL — FIBER ROLL WATTLE
- STORM DRAIN INLET PROTECTION
- CONSTRUCTION ENTRANCE/TIRE WASH AREA
- CONCRETE WASH OUT (WASH OUT)
- DRAINAGE DIRECTION

ABBREVIATIONS

AC	ASPHALT CONCRETE
AD	AREA DRAIN
BR	BOTTOM OF RAMP
BLDG	BUILDING
C	CURVE
CL	CENTERLINE
C&G	CURB AND GUTTER
CONC	PORTLAND CEMENT CONCRETE
DTL	DETAIL
(E), EX	EXISTING
FF	FINISHED FLOOR
FH	FIRE HYDRANT
L	LENGTH
LF	LINEAR FEET
PROP	PROPOSED
R	RADIUS
SD	STORM DRAIN
SDI	STORM DRAIN INLET
SDCO	STORM DRAIN CLEANOUT
S/W	SIDEWALK
TYP	TYPICAL

GENERAL NOTES

1. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES BEFORE DEMOLITION OR GRADING. UPDATE AND MAINTAIN THROUGH PROJECT COMPLETION.
2. ALL TRUCKS ENTERING AND LEAVING THE GRADED SITE MUST CROSS CONSTRUCTION ENTRANCE. CONTRACTOR MAY ADJUST THE LOCATION OF THE CONSTRUCTION ENTRANCE TO FACILITATE CONSTRUCTION OPERATIONS. RELOCATED CONSTRUCTION ENTRANCE SHALL BE YAKMAT "OUTRAK" TRACKOUT CONTROL MAT OR CITY-APPROVED EQUAL, AND SHALL HAVE MINIMUM DIMENSIONS OF 50' LONG X 20' WIDE X 8" THICK.
3. CONCRETE WASHOUT AREA CAN BE RELOCATED WITH APPROVAL OF THE SITE SUPERINTENDENT.
4. CONTRACTOR SHALL PROTECT ALL STOCKPILES FROM WIND AND RAIN EROSION.
5. ALL CATCH BASINS, INLETS AND TRENCH DRAINS LOCATED IN PARTIALLY GRADED AREAS SHALL BE PROTECTED PER DETAIL 3A ON SHEET 138-C08-004. ALL CATCH BASINS, INLETS, AND TRENCH DRAINS LOCATED IN FULLY GRADED AREAS SHALL BE PROTECTED PER DETAIL 3B ON SHEET 138-C08-004.
6. EXISTING INLETS SHALL BE MAINTAINED FREE OF ANY DEBRIS TO ENSURE THE EXISTING STORM DRAIN OPERATES PROPERLY.
7. NO PORTABLE RESTROOM FACILITIES SHALL BE PLACED WITHIN 50 FEET OF AN INLET.

BMP CONSTRUCTION NOTES

1. THE LAYOUT OF THE BMPs SHOWN ON THIS PLAN IS SCHEMATIC. THE CONTRACTOR SHALL PLACE THESE BMPs TO FACILITATE CONSTRUCTION AND MEET THE REQUIREMENTS OF THE NPDES GENERAL PERMIT (NO. 2009-0009-DWQ), INCLUDING ATTACHMENT D.
2. MAXIMUM SPACING OF FIBER ROLLS SHALL BE AS FOLLOWS:

GROUND SLOPE	MAX SPACING
0-25% (FLAT TO 4:1)	20'
25-50% (4:1 TO 2:1)	15'
>50% (MORE THAN 2:1)	10'

3. DEWATERING: SURFACE RUNOFF TO BE PUMPED TO TREATMENT TANKS BY ATS (OR APPROVED EQUAL) LOCATED IN THE PARKING LOT WEST OF THE PROJECT AREA. OPERATION OF THE TREATMENT SYSTEM SHALL BE PER ATS RECOMMENDATIONS AND ADJUSTED ACCORDINGLY TO MEET NPDES NUMERIC ACTION LEVELS OF 6.5-8.5 FOR PH AND LESS THAN 250 NTU FOR TURBIDITY AT THE DISCHARGE POINT OF THE SYSTEM.

0 10 20 40 60

0 1 2 3

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REVISION	DATE
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EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/23
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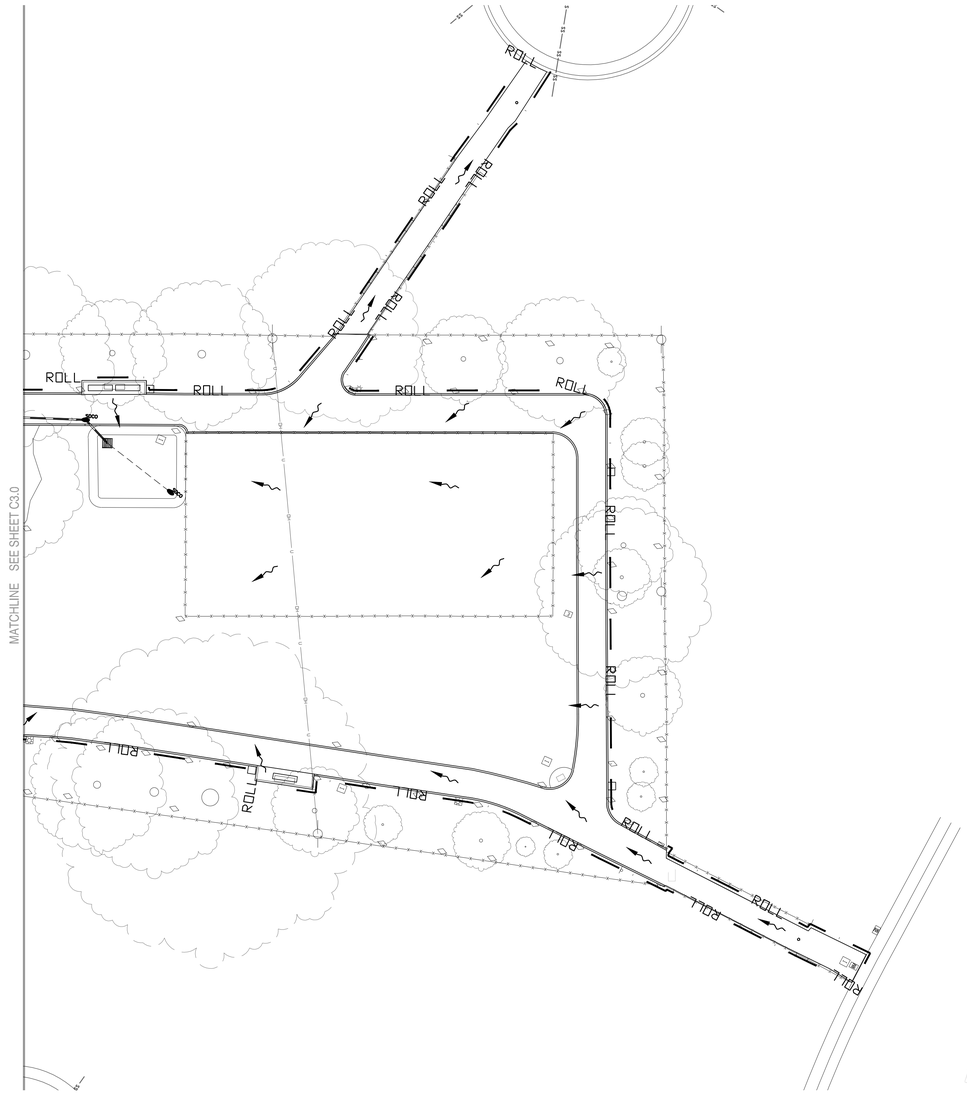
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SHEET TITLE
EROSION CONTROL PLAN

SHEET
C3.0

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LEGEND

- PROPERTY LINE
- EASEMENT
- LIMIT OF WORK
- FIBER ROLL WATTLE (ROLL)
- STORM DRAIN INLET PROTECTION
- CONSTRUCTION ENTRANCE/TIRE WASH AREA
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- DRAINAGE DIRECTION

ABBREVIATIONS

AC	ASPHALT CONCRETE
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1 Building Resubmittal	05/15/24

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/23
100% Submittal	05/15/24

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SHEET TITLE
EROSION CONTROL PLAN

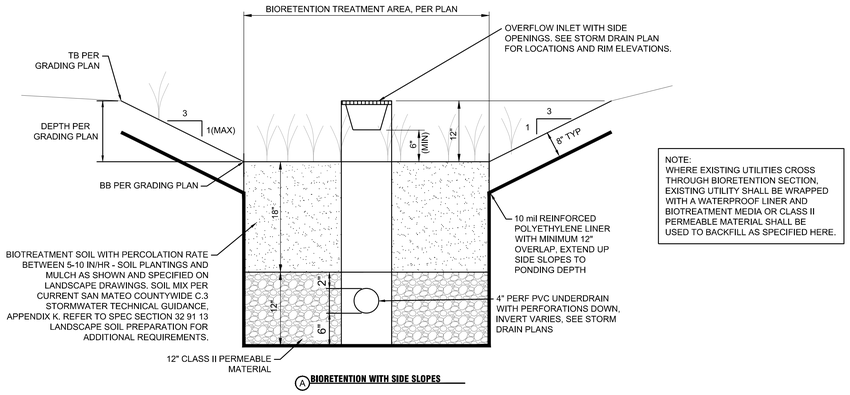
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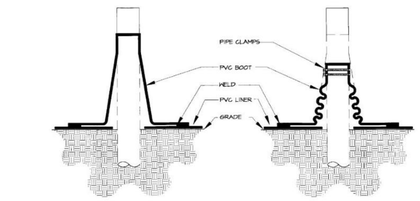
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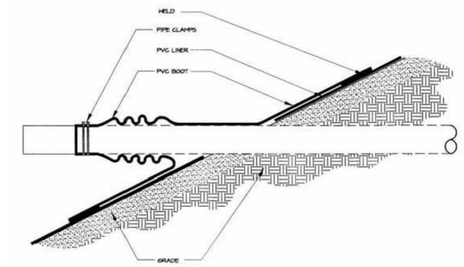


NOTE:
WHERE EXISTING UTILITIES CROSS THROUGH BIORETENTION SECTION, EXISTING UTILITY SHALL BE WRAPPED WITH A WATERPROOF LINER AND BIOTREATMENT MEDIA OR CLASS II PERMEABLE MATERIAL SHALL BE USED TO BACKFILL AS SPECIFIED HERE.

1 BIORETENTION AREA
NTS

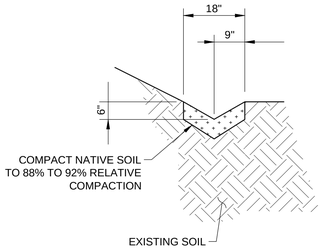


EPI PIPE BOOT

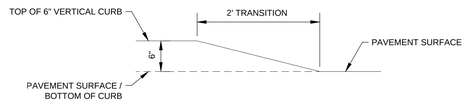


EPI PIPE BOOT

2 BIORETENTION LINER PENETRATION
NTS

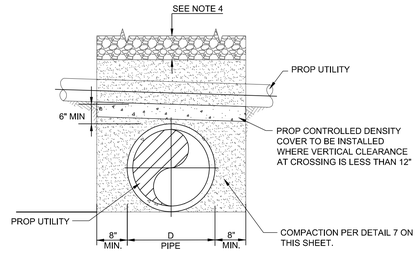


3 SWALE
NTS



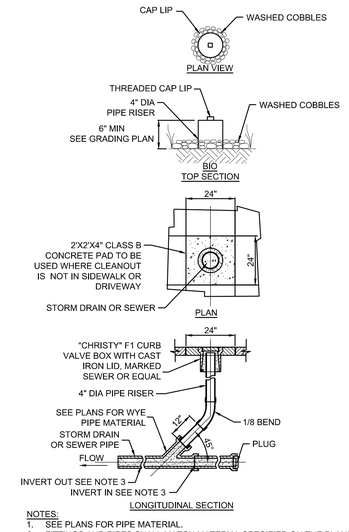
4 NECK DOWN CURB
NTS

5 NOT USED
NTS



NOTES:
1. LENGTH OF PIPE SHALL BE AT LEAST 1 FULL LENGTH (20-FEET FOR HDPE AND PVC) APPROXIMATELY CENTERED AT CROSSING.
2. ALL CROSSINGS TO BE INSPECTED BY CITY PRIOR TO BACKFILL.
3. ALL BACKFILL TO CONFORM TO CITY'S TYPICAL TRENCH SECTION.
4. BACKFILL PER TYPICAL TRENCH SECTION DETAIL, SEE DETAIL 7 ON THIS SHEET.

6 PIPE CROSSING DETAIL
NTS



NOTES:
1. SEE PLANS FOR PIPE MATERIAL.
2. FITTINGS AND PIPES SHALL MATCH MATERIAL SPECIFIED ON THE PLANS.
3. CONSTRUCT INVERT PER ELEVATIONS SHOWN ON THE PLANS.

7 CLEANOUT
NTS

EAST HILLSDALE PARK IMPROVEMENTS
SAN MATEO, CALIFORNIA

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SHEET TITLE
CIVIL DETAILS

SHEET
C4.0

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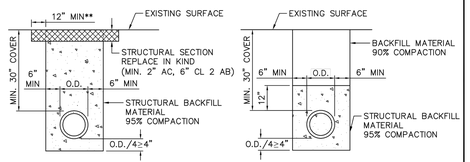
COUNTY OF SAN MATEO DEPARTMENT OF PUBLIC WORKS

REDWOOD CITY CALIFORNIA

DRAWN BY: A.Z.
CHECKED BY: K.L.
APPROVED BY: A.M.S.

SCALE: NONE
DATE: 2-2022
REVISED: 2-2022

O.D.= OUTSIDE DIAMETER



TYPE A (IN ROADWAY)

TYPE B (OUTSIDE ROADWAY)

THERE SHALL BE A MINIMUM OF TWO AND ONE-HALF FEET (30 INCHES) OF COVER OVER ALL PIPES AND CONDUITS UNLESS OTHERWISE APPROVED BY COUNTY ROAD INSPECTOR.

STRUCTURE BACKFILL MATERIAL – MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:

SIEVE SIZE	% PASSING SIEVES
3"	100
NO.4	35–100
NO.30	20–100

BACKFILL MATERIAL – MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES IN GREATEST DIMENSION, VEGETABLE MATTER, OR OTHER UNSATISFACTORY MATERIAL.

* IN AREAS OF CEMENT TREATED BASES, THE REPLACEMENT MATERIAL SHALL CONSIST OF A MINIMUM OF 3" OF ASPHALT CONCRETE (TYPE B) OVER A MINIMUM OF 8" OF PORTLAND CEMENT CONCRETE (CLASS 3).

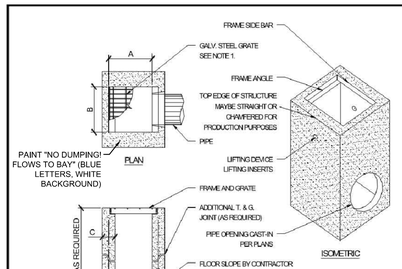
FOR TRENCH BACKFILL REQUIREMENTS FOR SANITARY SEWER PIPE, SEE STANDARD DRAWINGS C6 AND C7.

** ON TRENCHES THAT PARALLEL THE ROAD AND ARE WITHIN EXISTING BICYCLE LANES, THE WIDTH OF THE STRUCTURAL SECTION SHALL BE GREATER THAN OR EQUAL TO THE WIDTH OF THE EXISTING BICYCLE LANE.

STANDARD TRENCH BACKFILL AND BEDDING DETAIL FOR STORM DRAIN PIPES

B-15

8 TYPICAL UTILITY TRENCH (CITY STD DETAIL U-1A)
NTS



DROP INLET SIZING

DIAMETER	INLET
8" - 12"	CB2424
15" - 18"	CB3030

DROP INLET TABLE

Central Precast Concrete - Model Ref. CP1212 etc

USCPG MODEL No.	SANTA ROSA REF.	A IN	A MM	B IN	B MM	C IN	C MM
CB1212	1K	12	300	12	300	4	100
CB1818	CK	18	450	18	450	5	125
CB1824	1K*	18	450	24	600	5	125
CB2424	2K	24	600	24	600	5	125
CB2430	3K	24	600	30	750	5	125
CB3000	5K	30	750	30	750	6	150
CB2436	1L	24	600	36	900	6	150
CB3636	1M	36	900	36	900	6	150
CB2448	3L	24	600	48	1200	6	150
CB3648	3M	36	900	48	1200	6	150
CB4848	1R	48	1200	48	1200	6	150

NOTES:

1. FRAMES AND GRATES MAY BE SPECIFIED FOR PEDESTRIAN OR TRAFFIC LOADING. ALL GRATES ARE BICYCLE PROOF. OPTIONAL GRATE LOCKING DEVICE AVAILABLE ON REQUEST SEE DRAWING ON PAGE 1-7. CLOSED MESH GRATES OR CAST IRON FRAME AND GRATES ARE AVAILABLE ON REQUEST.
2. FOR SURFACE AND DISCHARGE OPTIONS AVAILABLE SEE DRAWING ON PAGE 1-4, 1-5 & 1-6.
3. FRAMES AND GRATES DETAILS SEE PAGES 1-8, 1-9, AND 1-10. CASTING 1-13, DROP-IN 1-14.
4. WALL THICKNESS ON SOME DROP INLETS CAN BE CHANGED UPON REQUEST. CALL TO VERIFY RESD THICKNESS
5. 18" WIDE DI'S REPLACE THE OLD 16" WIDE BOX. BK & 1K*
6. FOR PIPE / HOLE SCHEDULE SEE PAGE 1-16.

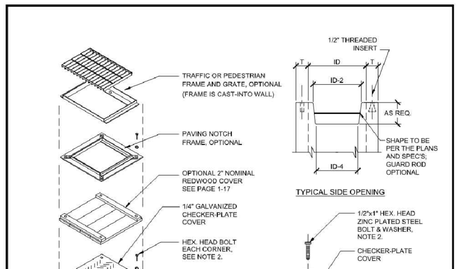
US CONCRETE PRECAST GROUP
3049 INDEPENDENCE DRIVE, SUITE A
LIVERMORE, CA 94551
PHONE: 925-960-8740
FAX: 925-960-1903

Date: 3/11/2010
Scale: N.T.S.
Rev.: 0
DWG: 1-2.dwg

TITLE: CUSTOM PRECAST

PAGE: 1-2

9 DROP INLET
NTS



NOTES :

1. SIDE OPENINGS CAN BE PROVIDED ON ANY MODEL DROP INLET, SEE PAGE 1-2 & 1-16.
2. COUNTERSUNK BOLTS AVAILABLE ON REQUEST, FOR CHECKER-PLATE OPTION.

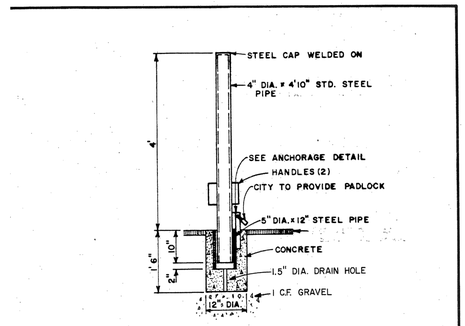
US CONCRETE PRECAST GROUP
3049 INDEPENDENCE DRIVE, SUITE A
LIVERMORE, CA 94551
PHONE: 925-960-8740
FAX: 925-960-1903
WWW.US-CONCRETEPRECAST.COM

Date: 3/11/2010
Scale: N.T.S.
Rev.: 0
DWG: 1-4.dwg

TITLE: DROP INLET WITH SIDE OPENING

PAGE: 1-4

10 DROP INLET WITH SIDE OPENING
NTS



REMOVABLE STEEL POST

SCALE: 3/4"= 1'0"

REFER TO STD. DWG. 3-1-842△

NOTES:

1) ALL PIPE SHALL BE STANDARD WEIGHT STRUCTURAL STEEL PIPE.
2) HOT DIP GALVANIZE BOTH STEEL MEMBERS AFTER FABRICATION.
3) PAINT TOP 12" OF 4" DIA. PIPE WITH INDUSTRIAL WHITE ENAMEL AFTER GALV.

△ REVISION 3/22/96

CITY OF SAN MATEO — CALIFORNIA 94403

STANDARD BOLLARD

DATE	DRAWN BY	CHECKED	APPROVED	CASE	DRAWER	SET
12-85	DMB		11/6/86 CITY ENGINEER	3	1	841

SHEET ___ OF ___

11 STANDARD BOLLARD
NTS

WILSEY HAM
Engineering, Surveying & Planning
3130 La Selva Street, Suite 100
San Mateo, CA 94403
650.349.2151

REVISION	DATE

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/23
100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
CIVIL DETAILS

SHEET
C4.1

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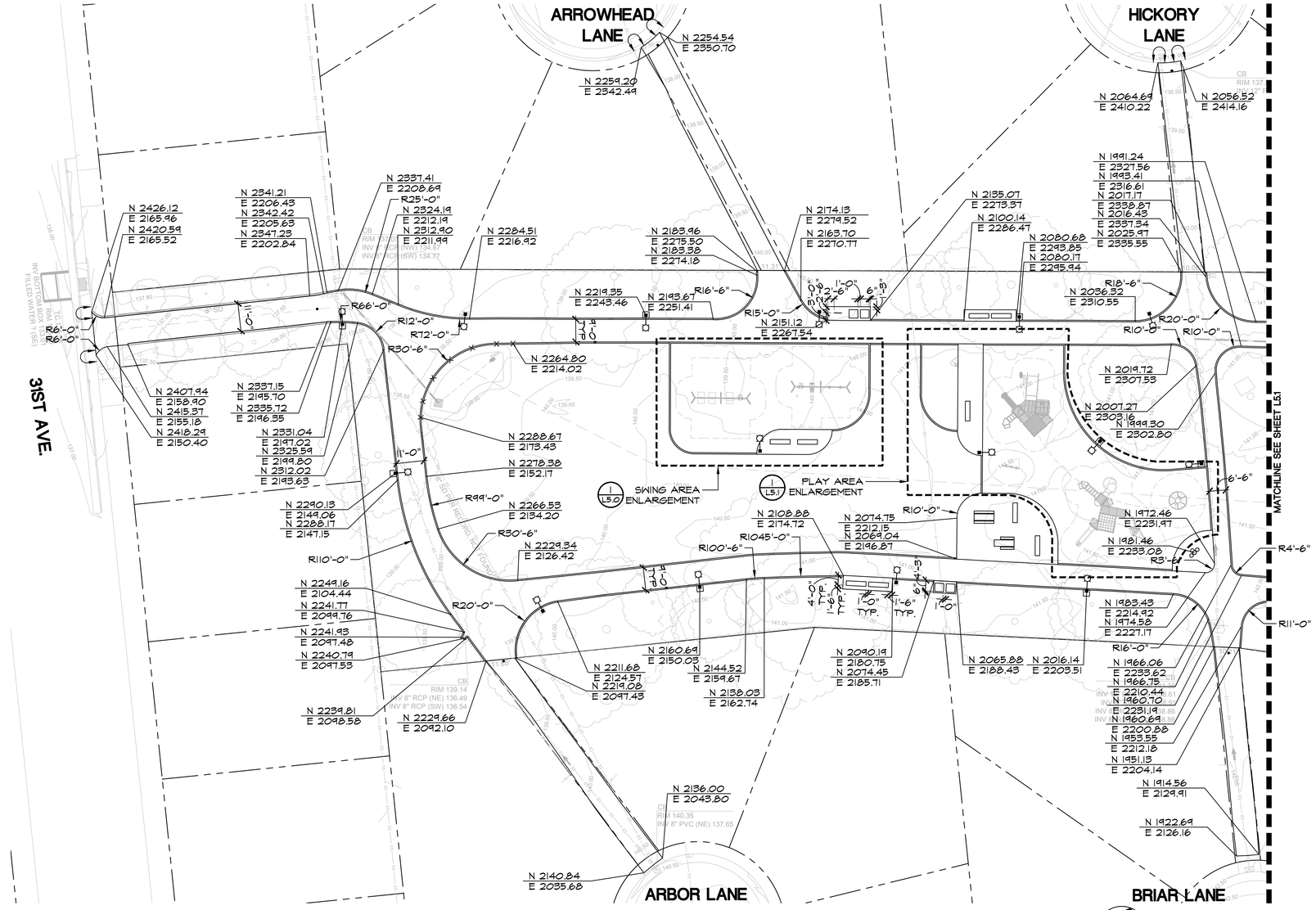
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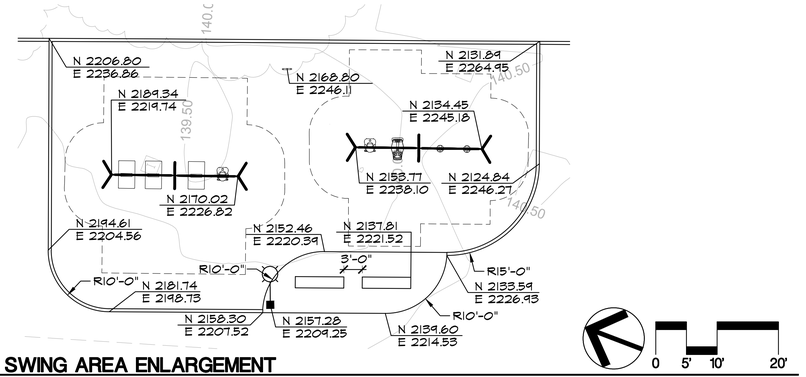
HORIZONTAL CONTROL LEGEND

N 0000.00 E 0000.00	NORTHING AND EASTING COORDINATE POINT, SEE REFERENCE POINTS TO ESTABLISH GRID
	ALIGN
	HORIZONTAL CONTROL POINT
℄	CENTERLINE
R	RADIUS
EQ	EQUAL

HORIZONTAL CONTROL NOTES

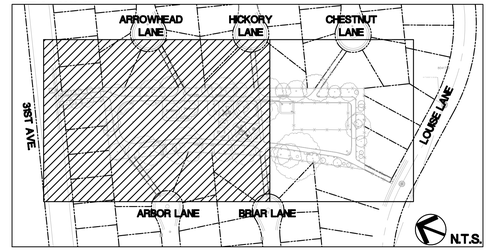
1. DIMENSIONS: ALL WRITTEN DIMENSIONS SUPERSEDE SCALED DIMENSIONS. ALL DIMENSIONS ARE TO FACE OF CURB, OR EDGE OF CONCRETE FLATWORK/BAND.
2. PROJECT STAKING: ALL PROPOSED SITE FEATURES SHALL BE STAKED IN FIELD FOR REVIEW BY THE CITY'S REPRESENTATIVE PRIOR TO CONSTRUCTION. ALL CURVES SHALL BE SMOOTH AND CONTINUOUS WITH CAREFULLY MATCHED TANGENTS.
3. LAYOUT ALONG PATH: NORTHING AND EASTING COORDINATE POINTS AND RADII ARE INDICATED ON EDGE OF PAVEMENT.





1 / L5.0 **SWING AREA ENLARGEMENT PLAN**

KEY MAP



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EAST HILLSDALE PARK IMPROVEMENTS
SAN MATEO, CALIFORNIA

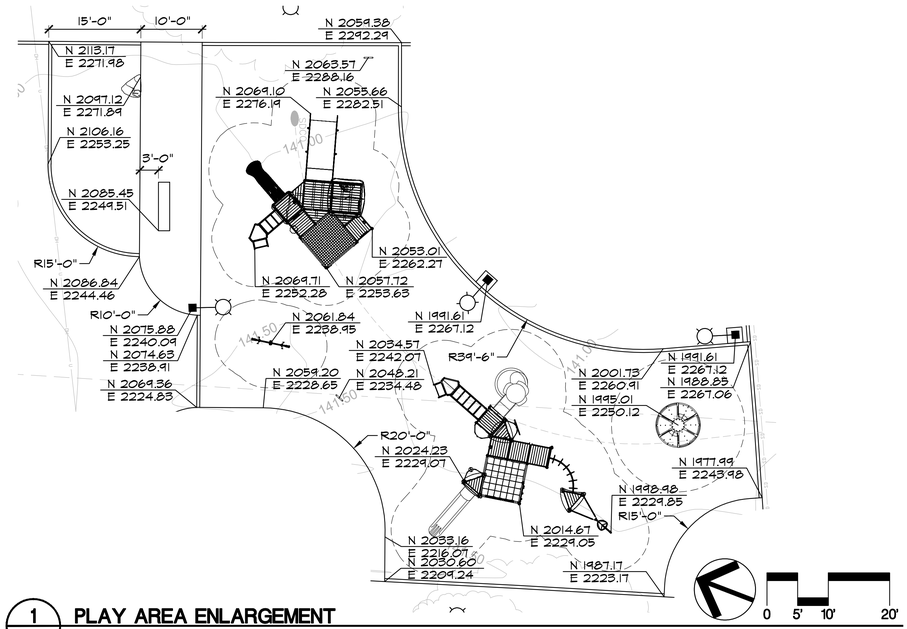
ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
CHECKED BY: BF/ZK
SCALE: As Shown

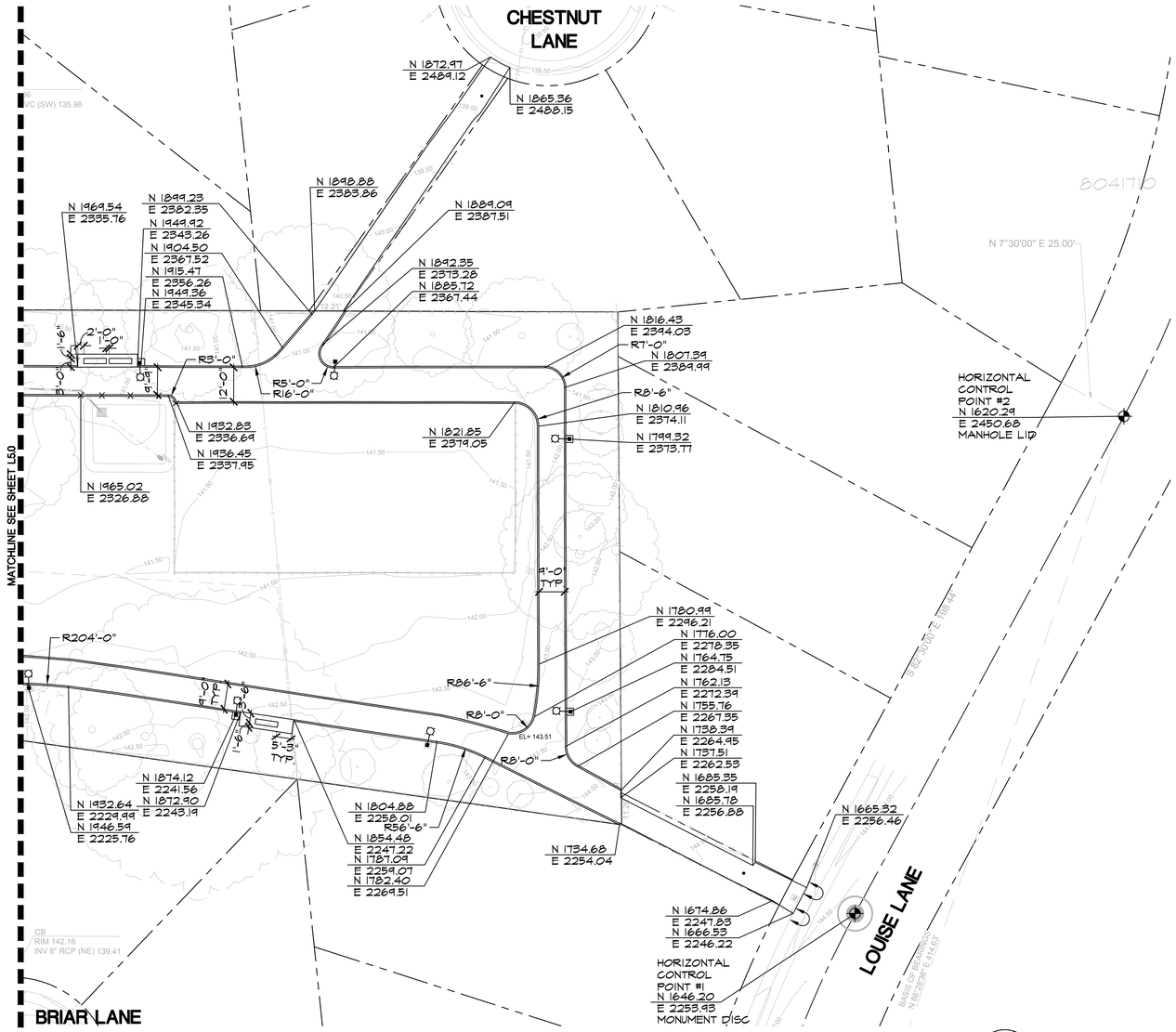
SHEET TITLE
HORIZONTAL CONTROL PLAN

SHEET
L5.0

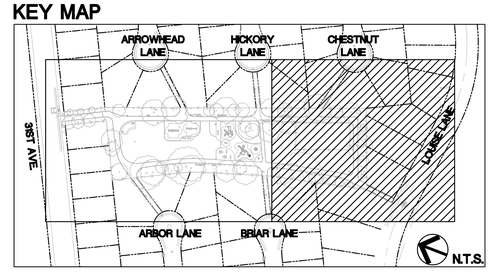
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1 L5.1 **PLAY AREA ENLARGEMENT PLAN**



KEY MAP



FOR HORIZONTAL CONTROL LEGEND AND NOTES, SEE SHEET L5.0

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Signature
Mar 31, 2025
Renewal Date
May 15, 2004
Date
OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
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100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
HORIZONTAL CONTROL PLAN

SHEET
L5.1

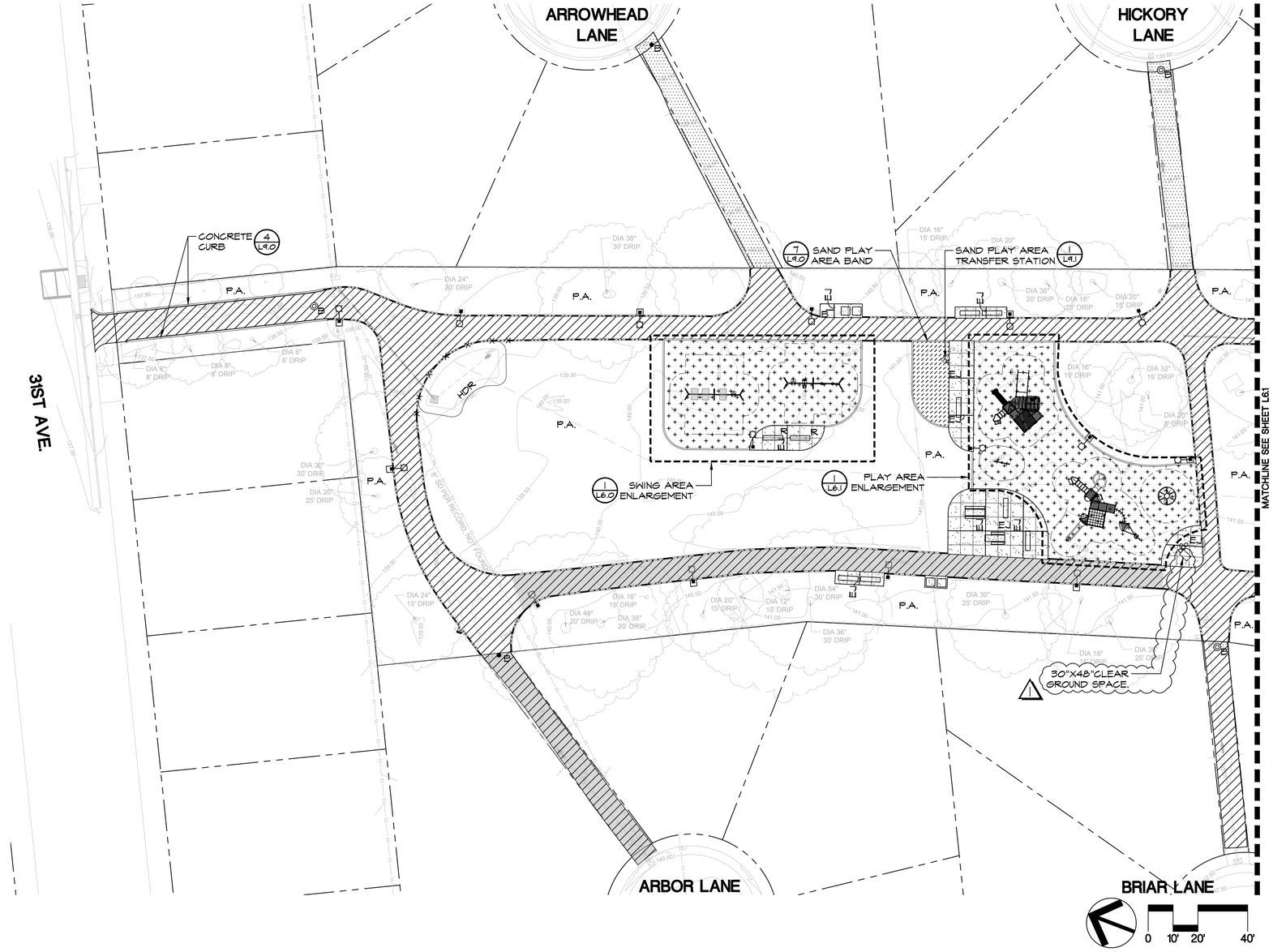
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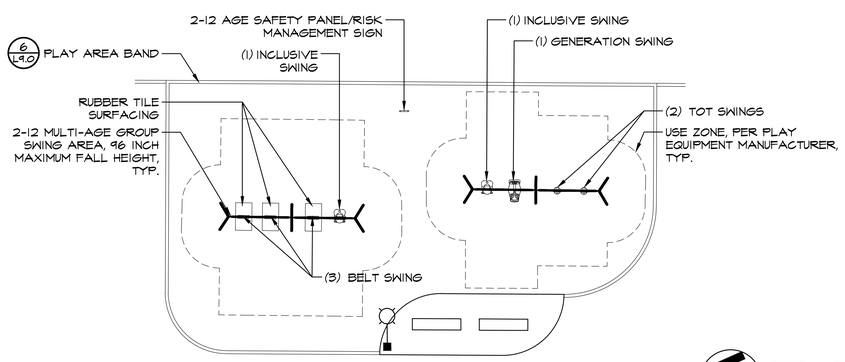
SITE CONSTRUCTION LEGEND

- PEDESTRIAN ASPHALT PAVEMENT / VEHICULAR ASPHALT PAVEMENT (1 / L9.0)
- SLURRY SEAL, PER SPECS
- CONCRETE PAVEMENT, EXPANSION JOINT, TYP. (2 / L9.0), SCORE JOINT, TYP. (3 / L9.0)
- SYNTHETIC TURF (8 / L9.0)
- RUBBER TILE SURFACING (9 / L9.0)
- PLAY AREA SAND
- PICNIC TABLE, ACCESSIBLE
- PICNIC TABLE
- BENCH
- BENCH, RELOCATED (R)
- BICYCLE RACK
- TRASH/RECYCLE RECEPTACLE
- DRINKING FOUNTAIN
- BOLLARD (4 / L9.1)
- BOLLARD, REMOVABLE (5 / L9.1)
- LIGHT FIXTURES, REFER TO ELECTRIACAL PLANS
- BIORETENTION FENCE (3 / L9.1)
- CONCRETE BAND, TYPE 1 / CONCRETE BAND, TYPE 2 (5 / L9.0)
- HDR — HEADERBOARD
- P.A. — PLANTING AREA
- EXISTING TREE TO REMAIN, TREE NUMBER, REFER TO ARBORIST REPORT

SITE CONSTRUCTION NOTES

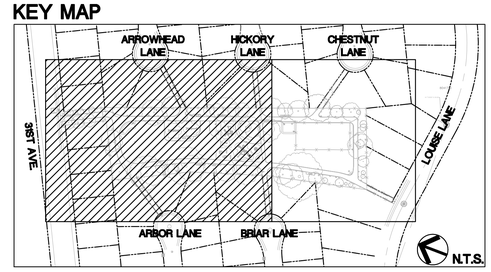
1. EXPANSION JOINTS: INSTALL EXPANSION JOINTS AS SHOWN ON DRAWINGS, AS WELL AS BETWEEN CONCRETE FLATWORK AND WALLS, CURBS, AND EXISTING FLATWORK OR STRUCTURES.
2. SLEEVING: REFER TO IRRIGATION PLAN FOR REQUIREMENTS OF SLEEVING UNDER PAVING.
3. PLAYGROUND SAFETY SURFACING IS SYNTHETIC TURF AND RUBBER TILE SURFACING. (1)





1 / L6.0 SWING AREA ENLARGEMENT PLAN

KEY MAP



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EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

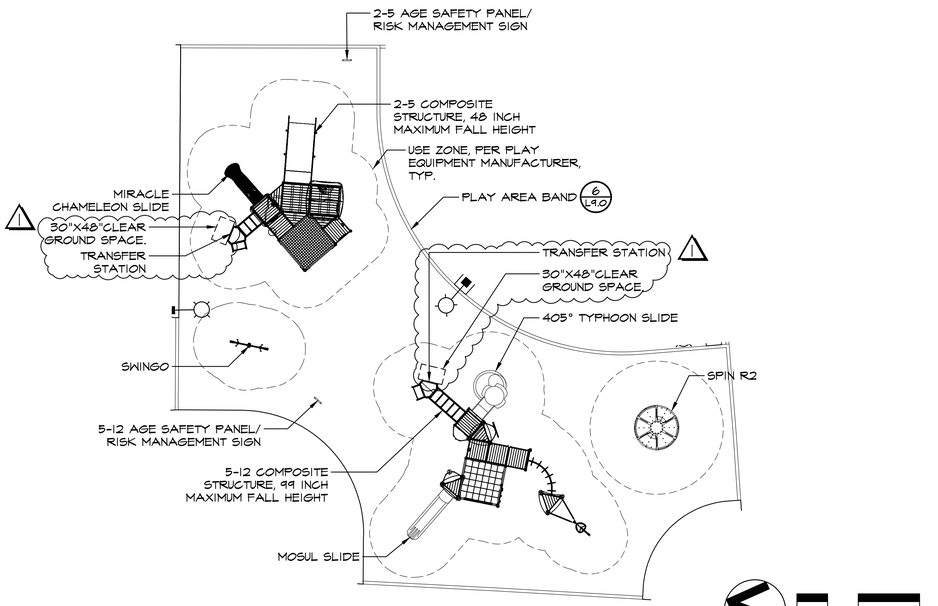
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CHECKED BY: BF/ZK
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SHEET TITLE
SITE CONSTRUCTION PLAN

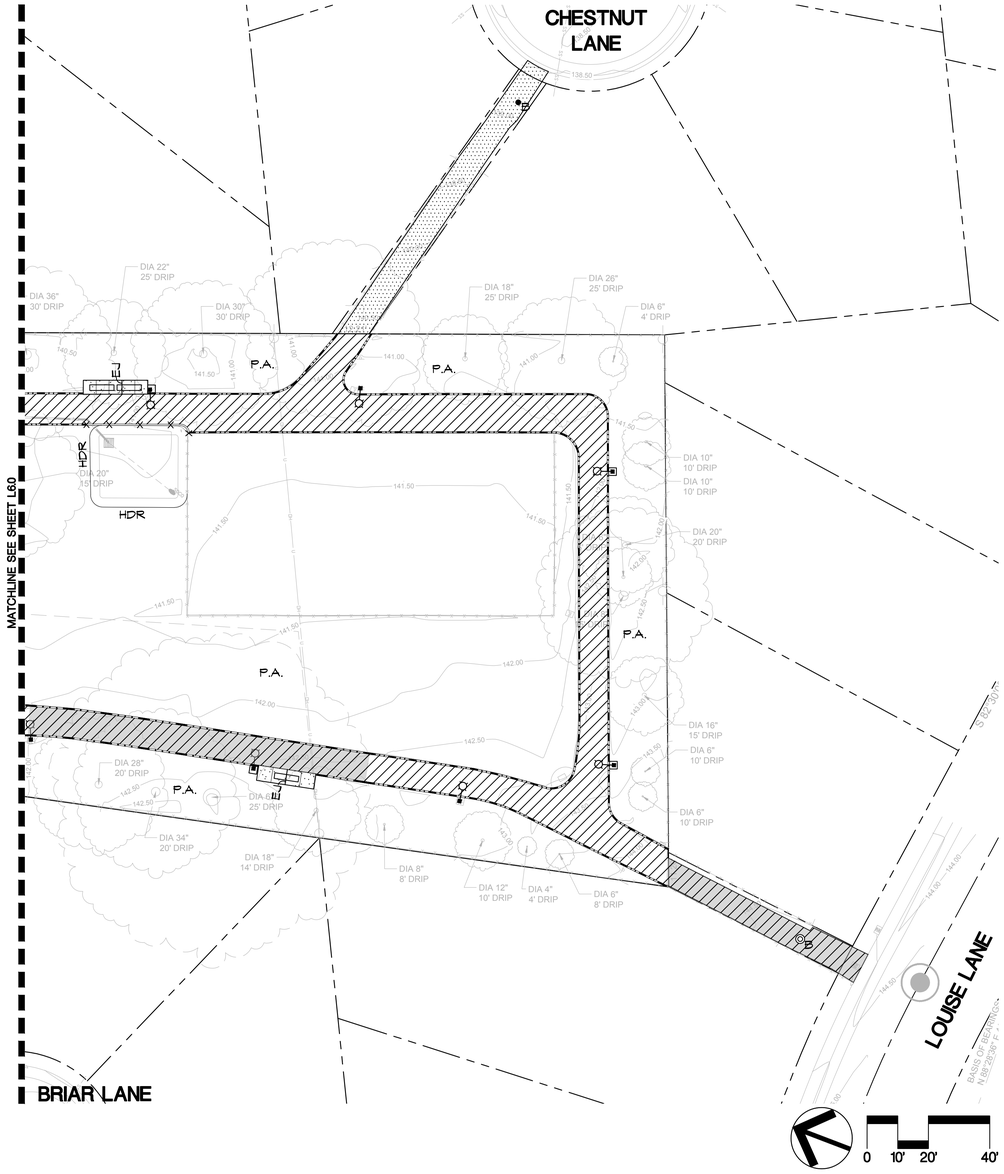
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L6.0

CITY OF SAN MATEO CALIFORNIA

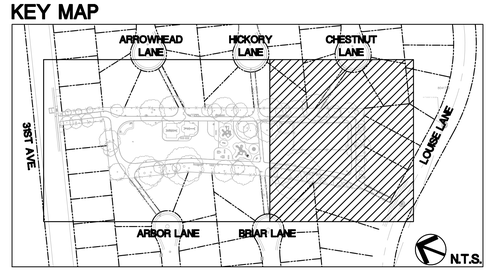
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1 L6.1 **PLAY AREA ENLARGEMENT PLAN**



KEY MAP



FOR SITE CONSTRUCTION LEGEND AND NOTES, SEE SHEET L6.0

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LICENSED LANDSCAPE ARCHITECT
Signature
Mar 31, 2025
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May 15, 2004
Date
OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
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SCALE: As Shown

SHEET TITLE
SITE CONSTRUCTION PLAN

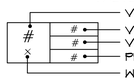
SHEET
L6.1

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IRRIGATION LEGEND

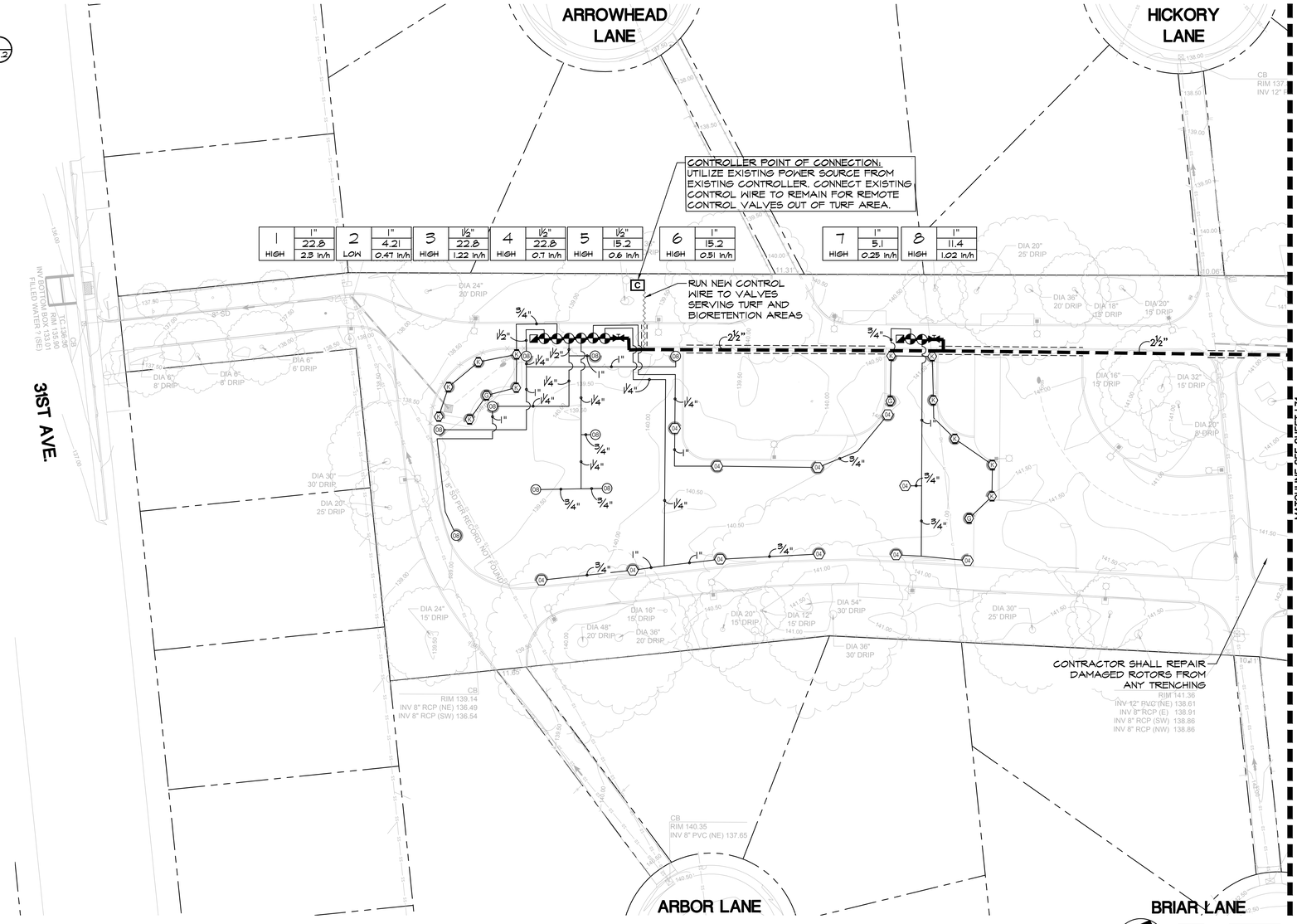
(V)(D)(B)	TURF SPRAY, HUNTER, PROS-06-PRS40-CV, MP2000 ROTATOR NOZZLE, ARC AS REQUIRED. (1 L9.2)
(B)(A)(A)	TURF SPRAY, HUNTER, PROS-06-PRS40-CV, MP3000 ROTATOR NOZZLE, ARC AS REQUIRED.
(VA)	TURF ROTOR, HUNTER, I-25-06-SS 04, ARC AS REQUIRED (2 L9.2)
(VB)	TURF ROTOR, HUNTER, I-40-06-SS 08, ARC AS REQUIRED
	REMOTE CONTROL VALVE, HUNTER, ICV SERIES, SIZE PER PLAN (9 L9.1) (5 L9.2)
	QUICK COUPLING VALVE, RAINBIRD, 44-LRC (4 L9.2)
	BALL VALVE, WATTS, LFFBV, LINE SIZE. INSTALL IN VALVE BOX (3 L9.2)
V	MASTER VALVE, SUPERIOR, 3100 SERIES, NORMALLY OPEN, LINE SIZE (8 L9.1)
C	CONTROLLER, CALSENSE, CS3-24-S-CS3-GR-KIT (7 L9.1)
FS	FLOW SENSOR CALSENSE, FM-2E, 2" SIZE (8 L9.1)
	LATERAL LINE, PCV SCH 40, SIZE PER PLAN
	MAINLINE, PVC CLASS 315, SIZE PER PLAN (7 L9.2)
	SLEEVE, PVC SCH 40, SIZE AS REQUIRED
	EXISTING REMOTE CONTROL VALVE
BF	EXISTING BACKFLOW PREVENTER, 2" SIZE
M	EXISTING WATER METER, 2" SIZE
	EXISTING MAINLINE
	EXISTING LATERAL LINE

VALVE CALLOUT

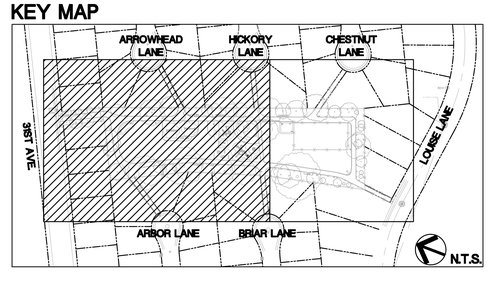


IRRIGATION NOTES

1. SPECIFICATIONS: SEE IRRIGATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. VERIFICATION: SYSTEM DESIGN IS BASED ON 90 P.S.I. AND 22.8 G.P.M. AVAILABLE AT DISCHARGE OUTLET OF METER OR OTHER POINT OF CONNECTION. VERIFY SAME AND NOTIFY CITY'S REPRESENTATIVE IF LOWER FIGURES ARE RECORDED DURING VERIFICATION. SUCH NOTICE SHALL BE MADE IN WRITING AND PRIOR TO COMMENCING ANY IRRIGATION WORK.
3. UTILITIES: VERIFY LOCATION OF ALL ON-SITE UTILITIES. RESTORATION OF DAMAGED UTILITIES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY.
4. SCHEMATIC: SYSTEM FEATURES ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. INSTALL ALL PIPING AND VALVES IN COMMON TRENCHES WHERE FEASIBLE AND INSIDE PLANTING AREAS WHENEVER POSSIBLE. ALL VALVES SHALL BE LOCATED IN GROUNDCOVER OR SHRUB AREAS WHENEVER POSSIBLE.
5. CODES: IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS. NOTIFY CITY'S REPRESENTATIVE BY TELEPHONE AND IN WRITING OF ANY CONFLICTS PRIOR TO INSTALLATION.
6. SLEEVING: ADEQUATELY SIZE ALL SLEEVES SHOWN ON PLAN. SLEEVES SHALL BE INSTALLED AT THE NECESSARY DEPTHS PRIOR TO PAVEMENT CONSTRUCTION. SLEEVING SHALL EXTEND 1'-0" FROM EDGE OF PAVING INTO LAWN OR PLANTING AREA, AND SHALL HAVE ENDS CLEARLY MARKED ABOVE GRADE.
7. QUICK COUPLING VALVES: INSTALL ON TRIPLE SWING JOINT. LOCATE 12 INCHES AWAY FROM EDGE OF WALKS, WALLS, CURBS, AND HEADERBOARDS WITHIN PLANTING AREAS. PROVIDE OWNER WITH ONE OPERATING KEY, TWO SETS OF LOCKING COVER KEYS, AND ONE SWIVEL HOSE ELL.
8. HEAD ALLOWANCE: ALLOW IN BID PRICE AN AMOUNT SUFFICIENT TO PROVIDE AND INSTALL AN ADDITIONAL FIVE (5) SPRAY HEADS AND ROTORS OF EACH TYPE SPECIFIED ON PLAN TO ACCOMMODATE FIELD CHANGES. THESE HEADS SHALL BE LOCATED AS DIRECTED BY THE CITY'S REPRESENTATIVE. DELIVER TO THE CITY ANY UN-USED ADDITIONAL HEADS AT THE END OF THE MAINTENANCE PERIOD.
9. CONTROLLER: INSTALL CONTROLLER IN ENCLOSURE PER MANUFACTURER'S RECOMMENDATION.
10. MAINLINE BREAK: SHOULD THE EXISTING MAINLINE BREAK OR BE SHUT OFF FOR ANY REASON DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR SHALL HAND WATER ALL TREES, SHRUBS, TURF, AND GROUNDCOVER THAT THE EXISTING IRRIGATION SYSTEM WATERS. CONTINUE TO DO SO UNTIL THE IRRIGATION SYSTEM IS OPERABLE.
11. EXISTING IRRIGATION SYSTEM: CONTRACTOR SHALL ENSURE THAT ALL EXISTING IRRIGATION IS IN WORKING CONDITION AND NOT DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL CONDUCT A PRE AND POST CONSTRUCTION TEST TO ENSURE WORKING CONDITION AND DOCUMENT ALL EXISTING DEFICIENCIES IN THE SYSTEM. PRIOR TO TESTING, CONTRACTOR SHALL VERIFY WITH THE CITY THAT THE WATER MAIN IS ON AND RUNNING FOR ALL SITES. ANY DAMAGES INCURRED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR ALL ASSOCIATED FEES. CONTRACTOR SHALL REVIEW MODIFIED IRRIGATION SYSTEM WITH CITY'S REPRESENTATIVE TO ENSURE HEAD TO HEAD COVERAGE HAS BEEN MAINTAINED AND SPRAY HEADS DO NOT OVERSPRAY ONTO NEW LANDSCAPE AREAS.



KEY MAP



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EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/24
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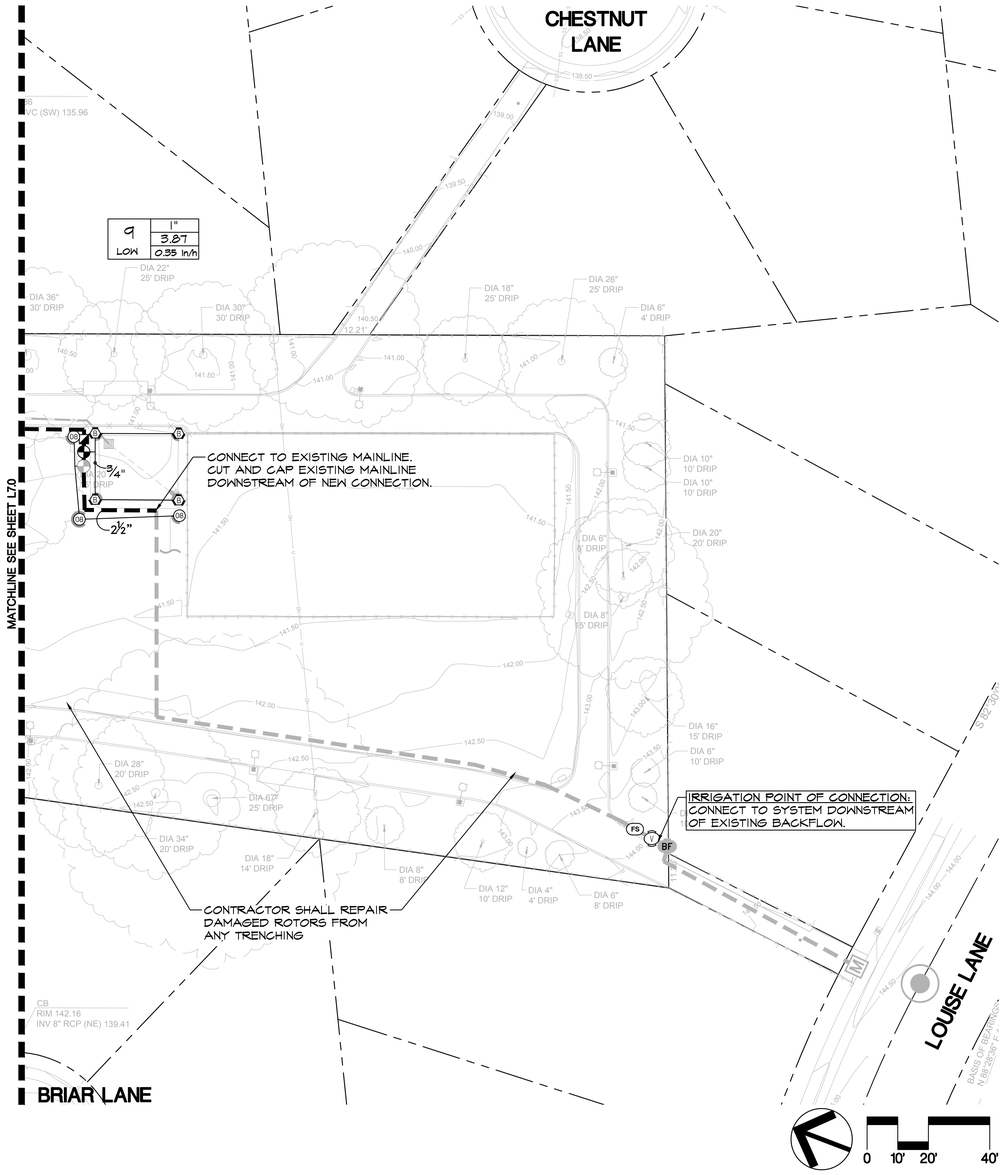
PROJECT NO: 22039
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SHEET TITLE
IRRIGATION PLAN

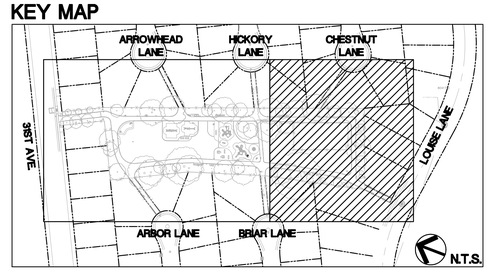
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L7.0

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KEY MAP



FOR IRRIGATION LEGEND AND NOTES, SEE SHEET L7.0

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100% Submittal	05/15/24

PROJECT NO: 22039
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SCALE: As Shown

SHEET TITLE
IRRIGATION PLAN

SHEET
L7.1

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PROJECT INFORMATION

A. DATE: SEE TITLE BLOCK

B. PROJECT APPLICANT: CITY OF SAN MATEO

C. PROJECT ADDRESS: 330 W. 20TH AVE., SAN MATEO, CA, 94403

D. TOTAL LANDSCAPE AREA: SEE WATER EFFICIENT LANDSCAPE WORKSHEET

E. PROJECT TYPE: PUBLIC

F. WATER SUPPLY TYPE: POTABLE

G. LANDSCAPE DOCUMENTATION PACKAGE CHECKLIST:

1. ✓ PROJECT INFORMATION
2. ✓ WATER EFFICIENT LANDSCAPE WORKSHEET
3. ___ *SOIL MANAGEMENT REPORT
4. ✓ LANDSCAPE DESIGN PLAN (SEE SHEET L6.0-L6.1)
5. ✓ IRRIGATION DESIGN PLAN (SEE SHEETL7.0-L7.1)
6. ✓ GRADING DESIGN (SEE CIVIL PLANS)
7. ___ #CERTIFICATE OF COMPLETION
8. ___ *CERTIFICATE OF INSTALLATION
9. ✓ IRRIGATION SCHEDULE
10. ___ *MAINTENANCE SCHEDULE
11. ___ **LANDSCAPE IRRIGATION AUDIT

*CONTRACTOR SHALL FURNISH UPON PROJECT COMPLETION.

#OWNER/OWNER'S REPRESENTATIVE SHALL FURNISH UPON PROJECT COMPLETION.

*CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF IRRIGATION AUDIT BY THE LOCAL AGENCY, OR A THIRD PARTY CERTIFIED LANDSCAPE IRRIGATION AUDITOR. LANDSCAPE AUDITS SHALL NOT BE CONDUCTED BY THE PERSON WHO DESIGNED THE LANDSCAPE OR INSTALLED THE LANDSCAPE. CONTRACTOR IS RESPONSIBLE TO PAY FOR ALL ASSOCIATED FEES.

H. PROJECT CONTACTS:

OWNER:
CITY OF SAN MATEO
KING LEONG
330 W. 20TH AVE.
SAN MATEO, CA 94403
PHONE: (650) 522-7542

LANDSCAPE ARCHITECT:
CALLANDER ASSOCIATES
DAVID RUBIN
1633 BAYSHORE HIGHWAY, SUITE 133
BURLINGAME, CA 94010
PHONE: (650) 375-1313
FAX: (650) 344-3290

LANDSCAPE DOCUMENTATION NOTES

1. MWELO CODES AND REFERENCES: A COPY OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) DOCUMENT CAN BE FOUND AT WATER.CA.GOV. REFER TO MWELO SECTION 492.9 FOR CERTIFICATE OF COMPLETION REQUIREMENTS AND APPENDIX C FOR SAMPLE OF CERTIFICATE OF COMPLETION AND CERTIFICATE OF INSTALLATION FORM.

2. IRRIGATION PLAN CONTROLLER COPY: THE CONTRACTOR SHALL PLACE A LAMINATED 11X17 COPY OF THE IRRIGATION PLAN SHOWING THE HYDROZONES WITHIN THE IRRIGATION CONTROLLER(S) CABINET FOR FUTURE MANAGEMENT USE.

WATER EFFICIENT LANDSCAPE WORKSHEET

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ETo) 41.8

Hydrozone # /Planting Description[a]	Plant Factor (PF)[f]	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Bio-Retention Turf	0.2	Overhead Spray	0.75	0.27	1,510	403	10,436
				Totals	1,510 (A)	403 (B)	
Special Landscape Areas							
Recreational Field				1	15,205	15,205	394,053
				1			
				1			
				Totals	15,205 (C)	15,205 (D)	
						ETWU Total	404,488
						Maximum Applied Water Allowance (MAWA)[e]	411,663

[a]Hydrozone #/Planting Description
E.g
1.) front lawn
2.) low water use plantings
3.) medium water use planting

[b]Irrigation Method
overhead spray
or drip

[c]Irrigation Efficiency
0.75 for spray head
0.81 for drip

***[d]ETWU* (Annual Gallons Required) =**
Eto x 0.62 x ETAF x Area
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

[e]MAWA (Annual Gallons Allowed) =
(Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet (including SLA). SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

[f]Plant Factor
(0.0 - 0.1) very low water use
(0.2 - 0.3) low water use
(0.4 - 0.6) medium water use
(0.7 - 1.0) high water use

ETAF Calculations

Regular Landscape Areas

Total ETAF x Area	403	(B)
Total Area	1,510	(A)
Average ETAF	**0.27**	**B ÷ A**

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas

Total ETAF x Area	15,608	(B + D)
Total Area	16,715	(A + C)
Sitewide ETAF	**0.93**	**(B + D) ÷ (A + C)**

IRRIGATION SCHEDULE

IRRIGATION SCHEDULE

Valve No.	Description	Plant Water Use (WUCOLS)	Landscape Coefficient (KL)	GPM Flow	Precip Rate	Irrigation Method	Irrigation Efficiency	Landscape Coefficient (KL)	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
									Redwood City	1.5	1.8	2.9	3.8	5.2	5.3	6.2	5.6	4.8	3.1	1.7	1	42.8
									% of July ETo	28%	34%	52%	74%	86%	97%	100%	95%	74%	57%	37%	28%	
									Minutes per Cycle	4	5	7	9	11	12	12	12	9	7	5	4	
									Days per Month	8	8	8	8	8	8	8	8	8	8	8	8	
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2	2	
1	Turf	High	0.48	22.8	1.25	Spray	0.75	0.48	Total Minutes per Month	64	80	112	144	176	192	192	192	144	112	80	64	
									Total Gallons	1,459	1,824	2,554	3,283	4,013	4,378	4,378	4,378	3,283	2,554	1,824	1,459	35,386
									Minutes per Cycle	9	11	16	23	26	30	31	29	23	18	12	9	
									Days per Month	7	7	7	7	7	7	7	7	7	7	7	7	
									Cycles per Day	1	1	1	1	1	1	1	1	1	1	1	1	
2	Turf	Low	0.20	4.21	0.47	Spray	0.75	0.20	Total Minutes per Month	63	77	112	161	182	210	217	203	161	126	84	63	
									Total Gallons	265	324	472	678	766	884	914	855	678	530	354	265	6,984
									Minutes per Cycle	5	6	9	12	14	16	17	16	12	10	6	5	
									Days per Month	13	13	13	13	13	13	13	13	13	13	13	13	
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2	2	
3	Turf	High	0.80	22.8	0.95	Spray	0.75	0.80	Total Minutes per Month	130	156	234	312	364	416	442	416	312	260	156	130	
									Total Gallons	2,964	3,557	5,335	7,114	8,299	9,485	10,078	9,485	7,114	5,928	3,557	2,964	75,878
									Minutes per Cycle	7	8	13	18	21	23	24	23	18	14	9	7	
									Days per Month	13	13	13	13	13	13	13	13	13	13	13	13	
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2	2	
4	Turf	High	0.80	22.8	0.65	Spray	0.75	0.80	Total Minutes per Month	182	208	338	468	546	598	624	598	468	364	234	182	
									Total Gallons	4,150	4,742	7,706	10,670	12,449	13,634	14,227	13,634	10,670	8,299	5,335	4,150	109,668
									Minutes per Cycle	8	9	14	19	22	25	26	25	19	15	10	8	
									Days per Month	13	13	13	13	13	13	13	13	13	13	13	13	
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2	2	
5	Turf	High	0.80	15.2	0.6	Spray	0.75	0.80	Total Minutes per Month	208	234	364	494	572	650	676	650	494	390	260	208	
									Total Gallons	3,162	3,557	5,533	7,509	8,694	9,880	10,275	9,880	7,509	5,928	3,952	3,162	79,040
									Minutes per Cycle	7	9	14	19	22	25	26	24	19	15	10	7	
									Days per Month	13	13	13	13	13	13	13	13	13	13	13	13	
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2	2	
6	Turf	High	0.80	15.2	0.61	Spray	0.75	0.80	Total Minutes per Month	182	234	364	494	572	650	676	624	494	390	260	182	
									Total Gallons	2,766	3,557	5,533	7,509	8,694	9,880	10,275	9,485	7,509	5,928	3,952	2,766	77,854
									Minutes per Cycle	17	20	31	44	51	57	59	56	44	34	22	17	
									Days per Month	13	13	13	13	13	13	13	13	13	13	13	13	
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2	2	
7	Turf	High	0.80	5.1	0.26	Spray	0.75	0.80	Total Minutes per Month	442	520	806	1,144	1,326	1,482	1,534	1,456	1,144	884	572	442	
									Total Gallons	2,254	2,652	4,111	5,834	6,763	7,558	7,823	7,426	5,834	4,508	2,917	2,254	59,935
									Minutes per Cycle	5	6	9	13	15	16	17	16	13	10	7	5	
									Days per Month	13	13	13	13	13	13	13	13	13	13	13	13	
									Cycles per Day	2	2	2	2	2	2	2	2	2	2	2	2	
8	Turf	High	0.80	11.4	0.93	Spray	0.75	0.80	Total Minutes per Month	130	156	234	338	390	416	442	416	338	260	182	130	
									Total Gallons	1,482	1,778	2,668	3,853	4,446	4,742	5,039	4,742	3,853	2,964	2,075	1,482	39,125
									Minutes per Cycle	12	14	22	30	35	40	41	39	30	24	15	12	
									Days per Month	7	7	7	7	7	7	7	7	7	7	7	7	
									Cycles per Day	1	1	1	1	1	1	1	1	1	1	1	1	
9	Turf	Low	0.20	3.87	0.35	Spray	0.75	0.20	Total Minutes per Month	84	98	154	210	245	280	287	273	210	168	105	84	
									Total Gallons	325	379	596	813	948	1,084	1,111	1,057	813	650	406	325	8,506
																					Total Gallons Per Year	**468,496**

NOTES:

1. WATERING WINDOW: THIS IRRIGATION SCHEDULE IS BASED ON AN 8 HOUR WATERING WINDOW WITH 5 DAYS OF OPERATION PER WEEK. OVERHEAD IRRIGATION SHALL BE SCHEDULED BETWEEN 8:00 PM AND 10:00 AM.

2. VALVE OPERATION: THIS SCHEDULE IS NOT A "STACKING" SCHEDULE, AND DOES NOT OUTLINE WHICH VALVES SHOULD RUN AT THE SAME TIME. ALL PROGRAMMING AND STACKING SHALL BE WITHIN THE LIMITS OF THE AVAILABLE WATER PRESSURE.

3. SCHEDULE ADJUSTMENTS: DUE TO VARIABLE AND UNFORESEEN SITE CONDITIONS, THE IRRIGATION SYSTEM RUN TIMES MAY NEED TO BE ADJUSTED TO ENSURE THAT PROPER MOISTURE IS MAINTAINED IN THE LANDSCAPE.

4. PLANT ESTABLISHMENT PERIOD: CONTRACTOR SHALL PROVIDE THE IRRIGATION SCHEDULE DURING THE PLANT ESTABLISHMENT PERIOD. INCREASE THE OPERATION RUN TIME BY AT LEAST 20% AND DAYS OF OPERATION BY AT LEAST ONE DAY PER WEEK.

"I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE 'MODEL WATER EFFICIENT LANDSCAPE ORDINANCE' AND SUBMIT A COMPLETE 'LANDSCAPE DOCUMENTATION PACKAGE' "

DAVID RUBIN
SIGNATURE

100% SUBMITTAL - NOT FOR CONSTRUCTION

CALA
1633 Bayshore Highway, Suite 133
Burlingame, CA 94010
T 650.375.1313
www.callanderassociates.com

REVISION DATE

LICENSED LANDSCAPE ARCHITECT
DAVID C. RUBIN
No. 5132
Registered
May 31, 2025
Renewal Date
May 15, 2024
Date
STATE OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

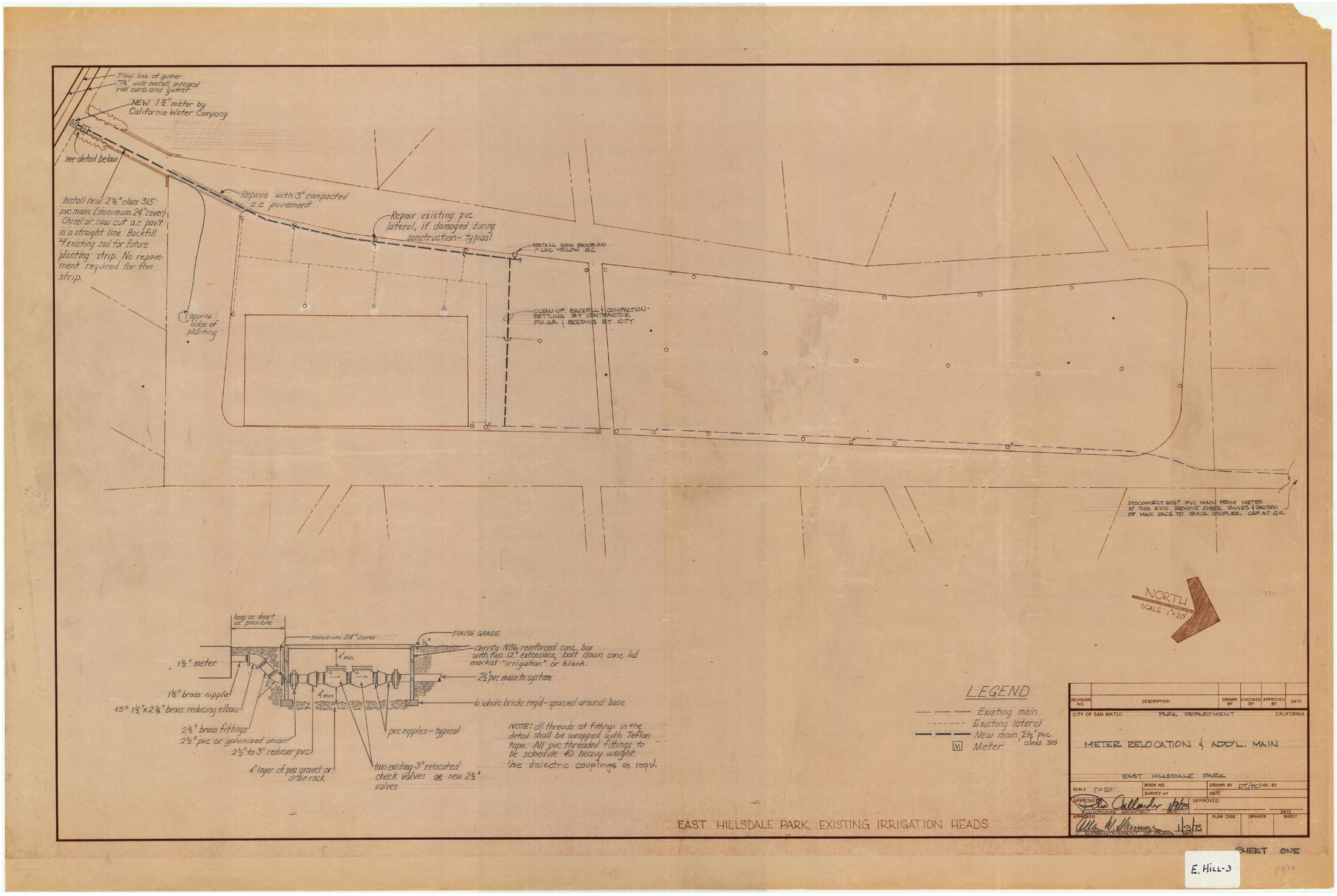
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90% Submittal	02/14/24
100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
LANDSCAPE DOCUMENTATION

SHEET
L7.2

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REVISION	DATE

LICENSED LANDSCAPE ARCHITECT
BRUCE FIELD
No. 2498
Signature
Mar 31, 2025
Renewal Date
May 15, 2024
Date
STATE OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

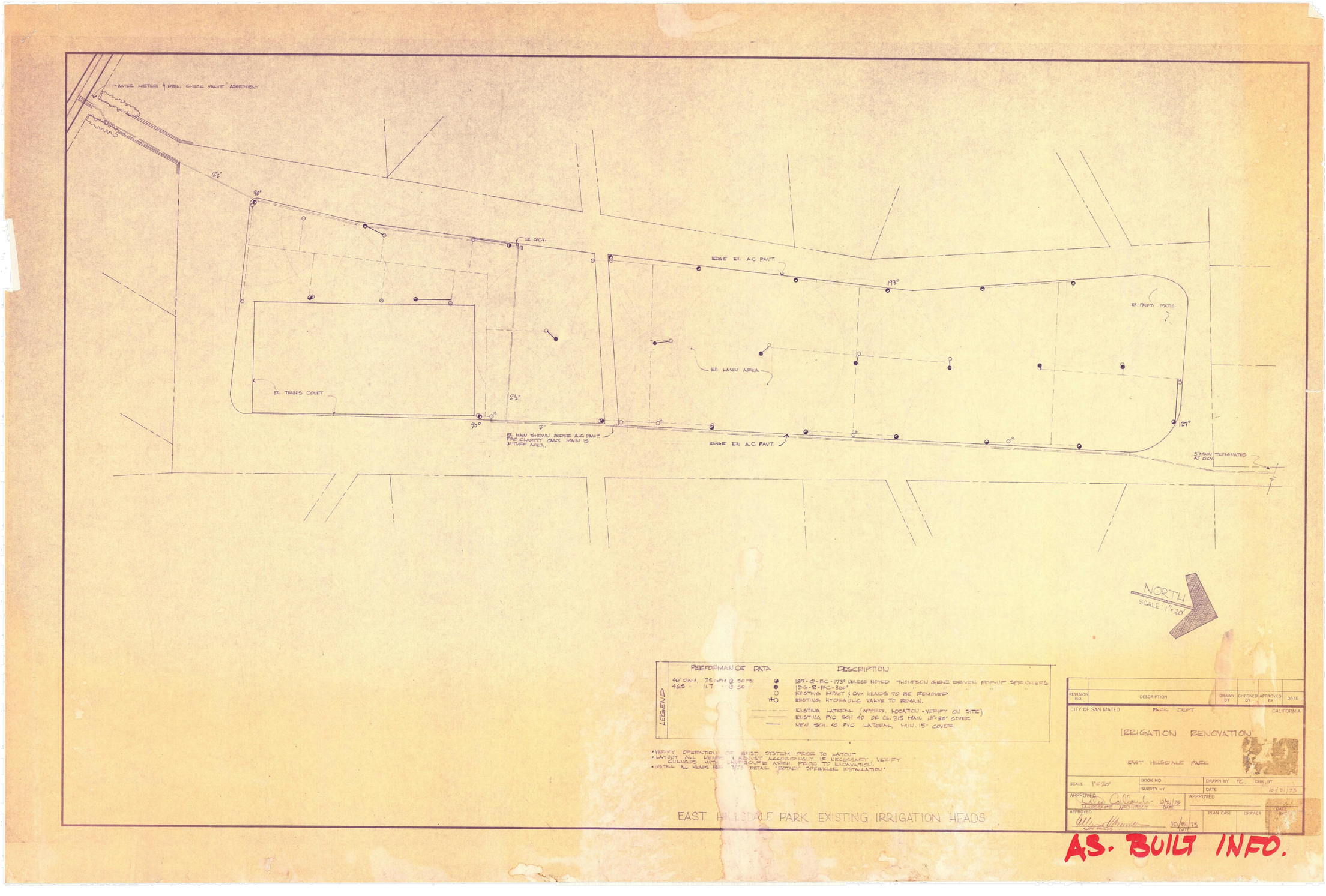
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SHEET TITLE
IRRIGATION AS BUILTS

SHEET
L7.3

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REVISION	DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Mar 31, 2020
Renewal Date
May 15, 2004
Date
STATE OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
IRRIGATION AS BUILTS

SHEET
L7.4

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PLANT LIST

TURF FROM SOD
90/10 TALL FESCUE, AVAILABLE THROUGH DELTA BLUEGRASS COMPANY, (800) 637-8873

BIOFILTRATION TURF
BIORETENTION SOD, AVAILABLE THROUGH DELTA BLUEGRASS COMPANY, (800) 637-8873

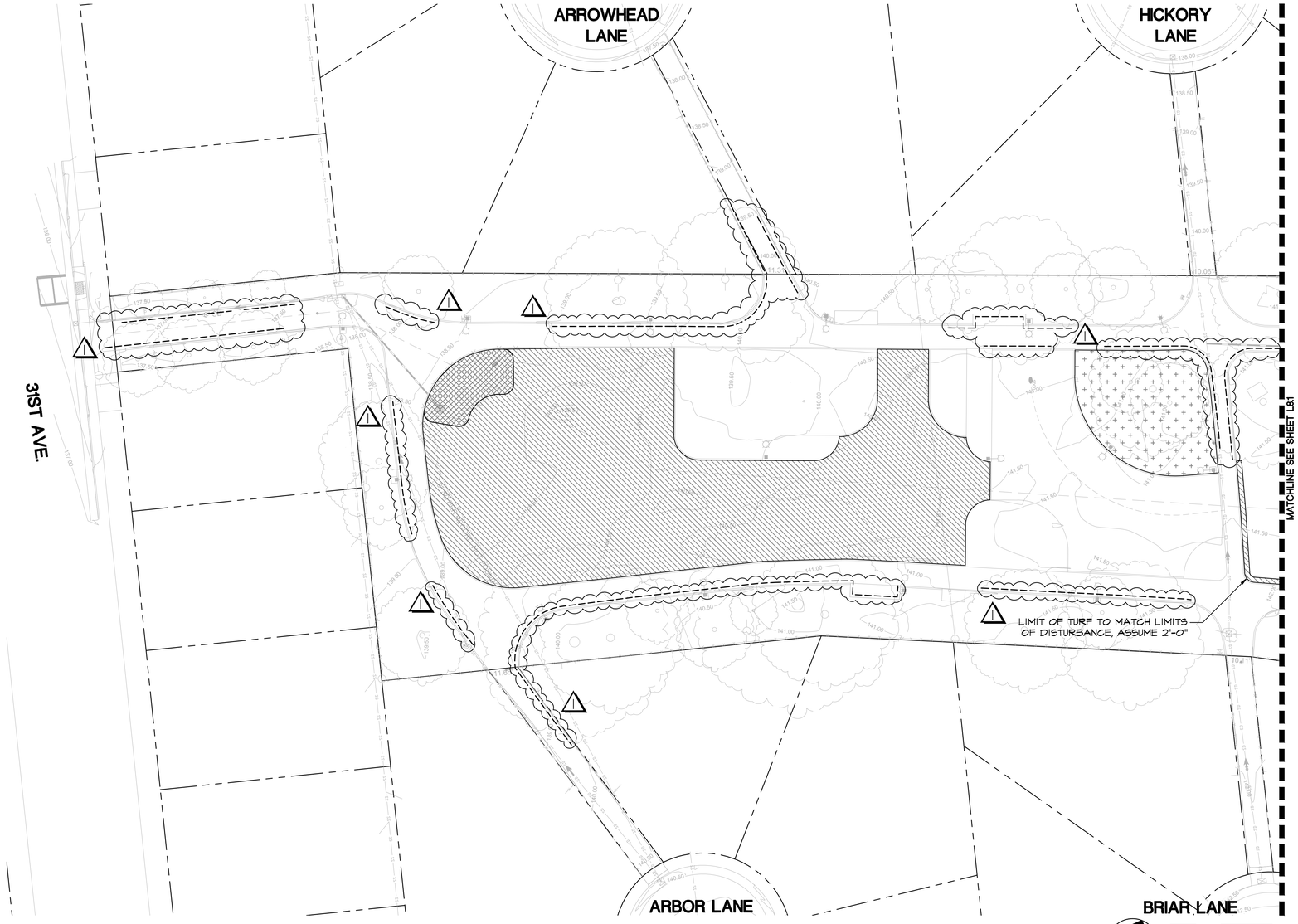
MULCH ONLY WITHOUT PLANTING

1 ROOT BARRIER. DEEP ROOT CORP. #UB18. INSTALL FLUSH WITH INSIDE FACE OF CURB OR PAVING IN LOCATIONS INDICATED. SHOWN ON OUTSIDE OF CURB FOR GRAPHIC PURPOSES ONLY.

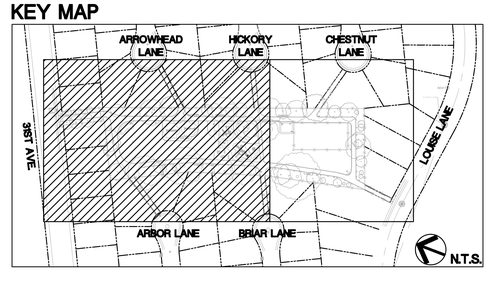
PLANTING NOTES

1. EXISTING PLANT MATERIAL: PROTECT ALL EXISTING PLANT MATERIAL TO REMAIN. REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.

2. TOPSOIL: ALL PLANTING AREAS TO RECEIVE A SIX INCH LAYER OF NATIVE TOPSOIL PER SPECIFICATIONS.



KEY MAP



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CALA
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REVISION	DATE
1 Building Resubmittal	05/15/24

LICENSED LANDSCAPE ARCHITECT
Signature
Mar 31, 2000
Renewal Date
May 15, 2024
Date
STATE OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

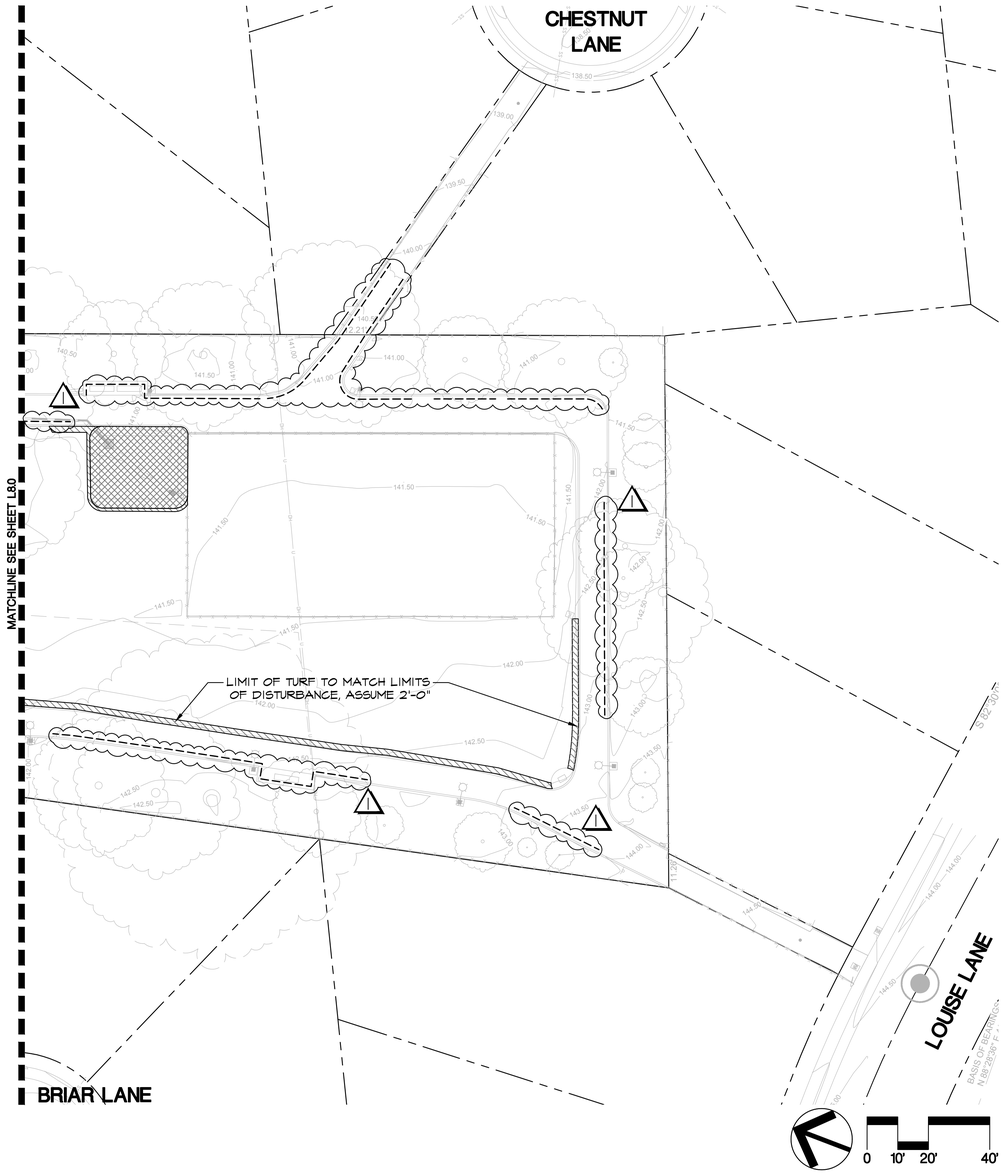
ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
PLANTING PLAN

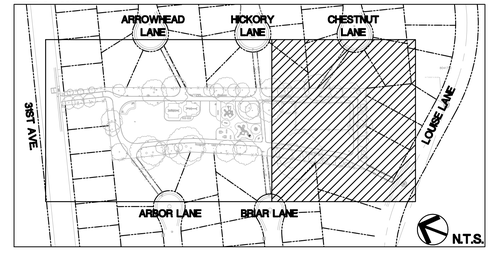
SHEET
L8.0

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FOR PLANTING LEGEND AND NOTES, SEE SHEET L8.0

KEY MAP



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REVISION	DATE
1 Building Resubmittal	05/15/24

LICENSED LANDSCAPE ARCHITECT
Signature
Mar 31, 2025
Renewal Date
May 15, 2024
Date
STATE OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

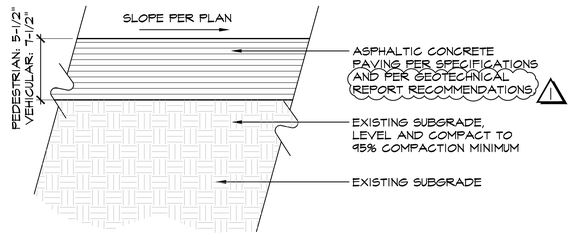
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90% Submittal	02/14/24
100% Submittal	05/15/24

PROJECT NO: 22039
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CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
PLANTING PLAN

SHEET
L8.1

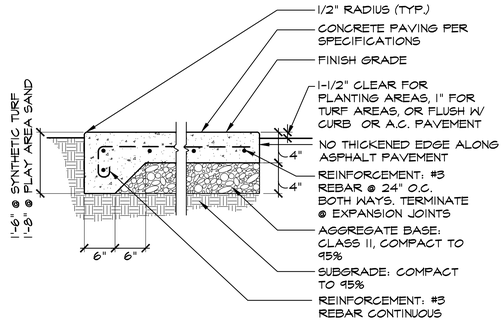
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1 L9.0 ASPHALT PAVEMENT SECTION

0 1/4' 1/2' 1'

22039_Asphalt Pavement 4.dwg

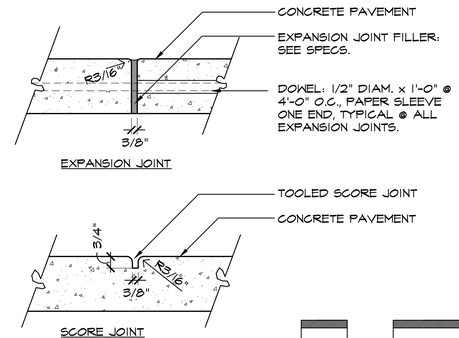


2 L9.0 CONCRETE PAVEMENT SECTION

0 1/2' 1' 2'

22039_Concrete Pavement 2 12.dwg

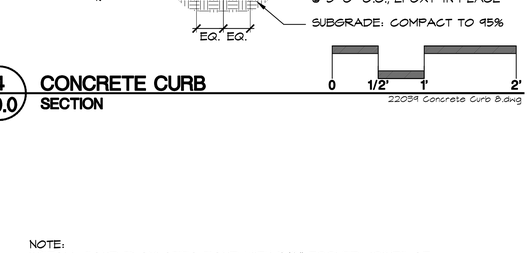
NOTE:
1. DISCONTINUE REBAR 3" FROM ALL EXPANSION JOINTS



3 L9.0 CONCRETE JOINTS SECTION

0 3" 6" 12"

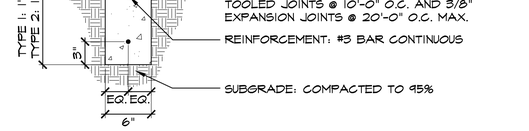
22039_Concrete Joints 1 4.dwg



4 L9.0 CONCRETE CURB SECTION

0 1/2' 1' 2'

22039 Concrete Curb 8.dwg

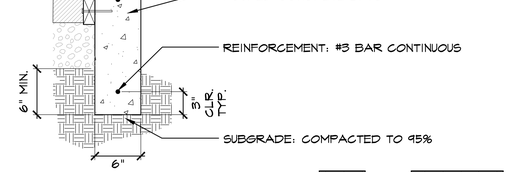


5 L9.0 CONCRETE BAND, TYPE 1 & 2 SECTION

0 1/2' 1' 2'

22039_Concrete Mowband 8.dwg

NOTE: INSTALL PLAY AREA BAND WITH 3/8" TOOLED JOINTS AT 10'-0" O.C. AND 3/8" EXPANSION JOINTS @ 20'-0" O.C. MAX.

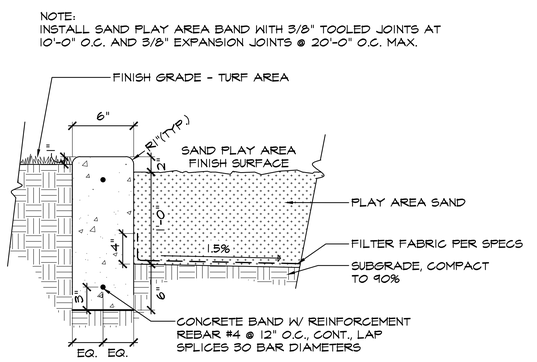


6 L9.0 PLAY AREA BAND SECTION

0 1/2' 1' 2'

22039_PlayAreaBand_8.dwg

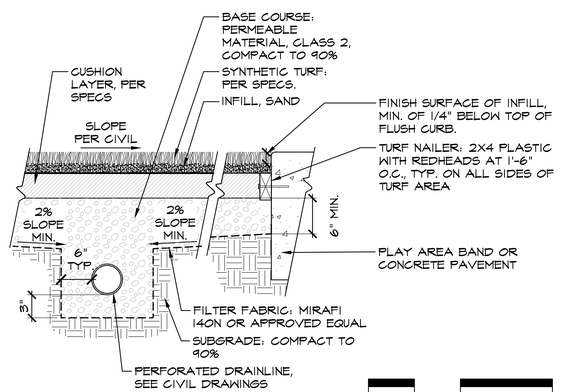
NOTE:
INSTALL SAND PLAY AREA BAND WITH 3/8" TOOLED JOINTS AT 10'-0" O.C. AND 3/8" EXPANSION JOINTS @ 20'-0" O.C. MAX.



7 L9.0 SAND PLAY AREA BAND SECTION

0 1/2' 1' 2'

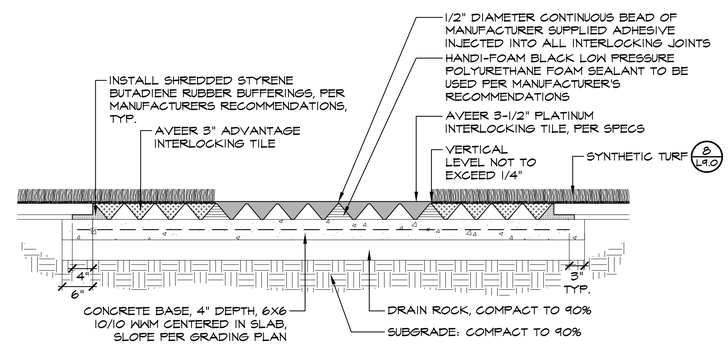
22039_SandPlayAreaCurb_8.dwg



8 L9.0 SYNTHETIC TURF SECTION

0 1/2' 1' 2'

22039_SyntheticTurf_8.dwg



9 L9.0 RUBBER TILE SURFACING SECTION

0 1/2' 1' 2'

22039_RubberTiles_12.dwg

100% SUBMITTAL - NOT FOR CONSTRUCTION

CALA
1633 Bayshore Highway, Suite 133
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REVISION	DATE
Building Resubmittal	05/15/24

LICENSED LANDSCAPE ARCHITECT
Signature
Mar 31, 2020
Renewal Date
May 15, 2024
Date
OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS
SAN MATEO, CALIFORNIA

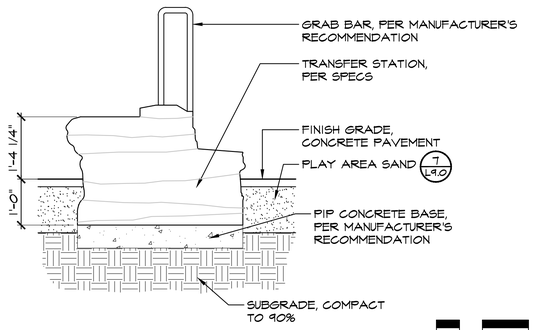
ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
LANDSCAPE DETAILS

SHEET
L9.0

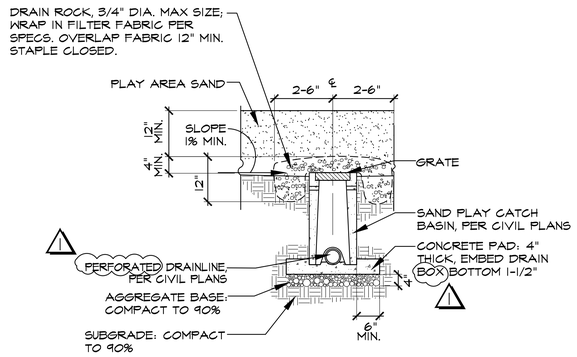
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1 L9.1 SAND PLAY AREA TRANSFER STATION
SECTION

0 1/2' 1' 2'

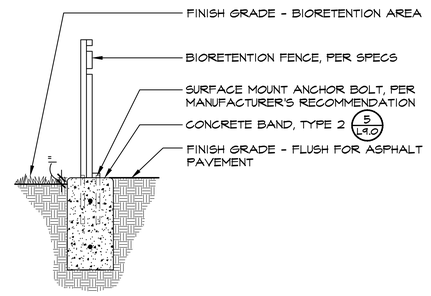
22039_TransferStation_16.dwg



2 L9.1 SAND PLAY AREA CATCH BASIN
SECTION

0 1/2' 1' 2'

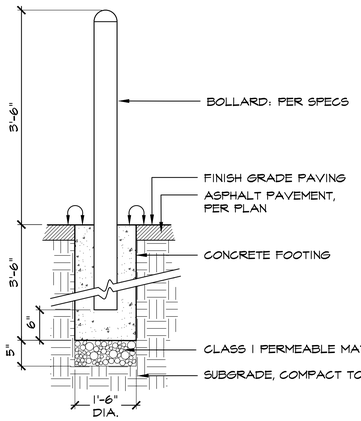
22039_PlayAreaCatchBasin_16.dwg



3 L9.1 BIORETENTION FENCE
SECTION

0 1/2' 1' 2'

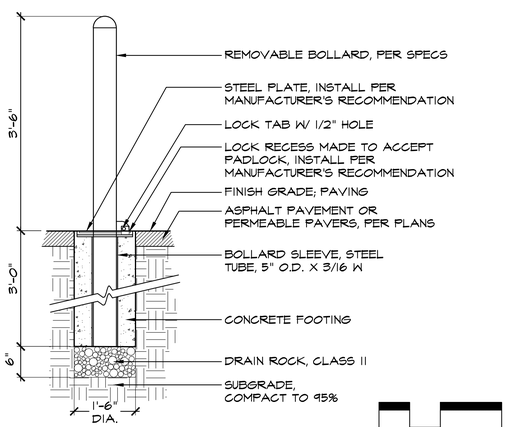
22039_BioretentionFence_8.dwg



4 L9.1 BOLLARD, PERMANENT
SECTION

0 1/2' 1' 2'

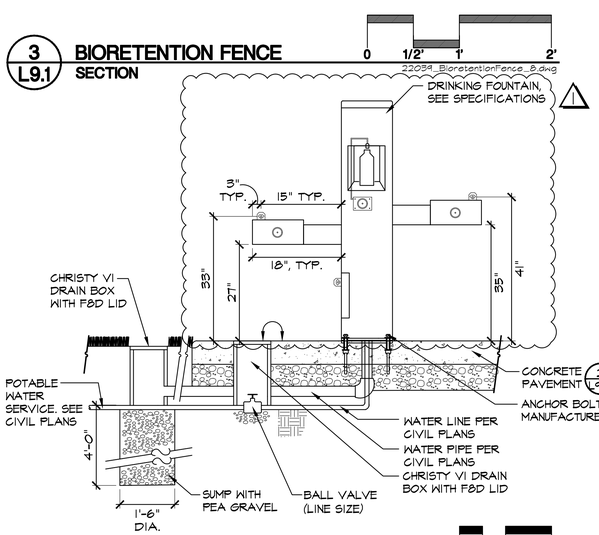
22039_BollardPermanent_12.dwg



5 L9.1 BOLLARD, REMOVABLE
SECTION

0 1/2' 1' 2'

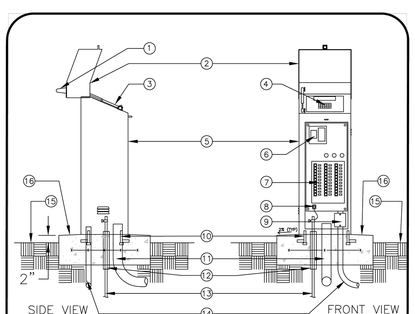
22039_BollardRemovable_12.dwg



6 L9.1 DRINKING FOUNTAIN
SECTION

0 1/2' 1' 2'

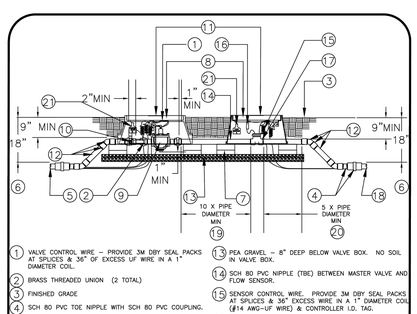
22039_DrinkingFountain_16.dwg



1. LOCAL RADIO DOME (LR-DOME) OR LOCAL RADIO & RADIO REMOTE OPTION (LR-DOME-RR) AS SPECIFIED.
2. FLIP TOP IN OPEN POSITION
3. PISTON CONNECTED TO FLIP TOP.
4. CONTROLLER PANEL MOUNTED FLUSH ON FACE OF ENCLOSURE AT 25 DEGREE ANGLE FOR EASY ACCESS & VIEWING.
5. STAINLESS STEEL ENCLOSURE WITH DOME ANTENNA
6. GFI OUTLET & SWITCH.
7. TP-1 TRANSIENT PROTECTION BOARD.
8. #6 AWG GROUNDING WIRE CONNECTED TO GROUNDING LUG.
9. 120 VAC JUNCTION BOX (INCLUDED WITH ENCLOSURE)
10. MOUNTING BOLTS (BOLTS & TEMPLATE INCLUDED WITH ENCLOSURE)
11. SCH 40 PVC SWEEP ELL FOR LOW VOLTAGE WIRES FROM CONTROLLER TO FIELD.
12. SCH 40 PVC SLEEVE THRU CONCRETE FOR GROUND ROD.
13. ¾" X 8' LONG COPPER GROUND ROD PER CODE.
14. SCH 40 PVC ELECTRICAL SWEEP ELL FOR 120 VAC POWER TO CONTROLLER.
15. FINISHED GRADE.
16. 8" THICK, CONCRETE FOOTING REINFORCED WITH 10 GA 6 X 6 WELDED WIRE MESH.

8	CALSENSE SSE-R ENCLOSURE & CONTROLLER WITH TRANSIENT PROTECTION	
2017	NOT TO SCALE	I-CT-03

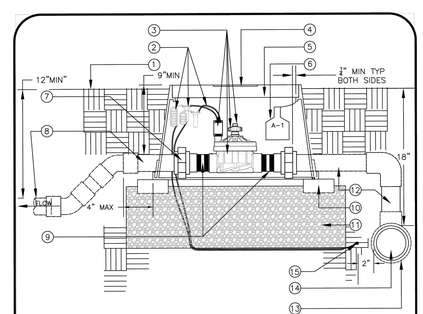
7 L9.1 CONTROLLER
SECTION



1. VALVE CONTROL WIRE – PROVIDE 3M DBY SEAL PACKS AT SPLICES & 36" OF EXCESS UF WIRE IN A 1" DIAMETER COIL.
2. BRASS THREADED UNION (2 TOTAL)
3. FINISHED GRADE
4. SCH 80 PVC TOE NIPPLE WITH SCH 80 PVC COUPLING.
5. PVC MAINLINE IN-FLOW.
6. PROVIDE 18" OF SOIL COVER.
7. BRICKS AT EACH CORNER OF VALVE BOXES AS REQ'D.
8. RECTANGULAR PLASTIC VALVE BOX WITH BOLT-DOWN LID. BOX & LID SHALL BE SIZED TO ACCOMMODATE ALL DIMENSIONS SHOWN. SEE SPECS FOR MORE INFO.
9. NORMALLY OPENED MASTER CONTROL WITH FLOW CONTROL & MANUAL BLEED. TYPE AND SIZE AS INDICATED IN LEGEND AND/OR SPECS.
10. THREADED BRASS BALL VALVE AS SPECIFIED.
11. HOT STAMPED I.D. INDICATING "MASTER VALVE" OR "FLOW SENSOR" CENTERED ON TOP OF LID.
12. SCH 80 PVC NIPPLES (TBE), 45 DEGREE SCH 80 THREADED PVC ELBOWS & COUPLINGS AS REQUIRED.
13. PEA GRAVEL – 8" DEEP BELOW VALVE BOX. NO SOIL IN VALVE BOX.
14. SCH 80 PVC NIPPLE (TBE) BETWEEN MASTER VALVE AND FLOW SENSOR.
15. SENSOR CONTROL WIRE. PROVIDE 3M DBY SEAL PACKS AT SPLICES & 36" EXCESS WIRE IN A 1" DIAMETER COIL (#14 AWG-UF WIRE) & CONTROLLER I.D. TAG.
16. 0.067 AMP FUSE LINK TO PROTECT METERING INSERT.
17. FLOW SENSOR – WIRE TO CONTROLLER AS DIRECTED BY MANUFACTURER'S REPRESENTATIVE (SIZE AS SPECIFIED).
18. PVC MAINLINE OUTFLOW TO IRRIGATION SYSTEM.
19. MIN TEN (10) X PIPE DIAMETER. (EXAMPLE: 10 X 2½" PIPE = 25" MIN.
20. MIN FIVE (5) x THE PIPE DIAMETER. (EXAMPLE: 5 X 2½" PIPE = 12½" MIN.
NOTE: INSTALL FLOW SENSOR TO ALLOW STRAIGHT FLOW OF 10 X DIAMETER OF MAINLINE PIPE ON THE INLET SIDE AND 5 X DIAMETER OF MAINLINE PIPE ON THE OUTLET SIDE OF THE FLOW SENSOR.
21. FLEXIBLE PLASTIC VALVE I.D. TAG WITH CONTROLLER LETTER.

5	MASTER VALVE & FLOW METER ASSEMBLY	
DATE: 2017	NOT TO SCALE	DRAWING NO: I-MV-01

8 L9.1 MASTER VALVE
SECTION



1. FINISHED GRADE
2. LOW VOLTAGE WIRES TO VALVE – PROVIDE 3M DBY SEAL PACKS AT SPLICES, & 36" EXCESS WIRE IN A 1" DIAMETER COIL.
3. REMOTE CONTROL VALVE WITH FLOW CONTROL, MANUAL BLEED & ENCAPSULATED 24 VAC SOLENOID.
4. HOT STAMPED I.D. INDICATING "REMOTE CONTROL VALVE" AND STATION CONTROLLER LETTER & STATION NUMBER CENTERED ON TOP OF LID.
5. RECTANGULAR PLASTIC VALVE BOX WITH BOLT-DOWN LID. BOX AND LID SHALL BE SIZED TO ACCOMODATE ALL DIMENSIONS SHOWN.
6. FLEXIBLE PLASTIC I.D. TAG LABELED WITH THE CONTROLLER LETTER AND STATION NUMBER DESIGNATION AS SHOWN.
7. SCH 80 PVC SLIP X THREAD UNION (TYP).
8. PVC LATERAL LINE (REFER TO LEGEND / SPECS FOR CLASS / SCHEDULE) W/ SCH 40 FITTINGS. DEPTH OF PIPE TO COMPLY WITH SHOWN DIMENSIONS.
9. SCH 80 PVC NIPPLE (TBE).
10. BRICKS AT EACH CORNER OF VALVE BOX AS REQ'D. EMBED HALFWAY INTO PEA GRAVEL.
11. PEA GRAVEL – 8" DEEP. NO SOIL IN VALVE BOX.
12. MAINLINE PIPING FROM MAINLINE TEE AND UNION.
13. SCH 80 PVC MAINLINE TEE.
14. PVC MAINLINE INFLOW.
15. LOW VOLTAGE WIRE BUNDLE.

13	REMOTE CONTROL VALVE ASSEMBLY – GLOBE CONFIGURATION	
2017	NOT TO SCALE	I-RCV-01

9 L9.1 REMOTE CONTROL VALVE
SECTION

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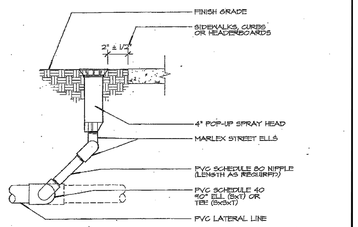
ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
LANDSCAPE DETAILS

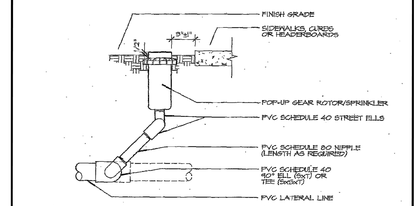
SHEET
L9.1

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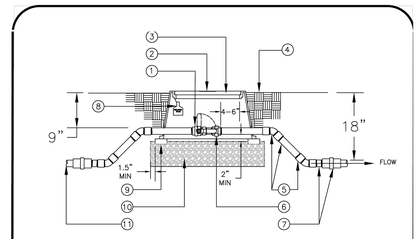
29 | 2017 | 6" SPRAY HEAD RISER ASSEMBLY | NOT TO SCALE | 2-SHD-2

1 L9.2 TURF SPRAY SECTION



30 | 2017 | POP UP ROTOR RISER ASSEMBLY | NOT TO SCALE | 1-PUR-1

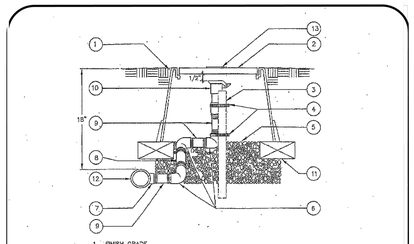
2 L9.2 TURF ROTOR SECTION



1. TREADED BRASS BALL VALVE AS SPECIFIED.
2. HOT STAMPED I.D. INDICATING "ISOLATION VALVE" CENTERED ON TOP OF LID.
3. RECTANGULAR PLASTIC VALVE BOX WITH BOLT-DOWN LID. BOX AND LID SHALL BE SIZED TO ACCOMODATE ALL DIMENSIONS SHOWN AND ISOLATION VALVE ON/OFF OPERATION.
4. FINISHED GRADE
5. SCH 80 PVC NIPPLES (TBE), 45 DEGREE SCH 80 THREADED PVC ELBOWS & COUPLINGS AS REQ'D.
6. BRASS THREADED UNION
7. SCH 80 PVC NIPPLE (TOE) WITH SCH 80 PVC COUPLING AS REQUIRED.
8. FLEXIBLE PLASTIC I.D. TAG LABELED ISOLATION VALVE
9. BRICKS AT EACH CORNER OF VALVE BOX AS REQ'D. EMBED HALFWAY INTO PEA GRAVEL.
10. PEA GRAVEL – 8" DEEP. NO SOIL IN VALVE BOX.
11. PVC MAINLINE INFLOW

10 | 2017 | ISOLATION VALVE | NOT TO SCALE | I-IV-03

3 L9.2 BALL VALVE SECTION

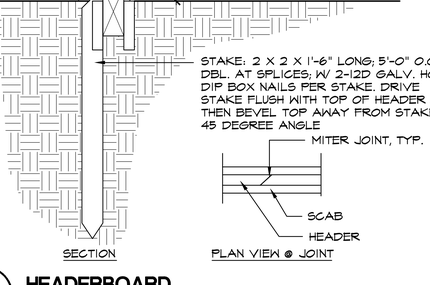


1. FINISH GRADE.
2. 10" ROUND PLASTIC VALVE BOX WITH BOLT-DOWN LID AND EXTENSIONS IF NECESSARY.
3. 1" x 3/16" x 30" ANGLE IRON.
4. STAINLESS STEEL CLAMPS.
5. PEA GRAVEL – 8" DEEP(NO SOIL IN VALVE BOX)
6. PVC SCHEDULE 80 – 90 DEGREE ELL. (T x T).
7. PVC SCHEDULE 80 TEE (S x S x T) OR 90 DEGREE ELL (S x T) CONNECTED TO IRRIGATION SUPPLY LINE.
8. PVC SCHEDULE 80 – 12" NIPPLE(TBE).
9. PVC SCHEDULE 80 – 3" NIPPLE(TBE).
10. QUICK COUPLING VALVE.
11. BRICK BASE – 2 TOTAL, 180 DEG. APART.
12. MAIN LINE SERVICE TEE(SOLVENT WELD OR GASKETED x FIPT OUTLET– REFER TO IRRIGATION LEGEND OR SPECIFICATIONS).
13. BRASS ID TAG INDICATING "QUICK COUPLING VALVE". CENTERED AND RIVETED TO TOP OF LID.

NOTE: SET TOP OF BOX 1" ABOVE FINISH GRADE IN PLANTING BEDS.

27 | 2017 | QUICK COUPLER VALVE | NTS | NOT TO SCALE | 1-QCV-1

4 L9.2 QUICK COUPLING VALVE SECTION



1. FINISHED GRADE
2. LOW VOLTAGE WIRES TO VALVE – PROVIDE 3M DBY SEAL PACKS AT SPLICES, & 36" EXCESS WIRE IN A 1" DIAMETER COIL.
3. REMOTE CONTROL VALVE WITH FLOW CONTROL, MANUAL BLEED & ENCAPSULATED 24 VAC SOLENOID.
4. HOT STAMPED I.D. INDICATING "REMOTE CONTROL VALVE" AND STATION CONTROLLER LETTER & STATION NUMBER CENTERED ON TOP OF LID.
5. RECTANGULAR PLASTIC VALVE BOX WITH BOLT-DOWN LID. BOX AND LID SHALL BE SIZED TO ACCOMODATE ALL DIMENSIONS SHOWN.
6. FLEXIBLE PLASTIC I.D. TAG LABELED WITH THE CONTROLLER LETTER AND STATION NUMBER DESIGNATION AS SHOWN.
7. SCH 80 PVC SLIP X THREAD UNION (TYP).
8. PVC LATERAL LINE (REFER TO LEGEND / SPECS FOR CLASS / SCHEDULE) W/ SCH 40 FITTINGS. DEPTH OF PIPE TO COMPLY WITH SHOWN DIMENSIONS.
9. SCH 80 PVC NIPPLE (TBE).
10. BRICKS AT EACH CORNER OF VALVE BOX AS REQ'D. EMBED HALFWAY INTO PEA GRAVEL.
11. PEA GRAVEL – 8" DEEP. NO SOIL IN VALVE BOX.
12. MAINLINE PIPING FROM MAINLINE TEE AND UNION.
13. SCH 80 PVC MAINLINE TEE.
14. PVC MAINLINE INFLOW.
15. LOW VOLTAGE WIRE BUNDLE.

13 | 2017 | REMOTE CONTROL VALVE ASSEMBLY – GLOBE CONFIGURATION | NOT TO SCALE | I-RCV-01

5 L9.2 REMOTE CONTROL VALVE LAYOUT SECTION

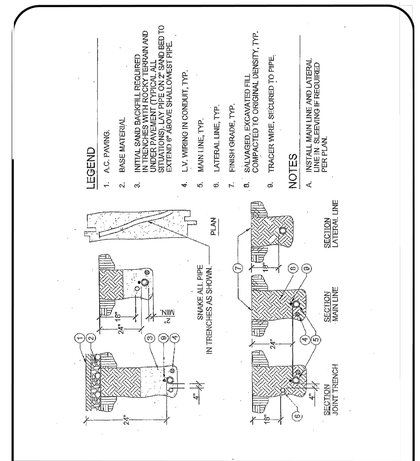
1. ISOLATION VALVE BOX. HOT STAMP CENTER OF LID INDICATING "ISOLATION VALVE"
2. REMOTE CONTROL VALVE (RCV) BOX.. HOT STAMP CENER OF LID INDICATING VALVE NAME (RCV) CONTROLLER AND STATION NUMBER (A–#). CENTER VALVE IN CENTER OF BOX TO ENABLE EASY SERVICING.
3. EXTENT OF BOTTOM OF BOX (TYP)
4. MAINLINE PIPING
5. EDGE OF LAWN, PATHWAY, FENCE, CURB ETC.

GENERAL NOTES:

1. SET BOXES 1" ABOVE FINISHED SOIL GRADE WITHIN SHRUB / GROUNDCOVER AREAS AND FLUSH IN TURF AREAS.
2. INSTALL VALVE BOXES IN SHRUB / GROUNDCOVER AREAS WHERE POSSIBLE UNLESS NO SHRUB / GROUNDCOVER AREAS IS LOCATED ADJACENT TO TURF AREA AND UNLESS OTHERWISE INDICATED ON PLANS
3. DO NOT HEAVILY COMPACT SOIL AGAINST SIDE OF BOXES. PREVENT COLLAPSE OR DEFORMATION ON ALL SIDES OF BOXES.
4. INSTALL EXTENSION RISERS FOR BOXES AS NEEDED TO COMPLETELY ENCLOSE THE VALVE ASSEMBLY. PROVIDE SOIL INTRUSION AND PROVIDE EASY ACCESS. EXTENSION RISER TO BE MANUFACTURED BY THE SAME MANUFACTURER OF BOX.
5. DO NOT SAW CUT VALVE BOX FOR ANY REASON.

24 | 2017 | VALVE BOX LAYOUT AND INSTALLATION FOR GLOBE CONFIGURATION REMOTE CONTROL VALVE ASSEMBLY | NOT TO SCALE | I-RCV-12

6 L9.2 VALVE BOX LAYOUT SECTION



26 | 2017 | TRENCH DETAIL | NTS | NOT TO SCALE | 2-T-2

7 L9.2 IRRIGATION TRENCHING SECTION

N.T.S.

8 L9.2 HEADERBOARD SECTION

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REVISION	DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Mar 31, 2005
Renewal Date
May 15, 2024
Date
STATE OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS
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SHEET
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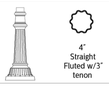
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HADCO by ⓘsignify

Outdoor

Poles and Brackets

P2565 Straight Round Fluted



4" Straight Fluted w/3" tenon

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

Order guide

example: P2565 10 A T D

Product Code	Pole Height	Finish	Outlet Location	Outlet Options
P2565	10'	A Black	T 12" Down from Top - Aligned with House Side	D Standard Duplex
	12'	B White	B 4" Up from Top of Base - Aligned with House Side	G GFI Duplex
	14'	G Verde		
	16'	H Bronze		
		J Green		

EPA values based on destructive break testing. For AASHTO ratings, contact factory.

Pole Data

Pole Model	Pole Shape	Pole Type	Shaft Dimension	Pole Fluted	Anchor Base Shape	Bolt Circle	Base Dim (in)	Hand Hole Dim (in)
P2565	Round	Straight	4	Fluted	square	11 to 14	12.75 x 43.75	4.375 x 5.75

Pole Family	Catalog Number	Nominal Height (ft)	Tenon Section (in)	Wall Thickness (in)	EPA Rating 80 MPH (sq. ft)	EPA Rating 100 MPH (sq. ft)	Anchor Bolts (in)
P2565	P2565-10	10	3	0.125	13.78	8.34	3/4-19 bs
P2565	P2565-12	12	3	0.125	11.22	6.60	3/4-19 bs
P2565	P2565-14	14	3	0.125	6.97	3.77	3/4-19 bs
P2565	P2565-16	16	3	0.125	5.54	2.72	3/4-19 bs

Specifications

HOUSING:
356 HM high-strength, low-copper, proprietary cast aluminum alloy. 6005-T5 extruded aluminum. Anchor rods are hot dipped galvanized steel. Tenon is 356 HM sand cast aluminum.

FINISH:
A durable polyurethane enamel finish is applied after assemblies are shot blasted to create a surface profile which allows for the highest level of paint adhesion. Laboratory tested for superior weatherability and fade resistance in accordance with ASTM B-117-64 and ANSI/ASTM G53-77 specifications. For larger projects where a custom color is required, contact the factory for more information.

WARRANTY:
Please visit **www.signify.com/warranties** for more details on structural and finish warranty.

OUTLET:
Standard Duplex Outlet has universal metal weatherproof cover. Weatherproof while in use. Heavy-duty all-metal construction. Lockable security cover. Meets NEC 406.9 (B). Weather resistant. GFI Duplex Outlet has dual-function indicator light, universal metal weatherproof cover. Weatherproof while in use. Heavy-duty all-metal construction. Lockable security cover. Meets NEC 406.9 (B). Weather resistant.

Control Number: ARCHITECTURAL-ODN-L-06_13_2022

ODEN LED Specifications



Project Name:

Catalog Number:

Type:

With six interchangeable caps and spun shade styles, the **Oden - LED** offers architects, designers and engineers endless possibilities for a custom fixture to fit their unique application.

The **Oden - LED Array**'s high-quality, durable construction makes it an ideal fixture for any application.

Ordering Information

MODEL	OPTICS	LEDs	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	CAP/SHADE	OPTIONS	OPTIONS
ODN-2-L	T2	48	5	3K	UNV	UAM	PNT355	C3	PC-240	

ODN-1-L
- T1 Type 1
- T2 Type 2
- T3 Type 3
- T4 Type 4
- T5 Type 5
- T5W Type 5 Wide
- T5WR Type 5 Wide Round

ODN-2-L

ODN-3-L

LEDs: 16LC, 32LC, 48LC, 48LC, 64LC, 80LC, 96LC, 96LC, 128LC

CURRENT: 3 350mA; 5 530mA; 7 700mA

KELVIN: 3K 3000K; 4K 4000K; 5K 5000K

VOLTAGE: UNV 120/277V; 8 347V; 5 480V

MOUNTING: YM Yoke Mount * Slips over 3" dia. tenon. 4" tall * Requires special threaded mounting plate.; UAM Arm Mount *Decorative arm not included. See decorative arm section for arm mount options. CON uses small arm, OON2-L & OON-3 uses large arm

FINISH: BZ Bronze; WB Weathered Brown; BK Black; SBK Smooth Black; WH White; SWH Smooth White; GP Graphite; GY Grey; SL Silver Metallic; FG Forest Green; VD Verdigris; CC Custom Color

CAP/SHADE: C1; C2; C3; C4; C5; C6; H1; H2; H3; H4; H5; H6

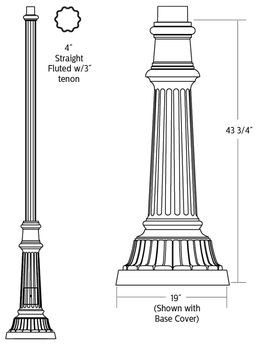
OPTIONS: PC-120 PC-208 PC-240 PC-277 Photocell & Receptacle; WSC-8 Motion Sensor 8' Mounting Height; WSC-20 Motion Sensor 20' Mounting Height; WSC-40 Motion Sensor 40' Mounting Height * The WSC option will require (1) SSR 100 remote for programming

OPTIONS: DIM 0-10v Dimming Driver; VWC Visionaire Wireless Controls *Consult Factory; IR-R Illuminated Rings Red; IR-B Illuminated Rings Blue; IR-G Illuminated Rings Green; CLS Cutoff Louver Shield

VISIONAIRE LIGHTING

P2565 Poles and Brackets

Straight Round Fluted



The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

ⓘsignify

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Signify North America Corporation 200 Franklin Square Drive Somerset, NJ 08873 Telephone 855-486-2216

Signify Canada Ltd. 281 Hillmount Road, Markham, ON, Canada L6C 2S3 Telephone 800-668-9008

VA110

Project Name: Catalog Number: Type



*Shown with decorative cast aluminum wall plate

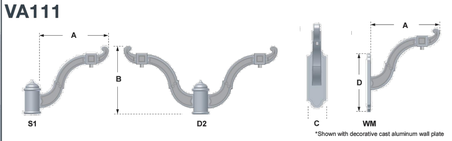
VA110 is available for both post top and suspended luminaires.

VA110 is constructed from corrosion resistant, durable cast aluminum. This arm is designed to slip over the following tenon (or pole) sizes: 4" Ø, 4½" Ø and 5" Ø. **VA110** is available in the following pole mounting configurations: Single and Double 180°. Please consult factory for custom mounting.

Fixture	A	B	C	D	EPA S1	EPA D2	EPA WM
VA110-L	20⅝"	13½"	7"	22"	1	1.6	.8
VA110-S	15⅛"	13½"	7"	22"	.9	1.4	.7
VA110 S1				VA110 D2			

Model	Mounting	Pole or Tenon Size	Finish
VA110-L VA110-S	Single (S1) Double (D2) Wall Mount (WM)	3½" dia. (3½) 4" dia. (4) 4½" dia. (4½) 5" dia. (5)	Bronze (BZ) Black (BK) White (WH) Sandstone (SN) Weathered Brown (WB) Silver Metallic (SL) Verdigris (VG) Forest Green (FG) Custom Color (CC)

VA111



*Shown with decorative cast aluminum wall plate

VA111 is available for both post top and suspended luminaires.

VA111 is constructed from corrosion-resistant, durable cast aluminum. This arm is designed to slip over the following tenon (or pole) sizes: 4" Ø, 4½" Ø and 5" Ø. **VA111** is available in the following pole mounting configurations: Single and Double 180°. Please consult factory for custom mounting.

Fixture	A	B	C	D	EPA S1	EPA D2	EPA WM
VA111	25½"	21½"	7"	22"	1	1.6	.8
VA111 S1				VA111 D2			

Model	Mounting	Pole or Tenon Size	Finish
VA111	Single (S1) Double (D2) Wall Mount (WM)	3½" dia. (3½) 4" dia. (4) 4½" dia. (4½) 5" dia. (5)	Bronze (BZ) Black (BK) White (WH) Sandstone (SN) Weathered Brown (WB) Silver Metallic (SL) Verdigris (VG) Forest Green (FG) Custom Color (CC)

MOUNTING ARMS

19645 Rancho Way Rancho Dominguez, CA 90220 tel. (310) 512-6480 Fax: (310) 512-6486 www.visionairelighting.com

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	FIXT. VOLT.	LAMP	INPUT V.A.	MOUNTING	REMARKS
PE	VISIONAIRE LIGHTING HEAD: #ODN-2-L-T1-48LC-3-3K-UNV-UAM-PNT355-C3-PC240 ARM: #VA110-L-S1-xx-PNT355 (E) 14 ft POLE	240	LED	54	POLE MOUNT ON 14 ft POLE	DECORATIVE LED POLE LIGHT W/ DECORATIVE ARM, CUSTOM PAINT COLOR, WET LOCATION LISTED, FULL CUTOFF STYLE, B3-U0-G3, 16,098 LUMENS ON (E) 14 DECORATIVE POLE CONTRACTOR TO CONFIRM (E) TENON SIZE PRIOR TO ORDER
PN	VISIONAIRE LIGHTING HEAD: #ODN-2-L-T1-48LC-3-3K-UNV-UAM-PNT355-C3-PC240 ARM: #VA110-L-S1-3.5"-PNT355 POLE: HARDCO #P2565-14-PNT355	240	LED	54	POLE MOUNT ON 14 ft POLE	DECORATIVE LED POLE LIGHT W/ DECORATIVE ARM, CUSTOM PAINT COLOR, WET LOCATION LISTED, FULL CUTOFF STYLE, B3-U0-G3, 16,098 LUMENS 14 DECORATIVE POLE, CONFIRM TENON SIZE PRIOR TO ORDER
P3	VISIONAIRE LIGHTING HEAD: #ODN-2-L-T3-64LC-5-3K-UNV-UAM-PNT355-C3-PC240 ARM: #VA110-L-S1-3.5"-PNT355 POLE: HARDCO #P2565-14-PNT355	240	LED	105	POLE MOUNT ON 14 ft POLE	DECORATIVE LED POLE LIGHT W/ DECORATIVE ARM, CUSTOM PAINT COLOR, WET LOCATION LISTED, FULL CUTOFF STYLE, B3-U0-G3, 16,098 LUMENS 14 DECORATIVE POLE, CONFIRM TENON SIZE PRIOR TO ORDER

CONFIRM FINAL SPEC AND PAINT COLOR WITH CITY PRIOR TO ORDER

VOLTAGE DROP CALCULATIONS

K FACTOR PER 1000 FET, 120V, 2WIRE, SINGLE PHASE, 95% PF:
#10 CU=17.8, #8 CU=11.5, #6 CU=7.28, #4 CU=4.64, #2 CU=2.98

ALL CIRCUITS ARE #8 CU

KVA DEMAND FOR LED FIXTURE = 0.130
KVA DEMAND FOR (E) FIXTURE @ CUL-DE-SAC= 0.285

VOLTAGE DROP (IN VOLTS) = $\frac{K \times KVA \times d}{1000}$

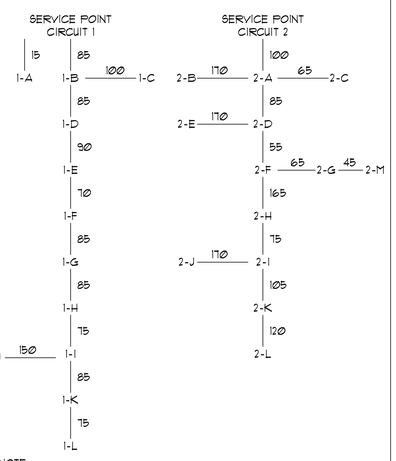
WHERE: d = CIRCUIT DISTANCE IN FEET
K = K VALUE FROM ABOVE
KVA = KVA VALUE FROM ABOVE
d = CIRCUIT DISTANCE IN FEET

NOTE: MAXIMUM VOLTAGE DROP IS 5% FROM SERVICE POINT TO FURTHEST LIGHT

TOTAL KVA DEMAND x K x d/1000 = VOLTAGE DROP

FROM SERVICE POINT TO 1-A	0.130	11.5	0.015	0.022	V
FROM SERVICE POINT TO 1-B	1.585	11.5	0.085	1.549	V
1-B TO 1-C	0.130	11.5	0.100	0.150	V
1-B TO 1-D	1.325	11.5	0.085	1.295	V
1-D TO 1-E	1.195	11.5	0.090	1.237	V
1-E TO 1-F	1.065	11.5	0.070	0.857	V
1-F TO 1-G	0.935	11.5	0.085	0.914	V
1-G TO 1-H	0.805	11.5	0.085	0.787	V
1-H TO 1-I	0.675	11.5	0.075	0.582	V
1-I TO 1-J	0.285	11.5	0.150	0.492	V
1-I TO 1-K	0.260	11.5	0.085	0.254	V
1-K TO 1-L	0.130	11.5	0.075	0.112	V
TOTAL VOLTAGE DROP =				8.251	VOLTS
MAXIMUM PERMISSIBLE = 0.5 (240) = 12 VOLTS					

FROM SERVICE POINT TO 2-A	1.870	11.5	0.100	2.151	V
2-A TO 2-B	0.285	11.5	0.170	0.557	V
2-A TO 2-C	0.130	11.5	0.065	0.097	V
2-A TO 2-D	1.325	11.5	0.085	1.295	V
2-D TO 2-E	0.130	11.5	0.170	0.254	V
2-D TO 2-F	1.065	11.5	0.055	0.674	V
2-F TO 2-G	0.130	11.5	0.065	0.097	V
2-F TO 2-G	0.130	11.5	0.065	0.097	V
2-F TO 2-H	0.805	11.5	0.165	0.602	V
2-H TO 2-I	0.675	11.5	0.075	0.582	V
2-I TO 2-J	0.285	11.5	0.170	0.557	V
2-I TO 2-K	0.260	11.5	0.105	0.314	V
2-K TO 2-L	0.130	11.5	0.120	0.179	V
TOTAL VOLTAGE DROP =				7.359	VOLTS
MAXIMUM PERMISSIBLE = 0.5 (240) = 12 VOLTS					



NOTE:
240V 2-WIRE SINGLE PHASE #8 CU

TITLE 24 NOTE

THIS PROJECT IS EXEMPT FROM TITLE 24 PER THE FOLLOWING:

EXCEPTION 6 TO SECTION 130.2(b): LUMINAIRES IN THE PUBLIC RIGHT OF WAY.

EXCEPTION 2 TO SECTION 130.2(c)3: APPLICATIONS LISTED AS EXCEPTIONS TO SECTION 140.7(a) ARE NOT REQUIRED TO HAVE MOTION SENSING CONTROLS.

EXCEPTION (ITEM 5) TO SECTION 140.7(a): LIGHTING FOR SPORTS AND ATHLETIC FIELDS, AND CHILDREN'S PLAYGROUNDS.

ELECTRICAL SYMBOLS

- LIGHT FIXTURE - POLE MOUNTED
- SWITCHBOARD, SEE ONE LINE DIAGRAM MARK POWER SOURCE AND LOCATION PER NEC 110.22(A).
- BRANCH CIRCUIT PANEL, SEE PANEL SCHEDULES MARK POWER SOURCE AND LOCATION PER NEC 110.22(A).
- SIGNAL OR CONTROL PANEL, TYPE AS INDICATED
- TELEPHONE TERMINAL BOARD, SIZE AS INDICATED
- IDENTIFICATION TAG FOR EQUIPMENT PROVIDED BY M.C. CONNECT EQUIPMENT AS INDICATED OR AS REQUIRED.
- NUMBERED NOTE TAG - SEE NUMBERED NOTES, SAME SHEET
- A / E1 INDICATES DETAIL "A" AT SHEET "E1"

ABBREVIATIONS LIST

A	AMPERE	NTS	NOT TO SCALE
AFF.	ABOVE FINISHED FLOOR	PRI.	PRIMARY
AL	ALUMINUM	PVC	POLYVINYL CHLORIDE
B.C.	BARE COPPER		CONDUIT
C.	CONDUIT	SEC.	SECONDARY
C.O.	CONDUIT ONLY, WITH PULL LINE	TTB.	TELEPHONE TERMINAL BOARD
		TTC	TELEPHONE TERMINAL CABINET
CU	COPPER	TYP.	TYPICAL
(E)	EXISTING	UG	UNDERGROUND
EMT	ELECTRICAL METALLIC TUBING	UON	UNLESS OTHERWISE NOTED
GND.	GROUND	V	VOLTS
H.I.D.	HIGH INTENSITY DISCHARGE	WP	WEATHERPROOF
J-BOX	JUNCTION BOX	W	WIRE
KVA	KILO VOLT AMP	WP	WEATHERPROOF
MH	METAL HALIDE	W/	WITH
MSB	MAIN SWITCHBOARD	XFMR	TRANSFORMER
		Φ	PHASE

WIRE AND CONDUIT LEGEND

- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT RUN UNDERFLOOR OR UNDERGROUND.
- HOME RUN, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS IN HOME RUN.
- FLEXIBLE CONDUIT
- F FACTORY WHIP
- NO CROSSBARS ON CONDUIT INDICATE ½" CONDUIT WITH TWO #12 AWG CONDUCTORS, CROSSBARS INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT. CONDUCTOR SIZE OTHER THAN #12 NOTED ON DRAWING. CONDUIT SIZE OTHER THAN ½" NOTED ON DRAWING.
- CONDUIT UP.
- #10 #10 ¾" C. EXAMPLE: THREE CIRCUITS IN HOME RUN - FOUR #10 AWG CONDUCTORS AND ONE #10 AWG GROUNDING CONDUCTOR IN ¾" CONDUIT, RUN CONCEALED IN WALL OR ABOVE CEILING.

LOAD CALCULATION

CIRCUIT 1
(6) REPLACED HEADS REDUCED FROM 175-WATTS EACH DOWN TO 54-WATTS EACH -726 WATTS
(5) NEW POLES @ 54-WATTS EACH +270 WATTS
TOTAL LOAD CHANGES FOR CIRCUIT 1 = -456 WATTS

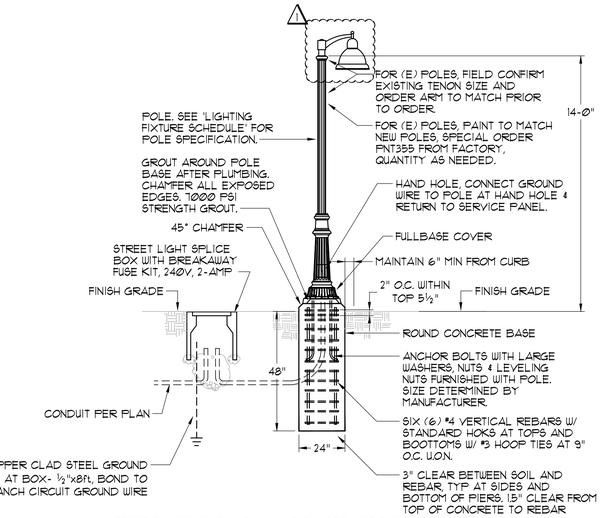
CIRCUIT 1 OVERALL WATTAGE WAS REDUCED

TOTAL LOAD CIRCUIT 1 = 594 @ 240V = 2.5 AMPS

CIRCUIT 2
(3) REPLACED HEADS REDUCED FROM 175-WATTS EACH DOWN TO 54-WATTS EACH -363 WATTS
(4) NEW POLES @ 54-WATTS EACH +216 WATTS
(4) NEW POLES @ 105-WATTS EACH +420 WATTS
TOTAL LOAD CHANGES FOR CIRCUIT 2 = +273 WATTS

CIRCUIT 2 OVERALL WATTAGE WAS INCREASED

TOTAL LOAD CIRCUIT 2 = 798 @ 240V = 3.4 AMPS



REFER TO STRUCTURAL CALCULATIONS FOR ADDITIONAL INFORMATION

POLE BASE DETAIL A / ES1

SCALE: NONE

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REVISION	DATE

REGISTERED PROFESSIONAL ENGINEER — ROBERT C. YEHNERT — No. E-10629 — EXP. 6-30-2025 — ELECTRICAL — STATE OF CALIFORNIA

Date Signed: May 13, 2024

SACRAMENTO ENGINEERING CONSULTANTS
10555 Old Placerville Road
Sacramento, CA 95827-2503
Phone: (916) 368-4468
Fax: (916)368-4490
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Job No. 22416

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/24
⚠1 Building Resubmittal	05/15/24

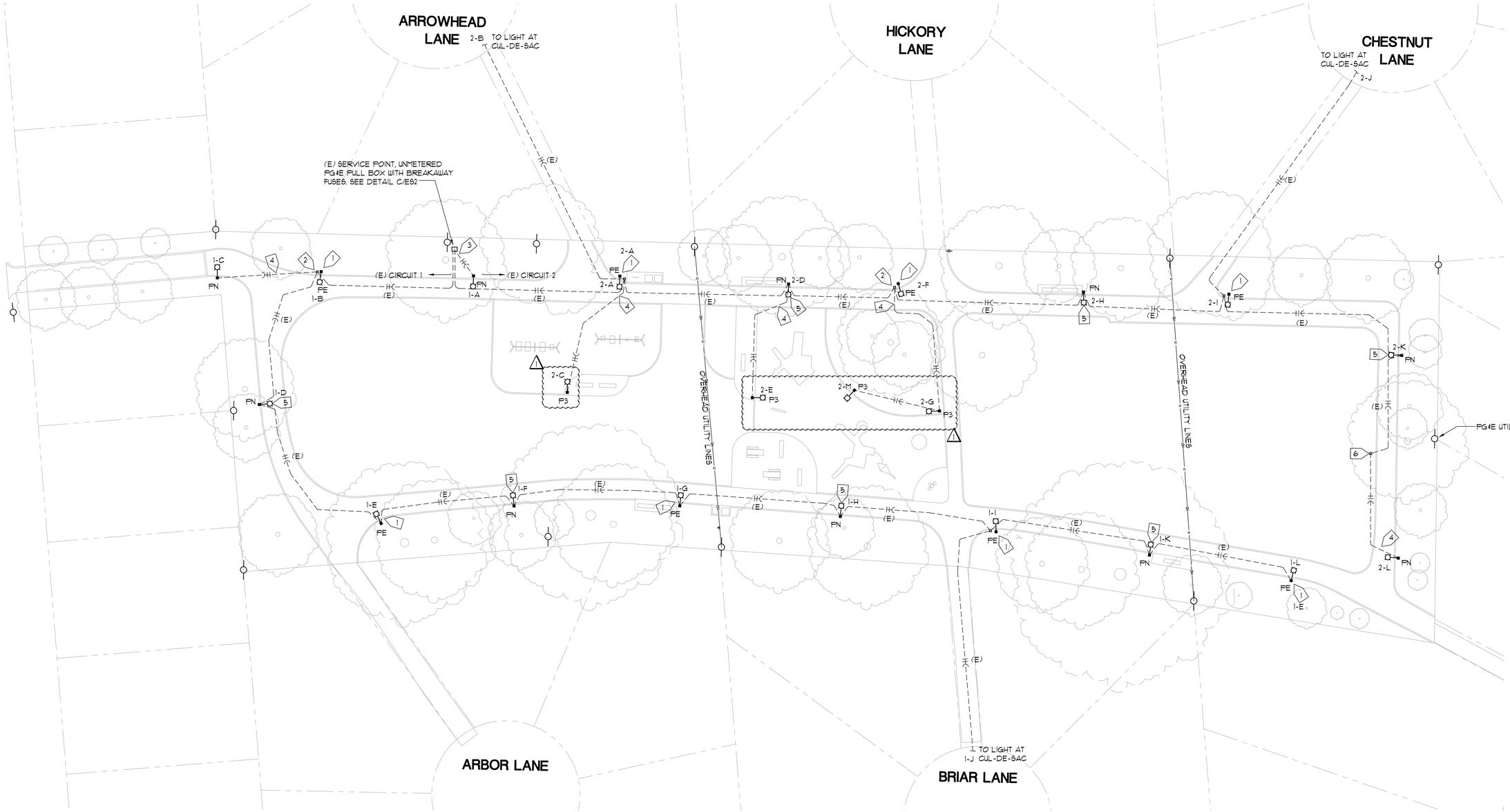
PROJECT NO: 22416
DRAWN BY: PMB
CHECKED BY: RH
SCALE: As Shown

SHEET TITLE
SCHEDULE, LEGEND

SHEET
ES1

CITY OF SAN MATEO CALIFORNIA

File Path: E:\Drawings\Drawn\Jobs 2022\22-025-224\Ltr\LS1.dwg Plot Date: 5/13/24 Saved By: Cvest
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ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

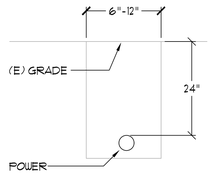
A / ES2

NOTE: ALL EXISTING LIGHTING BRANCH CIRCUITS ARE (2) #8 CU & #8 CU GND IN 2" PVC.
ALL NEW LIGHTING BRANCH CIRCUITS SHALL BE (2) #8 CU & #8 CU GND IN 2" PVC.

U.S.A.
UNDERGROUND SERVICE ALERT

1-800-227-2600

CONTACT PRIOR TO THE START OF ANY EXCAVATION ON SITE.

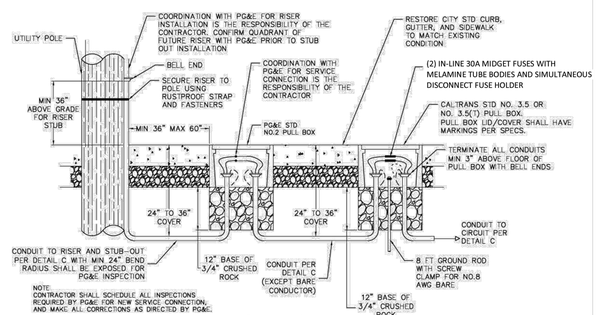


WHERE NECESSARY, PROVIDE SAND PROTECTION AROUND CONDUIT TO PREVENT PHYSICAL DAMAGE TO CONDUIT.

TRENCH DETAIL

SCALE: NONE

B / ES2



DETAIL G
TYPICAL SERVICE CONNECTION

ELECTRICAL SERVICE DETAIL

SCALE: NONE

C / ES2

NUMBERED NOTES

1. EXISTING POLE TO BE REUSED WITH NEW LUMINAIRE HEAD AND ARM. CONTRACTOR SHALL CONFIRM EXISTING TENON SIZE AND ORDER ARM TENON SIZE TO MATCH, PRIOR TO ORDER. CONTRACTOR SHALL PAINT POLE, CUSTOM COLOR FNT355, TO MATCH ALL NEW POLES.
2. PROVIDE NEW PULL BOX NEAR POLE BASE, CHRISTY N16 OR EQUAL. INTERCEPT (E) LIGHTING BRANCH CIRCUIT AND ROUTE OVER TO NEW PULL BOX. SPLICE (E) LIGHTING BRANCH CIRCUIT AND ROUTE OVER TO NEW LIGHTING AS SHOWN. PROVIDE NEW BREAKAWAY FUSES TO FEED (E) POLE, 240-VOLT 2-AMP.
3. (E) PULL BOX NEAR POLE BASE. SPLICE (E) LIGHTING BRANCH CIRCUIT AND ROUTE OVER TO NEW LIGHTING AS SHOWN.
4. EXTEND LIGHTING BRANCH CIRCUIT OVER TO NEW LIGHTING AS SHOWN. SAW CUT AND PATCH TO LIKE NEW CONDITION EXISTING ASPHALT, CURB, ETC AS REQUIRED.
5. INTERCEPT EXISTING LIGHTING BRANCH CIRCUIT IN MIDDLE OF WALKWAY, AND ROUTE OVER AND BACK TO NEW LIGHTING AS SHOWN. REPLACE EXISTING CONDUCTORS AND CONDUIT AS NEEDED. SAW CUT AND PATCH TO LIKE NEW CONDITION EXISTING ASPHALT, CURB, ETC AS REQUIRED.
6. EXISTING CONDUIT STUB. INTERCEPT AND EXTEND TO NEW LIGHTING AS SHOWN.

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REVISION	DATE

REGISTERED PROFESSIONAL ENGINEER
ROBERT C. HEMPHILL
No. E-10629
Exp. 6-30-2025
ELECTRICAL
STATE OF CALIFORNIA

Date Signed: May 13, 2024

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Job No. 22416

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

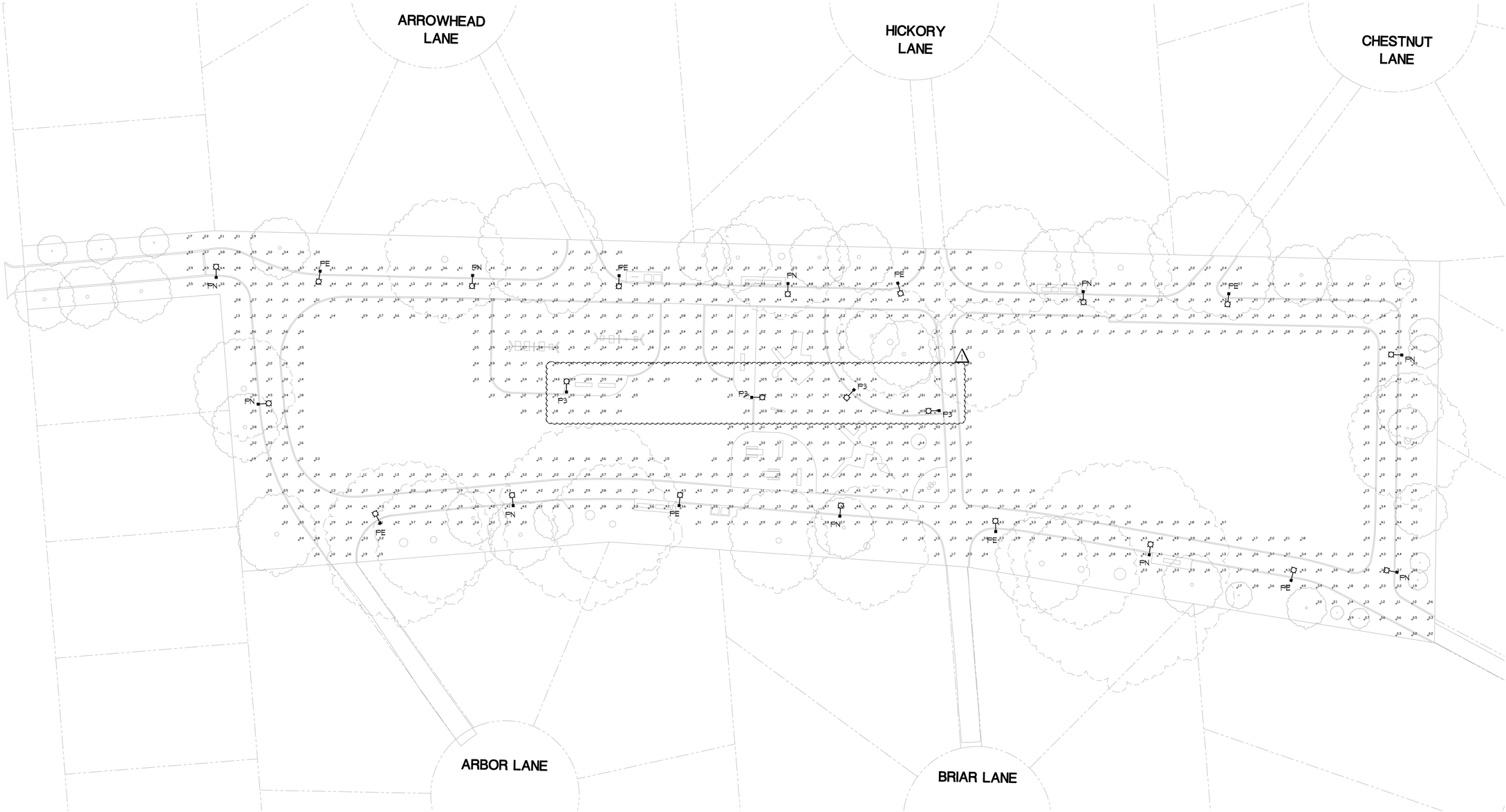
ISSUE	DATE
90% Submittal	02/14/24
1 Building Resubmittal	05/15/24

PROJECT NO: 22416
DRAWN BY: PMB
CHECKED BY: RH
SCALE: As Shown

SHEET TITLE
ELECTRICAL SITE PLAN

SHEET
ES2

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PHOTOMETRIC PLAN

SCALE: 1" = 20'-0"

A / ES3

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone	+	2.6 fc	14.0 fc	0.2 fc	70.0:1	13.0:1

CALA
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www.callanderassociates.com

REVISION	DATE

REGISTERED PROFESSIONAL ENGINEER
ROBERT C. YEAMAN
No. E-10629
EXP. 6-30-2025
ELECTRICAL
STATE OF CALIFORNIA

Date Signed: May 13, 2024

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Job No. 22416

EAST HILLSDALE PARK IMPROVEMENTS

SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/24
1 Building Resubmittal	05/15/24

PROJECT NO: 22416
DRAWN BY: PMB
CHECKED BY: RH
SCALE: As Shown

SHEET TITLE
PHOTOMETRIC PLAN

SHEET
ES3

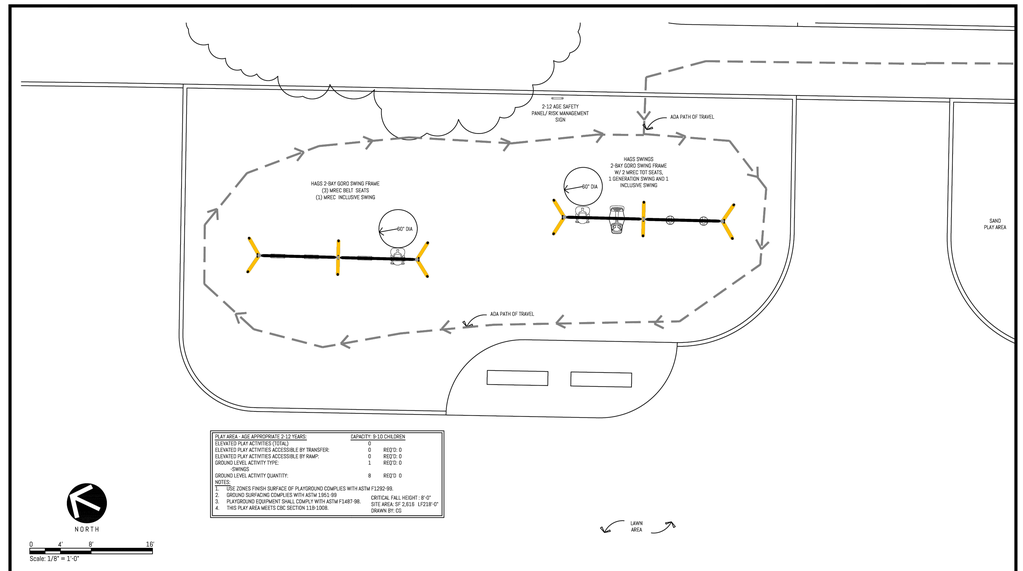
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E. Hillsdale Park Playground	LINEAR FEET:	As Shown	SITE AREA: As Shown
	CRITICAL FALL HEIGHT:	8'-3" CFH	SCALE: 3/32"=1'-0"
San Mateo, CA	20_1106_E.Hillsdale_009		DATE: 05/02/2024
			DRAWN BY: CG

ALL DRAWINGS ARE SUBJECT TO CHANGE AND SHOULD BE REVIEWED BEFORE FINAL SALE. ALL SITE DIMENSIONS WILL NEED TO BE VERIFIED PRIOR TO SALE AND INSTALLATION.

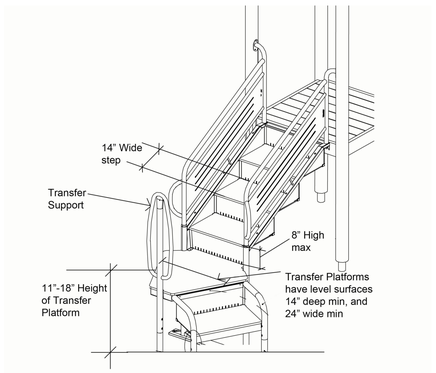
1 A1.0 AGE GROUP 2-5 & 5-12 PLAY STRUCTURE
PLAN



E. Hillsdale Park Playground_ Swings	LINEAR FEET:	As Shown	SITE AREA: As Shown
	CRITICAL FALL HEIGHT:	8'-0" CFH	SCALE: 1/8"=1'-0"
San Mateo, CA	20_1106_E.Hillsdale_009		DATE: 05/02/2024
			DRAWN BY: CG

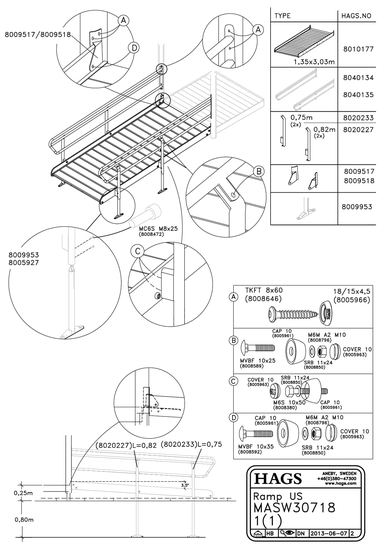
ALL DRAWINGS ARE SUBJECT TO CHANGE AND SHOULD BE REVIEWED BEFORE FINAL SALE. ALL SITE DIMENSIONS WILL NEED TO BE VERIFIED PRIOR TO SALE AND INSTALLATION.

2 A1.0 AGE GROUP 2-5 & 5-12 SWING STRUCTURE
PLAN





3 A1.0 TRANSFER PLATFORM
ISOMETRIC VIEW



4 A1.0 ADA RAMP
ISOMETRIC AND ELEVATION VIEW

100% SUBMITTAL - NOT FOR CONSTRUCTION

CALA
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www.callandersociates.com

REVISION	DATE
1 Building Resubmittal	05/15/24

LANDSCAPE ARCHITECT
BRUCE FORD
No. 4598
Signature
Mar 31, 2005
Renewal Date
May 15, 2024
Date
STATE OF CALIFORNIA

EAST HILLSDALE PARK IMPROVEMENTS
SAN MATEO, CALIFORNIA

ISSUE	DATE
90% Submittal	02/14/24
100% Submittal	05/15/24

PROJECT NO: 22039
DRAWN BY: DC/AS
CHECKED BY: BF/ZK
SCALE: As Shown

SHEET TITLE
PLAYGROUND ACCESSIBILITY PLAN

SHEET
A1.0

CITY OF SAN MATEO
PARKS & RECREATION
CALIFORNIA

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