TREANORHL

4249 CHEENEY ROAD, SANTA CLARA, CALIFORNIA HISTORIC RESOURCE EVALUATION – POTENTIAL IMPACTS

DRAFT

JANUARY 17, 2023



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Project Name: Cheeney Townhomes HRE
Project #: HP0826.1901.00
January 17, 2023

1. INTRODUCTION & METHODOLOGY

David J. Powers has requested an evaluation of a proposed project located at 4249 Cheeney Street for potential effects to historic resources adjacent to and within 200 feet of the project site. Located approximately 90 feet north of the project site, the building at 2086 Agnew Road (APN 104-12-028) is identified as a locally designated property on the City of Santa Clara's Historic Preservation and Resource Inventory. This report provides a project description, impacts analysis, and mitigation measures pertaining to the proposed project's potential effects on 2086 Agnew Road.

The proposed project was reviewed in October 2019, and since then the design has changed. This updated report takes the latest designs, dated December 15, 2022, from MFA Engineers and Associates, into consideration.

TreanorHL conducted a site visit on January 9, 2023; and reviewed the Santa Clara Historic Preservation and Resource Inventory, Santa Clara City Code Chapter 18.106 Historic Preservation, the DPR form for 2086 Agnew Road, and drawings from MFA Engineers and Associates.



Figure 1. Aerial view of the area; the project site at 4249 Cheeney Street outlined in red and 2086 Agnew Road marked with a star (Google Earth, imagery date March 2022).

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Figure 2. The project site at 4249 Cheeney Street, looking north (Imagery date January 2023).

2. 2086 AGNEW ROAD

The building at 2086 Agnew Road is locally designated as a historic resource. Listed on the City of Santa Clara's Historic Preservation and Resource Inventory, the Agnew School was constructed ca. 1890 and "served the surrounding community until 1927 when it was permanently closed." The building has been used as a residence ever since.¹

Set back approximately 25 feet from the sidewalk, this tall one-story building is T-shaped in plan. The wood-frame structure has horizontal wood siding and a shingle-clad front-facing gabled and hipped roof with an enclosed cornice and a profiled frieze. A brick chimney pierces the roof at the center. The primary window type is wood-sash double-hung with simple wide trim. On the front (north) façade, a partial-width, central gabled porch with square pillars shelters the main entrance, which consists of a single wood door. The porch is raised on a concrete platform with three steps on all sides. A pair of double-hung windows flank each side of the porch. The detached garage at the southeast corner of the parcel is reached by an asphalt driveway. A two-story accessory unit is located to the southwest of the main house.

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¹ City of Santa Clara 2010-2035 General Plan, "8.9 Historic Preservation and Resource Inventory;" City of Santa Clara/Planning, 2086 Agnew Road DPR Form, 1992.



Figure 3. The building at 2086 Agnew Road, view of the north and east facades (Imagery date Janaury 2023).



Figure 4. The building at 2086 Agnew Road, view of the north and west facades (Imagery date January 2023).

Character-defining features of the property include the following:

Tall one-story, T-shaped massing

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- Wood-frame construction
- Front-facing gabled (front) and hipped (rear) roof
- Horizontal wood siding
- Symmetrical front (north) façade
- Central partial-width gabled porch with square pillars
- Raised entry platform
- Double-hung wood-sash windows with simple trim

3. PROJECT DESCRIPTION

The project site consists of two adjacent parcels at 4249 Cheeney Street (APN 104-12-025 and 104-12-026) in the Agnew Village neighborhood of the City of Santa Clara. The 150' by 150' site is currently vacant with no existing buildings or infrastructure. Vegetation is grassy with bushes and a handful of small trees. The surrounding lots contain one- or two-story single-family houses, scattered outbuildings, and driveways. A group of two-story townhomes are located immediately east of the project site.

The project proposes nine units of two-story single-family residential townhouses, each with a two-car garage. The garages are accessed by an L-shaped paved surface drive dividing the two rows of buildings. To the north is a set of five townhomes with asphalt-clad front gabled roofs, and to the south, along Cheeney Street, is a set of four units with hipped roofs. Each unit is roughly rectangular in plan and clad in cement plaster and board-and-batten siding. A mix of operable and fixed windows are on all the units.

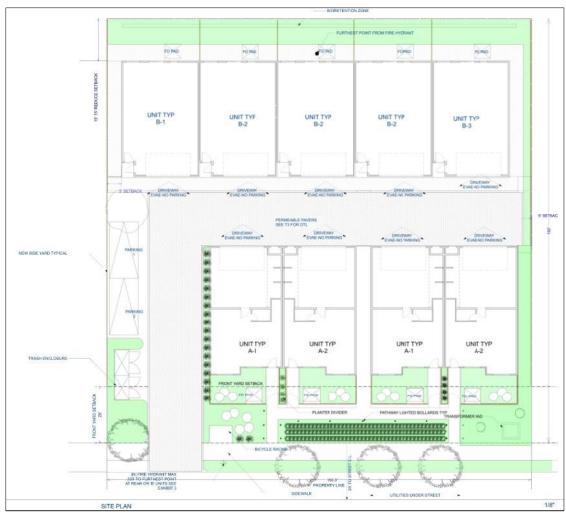


Figure 5. The proposed project, site plan (MFA Construction and Engineering, December 2022).

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Figure 6. The proposed project, elevations (MFA Construction and Engineering, December 2022).



Figure 7. The proposed project, elevations (MFA Construction and Engineering, December 2022).

4. IMPACTS AND MITIGATION MEASURES

Historical resources include properties eligible for listing on the National Register of Historic Places, the California Register of Historical Resources, or a local register of historical resources (as defined in Public Resources Code §5020.1(k)). As discussed above, 2086 Agnew Road is listed on the *Historic Preservation and Resource Inventory* of Santa Clara. According to Public Resources Code §15064.5(b), a project

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would have a significant effect on a historic resource if it would "cause a substantial adverse change in the significance" of that resource. Specifically, "[s]ubstantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired."

In case of new construction, the Secretary of the Interior's Standards are applied to determine the compatibility of the proposed project with the existing historic resource. Of the ten Standards for Rehabilitation, only #9 and #10 apply to new construction.

- 9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
 - The proposed development does not significantly alter the immediate surroundings of the property. The density and the scale of the proposed buildings are appropriate with the height of the historic resource at 2086 Agnew Road. The proposed design is modern with simple, cubic forms; therefore, it is easily distinguished from the historic. The proposed materials; i.e. wood and cement plaster, are compatible with the adjacent historic resource and its vicinity. Overall, the project at 4249 Cheeney Street will be compatible with the massing, size, scale, and architectural features of the historic resource at 2086 Agnew Road. Therefore, the proposed project complies with Standard 9.
- 10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.
 - The proposed development will be constructed approximately 90 feet south of the historic resource at 2086 Agnew Road. The project will not diminish the integrity of the subject building or its surroundings. If new construction were to be removed in the future, the essential form and integrity of the historic property will be unimpaired. Therefore, the proposed project complies with Standard 10.

5. CONCLUSION

The revised December 2022 project proposed at 4249 Cheeney Street is consistent with the Secretary of the Interior's Standards for Rehabilitation and will not have any impacts on the historic resource at 2086 Agnew Road. The proposed project would not cause 2086 Agnew Road to lose its current historic status as a locally designated resource. The proposed development would be contemporary but compatible with the historic resource and its surroundings. The integrity of the historic resource would not be impaired. The construction of the project would not have a direct impact on 2086 Agnew Road. The proposed project would not have an indirect impact on 2086 Agnew Road from construction activities (i.e. vibration) since the historic resource is not immediately adjacent to the development.

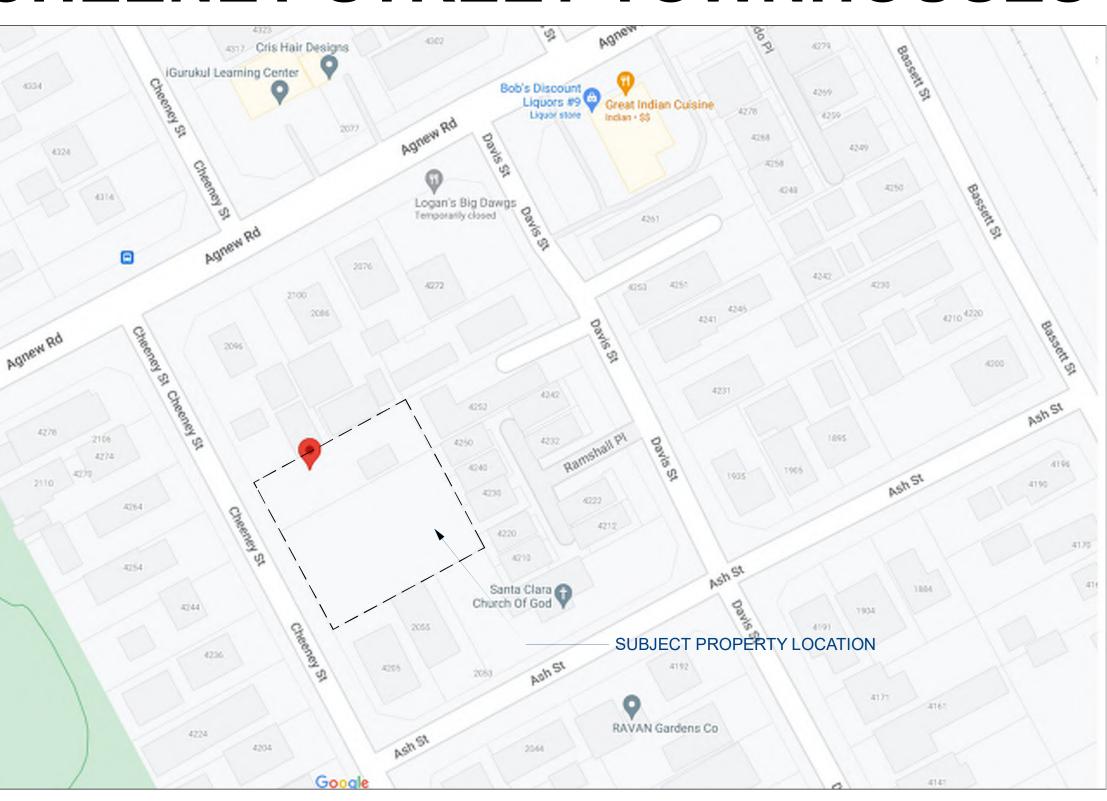
Project Name: Cheeney Townhomes HRE Project #: HP0826.1901.00 January 17, 2023

APPENDIX

MFA Engineers & Associates, Cheeney St. Townhouses Plans, 4249 Cheeney St, Santa Clara, CA 95054, 12/19/2022

SYMBOLS:		Д	BBREVIATIO	NS:		APPL	ICABLE CODES:
BUILDING LAYOUT POINT	BLP	A A.C. ACOUS AC.T. AC.P. A.D.	Aspahlt Concrete Acoustical Acoustical Tile Acoustical Panel Area Drain	LB./# L.F. LKR. LT. LG.	Pound Linear Feet Locker Light Large	BUILDING MECHANICAL PLUMBING ELECTRICAL	2019 CALIFORNIA BUILDING CODE (CBC) 2019 CALIFORNIA MECHANICAL CODE (CMC) 2019 CALIFORNIA PLUMBING CODE (CPC) 2019 CALIFORNIA ELECTRICAL CODE (CEC)
DATUM POINT ELEVATION	—	ADJ. AGGR. A.F.F. AL./ALUM.	Adjustable Aggregate Above Finished Floor Aluminum	MAT. M.B. M.C.	Material Machine Bolt Medicinal Cabinet	FIRE PREVENTION	2019 CALIFORNIAN FIRE CODE (CFC) AND LOCAL ORDINANCE
MATCH LINE		& ANG./< APPROX.	And Angle Approximate	MD. MECH. MEMB.	Medium Mechanical Membrane	ENERGY ACCESSIBILITY:	2019 CALIFORNIA T-24- CALIFORNIA ENERGY CODE MORE STRINGENT OF CALIFORNIA BUILDING CODE OR APPLICABLE FEDERAL LAWS
PROPERTY LINE		ARCH. ASPH. @	Architectural Asphalt At	MET. MFR. MH.	Metal Manufacturer Manhole		CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) CITY OF SANTA CLARA, CA MUNICIPAL CODE
DIM. @ F.O.S./STRUC.		B BKG. BD. BITUM.	Backing Board Bituminous	MIN. MIR. MISC.	Minimum Mirror Miscellaneous		
DIM. @ CENTER LINE DIM. @ F.O.F./CLEAR		BLDG. BLKG. BM.	Building Blocking Beam	M.O. MTD. MUL.	Masonry Opening Mounted Mullion	S	SHEET INDEX:
(N) OR REQUIRED	+9'-0"	B.O. BOT. B.U.	Bottom of Bottom Built-up	N (N) N.I.C.	North New Not In Contract	<u>GENERA</u>	<u>L</u>
(E) ELEVATION POINT	+9'-0"	C CAB. C.BA. C.B.	Cabinet Carpet Base Catch Basin	NO./# NOM. N.T.S.	Number Nominal Not to Scale	G0.0 COVER S	
	A	CEM. CER. C.I. C.J.	Cement Ceramic Cast Iron Construction/Control Joint	O 0/ 0.A. 0.C.	Over Overall On Center	ARCHITE	S AND MATERIALS
COLUMN GRID	1	Ç CLG. CLKG.	Center Line Ceiling Caulking	O.D. O.H. O.F.D. OBS.	Outside Diameter (Dim.) Opposite Hand Overflow Drain Obscure		
		CLO. CLR. C.O.	Closet Clear Clean out	OFF. OPNG. OPP.	Office Opening Opposite	A1.1 LEVI	E PLAN EL 1 FLOOR PLAN
DETAIL NO. SHEET NO.	4 A6	COL. CONC. CONN.	Column Concrete Connection	P.C. P.G.B.	Painted Concrete Painted Gypsum Board	A1.3 ROC	EL 2 FLOOR PLAN OF PLAN VATIONS - A UNITS
WALL SECTION NO.	7	CONSTR. CONT. CONTR. CORR.	Construction Continuous Contractor Corridor	PKG. PRCST. PL.	Parking Pre-Cast Plate	A2.1 ELE	VATIONS - B UNITS E SECTIONS
SHEET NO.	A8/	CPT. C.P. C.SQ.	Carpet Cement Plaster Carpet Square	P.LAM. PLAS. PLYWD.	Plastic Laminate Paster Plywood	CIVIL	
BUILDING SECTION	9 A2	CTSK. C.M.U./CMU CNTR.	Countersink Conc. Masonry Unit Counter	PR. PT. P.T.D.	Pair Point Paper Towel Dispenser		
	1	C.T. CTR. C.W.	Ceramic Tile Center Curtain Wall	P.T.D/R. PTN.	Combination Paper Towel Dispenser & Receptacle Partition	C2 DEM	E SHEET OLITION PLAN AND POST DEVELOPMENT PLAN
INTERIOR ELEVATION 4	$\begin{pmatrix} 9 \\ A2 \end{pmatrix} $ 2	D DAT. DBL. DEPT.	Datum Double Department	P.T.R. Q QTY. Q.T.	Paper Towel Receptacle Quantity	C4 STO	RM WATER CONTROL PLAN AND SECTIONS ADING AND DRAINAGE PLAN
DOOR NO.	3 /#	D.F. DET. DIA.	Drinking Fountain Detail Diameter	D R.	Quarry Tile Riser	C6 BUIL	LITY PLAN
DOOR TYPE	Ä	DIM. DISP. DKG.	Dimension Dispenser Decking	RAD. R.B4 R.B6 R.D.	Radius 4" Rubber Top Set Base 6" Rubber Top Set Base Roof Drain	C8 ERO	SION CONTROL PLAN SION CONTROL DETAILS
WINDOW NO.	5	DN. D.O. D.P.	Down Door Opening Dimension Point	REF. REFR. REINF.	Reference Refrigerator Reinforced		TATIVE MAP TATIVE MAP - EXISTING SITE CONDITIONS
REVISION NO.	<u>/</u> 3	DR. DWR. DS. D.S.P.	Door Drawer Downspout Dry Standpipe	REQ. RESIL. R.F.	Required Resilient Resilient Flooring	LANDSCA	APE
ROOM NAME ROOM NO.	ENTRY 100	DWG.	Drawing East	RFG. RGTR. RHWS.	Roofing Register Round Head Wood Screw	L1.1 PRE	LIMINARY PLANTING PLAN
EARTH		(E) EA. E.J. EL./ELEV.	Existing Each Expansion Joint Elevation	RM. RND. R.O. RWD.	Room Round Rough Opening Redwood		E INVENTORY PLAN
POROUS FILL/		ELEC. ELEV. EMER.	Electrical Elevator Emergency	R.W.L.	Rain Water Leader South	ELECTRI	<u>CAL</u>
GRAVEL/ROCK	, , , , , , , , , , , , , , , , , , ,	ENCL. E.P. EQ.	Enclosure Electrical Panelboard Equal	S S.C. S.C.D. S.CONC.	Solid Core Seat Cover Dispenser Sealed Concrete		ELINE DIAGRAM, PANEL & FAULT SCHEDULES
SAND/MORTAR/ CEMENT PLASTER		EQUIP. E.W.C. EXPO. EXP.	Equipment Electrical Water Cooler Exposed Expansion	SCHED. S.D. SECT. SH.	Schedule Soap Dispenser Section Shelf	E1.01 LUM E2.00 SITE	IINAIRE SCHEDULE E PLAN
CONCRETE	44	EXT. F.A.	Exterior Fire Alarm	SHR. SHT. SIM.	Shower Sheet Similar		ICAL UNIT POWER PLAN ICAL UNIT POWER PLAN
MASONRY WALL		F.D. FDN.	Furnished by Owner Floor Drain Foundation	SHT.MET. SM. S.N.D.	Sheet Metal Small Sanitary Napkin Dispenser	<u>MECHAN</u>	ICAL
BRICK/BRICK VENEER/		F.E. F.E.C. F.F. F.G.	Fire Extinguisher Fire Extinguisher Cab. Finish Floor Fixed Glass	SD.INSUL. SPEC. SQ.	Sound Insulation Specification Square	M0.0 LEG	END, GENERAL NOTES, DRAWINGS INDEX
PAVER		F.H.C. FHWS. FIN.	Fire Hose Cabinet Flat Head Wood Screw Finish	S.S.P. S.S.D. S.SK. S.STL.	See Structural Plans See Structural Drawings Service Sink Stainless Steel	M0.3 MEC	DJECT NOTES CHANICAL SCHEDULES
QUARRY/ CERAMIC TITLE		FL. FLASH. FLUOR.	Floor Flashing Fluorescent	STA. STD. STL.	Statilless Steel Station Standard Steel	M2.1 HVA	C PLAN - FIRST FLOOR C PLAN - SECOND FLOOR C PLAN - ROOF
PLYWOOD		F.O.C. F.O.F. F.O.M. F.O.S.	Face of Concrete Face of Finish Face of Masonry	STOR. STRUC. SUSP.	Storage Structure/Structural Suspended	M7.0 TITL	E 24 COMPLIANCE FORMS E 24 COMPLIANCE FORMS
ROUGH WOOD		FRPF. FR. FRG.	Face of Studs Fireproof Frame Framing	S.V. SYM. SYS.	Sheet Vinyl Symmetrical System	M7.2 TITL	E 24 COMPLIANCE FORMS
		F.S. F.S.R. FT.	Full Size Fire Sprinkler Riser Foot or Feet	T TRD. T.B. T.C.	Tread Towel Bar Top of Curb	PLUMBIN	<u>IG</u>
FINISH WOOD		FTG. FURR. FUT./(F)	Footing Furring Future	TEL. TEMP. TER. T.&G.	Telephone Temporary Terrazzo Tongue & Groove		END, NOTES, AND DRAWING INDEX ES AND CALCULATIONS
METAL		G GALV. G.B.	Gauge Galvanized Grab Bar	T.G.B. THK. T.O.	Textured Gypsum Board Thick Top of	P002 SCH P200 UND	EDULES AND CALCULATIONS DERSLAB WASTE AND VENT PLAN
GYPSUM BOARD		G.CONC. GL. GND. GR.	Gunite Concrete Glass Ground Grade	T.O.C. T.P.D. T.V.	Top of Concrete Toilet Paper Dispenser Television Top of Wall	P202 LEVI	EL 1 WASTE & VENT PLAN EL 2 WASTE & VENT PLAN OF PLUMBING PLAN
PROTECTION BOARD		GYP. HB. H.C.	Gypsum Hose Bibb Hollow Core	T.O.W. TYP.	lop of Wall Typical Unfinished	P301 LEVI P302 LEVI	EL 1 SUPPLY PLAN EL 2 SUPPLY PLAN
ACOUSTICAL TILE		H.D. HDCP. HDWD.	Hot Dipped Handicapped Hardwood	U U.O.N. UR.	Unless Otherwise Noted Urinal	P501 SUP	STE & VENT RISER DIAGRAM PLY RISER DIAGRAM
		HDWR. H.M. HORIZ. HR.	Hardware Hollow Metal Horizontal Hour	VCR VCT VERT.	Vinyl Carpet Reducer Vinyl Composition Tile Vertical	P700 DETA P701 DETA	
GLASS WATERPROOFING/		HGT. I.D. IN.	Height Inside Diameter Inch or Inches	VEST. V.T. V.W.C.	Vestibule Vinyl Tile Vinyl Wall Convering		
FLASHING		IN. INCL. INSUL. INT.	inch of inches Include Insulation Interior	W W/ W.C.	West With Water Closet		
BLANKET OR BATT INSULATION		J JAN.	Janitor	WD. WDW.	Wood Window		

CHEENEY STREET TOWNHOUSES



PROJECT TEAM:

1190 PARK AVE

SAN JOSE, CA 95126

MARUTI BUILDERS, INC. 859 ALISAL CT. MILPITAS, CA 95051

T. (408) 431-7003 F. 000-000-000 maruti@builders.com

LC ENGINEERING

SAN JOSE, CA 95112

nle@lcengineering.net

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NINH LE

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598 E SANTA CLARA STREET

ALI ABIANI

SAUL FLORES/JUAN C. NAVARRO T. (408) 710-6725/(408)205-9812 saul@groundzerosj.com

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LANDSCAPE ARCHITECT: GROUND ZERO CONSTRUCTION, INC.

SAN JOSE, CA 95120 SAUL FLORES T. (408) 680-2929 F. 000-000-000 saul@groundzerosj.com

7076 KINDRA HILL DRIVE

MEP ENGINEERING:

ROBISON ENGINEERING, INC 19401 40TH AVENUE COURT LYNWOOD, WA 98036

JON ROBISON T. 206.364.3343 jrobison@robisonengineering.com

PROJECT SUMMARY AND SCOPE OF WORK:

THE PROJECT SITE IS A 22,500 SQUARE FEET COMBINED LOTS IN THE AGNEW'S VILLAGE NEIGHBORHOOD OF THE CITY OF SANTA CLARA. ADJACENT PARCELS 104-12-025 AND 104-12-026 FROM THE SITE WHICH HAS A150' LONG WESTERN FRONTAGE ALONG CHEENEY STREET

THE 150' X 150' PROJECT SITE IS CURRENTLY VACANT WITH NO EXISTING BUILDINGS OR INFRASTRUCTURE, UTILITIES RUN BELOW CHEENEY STREET, WITH ABOVE GROUND POWER LINES COLINEAR WITH THE SIDEWALK.

THE PROPOSED PROJECT RECEIVED EARLY CONSIDERATION APPROVAL FOR REASSIGNMENT OF USE DESIGNATION FROM VERY LOW DENSITY RESIDENTIAL TO LOW DENSITY RESIDENTIAL, ALLOWING FOR UP TO 9 UNITS ON THIS HALF ACRE SITE. THE SCHEME INTRODUCES 9 TOTAL DWELLING UNITS; EACH UNIT CONTAINS A 2-CAR GARAGE AND DRIVEWAY ACCESS VIA A PERMEABLE PAVED SURFACE LOT.

THE PROPOSED TOWNHOMES WOULD CONTAIN APPROXIMATELY 15,520 TOTAL SQUARE FEET OF INTERIOR HABITABLE SPACES, EACH OWNERSHIP UNIT AT ROUGHLY 1,724 SQUARE FEET IN AREA. EACH DWELLING IS TWO STORY AND HAS 3 BEDROOMS AND 2-1/2 BATHS.

DDO IEOT DATA MATDIX

GUEST PARKING SPACES PROVIDED: 2

PROJECT DATA MATE	RIX:	
	AREA	LOT COVERAGE
LOT	22,500 SF	
LEVEL 1 (SITE TOTAL)	10,121 SF	44.9%
LEVEL 2 (SITE TOTAL)	10,134 SF	-
BUILDING TOTAL	20,255 SF	
PAVING (PERMEABLE)	6,300 SF	28%
IMPERMEABLE SURFACE (PAVING & BUILDING SLAB)	12,187 SF	54%
LANDSCAPE	4,016 SF	17%
GUEST PARKING SPACES REQUIRED: 2		

MFA

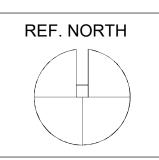
ENGINEERS & ASSOCIATES

370 GRAND PARK CIRCLE SAN JOSE, CA 95136 Tel: (408) 509-3461 aliabiani@sbcglobal.net



12/19/2022 DATE: PROJECT No. 39-071322

COVER SHEET



(C)2022

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PINK CRAPE MYRTLE



TUPELO



YEW PINE

LITTLE GEM MAGNOLIA



AMBER MONROVIA



ELIJAH BLUE FESCUE



SISKIYOU BLUE FESCUE



CEMENT PLASTER - PAINTED LIGHT TAN



BOARD AND BATTEN SIDING - PAINTED LIGHT GREY



VIEW 2 FACING TYPE 'B' UNITS



MFA

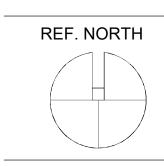
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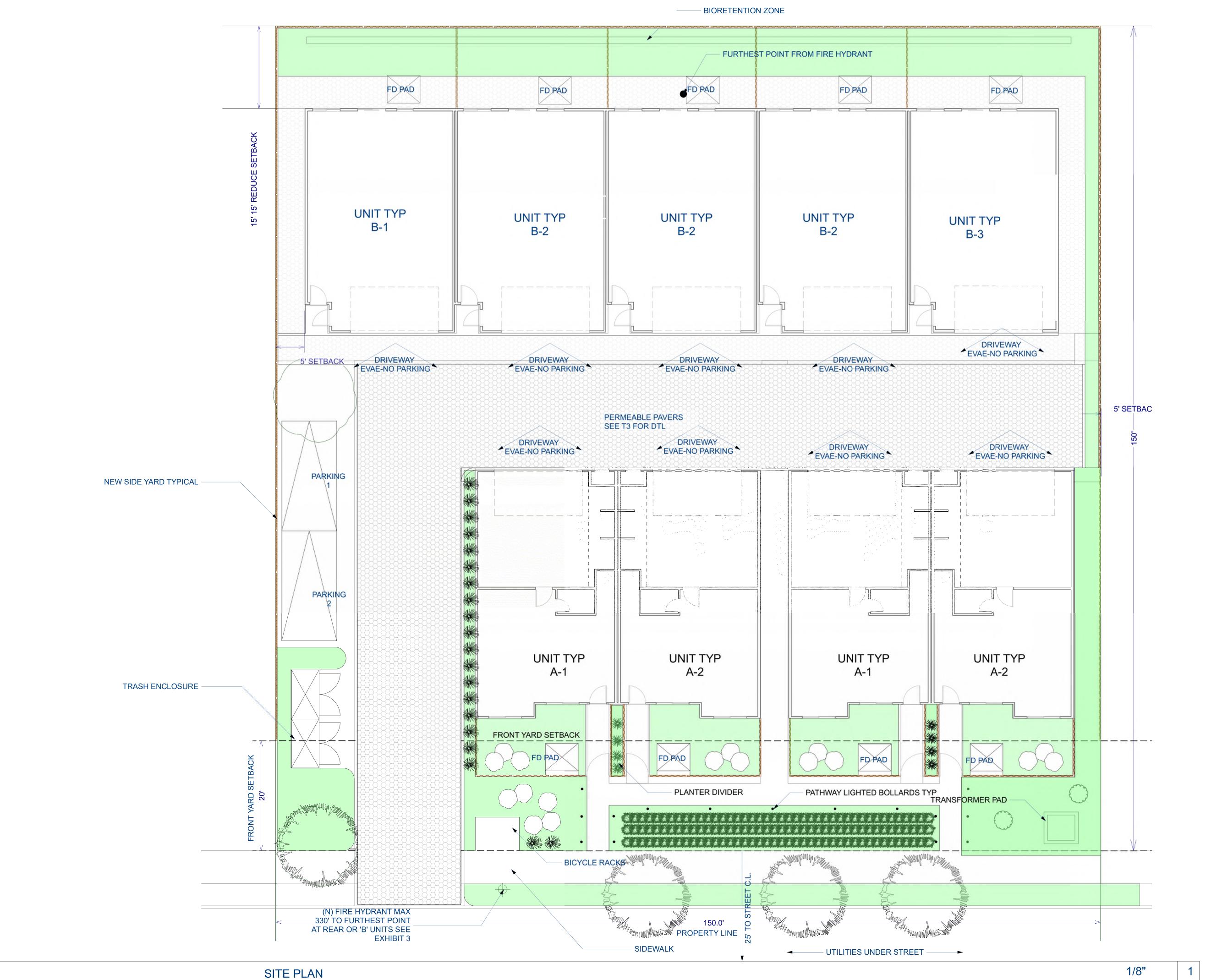


DATE:	12/17/2022		
PROJECT No.	39-071322		

3D VIEWS AND **MATERIALS**



G1.0



MFA

ENGINEERS & ASSOCIATES

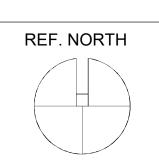
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HEENEY ST TOWNHOUSES

DATE:	12/15/2022
PROJECT No.	39-071322

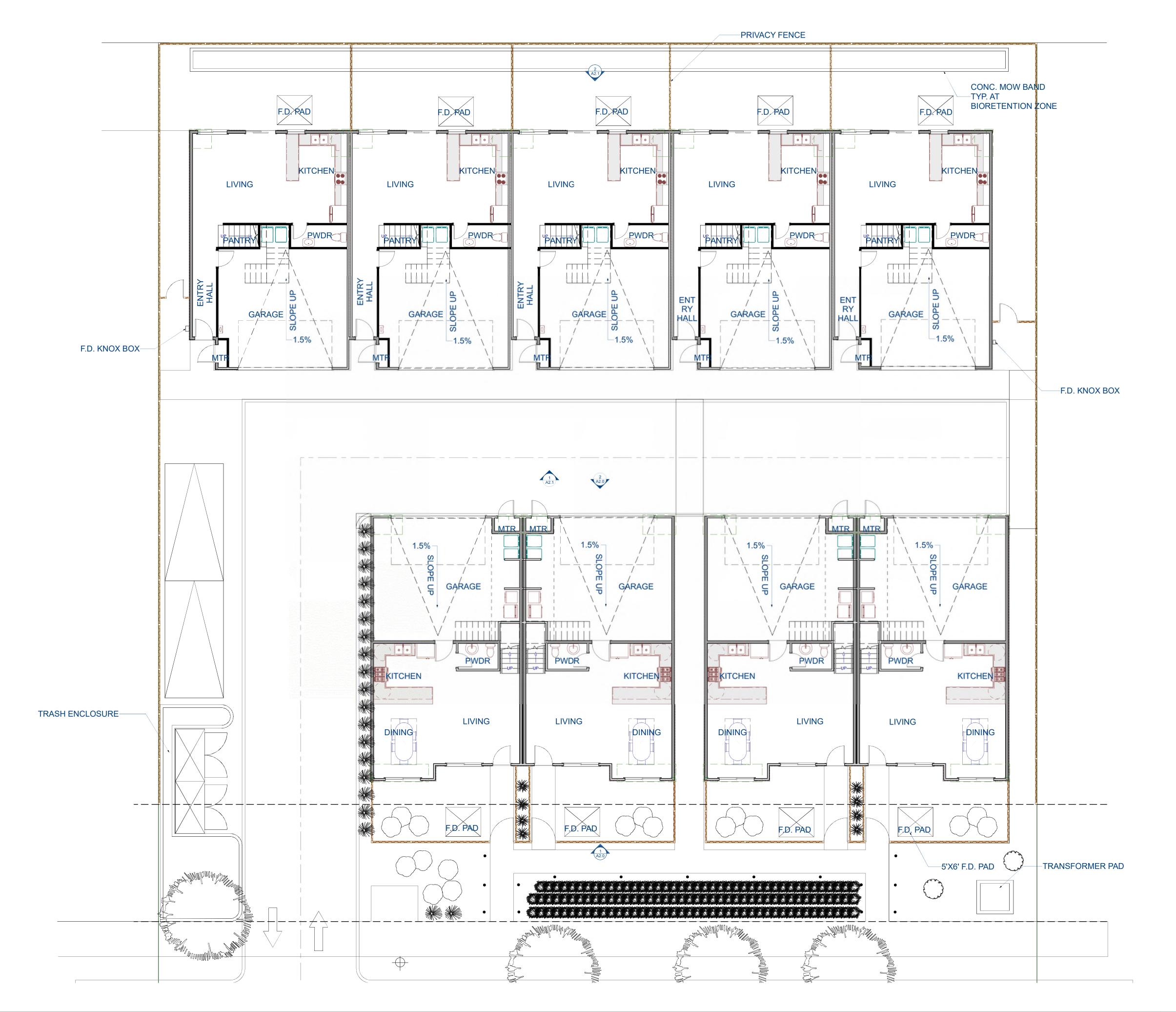
SITE PLAN



A1.0

C)2022

MFA CONSTRUCTION AND ENGINEERING





ENGINEERS & ASSOCIATES

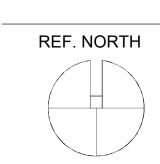
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SHEENEY ST TOWNHOUSES

DATE:	12/16/2022
PROJECT No.	39-071322

LEVEL ONE



A1.1

C)2022

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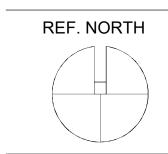


TOWNHOUSES

TENEY ST TOWN

DATE:	12/15/2022
PROJECT No.	39-071322

LEVEL TWO



A1.2

C)2022

MFA CONSTRUCTION AND ENGINEERING

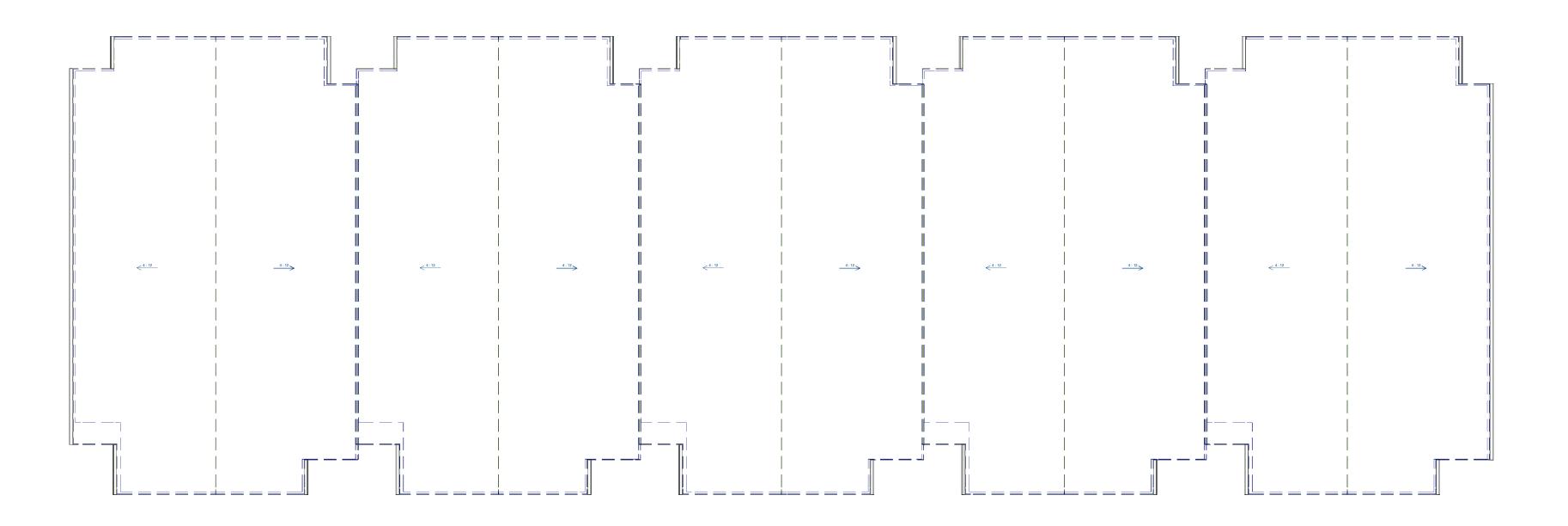


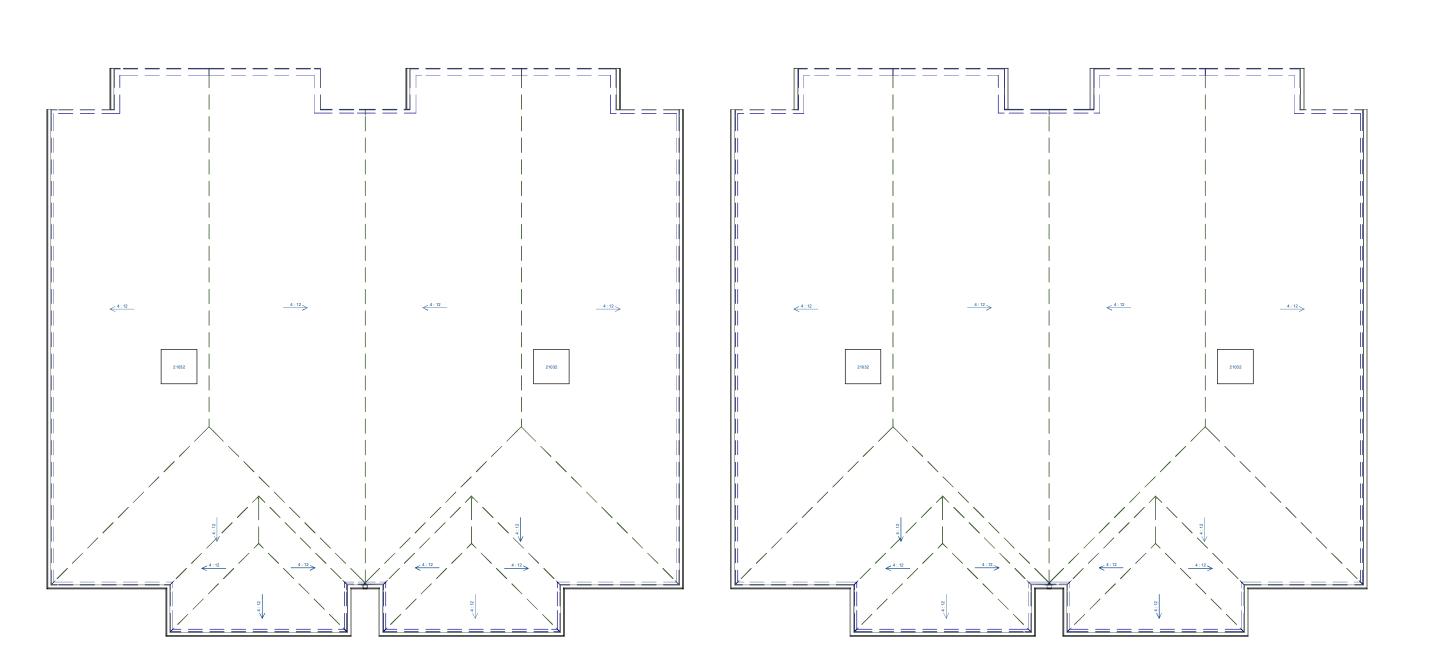


1 A2.0

LEVEL TWO

1/8"







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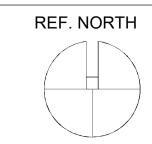
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ENEY ST TOWNHOUSI

DATE:	12/15/2022
PROJECT No.	39-071322

ROOF PLAN



A1.3

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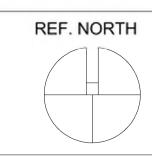
REAR ELEVATION UNITS 'A'

CHEENEY ST TOWNHOUSES

PRESIDENTIAL ASPHALT SHINGLES
TO T.O.R.

DATE:	12/15/2022
PROJECT No.	39-071322

ELEVATIONS UNITS 'A'



A2.0

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- DARK GREY BOARD AND BATTEN



- 3-COAT STUCCO OVER 2-LAYERS OF GRADE 'D' BUILDING PAPER ACRYLIC SMOOTH FINISH

REAR ELEVATION UNITS 'B'

3/16



3-COAT STUCCO OVER 2-LAYERS OF GRADE
- 'D' BUILDING PAPER ACRYLIC SMOOTH **FINISH**

DATE:

PROJECT No.

REF. NORTH A2.1

ELEVATIONS

UNITS 'B'

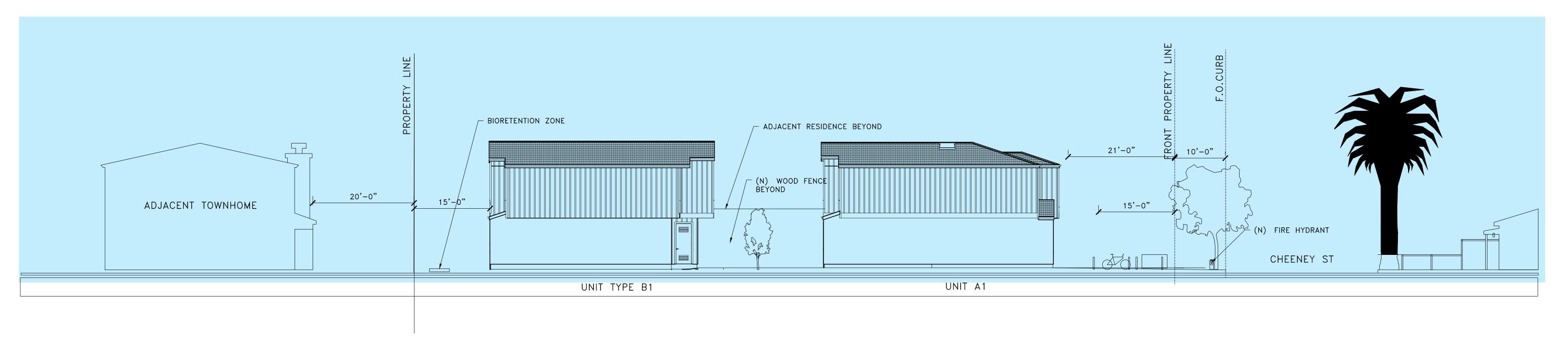
C2022

MFA CONSTRUCTION AND ENGINEERING

12/15/2022

39-071322

ADJACENT RESIDENCE AND OUTSULDING ADJACENT RESIDENCE ADJACENT RESIDENCE RESIDENCE



MFA

ENGINEERS & ASSOCIATES
370 GRAND PARK CIRCLE
SAN JOSE CA, 95136
TEL: (408) 509-3464
alialbiani@sbcglobal.net

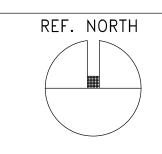


CHEENEY ST TOWNHOUSES 4249 CHEENEY ST. SANTA CLARA, CA 95054

	REVISION	DATE
1		
2		
<u>3</u>		

DATE:	August 23, 2022
PROJECT No.	10-042122

SITE SECTIONS



A3.0

SITE SECTION N-S

3/32"

GRADING AND DRAINAGE IMPROVEMENTS

STANDARD GRADING NOTES

- PRIOR TO COMMENCEMENT OF ANY EARTHWORK/GRADING ACTIVITIES, THE PERMITTEE SHALL ARRANGE A PRE-CONSTRUCTION ION MEETING. THE MEETING SHALL INCLUDE THE CITY OF WATSONVILLE GRADING INSPECTOR, THE GRADING CONTRACTOR AND THE PROJECT SOILS ENGINEER. THE PERMITTEE OR REPRESENTATIVE SHALL ARRANGE THE PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTHWORK / GRADING ACTIVITIES.
- APPROVAL OF THIS PLAN APPLIES ONLY TO THE EXCAVATION, PLACEMENT AND COMPACTION OF NATURAL EARTH MATERIALS. THIS APPROVAL DOES NOT CONFER ANY RIGHTS OF ENTRY TO EITHER PUBLIC PROPERTY OR THE PRIVATE PROPERTY OF OTHERS. APPROVAL OF THIS PLAN ALSO DOES NOT CONSTITUTE APPROVAL OF ANY IMPROVEMENTS. PROPOSED IMPROVEMENTS ARE SUBJECT TO REVIEW AND APPROVAL BY THE RESPONSIBLE AUTHORITIES AND ALL OTHER REQUIRED PERMITS SHALL BE OBTAINED.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO IDENTIFY, LOCATE AND PROTECT ALL UNDERGROUND FACILITIES.
- THE PERMITTEE SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHTS—OF—WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- ALL GRADING AND EARTHWORK ACTIVITIES SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH STANDARDS ESTABLISHED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT FOR AIRBORNE
- ALL WATER WELL LOCATIONS ON SITE SHALL BE MAINTAINED OR ABANDONED ACCORDING TO CURRENT REGULATIONS ADMINISTERED BY THE CITY WATER DISTRICT.
- THIS PLAN DOES NOT APPROVE REMOVAL OF TREES. APPROPRIATE TREE REMOVAL PERMITS SHALL BE OBTAINED FROM THE COMMUNITY DEVELOPMENT DEPARTMENT. ANY REQUIRED TREE PROTECTION MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- THE PROJECT CIVIL ENGINEER: LC ENGINEERING, 598 E SANTA CLARA STREET #270, SAN JOSE, CA 95112 HAS DESIGNED THIS PROJECT TO COMPLY WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED BY: ___
- ALL GRADING AND EARTHWORK ACTIVITIES SHALL CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS ALL GRADING AND EARTHWORK ACTIVITIES SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY GRADING OR EARTHWORK ACTIVITIES. UNOBSERVED OR UNAPPROVED WORK SHALL BE REMOVED AND REPLACED UNDER OBSERVATION OF THE PROJECT SOILS ENGINEER.
- 10. ALL CONSTRUCTION SITES ARE TO BE WINTERIZED WITH APPROPRIATE EROSION CONTROL MEASURES IN PLACE FROM OCTOBER 15TH TO APRIL 15TH OF EACH YEAR.
- 11. GRADING ACTIVITIES ARE ONLY ALLOWED MONDAY THROUGH FRIDAY, 7:30 AM TO 6:00 PM.
- 12. ALL GRADING SHALL COMPLY WITH THE CITY OF SANTA CLARA STANDARD SPECIFICATIONS, AND CHAPTER 18 AND APPENDIX 33 OF THE UNIFORM BUILDING 11/26/2018.
- 13. THE DESIGN SHOWN HEREON IS NECESSARY AND REASONABLE AND DOES NOT RESTRICT ANY HISTORIC DRAINAGE FLOWS FROM ADJACENT PROPERTIES NOR INCREASE DRAINAGE TO ADJACENT PROPERTIES.
- 14. THE EXISTENCE AND APPROXIMATE LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THESE PLANS WERE DETERMINED BY THE ENGINEER OF WORK BY SEARCHING THE AVAILABLE PUBLIC RECORDS. THEY ARE SHOWN FOR GENERAL INFORMATION ONLY.
- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY UTILITY LOCATIONS WITH THE APPROPRIATE AGENCY. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES, STRUCTURES AND ANY OTHER IMPROVEMENTS FOUND AT THE WORK SITE.
- 16. ALL ROOF DOWNSPOUTS TO BE DIRECTED AWAY FROM HOME TO SUITABLE DRAINAGE FACILITY VIA DOWNSPOUTS, PAVEMENT AND COLLECTION PIPES THAT DISCHARGE DIRECTLY TO THE STORM DRAIN SYSTEM.
- 17. EROSION CONTROL PLANTING AND OTHER SILT RETENTION OR EROSION CONTROL MEASURES MAY BE REQUIRED IN ALL GRADED AREAS. SEE LANDSCAPE PLAN, IF APPLICABLE, FOR DETAILS OF PLANTING.
- DRAINAGE, INCLUDING ALL ROOF AND PATIO DRAINS, SHALL BE DIRECTED AWAY FROM THE STRUCTURE. IT SHALL BE THE OWNER'S AND CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE DRAINAGE SYSTEM FACILITIES SHOWN HEREON ARE KEPT CLEAR OF OBSTRUCTIONS AND THE CONTRACTOR SHALL PROVIDE UNDERGROUND PIPES AND REGRADE AREAS THAT WILL NOT DRAIN AFTER FINAL GRADING. THE GROUND ADJACENT TO THE BUILDING SHALL SLOPE AWAY WITH A MINIMUM SLOPE OF 2%.
- 19. THIS PLAN IS A PART OF PROJECT PLANS. SEE ARCHITECT AND LANDSCAPE PLANS, IF APPLICABLE, FOR DETAILS AND DIMENSIONS. FENCES AND WALLS ARE NOT A PART OF THESE PLANS.
- 20. SOIL ENGINEER TO PROVIDE FINAL LETTER OF INSPECTION AT COMPLETION OF THE GRADING IN ACCORDANCE WITH APPENDIX J. 2016 OF THE UNIFORM BUILDING CODE.
- 21. CONTRACTOR SHALL GRADE EVENLY BETWEEN SPOT ELEVATIONS SHOWN.
- 22. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE O.S.H.A. REGULATIONS.
- 23. CONTRACTOR TO VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN CONSTRUCTION PRIOR TO ANY SITE WORK. SHOULD DISCREPANCIES EXIST BETWEEN THE ACTUAL ELEVATIONS AND LOCATIONS OF EXISTING STORM DRAIN CONNECTIONS AND THOSE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER OF WORK BEFORE ADJUSTING THE DESIGN.
- 24. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY, SEWER AND STORM DRAIN LINES WHERE THEY ARE TO BE CROSSED ABOVE OR BELOW BY THE NEW FACILITY BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ASSURE THAT THERE IS SUFFICIENT CLEARANCE. HE OR SHE SHALL CALL THE ENGINEER OF WORK REGARDING POTENTIAL CONFLICTS BEFORE FIELD WORK BEGINS.
- 25. EARTHWORK QUANTITIES SHOWN ON THESE PLANS ARE ONLY TO BE USED TO DETERMINE THE AMOUNT OF THE GRADING PERMIT.
- 26. ADJUSTMENTS TO BUILDING PAD ELEVATIONS OR PARKING LOT GRADES TO ACHIEVE EARTHWORK BALANCE SHALL BE MADE ONLY WITH APPROVAL OF THE ENGINEER.
- 27. SOIL ENGINEER WILL NOT DIRECTLY CONTROL THE PHYSICAL ACTIVITIES OF THE CONTRACTOR OR ANY SUBCONTRACTORS OF THE CONTRACTOR OR SUBCONTRACTOR'S WORKMEN'S ACCOMPLISHMENT OF WORK ON THE PROJECT. CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR WORKING CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 28. DURING THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL KEEP THE PREMISES OCCUPIED BY HIM IN A NEAT AND CLEAN CONDITION, DISPOSING OF REFUSE IN A SATISFACTORY MANNER AS OFTEN AS DIRECTED, OR AS MAY BE NECESSARY SO THAT THERE SHALL AT NO TIME BE ANY UNSIGHTLY ACCUMULATION OF RUBBISH.
- 29. IF HUMAN REMAINS ARE DISCOVERED DURING THE CONSTRUCTION, UNLESS THE CORONER HAS NOTIFIED THE PERMITTEE IN WRITING THAT THE REMAINS DISCOVERED HAVE BEEN DETERMINED NOT TO BE NATIVE AMERICAN, THE PERMITTEE SHALL NOTIFY ALL PERSONS ON THE COUNTY'S NATIVE AMERICAN NOTIFICATION LIST OF SUCH DISCOVERY. SUCH NOTIFICATION SHALL BE SENT BY FIRST CLASS U.S. MAIL WITHIN SEVEN (7) DAYS OF THE DATE ON WHICH THE PERMITTEE NOTIFIED THE CORONER AND SHALL STATE THAT THE CORONER HAS BEEN NOTIFIED IN ACCORDANCE WITH CALIFORNIA STATE LAW.
- 30. ANY ABANDONED UNDERGROUND PIPES EXPOSED DURING CONSTRUCTION SHALL BE REMOVED, ADEQUATELY PLUGGED, OR A COMBINATION OF BOTH IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY/COUNTY.
- 31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES. FOR LOCATION OF UNDERGROUND UTILITIES, OR FOR EMERGENCY ASSISTANCE, CALL: UNDERGROUND SERVICE ALERT (USA)
- 32. THE CONTRACTOR SHALL ADVISE THE OWNER OF APPROPRIATE MAINTENANCE PROCEDURES OF DRAINAGE SYSTEM.

- 33. ON GRADED SITES, THE TOP OF ANY EXTERIOR FOUNDATION SHALL EXTEND ABOVE THE ELEVATION OF 1. CONSTRUCTION SITE SHALL BE ENCLOSED BY 6' OPAQUE FENCE AT ALL TIMES DURING THE STREET GUTTER AT POINT OF DISCHARGE OR THE INLET OF AN APPROVED DRAINAGE DEVICE A MINIMUM OF 12 INCHES (305 mm) PLUS 2%. THE BUILDING OFFICIAL MAY APPROVE ALTERNATE ELEVATIONS, PROVIDED IT CAN BE DEMONSTRATED THAT REQUIRED DRAINAGE TO THE POINT OF DISCHARGE AND AWAY FROM THE STRUCTURE IS PROVIDED AT ALL LOCATIONS ON THE SITE.
- COMPLIANCE WITH THE LOCAL NON-POINT SOURCE ORDINANCE CONCERNING DISCHARGE OF MATERIALS TO THE STORM DRAINAGE SYSTEM SHALL BE THE RESPONSIBILITY OF THE GRADING CONTRACTOR.
- 35. ALL CONSTRUCTION SHALL COMPLY WITH SECTION 24 OF THE STATE OF CALIFORNIA ADMINISTRATIVE CODE AND CHAPTERS 10 AND 11 OF THE 2016 UNIFORM BUILDING CODE.

DUST CONTROL

- ALL EXPOSED OR DISTURBED SOIL SURFACES SHALL BE WATERED AS NECESSARY, BUT NOT LESS THAN TWICE DAILY TO CONTROL DUST.
- 2. AREAS OF DIGGING AND GRADING OPERATIONS SHALL BE CONSISTENTLY WATERED TO CONTROL DUST.
- GRADING OR OTHER DUST-PRODUCING ACTIVITIES SHALL BE SUSPENDED DURING PERIODS OF HIGH WIND 8. PRIOR TO REQUESTING A FOUNDATION INSPECTION BY THE CITY, THE GEOTECHNICAL ENGINEER WHEN DUST IS READILY VISIBLE IN THE AIR.
- 4. STOCKPILES OF SOIL, DEBRIS, SAND, OR OTHER DUST-PRODUCING MATERIALS SHALL BE WATERED OR
- THE CONSTRUCTION AREA AND THE SURROUNDING STREETS SHALL BE SWEPT (NO WATER) AS NECESSARY. BUT NOT LESS THAN TWICE DAILY.

- TREE SIZES AND TYPES ARE APPROXIMATE AND SHOULD BE VERIFIED BY A CERTIFIED ARBORIST.
- THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THIS MAP WERE BASED ON MARKINGS MADE IN THE FIELD BY OTHERS. THERE MAY BE OTHER UNDERGROUND UTILITIES THAT EXIST ON THIS SITE THAT ARE NOT SHOWN ON THIS PLAN. CLEARLY DEFINED MARKINGS THAT EXISTED AT THE TIME OF THE SURVEY WERE LOCATED AND ARE SHOWN ON THIS PLAN.
- PRIOR TO REQUESTING A FOUNDATION INSPECTION BY THE CITY, THE GEOTECHNICAL ENGINEER OR CIVIL ENGINEER WHO PREPARED THE SOIL INVESTIGATION SHALL PROVIDE A FIELD REPORT (IN WRITING) WHICH SHALL STATE THE FOLLOWING:
 - A. THE BUILDING PAD WAS PREPARED AND COMPACTED IN ACCORDANCE WITH THE SOIL REPORT AND SPECIFICATIONS.
 - B. THE FOUNDATION AND/OR PIER EXCAVATION, DEPTH AND BACKFILL MATERIALS, AND DRAINAGE (IF APPLICABLE) SUBSTANTIALLY CONFORM TO THE SOIL REPORT AND APPROVED PLANS.
- PRIOR TO FINAL INSPECTION FOR ANY BUILDING OR STRUCTURE, THE GEOTECHNICAL ENGINEER OR CIVIL ENGINEER WHO PREPARED THE SOIL INVESTIGATION SHALL ISSUE A FINAL REPORT STATING THE COMPLETED PAD, FOUNDATION, FINISH GRADING, AND ASSOCIATED SITE WORK SUBSTANTIALLY CONFORM TO THE APPROVED PLANS, SPECIFICATIONS, AND INVESTIGATION

◆ BENCHMARK B-8A

ELEVATION = 13.77'. LOCATED AT AGNEW ROAD, SOUTH SIDE, OPPOSITE GARRITY, CHISELED CROSS ON TOP OF CATCH BASIN HOOD.

BASIS OF BEARINGS

THE BEARINGS SHOWN ON THIS MAP ARE BASED ON THE CENTERLINE OF CHEENEY STREET, AS FOUND MONUMENTED AS N28°14'30"W SHOWN ON PARCEL MAP, RECORDED IN BOOK 476 OF MAPS, AT PAGE 37, SANTA CLARA COUNTY RECORDS.

SCOPE OF WORK

- 1. DEMOLISH EXISTING DRIVEWAY, BRICKS, SHED AND REMOVE TREES
- 2. REMOVE EXISTING CURB & GUTTERS, DRIVEWAY APPROACH AND SIDEWALK, UTILITIES. RELOCATE EXISTING POWER POLES WITHIN RIGHT OF WAY
- 3. 9 TOWNHOUSE DEVELOPMENT AND 10 LOT SUBDIVISION
- 4. GRADE DRIVEWAY & HOUSES; INSTALL DRAINAGE FACILITIES, EROSION AND SEDIMENT CONTROL, DRIVEWAY AND DRIVEWAY APPROACH, DRAINAGE IMPROVEMENTS; & SEED ALL DISTURBED AREAS.
- 5. CONSTRUCT CURB & GUTTERS, DRIVEWAY APPROACH AND SIDEWALK WITHIN
- 6. INSTALL UTILITY LINES AND SERVICES ON-SITE AND WITHIN RIGHT OF WAY
- 7. THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF THE WORK PROPOSED ON THE EROSION CONTROL PLAN. THE ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF THE EROSION CONTROL PLANS TO PREVENT ILLICIT DISCHARGES FROM THE SITE DURING CONSTRUCTION

PROJECT NOTES:

- CONSTRUCTION.
- 2. NO CONSTRUCTION MATERIAL, EQUIPMENT, PORTABLE TOILETS, TRASH CONTAINERS, OR DEBRIS
- SHALL BE PLACED IN THE PUBLIC RIGHT-OF-WAY. 5. A TRASH CONTAINER SHALL BE MAINTAINED ON SITE AT ALL TIMES AND DEBRIS ON SITE WHICH COULD OTHERWISE BLOW AWAY, SHALL BE REGULARLY COLLECTED AND PLACED IN
- 4. ALL CONSTRUCTION DEBRIS (WOOD SCRAPS AND OTHER DEBRIS, WHICH CANNOT BLOW AWAY) SHALL BE PILED WITHIN THE PROPERTY LINES OF THE PROJECT IN A NEAT AND SAFE MANNER. 5. THE PROJECT SHALL HAVE A SIGNAGE VIEWABLE FROM THE PUBLIC STREET THAT INDICATES THE HOURS OF CONSTRUCTION AS: MON- FRI FROM 7:30 AM TO 6 PM, SATURDAYS FROM
- 6. OBTAIN AN ENCROACHMENT PERMIT FROM PUBLIC WORKS PRIOR TO THE START OF ANY DRIVEWAY APPROACH DEMOLITION OR CONSTRUCTION AT THE STREET. CONTACT PUBLIC WORKS ENGINEER FOR INFORMATION REGARDING OBTAINING AN ENCROACHMENT PERMIT.
- 7. ALL ELECTRIC LINES, COMMUNICATION LINES AND APPURTENANCES, INCLUDING ALL PUBLIC UTILITY, CATV AND TELEGRAPH SYSTEMS, SHALL BE LOCATED AND INSTALLED UNDERGROUND. OR CIVIL ENGINEER WHO PREPARED THE SOIL INVESTIGATION SHALL PROVIDE A FIELD REPORT (IN WRITING) WHICH SHALL STATE THE FOLLOWING:
 - THE BUILDING PAD WAS PREPARED AND COMPACTED IN ACCORDANCE WITH THE SOIL REPORT AND SPECIFICATIONS.
 - THE FOUNDATION AND/OR PIER EXCAVATION, DEPTH AND BACKFILL MATERIALS, AND DRAINAGE (IF APPLICABLE) SUBSTANTIALLY CONFORM TO THE SOIL REPORT AND APPROVED PLANS.
- 9. PRIOR TO FINAL INSPECTION FOR ANY BUILDING OR STRUCTURE, THE GEOTECHNICAL ENGINEER OR CIVIL ENGINEER WHO PREPARED THE SOIL INVESTIGATION SHALL ISSUE A FINAL REPORT STATING THE COMPLETED PAD. FOUNDATION. FINISH GRADING. AND ASSOCIATED SITE WORK SUBSTANTIALLY CONFORM TO THE APPROVED PLANS, SPECIFICATIONS, AND INVESTIGATION.
- 10. PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK OR GRADING ACTIVITIES, INCLUDING BASEMENT EXCAVATION AND TRENCHING THAT EXCEEDS 5 FOOT IN DEPTH, THE PERMITTEE SHALL ARRANGE A PRE-CONSTRUCTION MEETING. THE MEETING SHALL INCLUDE THE CITY OF WATSONVILLE GRADING INSPECTOR, THE GRADING CONTRACTOR AND THE PROJECT SOILS ENGINEER. the PERMITTEE OR REPRESENTATIVE SHALL ARRANGE THE PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTHWORK / GRADING ACTIVITIES.
- 11. EXCAVATION CUTS EXCEEDING 5 FEET TYPICALLY REQUIRE A DOSH PERMIT. ALL EXCAVATIONS MUST CONFORM TO APPLICABLE OSHA AND CAL OSHA REQUIREMENTS. CONTACT CALIFORNIA DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH (DOSH) FOR INFORMATION ABOUT REQUIRED PERMITS. AT THE PRE-CONSTRUCTION MEETING, THE EXCAVATION CONTRACTOR SHALL SUBMIT PROOF, TO THE CITY BUILDING INSPECTOR, THAT SHOWS HE OR SHE HAS RECEIVED SUCH A PERMIT FROM DOSH.
- 12. PRIOR TO ANY GRADING, SCRAPING OR TRENCHING WITHIN/ UNDER THE CANOPY OF A PROTECTED TREE, A CERTIFIED ARBORIST SHALL BE RETAINED TO PROVIDE SUPERVISION AND RECOMMENDATIONS TO MINIMIZE POSSIBLE DAMAGE TO THE TREE. THE PROPOSED TRENCHING SHALL BE APPROVED BY THE CITY OF WATSONVILLE PLANNING DEPARTMENT PRIOR TO COMMENCING DIGGING.

1. PROJECT NAME: CHEENEY STREET TOWNHOUSES

2. ASSESSOR PARCEL NO: 104-12-025 & 104-12-026

SITE ADDRESS: CHEENEY STREET, SANTA CLARA, CA 95054

4. LOT AREA: 0.2± ACRES (GROSS AREA)

5. OWNER: GROUND ZERO CONSTRUCTION ADDRESS: 101 SOUTH SANTA CRUZ AVE, UNIT 33192,

LOS GATOS, CA 95031

TELEPHONE: (408)-710-6725 6. ENGINEER: NINH M LE, PE

ADDRESS: 598 E SANTA CLARA ST #270, SAN JOSE, CA 95112

TELEPHONE: (408)-806-7187

7. SURVEYOR: TOM H. MILO ADDRESS: 2250 BOHANNON DRIVE, SAN CLARA, CA 95050

TELEPHONE: (408)-761-5867

RM-3 MULTIPLE RESIDENTIAL-HIGH DENSITY 8. EXISTING ZONING:

9. PROPOSED ZONING: NO CHANGE 10. EXISTING USE: VACANT

11. PROPOSED USE: RESIDENTIAL

12. PROPOSED NUMBER OF LOTS: 9 LOT

- 13. ALL DIMENSIONS AND PROPOSED GRADING ARE PRELIMINARY AND SUBJECT TO FINAL DESIGN
- 14. PROPOSED WATER, SANITARY SEWER, AND STORM DRAIN WILL BE CONSTRUCTED AS PER LOCAL AGENCY STANDARDS.
- 15. WATER: SANTA CLARA WATER AND UTILITIES
- 16. SEWER: SANTA CLARA WATER AND UTILITIES
- 17. STORM: SANTA CLARA WATER AND UTILITIES
- 18. GAS & ELECTRIC: PG&E 19. TELEPHONE: AT&T
- 20. CABLE TV: COMCAST

EXPORT ____O CY

- 21. IF EXISTING WATER METER IS NOT BEING USED, IT SHALL BE REMOVED AND CAPPED AT MAIN
- 22. IF EXISTING INLETS ARE NOT BEING USED, THEY SHALL BE REMOVED AND CAPPED
- 23. REMOVE ALL EXISTING IMPROVEMENT WITHIN THE PROPERTY LIMITS

EARTHWORK QUANTITIES

 $CUT = 21 CY ; MAXIMUM CUT DEPTH = 0.50' \pm$ $FILL = 169 CY ; MAXIMUM CUT DEPTH = 0.66' \pm$ IMPORT ____148__ CY

EARTHWORK QUANTITIES AS SHOWN ON THE PLAN IS FOR INFORMATION ONLY. CONTRACTOR TO CALCULATE HIS/HER OWN EARTHWORK QUANTITIES FOR BIDDING PURPOSE.

SHEET INDEX:

SHEET C1: TITLE SHEET SHEET C2: DEMOLITION PLAN

SHEET C3: PRE & POST DEVELOPMENT PLAN

SHEET C4: STORMWATER CONTROL PLAN SHEET C5: GRADING AND DRAINAGE PLAN

SHEET C6: BUILDING CROSS SECTIONS & DETAILS SHEET C7: UTILITY PLAN SHEET C8: EROSION CONTROL PLAN

BLDG

CED

COP

CSD

EΜ

EOH

MW

NTS

PAD

PSE

PWLE

PVMT

PVC

RW

R/W

SS

STA

TYP

UGEE

VEG

WLK

WM

PSDRE

MAXIMUM

MANHOLE

MINIMUM

MONUMENT WELL

ORIGINAL GROUND

PAD ELEVATION

PROPERTY LINE

POWER POLE

PAVEMENT

RADIUS

STATION

SIDEWALK

TOP OF BANK

TOP OF CURB

TOP OF GRATE

TOP OF WALL

VEGETATED

TYPICAL

WATER

WALKWAY

WATER METER

WATER VALVE

PAVEMENT FINISH GRADE

PUBLIC SERVICE EASEMENT

SANITARY SEWER/LATERAL

SILICON VALLEY POWER

PRIVATE SANITARY SEWER EASEMENT

UNDERGROUND ELECTRICAL EASEMENT

PRIVATE WATER LINE EASEMENT

PRIVATE STORM DRAIN

RELEASE EASEMENT

POLYVINYL CHLORIDE

RETAINING WALL

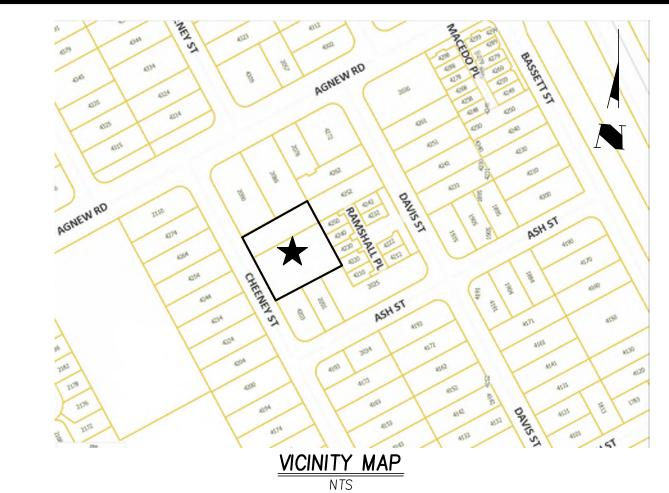
RIGHT OF WAY

STORM DRAIN

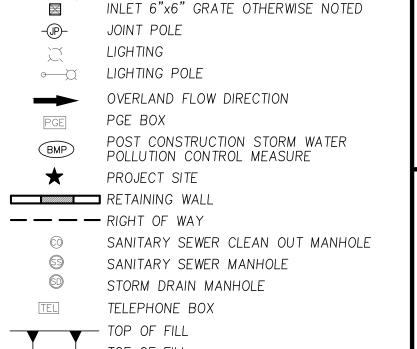
NOT TO SCALE

OVERHEAD

SHEET C9: EROSION CONTROL DETAILS



LEGEND & ABBREVIATIONS AGGREGATE BASE BENCHMARK lacktriangleASPHALT CONCRETE BUILDING CB CATCH BASIN BUILDING SETBACK LINE BOTTOM OF WALL/BACK OF WALK COBBLE ROCK ENERGY DISSIPATOR COBBLE ROCK ENERGY DISSIPATOR CONCRETE CURB & GUTTER ——550 —— CONTOUR: EXISTING CENTERLINE —— 550 —— CONTOUR: PROPOSED OR NEW SANITARY SEWER CLEANOUT CURB OPENING 100.46 DESIGN GRADE CONCRETE DOWNSPOUT WITH SPLASHBLOCK 0 CITY STANDARD DETAIL DRAINAGE INLET DIVERSION VALVE DOWNSPOUT EXTENDABLE BACKWATER VALVE DRIVEWAY (SEE PROJECT NOTES) EASEMENT ELEVATION ——···→ DRAINAGE SWALE ELECTRIC METER --- -- EASEMENT LINE ELECTRIC OVERHEAD +101.70 OR (101.70) EXISTING ELEVATION ELECTRIC UNDERGROUND EDGE OF PAVEMENT -X X EXISTING FENCE EXISTING EXISTING TREE TO BE REMOVED EMERGENCY VEHICLE ACCESS EASEMENT EXISTING TREE TO REMAIN FACE OF CURB FOUND ELECTRICAL METER FINISH ELEVATION OF SUBFLOOR FOUND IRON PIPE AT PROPERTY CORNER GROUND FINISH GRADE FIRE HYDRANT —O——— FILTER FABRIC ROLLS FLOW LINE GAS METER GARAGE SLAB ELEVATION/GAS LINE GAS VALVE GAS METER HIGH POINT ~~~ GRADE TO DRAIN INVFRT GUY POLE IRON PIPE GUY WIRE ANCHOR JOINT TRENCH LIP OF GUTTER EXISTING FIRE HYDRANT LANDSCAPED ARFA HYDRANT: PROPOSED OR NEW

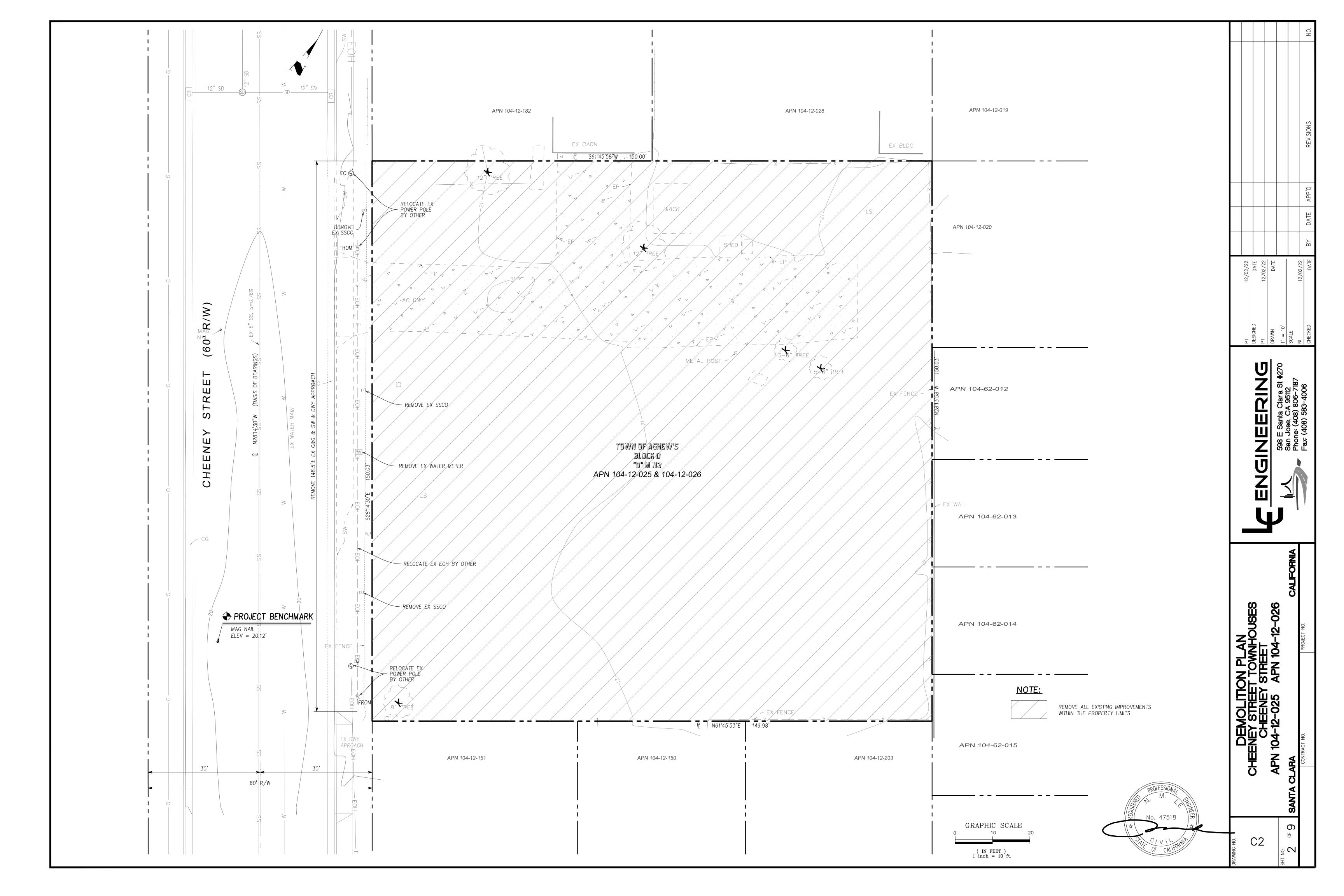


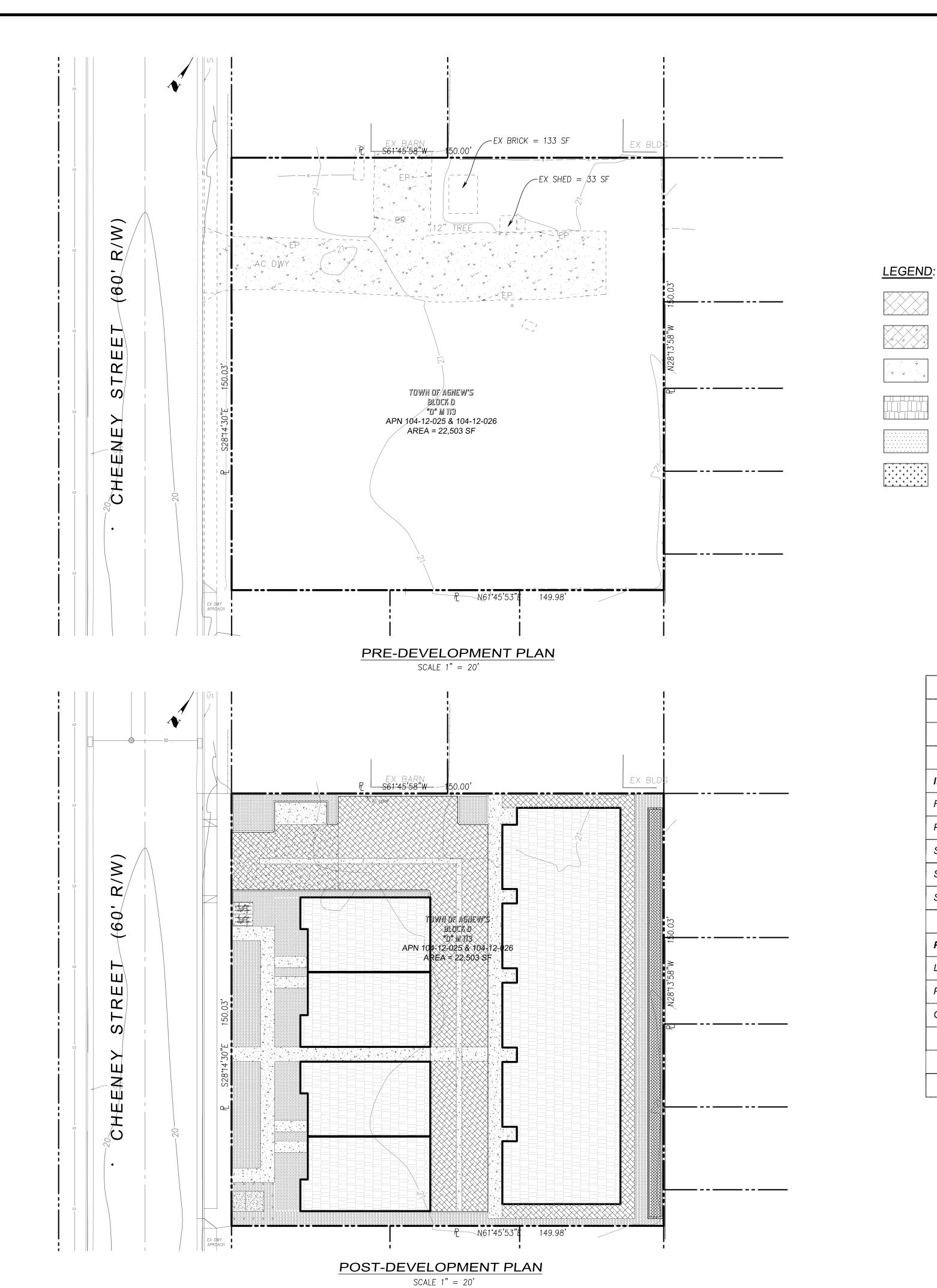
TEL TOE OF FILL TOP OF CUT TOE OF CUT — W — UTILITY: EXISTING

WATER METER WATER VALVE WELL

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PRE - DEVELOPMENT

NO.	SURFACE AREA	IMPERVIOUS	PERVIOUS
1	CONCRETE DRIVEWAY	3,410 SF	
2	SHED & BRICK	166 SF	
3	LANDSCAPING		18,928 SF
	TOTAL	3,576 SF	18,928 SF

POST - DEVELOPMENT

PERMEABLE PAVER AREA

CONCRETE AREA

LANDSCAPE AREA

BIO-RETENTION

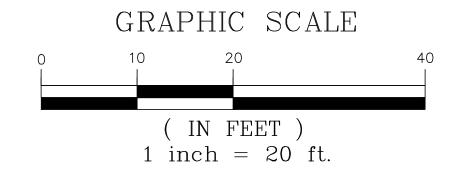
PAVER W/ CONCRETE BELOW

NO.	SURFACE AREA	IMPERVIOUS	PERVIOUS
1	BUILDING	10,017 SF	
2	CONCRETE AREA	2,061 SF	
3	PAVER W/ CONCRETE BELOW	885 SF	
4	PERMEABLE PAVER DRIVEWAY		3,772 SF
5	PERMEABLE PAVER WALKWAY		1,148 SF
6	LANDSCAPING		4,621 SF
	TOTAL	12,963 SF	9,541 SF

SUMMARY

SUIVIIVIANT							
DESCRIPTION	IMPERVIOUS	PERVIOUS					
PRE-DEVELOPMENT	3,576 SF	18,928 SF					
POST-DEVELOPMENT	12,963 SF	9,541 SF					
DIFFERENCE	9,387 SF	-9,387 SF					

	Project F	Phase Number: (N/A, 1, 2, 3, etc.)	1
Total Site (acres):	0.52	Total Area of Site Disturbed (acres):	0.468
	Existing Condition of Site Area	Proposed Condition of Site Area L	Disturbed (square feet)
Impervious Surfaces	Disturbed (square feet)	Replaced	New
Roof Area(s)	0	0	10,017
Parking	3,410	0	0
Sidewalks, Patios, Paths, etc.	166	166	2,780
Streets (public)	О	0	0
Streets (private)	0	0	0
Total Impervious Surfaces:	3,576	166	12,797
Pervious Surfaces			
Landscaped Areas	18,927	4,621	0
Pervious Paving	0	0	4,920
Other Pervious Surfaces (green roof, etc.)	0	0	0
Total Pervious Surfaces:	18,927	4,621	4,920
	Total Proposed Replace	d + New Impervious Surfaces:	12,963
	Total Proposed Repla	ced + New Pervious Surfaces:	9,541



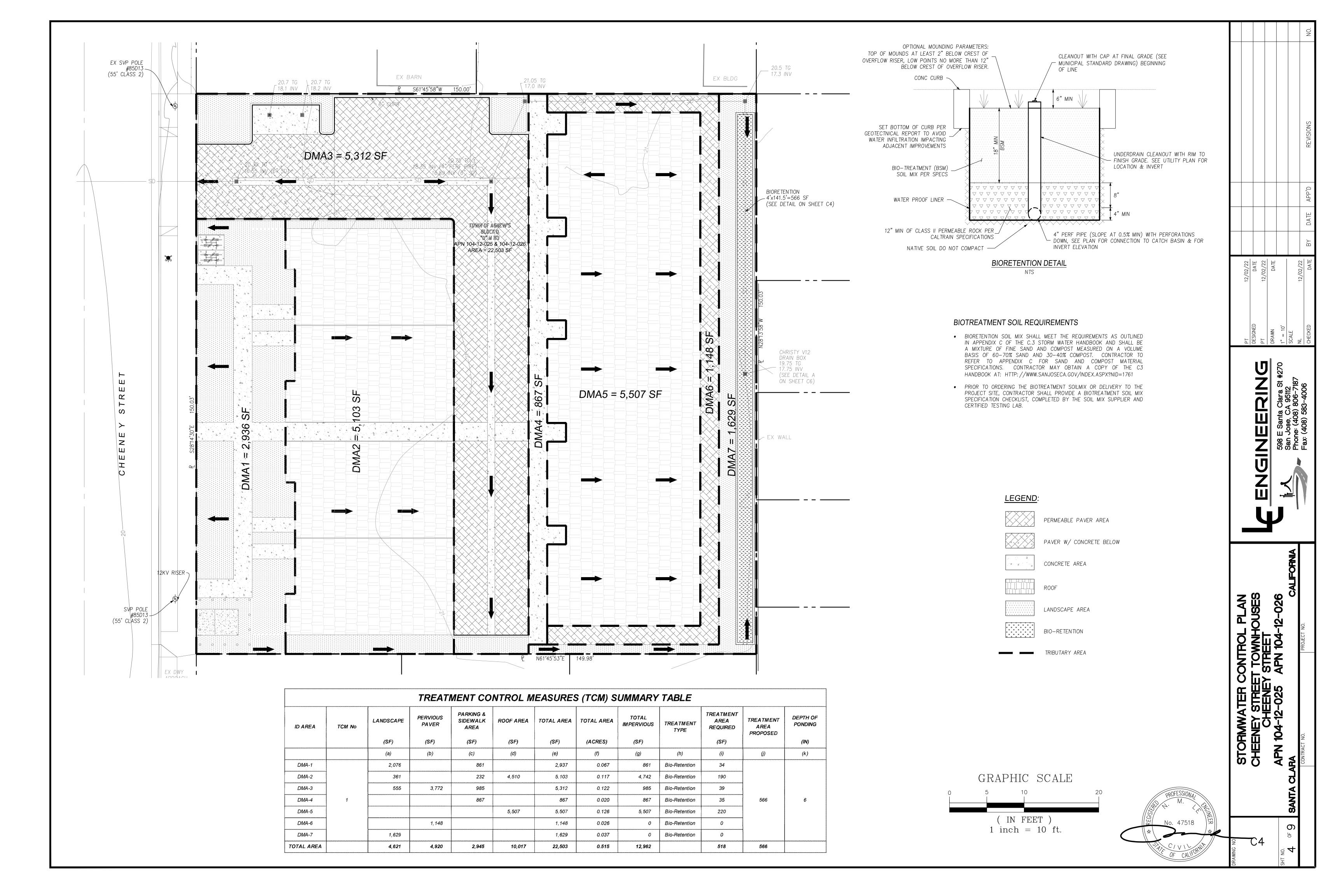


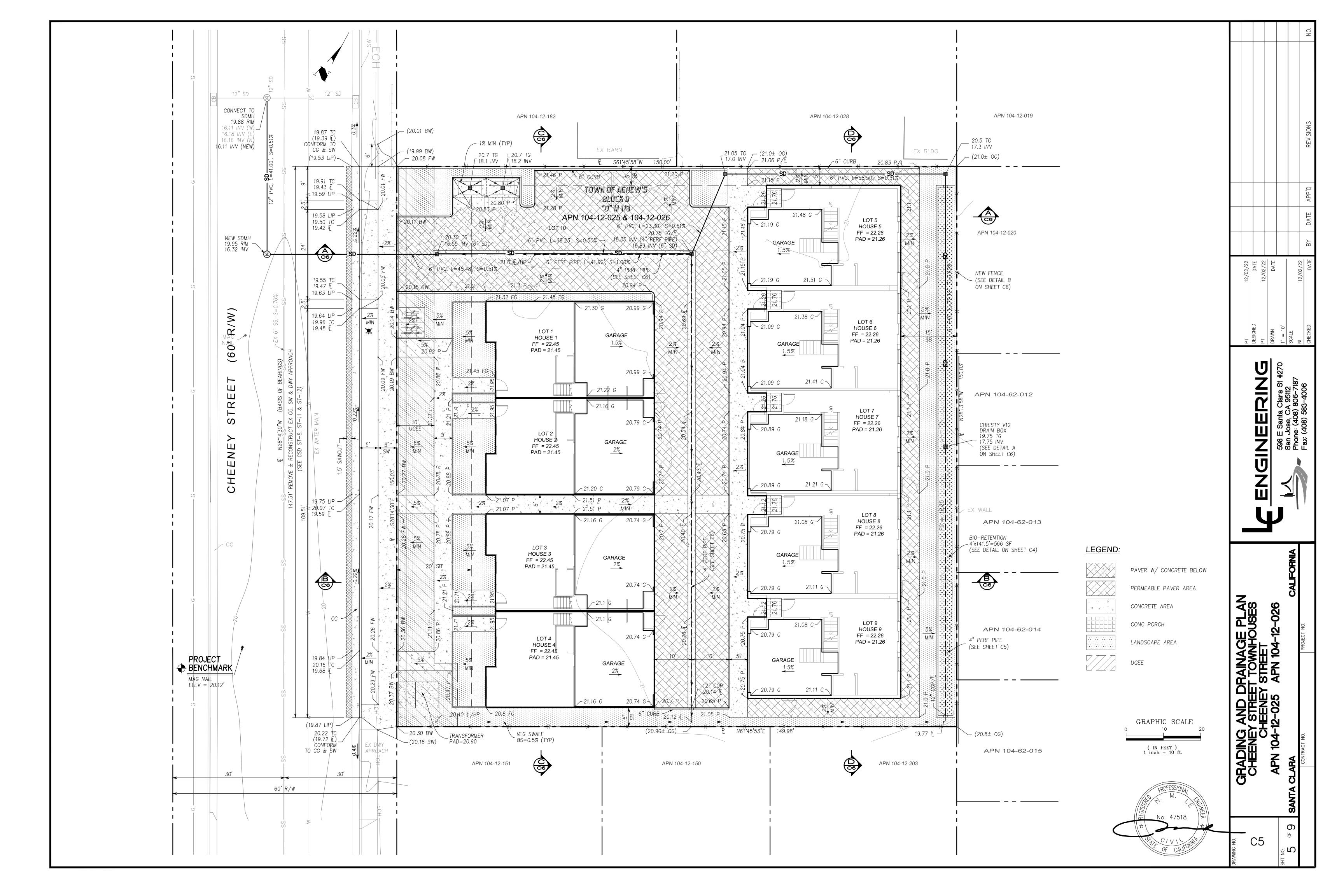
PRE AND POST DEVE
CHEENEY STREET

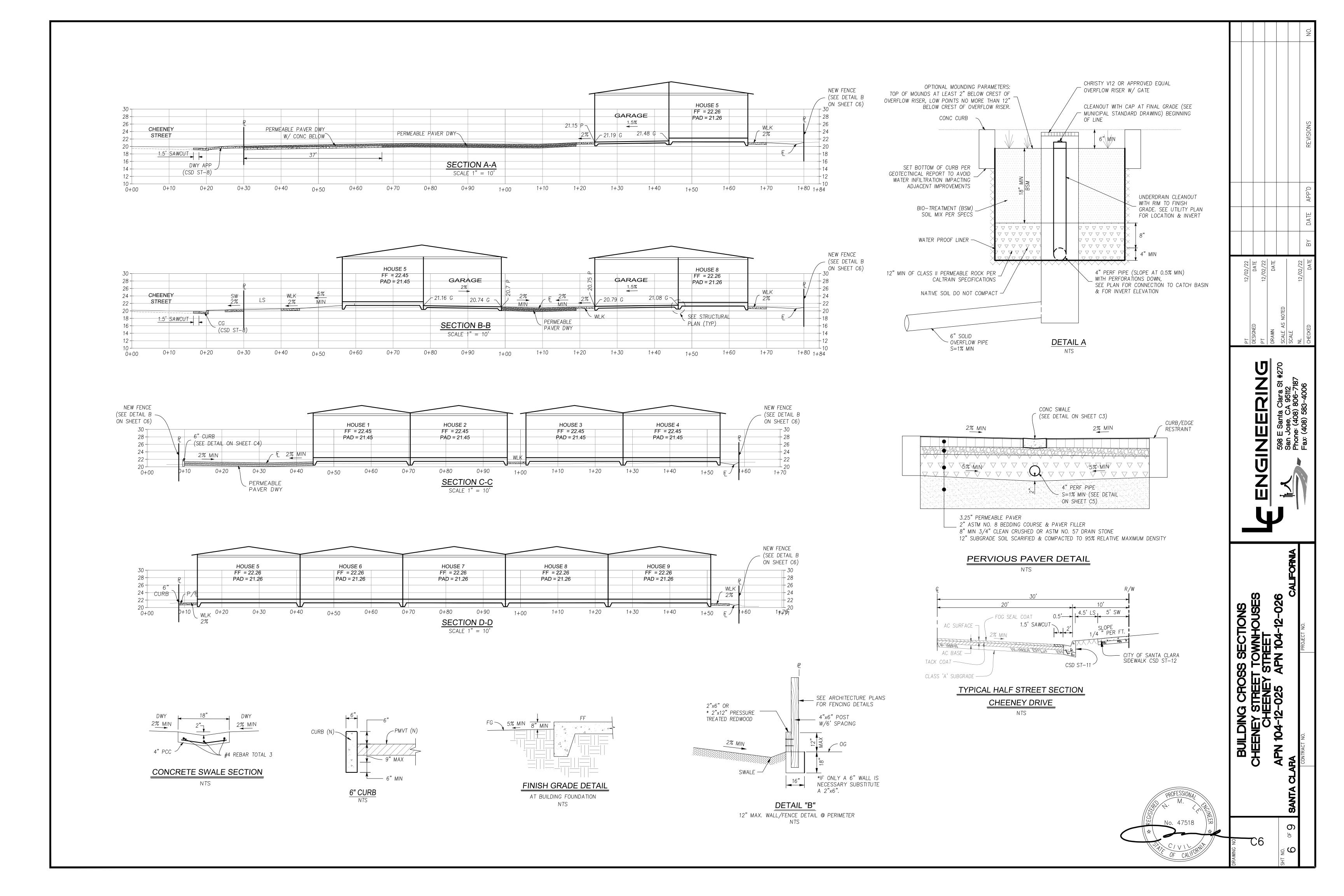
SINEERIN

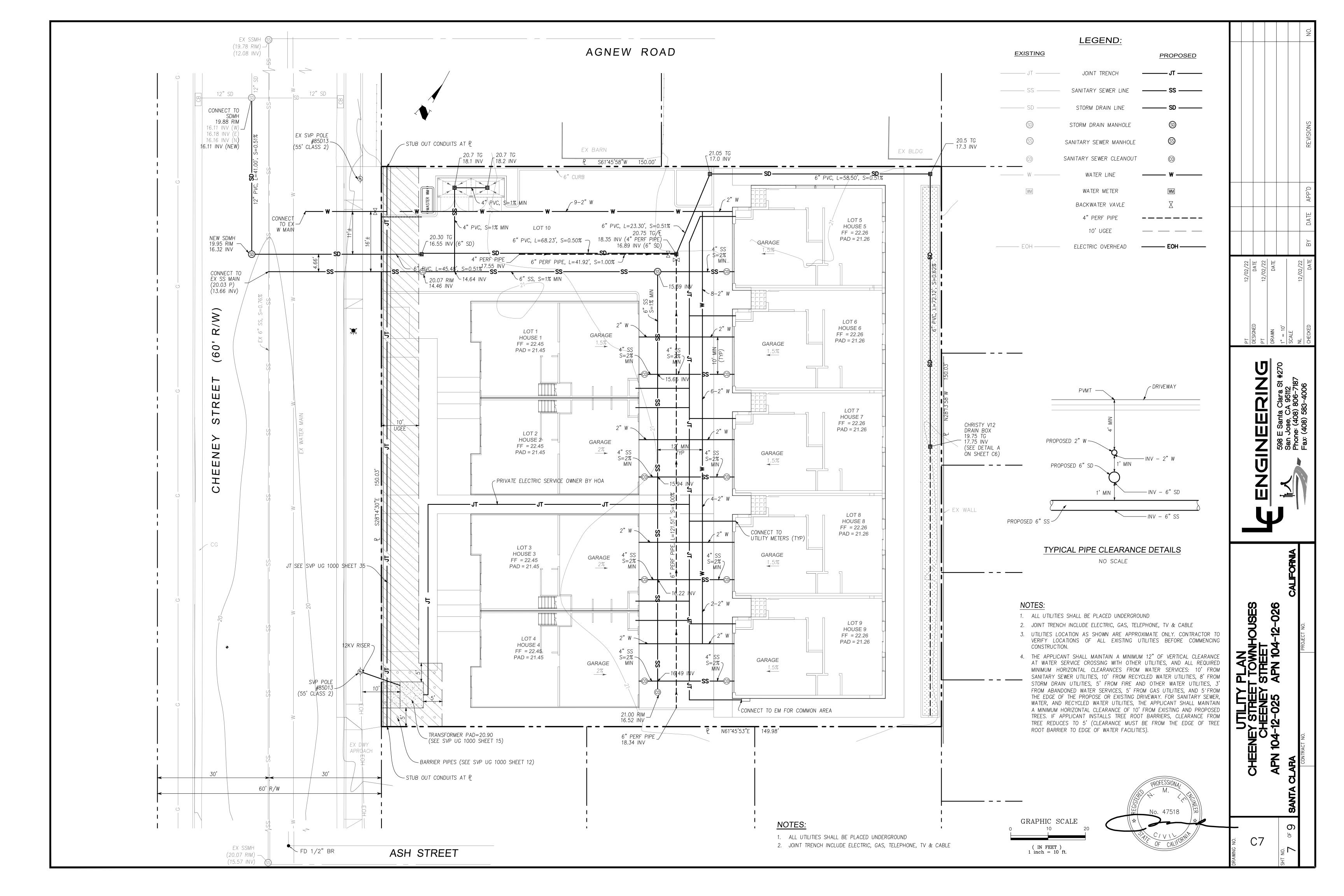
on C3

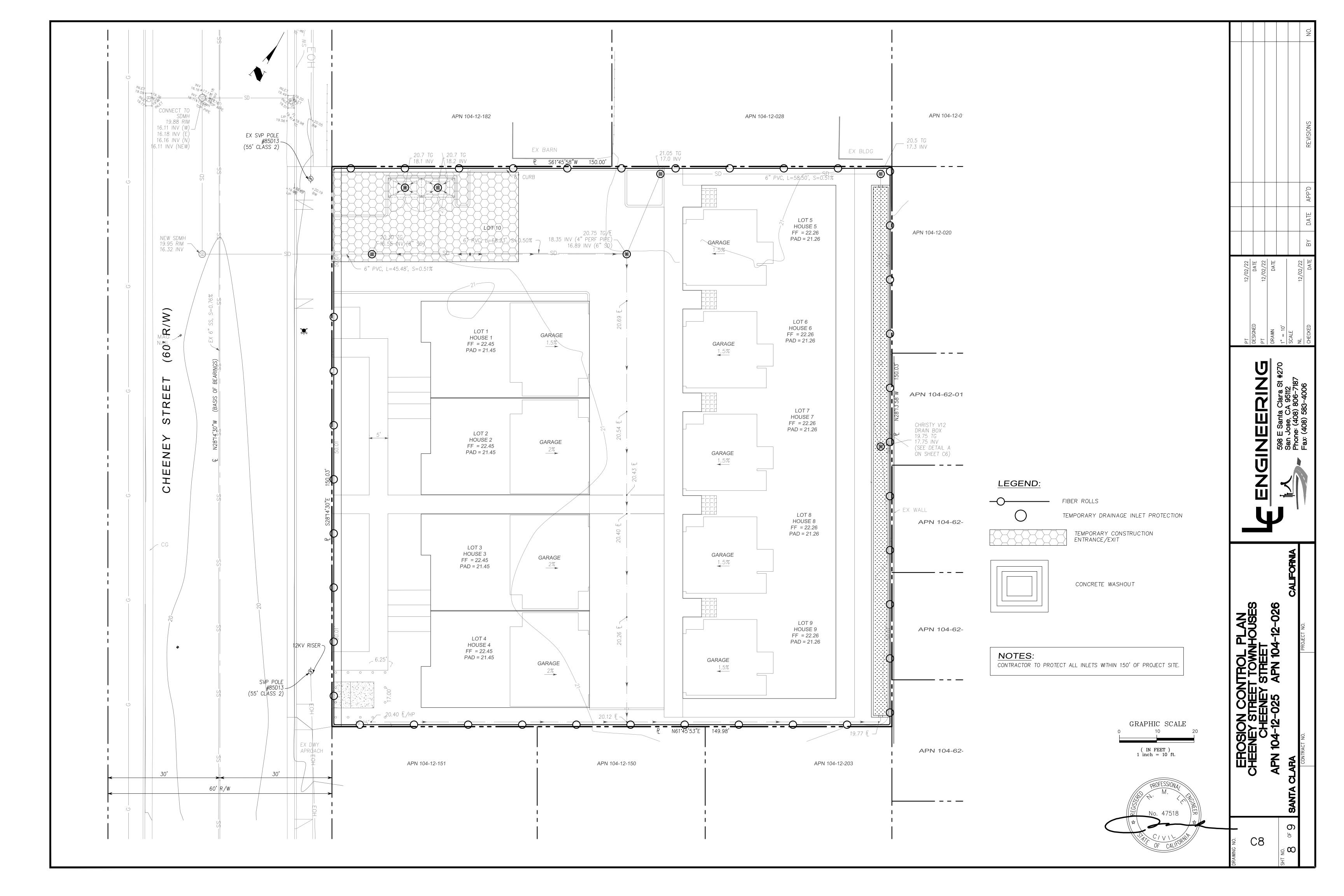
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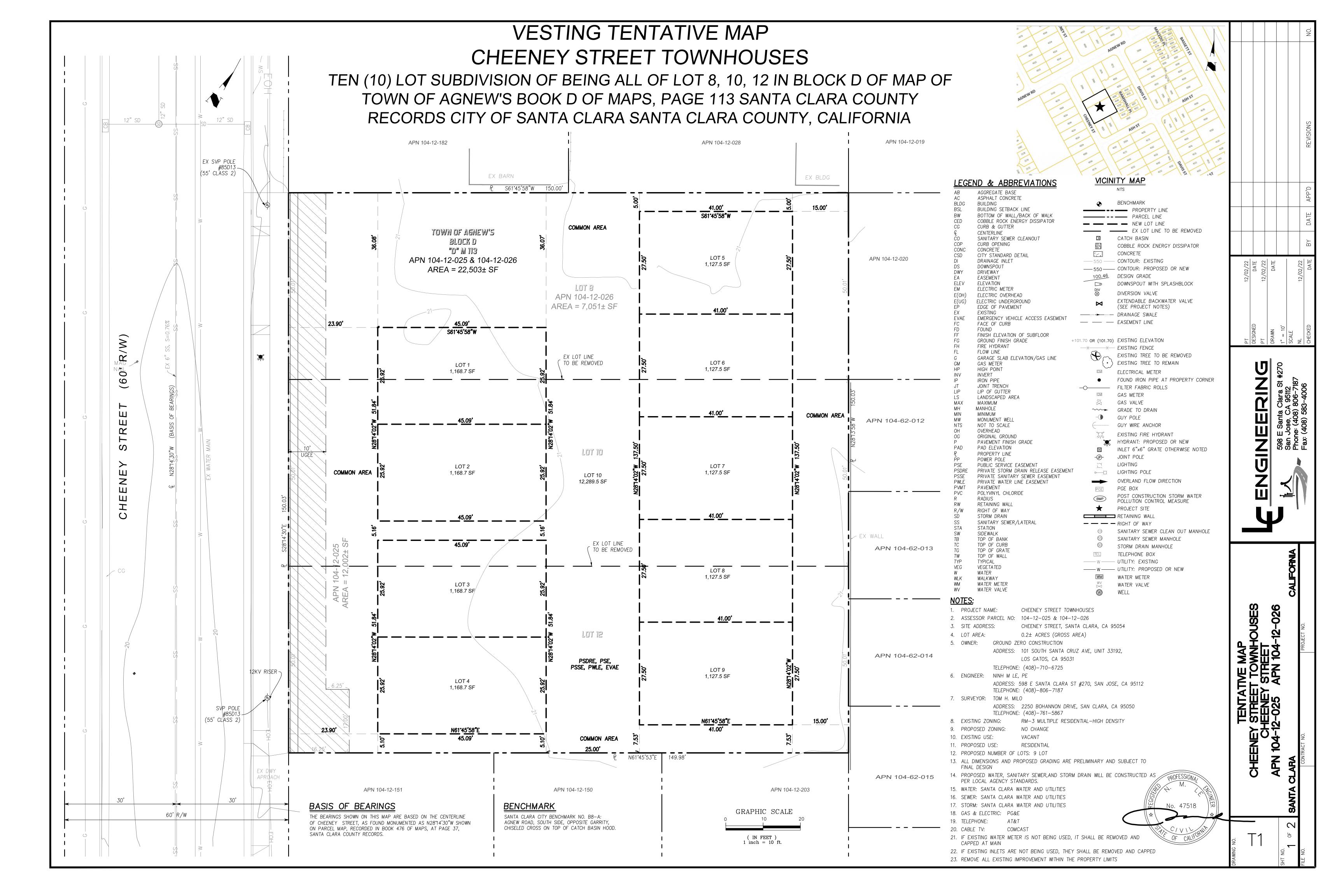


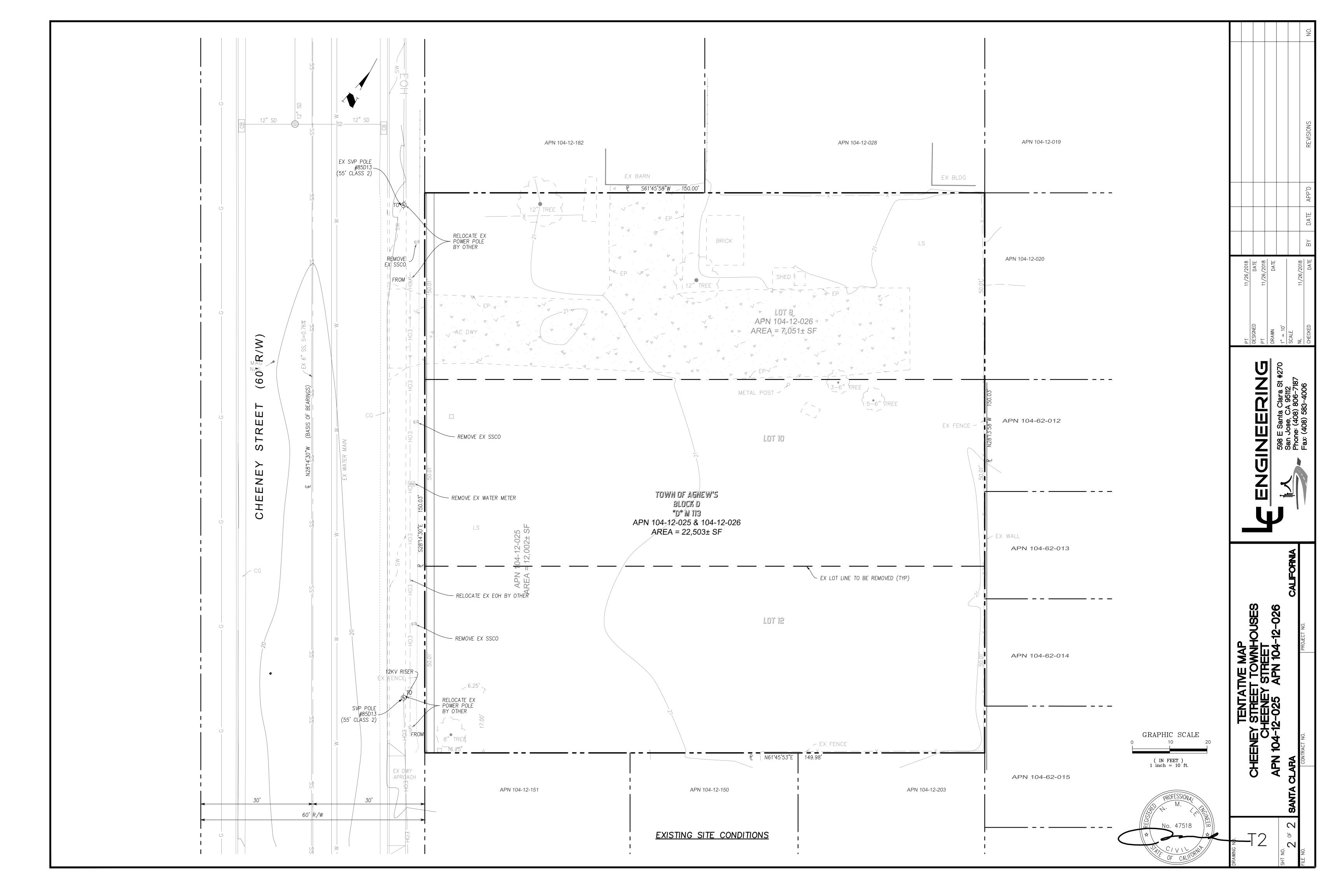


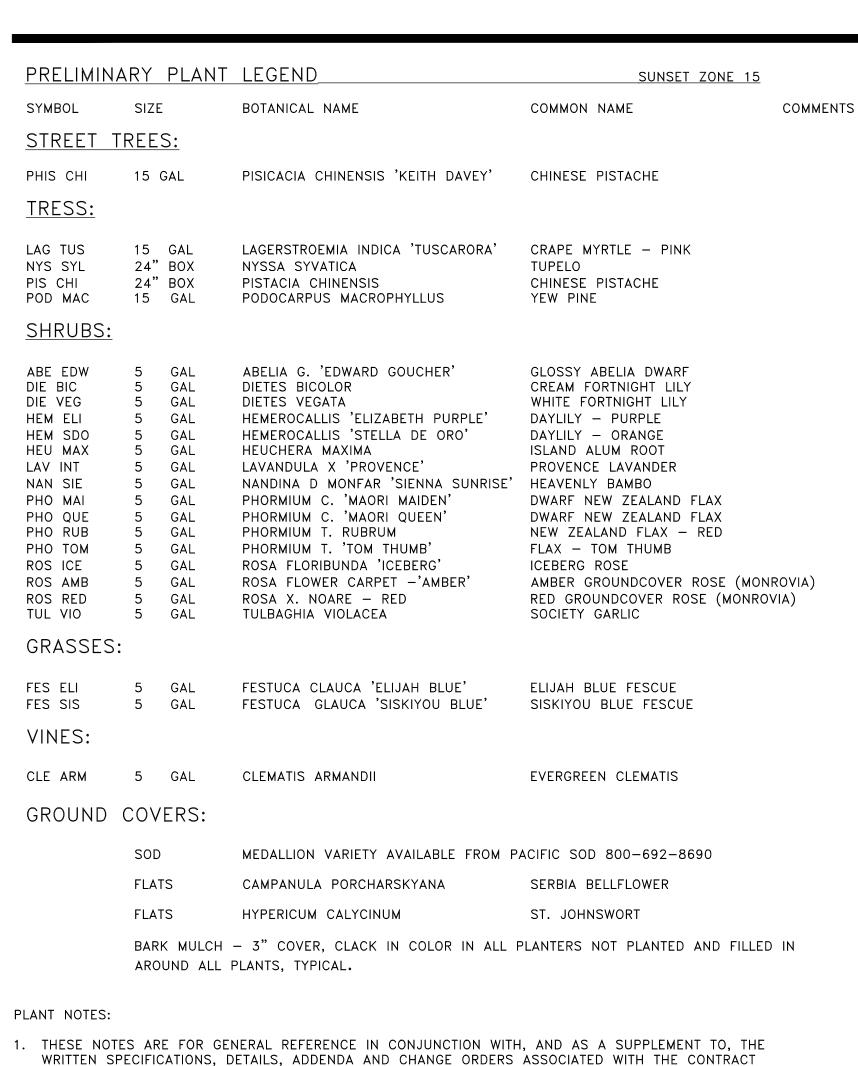




Wood Stake ——— — Entry ramp DIVERSION RIDGE REQUIRED EROSION CONTROL NOTES 2 % OR GREATER WHERE GRADE EXCEEDS 2% Plastic lining — Entry berm elev. +0.4 1. THIS PLAN IS INTENDED TO BE USED FOR INTERIM EROSION Rope — — Rock bag AND SEDIMENT CONTROL ONLY AND IS NOT TO BE USED FOR —elev. −3.0 FINAL PLAN ELEVATIONS OR PERMANENT IMPROVEMENTS. THE CITY INSPECTOR MAY REQUIRE INSTALLING ADDITIONAL Fiber Roll —— OG= elev. 0.0 EROSON CONTROL MEASURES DURING EARTHWORK OPERATION. SECTION B-B 2. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR – Drainage ditch MONITORING EROSION AND SEDIMENT CONTROL MEASURES SECTION A-A PRIOR, DURING, AND AFTER STORM EVENTS. 3. REASONABLE CARE SHALL BE TAKEN WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE, DEBRIS, PAPER OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR THER PUBLIC PLACE. SHOULD ANY BLOW, SPILL, OR TRACK OVER AND UPON SAID PUBLIC OR ADJACENT PRIVATE PROERTY, IMMEDIATE 15' Min USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS REMEDY SHALL OCCUR. STRAW BALES, SANDBAGS, OR CONTINUOUS BERM OF TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED. EQUIVELENT HEIGHT 4. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE Rock bags as 0.0 SUPPLY WATER TO WASH WHEELS IF NECESSARY required SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN PLAN RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATER COURSES. FIBER ROLLS ROPE RESTRAINT METHOD 5. CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY. Edge of plastic 6. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, — Plywood 4' x 2' elev. -3.0painted white OCTOBER 15 TO APRIL 15. GRADING OPERATIONS DURING THE Top of cut ——— RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE — Black letters 0.5' PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY **WASHING** 0.0 FOLLOWING GRADING ON THE SLOPES. **FACILITY** — 0.5" Lag screws **~~** 7. FINISHED SLOPES ON THE SITE SHALL BE STABILIZED USING SEED AND STRAW OR HYDROSEED TREATMENTS. - DIVERSION RIDGE 8. UNFINISHED ROADWAY AREAS SHALL BE PROTECTED FROM — 4X4 Wood post EROSION AS SHOWN ON THE EROSION CONTROL PLAN. HAY BALE CHECK DAMS WILL BE REQUIRED ON ROADWAY SLOPES Toe of cut ____ PLAN STEEPER THAN FIVE PERCENT. **TEMPORARY** elev. |-1.3 GRAVEL CONSTRUCTION ENTRANCE/EXIT SIGN ELEVATION Wood Stake Drainage ditch Fiber Roll 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY Excavated REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED Material elev. +0.4 TO TRAP SEDIMENT. The temporary equipment washing facility sign shall be installed 2. WHEN NECESSARY, WHEELS SHALL BE within 20 feet of the temporary concrete CLEANED PRIOR TO ENTRANCE ONTO PUBLIC washout facility. RIGHT-OF-WAY. 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABLIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. elev. 0.0 2.5 m Min SECTION FIBER ROLLS IN FURROWS Grading Conform ——— PLAN TEMPORARY EQUIPMENT WASHING FACILITY (Below Grade) — Drain inlet grate FLOW — Dump straps (2 each) -Lifting loops (2 each) SECTION A-A Sediment control Minimum 1' overlapped - Expansion restraint - Drain inlet with sediment control bag SECTION TEMPORARY DRAINAGE INLET PROTECTION SEDIMENT CONTROL BAG PERSPECTIVE For paved areas exposed to traffic — Toe of slope FIBER ROLLS ROPE RESTRAINT METHOD







- DOCUMENTS.
- 2. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
- 3. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF ALL EXISTING AND FUTURE UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH WORK TO BE DONE. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO DIGGING. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE.
- 4. FINE GRADING, HEADERS AND IRRIGATION COVERAGE SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLANTING OPERATIONS.
- 5. CONTRACTOR SHALL LAY OUT PLANT MATERIAL PER PLAN AND FACE TO GIVE BEST APPEARANCE OR RELATION TO ADJACENT PLANTS, STRUCTURES OR VIEWS. CONTRACTOR TO OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- 6. PLANT MATERIALS SHALL NOT BE INSTALL IN AN AREA WHICH WILL COST HARM TO ADJACENT STRUCTURES OF OBSTRUCT IRRIGATION SPRAY PATTERN. NOTIFY THE OWNER'S REPRESENTATIVE SHOULD CONFLICTS ARISE.
- 7. PRIOR TO PLANTING INSTALLATION, CONTRACTOR SHALL OBTAIN APPROVAL OF PLANT LAYOUT FROM OWNER'S REPRESENTATIVE. PLANT LOCATIONS ARE DIAGRAMMATIC AND MAY BE ADJUSTED ON THE FIELD AT THE OWNER'S REPRESENTATIVE'S REQUEST.
- 8. CONTRACTOR SHALL COORDINATE PLAT LOCATION TO DRIP TUBING LOCATION AND ADJUST PLANTING AS NECESSARY TO ACHIEVE BEST RESULTS.
- 9. ALL NON-TURF AREAS SHALL BE MULCHED WITH A MINIMUM 3" LAYER OF BARK MULCH. UNLESS OTHERWISE NOTED, FINISH GRADE OF PLANTING AREAS SHALL BE 3" BELOW ADJACENT PAVING. TAPER 3" DEPTH BARK MULCH TOP DRESSING TO 1/2" BELOW ADJACENT PAVING (1-1/2)" DEPTH) WITHIN 2-FEET OF PAVING. CONTRACTOR SHALL SUBMIT A SAMPLE TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO MULCH DELIVERY TO THE SITE. FOR FURTHER INFORMATION, SEE SPECIFICATIONS.
- 10. GROUND COVERS SHALL BE PLANTED EVENLY AND CONTINUOUSLY UNDER TREE AND SHRUB MASSES.
- 11. CONTRACTOR SHALL USE A NATURAL PRE-EMERGENT, SUCH AS CORN WEED BLOCKER OR COMPARABLE, AND SHALL APPLY ACCORDING TO THE MANUFACTURES DIRECTIONS PRIOR TO APPLYING MULCH.
- 12. ALL NEWLY PLANTED MATERIAL SHALL BE THOROUGHLY SOAKED WITH WATER WITHIN 3 HOURS OF PLANTING.
- 13. 30 DAYS AFTER PLANTING, CONTRACTOR SHALL RE-STAKE AND STRAIGHTEN TREES AS NEEDED.
- 14. BENEATH PROPOSED SOD, EXCAVATE EXISTING SOIL TO A DEPTH OF 12" BELOW PROPOSED FINISHED GRADE. REPLACE WITH IMPORTED LOAN SOIL AND BRING TO FINISHED GRADE.
- 15. THE CONTRACTOR SHALL PROVIDE FOR IN THEIR BID FOR A BASE AMENDMENT FOR SOIL AMENDMENT. AFTER ROUGH GRADING OF THE SITE A SOIL NUTRIENT TEST WILL BE CONDUCTED OF VARIOUS PLANTED AREAS AND THE PLANTED AREAS SHALL BE AMENDED BASED ON THIS SOILS REPORT.

MODEL WATER EFFICIENCY LANDSCAPE ORDINANCE COMPLIANCE

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENCY LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION TITLE 23 CH. 2.7 SECTION 492.3

I HAVE AND COMPLY WITH THE CRITERIA OF THE MODEL WATER EFFICIENCY LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENCY USE OF THE WATER IN THE LANDSCAPE DESIGN PLAN

ENGINEERING PLANS ENGINEERING PLANS $(\cdot)(\cdot)$ VEGETATED SWALE SEE CIVIL ENGINEERING PLANS 1 NYS SYL VEGETATED SWALE SEE CIVIL ENGINEERING PLANS 1 LAG TUS -2 LAG TUS PLANTING SHALL CONFORM TO -CITY TRIANGLE OF SAFETY REQUIREMENTS, REFER TO CIVIL' ENGINEERING' PLANS 16' ROOF BARRIER -WHERE TREES, ABUT PUBLIC SIDEWALK, - 3 PIS CHI 35'-0" 35'-0"

BIO-RETENTION DEVICE, SEE CIVIL

DRAINAGE BASIN, SEE CIVIL

CHEENEY STREET

ENGINEERS & ASSOCIATES 370 GRAND PARK CIRCLE SAN JOSE CA, 95136 TEL: (408) 509-3464 alialbiani@sbcglobal.ne



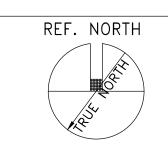
WNHOUSE

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1		
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DATE: August 23, 2022 PROJECT No. 10-042122

LANDSCAPE PLAN







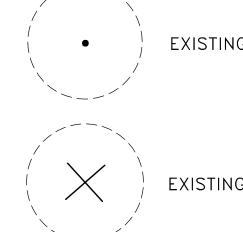
MODEL WATER EFFICIENCY TURF ALLOWANCE CALCULATION

3,504 S.F. TOTAL LANDSCAPE AREA 876 S.F. TOTAL TURF AREA ALLOWED (25%) 286 S.F. TOTAL PROPOSED TURF AREA FOR PROJECT

© 2022

MFA CONSTRUCTION AND ENGINEERING

	TREE	INVENTO	RY LEGEND		
TREE #	TREE SPECIES BOTANICAL NAME	TREE SPECIES COMMON NAME	SIZE DBH @ 54"	STD OR MULTI TRUNK	TREE TO BE REMOVED
79	MALUS SPECIES	APPLE	4", 3", 3"	MULTI	YES
80	LIGUSTRUM SPECIES	PRIVET	2",1"	MULTI	YES
81	LIGUSTRUM SPECIES	PRIVET	2"	STD	YES
82	LIGUSTRUM SPECIES	PRIVET	3",2"	MULTI	YES
83	JUNGLANS REGIA	ENGLISH WALNUT	2"	STD	YES
84	PERSIA AMERICANA	AVOCADO	4"	STD	YES
85	PERSIA AMERICANA	AVOCADO	4",3"	MULTI	YES
86	PERSIA AMERICANA	AVOCADO	3"	STD	YES
87	PERSIA AMERICANA	AVOCADO	0'-4", 0'-5", 0'-4"	MULTI	YES
88	PERSIA AMERICANA	AVOCADO	5",5",4",4"	MULTI	YES
89	PHOENIX CCANARIENSIS	DATA PALM	NA	STD	YES
90	JUGLANS REGIA	ENGLISH WALNUT	3",3",2"	MULTI	YES
91	CELTIS SPECIES	HACKBERRY	3"	STD	YES
92	SCHINUS TEREBINTHIFOLIUS	BRAZILIAN PEPER	3",3",3"	MULTI	YES
93	JUGLANS HINDSII	BLACK WALNUT	5"	STD	YES
94	CITRUS SPECIES	ORANGE	12"	STD	YES



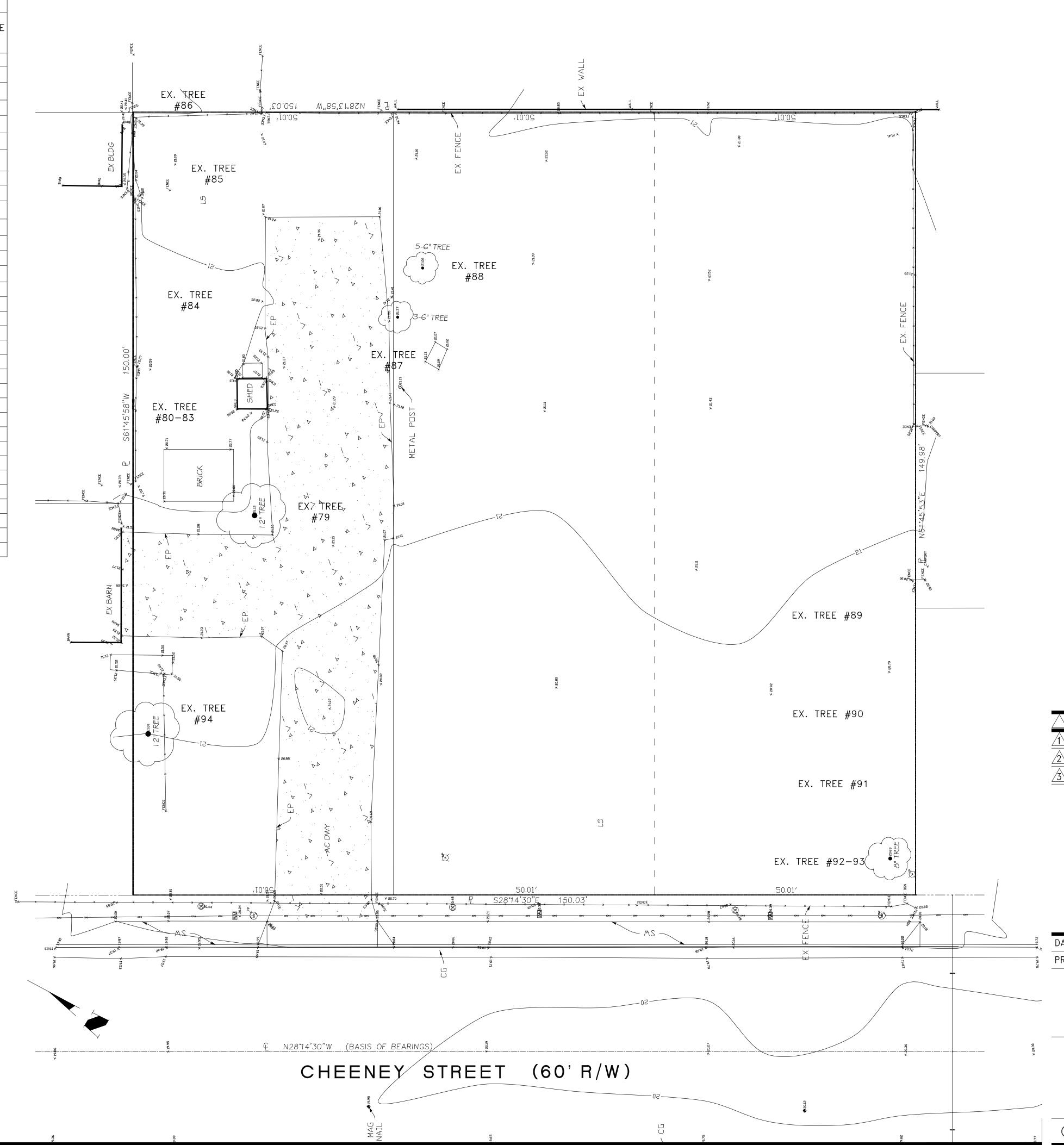
EXISTING TREES TO REMAIN

EXISTING TREES INTENDED FOR REMOVAL

UNK- UNKNOWN INFORMATION TO BE DETERMINED TBD — TO BE DETERMINED

NOTE: 1. ALL TREES HERE SHOWN HAVE BEEN SURVEYED BY A LICENSED SURVEYOR. ALL TREE SPECIES HAVE BEEN IDENTIFIED BY A LICENSED ARBORIST.

2. ALL TREES DIAMETERS HAVE BEEN MEASURES 54" ABOVE GRADE BY A LICENSED ARBORIST



MFA

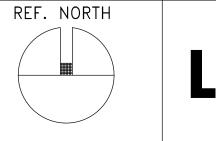
ENGINEERS & ASSOCIATES 370 GRAND PARK CIRCLE SAN JOSE CA, 95136 TEL: (408) 509-3464 alialbiani@sbcglobal.net

SHANNOUSES

	REVISION	DATE
1		
<u>^2</u>		
$\sqrt{3}$		

August 23, 2022 DATE: PROJECT No. 10-042122

TREE INVENTORY PLAN



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LEGEND

GENERAL NOTES

NEW CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING

NEW CONDUIT AND WIRE CONCEALED UNDERFLOOR OR UNDERGROUND

EXISTING CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING

EXISTING CONDUIT AND WIRE CONCEALED UNDERFLOOR OR UNDERGROUND

HOMERUN SHOWING GROUND, HOT, AND NEUTRAL

LIGHT FIXTURES - SEE LIGHT FIXTURE SCHEDULE

\$ SINGLE POLE, SINGLE THROW SWITCH

THREE-WAY LIGHT SWITCH

\$PIR OCCUPANCY SENSOR SWITCH, PROXIMITY INFRA-RED

SWITCH WITH MOTION SENSOR

Q JUNCTION BOX

DUPLEX RECEPTACLE

QUAD RECEPTACLE

SIMPLEX RECEPTACLE, GROUNDED

DUPLEX RECEPTACLE, ISOLATED GROUND

DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION (GFCI)

GFCI DUPLEX RECEPTACLE, GFCI WITH WEATHERPROOF—IN—USE COVER

FLOOR BOX WITH DUPLEX RECEPTACLE

SPECIAL PURPOSE RECEPTACLE AS NOTED

DUPLEX RECEPTACLE WITH USB PLUGS

DSD FIRE ALARM SYSTEM DUCT MOUNT SMOKE DE

FIRE ALARM SYSTEM SMOKE DETECTOR

FIRE ALARM SYSTEM DUCT MOUNT SMOKE DETECTOR

120V CONNECTION TO FIRE/SMOKE DAMPER

DISCONNECT SWITCH, FUSED

DISCONNECT SWITCH, UN-FUSED

■ TELEPHONE OUTLET, AT 18" UNLESS OTHERWISE NOTED

→ TELEPHONE/DATA OUTLET

FLOOR BOX WITH TELEPHONE/DATA OUTLET

COMBINATION FLOORBOX: DUPLEX RECEPTACLE AND TELEPHONE/DATA OUTLET

PANELBOARD

THERMOSTAT

T TRANSFORMER

PHOTO SENSOR

OS OCCUPANCY SENSOR

X FLAG NOTE

REVISION NUMBER

FOH

GFCI

FRONT OF HOUSE

GROUND FAULT CIRCUIT INTERRUPTER

REVISION CLOUD

SOME SYMBOLS NOT USED IN THIS PROJECT.

POS

PWR

- 1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, LOCAL CODES, ORDINANCES AND REQUIREMENTS OF UTILITY COMPANIES FURNISHING SERVICES TO INSTALLATION.
- 2. PROVIDE ITEMS NECESSARY TO COMPLETE ELECTRICAL SYSTEMS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY CONDUIT, BOX, CONDUCTOR OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION.
- 3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND DETERMINE CONDITIONS WHICH MAY AFFECT BID. ANY ITEMS NOT FULLY UNDERSTOOD SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
- 4. WHEREVER THE WORD "PROVIDE" IS USED, IT MEANS, "FURNISH AND INSTALL COMPLETE AND READY FOR USE."
- 5. COORDINATE LOCATION OF ELECTRICAL WITH OTHER TRADES.
- 6. REFER TO MECHANICAL DRAWINGS FOR CHARACTERISTICS (SIZE, LOCATION, ETC.) OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.
- 7. PROVIDE CONDUCTORS AND RACEWAYS PER NATIONAL ELECTRICAL CODE.
- 8. REFER TO ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES, SWITCHES, AND ALL OTHER ELECTRICAL DEVICES.
- 9. PROVIDE LIGHT FIXTURES WITH PROPER FITTING, FLANGES, MOUNTING SUPPORTS AND ACCESSORY ITEMS. ALL FIXTURES SHALL BE UL LISTED FOR CONDITIONS OF USE.

MATERIALS AND METHODS

- PROVIDE RACEWAY AND WIRING ROUTED CONCEALED WITHIN BUILDING STRUCTURE WHERE POSSIBLE. WHERE RACEWAY CANNOT BE CONCEALED, IT SHALL BE INSTALLED PER PROJECT MANAGER'S DIRECTION. PROVIDE EMT CONDUIT INSIDE BUILDING.
- 2. EXPOSED CONDUIT ROUTING: CONDUITS MAY BE ROUTED EXPOSED IN MECHANICAL AND ELECTRICAL ROOMS ONLY. EXPOSED CONDUITS SHALL BE SECURED A MINIMUM OF 6" ABOVE FLOOR.
- 3. OUTDOOR EXPOSED CONDUIT ROUTING: CONDUITS ROUTED ON ROOF OR EXPOSED TO WEATHER SHALL BE EMT OR LIQUID—TIGHT FLEX. PROVIDE WATER—TIGHT CONNECTIONS AND FITTINGS. PROVIDE PVC ELECTRICAL CONDUIT UNDERGROUND AND ON ROOF.
- 4. CLEARANCES: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET.
- 5. CONNECTIONS: PROVIDE GRS, METALLIC FLEX, OR LIQUIDTITE FLEX CONDUITS FOR CONNECTIONS TO MOTORS OR MOTORIZED EQUIPMENT.
- 6. WIRING: PROVIDE MINIMUM #12 AWG WIRE SIZE AND MINIMUM 3/4" CONDUIT FOR ALL BRANCH CIRCUITRY.
- 7. WIRING: PROVIDE MINIMUM #10 AWG CONDUCTOR SIZE IN 120V BRANCH CIRCUIT RUNS OVER 75' IN LENGTH.
- 8. WIRING: POWER WIRING SHALL BE COPPER, THWN/THHN, INSULATED FOR 600V. ALUMINUM CONDUCTORS PERMITTED FOR FEEDERS 100 AMPS OR LARGER. INCREASE WIRE AND CONDUIT SIZE TO EQUAL OR EXCEED DESIGNED COPPER RATING.
- 9. DISCONNECTS: PROVIDE DISCONNECTS, FUSED AND UNFUSED, SHOWN AND REQUIRED BY CODE FOR EQUIPMENT FURNISHED UNDER ELECTRICAL AND MECHANICAL SCOPES OF WORK.

- 10. FUSES: PROVIDE FUSES PER EQUIPMENT NAMEPLATE UNLESS OTHERWISE INDICATED . FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS.
- 11. SUPPORT: SUPPORT LIGHT FIXTURES FROM BUILDING STRUCTURE. DO NOT SUPPORT FIXTURES FROM SUSPENDED CEILING.
- 12. LABELS: ELECTRICAL PANEL, TIME SWITCH, DISCONNECT, STARTER, CONTRACTOR, PULL BOX, ETC. ENCLOSURES SHALL BE PERMANENT LABELED TO IDENTIFY ITS DESIGNED OR UNIT SERVED
- 13. PAINTING: ELECTRICAL ENCLOSURES IN PUBLIC AREA SHALL BE PAINTED TO MATCH ADJUSTMENT WALL
- 14. COVERPLATES: PROVIDE AS FOLLOWS. SUBMIT SAMPLE OF EACH FOR APPROVAL.

 a. MECHANICAL AND ELECTRICAL ROOMS: GALVANIZED STEEL

 b. ALL OTHER AREAS: TO MATCH SURROUNDING SURFACE
- 15. HOME RUN NEUTRALS MAY BE COMBINED AT CONTRACTORS OPTION UNLESS CIRCUIT IS DEDICATED.
- 16. NEUTRAL CONDUCTORS: NEUTRAL MAY BE OMITTED ON EQUIPMENT CONNECTIONS IF CONTRACTOR VERIFIES THAT A NEUTRAL IS NOT REQUIRED FOR OPERATION OR CONTROL OF EQUIPMENT.
- 17. MULTIWIRE BRANCH CIRCUITS: PROVIDING POWER TO MORE THAN ONE DEVICE OR EQUIPMENT ON THE SAME YOLK SHALL HAVE MEANS TO DISCONNECT SIMULTANEOUSLY ALL UNGROUNDED CONDUCTORS SUPPLYING THESE DEVICES AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES PER NEC 210.4(B). AS—BUILT PANEL SCHEDULES SHALL SHOW ALL MULTIPOLE BREAKERS INSTALLED TO MEET THIS REQUIREMENT.

SPECIAL SYSTEMS

- 1. FIRE ALARM SYSTEM:
 PROVIDED AND INSTALLED BY FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL
 DESIGN AND PROVIDE COMPLETE, OPERATING, AND CODE COMPLIANT FIRE ALARM
 CONTRACTOR SHALL SUBMIT FULL SET OF PLANS INDICATING DEVICE LOCATIONS, WIRING,
 CONNECTIONS AND SPECIAL MOUNTING DETAILS TO THE FIRE MARSHALL.
- 2. SOLAR PHOTOVOLTAIC SYSTEM:
 SOLAR CONTRACTOR SHALL DESIGN AND PROVIDE COMPLETE, OPERATING AND CODE
 COMPLIANT SOLAR SUBMIT FULL SET OF PLANS INDICATING DEVICE LOCATIONS, WIRING,
 CONNECTIONS, AND SPECIAL MOUNTING DETAILS TO THE CITY BUILDING DEPARTMENT.
 SOLAR CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED FOR
 INTERCONNECTION OF SOLAR PV SYSTEM WITH UTILITY GRID.

ADA REQUIREMENTS

- 1. RECEPTACLE OUTLETS SHALL BE LOCATED 18' AFF UNLESS NOTED OTHERWISE
- 2. LIGHT SWITCHES SHALL BE INSTALLED WITHIN 34-48 INCHES OF THE FLOOR.
- 3. PUBLIC TELEPHONES MUST COMPLY WITH CBC 117B.2 FOR CLEARANCES AND FEATURES.

INDEX OF DRAWINGS

		INC	 JDE SFT	 IN
DWG	DESCRIPTION	PERMIT SET 12/08/2022		
E000	COVER SHEET, GENERAL NOTES, & INDEX	X		
E100	ONE-LINE DIAGRAM, FAULT, & PANEL SCHEDULES	X		
E1.01	LUMINAIRE SCHEDULE	X		
E2.00	SITE PLAN	X		
E3.00	TYPICAL UNIT POWER PLAN	X		
E3.01	TYPICAL UNIT POWER PLAN	X		



19401 40TH AVE W., SUITE 302 LYNNWOOD, WA 98036 206-364-3343 TEL REI PROJECT NO.: 590-054 CONTACT: ARIK ESPINELI



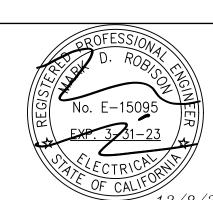
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EENEY ST TOWNHO

GREENEY ST.

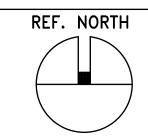
TA CLARA, CA 9505

REVISION DATE



DATE: DECEMBER 8. 2022
PROJECT No. 590-054

COVER SHEET, GENERAL NOTES, & INDEX



E0.00

ABBREVIATIONS

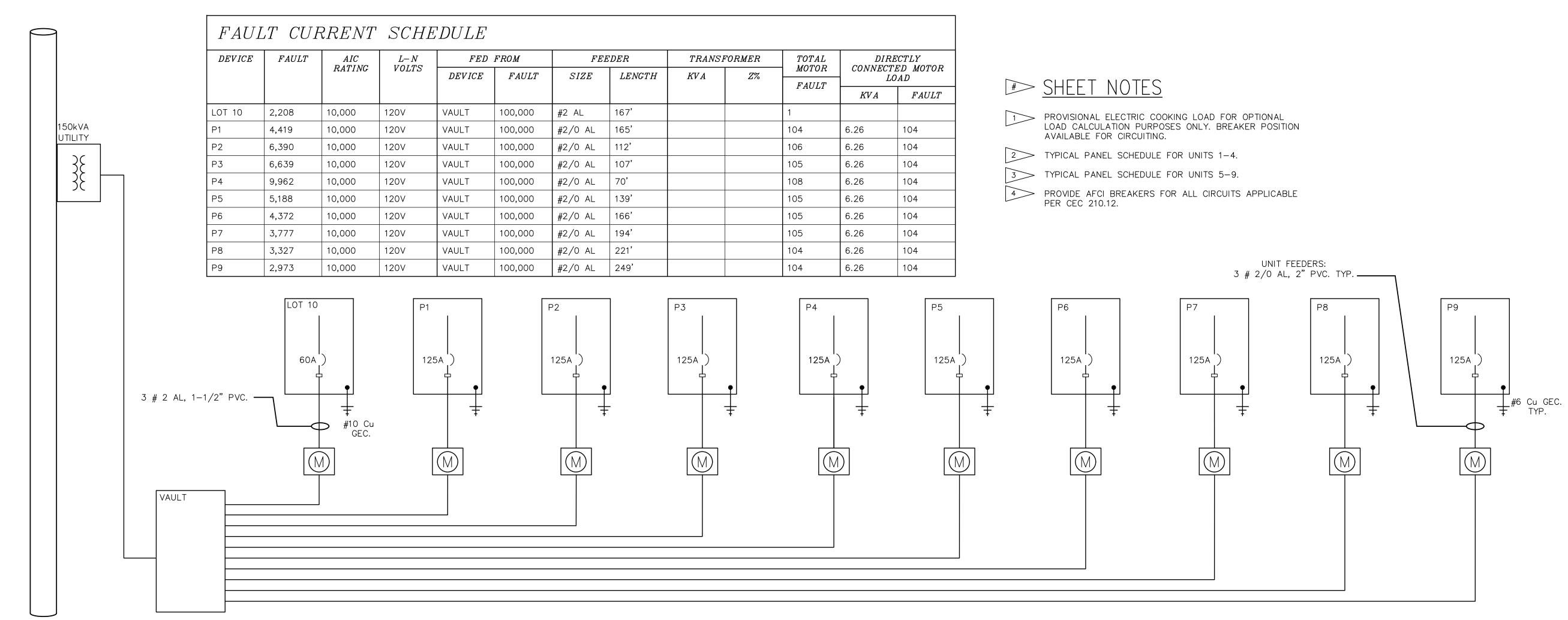
A AC	AMPERE ALTERNATING CURRENT, ABOVE COUNTER	GND GRS	GROUND GALVANIZED RIGID STEEL	QTY RECEPT	QUANTITY PECEPTACIE
AFF	ABOVE FINISHED FLOOR	HID	HIGH INTENSITY IDISCHARGE		RECEPTACLE
AIC	AMPS INTERRUPTING CAPACITY	HP	HEAT TRACE	RI	ROUGH-I N
				RM 	ROOM
AL	ALUMINUM	KCMIL	THOUSAND CIRCULAR MILLS	RTU	ROOFTOP UNIT
AMP	AMPERE	KEC	KITCHEN EQUIPMENT CONTRACTOR	SPEC	SPECIFICATIONS
AWG	AMERICAN WIRE GAUGE	KVA	KILOVOLT AMPERES	SW	SWITCH
BKR	BREAKER	KW	KILOWATT	SWBD	SWITCHBOARD
BLDG	BUILDING	LTG	LIGHTING	SWGR	SWITCHGEAR
BOH	BACK OF HOUSE	MFR	MANUFACTURER	TYP	TYPICAL
С	COIL or CONDUIT	MIN	MINIMUM	ÜĞ	UNDERGROUND
CKT	CIRCUIT	MLO	MAIN LUGS ONLY	ÜL	UNDERWRITERS LABORATORIES
CO	CONDUIT/RACEWAY ONLY	MS	MOTION SENSOR	UON	UNLESS OTHERWISE NOTED
CT	CURRENT TRANSFORMER	N	NEUTRAL	V	VOLTS
Cu	COPPER	(N)	NEW	V \A/	
				W	WATTS
Cw	COOL WHITE	NEC	NATIONAL ELECTRICAL CODE (NFPA-70)	WW	WARM WHITE
DSD	DUCT SMOKE DETECTOR	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	WP	WATERPROOF
EF	EXHAUST FAN	NT	NEON TRANSFORMER	W/O	WITHOUT
ELEC	ELECTRICAL	NTS	NOT TO SCALE	XÉMR	TRANSFOMER
EMT	ELECTRICAL METALLIC TUGBING	OC	OCCUPANCY SENSOR	XFR	TRANSFER
EQUIP	EQUIPMENT	PB	PUSHBUTTON	7	IMPEDANCE OR ZONE
	EXISTING	PIR	PROXIMITY INFRARED	_	WIII EBYTTOE OIL ZOILE
(E) FLR	FLOOR	PNL	PANEL		
FLUOR	FLUORESCENT	POC	POINT OF CONNECTION		

POINT OF SCALE

POWER

OTE	ROM	LUSH	BUS AM	240/120 MPS 125 NL 100%		3W		AIC as no Main Bkr Lugs stai		SHCEDULE		
KT #	CKT BKR	CIRCUIT DESCRIPTION	I		KVA	CKT #	CKT BKR	CIRCUIT DESCRIPTION)N) KVA	
1	20/1	CO/SD, LIGHTING, RE		0.753	В	2	20/1	FAN/LIGHT COMBO,		1.36	В	
3	20/1	SMOKE EXHAUST FAN, GARAGE DOOR, LIGHTING, RECEPTACLE			1.7	4	20/1	LIGHTING, RECEPTA	CLE		0.92	
5 7	30/2	EV CHARGER	LL	2.88	2.88	6 8	20/1 20/1	EXHAUST FAN, LIGH		CLE	0.63	
9 11 3	20/1 30/2 I	WASHER DRYER		1.5	2.5	10 12 14	20/1 20/1 -/2	GAS STOVE LIGHTING, RECEPTA ELECTRIC COOKING		0.1	0.8	
5	20/1 20/1	SPARE EXHAUST FAN, LIGHT		0.394	0	16 18	 20/1	RECEPTACLE	7	0.18	4	
19 21 23	20/1 20/1 20/1	DISHWASHER, DISPOS KICTHEN KICTHEN, REFRIG	DAL	1.5	1.8	20 22 24	20/2 25/2	GAS WATER HEATE SOLAR BREAKER	к	0	0.1	
25 27	20/1 20/1	HOOD LIGHTING, RECEPTAC	LE	0.4	0.78	26 28	20/2	FC, OAC		0	2.1	
29	20/1	LIGHTING, RECEPTAC	LE	0.925		30	ĺ	TOTAL 0011150	TED 1814 DV DV	2.1	40:	
OPTIONAL DWELLING UNIT CALCULAT LIGHTING AND RECEPTACLES SMALL-APPLIANCE LAUNDRY APPLIANCES ELECTRIC COOKING MOTORS		LIGHT SMAL LAUN APPLI	- HTING AND RECEPTACLES ALL—APPLIANCE JNDRY PLIANCES ECTRIC COOKING	CONN KVA 6.78 2, (3) 1.5 12.7 8) 261 SF 3 VA/SF)		UF O\ MAX TOTA	P TO 10 /ER 10 K HEATING L LOAD	CONN KVA D KVA 10 VA 22.3 OR COOLING	CALC KVA 10 8.94 4.27 23.2 96.7 A	(100%) (40%)	(3))
		6.78 ² , (3 3 1.5 12.7				F) UF OV MAX TOTA	F) UP TO 10 OVER 10 K MAX HEATING TOTAL LOAD	GENERAL LOAD F) UP TO 10 KVA OVER 10 KVA 22.3 MAX HEATING OR COOLING	GENERAL LOAD F) UP TO 10 KVA 10 10 OVER 10 KVA 22.3 8.94 MAX HEATING OR COOLING 4.27 TOTAL LOAD 23.2	GENERAL LOAD F) UP TO 10 KVA 10 10 (100%) OVER 10 KVA 22.3 8.94 (40%) MAX HEATING OR COOLING 4.27 (220.82(C)) TOTAL LOAD 23.2		

	$\frac{3}{3}$											
	NTING FL FROM	LUSH	VOLTS BUS AMI NEUTRAL	PS 125		W		AIC AS N MAIN BKR LUGS STA		SHCE	DULE	
CKT	CKT			LOAD	KVA	CKT	CKT				LOAD	KVA
#	BKR	CIRCUIT DESCRIPTION		Α	В	#	BKR	CIRCUIT DESCRIPTI	ON		Α	В
1	20/1	CO/SD, LIGHTING, RESMOKE	CEPTACLE,	1.41		2	30/2	DRYER			2.5	
3	20/1	GARAGE DOOR, LIGHT	ING, RECEPTACLE		1.32	4	l					2.5
5	20/1	KICTHEN		1.5		6	20/1	GAS STOVE			0.1	
7	20/1	KICTHEN, KITCHEN, R			1.5	8	20/1	SPARE				0
9	20/1	DISHWASHER, DISPOS	AL	1.8	0.4	10	30/2	EV CHARGER			2.88	0.0
11	20/1 20/1	HOOD SPARE		0	0.4	12 14	 -/2	ELECTRIC COOKING	2 LOAD 1		4	2.8
15	20/1	EXHAUST FAN, LIGHTI	NG RECEPTACLE	'	0.394	16	-/2 	LLECTRIC COOKING	LOND		7	4
17	20/1	LIGHTING, RECEPTACL	· · · · · ·	0.925	0.001	18	20/1	RECEPTACLE			0.18	
19	20/1	LIGHTING, RECEPTACL			0.925	20	20/2	SPARE				0
21	20/1	EXHAUST FAN, LIGHTI	NG, RECEPTACLE	0.409		22	ĺ				0	
23	20/1	FAN/LIGHT COMBO, R			1.72	24	25/2	SOLAR BREAKER				0
25	20/1	EXHAUST FAN, LIGHTI		1.01		26					0	_
27	20/1	EXHAUST FAN, LIGHTI	NG, RECEPTACLE	4.5	0.618	28	20/2	FC, OAC			0.4	2.
29	20/1	WASHER		1.5		30	l				2.1	
								TOTAL CONNEC	CTED KVA BY PI	HASE	20.3	18.
OPTIC	DNAL DW	ELLING UNIT CALCULAT	TON (NEC 220.82) CONN KVA					CONN KV	'A CALC KVA	_		
LIGH	HTING AN	ID RECEPTACLES		261 SF VA/SF)			RAL LOA		10	(100	%)	
SMALL-APPLIANCE 3		V/1/ 31)					8.9 4	(40%	•			
LAUNDRY 1.5						OR COOLING	4.2	•	.82(C)(1))		
APP	PLIANCES		12.7			T	L LOAD		23.1	-	`	
	CTRIC CO	OOKING	8				L LOAD NCED LO)AD	23.1 96.4 A			
МОТ	ORS		0.4			DALA	MINOLD LC		30.7 A			
TOT	AL GENE	RAL LOAD	32.3									

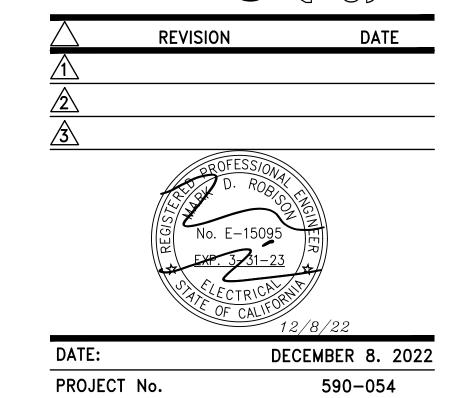


ONE-LINE DIAGRAM

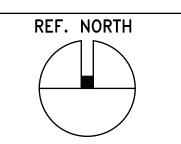




NEW DEVELOPMENT: CHEENEY ST TOWNHOUSES 1249 CHEENEY ST. SANTA CLARA, CA 95054



ONE-LINE DIAGRAM, PANEL & FAULT SCHEDULES



E1.00

١.	nel OT	10	ROOM MOUNTING SURFACE FED FROM VAULT NOTE NEMA 3R ENCLO	BUS NEU	AMF	240/120V PS 60 100%	2P 3W	AIC 10,000 Main BKR 60 Lugs standard
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CK1 #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1 3 5 7 9 11 13 15 17 19 21 23	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0 0 0 0 0 0 0 0 0	SPARE		2 4 6 8 10 12 a 14 b 16 a 18 c 20 a 22 b 24	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0 0 0 0 0 0 0 0 0 0 0	SPARE
		-	CONN CALC KVA KVA		BAL PH	AL LOAD ANCED L ASE A ASE B		CALC KVA 0 0 A 0.00% 0.00%

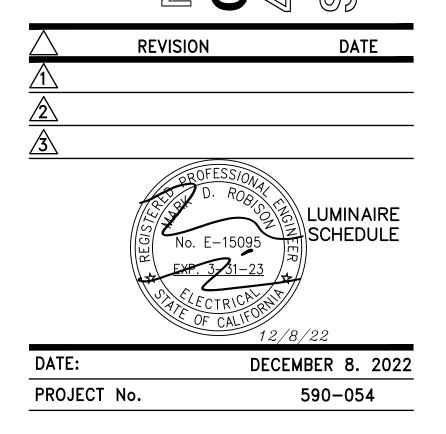
CALLOUT	SYMB0L	MOUNTING	DESCRIPTION	MODEL	VOLTAGE	LAMPING	WATTAGE	NOTES
L1	0	CEILING	GEN. LED LIGHT	TBD	120	(1) LED	14	
L2	Ю	WALL	GEN. LED LIGHT	TBD	120	(1) LED	14	
L3		CEILING	LED DOWNLIGHT	TBD	120	(1) LED	25	
L5	——	CEILING	8' LED STRIP	TBD	120	(1) LED	40	
L6	0	CEILING	4" LED DOWNLIGHT	TBD	120	(1) LED	15	
L7	δ	WALL	EXT. LED LIGHT	TBD	120	(1) LED	15	W/ INTEGRAL PHOTOCEL AND MOTION SENSOR
L8	H	WALL	LED VANITY LIGHT	TBD	120	(1) LED	25	
L10	0	CEILING	WET RATED LED SHOWER LIGHT	TBD	120	(1) LED	20	
L11	\ \ \ \ \ \	CEILING	FAN/LIGHT COMBO	TBD	120	(1) LED	100	

DEVICE	1	FEEDER		BRANCH CIRC	UIT	TOTAL VOLTAGE DROP	FEEDER VOLTAGE DROP
	VOLTAGE DROP	WIRE SIZE	LENGTH	MAX VOLTAGE DROP	WIRE SIZE		
UTILITY	0%		_	_	_	0%	0%
VAULT	0%	(3)#400kcm AL	il	-	_	0%	0%
LOT 10	0%	#2 AL	167'	_	_	0%	0%
P1	2.1%	#2/0 AL	165'	1.42% (CKT 2)	#12	3.52%	2.1%
P2	1.43%	#2/0 AL	112'	1.42% (CKT 2)	#12	2.85%	1.43%
Р3	1.37%	#2/0 AL	107'	1.42% (CKT 2)	#12	2.8%	1.37%
P4	0.78%	#2/0 AL	61'	1.42% (CKT 2)	#12	2.2%	0.78%
P5	1.77%	#2/0 AL	139'	1.79% (CKT 9)	#12	3.56%	1.77%
P6	2.12%	#2/0 AL	166'	1.79% (CKT 9)	#12	3.91%	2.12%
P7	2.47%	#2/0 AL	194'	1.79% (CKT 9)	#12	4.26%	2.47%
P8	2.82%	#2/0 AL	221'	1.79% (CKT 9)	#12	4.61%	2.82%
P9	3.18%	#2/0 AL	249'	1.79% (CKT 9)	#12	4.96%	3.18%

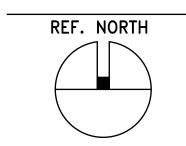




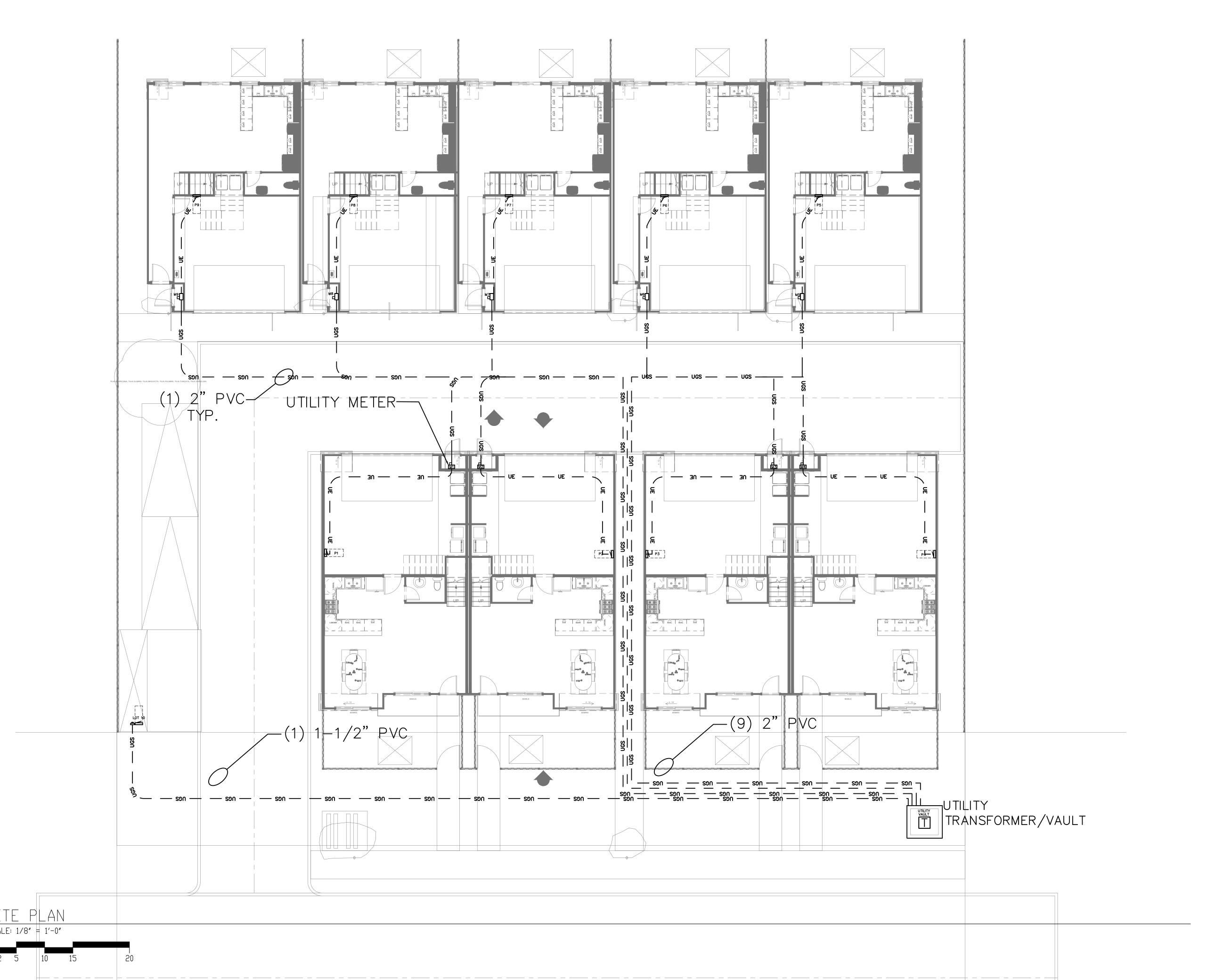
ENEVELOPMENT: ENEX ST TOWNHOUSE CHEENEY ST.



LUMINAIRE SCHEDULE



E1.01





CONSTRUCTION INC.
GENERAL CONTRACTOR & ENGINEER
101 South Santa Cruz Ave., #33192

Los Gatos, CA 95030

ST TOWNHOUSES

REVISION DATE

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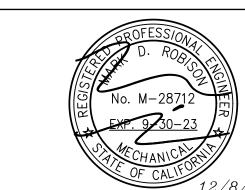
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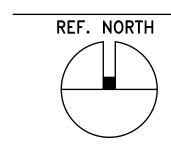
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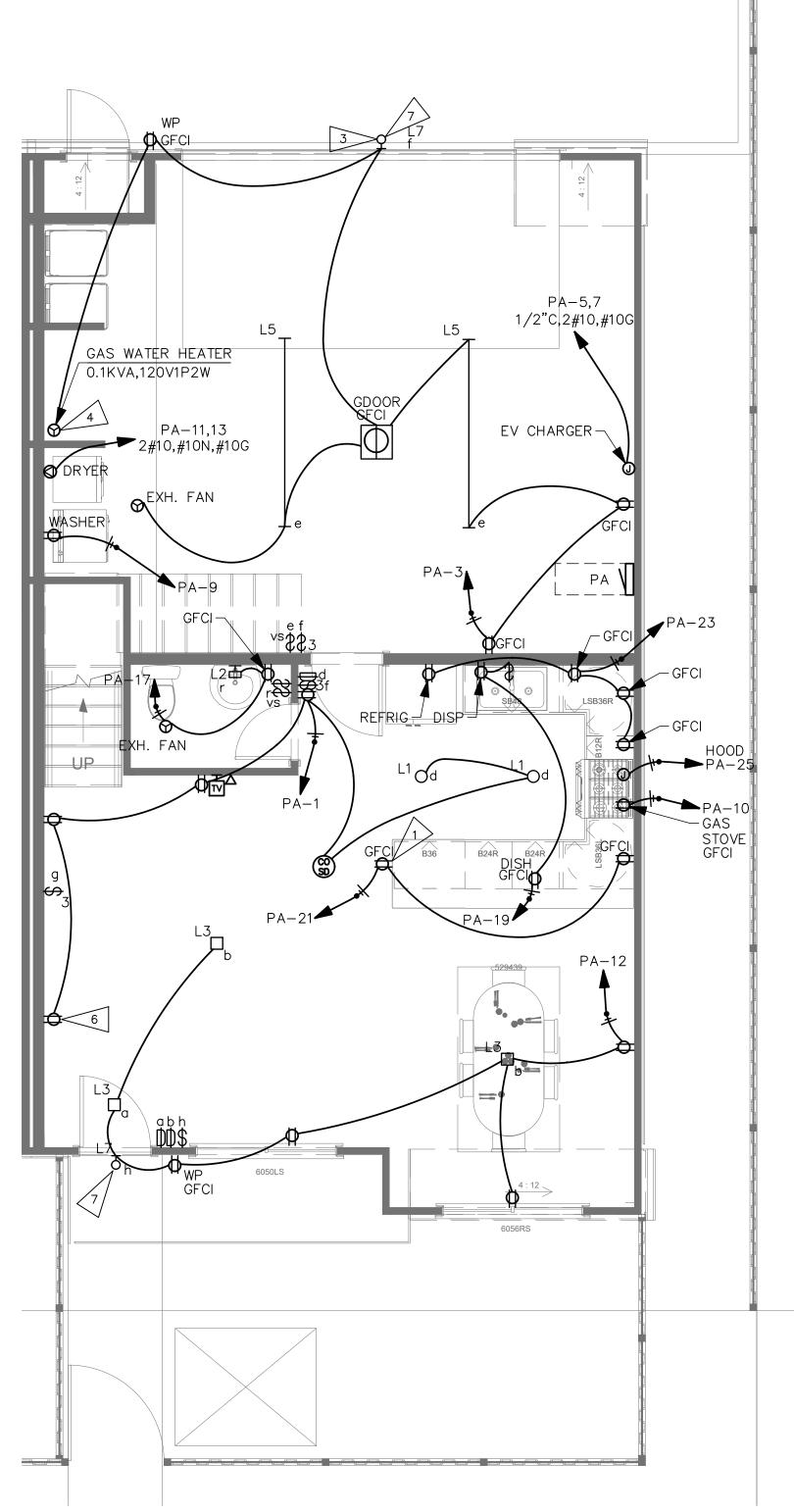
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 DECEMBER 8. 2022

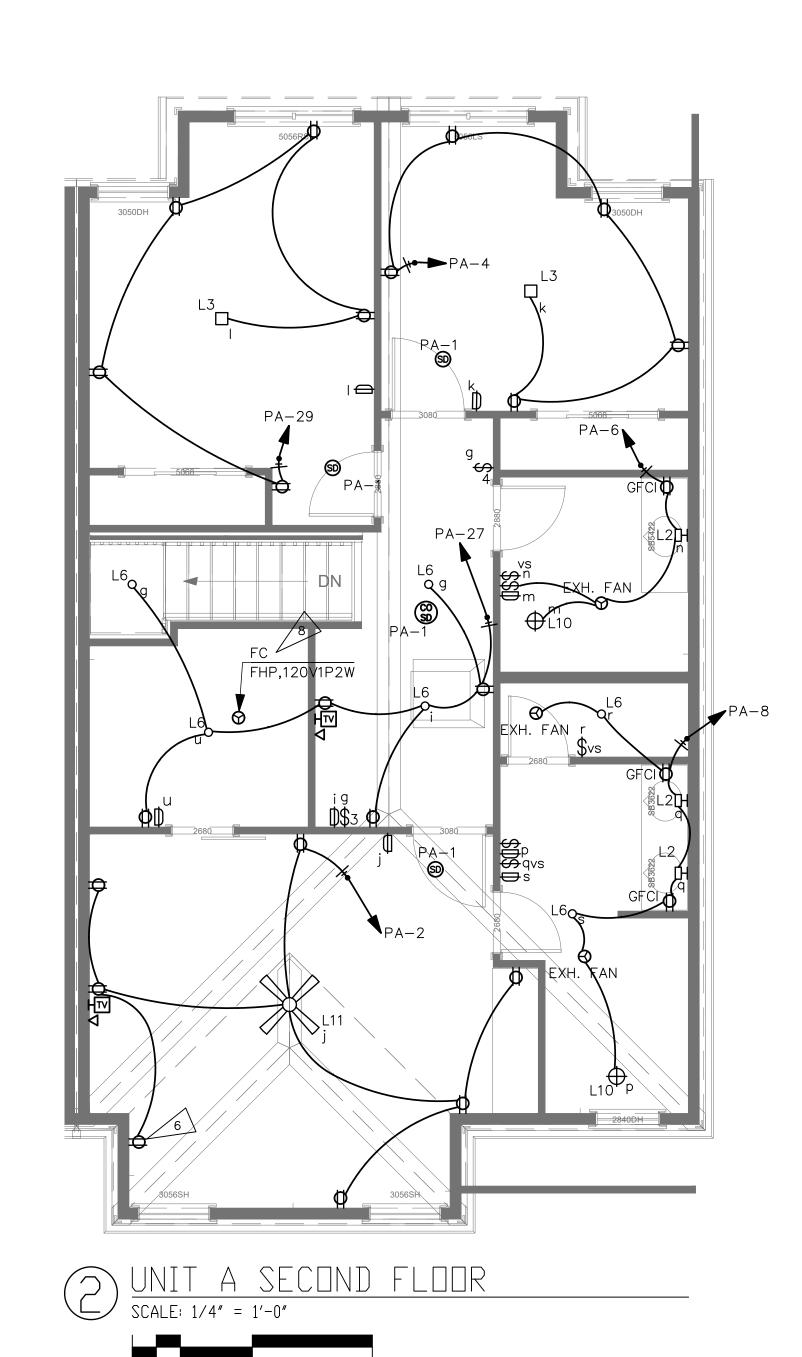
 PROJECT No.
 590-054

SITE PLAN



E2.00







 $\overline{\text{SCALE: } 1/4'' = 1'-0''}$

OAC 4KVA,240V2P2W PA-28,30

6" MAX COUNTERTOP OVERHANG FROM BASE CABINET.
MOUNT RECEPTACLE WITHIN 12" OF COUNTERTOP
SURFACE.

4:12

2 REQUIRED SOLAR READY ZONE PER TITLE 24 110.10.

3 ALL OPENINGS AROUND PENETRATIONS THROUGH EXTERIOR WALLS AND SILL PLATES SHALL BE SEALED FOR RODENT PROOFING. TYP.

TIE TO GARAGE CIRCUIT IF GAS WATER HEATER REQUIRES ELECTRICAL CONNECTION.

5 PROVIDE DOUBLE HASP LOCKING ARRANGEMENT OR UTILITY LOCK BOX FOR UNIT UTILITY ROOM DOORS.

6 PROVIDE TAMPER PROOF RECEPTACLES PER CBC 406.12.

OUTDOOR LIGHTING SHALL BE INTEGRALLY CONTROLLED BY BOTH PHOTOCELL CONTROL AND MOTION SENSOR

8 FC POWER FED FROM OUTDOOR UNIT

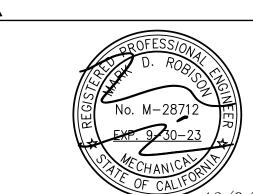




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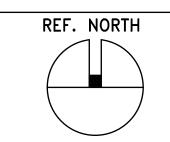
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REVISION DATE



DATE:	DECEMBER 8. 2022
PROJECT No.	590-054

TYPICAL UNIT POWER PLAN



E3.00

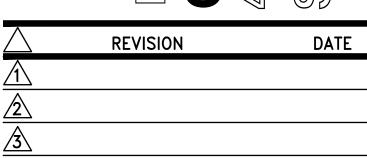


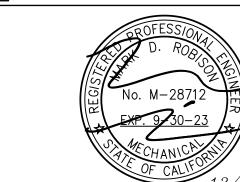


CONTACT: ARIK ESPINELI

CONSTRUCTION INC. GENERAL CONTRACTOR & ENGINEER 101 South Santa Cruz Ave., #33192 Los Gatos, CA 95030

WELOPMENT: **EY ST TOWNHOUSE**HEENEY ST.

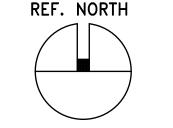


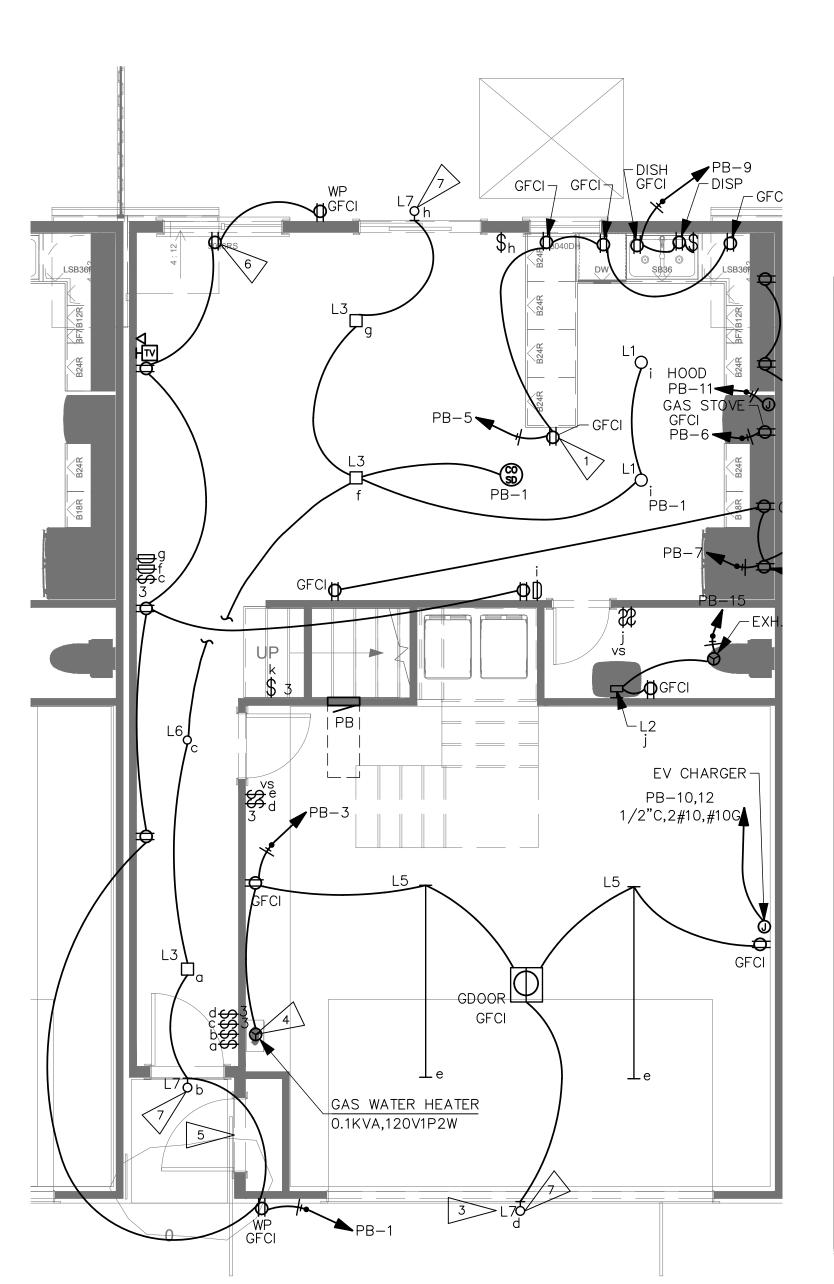


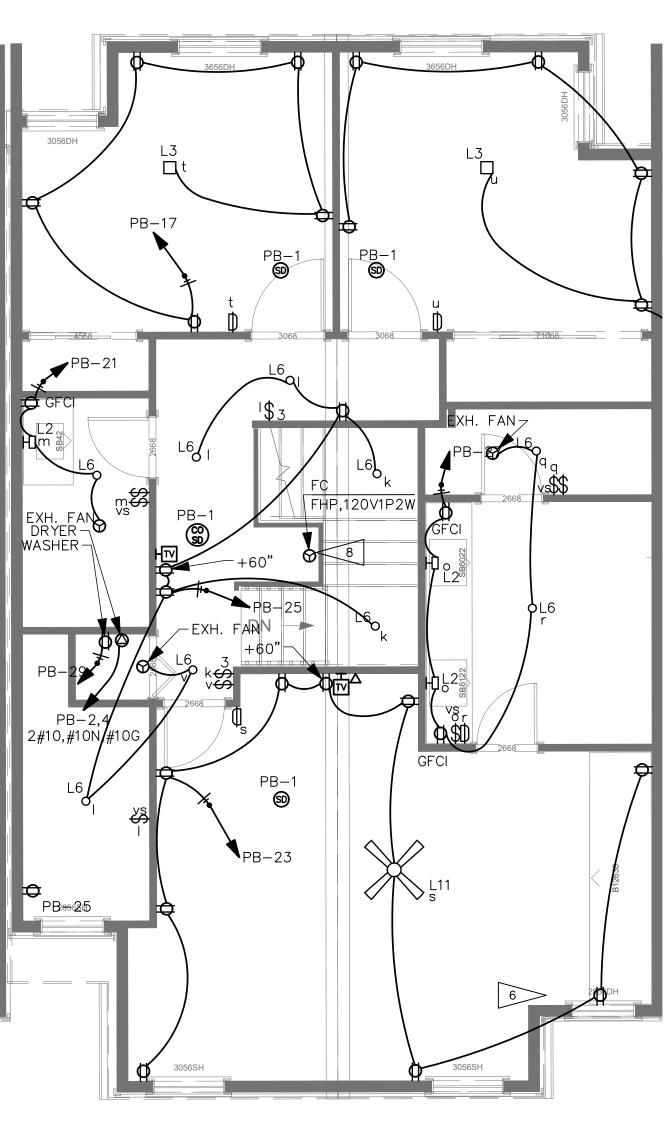
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	PROJECT	No.	590-	-05	4

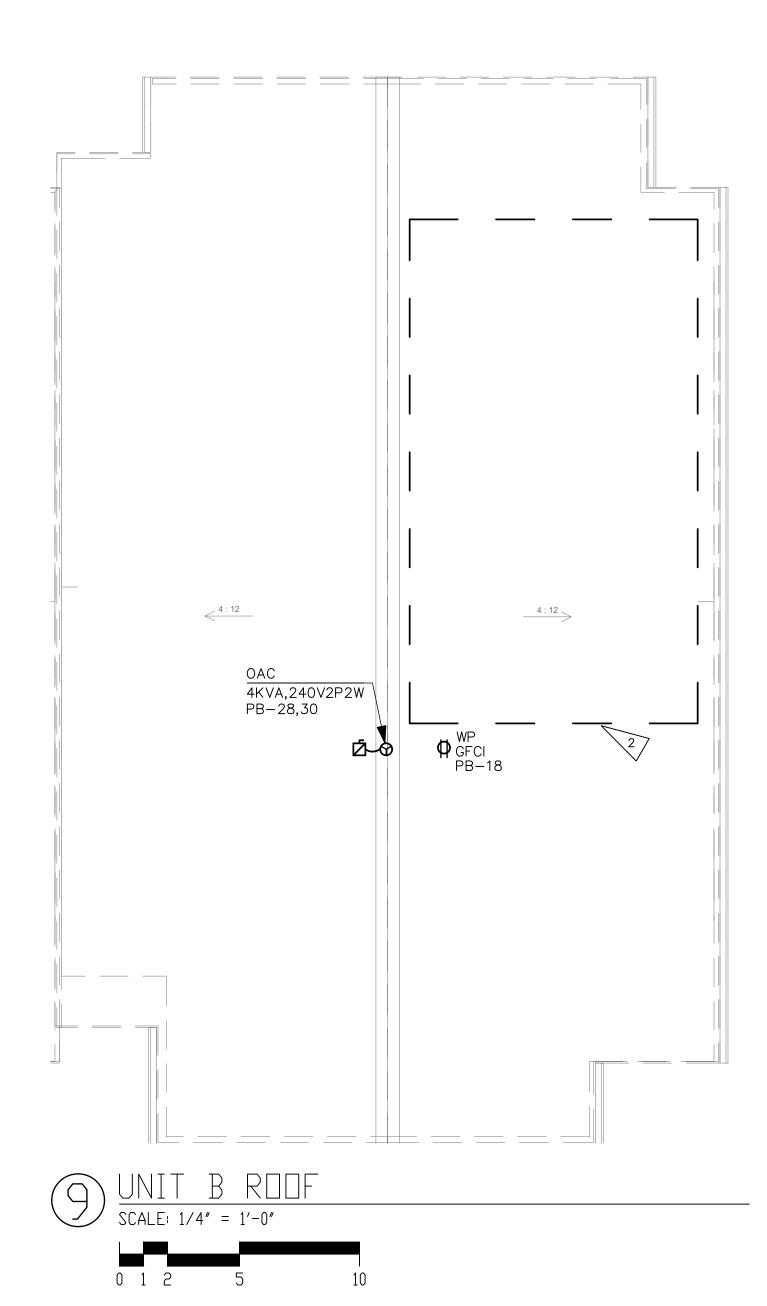
TYPICAL UNIT POWER PLAN

E3.01









#> SHEET NOTES

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8 FC POWER FED FROM OUTDOOR UNIT

SCALE: 1/4'' = 1'-0''

SCALE: 1/4'' = 1'-0''

REF. NORTH

<u>GENERAL NOTES - MECHANI</u>CAL 1. REFERENCE TO RELATED WORK: "REF" INDICATIONS

- DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL, LANDSCAPE, OR KITCHEN), OR ITEM BASED ON A SPECIFIC MANUFACTURER'S DIMENSIONS (VERIFY).
- 2. ELECTRICAL CHARACTERISTICS: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS (VOLTAGES, ETC. OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.
- CODES: COMPLETE INSTALLATION OF THE MECHANICAL SYSTEM SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL
- PREPARE AND SUBMIT FOR REVIEW A SHOP DRAWING BASED ON FINAL STRUCTURAL SHOP DRAWINGS FOR LOCATING AND ROUTING ALL DUCTWORK, DAMPERS, EQUIPMENT, PIPING, ETC. A. COORDINATE FLOOR AND BEAM PENETRATIONS WITH
 - STRUCTURAL B. COORDINATE FINAL LOCATION AND ROUTING WITH CEILING, LIGHTS, WALLS, FIRE SPRINKLER PIPING,
- AND OTHER TRADES WORK. C. INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING, EQUIVALENT DUCT SIZING EXCHANGE, RELOCATING, ETC. AS REQUIRED FOR A COMPLETE OPERATING
- MECHANICAL SYSTEM. D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.
- MECHANICAL CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITHIN THE STRUCTURE.
- ACCESS DOORS: COORDINATE WITH ARCHITECT AND LOCATE ALL ACCESS DOORS ON SHOP DRAWINGS PRIOR TO BEGINNING OF CONSTRUCTION. ACCESS DOORS IN FIRE RATED STRUCTURE SHALL BE FIRE RATED. VERIFY ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO BIDDING.
- 7. RATED PENETRATION: DUCT PENETRATIONS THROUGH RATED ENCLOSURES SHALL BE FIRE/SMOKE DAMPERED PER THE LATEST EDITION OF THE UNDERWRITERS LABORATORIES(UL) FIRE RESISTANCE WITH HOURLY RATINGS FOR THROUGH-PENETRATION FIRE STOPS SYSTEM VOLUME #2, OR SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S UL LISTINGS (3M OR EQUIVALENT). DETERMINE REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO BID.
- 8. EXHAUST OUTLETS: SOURCE-SPECIFIC FANS SHALL BE VENTED TO OUTDOORS WITH A MINIMUM 3' CLEARANCE BETWEEN VENT OUTLETS AND BUILDING OPENINGS, AND 10' MINIMUM BETWEEN VENT OUTLETS AND MECHANICAL AIR INTAKES.
- ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR ROOF CAP, ROOF CURB, ROOF DRAIN, AND VTR
- 10. EXPOSED PIPING: PROVIDE CHROME PLATING FOR EXPOSED PIPING IN FINISHED ROOMS.
- 11. PENETRATIONS: PROVIDE ESCUTCHEON PLATES FOR EXPOSED PIPING PENETRATIONS AND SHEET METAL FLASHING FOR EXPOSED DUCTWORK PENETRATIONS.

12. SHAFT AND PLENUM CONNECTIONS: SEAL CONNECTIONS

TO AIR SHAFTS AIRTIGHT. PROVIDE AIRTIGHT SEAL

- AROUND PENETRATIONS IN AIR PLENUMS. 13. LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF
- MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.
- 14. CABLE TRAYS: DUCTWORK AND PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" ABOVE AND TO THE SIDE OF CABLE TRAYS.
- 15. MOTORS: COMPLY WITH ENERGY CODE ENFORCED BY AHJ FOR MINIMUM EFFICIENCIES UNDER FULL LOAD.
- 16. ACCESS CLEARANCES FOR MAINTENANCE AND REPLACEMENT: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE LOCATIONS OF MECHANICAL WORK AND WORK OF OTHER TRADES TO PROVIDE ACCESS CLEARANCES FOR SERVICE AND MAINTENANCE.

CONTRACTOR SUBSTITUTIONS & REVISIONS

CONTRACTOR SUBSTITUTIONS & REVISIONS: PLEASE SUBMIT PROPOSALS FOR SUBSTITUTIONS OR REVISIONS

DATA AND/OR SPECIFICATION FOR THAT ITEM ARE CONSIDERED PART OF SPECIFICATION. ENGINEERING COSTS

PERMITTING COSTS. CONTRACTOR SHALL BE RESPONSIBLE FOR OTHER COSTS ASSOCIATED WITH UNFORESEEN

FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL OR DOING WORK. FOR EQUIPMENT THAT IS

SCHEDULED BY MANUFACTURER'S NAME AND CATALOG DESIGNATIONS, THE MANUFACTURER'S PUBLISHED

FOR REVISING MEP PLANS SHALL BE ADDRESSED IN THE COST ANALYSIS OF THE SUBSTITUTION

PROPOSAL. CONTRACTOR TO COORDINATE WITH ENGINEER AND DETERMINE ASSOCIATED DESIGN AND

COORDINATION REQUIREMENTS

1. PIPING: COORDINATE WITH STRUCTURAL FOR EXACT

LOCATION OF ALL STRUCTURAL FRAMING AND FOOTINGS AND FINALIZE THE EXACT ROUTING OF ALL PIPES WITH STRUCTURAL AND AT THE SITE PRIOR AND DURING THE CONSTRUCTION.

GENERAL NOTES

- DUCTWORK: LOCATE AND COORDINATE THE EXACT LOCATION OF DUCTWORK WITH STRUCTURAL PLANS AND WITH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION OF ANY STRUCTURE OR EQUIPMENT COORDINATE WITH FRAMING CONTRACTOR TO ASSURE JOIST SPACES LINE UP WHEN DUCTWORK MUST PASS
- THROUGH DIFFERENT JOIST SPACES. ADJUSTMENTS: ALL EQUIPMENT, MOTORS, FANS GAS BURNERS, IGNITION DEVICES, DRIVES, ETC. SHALL BE ADJUSTED AND BALANCED TO OPERATE AT SPECIFIED RATINGS AS REQUIRED FOR THIS PROJECT SITE AND ACCOUNTING FOR ELEVATION ABOVE SEA LEVEL.
- 4. APPROVALS: MECHANICAL AND PLUMBING EQUIPMENT SHALL BE APPROVED FOR INSTALLATION IN THE PROJECT LOCATION AND SHALL HAVE ALL CERTIFICATIONS AND RATINGS TO MEET ALL ENERGY POLLUTION, ENVIRONMENTAL, SEISMIC, ETC. CODES AND REGULATIONS. THE CONTRACTOR SHALL COORDINATE WITH HIS MANUFACTURE SUPPLIERS AND SHALL INCLUDE ALL COSTS REQUIRED TO MEET THESE REQUIREMENTS IN HIS BID.
- FIRE PROTECTION: CONTRACTOR SHALL PROVIDE A FULLY DESIGNED FIRE PROTECTION SPRINKLER SYSTEM IN COMPLIANCE WITH NFPA AND LOCAL CODES. PROVIDE DESIGN, PERMITS, MATERIALS, INSTALLATION, TESTING AND ALL OTHER FOR A FULLY OPERATIONAL SYSTEM. LOCATION OF ALL PIPING TO BE COORDINATED WITH OTHER TRADES.
- FIREPLACES: COORDINATE WITH THE GENERAL CONTRACTOR TO DETERMINE GAS FIREPLACE FLUE AND COMBUSTION AIR DUCTWORK REQUIREMENTS PRIOR TO BIDDING.

PIPING NOTES

- DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE.
- REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION SIZES.
- OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.
- DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE.
- REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- CONDENSATE DRAIN: PROVIDE A P-TRAP FOR EACH HVAC UNIT CONDENSATE PAN WITH PLUG TEES FOR CLEANING. CONDENSATE DRAINS SHALL BE DISCHARGED TO AN INDIRECT WASTE OR OUTSIDE.

INSULATION/LINING NOTES

1. ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ.

PLAN NOTES

- 1. DUCTWORK SHALL BE METALLIC DUCTWORK
- TEST AND BALANCE WORK SHALL BE PERFORMED BY AN INDEPENDENT TEST AND BALANCE AGENCY. PROVIDE (3) COPIES OF TEST AND BALANCE REPORT TO OWNER.
- COORDINATE DUCTWORK WITH MISCELLANEOUS OBSTRUCTIONS IN CEILING SPACE.
- RESTROOM EXHAUST SHALL BE A MINIMUM OF 10' FROM ANY MECHANICAL OUTSIDE AIR INTAKES.
- ROUTE DUCTWORK UNDERNEATH JOISTS UON.
- TRANSITION DUCT UNDER BEAMS AND DUCTS. FIELD VERIFY AVAILABLE CEILING CAVITY DIMENSIONS.
- 7. COORDINATE MOUNTING HEIGHT OF DIFFUSERS WITH ARCHITECTURAL PLANS.

SHEET METAL NOTES

- 1. REFERENCE: SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, CURRENT EDITION.
- 2. CLEARANCE: COORDINATE DUCTWORK WITH

MISCELLANEOUS OBSTRUCTIONS IN CEILING SPACE.

- ROUND ELBOWS AND OFFSETS: FULL RADIUS (R/D =1.5), 5-PIECE SEGMENTED OR STAMPED. REFER TO SMACNA HVAC FIG 2-7, 3-3. DO NOT USE ANGLED OFFSET (TYPE 1). MITERED OFFSET (TYPE 2) MAY BE USED UP TO 30 DEGREE OFFSET ANGLE
- ROUND TEES AND LATERALS: CONICAL TEE PER SMACNA HVAC FIG 3-5: DO NOT USE STRAIGHT TEE: DO NOT USE CONICAL SADDLE TAP FOR EXPOSED DUCTWORK IN FINISHED SPACES. 90-DEGREE TEE WITH OVAL TO ROUND TAP, LATERAL, AND 45-DEGREE RECTANGULAR LEAD-IN PER SMACNA HVAC FIG 3-4.
- 5. RECTANGULAR ELBOWS AND OFFSETS: FULL RADIUS WHERE SPACE PERMITS, R/W = 1.5; OTHERWISE USE SQUARE CORNER ELBOW WITH TURNING VANES.
- RECTANGULAR DIVIDED FLOW FITTINGS: USE GENERALLY, EXCEPT BRANCHES TO TERMINALS; SMACNA HVAC FIG 2-5, TYPES 1, 2, 4A, AND 4B. DO NOT USE TYPE 3.
- TURNING VANES: H.E.P. MANUFACTURER OR APPROVED HIGH EFFICIENCY PROFILE AIRFOIL TYPE FOR RECTANGULAR SQUARE THROAT ELBOWS. ACOUSTICAL TYPE FOR RETURN AIR MITERED ELBOWS.
- TAKEOFFS TO OPENINGS: CONICAL TYPE WITH VOLUME DAMPER FOR ROUND DUCT BRANCHES PER SMACNA HVAC FIG 2-6, MINIMUM INLET DIAMETER 2 INCHES LARGER THAN DUCT SIZE. 45 DEGREE ENTRY FITTING FOR RECTANGULAR DUCT BRANCHES PER SMACNA HVAC
- FLEXIBLE CONNECTIONS: PROVIDE AT EACH DUCT CONNECTION TO FANS, PACKAGED HVAC EQUIPMENT, EXTERNALLY ISOLATED AIR HANDLING UNITS, FAN COIL UNITS, AND SIMILAR EQUIPMENT. EXCEPTION: EQUIPMENT IN CORRIDOR CEILING SPACES WHERE FIRE RATING IS REQUIRED.

- ATTACHMENTS: AIR DISTRIBUTION OUTLETS AND LOUVERS SHALL HAVE ALL REQUIRED ACCESSORIES AND ATTACHMENTS FOR A COMPLETE CONNECTION TO THE SPECIFIC TYPE OF STRUCTURE THAT THEY ARE BEING ATTACHED TO. THIS INCLUDES, BUT IS NOT LIMITED TO, EXTERIOR BRICKS, GWB WALLS, GWB CEILING, ETC.
- DUCTWORK: DUCTWORK SHALL BE SMOOTH SHEET METAL (CLASS-1). DUCTWORK THROUGH FIRE RATED STRUCTURE AND FLOOR SHALL BE MIN. 26 GA. STEEL MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE 5'-0". UNLESS OTHERWISE NOTED ON DRAWINGS. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- VOLUME DAMPERS: PROVIDE AN ACCESSIBLE MANUAL VOLUME DAMPER FOR EACH SUPPLY, RETURN, OSA, AND EXHAUST OPENING, LOCATED AS FAR UPSTREAM AS POSSIBLE FROM THE OPENING. PROVIDE A MANUAL VOLUME DAMPER FOR BRANCH MAINS SERVING MORE THAN ONE OPENING. VOLUME DAMPERS IN NON-ACCESSIBLE CEILINGS SHALL HAVE A CONTROL ARM EXTENDED TO AN ACCESSIBLE LOCATION.
- 4. SEISMIC: PROVIDE SEISMIC RESTRAINTS FOR MECHANICAL EQUIPMENT, PIPING, AND DUCTWORK PER SMACNA AND LOCAL REGULATIONS.
- 5. FILTER CLEARANCE: PROVIDE ADEQUATE CLEARANCE FOR CHANGING AIR FILTERS.
- 6. DUCTWORK AND PIPING OUTSIDE OF MECHANICAL ROOMS SHALL BE CONCEALED, COORDINATE WITH THE GENERAL CONTRACTOR TO FUR-OUT AS REQUIRED.
- 7. FIRE RATINGS: RATED FLOOR/CEILING JOINT SPACES HAVING DUCTWORK INSIDE THEM SHALL BE FIRE/SMOKE PROTECTED TO MAINTAIN THE 1-HOUR FLOOR/CEILING RATING PER LOCAL JURISDICTIONS. EXHAUST DUCTWORK PENETRATING THE 1-HOUR ROOF/CEILING OR FLOOR/CEILING ASSEMBLY SHALL HAVE ACCESSIBLE CEILING FIRE DAMPERS. ALTERNATIVELY, THE EXHAUST DUCTWORK SHALL BE ROUTED INSIDE A RATED SHAFT TO PROTECT THE CEILING/ROOF RATING PER THE LOCAL JURISDICTIONS.
- FIRESTOP: PIPE, DUCT AND CONDUIT PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRE AND SMOKE STOPPED PER CODE.
- CORRIDOR THERMOSTAT: PROVIDE TAMPERPROOF THERMOSTATS IN CORRIDORS. DO NOT PROVIDE PLASTIC GUARDS TO MAKE THE THERMOSTATS TAMPERPROOF. PROVIDE BLANK SECURABLE THERMOSTAT COVERS.

PRE-CON MEETING NOTES

CONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE ENGINEER FOR THE PURPOSE OF REVIEWING THE WORK PRIOR TO ORDERING ANY EQUIPMENT OR PERFORMING ANY WORK. THE MEETING SHALL BE LOCATED AT THE PROJECT SITE ON A DATE AND TIME TO BE MUTUALLY AGREED. THE MEETING WILL BE A WORKING SESSION. THE MEETING WILL BE FACILITATED BY THE ENGINEER AND THE AGENDA WILL INCLUDE A DETAILED REVIEW OF THE PLANS AND SPECIFICATIONS, CROSS CHECK WITH OTHER TRADES FOR COORDINATION ISSUES. REVIEW OF PROPOSED PRODUCTS, REVIEW OF PLANNED MEANS AND METHODS, AND ON-SITE INVESTIGATION OF FIELD CONDITIONS RELATIVE TO EXISTING CONDITIONS THAT COULD AFFECT THE WORK. PERSONS ATTENDING THE MEETING SHALL BE KNOWLEDGEABLE OF THE PROJECT AND SHALL BE THE SPECIFIC PERSONS INTENDED TO CONTINUE WITH THE PROJECT THROUGH TO COMPLETION. IF REQUIRED, REVISED PLANS WILL BE ISSUED THROUGH OFFICIAL CHANNELS. CHANGES IN THE BID PRICE WILL BE DISCUSSED, BUT NO CHANGE ORDERS WILL BE ISSUED UNLESS PROCESSED THOUGH OFFICIAL CHANNELS. IT SHALL BE UNDERSTOOD THAT THE ENGINEER HAS NO AUTHORITY TO ISSUE CHANGE ORDERS.

THE FOLLOWING TRADES SHALL BE REPRESENTED FOR THE MINIMUM TIME INDICATED:

4 HOURS

MECHANICAL SHEET METAL PLUMBING/PIPING ELECTRICAL SPRINKLER

GENERAL CONTRACTOR

4 HOURS 4 HOURS 2 HOURS ALL SESSIONS

ABBREVIATIONS

AIR CONDITIONING UNIT ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION AHU AIR HANDLING UNIT ACCESS PANEL BDD BACKDRAFT DAMPER BHP BRAKE HORSEPOWER BRITISH THERMAL UNIT BTUH PFR HOUR COMMON

CAP CAPACITY CC COOLING COIL CD CEILING DIFFUSER CUBIC FEET PER MINUTE CFM CLG CEILING, COOLING CO CLEANOUT COMB COMBUSTION CONT CONTINUE, CONTROL COP COEFFICIENT OF PERFORMANCE CWS SUPPLY

CHILLED/CONDENSER WATER CWR CHILLED/CONDENSER WATER RETURN DIAMETER DRY BULB, DECIBEL DB DIM DIMENSION DISCH DISCHARGE

DN DOWN EΑ EXHAUST AIR FNTFRING AIR TEMPERATURE EAT EER ENERGY EFFICIENCY RATIO EF EXHAUST FAN EFF EFFICIENCY

EG EXHAUST GRILLE ELEC **ELECTRIC** ESP EXTERNAL STATIC PRESSURE EXH **EXHAUST** EXT EXTERIOR, EXTERNAL **FAHRENHEIT** FCU FAN COIL UNIT

FLR FLOOR FPM FEET PER MINUTE FEET PER SECOND FPS FSD FIRE/SMOKE DAMPER GAL GALLONS GPM GALLONS PER MINUTE

GRD GRILLES, REGISTERS, **DIFFUSERS** GWB GYPSUM WALLBOARD HORIZ HORIZONTAL HP HORSEPOWER HPU HEAT PUMP UNIT

HEAT RECOVERY UNIT HRU HVAC HEATING, VENTILATING, AND AIR CONDITIONING HVU HEATING & VENTILATION HWR HOT WATER RETURN HWS HOT WATER SUPPLY HX HEAT EXCHANGER

INDIRECT DRAIN, INSIDE DIAMETER IN ΚW KILOWATT LONG, LENGTH LB POUND MBH THOUSAND BTU PER HOUR MECH MECHANICAL

MCA MIN. CIRCUIT AMPACITY MOCP MAX. OVER CURRENT PROTECTION MTD MOUNTED OSA OUTDOOR AIR OBD OPPOSED BLADE DAMPER OUTSIDE DIMENSION OR

DIAMETER OPNG OPENING PD PRESSURE DROP. PUMPED POC

POINT OF CONNECTION PRESSURE REDUCING VALVE PSIG POUNDS PER SQUARE IN GAUGE RA RETURN AIR RD ROOF DRAIN REF REFERENCE RF RELIEF FAN

RG RETURN GRILLE REVOLUTIONS PER MINUTE RPM SA SUPPLY AIR SCH SCHEDULE SUPPLY FAN, SQUARE FOOT SENS SENSIBLE

SUPPLY GRILLE SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION SCREENED OPENING STATIC PRESSURE STAINLESS STEEL

SANITARY SEWER **SQUARE** TRANSFER GRILLE TYP TYPICAL UNIT HEATER UNLESS OTHERWISE NOTED UON VENTILATION, VENTILATOR VENT VTR VENT THRU ROOF

WASTE, WATT, WIDE

WET BULB (TEMPERATURE)

SYMBOLS

<u>EQUIPMENT</u>

TRANSMITTER

SMOKE DETECTOR

(EXHAUST FAN SHOWN)

DUCT SMOKE DETECTOR

ROOM THERMOSTAT OR

TEMPERATURE TRANSMITTER

CARBON MONOXIDE SENSOR

ROOM HUMIDISTAT OR HUMIDITY

<u>DUCTWORK</u> TYPICAL EQUIPMENT DESIGNATION DUCT (1ST FIGURE = SIDE SHOWN 18x12 2ND FIGURE = SIDE NOT SHOWN) DOWN DUCT SECTION, POSITIVE PRESSURE DOWN DUCT SECTION, NEGATIVE **PRESSURE** ROUND DUCT SECTION DUCT PENETRATION THRU FLOOR OR ROOF

<u>TERMINALS</u> CD-12x12 OR CD-1 DIFFUSER/GRILLE TYPE, AND VOLUME DAMPER FIRE/SMOKE DAMPER (--◀ = 400 TESIGN CFM (WHERE APPLICABLE) +FSD HORIZ DUCT, -- = VERT DUCT), CEILING DIFFUSER (FLOW ARROWS 2-HR RATED, UON SHOWN FOR NON SYMMETRICAL FIRE DAMPER $(--\blacktriangleleft = HORIZ$ AIRFLOW) \rightarrow FD DUCT, $-- \Leftrightarrow = VERT DUCT), 2-HR$ RATED, UON CEILING RETURN/EXHAUST GRILLE LINEAR DIFFUSER, CEILING OR WALL 90' ELBOW, R/D OR R/W=1.5 MOUNTED (FLOW ARROWS SHOWN

FOR NON SYMMETRICAL AIRFLOW) SQUARE CORNER ELBOW WITH WALL SUPPLY GRILLE (SG) TURNING VANES

WALL RETURN/EXHAUST GRILLE 90' TAKE-OFF OR TEE (RG, EG) TRANSFER GRILLE (TG), DUCT 90' CONICAL TAKE-OFF CONNECTED, WALL MOUNTED W/ OPTIONAL CFM SHOWN TRANSFER GRILLE, CEILING MOUNTED WITH FULL-SIZED LINED 45' LATERAL TAKE-OFF

DUCT CONNECTION TRANSITION OR REDUCER (FOT = <u>PIPING</u> → FLAT ON TOP, FOB = FLAT ON CONDENSATE DRAINAGE BOTTOM) NATURAL GAS - STD. PRESSURE WYE FITTING NATURAL GAS - MEDIUM PRESSURE

PIPE CAP PIPE PLUG ----- FLANGE GATE VALVE (EXISTING ONLY)

OVERFLOW RAIN LEADER (OL)

____OL____

CHECK VALVE

90' DIVERGING RECTANGULAR TEE, EITHER RADIUS OR TURNING VANES BALL VALVE PRESSURE REDUCING VALVE (PRV) PARALLEL FLOW BRANCH BREAK IN PIPING OR DUCTWORK CONNECTION, EITHER RADIUS OR TURNING VANES —— RAIN LEADER (RL)

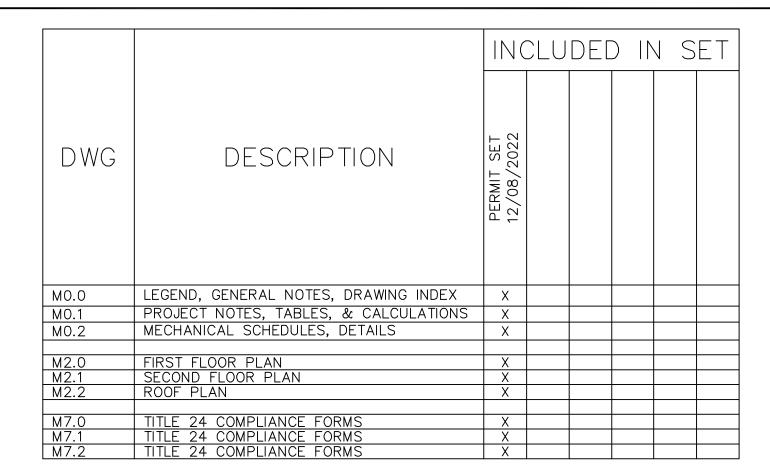
> FLEXIBLE DUCT ROUND DUCT INDICATOR

45° TAPER

90' RECTANGULAR TAKE-OFF WITH

DRAWINGS ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM

DRAWING INDEX





CONTACT: ARIK ESPINELI



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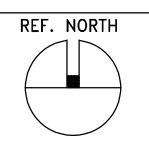
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PROJECT No.

12/8/22 DECEMBER 8. 2022 590-054

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LEGEND, GENERAL NOTES, **DRAWING INDEX**



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ISSUES RESULTING FROM SUBSTITUTIONS OR REVISIONS.

PROJECT NOTES

PROJECT NOTES

- 1. THE PERSON WITH OVERALL RESPONSIBILITY FOR CONSTRUCTION OR THE PERSON RESPONSIBLE FOR THE INSTALLATION OF REGULATED FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES SHALL POST, OR MAKE AVAILABLE WITH THE BUILDING PERMIT(S) ISSUED FOR THE BUILDING, THE REQUIRED INSTALLATION CERTIFICATE(S) FOR FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES REGULATED BY THE APPLIANCE EFFICIENCY REGULATIONS OR PART 6. SUCH INSTALLATION CERTIFICATE(S) SHALL BE MADE AVAILABLE TO THE ENFORCEMENT AGENCY FOR ALL APPROPRIATE INSPECTIONS. THESE CERTIFICATES SHALL:
- 1.1. IDENTIFY FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES REQUIRED TO VERIFY COMPLIANCE WITH THE APPLIANCE EFFICIENCY REGULATIONS AND PART 6.
- 1.2. INCLUDE A STATEMENT INDICATING THAT THE FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES CONFORM TO THE APPLIANCE EFFICIENCY REGULATIONS AND PART 6 AND THE REQUIREMENTS FOR SUCH FEATURES, MATERIALS, COMPONENTS, OR MANUFACTURED DEVICES GIVEN IN THE PLANS AND SPECIFICATIONS APPROVED BY THE LOCAL ENFORCEMENT AGENCY.
- 1.3. STATE THE NUMBER OF THE BUILDING PERMIT UNDER WHICH THE CONSTRUCTION OR INSTALLATION WAS PERFORMED.
- 2. AFTER INSTALLING WALL, CEILING, OR FLOOR INSULATION, THE INSTALLER SHALL MAKE AVAILABLE TO THE ENFORCEMENT AGENCY OR POST IN A CONSPICUOUS LOCATION IN THE BUILDING A CERTIFICATE SIGNED BY THE INSTALLER STATING THAT THE INSTALLATION IS CONSISTENT WITH THE PLANS AND SPECIFICATIONS DESCRIBED IN SEC. 10–103 (A) 2. THE CERTIFICATE SHALL ALSO STATE THE MANUFACTURER'S NAME, MATERIAL IDENTIFICATION, AND THE INSTALLED R-VALUE.
- 3. WITHIN 90 DAYS AFTER ISSUANCE OF CERTIFICATE OF OCCUPANCY RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER. IF ANY CHARACTERISTIC IS MATERIALLY CHANGED BEFORE FINAL CONSTRUCTION AND INSTALLATION, SUCH THAT THE BUILDING MAY NO LONGER COMPLY WITH PART 6, THE BUILDING MUST BE BROUGHT INTO COMPLIANCE, AND SO INDICATED ON AMENDED PLANS AND CERTIFICATE OF COMPLIANCE THAT SHALL BE SUBMITTED FOR PLAN APPROVAL.
- 4. THE BUILDER SHALL PROVIDE THE BUILDING OWNER OR THE PERSON(S) RESPONSIBLE FOR BUILDING MAINTENANCE (IN CASE OF MULTI-TENANT OR CENTRALLY OPERATED BUILDINGS) AT OCCUPANCY THE FOLLOWING:
- 4.1. OPERATING INFORMATION: THE APPROPRIATE CERTIFICATE(S) OF COMPLIANCE AND A LIST OF THE FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES INSTALLED IN THE BUILDING AND INSTRUCTIONS ON HOW TO OPERATE THEM EFFICIENTLY.
- 4.2. MAINTENANCE INFORMATION: REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL MAY BE LIMITED TO IDENTIFYING THE OPERATION AND MAINTENANCE MANUAL.
- 4.3. VENTILATION INFORMATION: A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.
- 5. ANY ROOFING PRODUCT USED AS A COOL ROOF SHALL BE CERTIFIED AND LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF SEC. 10-113 BY THE COOL ROOF RATING COUNCIL (CRRC) AND MEET CONDITIONS SET IN SEC. 118
- 6. DUCT SYSTEMS USED WITH BLOWER TYPE EQUIPMENT WHICH ARE PORTIONS OF A HEATING, COOLING, ABSORPTION, EVAPORATIVE COOLING OR OUTDOOR AIR VENTILATION SYSTEM SHALL BE SIZED IN ACCORDANCE WITH CHAPTER 17 OF THE CALIFORNIA MECHANICAL CODE.
- 7. SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR FOR HEATING, COOLING, OR EVAPORATIVE COOLING SYSTEMS SHALL BE CONDUCTED THROUGH DUCT SYSTEMS CONSTRUCTED OF METAL AS SET FORTH IN THE ANSI/SMACNA 006-2006 HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE, OR ANOTHER APPROVED DUCT CONSTRUCTION STANDARD.
- 8. MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME-SPREAD INDEX NOT GREATER THAN TWENTY-FIVE (25) AND A SMOKE DEVELOPED INDEX NOT GREATER THAN FIFTY (50) WHEN TESTED AS A COMPOSITE PER APPLICABLE TESTING STANDARD.
- 9. WHEN FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, ANY REQUIRED SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS AND SHALL BE CAPABLE OF ACTIVATING THE FIRE ALARM SYSTEM.
- 10. REFRIGERANT SERVICE PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING TYPE TAMPER RESISTANT CAPS OR SHALL BE PROTECTED FROM UNAUTHORIZED ACCESS BY AN ACCEPTABLE MEANS.
- 11. ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE PER BUILDING CODE REQUIREMENTS OR APPLICABLE MANUFACTURER INSTALLATION REQUIREMENTS.
- 12. ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.
- 13. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING, AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM.
- 14. PRIOR TO PERMIT BEING FINALED, A COMPLETE REPORT OF THE COMMISSIONING PROCESS SHALL BE PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE AND FORM 5.410 VERIFICATION SHALL BE COMPLETED AND PROVIDED TO THE INSPECTOR.

THROUGH PENETRATIONS FOR 4" DUCT

PER EXCEPTION TO CBC SECTION 717.6.1, A DUCT IS PERMITTED TO PENETRATE THREE FLOORS OR LESS WITHOUT A FIRE DAMPER AT EACH FLOOR, PROVIDED IT MEETS ALL OF THE FOLLOWING REQUIREMENTS:

- THE DUCT SHALL BE CONTAINED AND LOCATED WITHIN THE CAVITY OF A WALL AND SHALL BE CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH (26 GAGE) IN THICKNESS.
- 2. THE DUCT SHALL OPEN INTO ONLY ONE DWELLING OR SLEEPING UNIT AND THE DUCT SYSTEM SHALL BE CONTINUOUS FROM THE UNIT TO THE EXTERIOR OF THE BUILDING.
- 3. THE DUCT SHALL NOT EXCEED 4—INCH NOMINAL DIAMETER AND THE TOTAL AREA OF SUCH DUCTS SHALL NOT EXCEED 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF FLOOR AREA.
- 4. THE ANNULAR SPACE AROUND THE DUCT IS PROTECTED WITH MATERIALS THAT PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHERE SUBJECTED TO ASTM E 119 TIME—TEMPERATURE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 Pa) OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE—RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.
- 5. GRILLE OPENINGS LOCATED IN A CEILING OF A FIRE—RESISTANCE—RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY SHALL BE PROTECTED WITH A LISTED CEILING RADIATION DAMPER INSTALLED IN ACCORDANCE WITH SECTION 716.6.2.1.

MAXIMUM VENT AREA CALCULATIONS AT MAX: (8) 4¢ PIPES SINGLE PIPE = 12.5 SQ. IN. 8 * 12.5 = 100 SQ. IN. MAX

CODE

VENTS SHALL NOT EXCEED 100 SQ. IN. PER 100 SF OF FLOOR AREA.

NATURAL VENTILATION

UNIT A:
MINIMUM OPENABLE AREA PER IMC 402.2:
1600 SF MAX. X 4% = 64 SF

ENTRANCE DOOR: 30 SF OPERABLE WINDOW: 243 SF TOTAL OF 273 SF OF OPEN AREA

UNIT B: MINIMUM OPENABLE AREA PER IMC 402.2: 1619 SF MAX. X 4% = 64.76 SF

ENTRANCE DOOR: 30 SF
PATIO DOOR: 46.76 SF
OPERABLE WINDOW: 202.98 SF
TOTAL OF 279.74 SF OF OPEN AREA

2019 CALIFORNIA DUCT INSULATION SCHEDULE (1)(2)(3)(5)(6)(7)(8)

SERVICE	MATERIAL	R-VALUE (MIN.INSTALLED)	VAPOR RETARDER REQUIRED
SUPPLY & RETURN AIR DUCTS IN EXTERIOR SPACE	MINERAL-WOOL BLANKET	8.0	YES
SUPPLY & RETURN AIR DUCTS IN UNVENTED ATTIC ABOVE INSULATED CEILING SPACE	MINERAL-WOOL BLANKET	8.0	YES
SUPPLY & RETURN AIR DUCTS IN VENTED ATTIC SPACE	MINERAL-WOOL BLANKET	8.0	YES
SUPPLY & RETURN AIR DUCTS IN UNCONDITIONED AND CRAWL SPACE	MINERAL-WOOL BLANKET	8.0	YES
SUPPLY AIR DUCTS ENCLOSED IN CONDITIONED SPACE	N/A	0.0	N/A
SUPPLY AIR DUCTS BURIED AND OTHER SPACES NOT LISTED ABOVE	MINERAL-WOOL BLANKET	4.2	N/A
ROUND & RECTANGULAR EXHAUST AIR DUCTS IN UNCONDITIONED SPACE	MINERAL-WOOL BLANKET	N/A	N/A
ROUND & RECTANGULAR SUPPLY AIR DUCTS, EXPOSED WITHIN CONDITIONED SPACE	MINERAL-WOOL BLANKET	N/A	N/A
ROUND & RECTANGULAR RETURN AIR DUCTS, EXPOSED WITHIN CONDITIONED SPACE	MINERAL-WOOL BLANKET	N/A	N/A
OUTSIDE AIR DUCTS WITHIN CONDITIONED SPACE, ATTIC SPACE OR CONCEALED IN CEILING	MINERAL-WOOL BLANKET	4.0	YES (9)
OUTSIDE AIR DUCTS WITHIN PARKING, CRAWL SPACE	MINERAL-WOOL BLANKET	N/A	N/A

NOTES:

- (1) DUCT INSULATION SHALL COMPLY WITH CMC AND CEC.
- (2) VAPOR RETARDER SHALL BE INSTALLED ONLY ON SUPPLY AND OUTSIDE AIR DUCTS.
- (3) INSULATION SHALL BE PROTECTED PER 2019 CEC SECTION 120.4
 (4) PER 2019 CMC SECTION 604.1.2 INSULATION SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF
- 25 MAXIMUM SMOKE DEVELOPED INDEX OF 50 HAVE LISTING OF ASTM E84 OR UL 723. (5) DETERIORATION: FIELD APPLIED JACKET SHALL BE PROVIDED ON INSULATION
- EXPOSED TO OUTDOOR ELEMENTS (UV & MOISTURE).

 (6) ACOUSTIC: INSULATION SHALL BE DUCT LINER ON MIXING BOX AND FIRST 5 FEET OF DUCTWORKS
- FROM MECHANICAL UNITS. INSULATION ON ALL OTHER DUCTS SHALL BE DUCT WRAPPING.

 (7) DUCT LINER: PER 2019 CMC SECTION 604.1.1, DUCT LINER SHALL HAVE MOLD, HUMIDITY AND EROSION—RESISTANT SURFACE LISTED PER UL 181. PROVIDE LINER FASTENER AS RECOMMENDED BY MANUFACTURER/NAIMA IN COMPLIANCE WITH CODE.
- FOR HILTON™ PROJECTS, DUCT LINER SHALL BE CLOSED CELL ELASTOMERIC TYPE. (K-FLEX OR EQUIVALENT.)

 (8) ADDITIONAL PROVISIONS: INSULATION MATERIAL & THICKNESS ARE BASED ON CODE MINIMUM

 PROVIDENTAL ONLY ADDITIONAL PROVISIONS CHALL BE PROVIDED BY CONTRACTOR AS DESIGNED.
- (8) ADDITIONAL PROVISIONS: INSULATION MATERIAL & THICKNESS ARE BASED ON CODE MINIMUM REQUIREMENT ONLY. ADDITIONAL PROVISIONS SHALL BE PROVIDED BY CONTRACTOR AS REQUIRED BY LOCAL AUTHORITIES, MANUFACTURER'S INSTRUCTION, OWNER, BRAND STANDARD AND PROJECT SPECIFICATIONS.
- (9) CONDENSATION: INSULATION & VAPOR RETARDER IS REQUIRED BY ENGINEERING

BASED ON BEST PRACTICE.

APPLICABLE CODES

- 2019 CALIFORNIA BUILDING CODE (CBC)
- 2019 CALIFORNIA MECHANICAL CODE (CMC)
- 2019 CALIFORNIA PLUMBING CODE (CPC)
 2019 CALIFORNIA ELECTRICAL CODE (CEC)
- 2019 CALIFORNIA ENERGY CODE (CENC) 2019 CALGREEN BUILDING CODE

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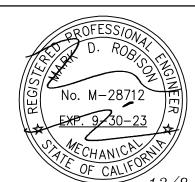
ENGINEERING, INC

19401 40TH AVE W., SUITE 302
LYNNWOOD, WA 98036
206-364-3343 TEL
REI PROJECT NO.: 590-054
CONTACT: ARIK ESPINELI



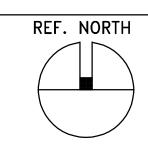
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PROJECT NOTES

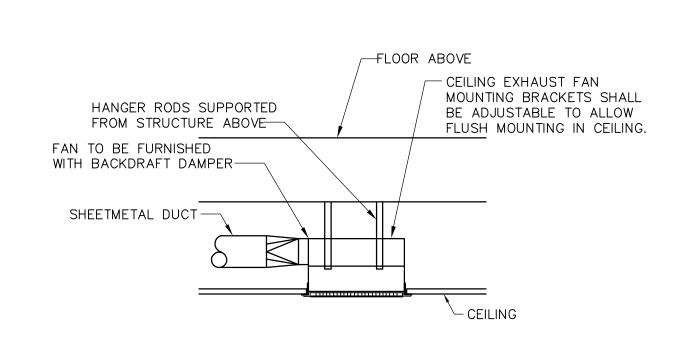


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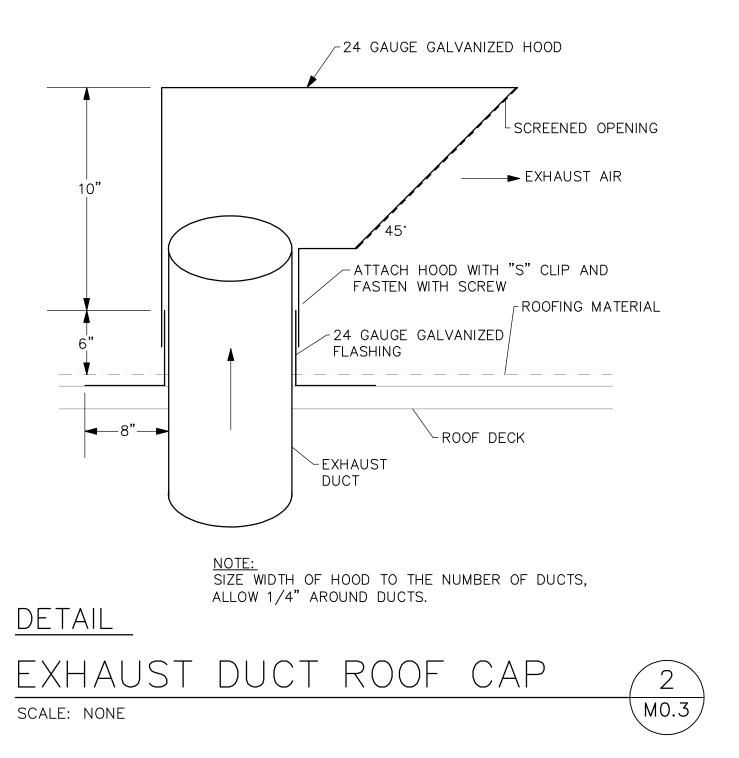
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DETAILS



<u>CEILING EXHAUST FAN</u>

DETAIL M0.3 SCALE: NONE



MECHANICAL SCHEDULES

	SF	PLIT HEAT	PUMP S	SCHED	ULE —	IND	DOR	UNIT		
		NACHINITING /	FAI	١	ELEC	TRICAL	_	WEIGHT		CONNECTED
EQUIP NO.	SERVICE	MOUNTING/ DISCHARGE	AIRFLOW, CFM	W	VOLTAGE	MCA	моср	WEIGHT, LBS	BASIS OF DESIGN (1)	CONNECTED OUTDOOR UNIT
FC-1	2-TON SYSTEM	HORIZONTAL	798	230	(2)	(2)	(2)	82	DAIKIN FDMQ24RVJU	HP-1
IOTES:	(1) REFRIGERANT SHALL BE R-410A.	I				<u> </u>	<u> </u>			

		SPLIT HEAT	T PUN	MP SCHEDUL	E —	OUTDOC	R UI	11T			
FOLUD NO	CEDVICE	TOTAL COOLING	CEED	TOTAL HEATING	HSPF	ELEC	CTRICAL		WEIGHT,	BASIS OF DESIGN	CONNECTED INDOOR
EQUIP NO.	SERVICE	CAPACITY, BTUH	SEER	CAPACITY, BTUH	HSPF	VOLTAGE	МСА	MOCP	LBS	(1)(2)(3)	UNIT
HP-1	BLDG 1 UNITS	21,800	18.6	24,000	10	230V/1P	16.9	20	108	DAIKIN RX24RMVJUA	FC-1

ARI LISTED WITH ALL STANDARD FEATURES, INSTALLATION ACCESSORIES AND COMPRESSOR SHORT CYCLING PROTECTION. FILTER DRIER, REFRIGERANT LINE FILTER, LIQUID SOLENOID VALVE, AND SAFETY PRESSURE SWITCHES. INSTALL REFRIGERANT TUBING IN STRICT ACCORDANCE WITH MANUFACTURER'S NOTES: RECOMMENDATIONS.

REFRIGERANT SHALL BE R-410A.

(2) POWERED BY OUTDOOR UNIT

			FA	N SCHE	DULE				
EQUIP NO.	SERVICE	MOUNTING	AIRFLOW, CFM	ESP. IN WG	ELECTRI VOLTAGE	CAL HP	OPERATION	WEIGHT, LBS	BASIS OF DESIGN (1)(2)
BEF-1	UNIT BATHROOM	CEILING MOUNTED	100	0.3	115V/1P	FHP	(4)	10	GREENHECK SP-AP0511W (3)

(1) PROVIDE BACKDRAFT DAMPERS ON EXHAUST FANS. (2) VIBRATION ISOLATION: FANS < 125 LBS RUBBER ISOLATORS, FANS > 125 LBS SPRING ISOLATORS

(3) ENERGY STAR CERTIFIED

NOTES:

(4) FAN CAN BE ACTIVATED BY BOTH HUMIDITY SENSOR AND WALL SWITCH.



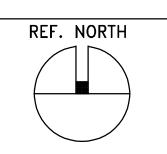


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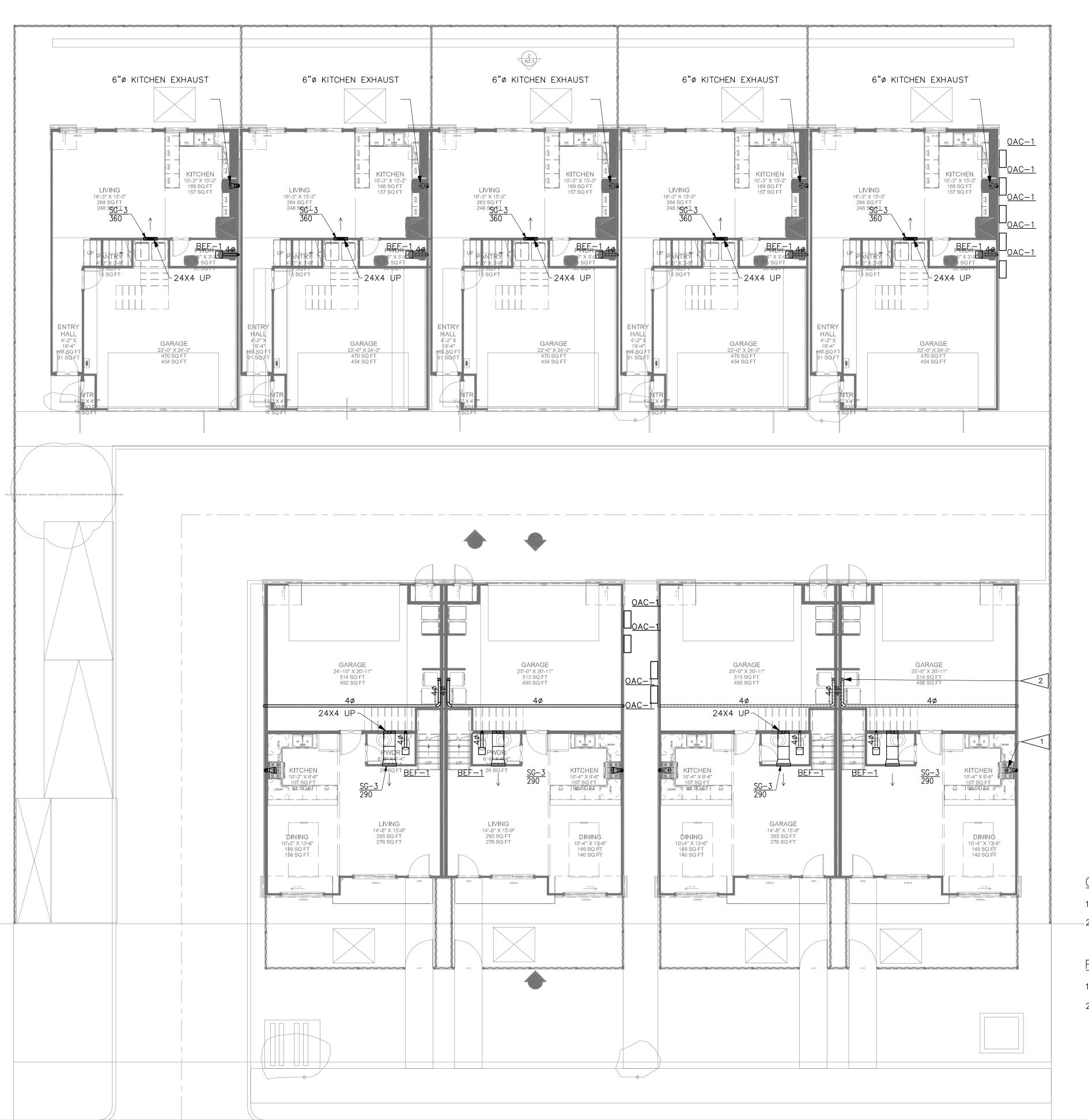
DATE: DECEMBER 8. 2022 PROJECT No. 590-054

MECHANICAL SCHEDULES



M0.3

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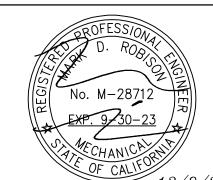




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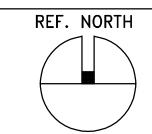
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DATE: DECEMBER 8. 2022

PROJECT No. 590-054

HVAC PLAN - FIRST FLOOR



M2.0

GENERAL NOTES

- 1. MOUNT REMOTE THERMOSTAT AT 48" AFF.
- -2. CONDENSATE DRAIN TO TERMINATE AT APPROVED RECEPTOR WITH INDIRECT CONNECTION. REFER TO PLUMBING PLANS FOR CONDENSATE PIPE ROUTING AND ADDITIONAL INFORMATION.

FLAG NOTES #

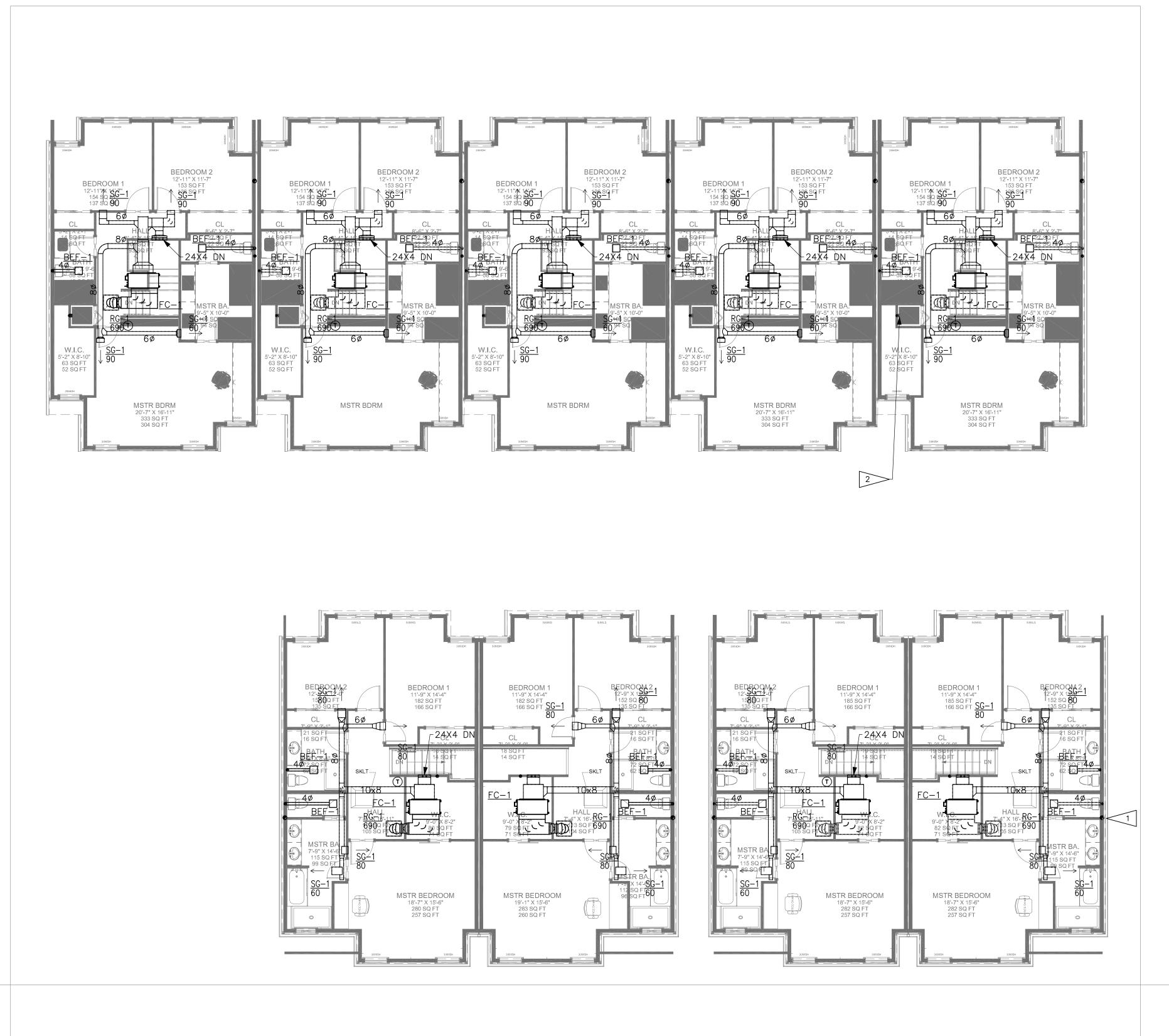
- 1. POC TO RANGE HOOD (TYP).
- 2. POC TO DRYER (TYP).

HVAC PLAN

FIRST FLOOR

SCALE: 1/8" = 1'-0"

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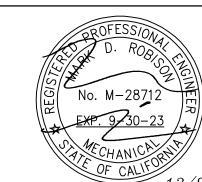
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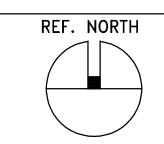
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DATE:
PROJECT No.

DECEMBER 8. 2022 590-054

HVAC PLAN - SECOND FLOOR



M2.1

GENERAL NOTES

1. MOUNT REMOTE THERMOSTAT AT 48" AFF.

2. CONDENSATE DRAIN TO TERMINATE AT APPROVED RECEPTOR WITH INDIRECT CONNECTION. REFER TO PLUMBING PLANS FOR CONDENSATE PIPE ROUTING AND ADDITIONAL INFORMATION.

FLAG NOTES #

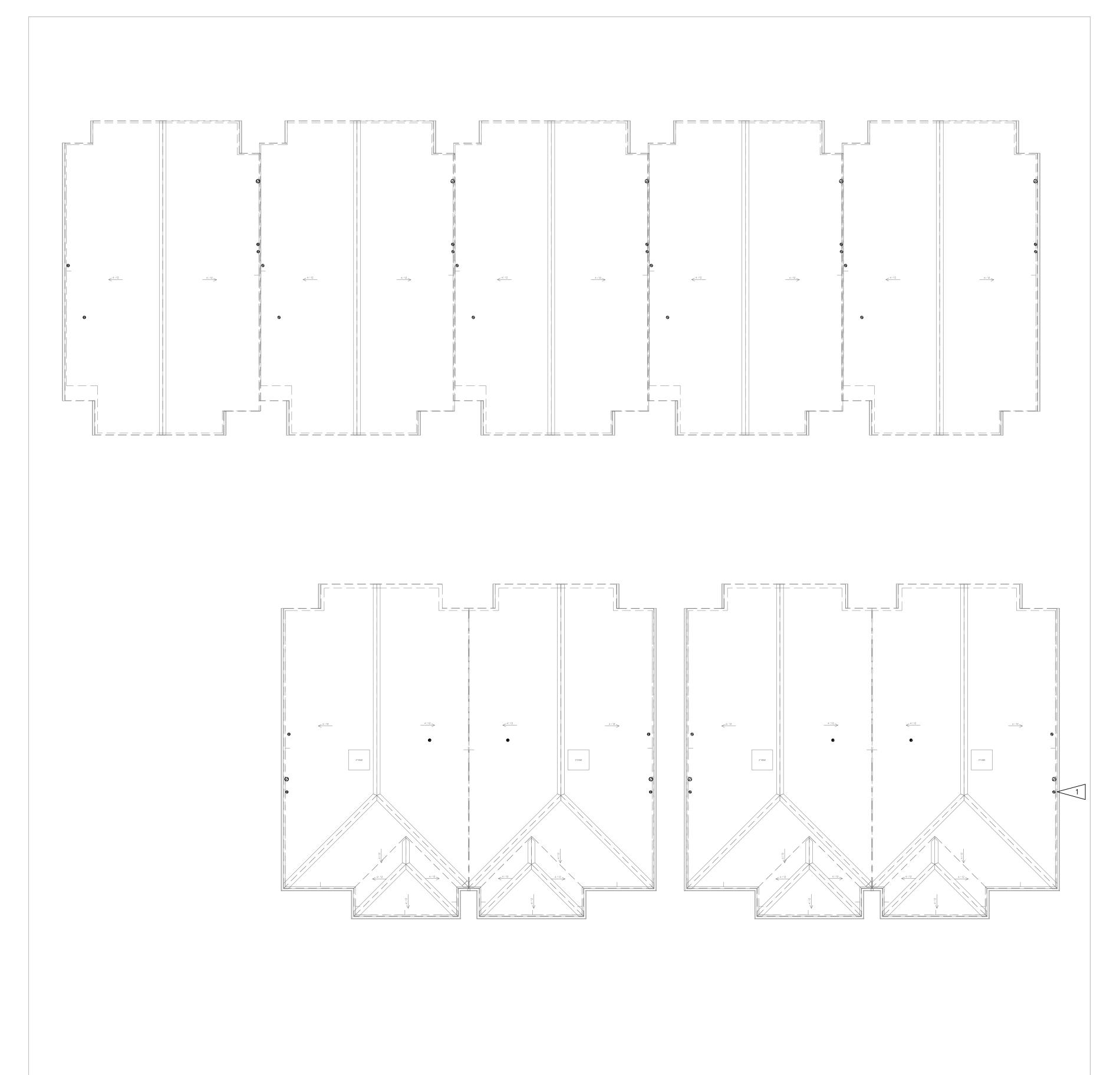
1. 4" EXHAUST DUCT UP THROUGH ROOF

2. POC TO DRYER (TYP).

<u>HVAC PLAN</u>

 $\frac{\text{SECOND FLOOR}}{\text{SCALE: 1/8"} = 1'-0"}$

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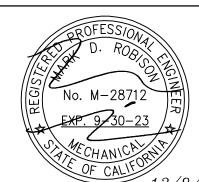


South Santa Cruz Ave., #33192 Los Gatos, CA 95030

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GREENEY ST.

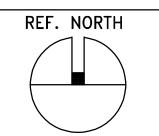
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DATE: DECEMBER 8. 2022
PROJECT No. 590-054

HVAC PLAN - ROOF



M2.2

FLAG NOTES #

 4ø BATHROOM EXHAUST VENT TERMINATION. PROVIDE VENT CAP SEE DETAIL MO.3/2 (TYP).

HVAC PLAN

ROOF

SCALE: 1/8" = 1'-0"

DATE:

PROJECT No.

REF. NORTH

GENERAL CONTRACTOR & ENGINEER 101 South Santa Cruz Ave., #33192 Los Gatos, CA 95030 TOWNHOUSES

ROBISON ENGINEERING, INC

19401 40TH AVE W., SUITE 302 LYNNWOOD, WA 98036 206-364-3343 TEL REI PROJECT NO.: 590-054 CONTACT: ARIK ESPINELI

NEY ST CHEENE SANTA **REVISION** DATE

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TITLE 24 COMPLIANCE

FORMS

DECEMBER 8. 2022

590-054

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ENEY ST CHEENE SANTA **REVISION** DATE: DECEMBER 8. 2022 PROJECT No. 590-054 **TITLE 24 COMPLIANCE**

FORMS REF. NORTH

ROBISON ENGINEERING, INC

19401 40TH AVE W., SUITE 302 LYNNWOOD, WA 98036 206-364-3343 TEL REI PROJECT NO.: 590-054 CONTACT: ARIK ESPINELI

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DATE

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CERTIFICATE OF COMPLIANCE	ANCE					CF1R-PRF-01E
e: CHEENY S	Project Name: CHEENY ST TOWNHOMES		Calculation	Calculation Date/Time: 2022-12-08T15:08:23-08:00	15:08:23-08:00	(Page 15 of 16)
Description:	Calculation Description: Title 24 Analysis		Input File N	Input File Name: Cheeny Townhomes.ribd19x	.ribd19x	
IAQ (INDOOR AIR QUALITY) FANS) FANS					
1	02	60	90	50	90	-00
				IAQ Recovery	IAQ Recovery	

	20	HERS Verification	Yes							
	90	IAQ Recovery Effectiveness - ASRE	e/u	n/a						
	90	IAQ Recovery Effectiveness - SRE	n/a	n/a	e/u	n/a	n/a	e/u	n/a	n/a
	8	IAQ Fan Type	Exhaust							
	03	IAQ Watts/CFM	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
FANS	02	IAQ CFM	78	78	78	78	78	78	78	78
IAQ (INDOOR AIR QUALITY) FANS	10	Dwelling Unit	2/2 T-DDD	DDU-2 1/2	2/2 2-000	DDU-3 1/5	DDU-3 2/5	s/e e-naa	DDU-3 4/5	s/s e-naa

		04	Name	HVAC Fan 1-hers-fan	HVAC Fan 2-hers-fan	Latter Free 3 hours free
		03	Fan Power (Watts/CFM)	0.58	0.58	0.0
		02	Type	HVAC Fan	HVAC Fan	THE PARTY OF THE P
	HVAC - FAN SYSTEMS	10	Name	HVAC Fan 1	HVAC Fan 2	C == 2 5000

HVAC	HVAC Fan I-hers-tan		Required		0.58	
HVAC	HVAC Fan 2-hers-fan		Required		0.58	
HVAC	HVAC Fan 3-hers-fan		Required		0.58	
IAQ (INDOOR AIR QUALITY) FANS) FANS					
10	02	03	90	90	90	00
Dwelling Unit	IAQ CFM	IAQ Watts/CFM	IAQ Fan Type	IAQ Recovery Effectiveness - SRE	IAQ Recovery Effectiveness - ASRE	HERS Verificati
001117	78	0.35	to to the	e) u	e/u	Voc

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ROBISON ENGINEERING, INC

19401 40TH AVE W., SUITE 302 LYNNWOOD, WA 98036 206-364-3343 TEL REI PROJECT NO.: 590-054 CONTACT: ARIK ESPINELI

GENERAL CONTRACTOR & ENGINEER 101 South Santa Cruz Ave., #33192 Los Gatos, CA 95030 ST TOWNHOUSES
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DECEMBER 8. 2022 590-054

TITLE 24 COMPLIANCE **FORMS**

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GENERAL NOTES

GENERAL NOTES

- REFERENCE TO RELATED WORK: "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL, LANDSCAPE, OR KITCHEN), OR ITEM BASED ON A SPECIFIC MANUFACTURER'S DIMENSIONS (VERIFY).
- 2. ELECTRICAL CHARACTERISTICS: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS (VOLTAGES, ETC. OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.
- 3. CODES: COMPLETE INSTALLATION OF THE PLUMBING SYSTEM SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL
- 4. PREPARE AND SUBMIT FOR REVIEW A SHOP DRAWING BASED ON FINAL STRUCTURAL SHOP DRAWINGS FOR LOCATING AND ROUTING ALL EQUIPMENT, PIPING, ETC.
- A. COORDINATE FLOOR AND BEAM PENETRATIONS WITH STRUCTURAL B. COORDINATE FINAL LOCATION AND ROUTING WITH CEILING, LIGHTS
- WALLS, FIRE SPRINKLER PIPING, AND OTHER TRADES WORK. C. INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING, EQUIVALENT DUCT SIZING EXCHANGE, RELOCATING, ETC. AS REQUIRED FOR A
- COMPLETE OPERATING MECHANICAL SYSTEM. D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.
- 5. PLUMBING CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF ALL PLUMBING EQUIPMENT WITHIN THE STRUCTURE.
- ACCESS DOORS: COORDINATE WITH ARCHITECT AND LOCATE ALL ACCESS DOORS ON SHOP DRAWINGS PRIOR TO BEGINNING OF CONSTRUCTION. ACCESS DOORS IN FIRE RATED STRUCTURE SHALL BE FIRE RATED. VERIFY ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO BIDDING.
- 7. ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR ROOF CAP, ROOF CURB, ROOF DRAIN, AND VTR DETAILS.
- 8. EXPOSED PIPING: PROVIDE CHROME PLATING FOR EXPOSED PIPING IN FINISHED ROOMS.
- 9. PENETRATIONS: PROVIDE ESCUTCHEON PLATES FOR EXPOSED PIPING PENETRATIONS AND SHEET METAL FLASHING FOR EXPOSED DUCTWORK PENETRATIONS.
- 10. SHAFT AND PLENUM CONNECTIONS: SEAL CONNECTIONS TO AIR SHAFTS AIRTIGHT. PROVIDE AIRTIGHT SEAL AROUND PENETRATIONS IN AIR PLENUMS.
- 11. LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.
- 12. CABLE TRAYS: PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" ABOVE AND TO THE SIDE OF CABLE TRAYS.
- 13. MOTORS: COMPLY WITH ENERGY CODE ENFORCED BY AHJ FOR MINIMUM EFFICIENCIES UNDER FULL LOAD.
- 14. ACCESS CLEARANCES FOR MAINTENANCE AND REPLACEMENT: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE LOCATIONS OF MECHANICAL WORK AND WORK OF OTHER TRADES TO PROVIDE ACCESS CLEARANCES FOR SERVICE AND MAINTENANCE.

COORDINATION REQUIREMENTS

- 1. IRRIGATION: COORDINATE WITH IRRIGATION CONTRACTOR FOR THEIR WATER SUPPLY REQUIREMENTS AND LOCATIONS.
- 2. GAS: CONTRACTOR/GAS COMPANY SHALL FINALIZE GAS METER AND GAS SERVICE LOCATIONS.
- 3. UTILITIES: COORDINATE WITH SITE UTILITY CONTRACTOR AND CIVIL DRAWINGS FOR UTILITY CONNECTIONS AND EXTENSIONS.
- 4. ROOF DRAINAGE: COORDINATE WITH GENERAL CONTRACTOR FOR ROOF DRAIN AND OVERFLOWS, SCUPPER DRAINS, AND CONDENSATE DRAINS.
- 5. PLUMBING FIXTURES: COORDINATE WITH ARCHITECTURAL AND OTHER TRADES EXACT LOCATION OF ALL PLUMBING FIXTURES.
- 6. PIPING: COORDINATE WITH STRUCTURAL FOR EXACT LOCATION OF ALL STRUCTURAL FRAMING AND FOOTINGS AND FINALIZE THE EXACT ROUTING OF ALL PIPES WITH STRUCTURAL AND AT THE SITE PRIOR AND DURING THE CONSTRUCTION.
- 7. ADJUSTMENTS: ALL EQUIPMENT, MOTORS, FANS GAS BURNERS, IGNITION DEVICES, DRIVES, ETC. SHALL BE ADJUSTED AND BALANCED TO OPERATE AT SPECIFIED RATINGS AS REQUIRED FOR THIS PROJECT SITE AND ACCOUNTING FOR ELEVATION ABOVE SEA LEVEL.
- 8. APPROVALS: MECHANICAL AND PLUMBING EQUIPMENT SHALL BE APPROVED FOR INSTALLATION IN THE PROJECT LOCATION AND SHALL HAVE ALL CERTIFICATIONS AND RATINGS TO MEET ALL ENERGY, POLLUTION, ENVIRONMENTAL, SEISMIC, ETC. CODES AND REGULATIONS. THE CONTRACTOR SHALL COORDINATE WITH HIS MANUFACTURE SUPPLIERS AND SHALL INCLUDE ALL COSTS REQUIRED TO MEET THESE REQUIREMENTS IN HIS BID.
- 9. FIRE PROTECTION: CONTRACTOR SHALL PROVIDE A FULLY DESIGNED FIRE PROTECTION SPRINKLER SYSTEM IN COMPLIANCE WITH NFPA AND

LOCAL CODES. PROVIDE DESIGN, PERMITS, MATERIALS, INSTALLATION, TESTING AND ALL OTHER FOR A FULLY OPERATIONAL SYSTEM. LOCATION OF ALL PIPING TO BE COORDINATED WITH OTHER TRADES.

PLUMBING NOTES

- CONNECTIONS: PROVIDE PLUMBING FIXTURE CONNECTIONS TO BUILDING WASTE, VENT, COLD WATER, AND HOT WATER SYSTEM IN ACCORDANCE WITH DRAWINGS. MANUFACTURER'S RECOMMENDATIONS. AND LOCAL CODES. CONNECT TO EACH FIXTURE, EQUIPMENT, ETC. WITH ALL ACCESSORIES, VALVES, VACUUM BREAKERS, REGULATORS, UNIONS, ETC AS REQUIRED AND AS RECOMMENDED BY THE MANUFACTURERS. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE ON PLANS.
- HOT AND COLD: WATER PIPING CONNECTION TO EACH FIXTURE SHALL BE COLD WATER ON THE RIGHT HAND SIDE AND HOT WATER ON THE LEFT HAND SIDE.
- 3. HOT WATER: NON-CIRCULATING HOT WATER PIPE SHALL NOT EXCEED 10' UNLESS OTHERWISE SHOWN ON DRAWINGS.
- 4. VENT STACKS: COORDINATE VENT STACK WITH HVAC EQUIPMENT TO MAINTAIN MINIMUM 10' CLEARANCE FROM OUTSIDE AIR INTAKES.
- CLEANOUTS: PROVIDE CLEANOUTS PER CURRENT CPC AND AS REQUIRED BY LOCAL JURISDICTIONS. CLEANOUTS SHALL BE LOCATED IN WALLS/FLOORS WHERE THEY ARE NOT HIGHLY VISIBLE. FLOOR CLEANOUTS IN CARPETED AREAS TO BE FITTED WITH CARPET INSERTS. LOCATIONS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. NOTE: NOT ALL CLEANOUTS ARE SHOWN ON THE PLUMBING DRAWINGS. CLEANOUTS SHALL BE INSTALLED PER 2019 CPC SEC. 707.0 AND
- SUDS RELIEF: PROVIDE SUDS RELIEF IN ACCORDANCE WITH CURRENT CPC.
- 7. SHUT-OFFS: PROVIDE 1/4 TURN BALL VALVE ANGLE STOP SHUT-OFF VALVES AND BRAIDED STAINLESS STEEL FLEX CONNECTORS AT HOT AND COLD WATER SUPPLY TO EACH FIXTURE. EXCEPTION: PROVIDE SCREWDRIVER STOPS AT BATH/SHOWERS
- 8. TUB SPOUTS SHALL BE THREADED (NO PUSH-ON FITTINGS).
- 9. TRAP ARMS: PROVIDE TRAP ARMS SUCH THAT THE MAXIMUM LENGTH WILL NOT EXCEED CODE REQUIREMENTS.
- 10. ADA INSULATION: AT PLUMBING PIPING EXPOSED UNDER LAVATORIES, INSULATE THE EXPOSED PIPING AND TRAPS WITH PRODUCT SPECIFICALLY DESIGNED FOR THIS APPLICATION MEETING ADA REQUIREMENTS. PROVIDE HANDI-LAV GUARD OR EQUIVALENT. OFFSET P-TRAPS TO CLEAR WHEELCHAIR ACCESS.
- 11. GAS EQUIPMENT: GAS EQUIPMENT SHALL BE INSTALLED PER EQUIPMENT LISTINGS, LOCAL CODES, AND NFPA.
- 12. GAS CONNECTIONS: INSTALL FLEXIBLE QUICK DISCONNECT ASSEMBLIES FOR ALL GAS FIRED KITCHEN EQUIPMENT PER LOCAL JURISDICTIONS.
- 13. WATER HAMMER ARRESTORS: PROVIDE AT THE END OF HOT AND COLD WATER LINES SERVING TWO OR MORE FIXTURES; SIZE IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE (PDI) REQUIREMENTS. WATER HAMMER ARRESTORS ARE REQUIRED FOR QUICK CLOSING VALVES, SUCH AS LAUNDRY WASHERS, FLUSH VALVES (PUBLIC TOILETS), ETC.
- 14. TRAP PRIMERS: PROVIDE TRAP PRIMERS AND PIPING FOR DRAINS AND FLOOR SINKS. ARRANGE PIPING TO ACHIEVE EQUAL FLOW TO EACH DRAIN AND FLOOR SINK FOR TRAP PRIMERS SERVING MULTIPLE DRAINS AND FLOOR SINKS.
- 15. P-TRAPS: ALL EXPOSED P-TRAPS SHALL BE CHROME-PLATED BRASS.
- 16. PROVIDE BALL VALVES. GATE VALVES SHALL NOT BE USED. NO EXCEPTIONS.
- 17. HOT WATER RECIRCULATING BALANCING VALVES TO BE BELL & GOSSETT CIRCUIT SETTER (OR WATTS EQUIVALENT) WITH INTEGRAL READOUT PORTS, ADJUSTMENT KNOB, DRAIN CONNECTION, AND POSITIVE SHUTOFF.
- 18. DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE.
- 19. REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION SIZES.
- 20. OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT
- 21. DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE.
- 22. VALVE TAGS: PROVIDE VALVE TAGS TO IDENTIFY EACH VALVE AND THE AREA IT SERVES.
- 23. ROOF DRAINS, OVERFLOW DRAINS, AND OTHER RAINWATER PIPING WITHIN THE INTERIOR OF THE BUILDING SHALL BE TESTED IN ACCORDANCE WITH THE 2019 CPC PROVISIONS. STORM DRAIN PIPING WITHIN THE BUILDING SHALL UTILIZE APPROVED DRAINAGE FITTINGS.

INSULATION/LINING NOTES

1. ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ.

DRAWINGS ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

ABBREVIATIONS

<u>PIPING</u>

SANITARY SEWER (SS)

OVERFLOW RAIN LEADER

HOT WATER, POTABLE, 120°F

HOT WATER, POTABLE, TEMPERATURE

HOT WATER CIRCULATING, POTABLE,

TEMPERATURE OTHER THAN 120°F

LOW PRESSURE NATURAL GAS

MEDIUM PRESSURE NATURAL GAS

HOT WATER CIRCULATING (HWC), POTABLE,

CONDENSATE DRAIN

COLD WATER (CW)

OTHER THAN 120°F

120°F

FUEL OIL FILL

FUEL OIL SUPPLY

FUEL OIL RETURN

FUEL OIL VENT

RELIEF VENT

PUMPED WASTE

VENT (V)

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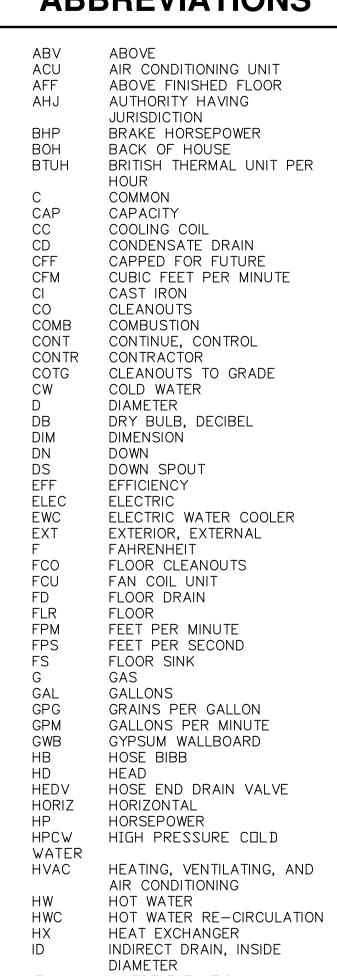
——— FOF ———

— FOV — —

— — RV— —

——— MPG ———

RAIN LEADER



INVERT ELEVATION INCH KS KITCHEN SINK KW KILOWATT LONG. LENGTH LAVATORY POUND THOUSAND BTU PER HOUR MECHANICAL MIN. CIRCUIT AMPACITY

MOCP MAX. OVER CURRENT PROTECTION MEDIUM PRESSURE GAS MOUNTED OD OUTSIDE DIMENSION/DIAMETER OVERFLOW DRAIN/DECK OPNG OPENING PUMP PDPRESSURE DROP, PUMPED POINT OF CONNECTION

PRV PRESSURE REDUCING VALVE PRESSURE RELIEF VALVE PUMPED STORM DRAINAGE PUMPED SANITARY SEWER POUNDS PER SQUARE INCH PSIG **GAUGE** ROOF DRAIN REF REFERENCE

RPBP REDUCED PRESSURE BACKFLOW PREVENTER REVOLUTIONS PER MINUTE SCHEDULE SCW SOFTENED COLD WATER

SD STORM DRAIN SF SQUARE FOOT SH SHOWER SO SP STORM OVERFLOW STATIC PRESSURE SR SUDS RELIEF SS STAINLESS STEEL, SANITARY SEWER

VTR

WC

WCO

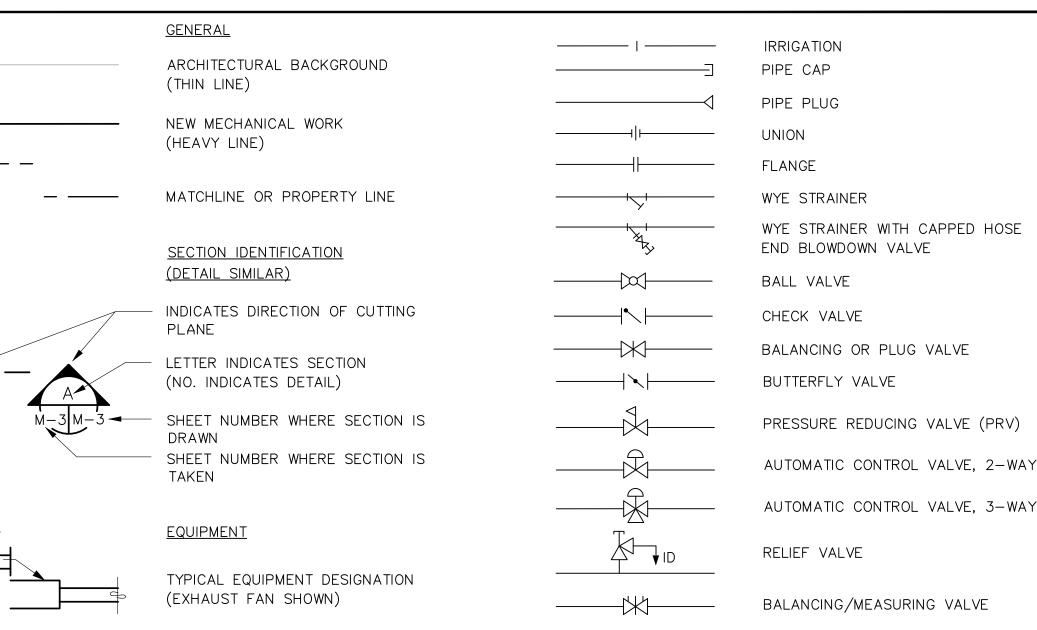
WH

SQ SQUARE TR TEMPERATURE RISER TYP TYPICAL UH UNIT HEATER UNLESS OTHERWISE NOTED UON

VENT THRU ROOF

WASTE, WATT, WIDE WATER CLOSET WALL CLEANOUTS WALL HYDRANT, WATER HEATER WASHING MACHINE

SYMBOLS



HOSE BIBB BREAK IN PIPING OR DUCTWORK

PRESSURE GAUGE

THERMOMETER PRESSURE / TEMPERATURE TEST PORT

REDUCED PRESSURE BACKFLOW PREVENTER DOUBLE CHECK VALVE ASSEMBLY

FLEXIBLE CONNECTION IN PIPING

VALVE STATION OR ASSEMBLY

INDIRECT DRAIN, PIPE TO DRAIN

PIPE ANCHOR

PIPE SUPPORT

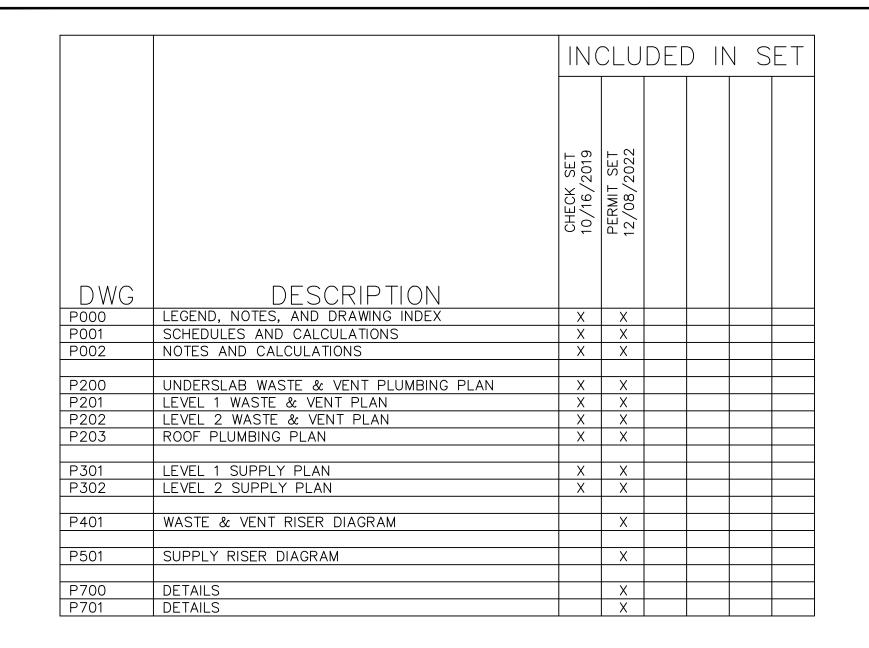
FLOOR DRAIN

PIPE ALIGNMENT GUIDE

INDEX OF DRAWINGS

RPBP

DCVA





LYNNWOOD, WA 98036

206-364-3343 TEL

REI PROJECT NO.: 590-054

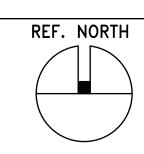
CONTACT: ARIK ESPINELI

CONSTRUCTION INC. GENERAL CONTRACTOR & ENGINEER 101 South Santa Cruz Ave., #33192 Los Gatos, CA 95030

> 6 **W**

REVISION DATE DATE: December 8, 2022

> LEGEND, NOTES, AND **DRAWING INDEX**



PROJECT No.

P000

590-054

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CONTRACTOR SUBSTITUTIONS & REVISIONS

CONTRACTOR SUBSTITUTIONS & REVISIONS: PLEASE SUBMIT PROPOSALS FOR SUBSTITUTIONS OR REVISIONS FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL OR DOING WORK. FOR EQUIPMENT THAT IS SCHEDULED BY MANUFACTURER'S NAME AND CATALOG DESIGNATIONS, THE MANUFACTURER'S PUBLISHED DATA AND/OR SPECIFICATION FOR THAT ITEM ARE CONSIDERED PART OF SPECIFICATION. ENGINEERING COSTS FOR REVISING MEP PLANS SHALL BE ADDRESSED IN THE COST ANALYSIS OF THE SUBSTITUTION PROPOSAL. CONTRACTOR TO COORDINATE WITH ENGINEER AND DETERMINE ASSOCIATED DESIGN AND PERMITTING COSTS. CONTRACTOR SHALL BE RESPONSIBLE FOR OTHER COSTS ASSOCIATED WITH UNFORESEEN ISSUES RESULTING FROM SUBSTITUTIONS OR REVISIONS.

APPLICABLE CODES

THESE DRAWINGS ARE BASED ON THE FOLLOWING CODES:

2019 CALIFORNIA BUILDING CODE (CBC)
2019 CALIFORNIA MECHANICAL CODE (CMC)
2019 CALIFORNIA PLUMBING CODE (CPC)
2019 CALIFORNIA ENERGY CODE (CEC)

PRE-CON MEETING NOTES

CONTRACTORS SHALL ATTEND A PRE—CONSTRUCTION MEETING WITH THE ENGINEER FOR THE PURPOSE OF REVIEWING THE WORK PRIOR TO ORDERING ANY EQUIPMENT OR PERFORMING ANY WORK. THE MEETING SHALL BE LOCATED AT THE PROJECT SITE ON A DATE AND TIME TO BE MUTUALLY AGREED. THE MEETING WILL BE A WORKING SESSION. THE MEETING WILL BE FACILITATED BY THE ENGINEER AND THE AGENDA WILL INCLUDE A DETAILED REVIEW OF THE PLANS AND SPECIFICATIONS, CROSS CHECK WITH OTHER TRADES FOR COORDINATION ISSUES, REVIEW OF PROPOSED PRODUCTS, REVIEW OF PLANNED MEANS AND METHODS, AND ON—SITE INVESTIGATION OF FIELD CONDITIONS RELATIVE TO EXISTING CONDITIONS THAT COULD AFFECT THE WORK. PERSONS ATTENDING THE MEETING SHALL BE KNOWLEDGEABLE OF THE PROJECT AND SHALL BE THE SPECIFIC PERSONS INTENDED TO CONTINUE WITH THE PROJECT THROUGH TO COMPLETION. IF REQUIRED, REVISED PLANS WILL BE ISSUED THROUGH OFFICIAL CHANNELS. CHANGES IN THE BID PRICE WILL BE DISCUSSED, BUT NO CHANGE ORDERS WILL BE ISSUED UNLESS PROCESSED THOUGH OFFICIAL CHANNELS. IT SHALL BE UNDERSTOOD THAT THE ENGINEER HAS NO AUTHORITY TO ISSUE CHANGE ORDERS.

THE FOLLOWING TRADES SHALL BE REPRESENTED FOR THE MINIMUM TIME INDICATED:

MECHANICAL SHEET METAL 4 HOURS
PLUMBING/PIPING 4 HOURS
ELECTRICAL 4 HOURS
SPRINKLER 2 HOURS
GENERAL CONTRACTOR ALL SESSIONS

ADDITIONAL PLUMBING NOTES

- 1. LAVATORY FAUCETS IN PUBLIC RESTROOMS SHALL BE THE SELF-CLOSING OR SELF-CLOSING METERING TYPES.
- 2. NON-REMOVABLE VACUUM BREAKERS SHALL BE PROVIDED AT ALL HOSE BIBBS.
- 3. FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.
- 4. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARDS PER ENERGY EFFICIENCY STANDARDS SEC. 120.3.
- 5. ALL PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF ENERGY EFFICIENCY STANDARDS SEC. 120.3.
 6. SERVICE WATER HEATING SYSTEMS AND EQUIPMENT SHALL COMPLY WITH ENERGY EFFICIENCY STANDARDS SEC. 110.3.
- 7. SWIMMING POOL AND SPA HEATING SYSTEMS AND EQUIPMENT SHALL COMPLY WITH ENERGY EFFICIENCY STANDARDS SEC.
- 8. BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH CPC 2019 SEC. 701.0 AND 903.0.
- 9. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
 10. CHEMICAL WASTE PIPING SHALL COMPLY WITH CPC 2019 SEC. 811.0.
- 11. ALL STORAGE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH AN APPROVED, LISTED EXPANSION TANK OR OTHER DEVICE DESIGNED FOR INTERMITTENT OPERATION FOR THERMAL EXPANSION CONTROL PER CPC 2019 SEC. 608.3.
- 12. WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENTS DUE TO SEISMIC MOTION PER CPC 2019 SEC. 507.2.
- CPC 2019 SEC. 507.2.

 13. MATERIALS EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH CMC 2019 SEC. 601.1.3.
- 14. HVAC EQUIPMENT AND WATER HEATERS SHALL COMPLY WITH CMC 2019 CHAPTER 3.
- 15. MEDIUM PRESSURE GAS PIPING SHALL BE LABELED EVERY FIVE FEET.

 16. BOILERS SHALL COMPLY WITH ALL THE REQUIREMENTS OF CHAPTER 10 OF CMC 2019.
- 17. PROVIDE EXPANSION TANK FOR BOILERS PER SECTION 1005.0 CMC 2019.
 18. ROUTING AND TERMINATION OF FLUE FOR BOILERS SHALL COMPLY WITH CH.8, CMC 2019 AND WITH MANUFACTURERS
- SPECIFICATIONS.

 19. COMBUSTION AIR INTAKE FOR BOILERS SHALL—COMPLY WITH CH. 7, CMC 2019 AND WITH MANUFACTURERS SPECIFICATIONS.

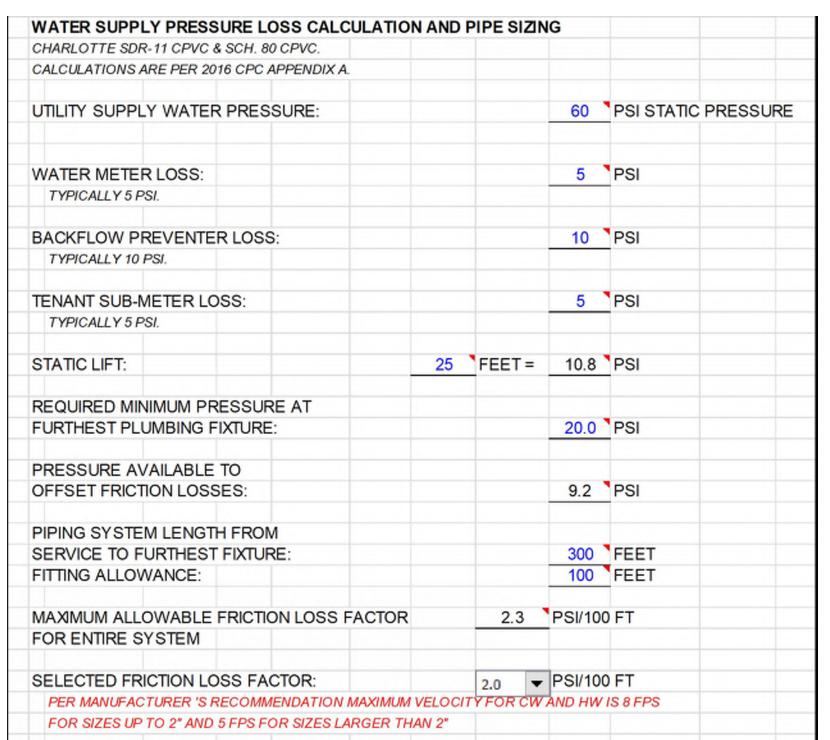
 20. SHOWERS AND TUB/SHOWER COMBINATIONS SHALL BE PROVIDED WITH PRESSURE BALANCE OR THERMOSTATIC MIXING VALVES
- PER 2019 CPC SEC. 408.3.
 21. PLUMBING FIXTURES AND FITTINGS SHALL COMPLY WITH ALL THE REQUIREMENTS LISTED IN TABLES 5.303.2.2 OR 5.303.2.3
 AND IN TABLE 5.303.6 IN THE CALIFORNIA GREEN BUILDING STANDARDS CODE.
- 22. CONTRACTOR SHALL PROVIDE FIRESTOPPING AT PENETRATIONS AS NECESSARY TO RETAIN THE FIRE RATING OF ALL
- ASSEMBLIES. ALL WORK SHALL BE IN COMPLIANCE WITH CODE REQUIREMENTS FOR THE BUILDING CONSTRUCTION TYPE.

 23. FLUSHING PROCEDURES AS OUTLINED IN CPC 604.1.2 SHALL BE OBSERVED ALL ALL PEX PIPING.
- 24. NEW POTABLE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO USE PER 2019 CPC SEC. 609.9.

BACKFLOW PREVENTION REQUIREMENTS:

PLUMBING CONTRACTOR SHALL PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS OR OTHER APPROVED BACKFLOW PREVENTION DEVICE WHERE REQUIRED BY HEALTH AUTHORITIES, FOOD SERVICE DRAWINGS, APPLIANCE MANUFACTURER INSTRUCTIONS AND BY CODE.

WATER PRESSURE CALCULATIONS

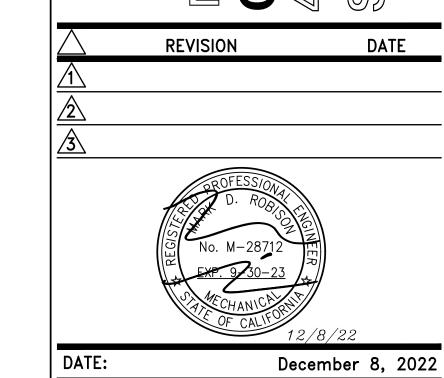


		CP	VC SUPPL	LY PIPE	SIZING	SCHEDUL	Ē		
FL	USH TAN	K CW		Н	TAW TO	(ER	FL	USH VALV	E CW
PIPE SIZE	FLOW, GPM	VEL. FPS	FIXTURE UNITS	FLOW, GPM	VEL. FPS	FIXTURE UNITS	FLOW, GPM	VEL. FPS	FIXTURE UNITS
1/2"	1.2	2.1	0.2	1.2	2.1	0.2	1.2	2.1	
3/4"	3.3	2.6	3.3	3.3	2.6	3.3	3.3	2.6	
1"	6.4	3.1	7.4	6.4	3.1	7.4	6.4	3.1	
1-1/4"	10.9	3.5	14.8	10.9	3.5	14.8	10.9	3.5	
1-1/2"	16.9	3.9	23.9	16.9	3.9	23.9	16.9	3.9	
2"	34.2	4.6	63.6	34.2	4.6	63.6	34.2	4.6	18.4
2-1/2"	64.1	5.0	195.7	64.1	5.0	195.7	64.1	5.0	88.5
3"	100.4	5.0	382.1	100.4	5.0	382.1	100.4	5.0	247.0
4"	175.4	5.0	780.8	175.4	5.0	780.8	175.4	5.0	742.2
6"	399.1	5.0	2661.2	399.1	5.0	2661.2	399.1	5.0	2661.2

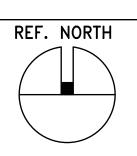




NEW DEVELOPMENT: CHEENEY ST TOWNHOUSE 4249 CHEENEY ST. SANTA CLARA, CA 95054



NOTES AND CALCULATIONS



P001

590-054

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PROJECT No.

FIXTURE UNIT COUNTS

FIXTURE UNIT CALCULATIONS												
CALCULATIONS BASED ON 2019 CPC TABLES A103.1 AND 702.1.												
A UNITS												
FIXTURE		FIXTURE U	NITS	•		•	•	TOTAL QTY	TOTAL FIXTURI	EUNITS	•	•
	TOTAL	CW	HW	W/V	1	2	R	OF FIXTURES	SERVICE	CW ONLY	HW ONLY	W/V ONLY
LAVATORY	1	0.75	0.75	1	1	3		4	4	3	3	4
WATER CLOSET (TANK)	2.5	2.5	0	3	1	2		3	7.5	7.5	0	9
SHOWER	2	1.5	1.5	2		2		2	4	3	3	4
BATHTUB	4	3	3	2		1		1	4	3	3	2
CLOTHES WASHER	4	3	3	3	1			1	4	3	3	3
KITCHEN SINK W/ DISHWASHER	3	1.125	2.625	2	1			1	3	1.125	2.625	2
HOSE BIBB	2.5/1	2.5/1	0	0	1			1	2.5	2.5	0	0
									29	23.125	14.625	24
	TOTAL	CW	HW	W/V								
UNIT A FIXTURE UNITS:	29	23.125	14.625	24								
PEAK FLOW:	19.5 GPM											
REQUIRED SERVICE SIZE IN BUILDING:	1-1/2" COPPER			3" @ 2%								
B UNITS												
FIXTURE		FIXTURE U	NITS			•		TOTAL QTY		TOTAL FIX	TURE UNITS	•
	TOTAL	CW	HW	W/V	1	2	R	OF FIXTURES	SERVICE	CW ONLY	HW ONLY	W/V ONLY
LAVATORY	1	0.75	0.75	1	1	3		4	4	3	3	4
WATER CLOSET (TANK)	2.5	2.5	0	3	1	2		3	7.5	7.5	0	9
SHOWER	2	1.5	1.5	2		2		2	4	3	3	4
BATHTUB	4	3	3	2		1		1	4	3	3	2
CLOTHES WASHER	4	3	3	3		1		1	4	3	3	3
KITCHEN SINK W/ DISHWASHER	3	1.125	2.625	2	1			1	3	1.125	2.625	2
HOSE BIBB	2.5/1	2.5/1	0	0	1			1	2.5	2.5	0	0
									29	23.125	14.625	24
	TOTAL	CW	HW	W/V								
UNITB FIXTURE UNITS:	29	23.125	14.625	24								
PEAK FLOW:	19.5 GPM											
REQUIRED SERVICE SIZE IN BUILDING:	1-1/2" COPPER			3" @ 2%								

PLUMBING EQUIPMENT SCHEDULES

		DOMEST	IC WATE	R HEAT	ER SCHED	ULE - G	SAS (1)	
EQUIP NO.	SERVICE	DHW FLOW RATE GPM	WEIGHT, LBS	ENERGY FACTOR	MAX GAS CONSUMPTION (BTU)	DIMENSIONS LxHxW (IN)	ELECTRICAL	BASIS OF DESIGN
WH-1	TOWNHOMES	11	64	0.96	199K	18.5x26.4x11.5	84W 120V 60HZ	RINNAI RU199iN

NOTES: (1) SEE DETAIL 1, P7.00 FOR WATER HEATER PIPING DIAGRAM.

(2) WATER HEATER RECOVERY AND POWER REQUIREMENT ARE BASED ON NON-SIMULTANEOUS OPERATION.

	SUB-METER						
EQUIP NO.	SERVICE	CONNECTION SIZE	DESIGN FLOW/MAX FLOW (GPM)	PRESSURE LOSS (PSI)	BASIS OF DESIGN	NOTES	
CWM-1	DCW SUPPLY	3/4"	15/30	6	NEXT CENTURY M201C	1	

NOTES:

1. ALL DOMESTIC WATER EQUIPMENT SHALL BE NSF-61 LISTED.

	PIPE MATERIALS SCHEDULE (1)		
PIPE TYPE	MATERIAL	JOINT	NOTES
UNDERGROUND WATER SERVICE ENTRANCE PIPING	COPPER, TYPE K.	SOLDERED	(2)
ABOVE GROUND WATER DISTRIBUTION PIPING	PEX, CPVC	SOLVENT CEMENT	(4)
UNDERGROUND WASTE AND VENT PIPING	SCHEDULE 40 SOLID CORE PVC	SOLVENT CEMENT	
ABOVE GROUND WASTE AND VENT PIPING	CAST IRON	HUBLESS COUPLINGS	
UNDERGROUND STORM PIPING	SCHEDULE 40 SOLID CORE PVC	SOLVENT CEMENT	
ABOVE GROUND STORM PIPING	CAST IRON	HUBLESS COUPLINGS	
CONDENSATE DRAIN PIPING	COPPER, TYPE M.	SOLDERED	(3)
NATURAL GAS PIPING	STEEL PIPE, ASTM A 53; TYPE E OR S; GRADE B; SCHEDULE 40	THREADED, WELDED, OR MEGAPRESS	

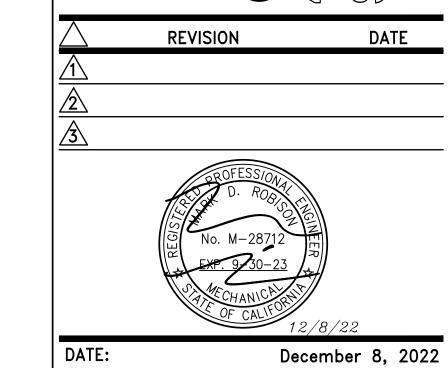
NOTES:(1) ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.

- (2) PLASTIC WRAP UNDERGROUND WATER SUPPLY PIPING TO PREVENT CORROSION.
- (3) CPVC IS ACCEPTABLE FOR CONDENSATE PIPING IN LIEU OF COPPER IF APPROVED BY AHJ.
- (4) PROVIDE THERMAL EXPANSION LOOPS FOR ALL CPVC PIPING PER MANUFACTURER REQUIREMENTS.

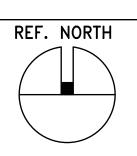




NEW DEVELOPMENT: CHEENEY ST TOWNHOUSES 4249 CHEENEY ST. SANTA CLARA, CA 95054



SCHEDULES AND CALCULATIONS

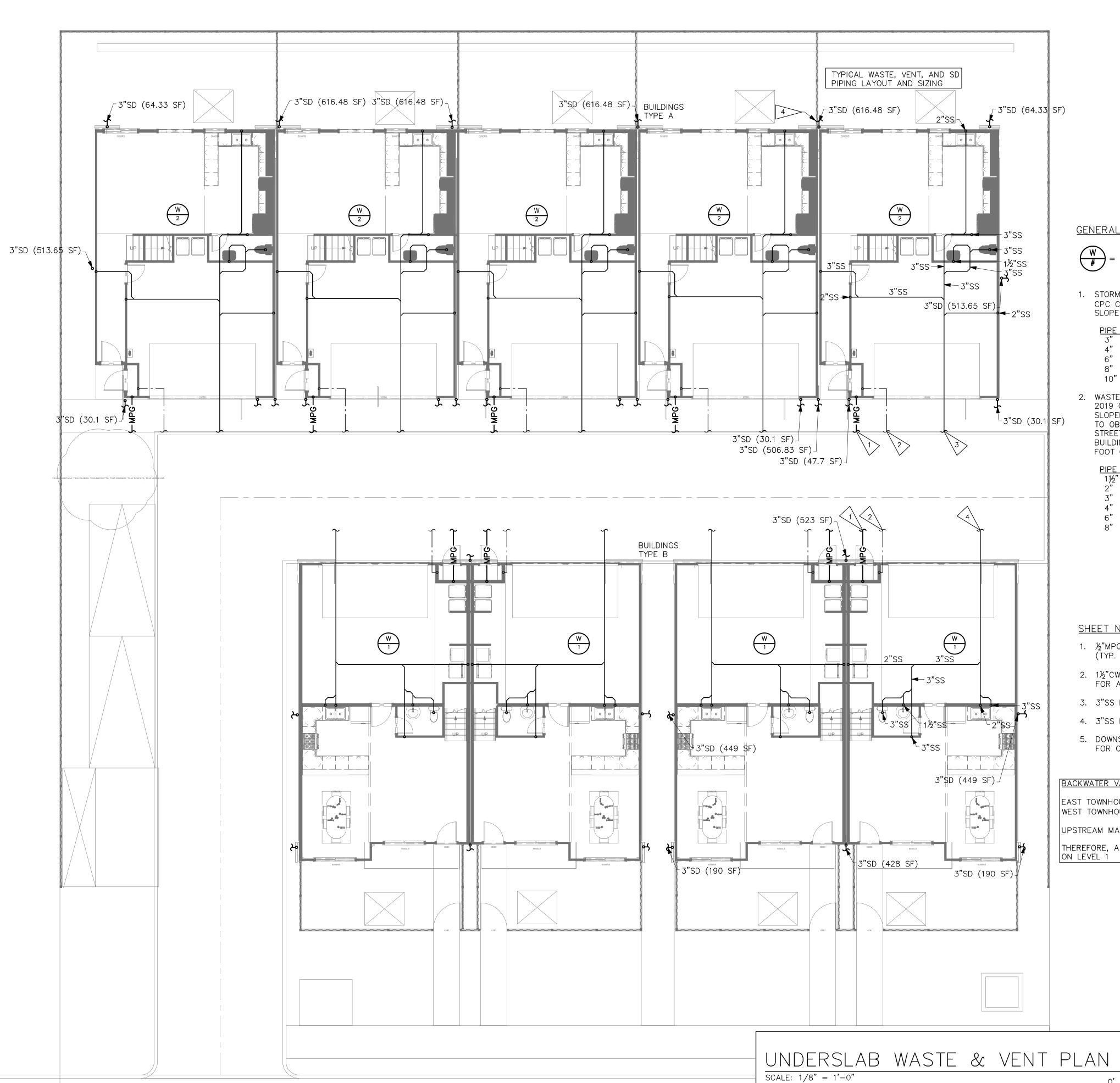


P002

590-054

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PROJECT No.





CONTACT: ARIK ESPINELI

GENERAL NOTES:

W = WASTE/VENT RISER IDENTIFICATION (I.E. RISER "#").
REFER TO P400 SERIES FOR RISER DETAILS AND

1. STORM DRAIN: STORM DRAINAGE PIPING SIZED PER 2019 CPC CHAPTER 11, FOR 1.5"/HR RAINFALL RATE, AT 1/8"/FT SLOPE UNLESS NOTED OTHERWISE:

PIPE SIZE	1% HORI	ZONTAL	VERTICAL
3"	2,192	SF	5,866 SF
4"	5,013	SF	12,266 SF
6"	14,266	SF	36,000 SF
8"	30,666	SF	77,333 SF
10"	55.200	SF	SF

2. WASTE & VENT: WASTE & VENT PIPING IS SIZED PER 2019 CPC TABLE 703.2. DRAINAGE PIPING SHALL BE SLOPED AT 1/4" OR 2% UON. WHERE IT IS IMPRACTICAL TO OBTAIN A SLOPE OF 2% DUE TO THE DEPTH OF THE STREET SEWER OR TO A STRUCTURAL FEATURES OF THE BUILDING. DRAINAGE PIPING MAY BE SLOPED AT 1/8" PER FOOT OR 1% WITH APPROVAL OF AHJ.

PIPE SI	ZE VERT.	2% HORIZ.	VENT
1½"	2 DFU	1 DFU	8 DFU
2"	16 DFU	8 DFU	24 DFU
3"	48 DFU	35 DFU	84 DFU
4"	256 DFU	172 DFU	256 DFU
6 "	1,380 DFU	576 DFU	1,380 DFU
8"	3,600 DFU	2,112 DFU	3,600 DFU

SHEET NOTES: X

- 1. $\frac{1}{2}$ MPG POC. SEE CIVIL PLANS FOR CONT. IN JOINT TRENCH (TYP. FOR ALL TOWNHOUSES)
- 2. 11/2"CW POC. SEE CIVIL DRAWINGS FOR CONTINUATION. (TYP. FOR ALL TOWNHOUSES.)
- 3. 3"SS POC AT 2% SLOPE. IE = 19.739' (BASED ON 6" SOG)
- 4. 3"SS POC AT 2% SLOPE. IE = 20.08' (BASED ON 6" SOG)
- 5. DOWNSPOUT POC TO SITE PLAN SD PIPING. SEE CIVIL PLANS FOR CONT. (TYP. FOR ALL DOWNSPOUTS.)

BACKWATER VALVE ANALYSIS

EAST TOWNHOUSES LEVEL 1 FF = 22.26' WEST TOWNHOUSES LEVEL 1 FF = 22.45'

UPSTREAM MANHOLE RIM =20.07'

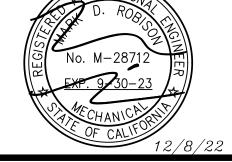
THEREFORE, A BACKWATER VALVE IS NOT REQUIRED FOR FIXTURES



Los Gatos, CA 95030

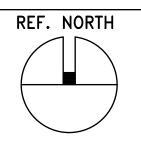
TOWNHOUSES CHEENE

REVISION DATE



DATE: December 8, 2022 PROJECT No. 590-054

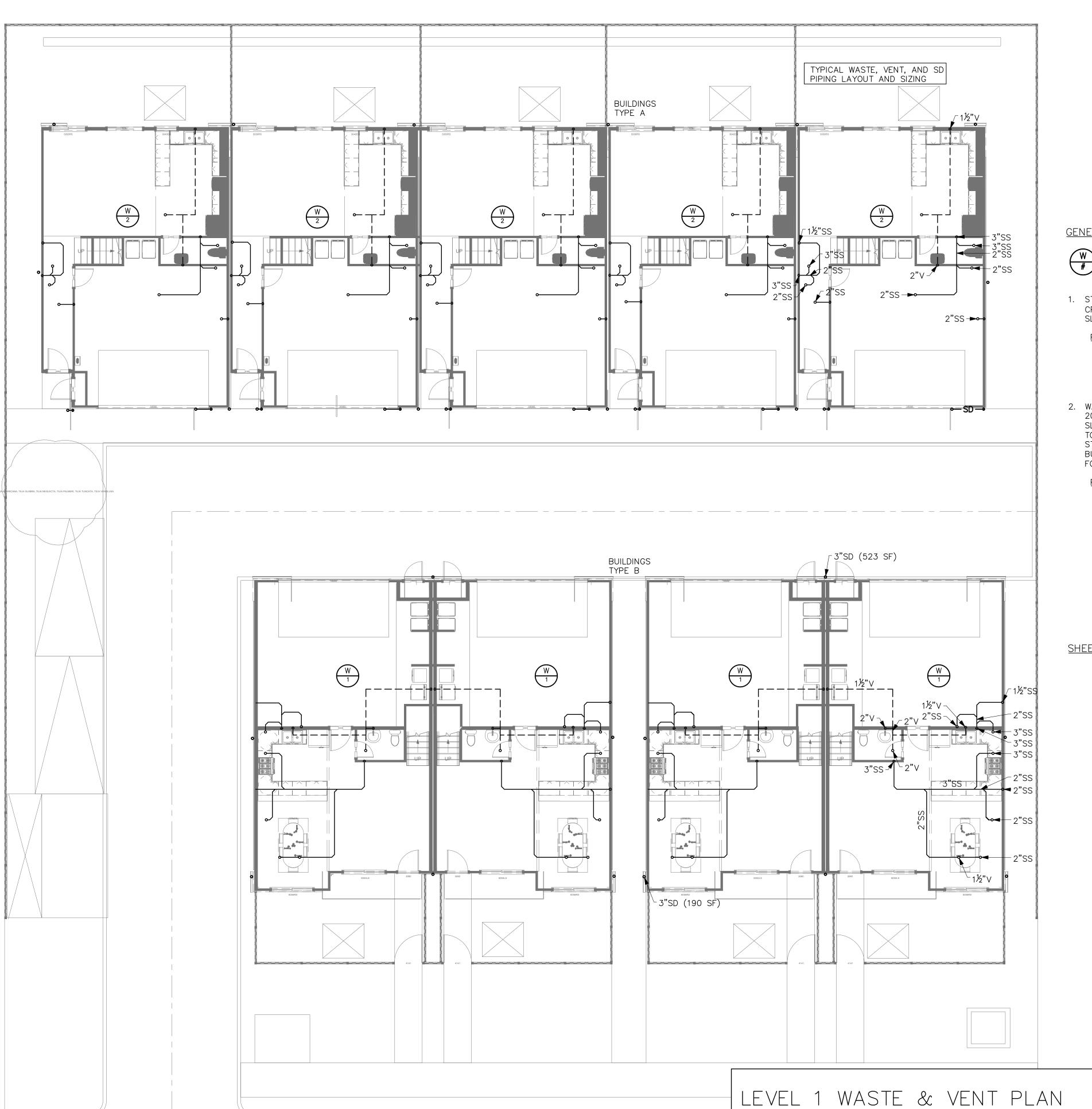
UNDERSLAB WASTE & VENT PLAN



P200

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SCALE: 1/8" = 1'-0"



CONTACT: ARIK ESPINELI

GENERAL NOTES:

W = WASTE/VENT RISER IDENTIFICATION (I.E. RISER "#").
REFER TO P400 SERIES FOR RISER DETAILS AND

1. STORM DRAIN: STORM DRAINAGE PIPING SIZED PER 2019 CPC CHAPTER 11, FOR 1.5"/HR RAINFALL RATE, AT %"/FT SLOPE UNLESS NOTED OTHERWISE:

PIPE SIZE	1% HORI	ZONTAL	VERTICAL
3"	2,192	SF	5,866 SF
4"	5,013	SF	12,266 SF
6"	14,266	SF	36,000 SF
8"	30,666	SF	77,333 SF
10"	55,200	SF	SF

2. WASTE & VENT: WASTE & VENT PIPING IS SIZED PER 2019 CPC TABLE 703.2. DRAINAGE PIPING SHALL BE SLOPED AT 1/4" OR 2% UON. WHERE IT IS IMPRACTICAL TO OBTAIN A SLOPE OF 2% DUE TO THE DEPTH OF THE STREET SEWER OR TO A STRUCTURAL FEATURES OF THE BUILDING. DRAINAGE PIPING MAY BE SLOPED AT 1/8" PER FOOT OR 1% WITH APPROVAL OF AHJ.

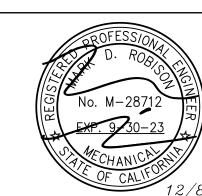
PIPE SIZ	ZE VERT.	2% HORIZ.	VENT
1½"	2 DFU	1 DFU	8 DFU
2"	16 DFU	8 DFU	24 DFU
3"	48 DFU	35 DFU	84 DFU
4"	256 DFU	172 DFU	256 DFU
6"	1,380 DFU	576 DFU	1,380 DFU
8"	3,600 DFU	2,112 DFU	3,600 DFU

SHEET NOTES: X



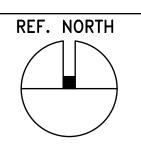
Los Gatos, CA 95030

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DATE:		December	8,	2022
PROJECT	No.	590-	-05	4

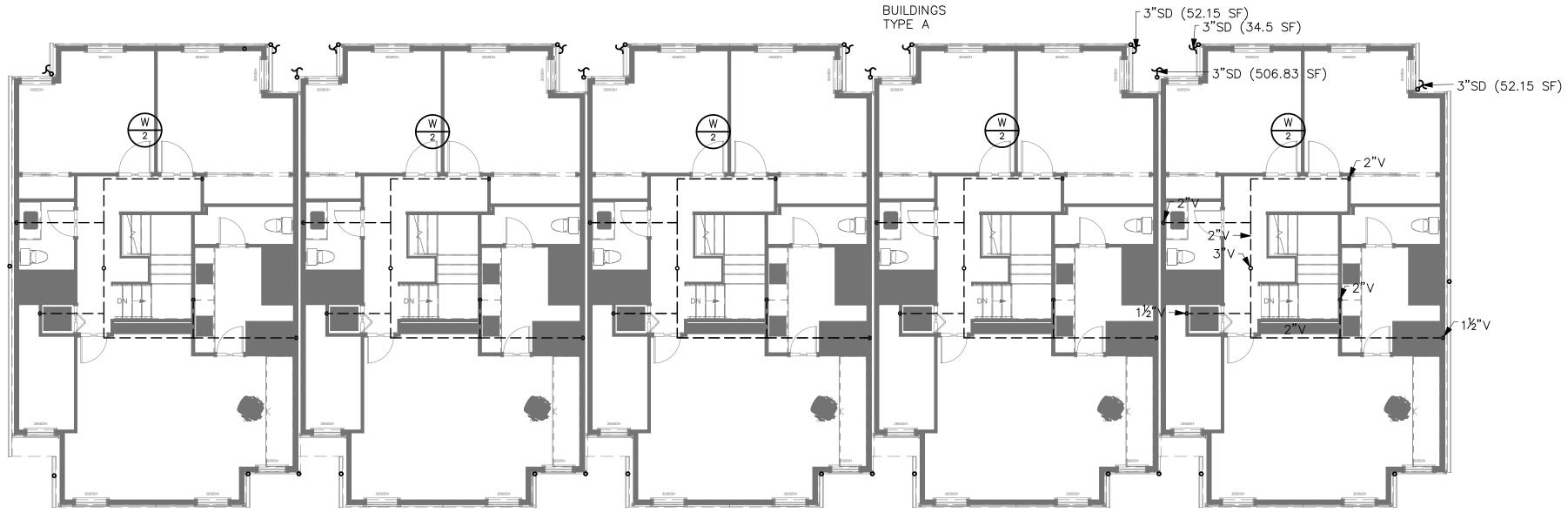
LEVEL 1 WASTE & VENT PLAN

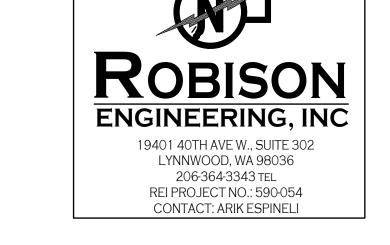


P201

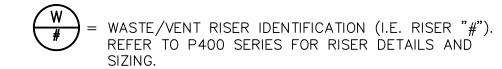
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TYPICAL WASTE, VENT, AND SD PIPING LAYOUT AND SIZING





GENERAL NOTES:



1. STORM DRAIN: STORM DRAINAGE PIPING SIZED PER 2019 CPC CHAPTER 11, FOR 1.5"/HR RAINFALL RATE, AT 1/8"/FT SLOPE UNLESS NOTED OTHERWISE:

PIPE SIZE	1% HORI	ZONTAL	VERTICAL
3"	2,192	SF	5,866 S
4"	5,013	SF	12,266 S
6"	14,266	SF	36,000 S
8"	30,666	SF	77,333 S
1∩"	55 200	CE.	51

2. WASTE & VENT: WASTE & VENT PIPING IS SIZED PER 2019 CPC TABLE 703.2. DRAINAGE PIPING SHALL BE SLOPED AT 1/4" OR 2% UON. WHERE IT IS IMPRACTICAL TO OBTAIN A SLOPE OF 2% DUE TO THE DEPTH OF THE STREET SEWER OR TO A STRUCTURAL FEATURES OF THE BUILDING. DRAINAGE PIPING MAY BE SLOPED AT 1/8" PER FOOT OR 1% WITH APPROVAL OF AHJ.

PIPE SI	ZE VERT.	2% HORIZ.	<u>VENT</u>
1½"	2 DFU	1 DFU	8 DFU
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3"	48 DFU	35 DFU	84 DFU
4"	256 DFU	172 DFU	256 DFU
6"	1,380 DFU	576 DFU	1,380 DFU
8"	3,600 DFU	2,112 DFU	3,600 DFU

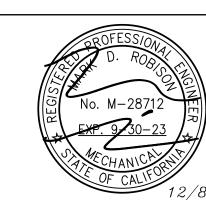
SHEET NOTES: X

GENERAL CONTRACTOR & ENGINEER 101 South Santa Cruz Ave., #33192

Los Gatos, CA 95030

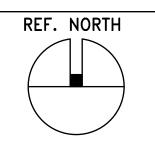
FWT: TOWNHOUSES CHEENE

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	12/0/22	
DATE:	December	8, 2022
PROJECT No.	590-	-054

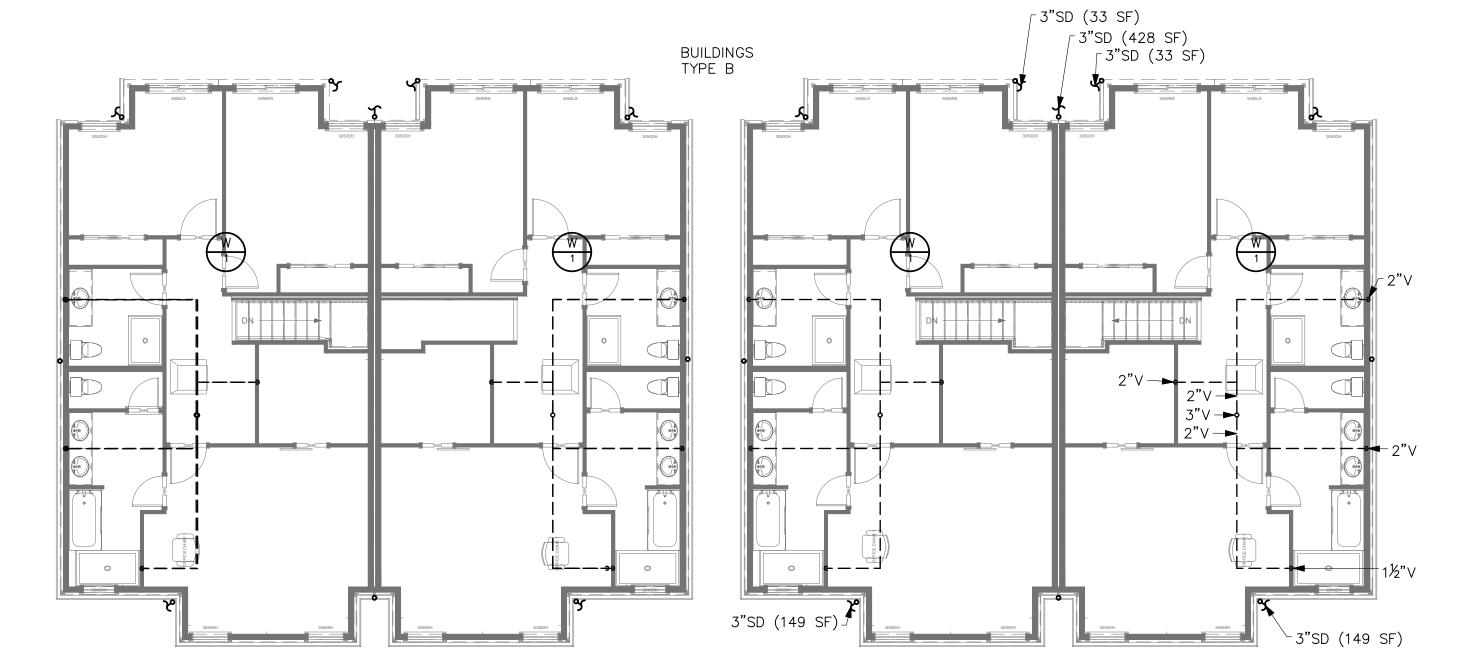
LEVEL 2 WASTE & VENT PLAN



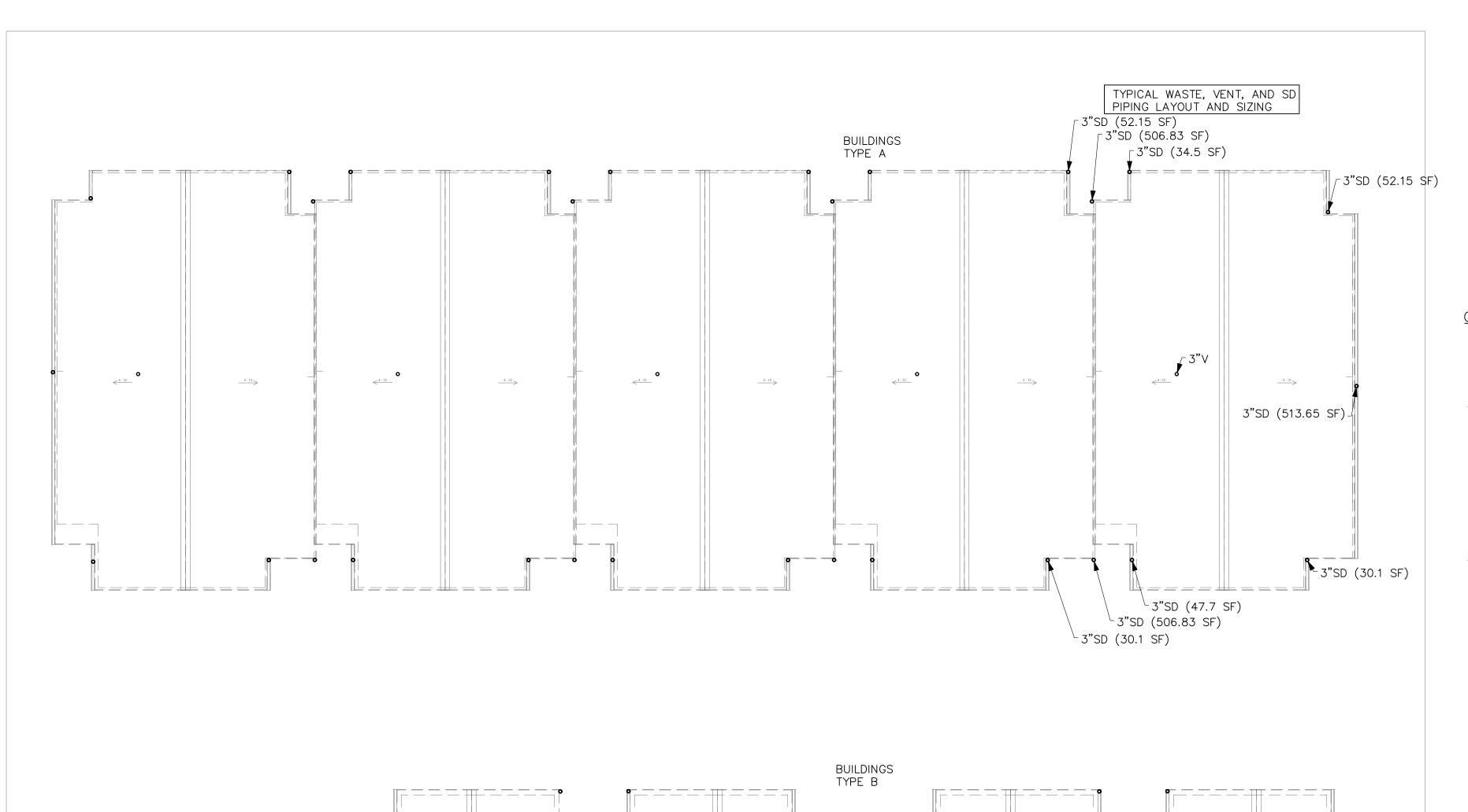
P202

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LEVEL 2 WASTE & VENT PLAN SCALE: 1/8" = 1'-0"





GENERAL NOTES:

W = WASTE/VENT RISER IDENTIFICATION (I.E. RISER "#").
REFER TO P400 SERIES FOR RISER DETAILS AND SIZING.

1. STORM DRAIN: STORM DRAINAGE PIPING SIZED PER 2019 CPC CHAPTER 11, FOR 1.5"/HR RAINFALL RATE, AT %"/FT SLOPE UNLESS NOTED OTHERWISE:

PIPE SIZE	1% HORI	ZONTAL	VERTICAL
3"	2,192	SF	5,866 SF
4"	5,013	SF	12,266 SF
6"	14,266	SF	36,000 SF
8"	30,666	SF	77,333 SF
10"	55,200	SF	SF

2. WASTE & VENT: WASTE & VENT PIPING IS SIZED PER 2019 CPC TABLE 703.2. DRAINAGE PIPING SHALL BE SLOPED AT 1/4" OR 2% UON. WHERE IT IS IMPRACTICAL TO OBTAIN A SLOPE OF 2% DUE TO THE DEPTH OF THE STREET SEWER OR TO A STRUCTURAL FEATURES OF THE BUILDING. DRAINAGE PIPING MAY BE SLOPED AT 1/8" PER FOOT OR 1% WITH APPROVAL OF AHJ.

PIPE SIZ	<u>ZE VERT.</u>	2% HORIZ.	<u>VENT</u>
1½"	2 DFU	1 DFU	8 DFU
2"	16 DFU	8 DFU	24 DFU
3"	48 DFU	35 DFU	84 DFU
4"	256 DFU	172 DFU	256 DFU
6"	1,380 DFU	576 DFU	1,380 DFU
8"	3,600 DFU	2,112 DFU	3,600 DFU

SHEET NOTES: X

GENERAL CONTRACTOR & ENGINEER 101 South Santa Cruz Ave., #33192

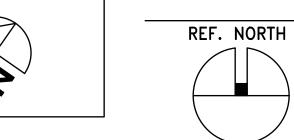
Los Gatos, CA 95030

EVELOPMENT: NEY ST TOWNHOUSES SHEENEY ST. CHEENE

REVISION	DATE
D. ROBISON No. M-28712	
	D. ROBJONAL NO. M-28712

	12/0/22	
DATE:	December	8, 2022
PROJECT No.	590-	-054

ROOF PLUMBING PLAN



P203

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__3"SD (449 SF)∫

⁷ 3"SD (149 SF)





GENERAL NOTES:

S = WASTE/VENT RISER IDENTIFICATION (I.E. RISER "#").
REFER TO P400 SERIES FOR RISER DETAILS AND
SIZING.



Los Gatos, CA 95030

SHEET NOTES: X

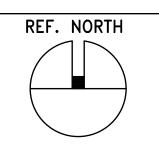
- 1. PEX MANIFOLD FOR SUPPLY PIPING. SEE DETAIL 1,P701.
- 2. 2" CW DOWN. PROVIDE WATER SHUTOFF VALVE (TYP.)
- 3. ½" MPG DOWN

REVISION DATE

	EXP. 9 30-23 CHANICA OF CALIFORNIA
	12/8/22
DATE:	December 8,

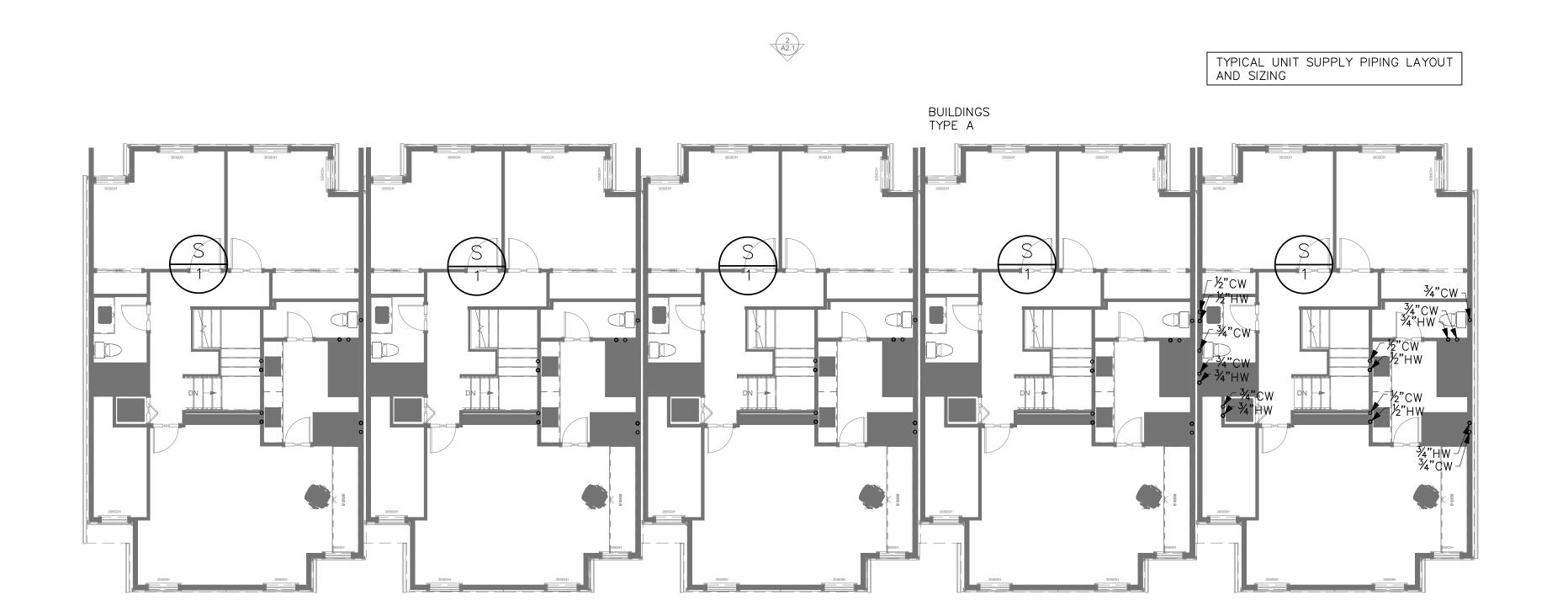
PROJECT No. 590-054

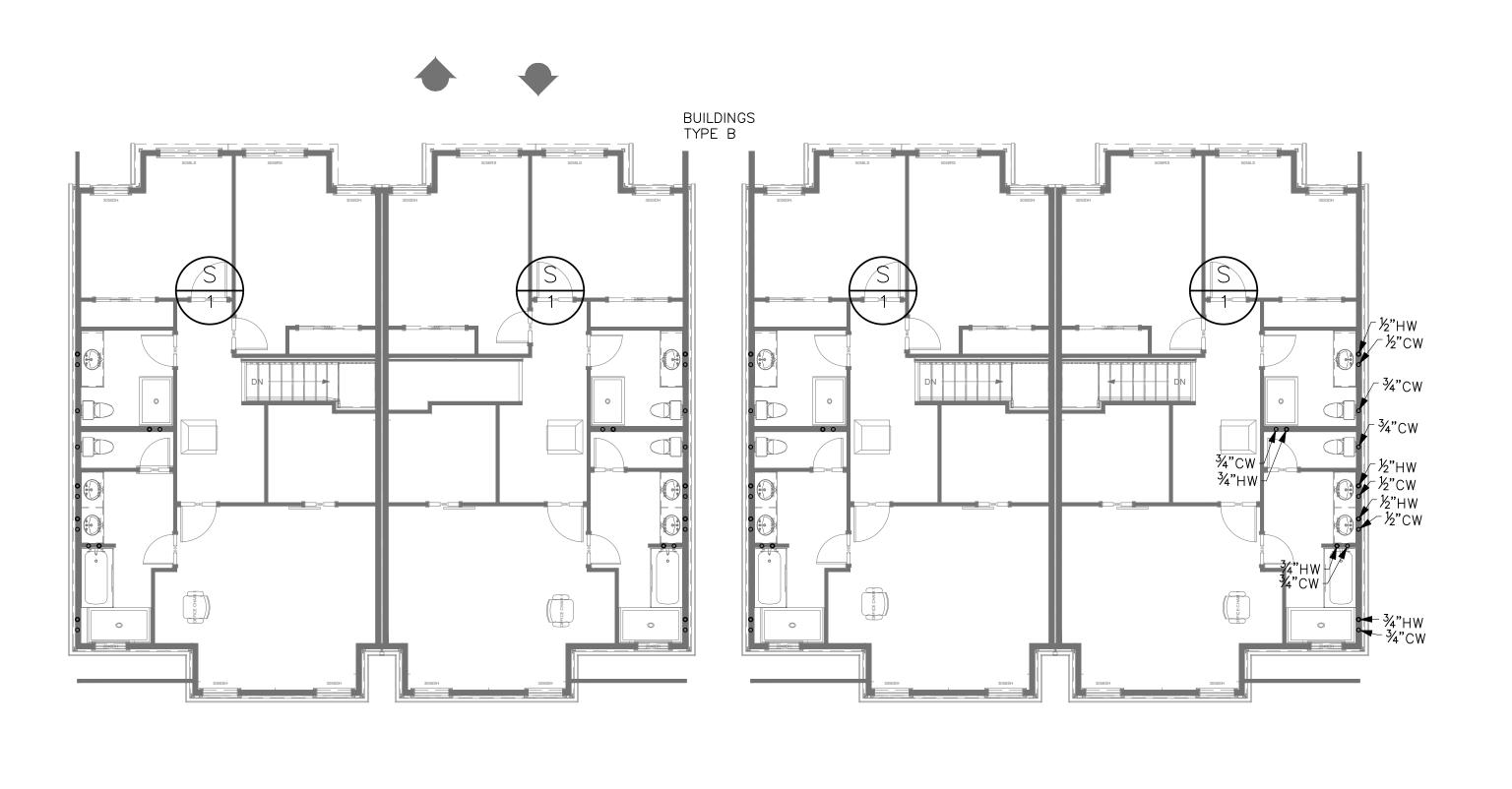
LEVEL 1 SUPPLY PLAN



P301

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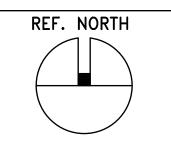




CHEENEY ST TOWNHOUSES 4249 CHEENEY ST. SANTA CLARA, CA 95054

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	No. M-28712 EXP. 9/30-23 OF CALIFO	EFR STATES
DATE:		December 8, 2022

LEVEL 2 SUPPLY PLAN

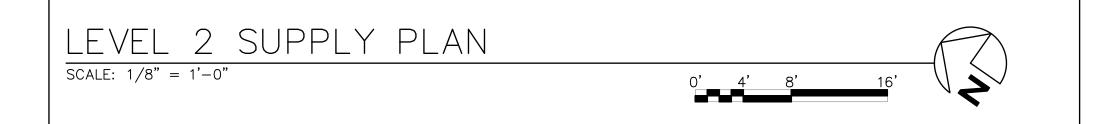


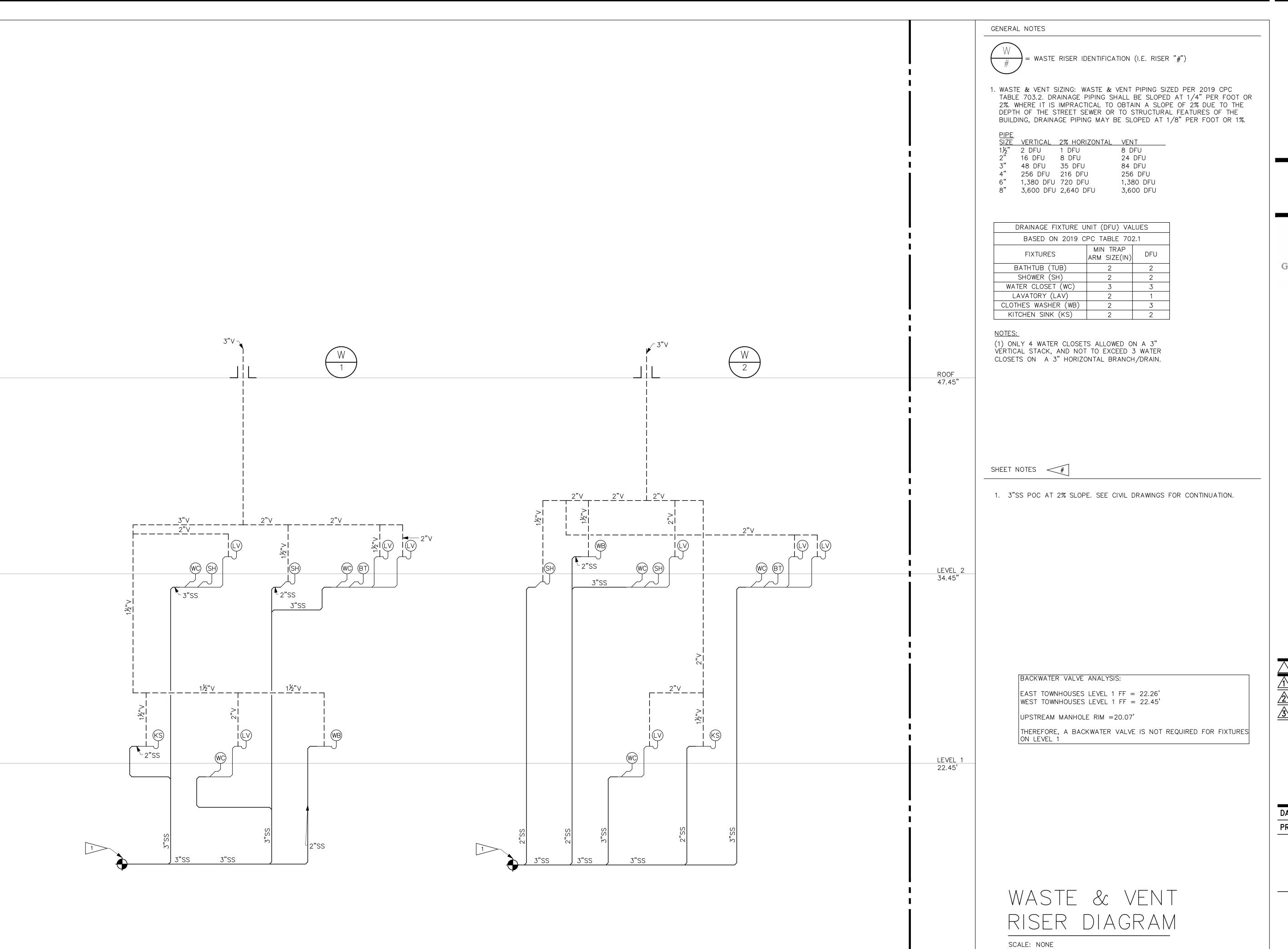
P302

590-054

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PROJECT No.







REI PROJECT NO.: 590-054 CONTACT: ARIK ESPINELI

CONSTRUCTION INC.
GENERAL CONTRACTOR & ENGINEER
101 South Santa Cruz Ave., #33192
Los Gatos, CA 95030

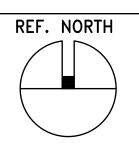
NEW DEVELOPMENT: CHEENEY ST TOWNHOUSES 1249 CHEENEY ST. SANTA CLARA, CA 95054

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PROJECT No.

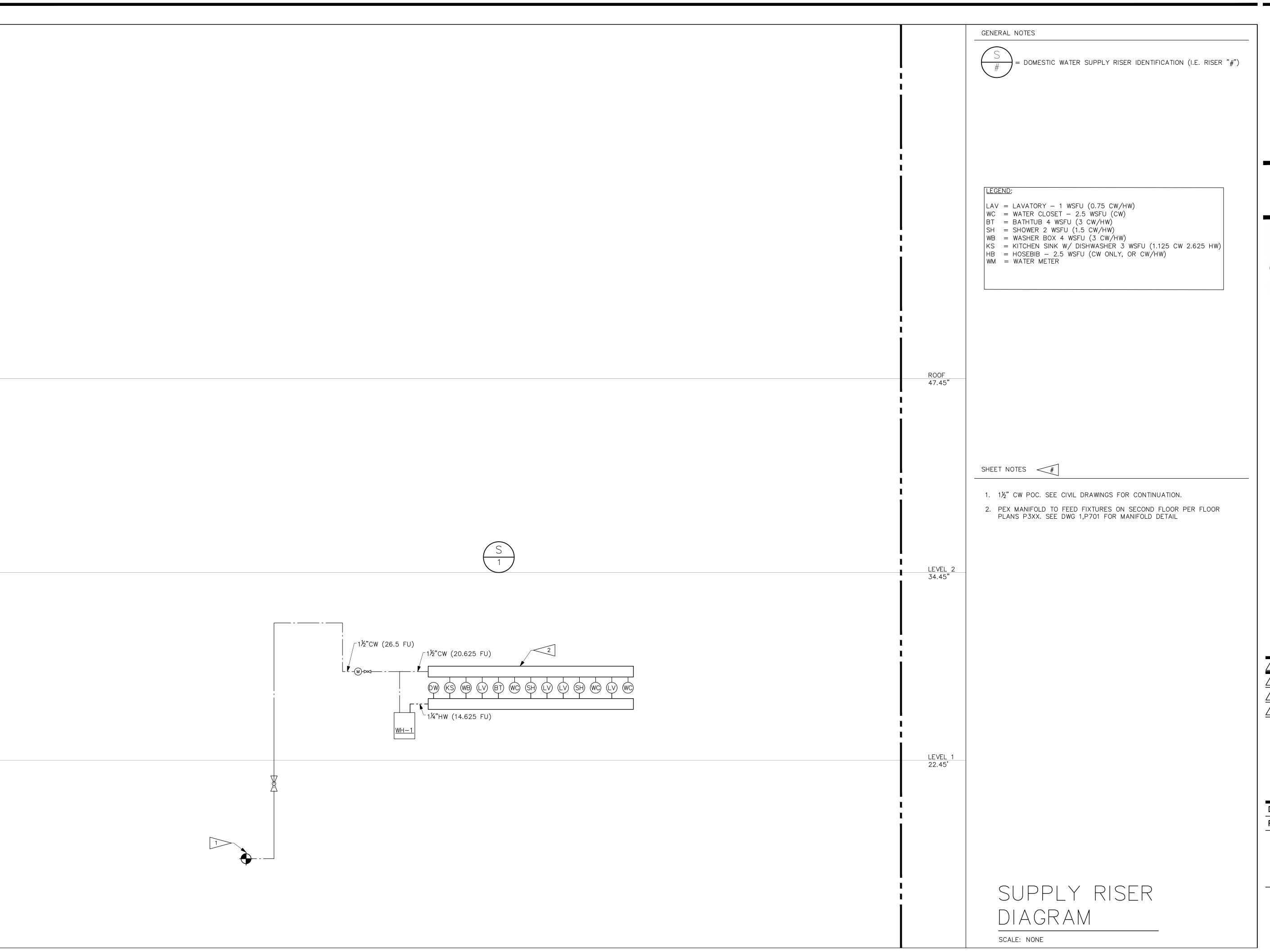
December 8, 2022 590-054

WASTE & VENT RISER DIAGRAM



P401

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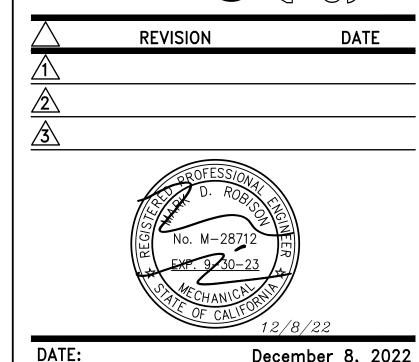




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Los Gatos, CA 95030

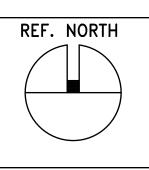
NEW DEVELOPMENT: CHEENEY ST TOWNHOUSES 4249 CHEENEY ST. SANTA CLARA, CA 95054



 DATE:
 December 8, 2022

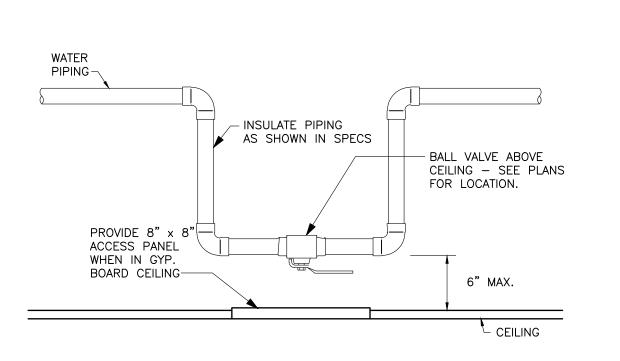
 PROJECT No.
 590-054

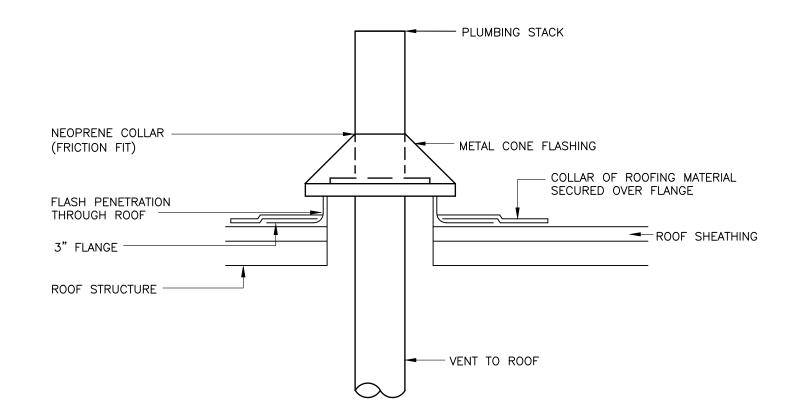
SUPPLY RISER DIAGRAM



P501

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- THROUGH-SLAB

SLEEVE OR WRAP

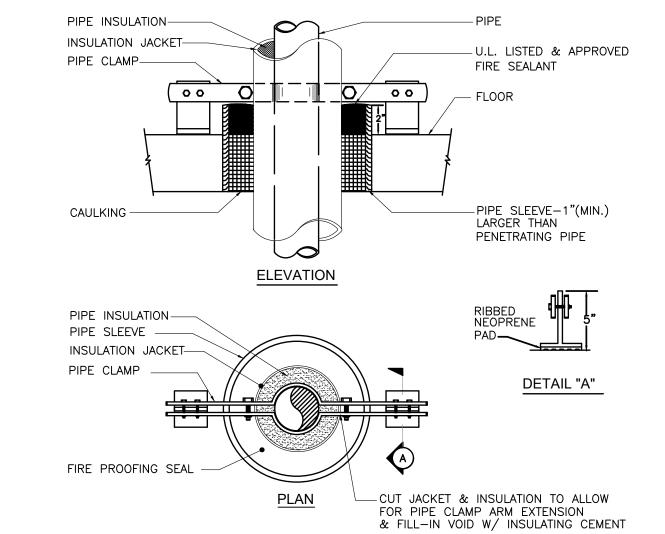
PIPING TO PROTECT

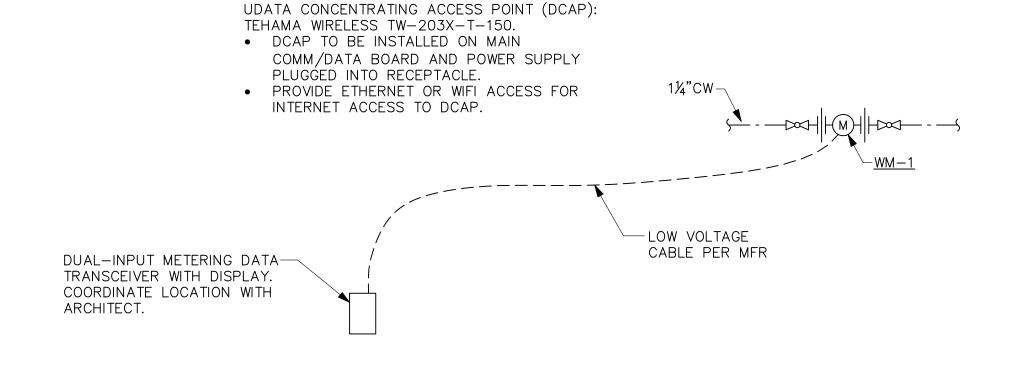
AGAINST BREAKAGE

PENETRTION

PER CODE



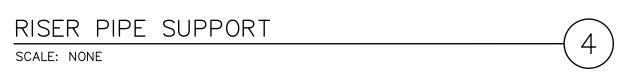




PIPE SLAB PENETRATION SCALE: NONE

CONCRETE FLOOR -

OR WALL



WATER SUB-METER

EQUIPMENT SCHEDULE

METER MODEL M201C, 3/4").

TW-165A-PP.

TW-191X.

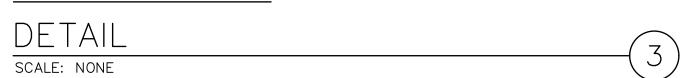
WATER METER (NEXT CENTURY MULTI-JET WATER

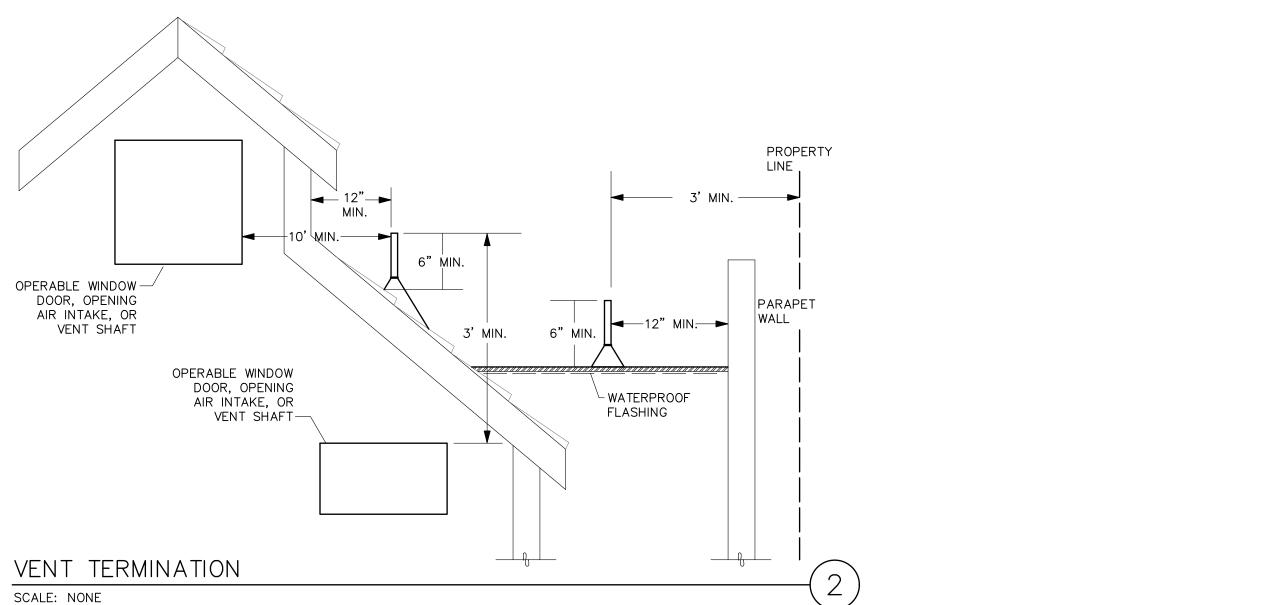
TRANSCEIVER: WIRELESS METERING DATA TRANSCEIVER DUAL INPUT WITH DISPLAY, WITH

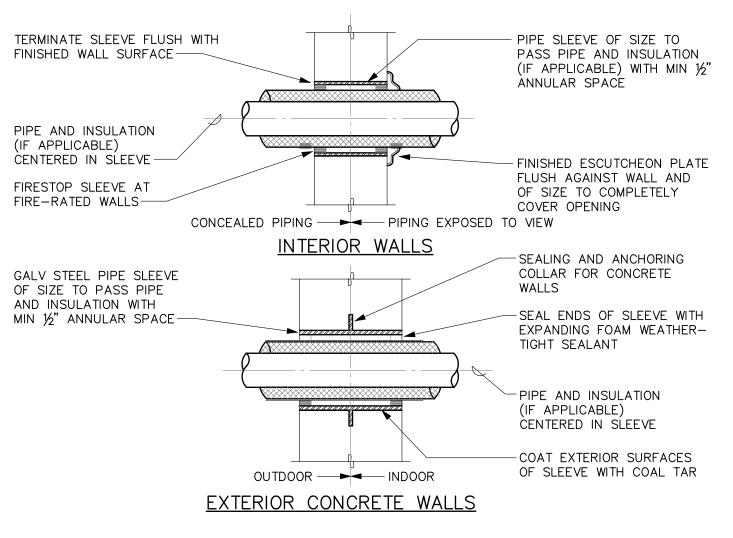
WIRELESS REPEATERS: TEHAMA COMPATIBLE

REPEATERS; QUANTITY TWO. TEHAMA WIRELESS

BATTERIES. TEHAMA WIRELESS MODEL







PIPE SLEEVES THROUGH WALLS SCALE: NONE

CONSTRUCTION INC. GENERAL CONTRACTOR & ENGINEER 101 South Santa Cruz Ave., #33192 Los Gatos, CA 95030

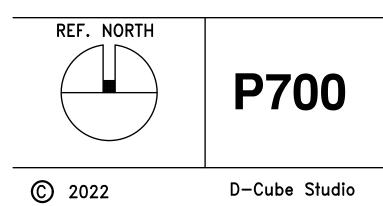
NEY ST TOWNHOUSES

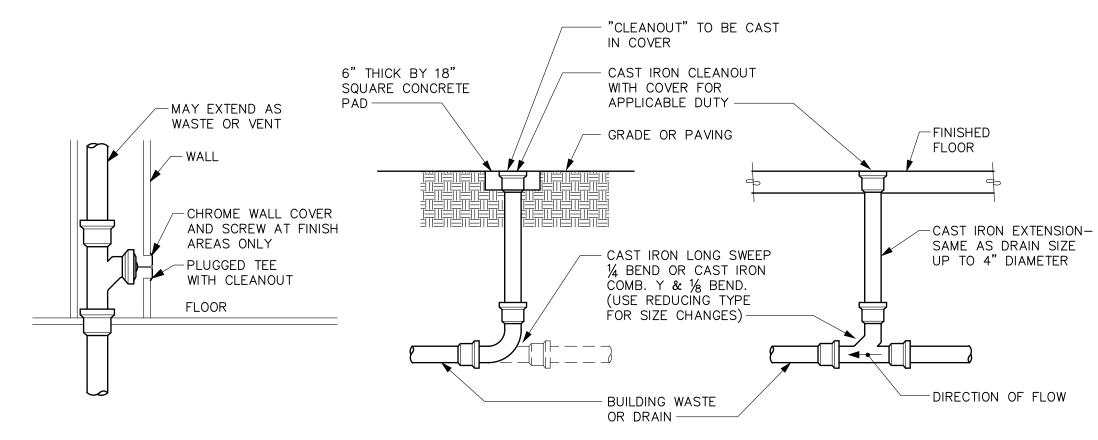
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	No. M-28712 EXP. 9-30-23 MECHANICA OF CALIFORN 12	/8/22
DATE:	Dece	ember 8, 2022

DETAILS

590-054

PROJECT No.



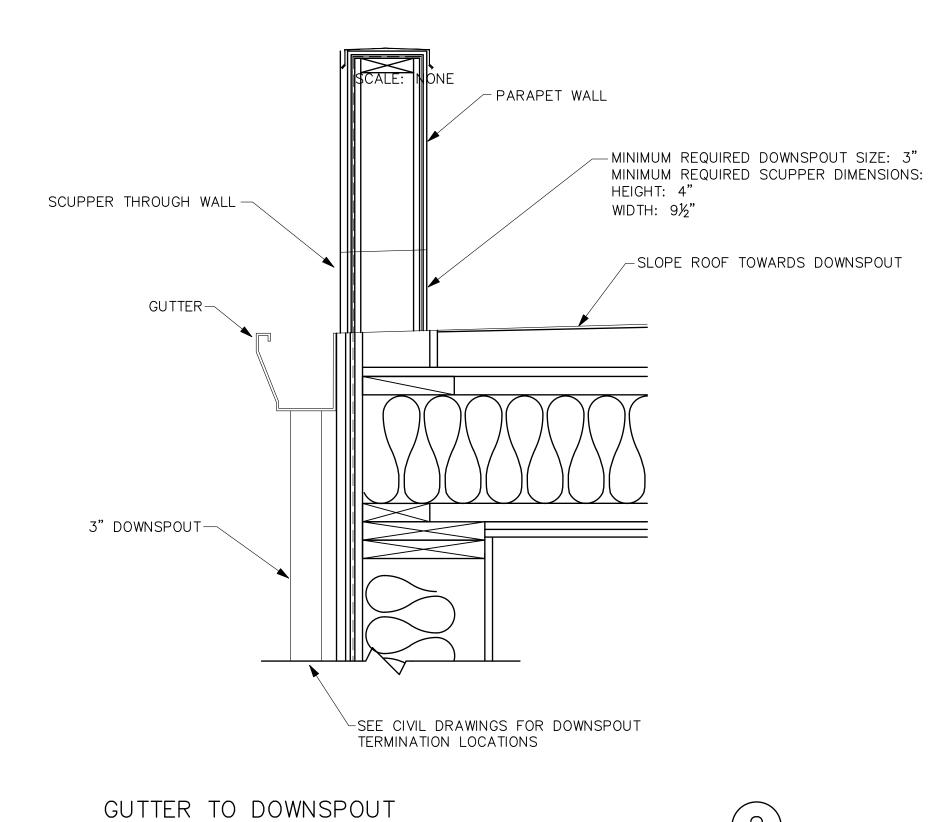


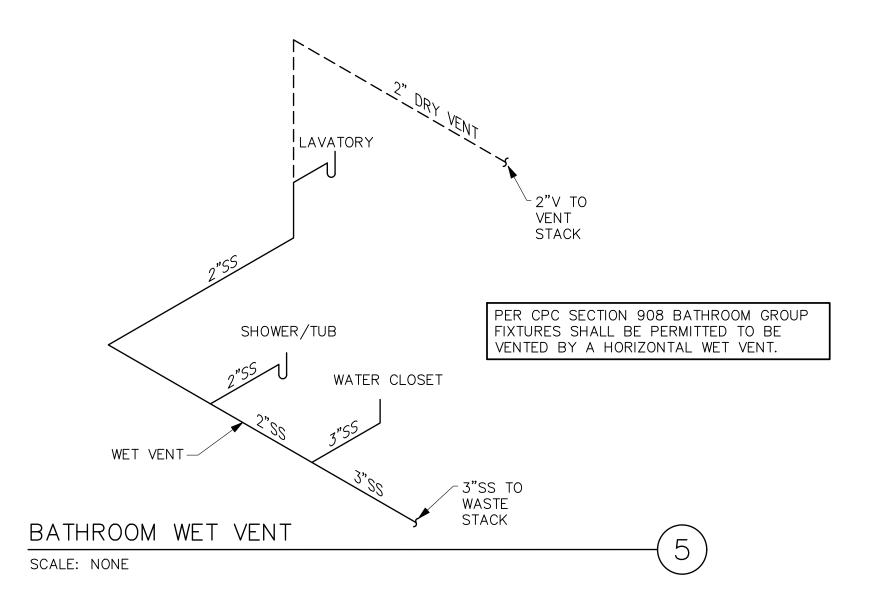
INTERIOR WALL CLEANOUT (WCO) EXTERIOR CLEANOUT TO GRADE (COTG) INTERIOR FLOOR CLEANOUT (FCO) (LIGHT TRAFFIC AREA)

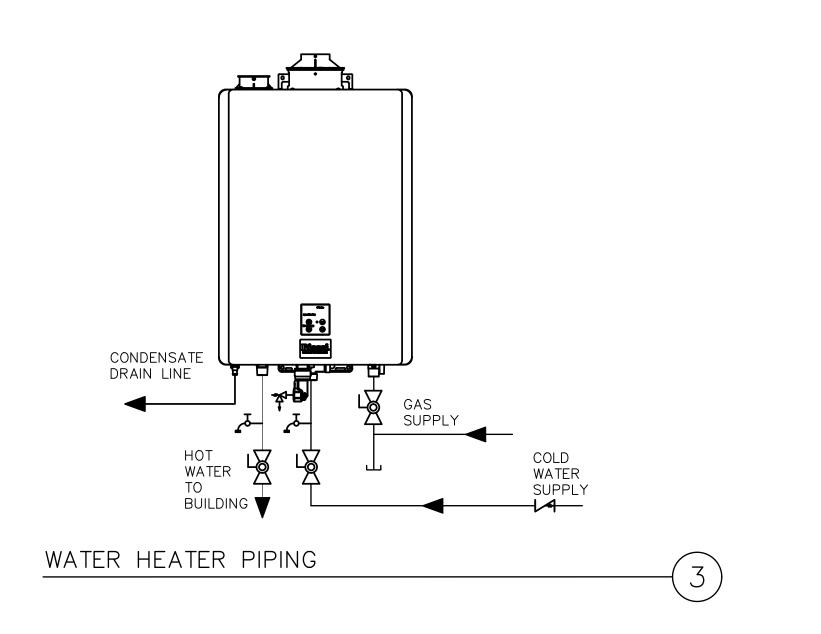
SCALE: NONE

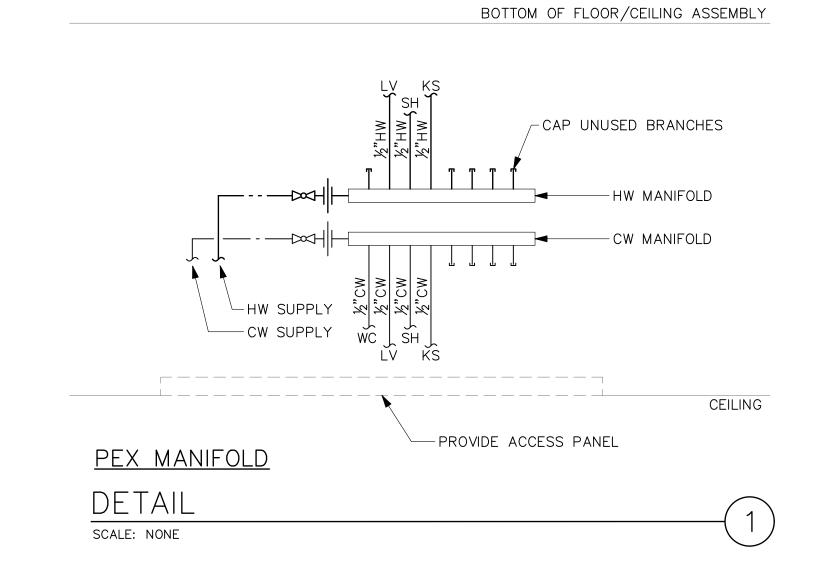
CLEANOUTS

SCALE: NONE













CHEENEY ST TOWNHOUSES 4249 CHEENEY ST. SANTA CLARA, CA 95054

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REGISTER STATES	D. ROBIO No. M-28712 MECHANICA RIVE OF CALIFORNIA 12/8/22
DATE:	December 8, 2022
PROJECT No.	590-054

DETAILS

