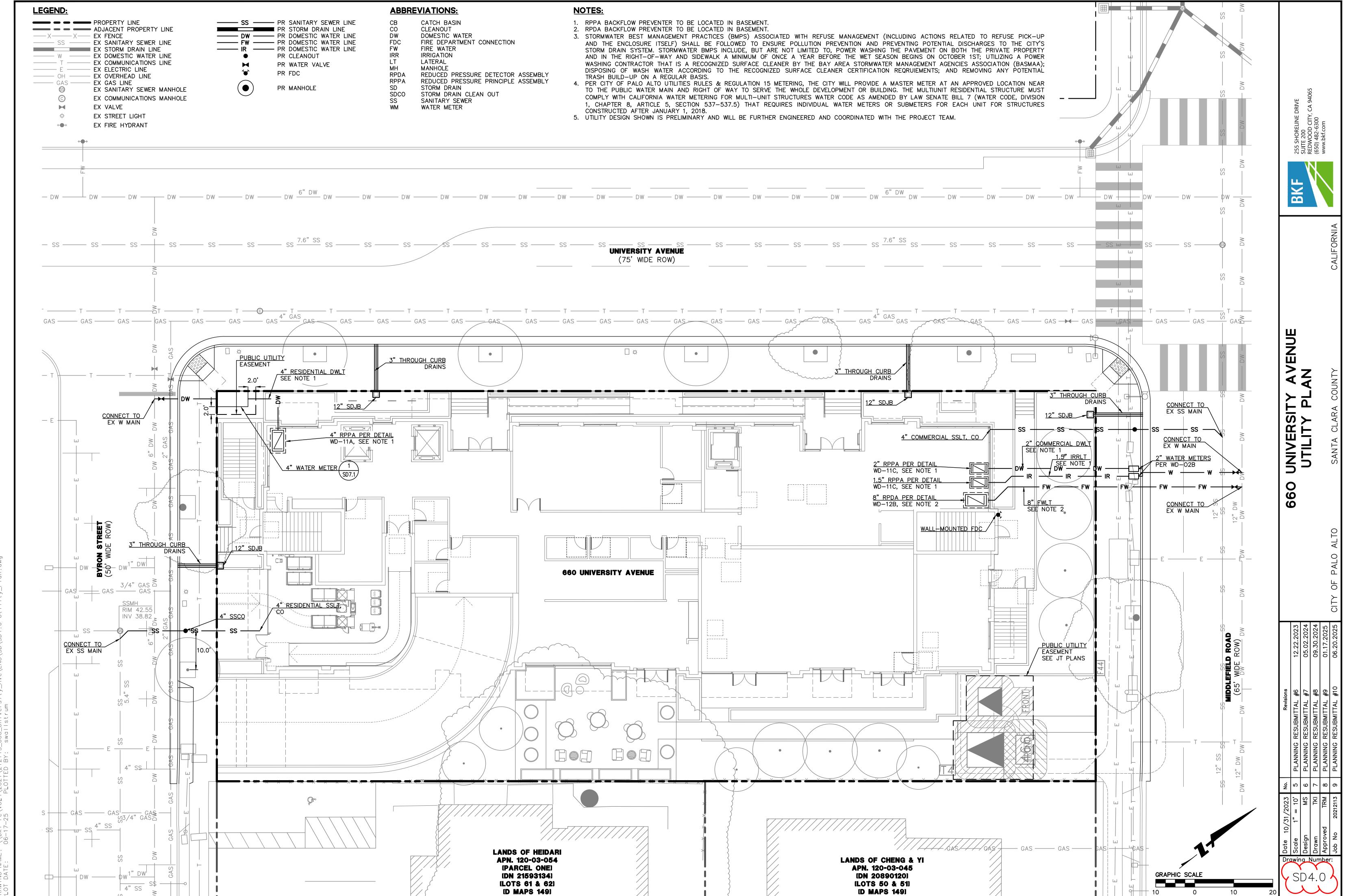
(D MAPS 149)

(D MAPS 149)

GRAPHIC SCALE





SITY AVENUE NAGEMENT PLAN

PALO ALTO

CITY OF PALO ALT

FLANNING RESUBMITTAL #7 12.22

PLANNING RESUBMITTAL #8 05.02

PLANNING RESUBMITTAL #9 01.17

PLANNING RESUBMITTAL #9 01.17

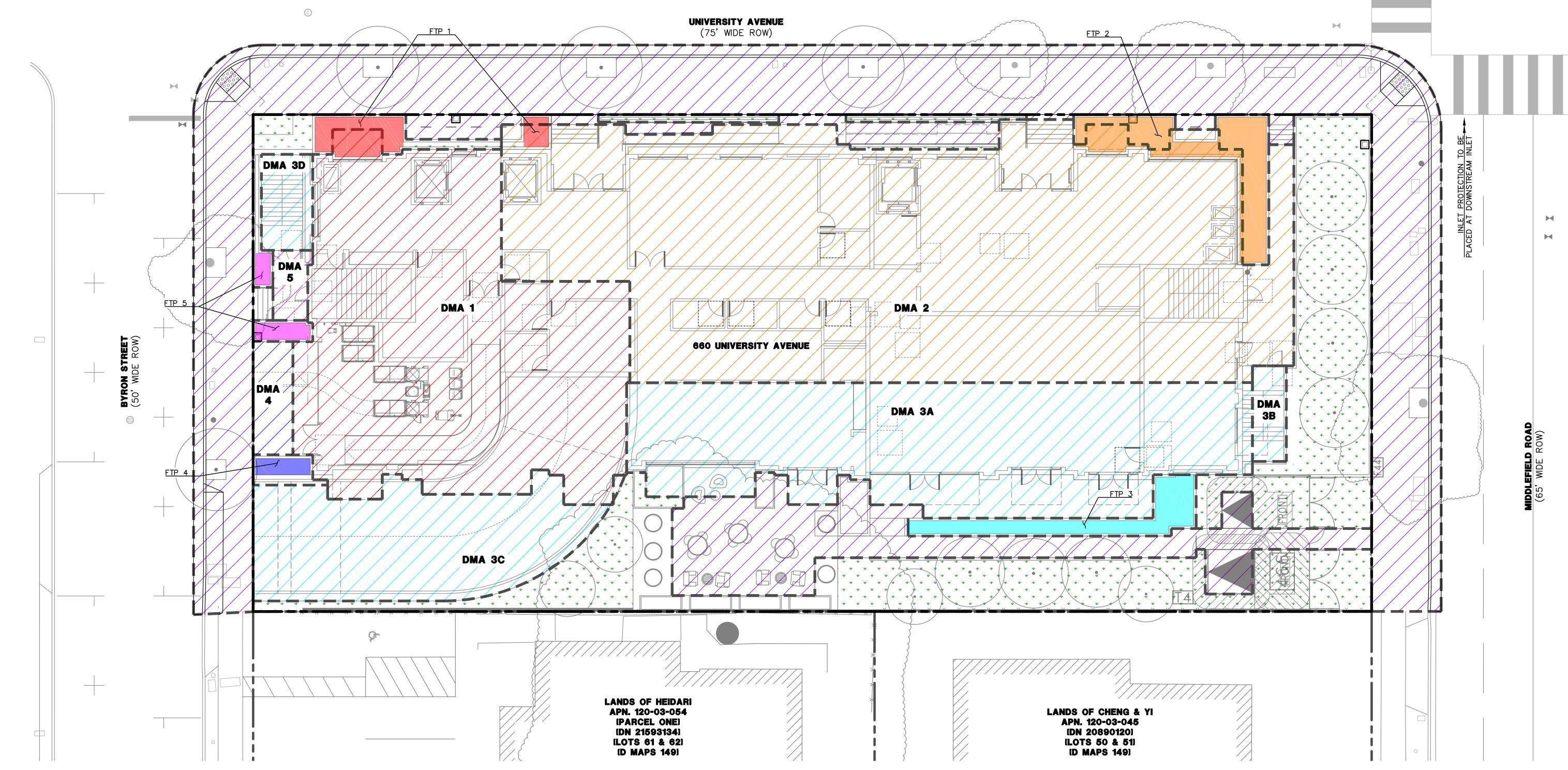
bate 10/31/2023 No.

Scale 1" = 10' 5 P

Design MS 6 P

Drawn TKI 7 P

Approved TRM 8 P



LEGEND

STRA * *

SELF TREATING/RETAINING AREA

___ _ _ DMA BOUNDARY

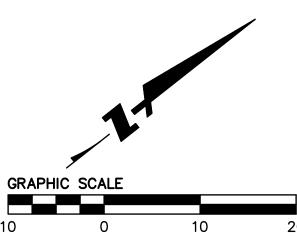
<u>NOTE</u>

- DO NOT USE CHEMICAL FERTILIZERS, PESTICIDES, HERBICIDES OR COMMERICAL SOIL AMENDMENT. USE ORGANIC MATERIALS REVIEW INSTITUTE (OMRI) MATERIALS AND COMPOST. REFER TO THE BAY—FRIENDLY LANDSCAPE GUIDELINES FOR GUIDANCE.
- 2. AVOID COMPACTING SOIL IN AREAS THAT WILL BE UNPAVED.
- 3. FOR ALL C.3 FEATURES, VENDOR SPECIFICATIONS REGARDING INSTALLATION AND MAINTENANCE SHOULD BE FOLLOWED AND PROVIDED TO CITY STAFF. COPIED MUST BE SUBMITTED TO PAM BOYLE RODRIGUEZ AT PAMELA.BOYLERODRIGUEZ@CITYOFPALOALTO.ORG.
- 4. STAFF FROM STORMWATER PROGRAM (WATERSHED PROTECTION DIVISION) MAY BE PRESENT DURING INSTALLATION OF STORMWATER TREATMENT MEASURES. CONTACT PAM BOYLE RODRIGUEZ, STORMWATER PROGRAM MANAGER, AT (650) 239-2421 BEFORE INSTALLATION.

STORMWATER QUALITY SIZING SUMMARY

| DMA ID | DMA (SF) | TREATMENT ID | TREATMENT AREA (SF) | TREATMENT AREA REQUIRED (SF) | MEETS REQUIREMENT? |
|-----------|-------------|--------------|---------------------------|------------------------------------|-----------------------|
| DMA 1 | 3,825 | FTP 1 | 160 | 155 | YES |
| DMA 2 | 7,310 | FTP 2 | 350 | 295 | YES |
| DMA 3 | 4,710 | FTP 3 | 210 | 190 | YES |
| DMA 4 | 180 | FTP 4 | 35 | 10 | YES |
| DMA 5 | 105 | FTP 5 | 55 | 5 | YES |
| DMA 6 * | 7,580 | _ | SEE NOTE | 305 | SEE NOTE |

* THE APPLICANT AND THE CITY SHALL ENTER INTO AN AGREEMENT ACCEPTABLE TO THE PUBLIC WORKS DIRECTOR OR DESIGNATED REPRESENTATIVE TO PROVIDE ALTERNATIVE COMPLIANCE WITH PAYMENT OF IN-LIEU FEES TO COMPLY WITH THE REGULATED PROJECTS STORMWATER TREATMENT OBLIGATIONS.



Drawing Number:

UNIVERSITY A

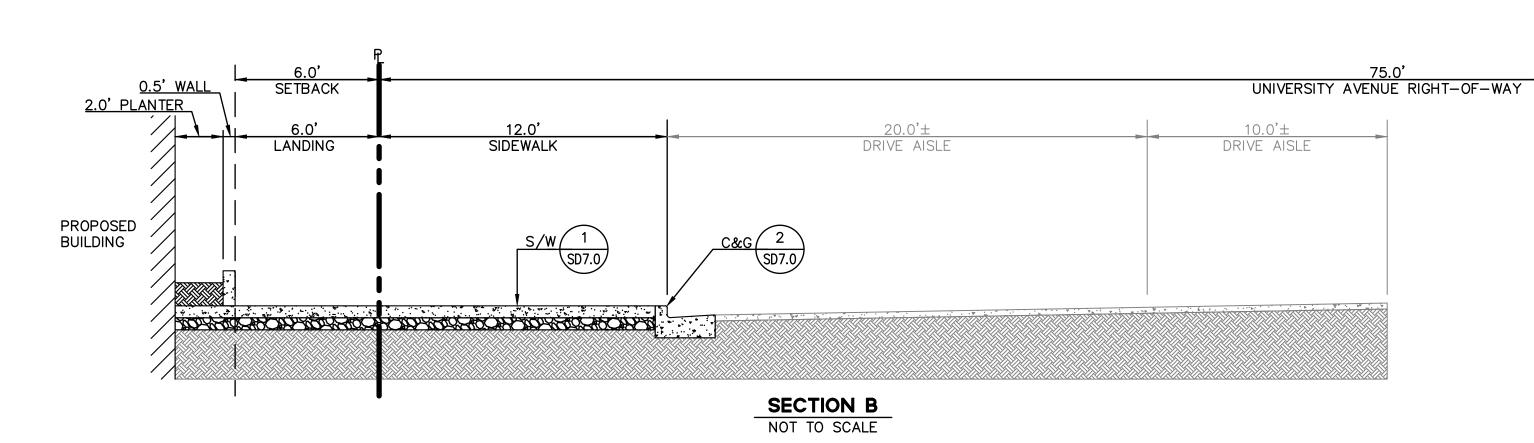
99

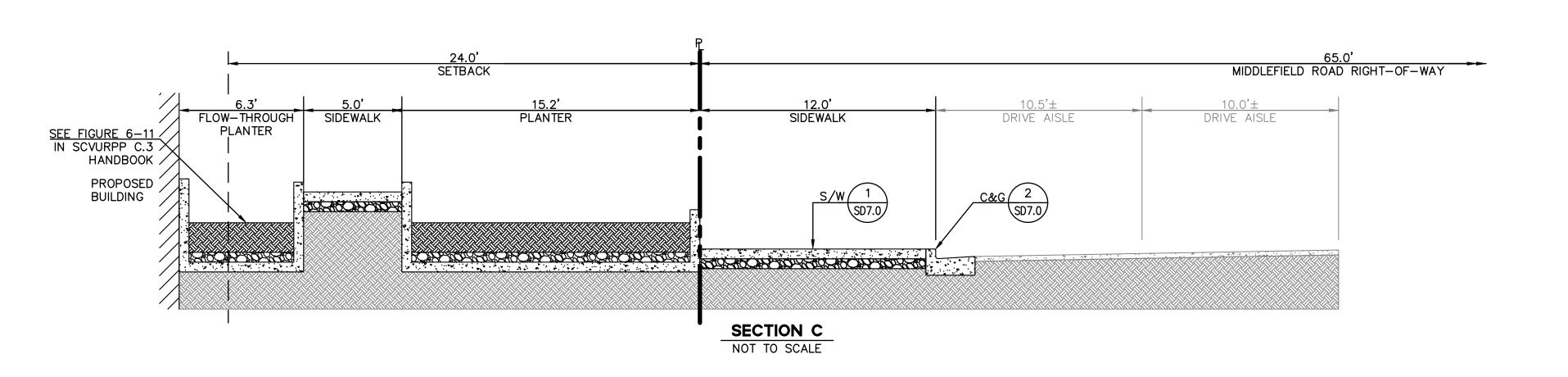
UNIVERSITY AVENUE

SD6.0

50.0'
BYRON STREET RIGHT-OF-WAY 10.0' SETBACK 8.0'± PARKING 14.0'± DRIVE AISLE 8.0'± PARKING 10.0' SIDEWALK SEE FIGURE 6-11
IN SCVURPP C.3
HANDBOOK LANDING PROPOSED BUILDING 2 SD7.0 C&G CONTRACTOR OF THE PROPERTY OF SECTION A

NOT TO SCALE







CURB AND GUTTER LANDSCAPE L/S SIDEWALK

ABBREVIATIONS:

Vertical Curb and Gutter Gutter width - Match Existing Longitudinal Sawcut per deep score Sidewalk Drawing 135 $(1\frac{1}{4}")$ (typ.) -Slope = 1.5% Pavement surface 2% slope -#4, 12" long dowels at 2' O.C. — 6" of Class 2 aggregate base embedded 6" into the existing concrete and vertically centered at joints. - Use 1/2" wide felt expansion material at each end of curb returns and a maximum of 60" O.C. - Use #4, 12" long dowels at each expansion joint and at end of pours (3 dowels for 2 ft. and 3 ft. gutters, 5 dowels for 6 ft. gutters). - Mark contraction joints 1-1/2" deep at 10 ft. centers. - Surface finish to be light brooming. - "H" dim = 5" with 1 ft. gutter; "H" dim = 4-1/2" with 2 ft. gutter;

"H" dim = 4" with 3 ft. gutter

"H" dim = 3" with 6 ft. gutter;

Rev By Date

2 JT 08/14/06

3 HQN 01/04/07

4 RTN 06/10/17

Scale: NTS

0.45" Min AND 0.47" Mox

RAISED TRUNCATED DOME

000

RAISED TRUNCATED DOME PATTERN (IN-LINE)

DETECTABLE WARNING SURFACE

NULLS:

See Note 10

As a site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Betail A and Betail B. The case of curb ramps used in Betail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate. For specific site condition configuration, including the conform to existing sidewalk, see Project Plans.

2. If distance from curb to book of sidewalk is too short to accommodate ramp and 4-2 plotform (landing) as shown in Case A, the sidewalk may be depresse longitudinally as in Case B or C or may be widened as in Case D.

When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.

The ramp portion of the curb ramp is a typical rectangle, unless modified in the Project Plans.

 Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1Vt20H (5.0%) Gutter pan slope shall not exceed 1" of depth for each 2"-0" of width.

Transition gutter pan slope from 1" of depth for each 2'-0" of width to match typical gutter pan slope per Standard Plan A87A.

Detectable warning surface may have to be cut to allow removal of utility covers while maintaining detectable warning width and depth.

PAVEMENT | 3'-0" Typ | MARNING 3'-0" Typ |
SEE | NOTE 9 | NOTE 8 |
NOTE 9 | NOTE 9 |

TYPICAL GUTTER PAN APPLIES TO ALL CASES

GUTTER PAN TRANSITION

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS

NO SCALE

Return to Table of Contents

11. Sidewalk and ramp thickness, "T", shall be $3\frac{1}{2}$ " minimum.

6. As site conditions dictate, the retaining curb side and the flared side of the Case 6 ramp shall be constructed in reversed position.

2.3" MIN AND 2.4" Max 10 0 0 CENTER TO CENTER SPACING

MN 10/25/04

depth/width along nearest SIDEWALK score mark/ construction/cold -Thicken sidewalk to 6" joint (typ) **SIDEWALK** Match scoring of existing sidewalk 1" deep joint Rough finish -Planter strip -Construction joint **ELEVATION B-B** Face of curb Driveway width 1" deep (variable) weakenedplane joint (typ) Lip of gutter-**PLAN** 1' key way – Driveway apron height (lip) shall be 1/2" at flowline. NOTE: Refer to Drawing 124 for Notes and Cross-section details and additional notes. Approved by: Driveway Construction 1 MMN 03/19/14 Type A Curb & Gutter RTN 08/14/17 72158 01/10/18

City of Palo Alto Standard

3

Sawcut full

| <u>SE</u> | CTION A | 6" 1.5% Sidewalk POT | Type A PCC curb and gutter P.C.C.drivewdy apron. 6" (N) class 2 AB (min) T on PCC streets Driveway apron height (lip) shall be 1/2" at flowline | Sawcut 2' from face of curb (E) PCC on AB #4, 12" epoxied dowels @ 24" O.C. |
|-----------|---|---|--|---|
| SE | CTION A- | ţ~ | | Sawcut 12" from face of curb Match existing AC elevations (E) PCC on AB (E) AB |
| SE | CTION A- | 6" 1.5% Sidewalk A 2' exposed gut | Type A PCC curo and gutter 2' | Sawcut 12" from lip of gutter Match existing AC elevations (E) AB |
| SE | CTION A- | 6" 1.5% Sidewalk PSC A 2' exposed gut | Type A PCC curb and gutter 21 | Sawcut 12" from lip of gutter Match existing AC elevations (E) AB (E) PCC on AB #4, 12" epoxied dowels @ 24' O.C. |
| - | Dowel a long down For new existing All new No saw- On PCC | Ill new concrete wels epoxied ar Asphalt Concre thickness or 2" driveways shal cutting along le | shall be 1/2" at flowline for all driveways. e into existing concrete at 2' O.C. with #4 12" and embedded 6". ete patches, 3/8" hot mix shall be used. Match minimum, whichever is greater. I be 6" thick across all sidewalks. congitudinal score marks on sidewalks. illures shall be poured monolithically with tter. | 4 4 4 1/2" lip |
| Rev 0 | By RTN | Date 01/25/16 | Driveway Cross-sections Type A Curb & Gutter | Approved by: PE No. 72158 Date 01/10/18 |
| | | | City of Dala Alta Ctanaland | Dwg 124 |

City of Palo Alto Standard

- ARMORCAST 30"x48"x18"

METER BOX AND COVER

#A6001430TAPCX18CPA)

ASSEMBLY W/ DROP-IN LIDS

POLYMER CONCRETE

SIDEWALK NOT TO SCALE

Dowelled expansion

joint at returns and

1.5 %

(Note 5)

→ 30"

Equal between work limits

joint material

Three #4, 12" smooth, capped dowels

per joint in sidewalk, curb and gutter.

Expansion joint

Sidewalks to be marked in 30" squares.

Sidewalks to have 1.5% slope to street.

Edges to have a 3/4" radius.

Rev By Date

0 DWH 12/14/92

1 MN 01/29/02

2 HQN 01/04/07

3 RTN 08/10/17

Scale: NTS

4. Contraction joints may be saw-cut.

approx 60' O.C.

Planting strip

Install appropriate curb

ramp per City Standards

5' wide sidewalk or

match existing width

Integral sidewalk, curb and gutter;

curbs. Install 14" longitudinal deep

similar jointing for Type A and B

TYPICAL CITY BLOCK

PLAN

LONGITUDINAL SECTIONS

All new sidewalk shall be doweled at 2 ft. O.C. into existing concrete with #4, 12" long dowels and embedded 6".

7. Saw-cut walk full depth and full width on score marks perpendicular to the curb. No saw-cutting on longitudinal

Sidewalk Construction

City of Palo Alto Standard

Score marks shall be minimum 3/8" deep; contraction joints shall be 1" minimum depth at 10 ft. O.C.

8. Install longitudinal deep score along entire back of curb that is monolithic with the sidewalk.

score at back of curb.

Contraction

joints at 10'

Install appropriate curb

ramp per City Standards

____ 30" ____

6" min. of Class 2

Approved by:

1/2

Date ___01/10/18

141

PE No. 72158

SEE NOTE 8

GUTTER TOP OF RAMP 4'-2" MIn. ROUNDED

7.5% Mgx 1.5% Mgx

SEE NOTE 8

CURB RAMP

NOT TO SCALE

SECTION A-A

FLOWLINE IF NECESSARY
TOP OF RAMP
ROUNDED
7.5% Mgx
1.5% Mgx

SECTION B-B

Depress entire sidewalk as required

SECTION C-C

RETAINING CURB IF NECESSARY—

RETAINING CURB IF NECESSARY,

aggregate base

Contraction joint

Equal between work limits

CURB AND GUTTER 2 NOT TO SCALE

- No saw-cutting permitted parallel to the face of curb within the width of the gutter pan/

- When possible, pour Type A curb and gutter monolithically with sidewalks, driveways and PCC slabs.

Vertical Curb and Gutter

Type A

Construction Detail

City of Palo Alto Standard

PE No. 72158

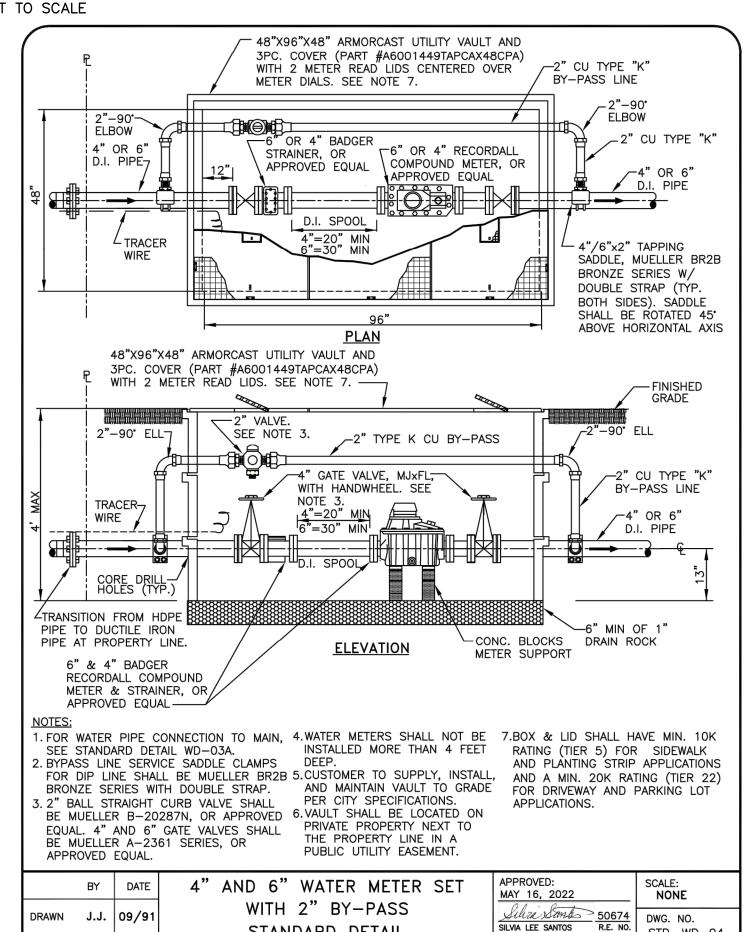
Date 01/10/18

133

Existing gutter widths vary (1 ft., 2 ft., 3 ft., or 6 ft.). Match existing.

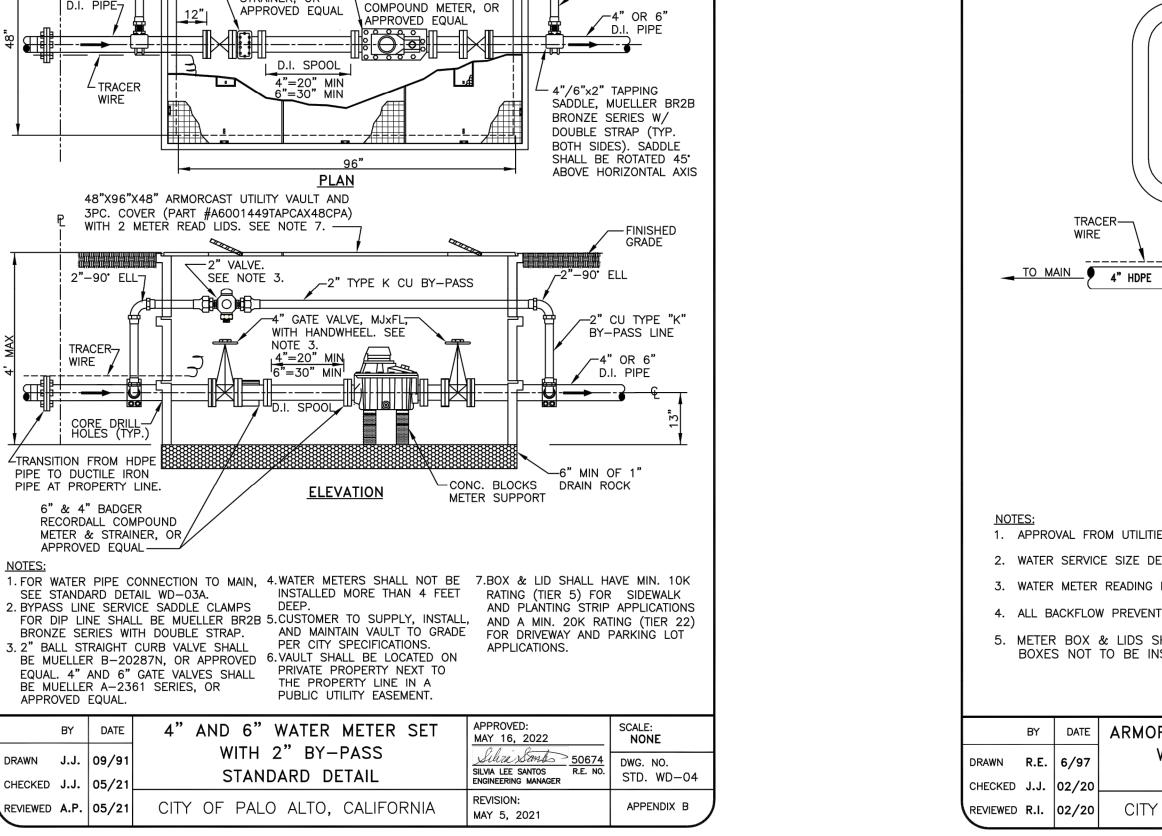
All new Asphalt Concrete patches shall be with 3/8" hot mix.

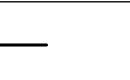
Install longitudinal deep score along entire back of curb.



Scale: NTS









Scale: NTS

/WATER\\

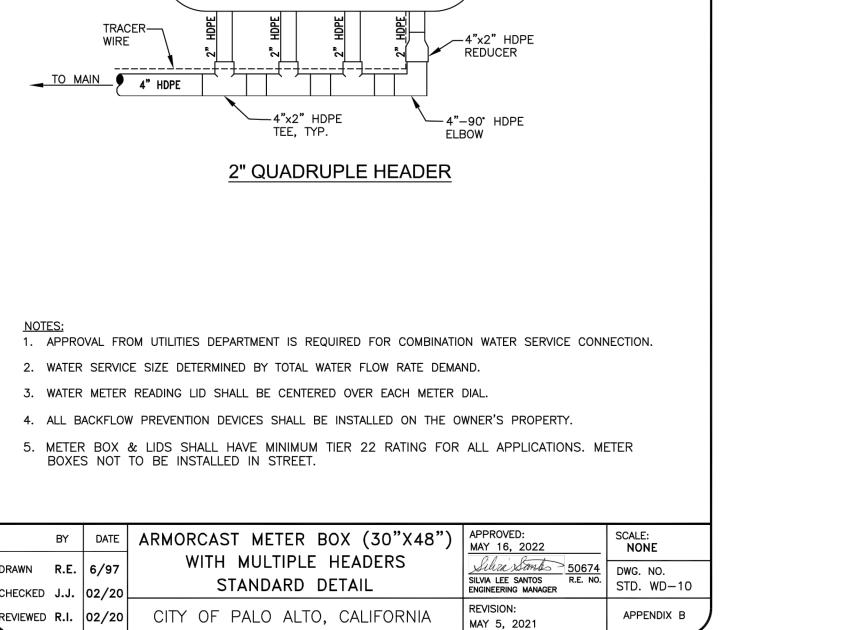
WATER\\

((WATER)

(WATER)

DRIVEWAY

NOT TO SCALE





COMBINED WATER METER

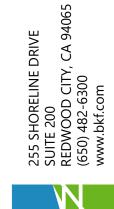
DETAIL A

CROSSWALK IF PROVIDED

DETAIL B

TYPICAL ONE-RAMP CORNER INSTALLATION

Drawing Number:

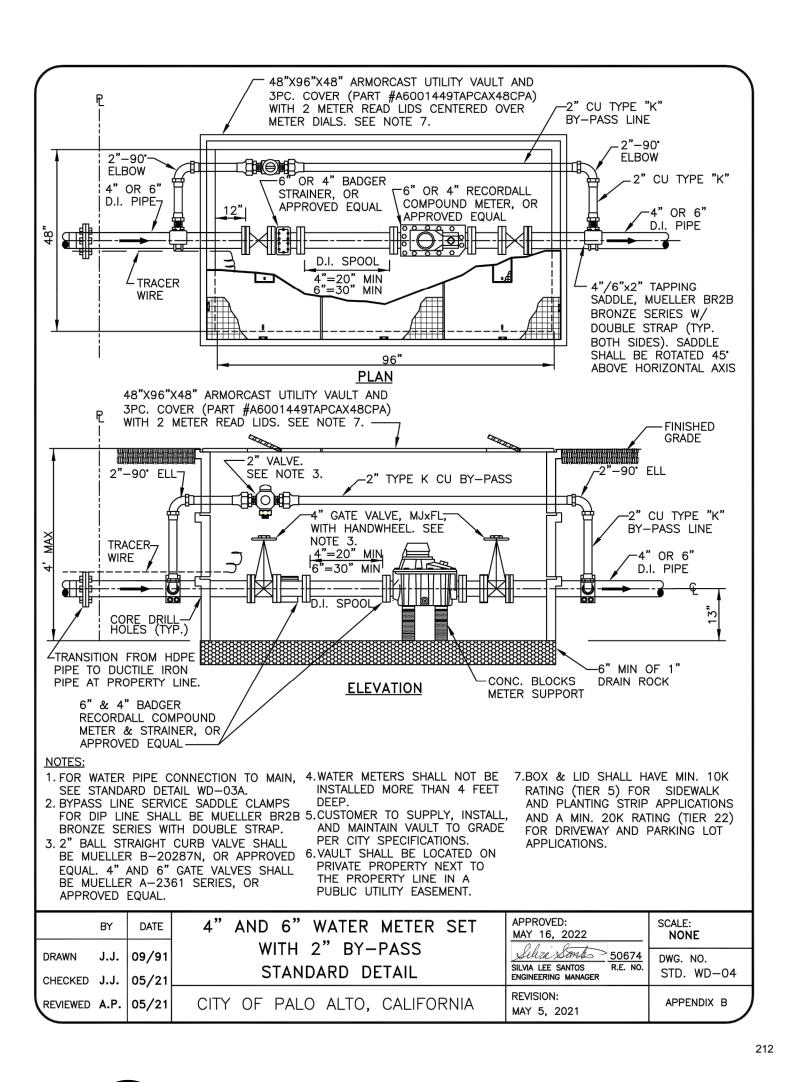


BK

VERSIT

99

Drawing Number: SD7.1

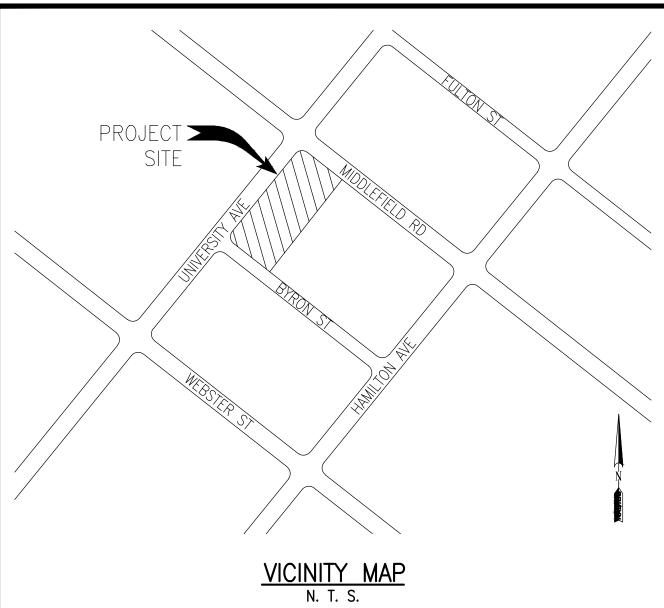


WATER ← ARMORCAST 30"x48"x18" (WATER) (WATER) POLYMER CONCRETE PA253 METER BOX AND COVER ASSEMBLY W/ DROP-IN LIDS #A6001430TAPCX18CPA) TRACER-∕-4"x2" HDPE REDUCER TO MAIN 4" HDPE -4"x2" HDPE ─_4"-90° HDPE TEE, TYP. **ELBOW** 2" QUADRUPLE HEADER 1. APPROVAL FROM UTILITIES DEPARTMENT IS REQUIRED FOR COMBINATION WATER SERVICE CONNECTION. 2. WATER SERVICE SIZE DETERMINED BY TOTAL WATER FLOW RATE DEMAND. 3. WATER METER READING LID SHALL BE CENTERED OVER EACH METER DIAL. 4. ALL BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED ON THE OWNER'S PROPERTY. 5. METER BOX & LIDS SHALL HAVE MINIMUM TIER 22 RATING FOR ALL APPLICATIONS. METER BOXES NOT TO BE INSTALLED IN STREET. SCALE: NONE BY DATE ARMORCAST METER BOX (30"X48") WITH MULTIPLE HEADERS SILVIA LEE SANTOS R.E. NO. ENGINEERING MANAGER DRAWN R.E. 6/97 DWG. NO. STANDARD DETAIL STD. WD-10 CHECKED J.J. 02/20 REVIEWED R.I. 02/20 CITY OF PALO ALTO, CALIFORNIA APPENDIX B

COMBINED WATER METER

NOT TO SCALE

4' WATER METER NOT TO SCALE



WORK RESPONSIBILITY JOINT TRENCH

| | CPAU ELEC CPAU GAS TELEPHONE C.A.T.V. |
|---|--|
| TRENCHING EXCAVATE & BACKFILL | |
| GAS MATERIAL SUPPLY & INSTALL | .0000 |
| *CPAU ELECTRIC CABLE SUPPLY & INSTALL | . • 0 0 0 0 |
| ELECTRIC CONDUIT SUPPLY & INSTALL | |
| ELECTRIC BOXES SUPPLY & INSTALL EXCAVATION. | .0000 |
| ELECTRIC PADS SUPPLY & INSTALL EXCAVATION. | · 0 0 0 0 • · · · 0 0 0 • |
| ELECTRIC TRANSFORMERS SUPPLY & INSTALL | |
| ELECTRIC INTERRUPTERS SUPPLY & INSTALL | .0000 |
| CPAU ELECTRIC SWITCHES SUPPLY & INSTALL | |
| TELEPHONE CONDUIT SUPPLY & INSTALL | .0000 |
| TELEPHONE CABLE SUPPLY & INSTALL | $\cdot \cap \cap \bullet \cap \cap$ |
| TELEPHONE SPLICE BOXES SUPPLY & INSTALL EXCAVATION. | |
| TELEPHONE S.A.I. PADS SUPPLY & INSTALL | .0000 |
| C.A.T.V. CONDUIT SUPPLY & INSTALL | .0000 |
| C.A.T.V. SPLICE BOXES SUPPLY & INSTALL | .0000 |
| C.L.E.C. FIBER CONDUITACCEPTEDDECLINED SUPPLY & INSTALL | . 0 0 0 0 • |
| SUPPLY & INSTALL | .0000 |
| ■ WORK TO BE PERFORMED BY THE RESPECTIVE CONTRACTOR & UTILITY OF ASSUME CONTRACTOR RESPONSIBILITY UNLESS OTHERWISE SPECIFIED ○ NOT APPLICABLE UNLESS OTHERWISE SPECIFIED | COMPANIES |
| | |

THESE PLANS WERE PREPARED IN CONJUNCTION WITH THE FOLLOWING PLANS:

NOTE: FOR A MORE DETAILED WORK RESPONSIBILITY BREAKDOWN, SEE CORRESPONDING MATERIAL LIST.

| | RECEIVED | APPROVED |
|---------------------------------------|------------|-------------|
| CIVIL IMPROVEMENT PLANS/GRADING PLANS | 10-01-2024 | PRELIMINARY |
| ARCHITECTURAL ELECTRONIC FILE | 06-19-2025 | PRELIMINARY |
| APPLICANT DESIGN (GAS) | | |
| APPLICANT DESIGN (ELECTRIC) | | |
| TELEPHONE | | |
| C.A.T.V. | | |
| LANDSCAPE | 09-26-2024 | PRELIMINARY |
| LIGHT LOCATIONS | | |
| TRAFFIC SIGNAL LOCATIONS | | |

RADIUS DESIGN is not responsible for any

* CPAU TO PULL CABLE INTO ENERGIZED ENCLOSURES

subsequent changes or revisions. OTHER UTILITIES SHOWN ARE APPROXIMATE AND BASED ON FIELD SURVEY AND AVAILABLE UTILITY INFORMATION. IT IS THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION AND EXTENT OF UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. PHYSICAL VERIFICATION OF UTILITY LOCATIONS SHALL BE PERFORMED BY CAREFUL PROBING OR HAND DIGGING IN

ACCORDANCE WITH ARTICLE 6 OF THE CAL/OSHA CONSTRUCTION SAFETY ORDERS.

- ALL TRENCHING, BACKFILLING AND INSTALLATION BY CONTRACTOR MUST COMPLY WITH CITY OF PALO ALTO STANDARDS. ALL WORK MUST COMPLY WITH CITY OF PALO ALTO(CPA), TELEPHONE, C.A.T.V., STANDARDS AND PRACTICES. ALL WORL MUST BE INSPECTED AND APPROVED BY RESPECTIVE INSPECTORS. RANDOM SOIL SAMPLES SHALL BE TAKEN FROM A MINIMUM OF THREE LOCATIONS PER 1,000' OF TRENCH. 100% OF THE SAMPLE MUST PASS THROUGH A 1/2" SIEVE AN 75% MUST PASS THROUGH A #4 SCRÉEN. ADDITIONAL SAMPLES MUST BE TAKEN IF EXISTING SOIL CONDITIONS CHANGE AND IS TO BE AT THE DISCRETION OF THE CPA REPRESENTATIVE ON SITE. THE SOILS MUST NOT CONTAIN ANY ROCKS THAT HAVE SHARP EDGES OR THAT MAY OTHERWISE BE ABRASIVE. THE SOILS MUST NOT CONTAIN CLODS LARGER THAN ½" IF TO BE USED AS SHADING, BEDDING OR LEVELING MATERIALS. COMPACTION REQUIREMENTS MUST MEET ANY APPLICABLE CPA FEDERAL, STATE, COUNTY OR LOCAL REQUIREMENTS. ANY NATIVE SOILS OR IMPORT MATERIALS USED MUST NOT HINDER THOSE EFFORTS.
- BACKFILL SHALL BE APPROVED BY THE UTILITY COMPANIES AND THE CITY. COMPACTION WILL BE TESTED AND PASSED
- 4. IF SOIL IS NOT ROCK FREE, ADD 4" DEPTH OF TRENCH FOR SAND BEDDING.
- VERIFY SPLICE BOX EXCAVATION SIZES WITH SUPPLIER(S).
- 6. THE TRENCHING CONTRACTOR SHALL COORDINATE THE UTILITY COMPANIES' INSTALLATION.
- CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THE PROJECT IMPROVEMENT PLANS AND CONDUCT HIS WORK
- IT IS THE TRENCHING CONTRACTOR'S RESPONSIBILITY TO PROTECT IN PLACE ALL EXISTING FACILITIES. NO EXTRA PAYMENT WILL BE CONSIDERED FOR CROSSING OTHER SYSTEMS.
- RADIUS DESIGN ASSUMES NO RESPONSIBILITY FOR THE PROJECT CONDITIONS. THESE DRAWINGS WERE PREPARED USING DATA SUPPLIED BY CPA, TELEPHONE, C.A.T.V., IMPROVEMENT PLANS AND THE CITY'S VARIOUS "AS BUILT" INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY REVIEW THE PROJECT PRIOR TO SUBMITTING HIS BID.
- . CONTRACTOR WILL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS. CONTRACTOR SHALL BE FAMILIAR WITH O.S.H.A., INDUSTRIAL SAFETY ORDERS AND SHALL CONDUCT HIS WORK ACCORDINGLY. WHEN WORKING NEAR ENERGIZED OR "HOT" EQUIPMENT, THE UTILITY OWNER SHALL BE NOTIFIED TO SUPPLY THE APPROPRIATE MAN POWER. PUBLIC SAFETY AND TRAFFIC CONTROL MEASURES ARE THE CONTRACTOR'S RESPONSIBILITY.
- . THE CONTRACTOR SHALL PROTECT CONSTRUCTION STAKING. HE SHALL COORDINATE STAKING WITH THE PROJECT'S CIVIL
- . CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) TWO WORKING DAYS PRIOR TO START OF WORK. (800)
- CONTRACTOR SHALL NOTIFY INSPECTORS OF ANY POTENTIAL CONFLICTS PRIOR TO START OF WORK.
- 4. THIS PLAN IS TO BE USED FOR SOLE PURPOSE OF DIGGING THE JOINT TRENCH. SEE CPA. AT&T. AND COMCAST PLANS FOR EXACT SIZE AND NUMBER OF CONDUITS INSTALLED IN THE JOINT TRENCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE CORRECT NUMBER, SIZE AND TYPES OF CONDUITS ARE INSTALLED PER THE ENGINEERED PLANS BY
- 15. NOTE PLANS ISSUED AT THE PRE-CONSTRUCTION MEETING MAY BE SUBJECT TO REVISIONS, IF FINAL PLANS FROM EACH UTILITY COMPANY WERE NOT AVAILABLE AT THE START OF CONSTRUCTION.
- 6. WATER, SEWER, DRAINS, SANITARY WASTE, FUELS (INCLUDING DIESEL AND GASOLINE), OIL, PROPANE AND OTHER VOLATILE HEAVIER THAN AIR GASES, SPRINKLER, IRRIGATION, STEAM AND OTHER "WET" FACILITIES SHALL MAINTAIN A MINIMUM OF FOUR FEET FROM THE NEAREST OUTER SURFACE OF CPA DRY FACILITIES WITH NO LESS THAN ONE FOOT OF EARTH (SOIL BARRIER) BETWEEN THE ADJACENT SIDES OF THE INDIVIDUAL TRENCHES.
- 7. IN THE EXTRAORDINARY CASE THAT THE MINIMUM FOUR FOOT HORIZONTAL SEPARATION CANNOT BE ATTAINED BETWEEN " UTILITIES AND COMPANY DRY FACILITIES, A VARIANCE MAY APPROVED BY THE LOCAL INSPECTION SUPERVISOR AND SUBMITTED TO SERVICE PLANNING SUPPORT PROGRAM MANAGER FOR APPROVAL.
- 18. THIS JOINT TRENCH PLAN WAS PREPARED BASED ON TOPOGRAPHICAL SURVEY AS PROVIDED BY A CIVIL ENGINEER. THE CONTRACTOR IS CAUTIONED THAT EXPLORATORY WORK IS NECESSARY TO DETERMINE THE ACTUAL LOCATION OF ANY EXISTING UTILITY. RADIUS STRONGLY RECOMMENDS THAT ALL UTILITIES BE PHYSICALLY LOCATED ON THE SITE BEFORE THE ONSET OF SITE WORK. EXISTING UTILITY LOCATIONS.

DIRECT BURIED PRIMARY CONDUIT IS NOT AN APPROVED CONSTRUCTION METHOD. PRIMARY CONDUITS SHALL BE CONCRETE ENCASED, UNLESS OTHERWISE APPROVED BY CPAU UTILITIES ENGINEER. APPROVED CONDUIT MATERIALS:

- B. TYPE "DB 60" (SECONDARY) OR "DB 120" (PRIMARY) PLASTIC CONDUIT C. GALVANIZED RIGÌD STEEL CÓNDUIT.
- EVERY EFFORT MUST BE MADE TO OBTAIN STRAIGHT WATER-TIGHT CONDUIT LINE.
- SHARP TURNS MUST BE AVOIDED, PER THE TABLE BELOW. NORMALLY, THE PRIMARY DUCT RADIUS IS SPECIFIED. UNLESS APPROVED BY THE PROJECT ENGINEER, FACTORY OFFSETS WILL NOT BE USED.
- ALL BENDS AND SWEEPS (90 DEGREES) MUST BE ENCASED IN CONCRETE (MINIMUM 3") ALONG THE INSIDE RADIUS. IF THE ELECTRIC UNDERGROUND INSPECTOR DETERMINES THAT THE BOTTOM OF THE TRENCH IS ROCKY, THEN A 2" SAND BEDDING MUST BE INSTALLED BEFORE CONDUIT.
- BACKFILL IN UNIMPROVED AREAS SHALL BE 12" OF CLEAN NATURAL SAND PER CALTRANS STD SPECS SEC 19-3.025B ON TOP OF THE UPPERMOST CONDUIT, 90% COMPACTION; TOPPED WITH EXCAVATED NATIVE SOIL, 85% COMPACTION.
- BACKFILL IN IMPROVED AREAS MUST BE IN ACCORDANCE WITH CITY OF PALO ALTO STANDARD SPECIFICATIONS FOR BACKFILLING IN IMPROVED AREAS. (SECTION 21)
- ALL CONDUITS MUST BE MANDRELLED (STD. DWG DT-SS-U-1025). THIS TEST MUST BE WITNESSED BY THE ELECTRIC UNDERGROUND INSPECTOR.
- 9. A 3/8" POLYPROPYLENE PULL LINE (MIN. 150 LBS. TEST) MUST BE INSTALLED IN EACH CONDUIT.
- 10. CONDUIT SPACING SHALL BE MAINTAINED BY SPACERS, APPROVED BY CPA, INSTALLED NO MORE THAN 7' APART. CONDUIT MUST BE SECURELY BOUND TO THE SPACERS.
- MINIMUM COVER FOR DIRECT BURIED CONDUIT: -SECONDARY (NOT TRAFFIC)
- -COMMUNICATION (NOT TRAFFIC) -SECONDARY (TRAFFICE) -COMMUNICATION (TRAFFIC)
- COVER MAY BE REDUCED TO 18" FOR SECONDARY UNDER SIDEWALKS, WITH THE PROJECT ENGINEER'S APPROVAL.
- 12. HORIZONTAL SPACING BETWEEN SECONDARY, COMMUNICATION, TELEPHONE, AND STREET LIGHTING CABLES OR DUCTS MAY BE RANDOM UNLESS OTHERWISE SPECIFIED.
- 13. IN EVERY CASE, VERTICAL CLEARANCE BETWEEN ELECTRIC LINES AND UTILITY LINE CROSSINGS MUST BE AT LEAST 12". * DIRECT PRIMARY CONDUIT IS NO LONGER AN APPROVED CONSTRUCTION METHOD.

ELECTRIC UTILITIES DEPARTMENT COMMENTS & CONDITIONS

- ALL ELECTRICAL VAULT INSTALLATIONS, REMOVALS AND RELOCATION'S SHALL BE AT CUSTOMER/DEVELOPER'S EXPENSE. PRIMARY CONDUIT SHALL BE CONCRETE ENCASED PER CPA REQUIREMENTS.
- . THE FINAL JOINT TRENCH AND VAULT DETAILS MUST BE APPROVED BY THE CITY'S ELECTRICAL ENGINEERING DEPARTMENT
- APPLICANT SHALL NOTIFY THE ELECTRIC UTILITY INSPECTOR PRIOR TO CONSTRUCTION OF ANY ELECTRICAL UTILITY
- 5. NO STRUCTURES PERMITTED TO BE BUILT WITHIN EXISTING PUBLIC UTILITY EASEMENTS.
- THE CONTRACTOR SHALL MAINTAIN 12" CLEAR, ABOVE AND BELOW FROM THE EXISTING UTILITIES TO NEW UNDERGROUND
- APPLICANTS SHALL PROVIDE PROTECTION FOR UTILITY LINES SUBJECT TO DAMAGE. EXPOSED ELECTRIC CONDUIT OR DUCT SHALL BE INSPECTED BY THE ELECTRICAL UTILITY INSPECTOR PRIOR TO BACKFILLING.
- ANY EXTENSION OR RELOCATION OF EXISTING DISTRIBUTION LINES OR EQUIPMENT SHALL BE DONE AT
- CUSTOMER/DEVELOPER'S EXPENSE.

TEL OR COMM BEDDING WHERE REQ'D CONCRETE 3" MIN 3" MIN

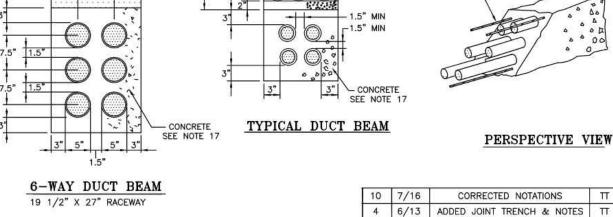
<u>Direct Buried Conduit</u>

ELECTRIC CONDUIT MINIMUM BEND RADIUS FOR NEW CONSTRUCTION SERVICE CONDUIT DIAMETER | VERTICAL RADIUS | HORIZONTAL RADIUS

NO MORE THAN 270 DEGREES OF BENDS ARE ALLOWED BETWEEN PULL BOXES IN A SECONDARY CONDUIT RUN. NO MORE THAN 180 DEGREES OF BENDS ARE ALLOWED BETWEEN PULL BOXES IN A PRIMARY CONDUIT RUN.

SAND BEDDING AS REQ'D, SEE NOTE 7 CONDUITS E - ELECTRIC T - TELEPHONE C - CABLE G - GAS JOINT SERVICE TRENCH WITH GAS ALLOWED FOR RESIDENTIAL SERVICES ONLY - CONCRETE SEE NOTE 17 -1-WAY DUCT BEAM 2-WAY DUCT BEAM 4-WAY DUCT BEAM

BACKFILL - BACKFILL - SEE NOTE 8 & 9



| | | TOP CONTROLLED SPECIAL CONTROL CONTROL OF THE PROPERTY OF THE | |
|-----|-------|---|--|
| 4 | 6/13 | ADDED JOINT TRENCH & NO | OTES TT |
| 3 | 10/09 | REVISED MIN PRIMARY COV | ER TT |
| 2 | 8/08 | COMBINED DT-SS-U-10 | 003 TT |
| 1 | 6/06 | REVISED NOTES | JT |
| REV | DATE | DESCRIPTION | APP |
| | NTS | DT-SS-U-1003 | 1 OF 4 |
| S | CALE | STANDARD NO. | SHEET NO. |
| _ | | 3 10/09 2 8/08 1 6/06 | 3 10/09 REVISED MIN PRIMARY COV 2 8/08 COMBINED DT-SS-U-10 1 6/06 REVISED NOTES REV DATE DESCRIPTION NTS DT-SS-U-1003 |

CONCRETE TRANSFORMER PAD NOTES:

- DISTURBED EARTH UNDER THE PAD SHALL BE REPLACED BY SAND OR OTHER SUITABLE MATERIAL SOILS COMPACTED TO 95% OF MAXIMUM DRY DENSITY (ASTM D-1557).
- 2. PLACE 6" DEPTH ONE SACK. PER CUBIC YARD, SLURRY IMMEDIATELY BELOW THE PAD.
- 3. CONCRETE IS REQUIRED BETWEEN ALL CONDUITS, LEVEL TO TOP OF THE PAD.
- . CONCRETE SHALL BE DESIGNED TO ATTAIN STRENGTH OF 3000 PSI IN 28 DAYS.
- . AFTER PLACING, MOIST CURE CONCRETE FOR 7 DAYS.
- 6. WOOD FLOAT FINISH TOP OF SLAB. ALL SHARP EDGES AND CORNERS TO BE FINISHED SMOOTH
- EXPOSED HORIZONTAL SURFACES TO BE SLOPED SLIGHTLY FOR DRAINAGE.
- 8. A MINIMUM OF 6 FEET SHALL BE MAINTAINED BETWEEN GROUND RODS.
- 9. CAP ALL CONDUITS.
- 10. A MINIMUM OF 3 FEET OF RADIAL CLEARANCE BETWEEN THE TRANSFORMER PAD AND ANY OTHER STRUCTURE SHALL BE PROVIDED.
- 1. IF THE TRANSFORMER IS TO BE LOCATED IN AN AREA SUBJECTED TO VEHICULAR TRAFFIC, BARRIERS SHALL BE REQUIRED PER DT—SS—C—1005. CITY OF PALO ALTO WILL DETERMINE THE TYPE, NUMBER REQUIRED, AND LOCATION.
- 2. PLASTIC CONDUITS SHALL BE TERMINATED WITH END BELLS. GALVANIZED STEEL CONDUITS SHALL BE TERMINATED WITH GROUND BUSHINGS. ALL CONDUITS AND ENDS WILL BE TO THE FINAL
- 13. PRIMARY CONDUIT BENDS SHALL HAVE A MINIMUM RADIUS OF 36".
- 14. PRIMARY CONDUITS SHALL BE LOCATED IN THE LEFT HALF OF THE CONDUIT OPENING. SECONDARY CONDUITS SHALL OCCUPY THE RIGHT HALF.
- 15. THE TRANSFORMER PAD SHALL BE LOCATED A MINIMUM OF 3 FEET FROM ANY BUILDING OR
- 6. ALL REBAR SHALL BE A−615 GRADE 40. REBAR JOINTS SHALL BE FIRMLY AND SECURELY HELD
- IN POSITION BY WIRING AT INTERSECTIONS WITH NO. 16 GAGE WIRE.
- 1. MAXIMUM NUMBER OF CONDUITS ENTERING SECONDARY SLOT SHALL BE FOUR. CONTACT THE ELECTRIC UTILITY PROJECT ENGINEER FOR DESIGN WITH MORE THAN FOUR SECONDARY.
- 18. GROUND ROD AND CLAMP, 5/8"X8". SEE CPA STANDARD DRAWING #DT-SS-U-1001.
- 19. TRANSFORMER ANCHORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. EXPANSION BOLT SHALL BE "PARABOLT" BY MOLY OR APPROVED EQUAL. MINIMUM EMBEDMENT LENGTH AND EDGE DISTANCE SHALL MEET THE MANUFACTURER'S REQUIREMENTS.
- 20. A MINIMUM OF 8 FEET CLEARANCE SHALL BE MAINTAINED FROM THE FRONT SIDE OF THE PAD. A MINIMUM OF 3 FEET CLEARANCE SHALL BY MAINTAINED ON UNOPERABLE SIDES AND BACK. ALL MEASUREMENTS ARE TAKEN FROM THE PAD.

OTHER NOTES

- EASEMENTS MUST BE GRANTED TO THE CITY OF PALO ALTO FOR SWITCH, TRANSFORMERS, AND CONDUIT ON-SIITE.
- 2. ELECTRIC METERS MUST BE IN AN AREA READILY ACCESSIBLE TO CAPU DURING ALL HOURS.
- 3. UTILITY VAULTS, TRANSFORMERS, UTILITY CABINETS, CONCRETE BASES, OR OTHER STRUCTURES CAN NOT BE PLACED OVER EXISTING WATER, GAS OR WASTEWATER MAIN/SERVICES. MAINTAIN 1 HORIZONTAL CLEAR SEPARATION FROM THE VAULT/CABINET/CONCRETE BASE TO EXISTING UTILITIES AS FOUND IN THE FIELD. IF THERE IS A CONFLICT WITH EXISTING UTILITIES, CABINETS/VAULTS/BASES SHALL BE RELOCATED FROM THE PLAN LOCATION AS NEEDED TO MEET FIELD CONDITIONS.

GENERAL NOTES:

8 2

- JOINT TRENCH MUST BE INSTALLED ENTIRELY WITHIN AN EASEMENT. EASEMENTS FOR JOINT TRENCH SERVICE LATERALS WITHIN PROJECT ON PRIVATE PROPERTY ARE AT THE DISCRETION OF THE UTILITY COMPANIES.
- 2. ALL DEPTHS AND RESULTING COVER REQUIREMENTS ARE MEASURED FROM FINAL GRADE.
- 5. COVER, CLEARANCES, AND SEPARATION SHALL BE AS GREAT AS PRACTICABLE UNDER THE CIRCUMSTANCES. BUT UNDER NO CIRCUMSTANCES SHALL BE LESS THAN THE MINIMUM COVER, CLEARANCE, AND SEPARATION REQUIREMENTS SET FORTH IN GENERAL ORDER 128 AND 49CFR 192.321, 49CFR 192.325, AND 49CFR 192.327. ALL FACILITIES SHALL BE ANCHORED IN PLACE PRIOR TO COMPACTION, OR OTHER MEANS SHALL BE TAKEN TO ENSURE NO MOTION OF THE FACILITIES. DIMENSIONAL REQUIREMENTS FOR SHADING, LEVELING, AND BACKFILLING SHALL BE DETERMINED SUBSEQUENT
- TRENCH DIMENSIONS SHOWN ARE TYPICAL. TRENCH SIZES AND CONFIGURATIONS MAY VARY DEPENDING UPON OCCUPANCY AND/OR FIELD CONDITIONS. TRENCH SIZE AND CONFIGURATION MUST AT ALL TIMES BE CONSTRUCTED IN A MANNER THAT ENSURES PROPER CLEARANCES AND COVER REQUIREMENTS ARE MET. ANY "CHANGE" TO THE TRENCH WIDTH AND CONFIGURATIONS AS SHOWN IN THIS EXHIBIT MUST BE DESIGNED TO ENSURE THIS REQUIREMENT.
- IT IS PREFERRED TO HAVE NON-CPA OWNED STREETLIGHTS AT A LEVEL OTHER THAN THE GAS OR ELECTRIC LEVEL. NON-CPA OWNED STREETLIGHTS MAY BE AT THE ELECTRIC LEVEL OF THE TRENCH AS LONG AS MINIMUM CLEARANCES ARE PROVIDED AND COMPLY WITH ALL SPECIAL NOTES FOR A JOINT TRENCH WITH A SECOND ELECTRIC UTILITY.
- NON-UTILITY FACILITIES ARE NOT ALLOWED IN ANY JOINT UTILITY TRENCH, E.G., IRRIGATION CONTROL LINES, BUILDING FIRE ALARM SYSTEMS, PRIVATE TELEPHONE SYSTEMS, OUTDOOR ELECTRICAL CABLE, ETC.
- PROVIDE SEPARATION FROM TRENCH WALL AND OTHER FACILITIES SUFFICIENT TO ENSURE PROPER COMPACTION.

8. MAINTAIN PROPER SEPARATION BETWEEN CPA FACILITIES AND "WET" UTILITY LINES AS DESCRIBED IN CITY OF PALO ALTO

- STANDARDS. 9. SEPARATIONS SHALL BE MAINTAINED AT ABOVEGROUND TERMINATION POINTS.
- 10. PROCEDURES FOR APPROVING NATIVE BACKFILL FOR SHADING OF CPA GAS FACILITIES: - RANDOM SOIL SAMPLES SHALL BE TAKEN FROM A MINIMUM OF 3 LOCATIONS PER 1,000' OF TRENCH. 100% OF THE
- SAMPLE MUST PASS THROUGH A 1/2" SIEVE AND 75% MUST PASS THROUGH A #4 SCREEN. ADDITIONAL MUST BE TAKEN IF EXISTING SOIL CONDITIONS CHANGE AND ARE TO BE TAKEN AT THE DISCRETION OF THE - THE SOILS MUST NOT CONTAIN ANY ROCKS THAT HAVE SHARP EDGES OR THAT MAY OTHERWISE BE ABRASIVE.
- THE SOILS MUST NOT CONTAIN CLODS LARGER THAN 1/2" IF TO BE USED AS SHADING, BEDDING, OR LEVELING - COMPACTION REQUIREMENTS MUST MEET ANY APPLICABLE CPA, FEDERAL, STATE, COUNTY, OR LOCAL REQUIREMENTS.
- AT NO TIME SHALL THE OVER SATURATION OF NATIVE SOILS BE USED TO ACHIEVE THESE REQUIREMENTS. THE SIEVES AND SCREENS SHALL BE:
- 1/2" SIEVE: 8" DIAMETER BY 2" DEEP, STAINLESS STEEL MESH SCREEN. - #4 SCREEN: 8" DIAMETER BY 2" DEEP, STAINLESS STEEL MESH SCREEN.
- PROCEDURES FOR APPROVING NATIVE BACKFILL FOR SHADING AT CPA ELECTRIC FACILITIES: - RANDOM SOIL SAMPLES SHALL BE TAKEN FROM A MINIMUM OF 3 LOCATIONS PER 1,000' OF TRENCH. ADDITIONAL SAMPLES MUST BE TAKEN IF EXISTING SOIL CONDITIONS CHANGE AND ARE TO BE TAKEN AT THE DISCRETION OF THE CPA REPRESENTATIVE ON SITE. - SHADING MATERIAL CONTAINING LARGE ROCK, PAVING MATERIAL, CINDERS, SHARPLY ANGULAR SUBSTANCES, OR
- CORROSIVE MATERIAL SHALL NOT BE PLACED IN THE TRENCH WHERE SUCH MATERIAL MAY DAMAGE THE AND/OR PREVENT PROPER COMPACTION OVER OR AROUND THE CONDUITS. - NATIVE SOILS CONTAINING CLODS NOT TO EXCEED 6" IN DIAMETER MAY BE INCLUDED IN THE SHADING MATERIAL PROVIDED THE CLODS ARE READILY BREAKABLE BY HAND.
- NOTE: SOILS CONSISTING PRIMARILY OF ADOBE, HARD COMPACT (DENSE) CLAY, AND BAY MUDS SHALL NOT BE USED AS SHADING MATERIAL. - AT NO TIME SHALL THE OVER SATURATION OF NATIVE SOILS BE USED TO ACHIEVE THESE REQUIREMENTS. - REFER TO ENGINEERING DOCUMENT 062288, ITEM 13 ON PAGE 2.
- . COMPETENT NATIVE SOILS ARE PREFERRED TO BE USED FOR SHADING, BEDDING, AND BACKFILLING THROUGHOUT THE - WHERE NATIVE SOILS EXCEED 1/2" MINUS AND/OR WHERE GAS IS TO BE PLACED AT THE BOTTOM OF A TRENCH IN AREAS THAT EXCEED 1/2" MINUS SOIL CONDITIONS, OR WHERE THE BOTTOM OF A TRENCH IS CONSIDERED TO
- CONSIST OF HARD PAN, CPA APPROVED 1/2" MINUS IMPORT MATERIAL SHALL BE USED FOR SHADING BEDDING OF GAS FACILITIES - CPA APPROVED IMPORT MATERIAL IS PER CGT ENGINEERING GUIDELINE 4123. - IF A LEVELING COURSE IS REQUIRED FOR GAS FACILITIES, THE USE OF NATIVE SOILS IS PREFERRED, BUT IF 1/2"
- MINUS CONDITIONS ARE NOT ATTAINABLE WITH THE NATIVE SOILS, THEN THE USE OF CPA APPROVED IMPORT IS REQUIRED. BEDDING UNDER GAS FACILITIES WILL BE A MINIMUM OF 2" OF COMPACTED 1/2" MINUS NATIVE OR CPA APPROVED IMPORT MATERIAL. - FOR ELECTRIC FACILITIES, REFER TO NOTE 12. THIS APPLIES TO LEVELING COURSES AS WELL AS SHADING - THE MINIMUM CPA APPROVED BEDDING MATERIAL MAY BE INCREASED AT THE DISCRETION OF CPA WHEN WARRANTED
- NATIVE SOILS DO NOT ALLOW FOR REQUIRED COMPACTION. 3. THE APPLICANT IS RESPONSIBLE FOR THE REMOVAL OF EXCESS SPOIL AND ASSOCIATED COSTS.

CLEARANCES, SEPARATION, AND COVERAGE REQUIREMENTS ARE MAINTAINED.

BY EXISTING FIELD CONDITIONS (E.G., ROCKY SOILS, HARD PAN, ETC.

14. SERVICE SADDLES ARE THE PREFERRED SERVICE FITTINGS FOR USE THROUGHOUT THE JOINT TRENCH PROJECT. ALL PROJECTS WILL BE DESIGNED AND ESTIMATED USING SERVICE SADDLES. HOWEVER, SERVICE TEES MAY BE USED IF ALL

- THE USE OF ANY IMPORTED MATERIAL FOR BACKFILLING PURPOSES SHALL BE LIMITED TO THOSE SITUATIONS WHEN

. ELECTRIC GENERATION EQUIPMENT IS NOT PART OF RADIUS SCOPE. ALL RELATED DESIGNS, APPLICATIONS, AND COORDINATION WITH INTERCONNECTION/NET METERING DEPARTMENT SHALL BE HANDLED BY THE EQUIPMENT VENDOR OR

| | | | _ |
|----------------|-------------------|------|-------|
| | JTILITY APPROVALS | | |
| UTILITY | APPROVED BY | DATE | |
| AT&T (PHONE) | | | _ |
| COMCAST (CATV) | | | |
| | | | |
| | | | |
| | | | |

| <u>FOR</u> | RADIUS QA REV | <u>USE ONLY</u> IEW |
|------------|------------------|------------------------|
| | INITIALS | REVIEW DATE |
| INTENT | | |
| COMPOSITE | | |
| PRE-CON | | |
| PRE-CON | | |
| | • | |

DEVELOPER:

KSH ARCHITECTS 349 SUTTER STREET SAN FRANCISCO, CA 94108 AMANDA BORDEN (415) 954-1960 ABORDEN@KSHA.COM

JOINT TRENCH TITLE SHEET No. 26429 JOINT TRENCH INTENT Exp. 03-31-24 SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301





UTILITY DESIGN CONSULTANTS & ENGINEERS 201 N. CIVIC DRIVE, SUITE 135, WALNUT CREEK, CA 94596 Tel (925) 269-4575

ISSUES AND REVISIONS DESCRIPTION

12.01.21 PLANNING SUBMITTAL 05.13.22 PLANNING RESUBMITTAL #1 08.15.22 PLANNING RESUBMITTAL #2 11.02.22 PLANNING RESUBMITTAL #3

PLANNING RESUBMITTAL #4 08.28.23 PLANNING RESUBMITTAL #5 PLANNING RESUBMITTAL #8

PLANNING RESUBMITTAL #9 PLANNING RESUBMITTAL #10 06.20.25

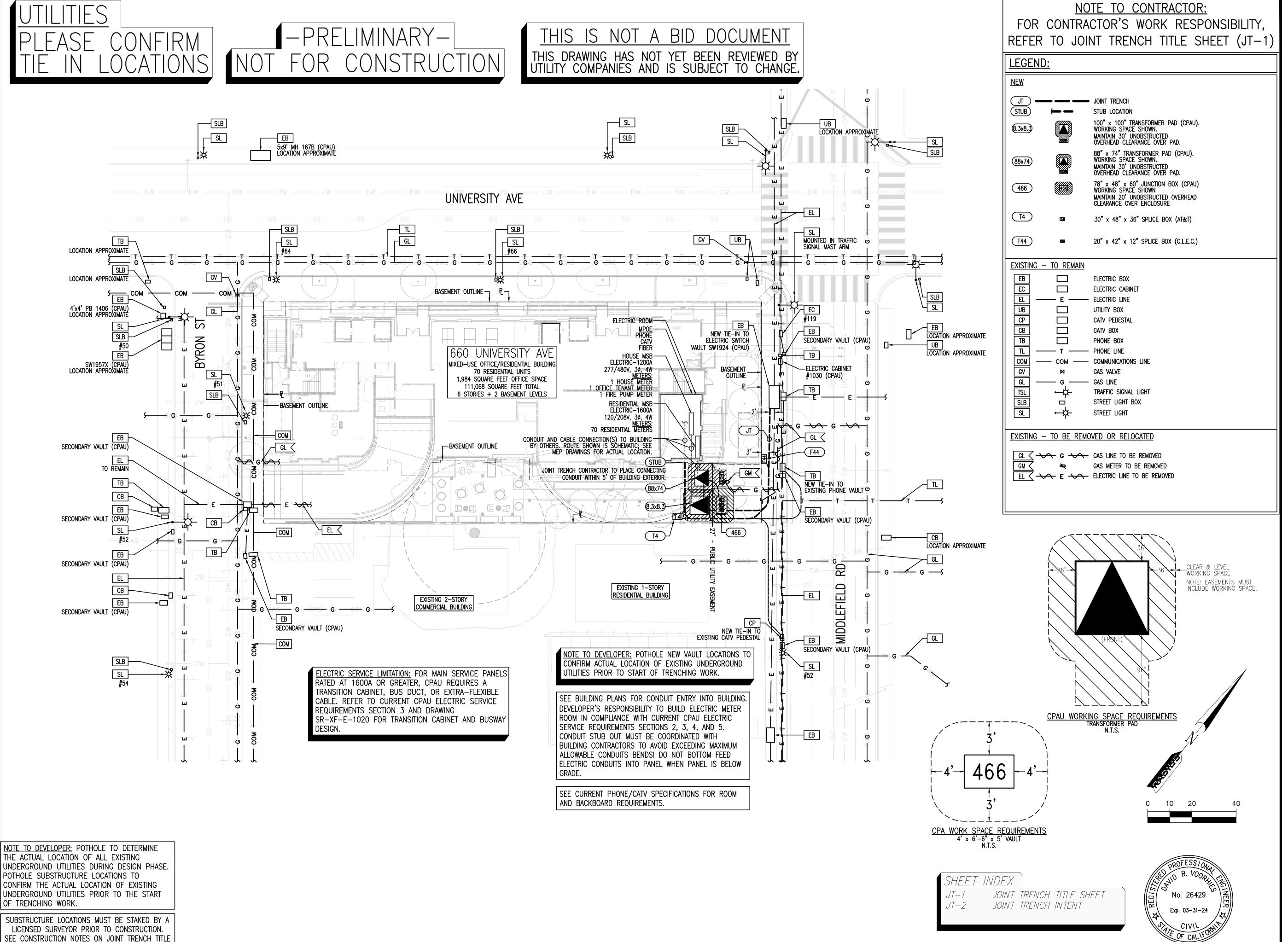
PROJECT NUMBER

SHEET TITLE

JOINT TRENCH TITLE SHEET

SCALE N.T.S NORTH

SHEET NUMBER



SHEET (JT-1) REGARDING EXISTING CONDITIONS.

SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301





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Tel (925) 269-4575

| ISSUES AND REVISIONS | |
|----------------------|--|
| | |

| NO. | DATE | DESCRIPTION |
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| | 12.01.21 | PLANNING SUBMITTAL |
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| | 10.31.23 | PLANNING RESUBMITTAL #5 |
| | 09.18.24 | PLANNING RESUBMITTAL #8 |
| | 12.17.24 | PLANNING RESUBMITTAL #9 |
| | 06.20.25 | PLANNING RESUBMITTAL #10 |
| | | |

PROJECT NUMBER 21003

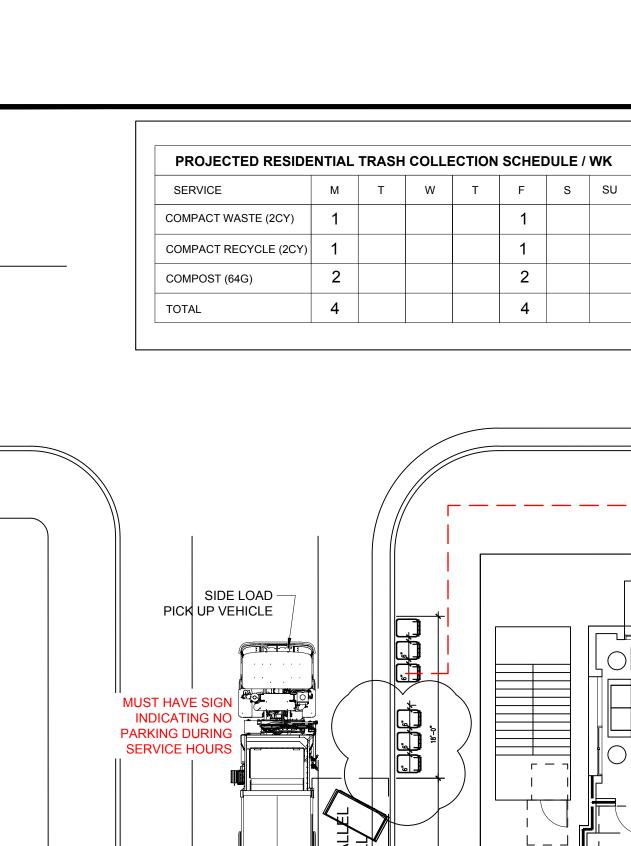
SHEET TITLE

JOINT TRENCH INTENT

SCALE 1' = 20"

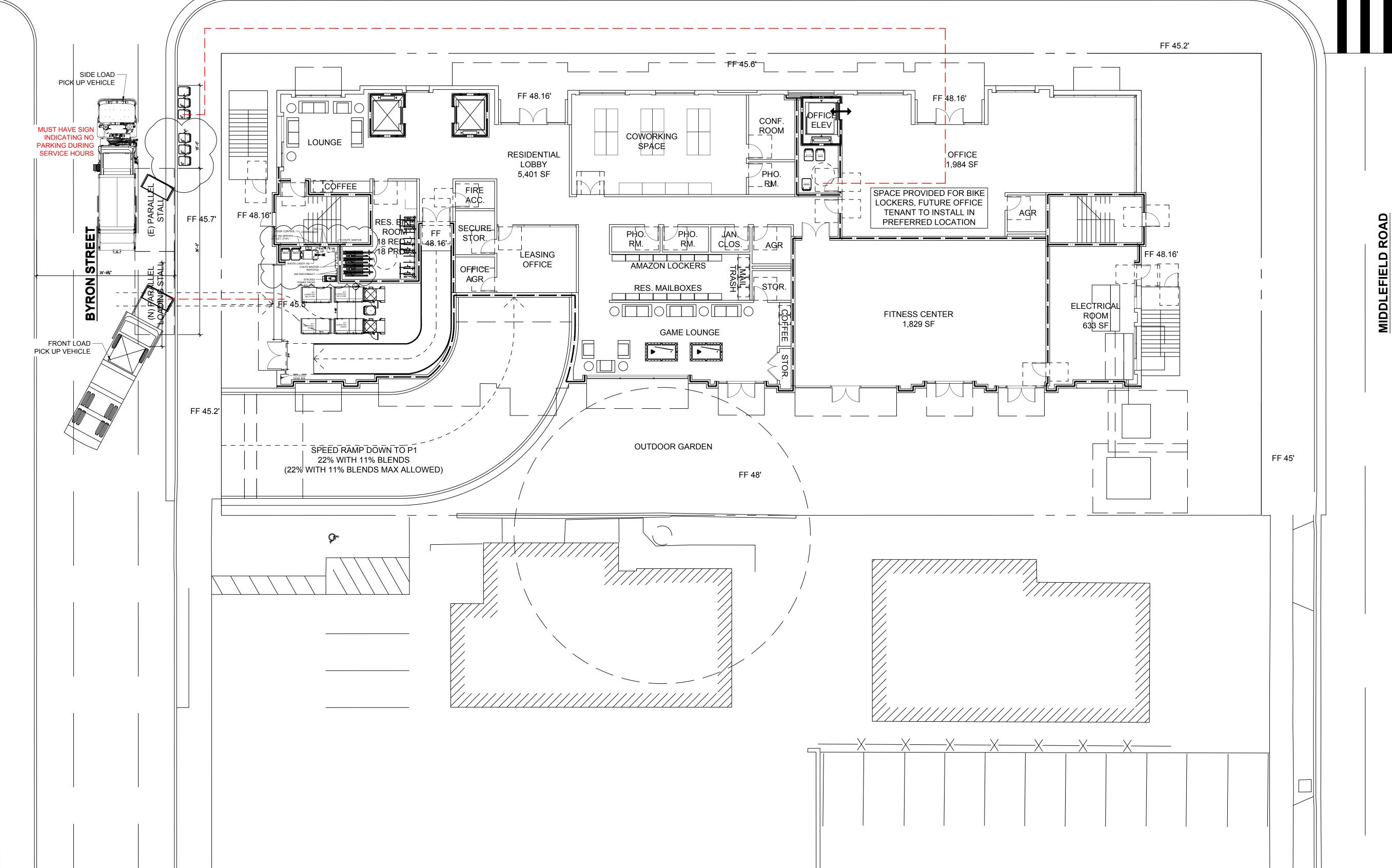


SHEET NUMBER



| PROJECTED RETAIL OFFICE TRASH SCHEDULE / WK | | | | | | | |
|---|---|---|---|---|---|---|----|
| SERVICE | М | Т | W | Т | F | S | SU |
| LOOSE WASTE (64G) | 1 | | | | | | |
| LOOSE RECYCLE (64G) | 1 | | | | | | |
| COMPOST (64G) | 1 | | | | | | |
| TOTAL | 3 | | | | | | |

UNIVERSITY AVE



SMITH DEVELOPMENT

660 UNIVERSITY
PALO ALTO, CA 94301





DESCRIPTION

12.01.21 PLANNING SUBMITTAL
05.13.22 PLANNING RESUBMITTAL #1
08.15.22 PLANNING RESUBMITTAL #2
11.02.22 PLANNING RESUBMITTAL #3
08.28.23 PLANNING RESUBMITTAL #4
10.31.23 PLANNING RESUBMITTAL #5
12.21.23 PLANNING RESUBMITTAL #6
02.07.24 PLANNING RESUBMITTAL #7
09.18.24 PLANNING RESUBMITTAL #8
06.20.25 PLANNING RESUBMITTAL #10

PROJECT NUMBER 21003

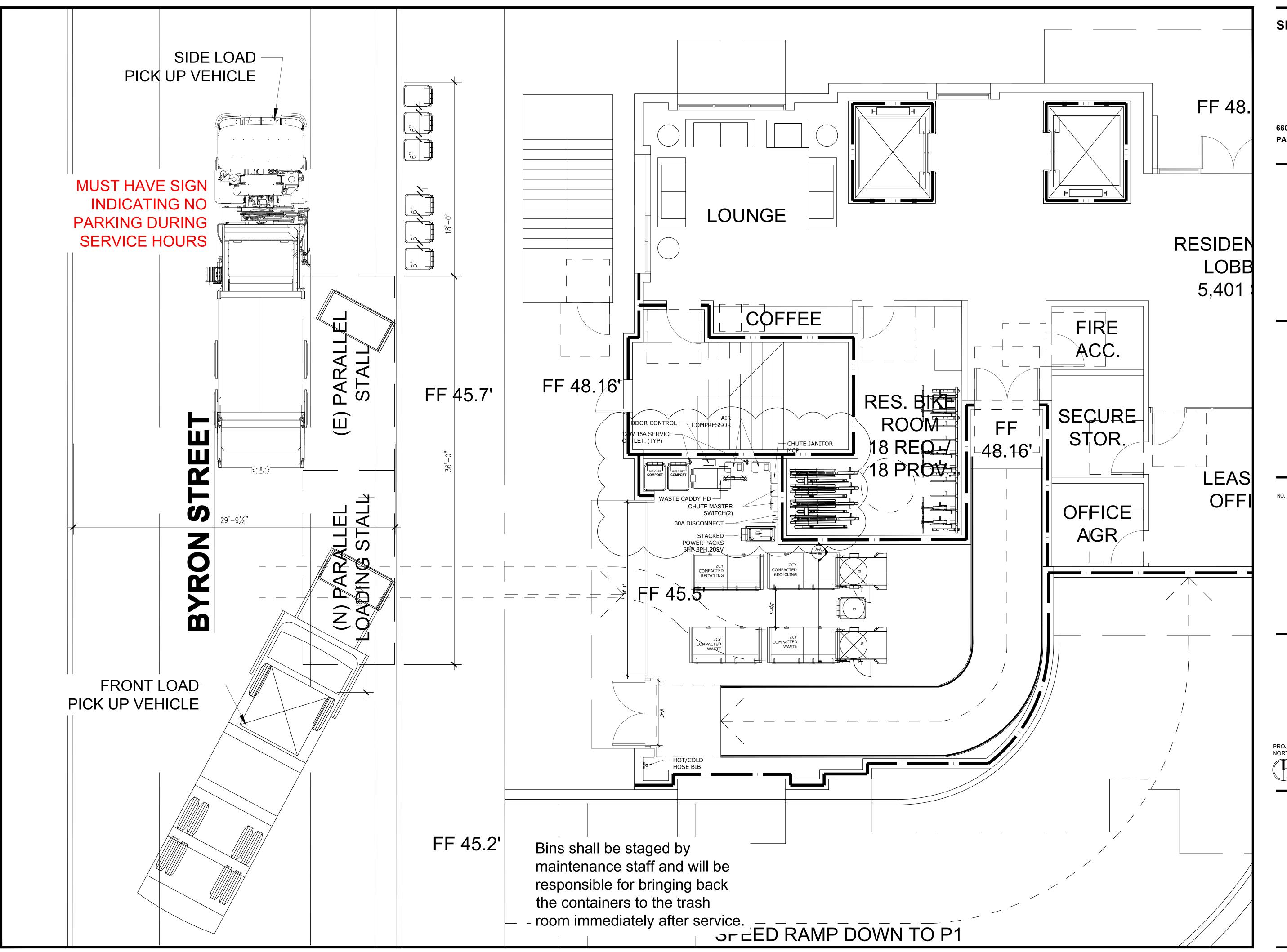
OVERALL SITE PLAN LEVEL 1

PROJ NORTH

0 10'-8"

SHEET NUMBER

TR0.1



660 UNIVERSITY PALO ALTO, CA 94301





AMERICAN TRASH MANAGEMENT 1900 POWELL STREET, SUITE 220 EMERYVILLE, CALIFORNIA 94608 P: 415.292.5400 F: 415.292.5410 CONSULTINGPROJECTS@TRASHMANAGE.COM

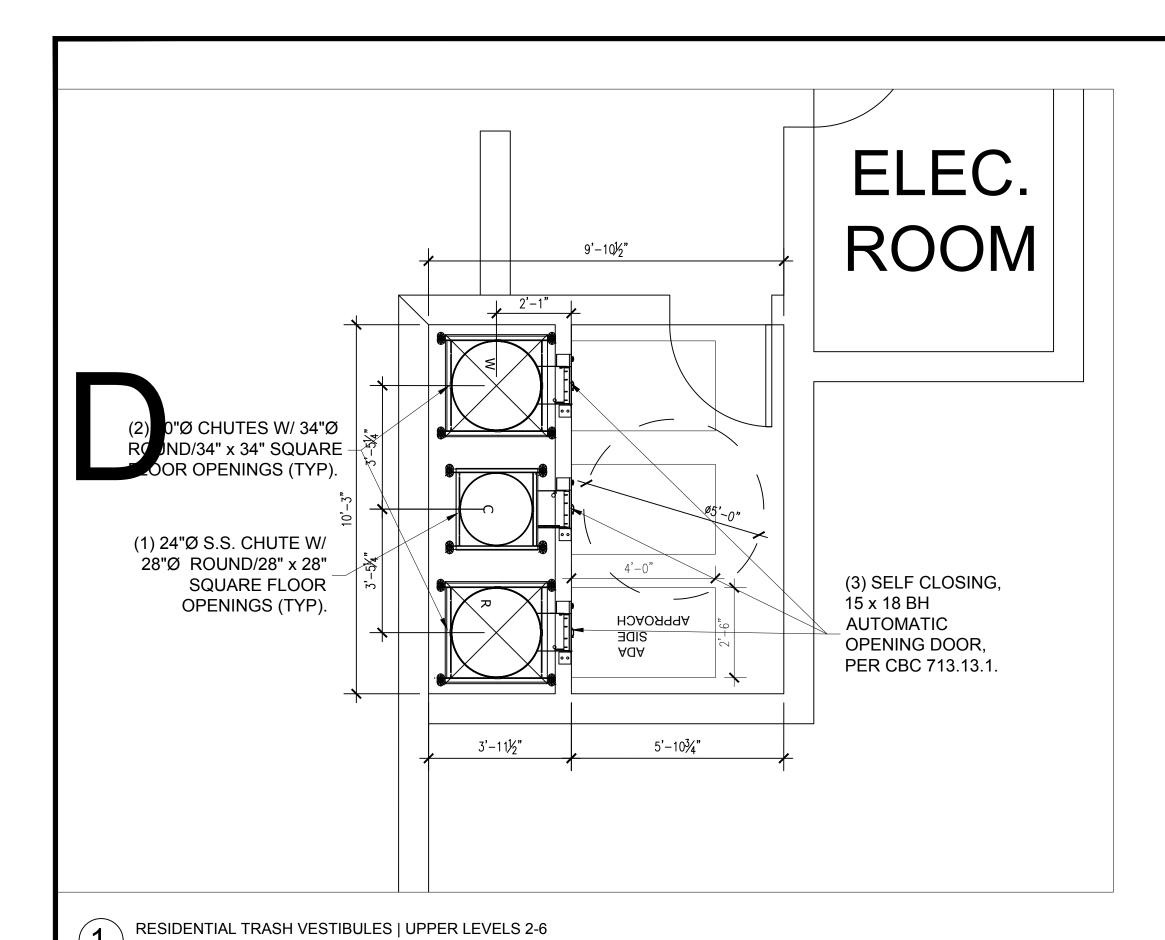
| | | ISSUES AND REVISIONS |
|----|----------|-------------------------|
| Ю. | DATE | DESCRIPTION |
| | 12.01.21 | PLANNING SUBMITTAL |
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| | 12.21.23 | PLANNING RESUBMITTAL #6 |
| | 02.07.24 | PLANNING RESUBMITTAL #7 |
| | 09.18.24 | PLANNING RESUBMITTAL #8 |
| | 06.20.25 | PLANNING RESUBMITTAL #1 |
| | | |
| | | |
| | | PROJECT NUMBER 21003 |
| | | 21003 |
| | | |

SHEET TITLE
STAGING & BIN PATH

PROJ NORTH

0 4'-0" 8'-0"

TR0.2



3/8" = 1'-0"

TRASH COLLECTION AND CHUTE TERMINATION ROOMS | GROUND LEVEL 1/4" = 1'-0"

Trash Room Mechanical Ventilation Requirement

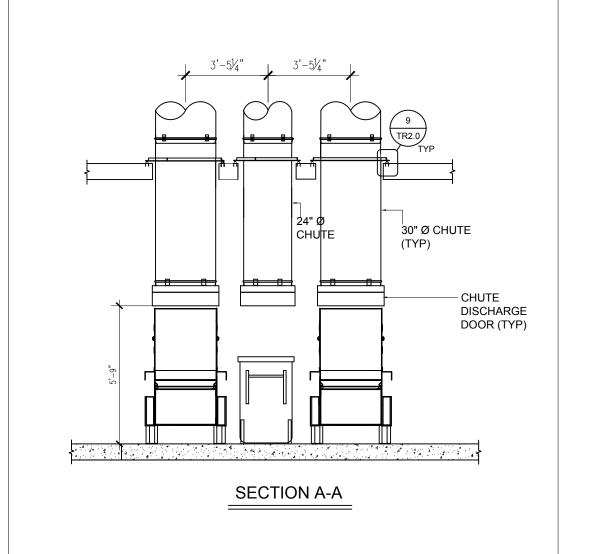
997SF = 1000 CFM per CBC. Size for min. Duct = 1000 CFM

1000CFM = 22x8, 16x10, 14x12 rectangle or14"Ø round

To be confirmed by MEP

Note: Must be its own 2HR-rated(minimum) shaft via walls or 3M duct wrap.

1 1 10./0 SECURE STOR. 15A SERVICE LET. (TYP) CHUTE JANITOR CHUTE MASTER OFFICE-30A DISCONNECT AGR STACKED POWER PACKS 5HP3PH208V



| PROJECTED RESIDENTIAL TRASH COLLECTION SCHEDULE / WK | | | | | | | |
|--|---|---|---|---|---|---|----|
| SERVICE | М | Т | W | Т | F | S | SU |
| COMPACT WASTE (2CY) | 1 | | | | 1 | | |
| COMPACT RECYCLE (2CY) | 1 | | | | 1 | | |
| COMPOST (64G) | 2 | | | | 2 | | |
| TOTAL | 4 | | | | 4 | | |

| PROJECTED RETAIL OFFICE TRASH SCHEDULE / WK | | | | | | | |
|---|---|---|---|---|---|---|----|
| SERVICE | М | Т | W | Т | F | S | SU |
| LOOSE WASTE (64G) | 1 | | | | | | |
| LOOSE RECYCLE (64G) | 1 | | | | | | |
| COMPOST (64G) | 1 | | | | | | |
| TOTAL | 3 | | | | | | |

SHEET NOTES:

RESIDENTIAL TRASH TERMINATION ROOM

- 1. TRASH COLLECTION ROOM IS PART OF 2HR FIRE-RATED TRASH CHUTE SHAFT -RESTRICTED ACCESS.
- 2. FLOOR SHALL BE FINISHED WITH WATERPROOF COATING. FLOOR TO HAVE MINIMAL SLOPE (1° MAX) AND FLOOR DRAIN. FLOOR LEVEL UNDER COMPACTOR.
- 3. WALLS SHALL BE FINISHED WITH WASHABLE WATERPROOF SURFACE SUCH AS FRP OR HIGH-GLOSS ENAMEL PAINT, 8'-0" AFF.
- 4. INSTALL WALL PROTECTION: 12"Hx6"W CONCRETE CURB AT BASE OF ALL NON-CONCRETE WALLS. DO NOT INSTALL THE CURB AROUND THE COMPACTORS OR POWER PACKS.
- 5. 13'-1" ROLL UP DOOR AND 3'-0" FIRE EXIT DOOR.
- 6. ROOM SHALL BE MECHANICALLY VENTILATED WITH (1) CFM/FT PER 2021 IBC. 7. (2) 30"Ø GRAVITY CHUTES WITH COMPACTOR FOR WASTE & RECYCLING. PROVIDE 2CY FL COMPACTOR CONTAINERS FOR WASTE & RECYCLING. (1) 24"Ø 304 STAINLESS STEEL GRAVITY CHUTE FOR COMPOST. PROVIDE 96G CARTS FOR FOR COMPOST. CHUTES SHALL TERMINATE AT 5'-9" AFF.
- 8. (2) PP: COMPACTOR POWER PACK SHALL BE FLOOR-MOUNTED. (1) 5HP 3-PHASE, 208V/230V/460V. 30A/30A/15A DISCONNECT 60" AFF. WIRE SIZE TO BE DETERMINED BASED ON DISTANCE AND PROVIDED BUILDING POWER. TO BE CONFIRMED WITH
- 9. (2) CHUTE MASTER SWITCH SHALL BE WALL-MOUNTED 60" AFF. MUST ALLOW LOCK DOWN OF CHUTE INTAKES FOR EXCHANGING CONTAINERS AND WASHING CHUTES. REQUIRES 120V 15A DEDICATED SERVICE.
- 10. (1) MCP: CHUTE MASTER CONTROL PANEL SHALL BE WALL-MOUNTED 60" AFF. MUST ALLOW LOCK DOWN OF CHUTE INTAKES/DIVERTER/CHUTE JANITOR FOR EXCHANGING CONTAINERS AND WASHING CHUTES. REQUIRES 120V 15A DEDICATED
- 11. (2) AIR COMPRESSOR (OIL LESS) 4610AC WITH AUTOMATIC TANK DRAIN VALVE. 1HP, 2HP PEAK, TWIN TANK CAPACITY 4.6 GALLONS, VOLTAGE @ 60 HZ 110 VOLTS, CURRENT 8.5 AMPS TO POWER THE CHUTE INTAKE DOORS.
- 12. OC: ODOR CONTROL UNIT SHALL BE WALL-MOUNTED 60" AFF. REQUIRES 120V 15A SERVICE OUTLET 60" AFF.
- 13. HB: HOT AND COLD HOSE BIB SHALL BE WALL-MOUNTED 60" AFF.
- 14. CHUTE DISCHARGE DOOR: TYPE-A, HORIZONTAL ROLLING STEEL DOOR, HELD OPEN BY 165° F FUSIBLE LINK.

15. (1) UNDEDICATED 120V 15A SERVICE OUTLET REQUIRED FOR STAFF MAINTENANCE PURPOSE.

CHUTE INTAKE VESTIBULES: 16. CHUTE INTAKE VESTIBULES SHALL BE 2HR FIRE-RATED (NFPA-82 6.2.5.1.1) WITH 1.5HR FIRE-RATED DOOR(S) (NFPA-82 6.2.3.1.3); 5'-0" MIN REQUIRED PER ADA STANDARDS - RESIDENTIAL ACCESS. PROVIDE (2) SELF CLOSING, 15x18 BOTTOM HINGED, ELECTRICALLY INTERLOCKED, AUTOMATIC OPENING INTAKE DOORS TO

- DISPOSE TRASH AND RECYCLING INTO COMPACTORS PER IBC 713.13.1. POWER TO INTAKE DOORS SUPPLIED BY MCP. SEE DETAIL 1TR2.0. 17. CHUTE SHAFT SHALL NOT BE ERECTED UNTIL CHUTE HAS BEEN INSTALLED. FOR SOUND PROOFING PURPOSES, DOUBLE STUD-WALLS ARE REQUIRED ADJACENT TO OCCUPIED SPACES. INTERIOR OF SHAFT SHALL BE TAPED TO PREVENT ODOROUS
- AIR LEAKING INTO OCCUPIED SPACES (BY OTHERS). 18. PROVIDE ROUND FLOOR OPENINGS AT CONCRETE FLOORS AND SQUARED FLOOR OPENINGS AT WOOD-FRAME CONSTRUCTION. INSTALL FLOOR SUPPORT FRAME AT EACH FLOOR PENETRATION TO SECURE CHUTE. SEE DETAIL 9/TR2.0 FOR ANCHORING AND MASON ND-A-RED SOUND ISOLATION PAD ASSEMBLY. POUR RINGS WILL VARY BASED ON THICKNESS OF FLOOR SLAB AND SHALL BE PROVIDED BY MANUFACTURER.

GENERAL NOTES:

- 1. ANY DESIGNS OR DESIGN SOLUTIONS PRESENTED IN THIS DRAWING OR SPECIFICATION, WHICH ARE DIRECT OR IMPLIED, INCLUDING NARRATIVES, DRAWINGS, OR DIAGRAMS, ARE HEREBY CLARIFIED AS EXAMPLES AND SHALL NOT BE CONSIDERED COMPLETE DESIGNS OR DESIGNS SUITABLE FOR CONSTRUCTION.
- 2. OMISSIONS FROM DRAWINGS OR SPECIFICATIONS, OR THE INACCURATE DESCRIPTION OF DETAILS OF WORK, WHICH ARE MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR INACCURATELY DESCRIBED DETAILS OF THE WORK. WORK SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND
- DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS. 3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ALL EXISTING FIELD CONDITIONS AND ANY DISCREPANCIES OR INCONSISTENCIES.

SMITH DEVELOPMENT

660 UNIVERSITY **PALO ALTO, CA 94301**





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ISSUES AND REVISIONS

DESCRIPTION 12.01.21 PLANNING SUBMITTAL PLANNING RESUBMITTAL #1 PLANNING RESUBMITTAL #2

PLANNING RESUBMITTAL #3 PLANNING RESUBMITTAL #4 08.28.23

PLANNING RESUBMITTAL #5 PLANNING RESUBMITTAL #6 PLANNING RESUBMITTAL #7

PLANNING RESUBMITTAL #8 06.20.25 PLANNING RESUBMITTAL #10

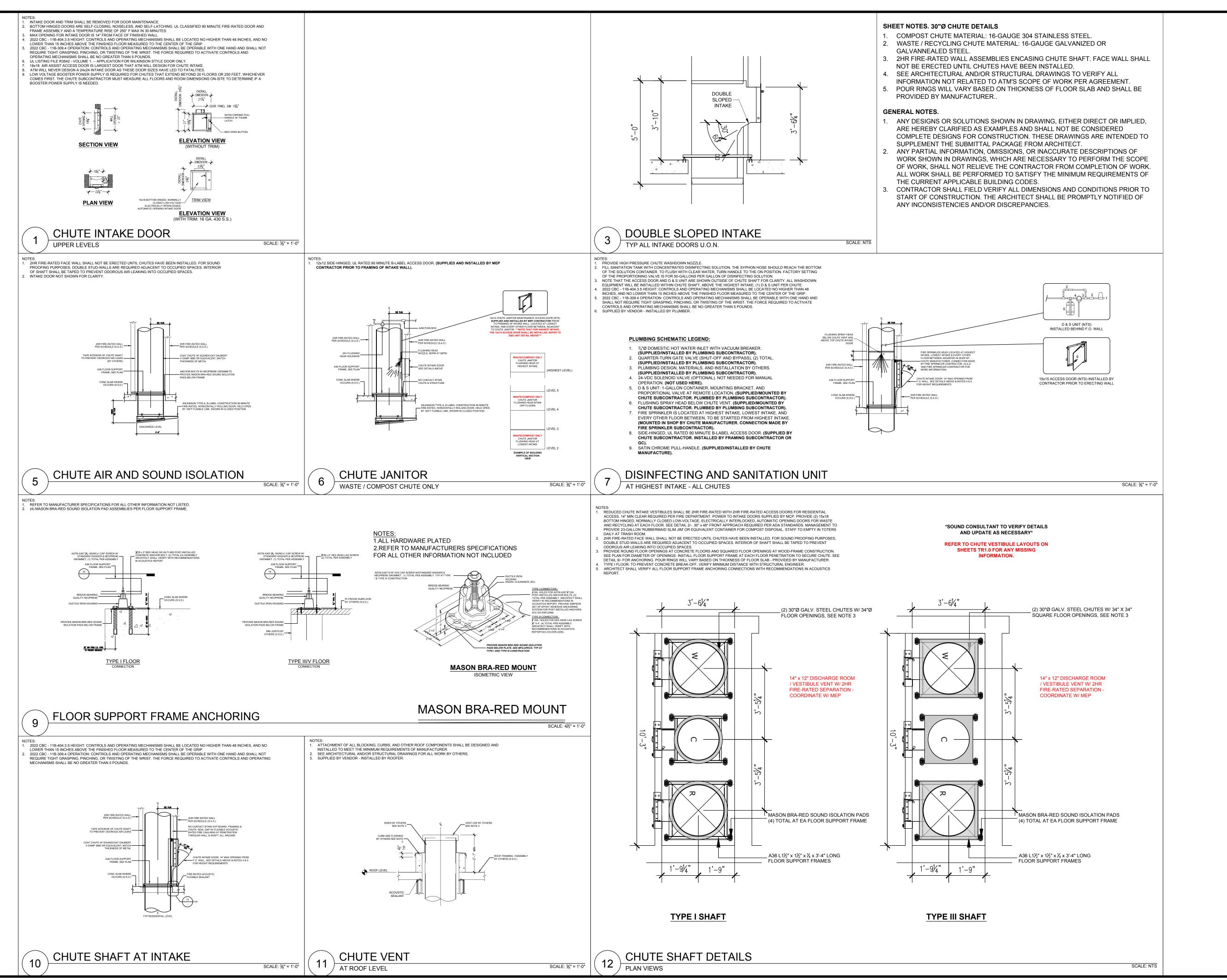
SHEET TITLE

TRASH COLLECTION ROOM DETAILS

3/8" = 1'-0" NORTH

SHEET NUMBER

TR1.0



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DATE DESCRIPTION

12.01.21 PLANNING SUBMITTAL

05.13.22 PLANNING RESUBMITTAL #1

08.15.22 PLANNING RESUBMITTAL #2

11.02.22 PLANNING RESUBMITTAL #3

08.28.23 PLANNING RESUBMITTAL #4

10.31.23 PLANNING RESUBMITTAL #5

12.21.23 PLANNING RESUBMITTAL #6

02.07.24 PLANNING RESUBMITTAL #7

PROJECT NUMBER 21003

PLANNING RESUBMITTAL #8

PLANNING RESUBMITTAL #10

SHEET TITLE

CHUTE DETAILS

SCALE **NTS**

NORTH TN

06.20.25

SHEET NUMBER

TR2.0



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Smith Development 660 University Palto Alto, CA Trash Management Plan

Task: Design a waste and recycling system for a mixed-use project consisting of 70 residential units and 1,976 square feet of usable office space that minimizes costs, staffing requirements, and environmental impacts, while providing convenient trash disposal for the building's residents. Please note the word "trash" when used in this plan covers both waste and recycling.

Waste and Recycling Removal: The City of Palo Alto has granted GreenWaste of Palo Alto a license to provide residential and commercial Waste and Recycling services to residents and businesses located within the city and county. This license is a de facto exclusive franchise for trash removal for any property located within city limits. GreenWaste provides three types of service: waste, commingled recycling, and compost collection.

The City Council has approved the Recycling and Composting Ordinance. Starting January 1, 2017 businesses generating 2 or more cubic yards of garbage per week will be required to subscribe to recycling and compost services, as well as sort all waste into the appropriate containers. Currently, commercial customers generating 8 or more cubic yards of garbage per week, multifamily buildings, and food service establishments are already composting and recycling under the Ordinance.

Palo Alto Municipal Code 5.20.030 (b) states that "all persons shall separate their refuse according to its characterization as solid waste, compostable materials or recyclable materials."

Additionally, Palo Alto has a noise ordinance, 9.10.030 Residential Property Noise Limits that states (a) No person shall produce, suffer or allow to be produced by any machine, animal device, or any combination of same, on residential property, a noise level more than six dB above the local ambient at any point outside of the property plane.

(b) No person shall produce, suffer, or allow to be produced by any machine, animal, or device, or any combination of same, on multi-family residential property, a noise level more than six dB above the local ambient three feet from any wall, floor, or ceiling inside any dwelling unit on the same property, when the windows and doors of the dwelling unit are closed, except within the dwelling unit in which the noise source or sources may be located.

(Ord. 4634 § 2 (part), 2000)

NOTE: While Palo Alto has this noise ordinance given the data we have on trash truck noise, every location in the city with trash collection violates this rule.

State and Local Recycling Mandates: Statewide the passage of AB341 (July 1st, 2012) and subsequent AB1826 & SB 1383 required all businesses that have more than 5 residential units or generate more than 4 cubic yards of municipal solid waste to separate recyclable and compostable materials from the waste stream. This law directs local jurisdictions to implement recycling and composting regulations and programs.

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Projected Residential Waste and Recycling Levels: The following metrics were used to project residential waste and recycling levels:

Residential Waste: 0.16 Cubic Yard (32 gallon) per week/unit. NOTE: This is the equivalent of 2.5 large kitchen garbage cans per unit week (3 - 13 gallon bags).

Residential Recycling: 0.16 Cubic Yard (32 gallon) per week/unit. NOTE: This is the equivalent of almost 2 large kitchen garbage cans per unit week (2 - 13 gallon bags).

Residential Compost: 0.012 Cubic Yard (2.4 gallon) per week/unit. NOTE: This is the equivalent of small compost pail per unit week.

Residential LOOSE Trash Volume Projections. See detailed analysis on page 20.

| Residenti | ai LOOSE Tras | n volume Project | tions. See detaile | ed analysis on pa | age 20. | |
|-----------|--|---|---|--|--|--|
| Units | Projected Waste Volume CY/ WK | Projected Recycle Volume CY/WK | Projected Compost Volume CY/WK | Total # of Loose 3CY Waste Bins/ WK | Total # of Loose 3CY Recycle Bins/ WK | Total # of Loose 96G Compost Carts/WK |
| 70 | 11.2 | 11.2 | 0.8 | 4 | 4 | 3 |

Residential COMPACTED Trash Volume Projections. See detailed analysis on page 20.

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|-------------|--|---|---|---|---|--|
| Units | Projected Waste Volume CY/ WK | Projected Recycle Volume CY/WK | Projected Compost Volume CY/WK | Total # of Compacted 2CY Waste Bins/WK | Total # of Compacted 2CY Recycle Bins/WK | Total # of Loose 96G Compost Carts/WK |
| 70 | 2.8 | 2.8 | 0.8 | 2 | 2 | 3 |

Commercial Office Trash Volume Projections:

Studies cited by CalRecycle estimate office building trash generation at 5.44 lb. of trash per 1000 SF, nearly 70% of which can be diverted. Although past studies had low diversion rates for office buildings, more recent evidence points to large increases in diversion, as firms and their employees become more active recyclers. (This is supported both by outside studies and ATM's data). It is assumed, therefore, that comparable diversion rates for this office space will hold.

Using these metrics, the following levels of waste, recyclables, and compost are projected for the office space in this project.

| | SF | Loose Waste Volume CY/WK | Loose Recycle Volume CY/WK | Loose Compost Volume CY/WK | Total # of Loose 64G Compost Carts/WK | Total # of Loose 64G Compost Carts/WK | Total # of Loose 64G Compost Carts/WK |
|--------|-------|-----------------------------------|-------------------------------------|-------------------------------------|--|--|--|
| Office | 1,976 | 0.2 | 0.3 | 0.1 | 1 | 1 | 1 |

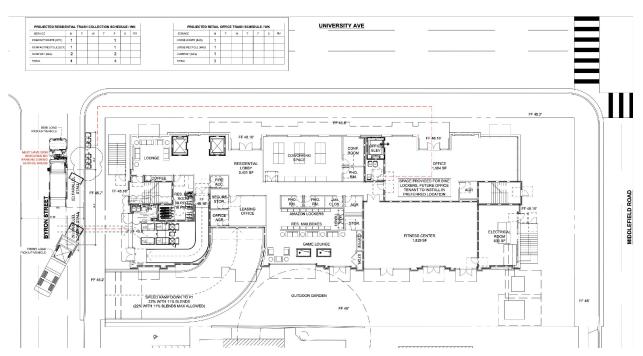
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Site Plan:



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Residential Trash Handling System

To comply with City ordinances, residential trash will be collected in 3 different streams: waste, mixed recyclables (paper, cardboard & containers), and compost.

<u>Chutes.</u> The project will have 2 - 30" diameter trash chutes with 15x18 intake doors in each trash chute core: one for waste, and the other for mixed recycling. The chutes shall be made of 16 gauge galvaneal steel. The project will have a 1-24" diameter trash chute with 15x18 intake doors in each trash chute core for compost. The chute shall be made of 304 stainless steel. All materials will be collected at the ground level of the building.

Increasing the chute size for waste and recycling to 30" above the 24" minimum required by CBC will slightly increase the chute system cost but it will reduce the possibility of chute jams due to large objects (e.g., super size pizza, Amazon, and Costco boxes) being thrown down the chute. This will reduce ongoing maintenance costs while increasing tenant convenience.

The waste and recycling chutes should be 16 gauge galvaneal or aluminized steel and be isolated from the building structure using Mason BRA-Read mounts or equivalent. The chute should be coated with a sound-dampening compound (Soundcoat GP-1 or equivalent) equal to the thickness of the metal.

The compost chute must be 304 stainless steel with an automated wash-down system to minimize the problem of chute collection of compost.

NOTE: We recommend limiting the chute intake doors to 15"x18" to minimize residents putting large, bulky items down the trash chute. Based on input from property managers, tenants have been known to dispose of ironing boards, ficus trees, chairs, and crutches down chutes. The recommended 15"x18" intake door will easily handle large kitchen trash bags while discouraging potentially problematic bulky items.

<u>Compactors.</u> Waste and recycling will be collected in 2CY <u>chute-fed compactors.</u> Compactors will reduce space requirements, staffing needs, and disposal fees, while minimizing truck traffic, thereby lowering the project's operational costs and overall environmental impact. All compactor bins will have locks on the lids and other openings to reduce access by vagrants. We recommend compactor bins be moved using a Waste Caddy.

Example of savings from compactors:

Note: Analysis for waste stream.

| Service | Compaction Ratio | Monthly Fee |
|---|------------------|-------------|
| (1) 3-CY loose bin 4 times per week | N/A | \$1,864.39 |
| (1) 2-CY compacted bin 2 times per week | 4:1 | \$1,269.56 |

Lower Waste Disposal costs. Front-load compaction is less expensive than front-load loose waste services. (See cost-benefit analysis on page 20).

Compaction and Recyclables. The City of Palo Alto does not charge for loose or compacted recycling. Even though there will be no trash bill savings with compacted recycling we still

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Project Summary:

1. Local ordinance requires the collection of trash in three separate streams: waste, mixed recycling, and compost.

- 2. A three-chute design as designed will be used for the residential trash collection room. The compost chute should be 24" in diameter and must be 304 stainless steel with an automated wash-down system to minimize the problem of chute collection of compost. The waste and recycling chutes can be galvaneal steel, but we recommend increasing the diameter of the waste and recycling chute to 30". CBC minimum required 24" chutes have a higher probability of chute jams due to large objects (super-size pizza boxes, Costco boxes, ironing boards, crutches, etc.) being thrown down the chute.
- 3. Due to the projected residential trash volumes, waste and recycling will be collected in chute-fed compactors with 2CY bins. Compactors will reduce the number of trash bins the project will need to store, reduce the development's trash bill, and reduce the number of trash truck trips to the property. Compost will be collected in 64G Toter carts under the chute.
- 4. Most commercial tenants operate with NNN leases and cover all of their own utilities including trash disposal. We recommend that commercial tenants subscribe to waste, recycling and compost service individually. Tenants should not be allowed to access the residential chute discharge trash rooms for safety reasons as well as to prevent passing along commercial trash costs onto the residential portion of the building. Commercial retail tenants will be responsible for handling their own trash. A dedicated trash room has been designed for commercial trash collection.
- 5. Staging will occur on Byron St. Front-load bins require 25' vertical clearance which is typically used in a project of this size. Bins and carts must be moved by staff to this location so the trash bins to be emptied by Green Waste with minimal impact on the residents and the project's neighbors.
- Add 1 CFM/SF mechanical ventilation per CBC, floor drain, hose bib, and odor control to the trash collection rooms.
- 7. ATM recommends taking measures to protect the walls where trash bins are stored and transported. In the trash room, we recommend a 12"H x 6"W concrete curb at the base of all non-concrete walls or 1/8" thick diamond tread backing 6'-0" AFF. Additionally, the trash room walls shall be finished with washable waterproof surface such as FRP or high-gloss enamel paint 8'-0" AFF. For corridors in the bin moving path of travel we recommend diamond tread 6'-0" AFF. Note that all wall protection is to be provided by others, even for projects where ATM provides the trash handling equipment.

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recommend compaction for this project due to the automated handling of materials, its lower space requirements, and lower environmental impact (noise and litter) even though there is less savings.

Lower labor costs: A 3-cubic yard loose waste bin serviced Monday through Sunday must be moved from the trash chute to the trash service location 4x per week. Comparable compacted service a single 2-cubic yard bin picked up 2x per week. That represents 50% fewer times to move the bin from the trash area to the street for pickup. (See cost-benefit analysis on page 20).

<u>Compost.</u> Compost will be collected in loose 64-gallon carts under the chute.

NOTE: The compostable waste chute system creates unique sanitation issues, so a 304 stainless steel chute is recommended (to prevent corrosion), as is a special wash-down system to minimize the sanitation and odor problems that will arise from loose food waste being disposed down the chute.

ATM does not normally recommend collecting apartment compostable materials using gravity chutes due to sanitation issues, collection issues, the corrosive properties of the material, and the odorous nature of putrefying household food waste, which is the primary component of organic waste from apartments. The compostable materials will adhere to the sides of the chutes and require frequent chute washdowns. This will increase the project's water usage and sewage loads. The acidic nature of fermenting compost will cause the chute to rust prematurely unless they are made of 304 stainless steel. It is important that proper sanitation protocols are followed since the compostable material that will adhere to the chute wall is an excellent medium to grow fruit flies, maggots, molds, fungus, yeast, and bacteria which can cause insect infestations, allergic reactions, and malodors.

<u>Cardboard.</u> Due to the number of units, this project is projected to generate ~245 cardboard boxes per day. While diverting cardboard will not result in any direct disposal savings at this time, it can help reduce the number of large boxes creating chute jams. We recommend providing a space adjacent to the trash rooms for residents to place their large, flattened cardboard boxes. These boxes will need to be moved by building staff daily into a spare recycling bin.

Odor Control. To mitigate malodors in the trash room(s), a four-pronged approach is recommended including ventilation, sanitation, isolation of odorous items such as rancid cooking oil, and installing a deodorizer system. ATM rarely recommends a chilled/refrigerated trash room. Conditioned trash rooms have high upfront construction costs and ongoing operational costs while not stopping bad odors. We have all experienced something rotting in our refrigerators and the resulting horrible odors if not properly contained. A cooled space will retard but not stop decomposition and will have minimal impacts on odorous trash. Odors will still happen and can only be controlled by following the implementation of the four steps below. We only consider the installation of conditioned trash rooms in areas with high temperatures and humidity such as the tropics where organic items will rapidly decompose causing bad odors.

- VENTILATION: Mechanical Exhaust of Trash Collection Room. The minimal mechanical ventilation required under US building codes rate is 1 CFM/SF, however, ATM recommends being able to increase this rate if needed, especially in areas with warmer humid climates. Exhaust should vent through the roof. High air floor removes odorous compounds and dilutes them so they are less noticeable.
- 2. SANITATION: Cleaning the Trash Chute. Almost all trash chutes are equipped with a Chute Wash Down and Detergent Dispenser Unit located on the top floor behind an access door. This unit

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ISSUES AND REVISIONS

no. date description

12.01.21 PLANNING SUBMITTAL

05.13.22 PLANNING RESUBMITTAL #1

08.15.22 PLANNING RESUBMITTAL #2
11.02.22 PLANNING RESUBMITTAL #3
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12.21.23 PLANNING RESUBMITTAL #6

02.07.24 PLANNING RESUBMITTAL #7
09.18.24 PLANNING RESUBMITTAL #8
06.20.25 PLANNING RESUBMITTAL #10

PROJECT NUMBER 21003

SHEET TITLE

TRASH MANAGEMENT PLAN

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should be operated on a set interval basis depending on the site conditions for the amount of time it takes for the wash down water to flow into the trash room for several minutes. We recommend using a biodegradable detergent such as Dawn diluted to 50% in the detergent dispenser to remove grease and oils in the chute. This will also have the benefit of cleaning grease build up in the trash room floor drain. Trash chutes that are designed for disposal of a high level of food waste often also have a "Chute Janitor" built-in wash down system. These should be operated on a regular basis based on the site specific specific conditions and should be run through their complete preprogrammed normal Rinse-Wash-Rinse cycle. Even with the presence of the Chute Wash Down and Chute Janitor systems, all trash chutes should be pressure washed at least once a year or more frequently in warmer climates. <u>Cleaning the Trash Room.</u> Trash rooms should be swept clean of debris and pressure wash down on a regular basis based on the site specific conditions. Trash room wash down service should include the floors, walls and ceilings as required. Cleaning the Trash Equipment. The trash compactor and containers should be pressure washed on the same schedule as the trash room and chute. Cleaning should include all trash equipment such as containers, compactors or compactor receiver containers when the containers are empty. If hauler-provided containers become especially dirty or rusted out, they should be replaced or cleaned by the hauler.

- 3. ISOLATION: Trash should be collected in enclosed containers or containers with lids. If roll-off compactors are used, self-contained units are recommended for any wet waste to avoid leaks. Used cooking oil should not be moved or stored in open containers. We recommend used cooking oil be collected in oil tanks stored in secure back-of-house areas. Lastly, a properly sealed trash room with roll-up doors will help contain odors and deter pests such as rodents and insects.
- 4. DEODORIZER: Industrial Odor Control Systems. Odor control systems can be helpful in controlling odors, but most have limited effectiveness or create other problems. Popular low-cost systems that spray a masking agent into the air, only serve to hide odors in the trash room and not eliminate them. Ozone generators are more effective, but the odor-destroying product they create — ozone — can have a deleterious effect on human health and can also destroy compactor hoses and seals. One odor control system that avoids these problems is the Piian Mini Vaporizer. It creates a very fine 50micron mist that bonds with — and ultimately destroys — odor causing molecules. And unlike ozone, the entirely natural blend of plant extracts, essential oils, and emulsifiers is safe and does not damage equipment.

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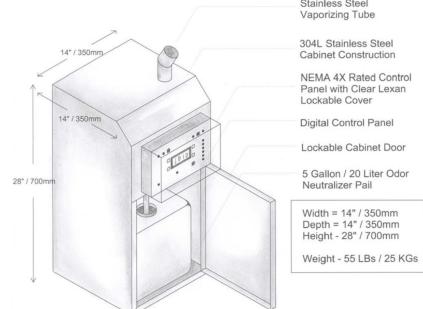
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Piian Mini Vaporizer System is a small scale Vaporizer type odor control system for control of odors emitting from garbage compactors, and garbage dumpsters.

PIIAN MINI VAPORIZER – ALL NATURAL ODOR NEUTRALIZING SYSTEM

- BASIC INFORMATION • This system vaporizes an all natural odor neutralizer solution into odorous environments.
- Odor neutralizer solution is drawn out of a 5 Gallon pail located inside the lower cabinet. • The odor neutralizer solution is vaporized via a tube on the top of the vaporizer cabinet.
- Once started, the vaporizer system cycles **ON** and **OFF** automatically.
- SYSTEM INSTALLATION AND START-UP
- The vaporizer should be mounted on a wall, bracket or other surface. An optional free standing pedestal (Part # MMFP0001) is
- Mounting tabs are supplied for wall mounting the unit. The mounting tabs are installed backwards on the rear of the unit for shipment, reverse each tab and use anchors to secure the unit to a wall surface. Place a full pail of odor neutralizer solution into the lower cabinet; insert the siphon tube and return tube into the pail of odor
- neutralizer. The odor neutralizer solution is "Ready to Use" strength; no further dilution with water is required. Plug the system into any 115 vAC outlet (or 240 vAC if equipped). The control panel will beep to indicate power is on. • The Piian Mini Vaporizer may be installed to discharge into the open environment around the odor source.
- To convey the vaporized odor neutralizer into a specific location (outside compactors, duct, container, chute etc), run a 1 1/2" diameter flexible hose from the outlet on top of the vaporizer to treatment location. Attach the hose to the vaporizer by pushing one end over the vaporizer's outlet. A duct adapter is available to connect the hose to the side of air ducts / chutes etc.

IMPORTANT: To avoid the "pooling" of liquid inside the tube, support the tube throughout its run. • For trash chutes, open compactors or trash storage areas, the vaporizer may be mounted in close proximity to the odor source.



Vaporizing Tube

304L Stainless Steel **Cabinet Construction** NEMA 4X Rated Control Panel with Clear Lexan Lockable Cover Digital Control Panel Lockable Cabinet Door 5 Gallon / 20 Liter Odor Neutralizer Pail Width = 14" / 350mm Depth = 14" / 350mm

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order to operate the intake door. ADA Standards also limit the maximum operating force required to open an interior door (without specificity to size) to 5 pounds of force. Under CBC 2016 the maximum allowable mounting height of the operating mechanisms (ie door handle, etc.) of an ADA-compliant device is 44". The minimum allowable height is 34". The maximum allowable projection of an ADA-compliant device is 4" off the projection surface of the wall.

The Wilkinson Signature Series and IDC-2000 Recycling Manually operated doors require the person operating the door to push a membrane selector switch (waste, recycling, or compost) grasp the ushaped handle, push down on the thumb latch with a finger, and pull open the door. This type of intake door meets the mounting height, the projection, the twist, and the pinch requirements but it does not meet the pulling force or the grasp requirement.

Lower-quality manual chute intake doors from other manufacturers all use a T-handle or L-handle operating mechanism. These doors fail on 3 counts. They do not meet the pulling force, grasp, and twist requirements. These doors are especially hard to operate for persons with arthritis due to the required simultaneous grasping, twisting, and pulling motion.

The Wilkinson Signature Series and IDC 2000 Pneumatic Assist door meet all the above requirements since it is operated by pushing a palm button which opens the door automatically. The door closes after a set time and latches so it meets all the current fire code requirements. The air assist mechanism is designed to preclude the need to grasp, twist, or pinch the control mechanism in order to operate the intake door. The push button meets the height, projection, and force requirements too. It is conceivable. however, that certain disabled persons will still not be able to operate this type of door. ADA law requires one to accommodate all persons with disabilities.

The supra-majority of all new construction within the US still uses manually operated chute intake doors due to the extra upfront (~ \$900 per floor) and higher maintenance costs of the Pneumatic Assist Chute Intake type of doors. Many building owners have chosen to only install the pneumatic assist doors in facilities with a high senior or disabled population and in order to meet the above ADA requirements make it their policy to provide a staff person to assist any individual with disabilities who need assistance in operating the manually operated door.

Trash chute systems have been designed to meet the fire and life safety found within Building Codes. All trash chute intake doors are required to be behind a rated fire-barrier and any door in these walls is required to be a fire-rated door.

This fire-rated door is required to be self-closing (or automatic-closing upon the detection of smoke), so it has a closer mechanism and positive latch. Because this door is designated as a "fire door", per most codes and accessibility standards (including ANSI A117.1 used for FHA compliance), the door opening force for this door is exempt from typical accessibility requirements (maximum 5 pounds) and allowed to have a minimum opening force allowed by the authority having jurisdiction (typically a maximum of 15 pounds). The opening force for the required fire-rated doors in front of trash chute intake doors routinely exceeds 5 pounds and is more typically in the 14-18 pound range.

Requiring the chute intake door to meet accessibility requirements while allowing the fire-rated door in front of the trash chute intake door to not meet the pull force and grasp requirements is illogical. If an individual with accessibility needs cannot open the fire door in front of the trash chute intake then they will not be able to access the non-compliant chute. Owners should always have a policy in place to provide assistance to any person who can not access the trash chute (with or without automatic opening doors).

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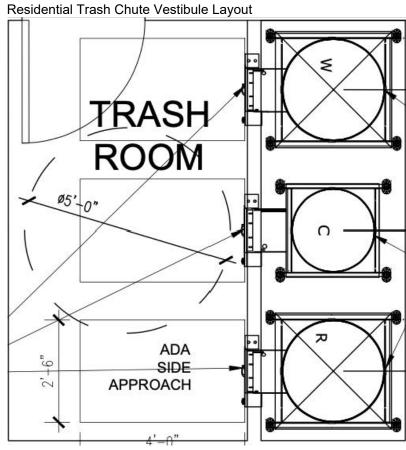
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Residential Trash System Equipment

Below is a summary of the recommended trash system equipment.

| Compacted | Service | | | | | |
|-------------------|----------------|--|--------------------|---------------|-----------------------------------|-----------------------------------|
| Gravity Chutes | Diameter | Chute Material | Compactor Count | Bin Type | # of Bins | Bin Size Cubic Yards |
| 3 | 2-30" 1-24" | 2-16 gauge galvaneal steel 1-304 SS | 2 | Front Load | 2 waste 2 recycle 2 compost | 2CY waste & recycling 64G compost |

-odor control, Waste Caddy for bin moving



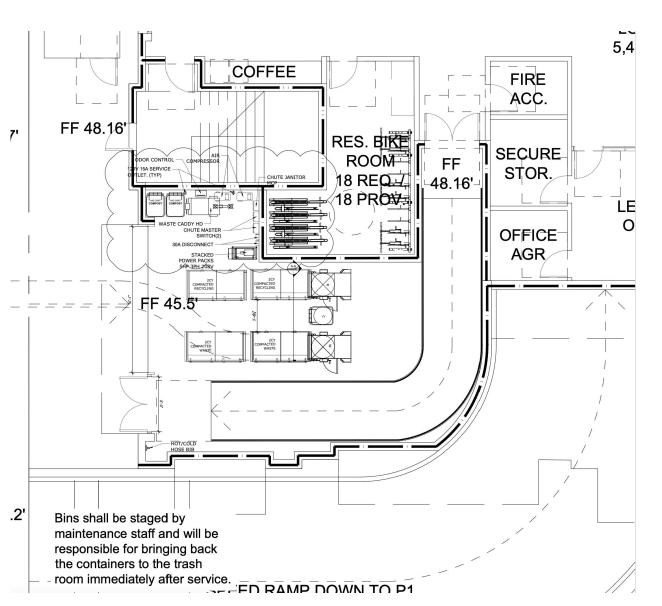
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Residential Chute Termination Room Layout



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ISSUES AND REVISIONS

DESCRIPTION 12.01.21 PLANNING SUBMITTAL PLANNING RESUBMITTAL #1 PLANNING RESUBMITTAL #2 11.02.22 PLANNING RESUBMITTAL #3

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09.18.24 PLANNING RESUBMITTAL #8 PLANNING RESUBMITTAL #10 06.20.25

PROJECT NUMBER

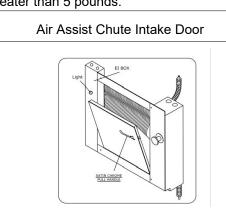
SHEET TITLE TRASH MANAGEMENT PLAN

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Trash Chute Intake Doors

ATM standard is to specify pneumatic (automatic) opening in order to meet all accessibility requirements per 2019 CBC Section 1138A.4.4, which states that: "Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls and operating mechanisms shall be no greater than 5 pounds."



Manual Chute Intake Door CHUTE DOOR DETAIL UL RATED 1 % HR. "B" LABEL

Chute Intake Doors and the Americans with Disabilities Act of 1990 (ADA) This is a summary of the current state as we understand it. This is not intended to be legal advice and should not be relied upon without seeking the advice of an ADA expert and your legal counsel.

Per most building codes and FHA requirements, "common use" building areas and building elements, such as trash rooms and trash chutes are required to be accessible. Specifically, the trash chute door is required to comply with accessibility requirements:

- Clear floor space for a wheelchair at the chute door Chute door hardware within reach range
- Chute door hardware complying with operability requirements.
- The operability requirements mandate that the chute door hardware must not involve any of the following:
 - Two-handed operation (such as depressing a button while turning a door handle) Tight grasping or pinching
 - Twisting of the wrist Force to activate the hardware that exceeds 5.0 pounds.

The majority of manual chute intake chute door installations do not comply with the accessibility requirements. Lower-quality chute doors require grasping, twisting of the wrist, and more than 5 pounds of force to open the chute door. Regardless of what has been installed for the chute door, the chute door is still required by both Code and FHA requirements to comply with accessibility requirements. In the cases where non-compliant chutes have been installed, the building Owner has made a management

decision to handle the accessibility requirement using other means. Residential and other buildings are subject to the progressively revised provisions of Federal and Local ADA laws and regulations. To meet the current ADA Standards as they apply to Gravity Trash Chute Intake Doors, the person using the door must not have to grasp, twist, or pinch the control mechanism in

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Thursday, June 19, 2025



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Emeryville, CA 94608

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Commercial Trash Handling System:

To comply with City ordinances, the project residential trash will be collected in 3 different streams: Waste, Mixed Recyclables (paper, cardboard & containers), and Compost (food & organic materials).

A dedicated office trash room has been designed. Waste and recycling will be deposited by staff into 64-gallon Toter carts. Compost will be also deposited into 64 gallon Toter carts.

Commercial Trash Equipment

| Loose Service | | |
|---------------|-----------------------------------|--------------------------------------|
| Cart Type | # of Carts | Cart Size Gallons |
| Side Load | 1 waste 1 recycle 1 compost | 64G waste & recycling 64G compost |

The commercial tenants should be required to follow the Commercial Trash Rules as defined below:

RECOMMENDED COMMERCIAL TENANT TRASH RULES

AMERICAN

TRASH MANAGEMENT

Compactor Bin Moving Turning Radius

WASTE CADDY 36V -DUMPSTER MOVER

AMERICAN

2 CY WASTE DUMPSTER

- 1. Moving Trash: Require commercial tenants who have any wet trash to move all solid waste and recycling in bags 20 gallons or less. The plastic bags which will make it easy for commercial tenants to put their waste and recycling into the communal trash compactors or bins. The use of bags is required to avoid leaks. Virtually all tenants fall into this category since they regularly throw away old partially full drink cups.
- 2. Cleanup: Tenants will be responsible for keeping the common areas clean. Any sewer blockage will be the responsibility of the tenant. All spills if they do happen must be immediately cleaned up or the property management will fine the tenant and arrange for the clean up at the tenant's expense. No vent hood filters or floor mats will be cleaned on site including the communal trash room.
- 3. Cooking Oil & Fat Disposal: Tenants producing used cooking oil arrange and pay for a service to collect this used oil. Oil must be stored within the tenant space. No oil can be moved in open containers on the property. All spills if they do happen must be immediately cleaned up or the property management will fine the tenant and arrange for the clean up at the tenant's expense. Used cooking oil cannot be stored in the communal trash room (it stinks and when it is communal you get a mess).
- 4. Bulky Items: Disposal of any large bulky items that do not easily fit within the communal trash bins must be removed from the property by the tenant at the tenant's expense. (Exclude all non-standard solid waste disposal). Anything that is not typically disposed of on a regular basis (at least every quarter) must be handled directly by the

MIN. OUTSIDE TURNING

TRAVEL PATH ~3'-6" WIDE

MIN. HALL WIDTH= 5'-11"

TURNING RADIUS WASTE CADDY / CONTAINER

5. <u>Hazardous Materials:</u> Tenants are responsible for arranging and paying for the disposal of all Hazardous Materials as defined by law.

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TRASH MANAGEMENT

Commercial Trash Collection Room Layout

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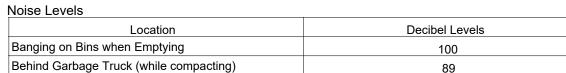
www.trashmanage.com

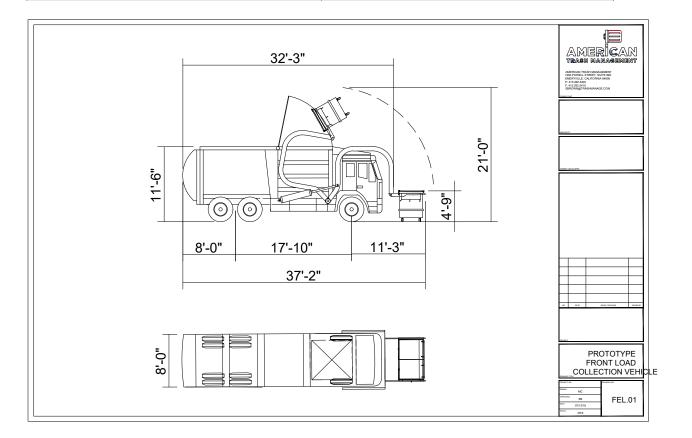
(415) 292-5400

Trash Service Location:

Staging will occur on Byron Street. This will have minimal impact on the operations of the building and the project's neighbors. We recommend all residential compacted bins be moved by building staff using a Waste Caddy to the trash staging area. Commercial carts will also be moved to this location as well by the tenants themselves.

Front-load service front-load bins require 25' Clear height (no lights, sprinklers, or other items within the





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TRASH MANAGEMENT Toter Carts for Office Trash and Compost

AMERICAN



Pump: 6 GPM

Cylinders: 2 - 3" diameter with 2" rod

UNIVERSAL / NESTABLE Part Number: Description 96 GALLON EVR® II CART Size (l x w x h) Load Rating 335 LBS/151.9 KG





48 GALLON EVR® II

18 GALLON EVR® II CART

Part Number

Size (| x w x h)

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STANDARD COLORS

UPSCALE GRANITE COLORS AVAILABLE

32 GALLON EVR® UNIVERSAL Part Number: Description 32 GALLON EVR® CART Load Rating 112 LBS/50.8 KG Wheel Diameter

32 gallon is original EVR design and does not nest fully assembled.





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SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301



ISSUES AND REVISIONS

NO. DATE DESCRIPTION 12.01.21 PLANNING SUBMITTAL

PLANNING RESUBMITTAL #1

PLANNING RESUBMITTAL #2 11.02.22 PLANNING RESUBMITTAL #3

08.28.23 PLANNING RESUBMITTAL #4 PLANNING RESUBMITTAL #5

12.21.23 PLANNING RESUBMITTAL #6 02.07.24 PLANNING RESUBMITTAL #7

09.18.24 PLANNING RESUBMITTAL #8 PLANNING RESUBMITTAL #10 06.20.25

PROJECT NUMBER

SHEET TITLE

TRASH MANAGEMENT PLAN

SCALE

N.T.S.

SHEET NUMBER

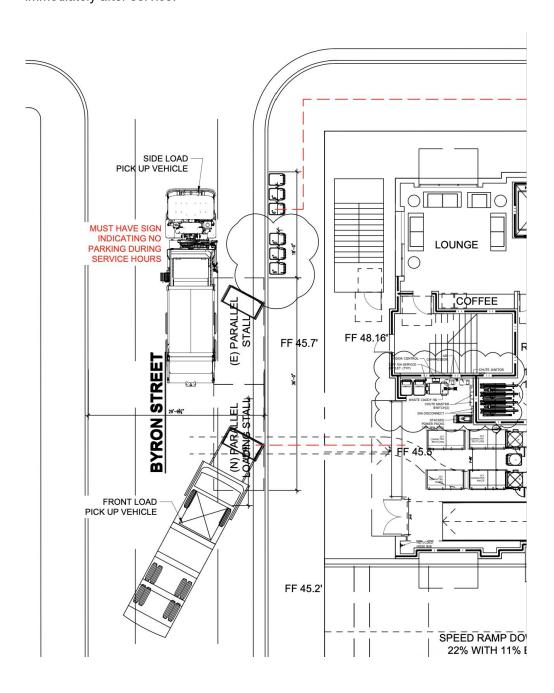
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Staging Area

Please note that maintenance staff will stage the residential bins, and commercial staff will bring their carts to the staging area. Both segments will bring back the containers to the trash room immediately after service.



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TRASH MANAGEMENT

Thursday, June 19, 2025

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Volume Projections and Analysis Below is a comparative analysis of the disposal costs and labor costs of handling waste and recycling in loose bins or compacted bins. Please note that the projections below are estimates derived from actual audits of comparable multifamily complexes in the San Francisco Bay area. They are not guaranteed. They are to be used for planning purposes only and may be higher or lower than projected.

| TOTAL RESIDENTIAL W. | ASTE AND RECYCLING A | NALYSIS | | |
|----------------------|---|-----------------------|--|---------------|
| ASSUMPTIONS: | UNITS: | 70 | | GALLONS |
| | Volume Waste: Volume Recycling: Volume Compost: | 0.16 0.16 0.012 | cubic yard/week/unit cubic yard/week/unit cubic yard/week/unit | 32 32 2 |
| | Compaction Ratio | 4 | to 1 | |

Staff Labor Rate \$21.00 per hour - 1 person 0.25 hr to move to unloading area & back Time move bins hr to go to each bin rake or rotate Rake-Rotate bins # of Trash Rooms cubic yard front load bins Compacted Waste Service Compacted Recycle Service cubic yard front load bins cubic yard front load bins Loose Waste Service cubic yard front load bins Loose Recycling Service Loose Compost Service 0.32 cubic yard carts (64 G Toter Carts)

63

| | ' | 0.02 | , | ` |
|---------------------------------|--------------------|--------------|-------------|---|
| COST BENEFIT CALCULATIONS: | PROJECTED Loose | PROJECTED PR | | |
| SERVICE-Recycling | Loose | Loose | Compacted | |
| Loose Waste Volume - CY | 11.2 | | | |
| Compacted Waste Volume - CY | | 2.8 | 2.8 | |
| Loose Recycling Volume - CY | 11.2 | 11.2 | | |
| Compacted Recycling Volume - CY | | | 2.8 | |
| Loose Compost Volume - CY | 0.8 | 8.0 | | |
| Compacted Compost Volume - CY | | | 0.2 | |
| Waste Bins/week | 4 | 2 | 2 | |
| Recycling Bins/week | 4 | 4 | 2 | |
| Compost Bins/week | 3 | 3 | 1 | |
| Containers/week/trash room | 11 | 9 | 5 | |
| SYSTEM CAPITAL COST | \$0.00 | \$37,545.00 | \$75,090.00 | |
| WASTE COST/MONTH | \$1,864.39 | \$1,269.56 | \$1,269.56 | |
| RECYCLING COST/MONTH | \$0.00 | \$0.00 | \$0.00 | |
| COMPOST COST/MONTH | \$203.26 | \$203.26 | \$203.26 | |
| TRASH COST/MONTH | \$2,067.65 | \$1,472.82 | \$1,472.82 | |
| COMPACTION SAVINGS/MONTH | \$0.00 | \$594.83 | \$594.83 | |
| STAFF LABOR COST/MONTH | \$13.69 | \$11.20 | \$6.22 | |
| STAFF SAVINGS/MONTH | \$0.00 | \$2.49 | \$7.47 | |
| NET MONTHLY TRASH COSTS \$2 | 2,081.34 | \$1,484.02 | \$1,479.04 | |
| Monthly Trash Cost per Unit | \$13.008.40 | \$9.275.15 | \$9.244.03 | |

RESIDENTIAL CARDBOARD ANALYSIS

PAYBACK-MONTHS

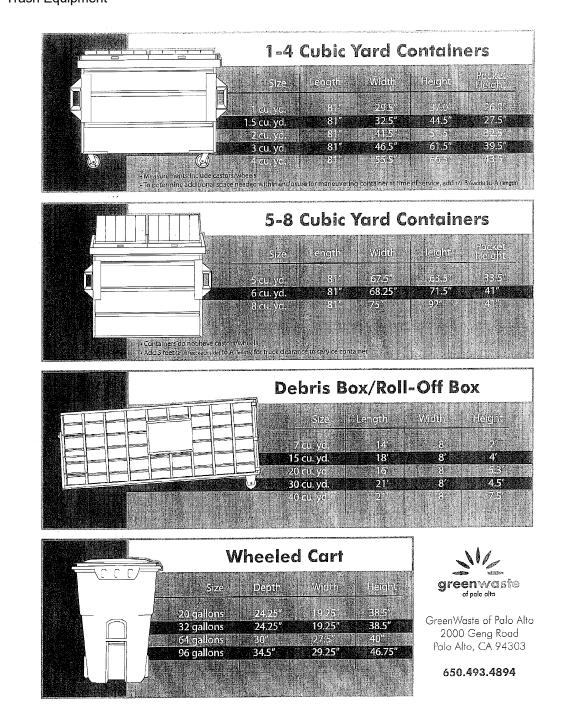
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125



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Trash Equipment



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TRASH MANAGEMENT OFFICE WASTE AND RECYCLING SYSTEM ANALYSIS Square Feet 1,976 Lbs/day per 1000 SF 5.44 30% % waste % recycling 50% % compost waste lb/CY recycling lb/CY compost lb/CY Compaction Ratio Loose Waste Service

AMERICAN

cubic yard carts (64 G Toter Carts) 0.32 0.32 cubic yard carts (64 G Toter Carts) cubic yard carts (64 G Toter Carts)

Loose Recycling Service Loose Compost Service 0.32 COST BENEFIT CALCULATIONS:PROJECTED PROJECTED Compacted SERVICE-Waste Loose SERVICE-Recycling Compacted Loose Loose Waste Volume - CY 0.2 Compacted Waste Volume - CY Loose Recycling Volume - CY 0.3 Compacted Recycling Volume - CY 0.1 Loose Compost Volume - CY Compacted Compost Volume - CY 0.0 Waste Bins/week Recycling Bins/week Compost Bins/week Containers/week/trash room

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Thursday, June 19, 2025



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Thursday, June 19, 2025

Sample Residential Bin Moving Schedule. (Actual schedule to be determined by building management and hauler)

| Residential - Comp | acted Serv | rice | | 1 | | | |
|--------------------------|------------|-----------|----------|----------|--------|----------|--------|
| | Monday | Tuesday W | ednesday | Thursday | Friday | Saturday | Sunday |
| Compacted 2CY Waste | 1 | | | | 1 | | |
| Compacted 2CY Recycle | 1 | | | | 1 | | |
| Compost 64G | 2 | | | | 2 | | |
| Total | 4 | 0 | 0 | 0 | 4 | 0 | 0 |

| Commercial Of | | | nesday Thursd | ay | Friday | Saturday S | unday |
|----------------------|---|---|---------------|----|--------|------------|-------|
| 64G Loose Waste | 1 | • | | | , | | |
| 64G Loose Recycle | 1 | | | | | | |
| 64G Loose Compost | 1 | | | | | | |
| Total | 3 | 0 | 0 | 0 | 0 | 0 | 0 |

TRASH SYSTEM SPECIFICATIONS: Provided separately.

- 1. Section 14 91 00 Trash Chutes & Intake Doors
- 2. Section 44 31 00 Odor Control3. Section 44 53 62 Waste & Recycling Compactors
- 4. Section 41 63 23 Waste Caddy for Bin Moving

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| City: | Palo Alto | Key Charge \$ | 15.00 | |
|--|------------------------------------|----------------------|----------------------|--------------------------|
| Franchise: | GreenWaste | ,, | | subject to change |
| Multi-Family/Commercial Loose | Front Load Waste | Rates: | | |
| Frequency/Size: x/wk-CY Size | 2 | 3 | 4 | 64G Cart |
| 1 x Week | \$309.02 | T 1 | \$581.41 | \$73.25 |
| 2 x Week | \$638.63 | 1 1 | \$1,174.26 | \$163.66 |
| 3 x Week | \$970.54 | | \$1,825.48 | \$254.08 |
| 4 x Week | \$1,301.30 | 1 | \$2,448.09 | \$344.49 |
| 5 x Week | \$1,630.91 | \$2,341.65 | \$3,068.40 | \$434.91 |
| 6 x Week | \$1,961.67 | \$2,817.76 | \$3,689.87 | \$525.33 |
| Multi-Family/Commercial Compa Frequency/Size: x/wk-CY Size 1 | cted Front Load V 2 \$634.78 | 4 | | |
| Compost Carts | | 64-gal cart 96 | -gal cart | 2CY |
| 1 x Week | | \$58.60 | \$87.90 | \$247.21 |
| 2 x Week | | \$130.96 | \$189.53 | \$510.90 |
| 3 x Week | | \$203.26 | \$291.16 | \$776.43 |
| 4 x Week | | \$275.60 | \$392.79 | \$1,041.04 |
| 5 x Week 6 x Week | | \$347.93 \$420.26 | \$494.42 \$596.06 | \$1,304.73 \$1,569.34 |
| Stationary Compactor Cost | | | Towable bins, tax, | |
| Stationary Compactor Cost | \$48 513 08 | A1000 2-4CY | Towable bins, tax, | shin Install |

The system capital costs above are estimates utilized for planning purposes only. Pricing includes tax, shipping, and install costs. Due to frequently changing values, do not use these estimates for any other purpose.

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SMITH DEVELOPMENT

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ISSUES AND REVISIONS

NO. DATE DESCRIPTION 12.01.21 PLANNING SUBMITTAL PLANNING RESUBMITTAL #1 08.15.22 PLANNING RESUBMITTAL #2

PLANNING RESUBMITTAL #3 11.02.22 PLANNING RESUBMITTAL #4 08.28.23 PLANNING RESUBMITTAL #5

12.21.23 PLANNING RESUBMITTAL #6 PLANNING RESUBMITTAL #7 09.18.24 PLANNING RESUBMITTAL #8 06.20.25 PLANNING RESUBMITTAL #10

PROJECT NUMBER

SHEET TITLE

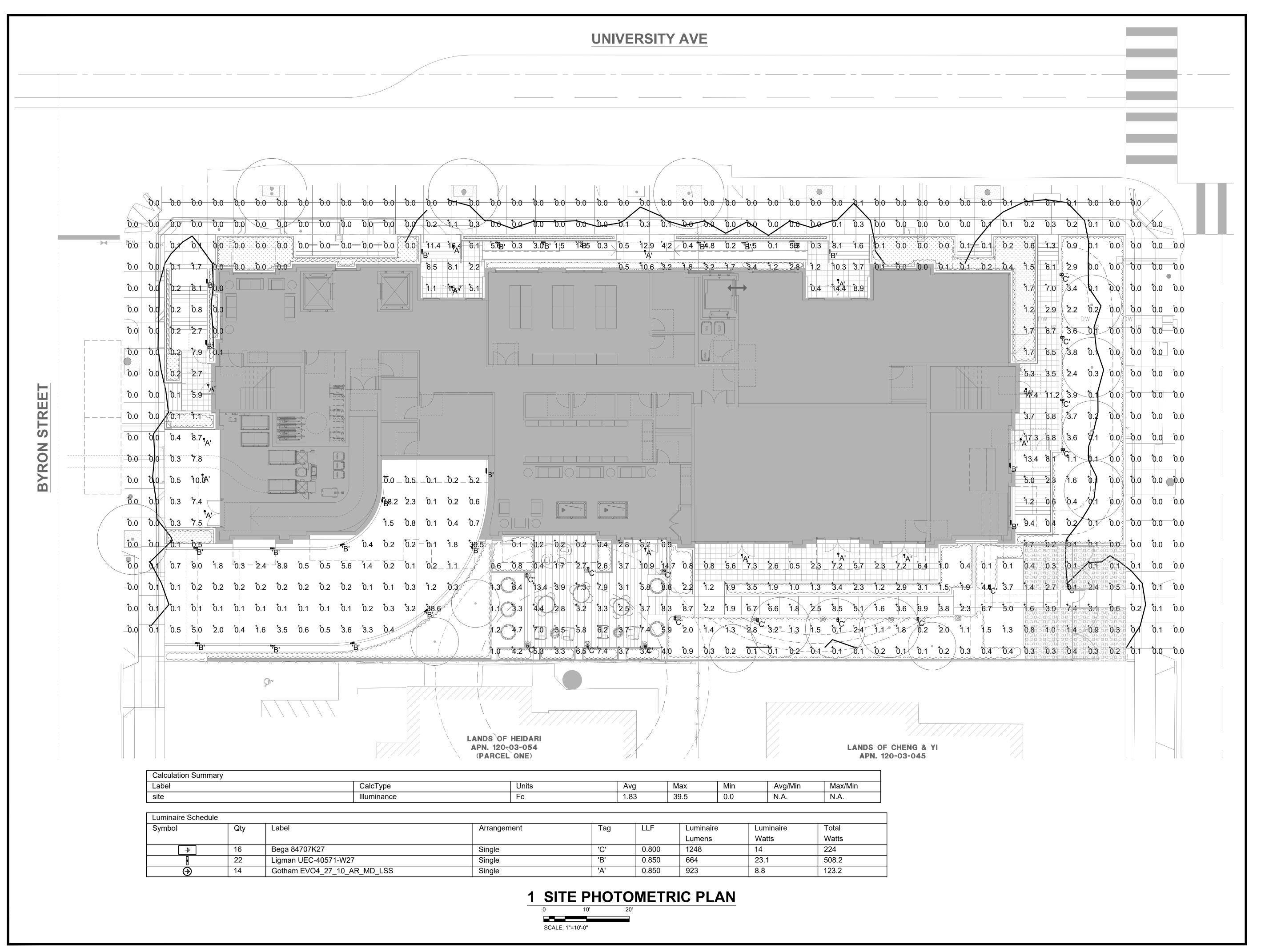
TRASH MANAGEMENT PLAN

SCALE

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SHEET NUMBER

Thursday, June 19, 2025



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ISSUES AND REVISIONS

NO. DATE DESCRIPTION

05.13.22 PLANNING RESUBMITTAL #1

05.13.22 PLANNING RESUBMITTAL #1
08.15.22 PLANNING RESUBMITTAL #2
01.17.25 PLANNING RESUBMITTAL #9
06.20.25 PLANNING RESUBMITTAL #10

PROJECT NUMBER 21003

SHEET TITLE
SITE PHOTOMETRIC PLAN

1" = 10' - 0"



0 10'

SHEET NUM





g gotham ∈ ∨ o

Bounding Ray™ optical design

cal alignment.

Superior Perfomanc

Unitized optics mechanically attach the light

45° cutoff to source and source image

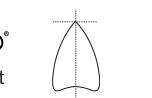
engine to the lower reflector for complete opti-

Fully serviceable and upgradeable lensed LED

Coordinated Apertures I Multiple Layers of Light

General Illumination Layer I EVO

70% lumen maintenance at 60,000 hours



2.5 SDCM; 85 CRI typical, 90+ CRI optional

Available with 10% dimming, 1% dimming, or

Fixtures are wet location, covered ceiling

Batwing distribution with feathered edges

ENERGY STAR® certified product

vertical surfaces

provides even illumination on horizontal and

High Center Beam Layer I Incito

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General Illumination Round Downlight

87.4 79.6 102.3 113.8 111.5 102.3 100.4 99.7 94.1



g gotham ∈ ∨ o°

30 3000 lumens

General Illumination Round Downlight

Luminaire Type: Catalog Number: EXAMPLE: EV04 35/25 AR MWD LSS 120 EZ1 **05** 500 lumens MWD Medium wide LS Specular 3500 K **07** 750 lumens WTR Wheat 4000 K **10** 1000 lumens Gold **WD** Wide (1.2 s/ 15 1500 lumens WR¹ White 5000 K BR1 Black **20** 2000 lumens 25 2500 lumens WRAMF¹ White

| | 35 3500 lumens 40 4000 lumens 45 4500 lumens | | | | | | | | |
|--------------------------|--|---|---|---------------|--------------------------------------|---|---|------------|--|
| | | | | | | | | | |
| Driver ⁴ | | Control Interface | | | Options | Options | | | |
| GZ10 GZ1 | 0-10V driver dims to 10% 0-10V driver dims to 1% | NLT ⁶ NLTER ^{2,6,10} | nLight® dimming p nLight® dimming p | | SF TRW ⁷ | Single Fuse. Speci White painted flang | • | | |
| EZ10 | eldoLED 0-10V ECOdrive. Linear dimming to 10% min. | NLTAIR2 ¹³ nLight® Air enabled | | | TRBL ⁸ EL ⁹ | Black painted flange Emergency battery pack, 10W, with integral test switch | | | |
| EZ1 | eldoLED 0-10V ECOdrive. Linear dimming to 1% min. | NLTAIRER2 ^{2,10,13} | 3 nLight [®] AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit nLight [®] AIR Dimming Pack Wireless Controls. Controls fixtures on | | ELR ⁸ ELSD ⁹ | Emergency battery pack, 10W, with remote test switch Emergency battery pack, 10W, with self-diagnostics, integra test switch Emergency battery pack, 10W, with self-diagnostics, remote test switch | | | |
| EZB EDAB ⁴ | eldoLED 0-10V SOLOdrive. Logarithmic dim- ming to <1%. eldoLED SOLOdrive DALI. Logarithmic dimming | NLTAIREM2 ^{2,13} | | | ELRSD ⁹ | | | | |
| EDXB ⁴ | to <1%. eldoLED POWERdrive DMX with RDM (remote | | emergency circuit options. | | E10WCP ⁹ | | pack, 10W Constant Power, C | A Title 20 | |
| | device management). Square Law dimming to <1%. Minimum 1000 lumens. Includes termination resistor. Refer to DMXR Manual. | EXA1 | XPoint Wireless, ele ECOdrive. Linear d Refer to XPoint tec | imming to 1%. | E10WCPR ⁰ | Emergency battery compliant with rem | pack, 10W Constant Power, C lote test switch | A Title 20 | |
| ECOS25 | Lutron® Hi-Lume® 2-wire forward-phase driv- er.120V only. Minimum dimming level 1%. Min: 1000LM; Max: 2500LM | EXAB | XPoint Wireless, ele SOLOdrive. Logarit to <1%. Refer to X | thmic dimming | N80 ¹¹ BGTD 90CRI | nLight® Lumen Co Bodine generator t High CRI (90+) | mpensation ransfer device. Specify 120\ | / or 277V. | |
| ECOD⁵ | Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Min: 250LLM; Max: 4000LM. | | | | CP ¹² RRL | RELOC®-ready lumi consistent factory in | pecify 120V or 277V for 5000 inaire connectors enable a sin installed option across all ABL | nple and | |

ISSUES AND REVISIONS

05.13.22 PLANNING RESUBMITTAL #1 08.15.22 PLANNING RESUBMITTAL #2

KORTH SUNSERI HAGEY

SMITH DEVELOPMENT

660 UNIVERSITY

PALO ALTO, CA 94301

01.17.25 PLANNING RESUBMITTAL #9

LIGHT FIXTURE CUT SHEETS TRASH MANAGEMENT PLAN

660 University Exterior Lighting Cutsheet package

660 University Avenue 2021-1343

Prepared for: Korth Sunseri Hagey Architects

Prepared by: Kristina Santi, LC, Assoc. IALD

January 16, 2025

MEP Engineering | Fire/Life Safety | Lighting Design | Energy Consulting | Building Technologies | Commissioning



gotham^e

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page 1 of 8

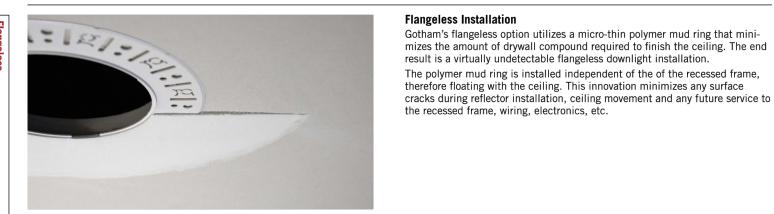


EVO + Incito — Multiple Layers of Light

gotham^e

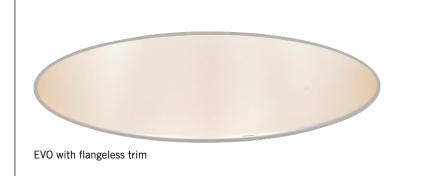
page 5 of 8

result is a virtually undetectable flangeless downlight installation. The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.





Partially finished mud ring, showing cross-section detail.





This luminaire is part of an A+ Certified solution for nLight[®] control networks when ordered with drivers marked by a shaded background*

options marked by a shaded background*

*See ordering tree for details

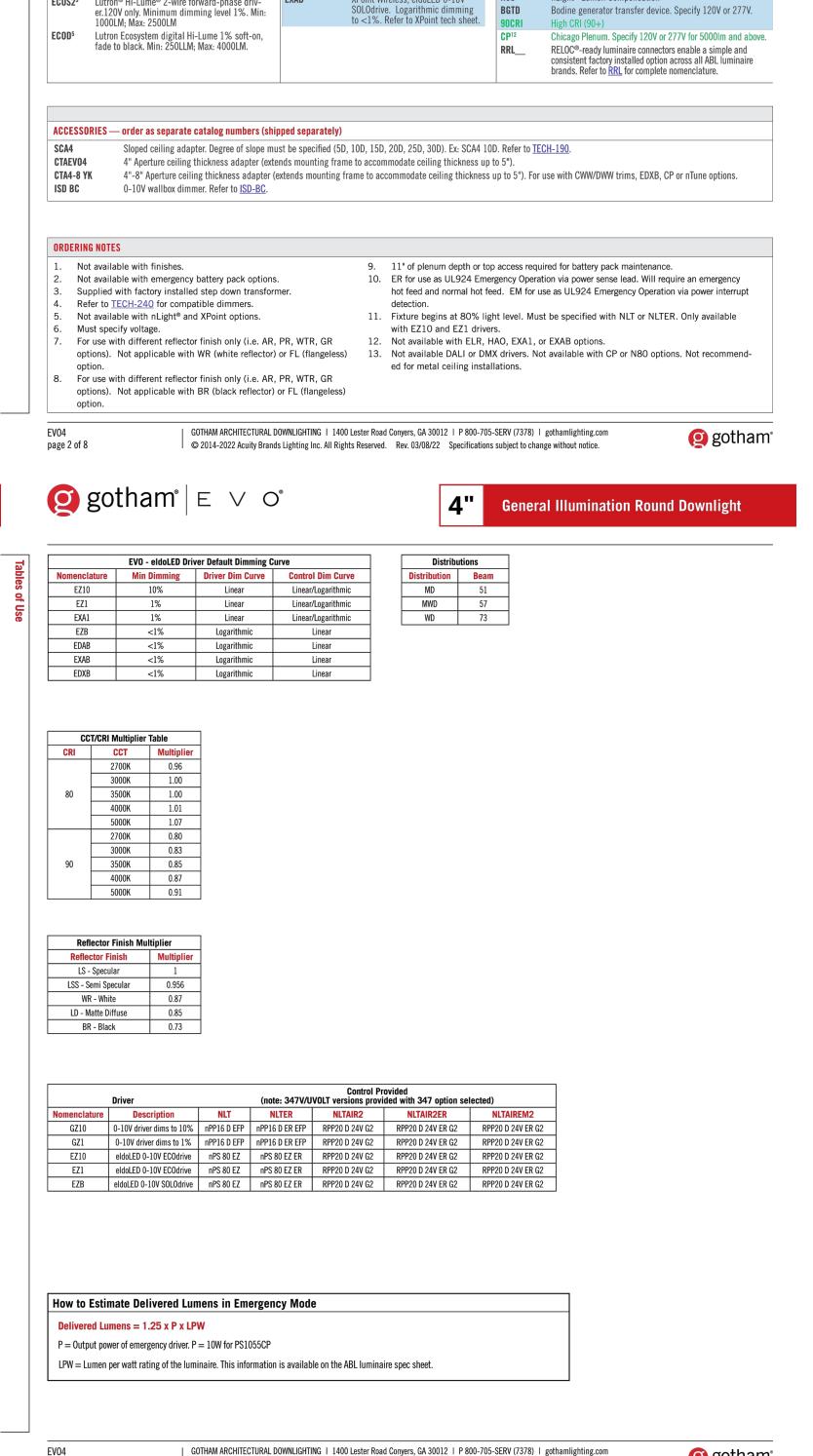
page 3 of 8

To learn more about A+, visit www.acuitybrands.com/aplus.

• This luminaire is part of an A+ Certified solution for nLight* control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control

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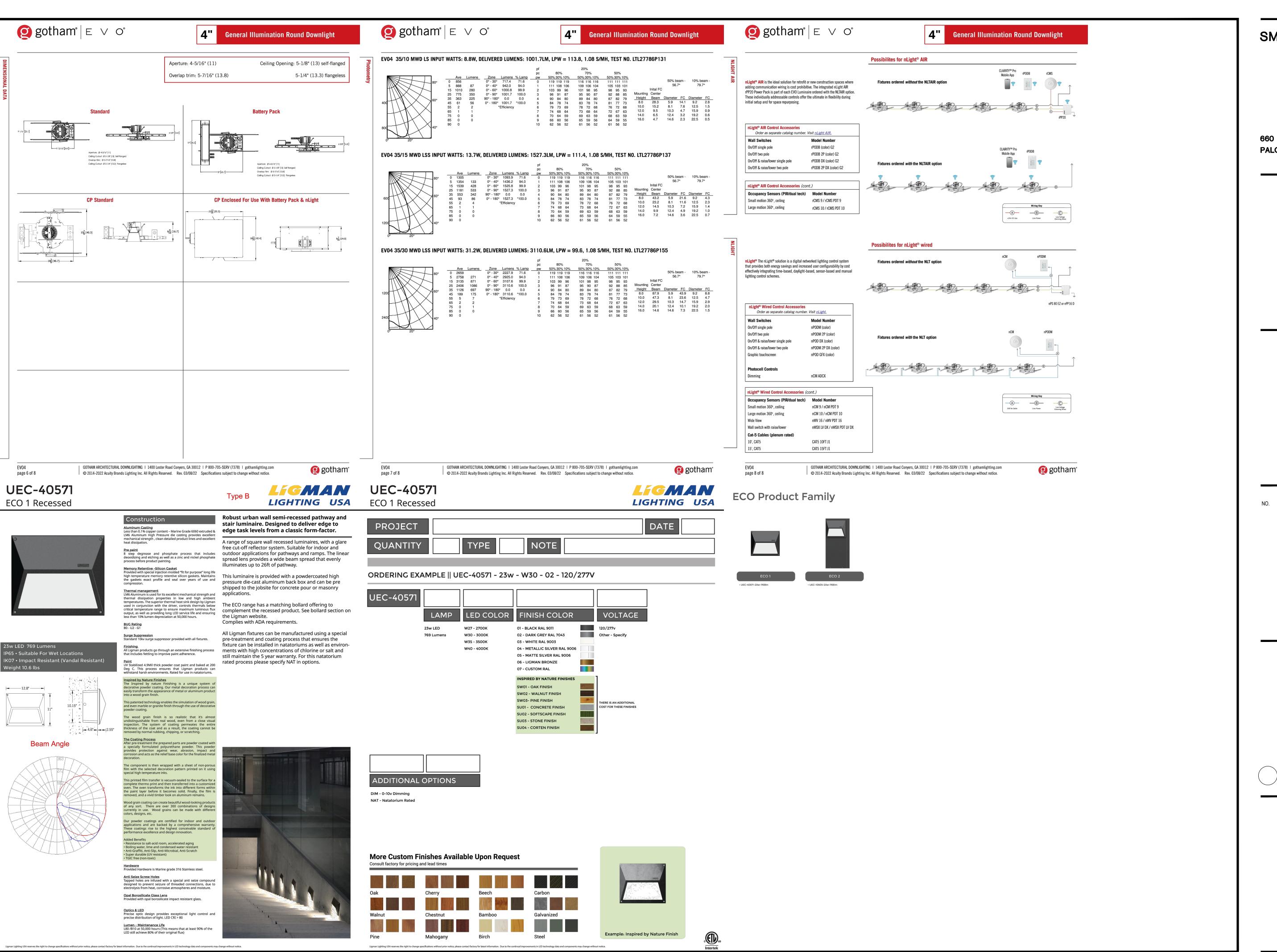
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(2) gotham



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ISSUES AND REVISIONS

DATE DESCRIPTION

05.13.22 PLANNING RESUBMITTAL #1

08.15.22 PLANNING RESUBMITTAL #2 01.17.25 PLANNING RESUBMITTAL #9

PROJECT NUMBER

21003

SCALE

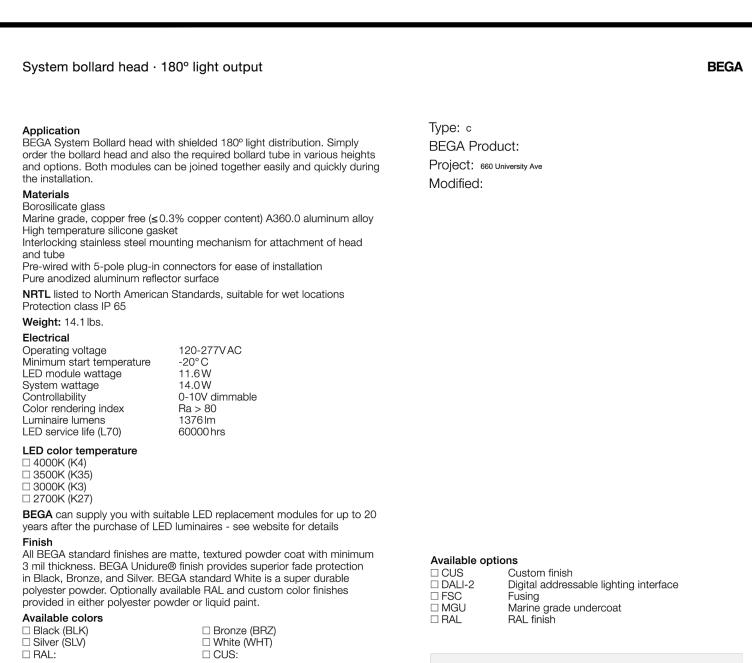
SHEET TITLE

LIGHT FIXTURE CUT SHEETS

TRASH MANAGEMENT PLAN

N.T.S.

SHEET NUMBER





BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com
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Updated 01/07/25

System bollard summary · Round

The overview provides a compact summary of the possibilities for

The overview provides a compact summary of the possibilities for combining the various bollard heads with the bollard tubes and their additional functions.

For each bollard head you can find matching bollard tubes with and without components.

| System bollard heads with compatible tubes | Ţ | | | | 7 | | = | 7 | |
|--|---------|--------------|---------|---------|-----|----------|----------|-------------|--------------|
| BEGA bollard tubes Ø in inches | 05½ 07½ | 05½ 07½ 010¾ | ø5½ ø7½ | ø5½ ø7½ | ø7½ | ø7½ ø10¾ | ø7½ ø10¾ | ø7 <i>½</i> | ø5½ ø7½ ø10¾ |
| Without components in two heights | • | | • | | • | • | • | • | |
| With integral floodlight | • | • | • | • | • | • | • | • | • |
| With integral PIR motion sensor | • | • • | • | • | • | • | • | • | |
| With emergency lighting battery | • | | • | • | • | | • | • | |
| With drive-through protection | | • | | | | • | • | | • |
| With integral GFCI outlet | • | | • | • | • | • | • | • | |
| With integral 240V receptaclefor electric vehicles | | • | | | | • | • | | • |
| Wood bollard tubes | | | | • • | • | | • | • | |

| System bollard tub | e · No access door | | System bollard tube | e · Drive-through protection | |
|--------------------|---------------------------------|---------|---------------------|------------------------------|------|
| | А | В | | А | В |
| 399619 | 103/8 | 143/4 | B84623 | 103/8 | 343/ |
| ystem bollard tub | e · With access door | | System bollard tub | e · Integral GFCI outlet | |
| | А | В | | А | В |
| 99624 | 103/8 | 341/2 | B99627 | 103/8 | 341/ |
| System bollard tub | e · Integral PIR motion sensor | | System bollard tube | e · Integral 240V receptacle | |
| | А | В | | А | В |
| 9659 | 103/8 | 341/2 | B98010 | 103/8 | 39 |
| system bollard tub | e · Integral emergency lighting | battery | Wood system bolla | rd tube · Round | |
| | Α | В | | А | В |
| 9636 | 10³/ ₈ | 341/2 | B84465 | 10³/ ₈ | 341/ |

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com
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Updated 01/07/25

SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301



ISSUES AND REVISIONS

DESCRIPTION

05.13.22 PLANNING RESUBMITTAL #1 08.15.22 PLANNING RESUBMITTAL #2

01.17.25 PLANNING RESUBMITTAL #9

PROJECT NUMBER 21003

SHEET TITLE

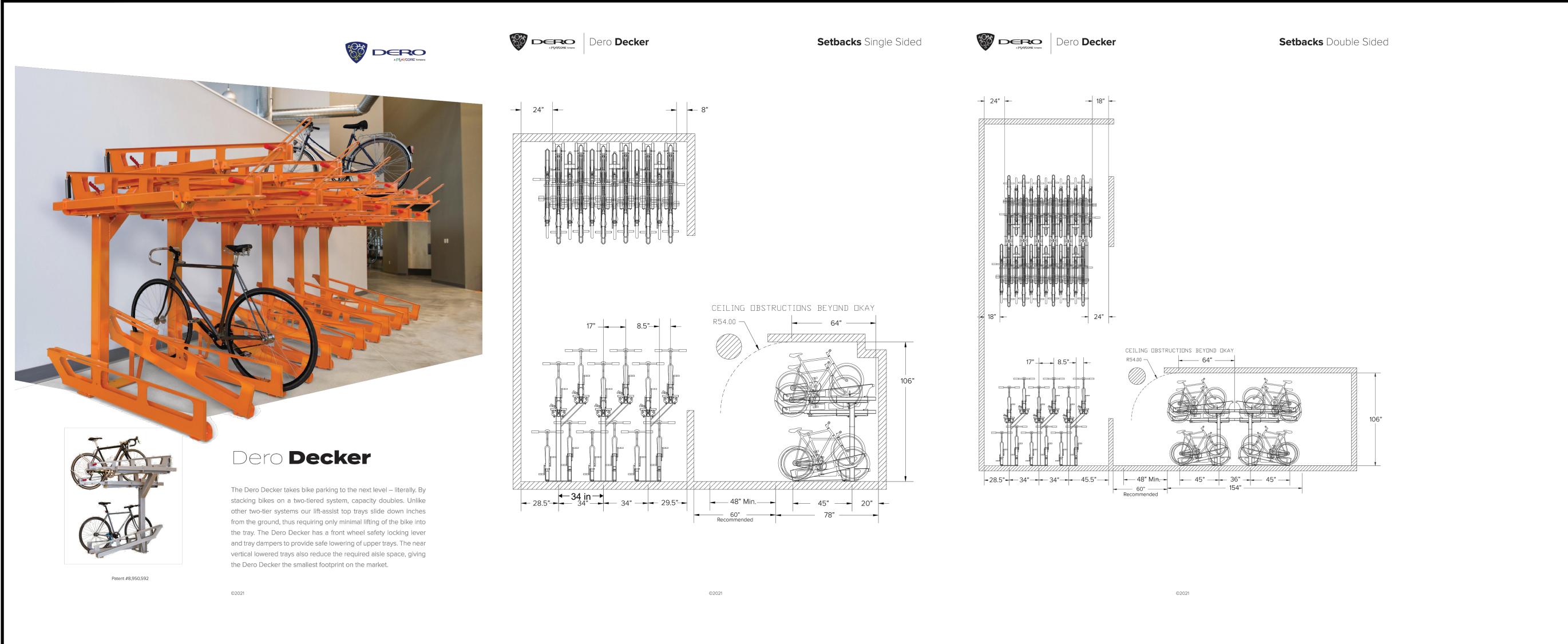
LIGHT FIXTURE CUT SHEETS

TRASH MANAGEMENT PLAN

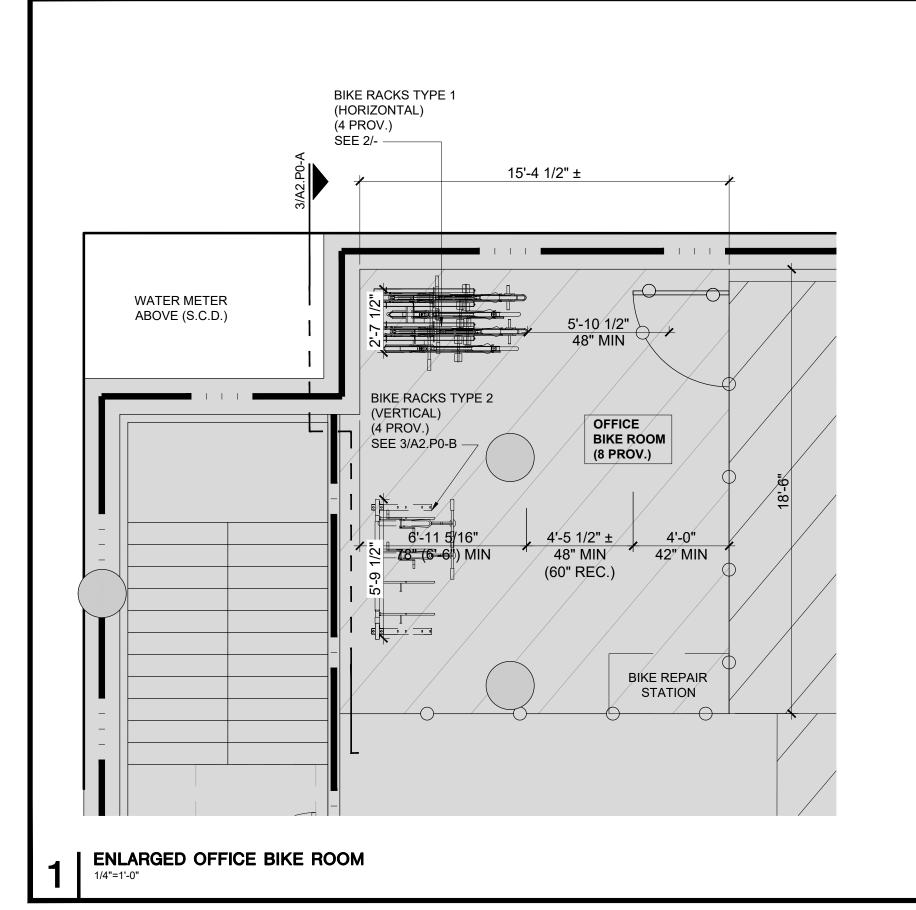
SCALI

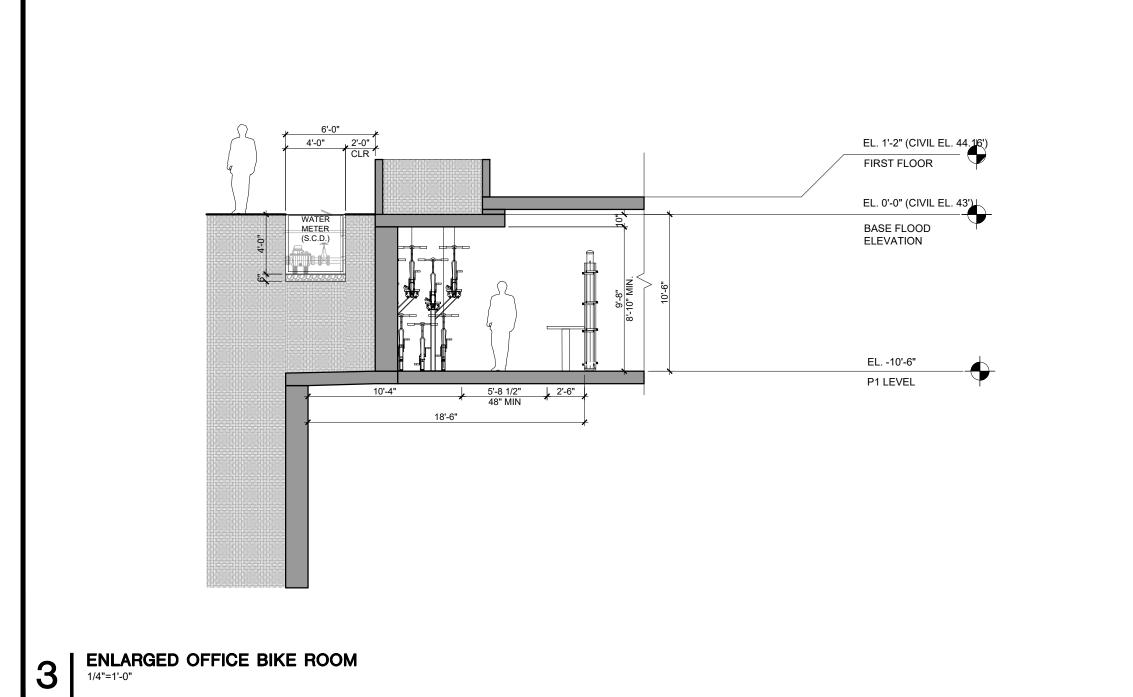
SHEET NUMBER

F020



2 | HORIZONTAL BIKE RACK CUT SHEETS





SMITH DEVELOPMENT

660 UNIVERSITY
PALO ALTO, CA 94301



NO. DATE DESCRIPTION

05.13.22 PLANNING RESUBMITTAL #1
08.15.22 PLANNING RESUBMITTAL #2
11.02.22 PLANNING RESUBMITTAL #3
08.28.23 PLANNING RESUBMITTAL #4
10.31.23 PLANNING RESUBMITTAL #5
01.17.25 PLANNING RESUBMITTAL #9
06.20.25 PLANNING RESUBMITTAL #10

SHEET TITLE

LONG TERM BIKE STORAGE
PARKING LEVEL P1

SCALE

PROJ NORTH

O 4'-0" 8'-0"

SHEET NUMBER

PROJECT NUMBER 21003

A2.P0-A



Ultra Space Saver™ Squared

Dero's Ultra Space Saver Squared offers high-security, vertical bike parking. Adjustable sliding arms make it easy for customers to best utilize their space. It also creates flexibility to make sure bike spacing follows city requirements as they evolve. Pipecutter resistant squared steel tubing makes the Ultra Space Saver Squared more secure than the original Ultra Space Saver.

Patent D774,441

©2023

Example shown above is a 4-unit section.

Lengths may vary based on your space.



(Examples above show 62" long crossbar sections)

78"——62"—

Ultra Space Saver Squared sections

vary in length to fit most spaces. Above

are common crossbar lengths for arms

21'8" -----

As a general guideline, the above space can fit approximately 60 bicycles.

The Ultra Space Saver Squared parks

one bike every 16" with a typical bike

extending out 42" from the wall.

spaced 16"OC

Single Sided

CAPACITY

MATERIALS

WHEEL STOPS

CANE STOPS

Modular construction 1 bike per arm

tamperproof locking bolts. Upright: 2" square tube.

▼ Black Powder Coat (Interior Use)

following these steps: 1. Sandblast

Include wheel stops

Optional wheel stops are available for both floor —

and wall mounted racks for an additional cost

Include cane stops

Optional cane-detectable stops are available

for both floor and wall

mounted racks for an

additional cost

Floor mount

Hanger: 1" square tube with steel slider head with

Feet: AISI C3 x 4.1 galvanized steel channel.

2. Final thick TGIC polyester powder coat

2. Epoxy primer electrostatically applied 3. Final thick TGIC polyester powder coat

on sheetrock without additional support.

Black Powder Coat (Exterior Use) Additional Cost Our exterior powder coat finish assures a high level of adhesion and durability for outdoor or exposed air use by

Ultra Space Saver Squared have steel channel feet (30" for single sided and 56" for double sided units) which must be anchored to the floor.

A wall mounted unit which contains special brackets is also

available for CMU or solid concrete walls. Cannot be used

Crossbeams: 1.25" sched. 40 galvanized pipe.

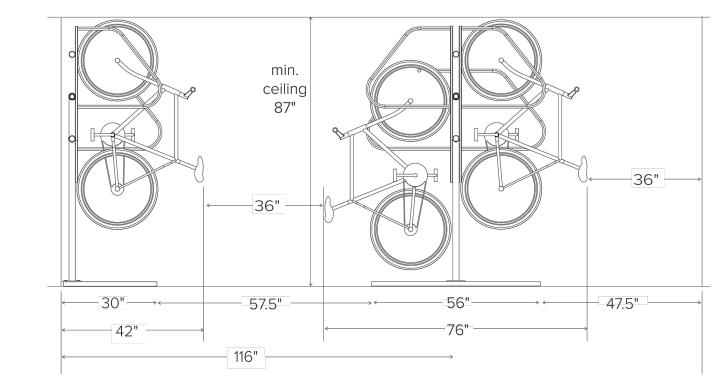
Our interior powder coat finish assures a high level of adhesion and durability for indoor use by following these

Submittal Sheet

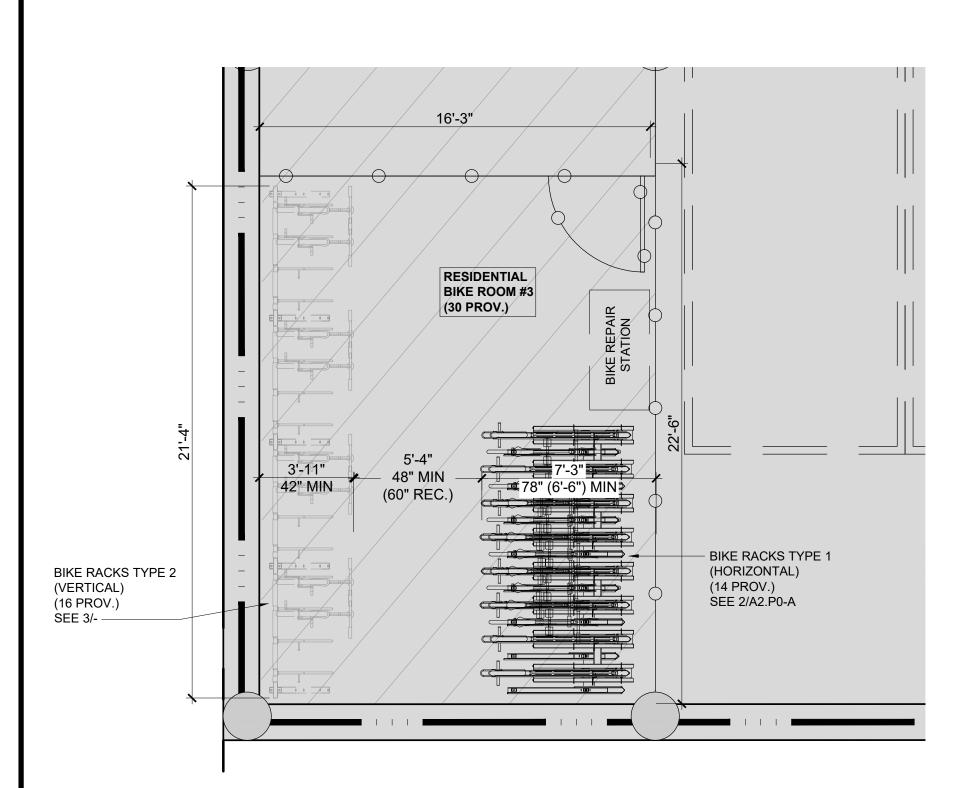


Ultra Space Saver™ Squared

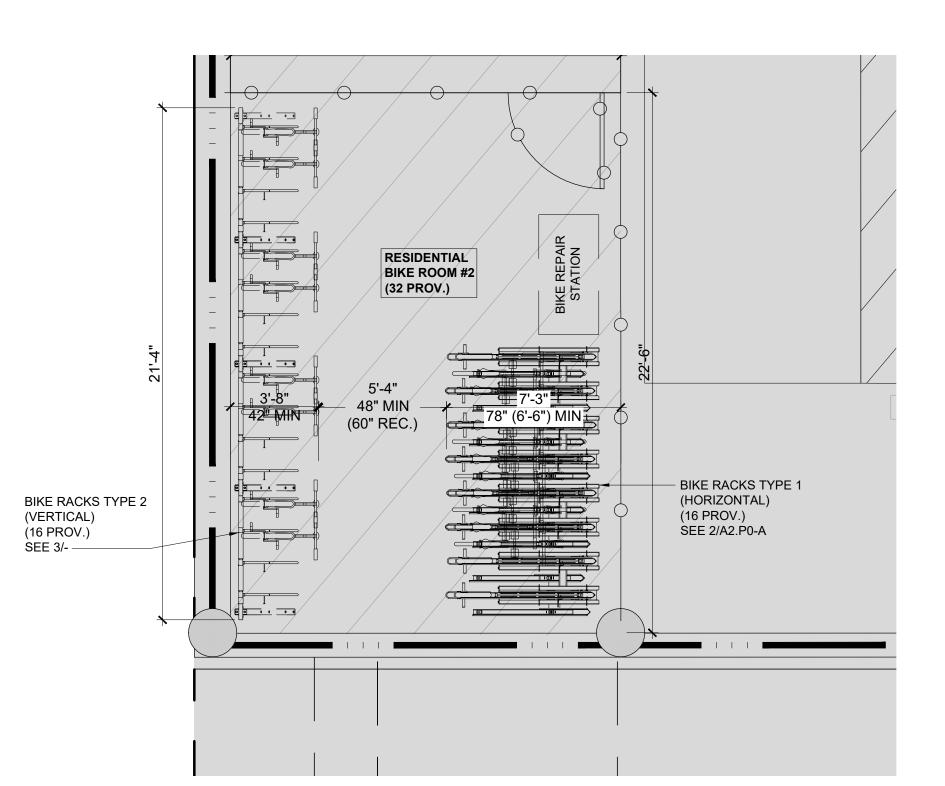
Setbacks



2 | VERTICAL BIKE RACK CUT SHEETS



ENLARGED RESIDENTIAL BIKE ROOM #1 PLAN (P2 LEVEL)



ENLARGED RESIDENTIAL BIKE ROOM #2 (P1 LEVEL)

SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301



ISSUES AND REVISIONS

PLANNING RESUBMITTAL #1 PLANNING RESUBMITTAL #2

PLANNING RESUBMITTAL #3 PLANNING RESUBMITTAL #4 PLANNING RESUBMITTAL #5 01.17.25 PLANNING RESUBMITTAL #9

SHEET TITLE

LONG TERM BIKE STORAGE PARKING LEVEL P1 & P2

1/4" = 1'-0" NORTH

A2.P0-B







7. TYPE OF CONTROL

Interactive control unit: We replaced the dead man's control function from the turning key to a set of two interactive push buttons. This advancement provides additional comfort, security an functionality.

 The push buttons are illuminated so that the control unit can provide information on the system This new system allows the integration of many

custom safety solutions.

8. ELECTRICAL ELEMENTS

Connected load of unit: 3 kW / 400 V / 50 Hz

Item Description Services provided in the system: Operator terminal including two interactive push Electric meter buttons for raising and lowering. 2 Fuse or automatic circuit breaker • Emergency stop placed outside of the system's according to DIN VDE 0100 part 430, range of movement. max. 16 A

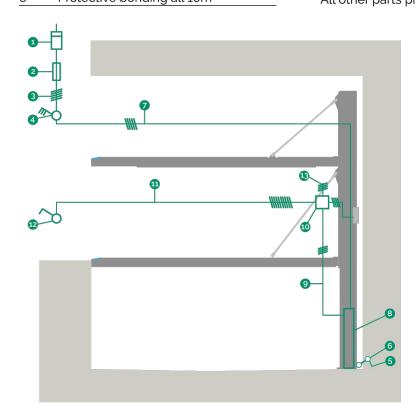
3 According to local power supply regulations 3 PH + N + PE Main switch lockable

To be provided from customer:

5 Connection for the protective potential equalization DIN 60204

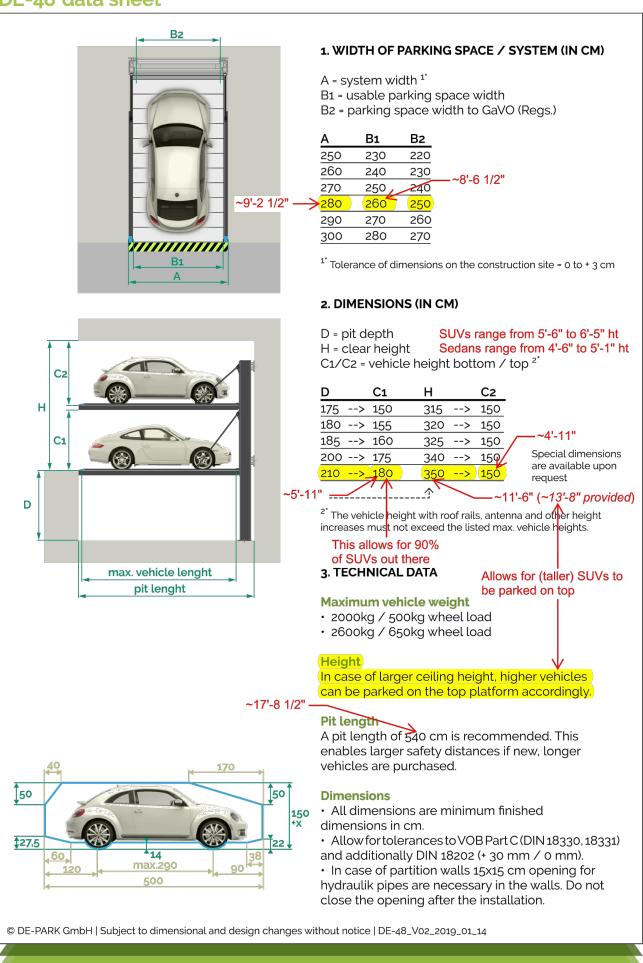
Protective bonding all 10m

All other parts provided by DE-PARK.



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DE-48 data sheet



DE-48 data sheet

9. SYSTEM-RELATED REQUIREMENTS

Maintenance, cleaning & prevention • The systems must be serviced and cleaned regularly. This applies more so if the systems and the platforms are exposed to aggressive substances such as salt, water, dirt, operating supplies, sand, etc. · Adequate drainage must be ensured.

The garage must be adequately ventilated.

10. LEGAL REQUIREMENTS



Marking tape on the edge of the pit According to EN 14010 / ISO 3864, a 10cm wide, black & yellow warning marking must be attached to the edge of the pit.

Separating elements / Barriers According to EN ISO 13857, separating elements or barriers must be installed in the pedestrian area / accessible areas around the parking system, including during installation.

Fire safety The garage design must fulfil the regional fire safety provisions. The requirements can vary. Therefore the situation must be clarified and information obtained in advance by the customer and then agreed and coordinated.

According to the noise insulation regulations for buildings to DIN 4109, a value of 30dB (A) must be complied with in occupied rooms and spaces. You receive a sound insulation package with the system for the required 30dB (A) insulation of the structure is also necessary. Sound reduction index min. Rw = 57dB.

11. REQUIREMENTS ON SITE

Ambient conditions Temperature range from -5 to +40 °C. Relative humidity max. 80%. Please contact DE-PARK in case of different conditions.

The parking spaces must be adequately illuminated on site as specified.

12. CE AND CONFORMITY

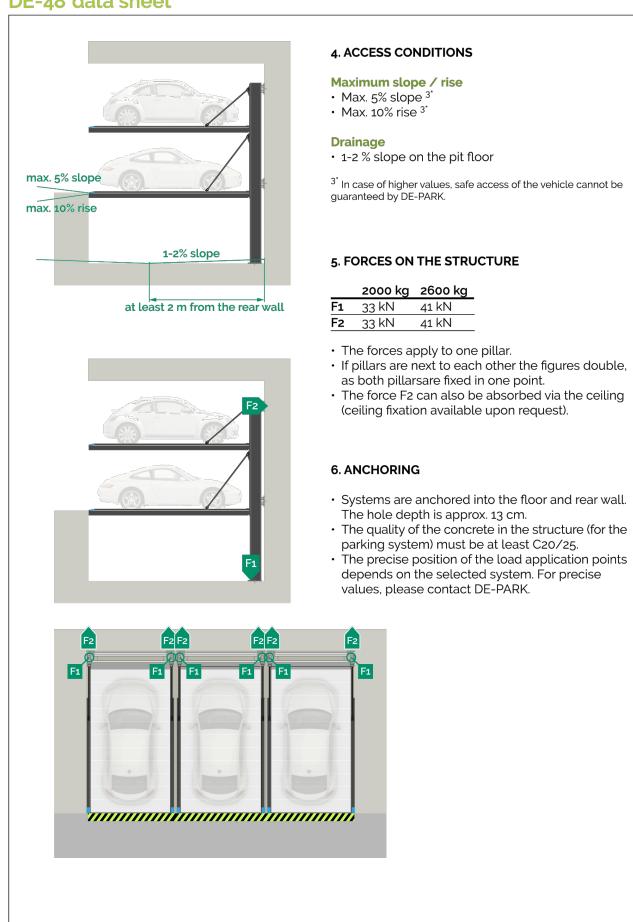
• EN 14010-2009-12 Safety of Machinery - Equipment for power driven parking of motor vehicles Machinery Directive 2006/42/EC



We reserve the right to continuously develop our product on the basis of technical progress and to make changes and/or modifications to parts, assemblies or overall, to processes and to standards with no advance notice.

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DE-48 data sheet



DE-PARK IS MAKING YOUR LIFE EASY:

GERMAN MADE WITH A SLIM & MODULAR DESIGN EASY PLANNING AND SETUP

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LOW MAINTENANCE CONSTRUCTION EASY TO USE WITH LOW NOISE EMISSIONS

NO PILLARS IN THE ENTRY AND PEDESTRIAN AREA EASY MANOEUVERING AND SENSORLESS POSITIONING

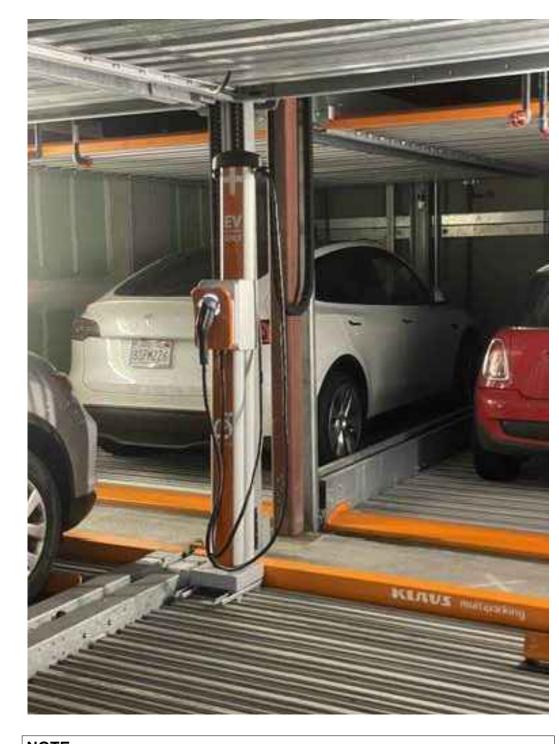
FLAT & CONTINUOUS PLATFORM EASY TO CLEAN AND COMFORTABLE TO WALK ON



DE-PARK GmbH Brühl 6

04109 Leipzig Germany

Phone: 0049 (0)341 - 24700 131 Fax: 0049 (0)341 - 24700 132 Email: info@de-park.com Web: www.de-park.com



ALL PROPOSED STACKER STALLS (2 EA. STACKER) TO INCORPORATE EV CHARGER OR BE PROVIDED WITH AN EV CHARGER READY OUTLET, TYP. AT ALL P2 LEVEL STALLS AS REQUIRED. IMAGE ABOVE IS AN EXAMPLE OF A SIMILAR INSTALLATION. DETAILS & CONFIGURATION WILL BE PROVIDED

SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301



ISSUES AND REVISIONS

05.13.22 PLANNING RESUBMITTAL #1 08.15.22 PLANNING RESUBMITTAL #2

PLANNING RESUBMITTAL #3 PLANNING RESUBMITTAL #4

10.31.23 PLANNING RESUBMITTAL #5

SHEET TITLE PARKING LIFT CUT SHEETS

PARKING LEVEL P2

A2.P0-C

IN THE FUTURE BUILDING PERMIT SUBMITTAL.



660 UNIVERSITY PALO ALTO, CA 94301



| | | ISSUES AND REVISIONS |
|-----|----------|-------------------------|
| NO. | DATE | DESCRIPTION |
| | 12.01.21 | PLANNING SUBMITTAL |
| | 05.13.22 | PLANNING RESUBMITTAL #1 |
| | 08.15.22 | PLANNING RESUBMITTAL #2 |
| | 11.02.22 | PLANNING RESUBMITTAL #3 |
| | 08.28.23 | PLANNING RESUBMITTAL #4 |
| | 10.31.23 | PLANNING RESUBMITTAL #5 |
| | 12.21.23 | PLANNING RESUBMITTAL #6 |
| | 02.07.24 | PLANNING RESUBMITTAL #7 |
| | 05.02.24 | AD HOC REVISIONS |
| | 09.30.24 | PLANNING RESUBMITTAL #8 |
| | 01.17.25 | PLANNING RESUBMITTAL #9 |
| | 06.20.25 | PLANNING RESUBMITTAL #1 |

PROJECT NUMBER 21003

SHEET TITLE
RENDERING

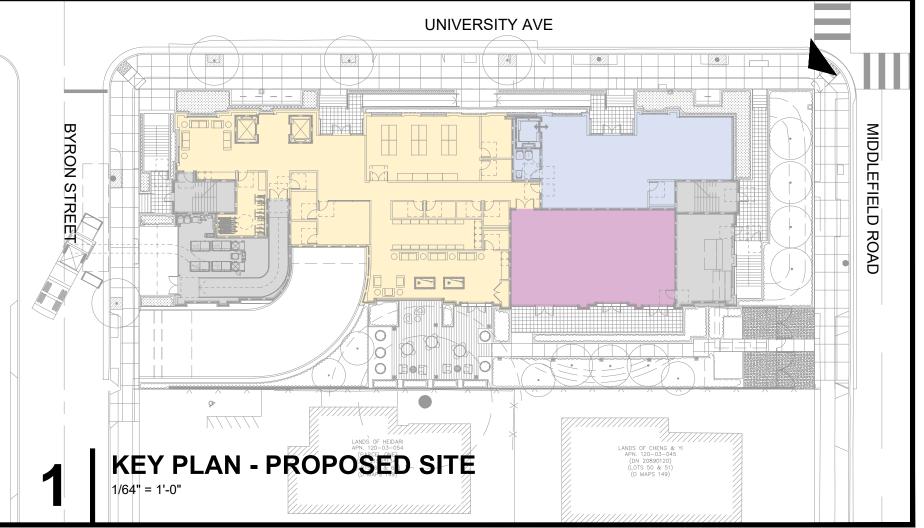
SCALE

AS NOTED

SHEET NUMBE

R1

PEDESTRIAN VIEW FROM MIDDLEFIELD ROAD AND UNIVERSITY AVE





KEY PLAN - PROPOSED SITE

SMITH DEVELOPMENT

660 UNIVERSITY PALO ALTO, CA 94301



| | | ISSUES AND REVISIONS |
|-----|----------|--------------------------|
| NO. | DATE | DESCRIPTION |
| | 12.01.21 | PLANNING SUBMITTAL |
| | 05.13.22 | PLANNING RESUBMITTAL #1 |
| | 08.15.22 | PLANNING RESUBMITTAL #2 |
| | 11.02.22 | PLANNING RESUBMITTAL #3 |
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| | 02.07.24 | PLANNING RESUBMITTAL #7 |
| | 05.02.24 | AD HOC REVISIONS |
| | 09.30.24 | PLANNING RESUBMITTAL #8 |
| | 01.17.25 | PLANNING RESUBMITTAL #9 |
| | 06.20.25 | PLANNING RESUBMITTAL #10 |

21003

SHEET TITLE

RENDERING

sc

AS NOTED

SHEET NUM



660 UNIVERSITY
PALO ALTO, CA 94301



ISSUES AND REVISIONS

NO. DATE DESCRIPTION

08.28.23 PLANNING RESUBMITTAL #4

10.31.23 PLANNING RESUBMITTAL #5

12.21.23 PLANNING RESUBMITTAL #6

02.07.24 PLANNING RESUBMITTAL #7
05.02.24 AD HOC REVISIONS
09.30.24 PLANNING RESUBMITTAL #8
01.17.25 PLANNING RESUBMITTAL #9

06.20.25 PLANNING RESUBMITTAL #10

PROJECT NUMBER 21003

SHEET TITLE

RENDERING

SCALE

AS NOTED

SHEET NUMBER

R3

KEY PLAN - PROPOSED SITE

1/64" = 1'-0"



660 UNIVERSITY PALO ALTO, CA 94301



NO. DATE DESCRIPTION

08.28.23 PLANNING RESUBMITTAL #4
10.31.23 PLANNING RESUBMITTAL #5
12.21.23 PLANNING RESUBMITTAL #6
02.07.24 PLANNING RESUBMITTAL #7
05.02.24 AD HOC REVISIONS
09.30.24 PLANNING RESUBMITTAL #8
01.17.25 PLANNING RESUBMITTAL #9
06.20.25 PLANNING RESUBMITTAL #10

PROJECT NUMBER 21003

SHEET TITLE

RENDERING

AS NOTED

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SHEET NUMBER

R4

PEDESTRIAN VIEW FROM MIDDLEFIELD ROAD

