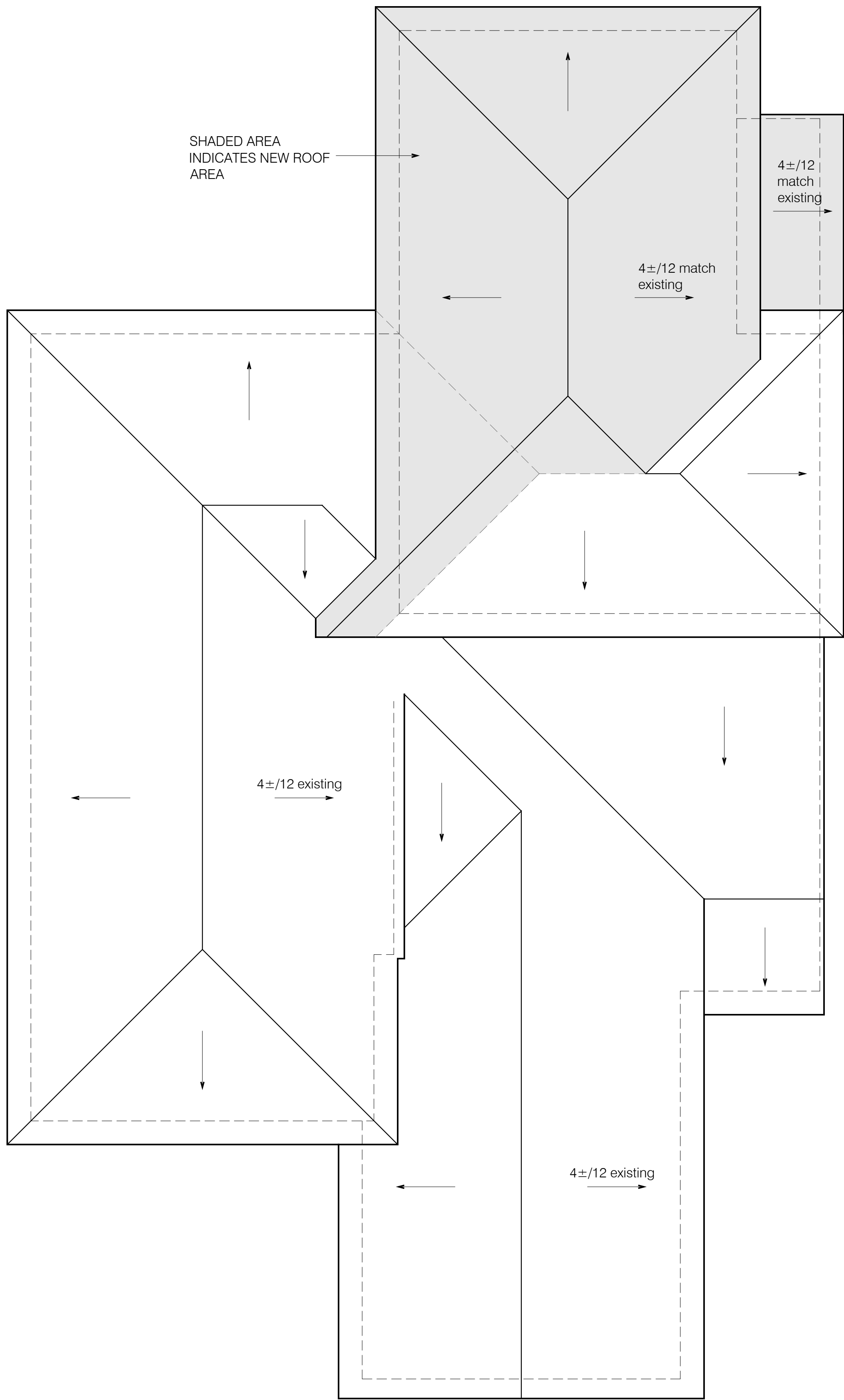


REMODEL AND ADDITION
233 ARUNDEL ROAD, BURLINGAME, CALIFORNIA



PROPOSED ROOF PLAN
1/4"=1'-0"

UTILITIES NOTES

- Sewer Backwater Protection Certification is required for the installation of any new sewer fixture per Ordinance No. 1710. The Sewer Backwater Protection Certificate is required prior to the issuance of Building Permit.

GREEN BUILDING

- Two complete copies of the 2022 Green Building Mandatory Measures Checklist will be submitted with plans to be submitted for Building plan review

PUBLIC WORKS NOTES

- City Public right-of-way Construction Hours (including hauling)
Weekdays 8AM-5PM
Saturdays, Sundays and Holidays No Work Allowed
- If required, a Grading Permit shall be obtained from the Department of Public Works
- This project is a "Type I" project that requires a Stormwater Construction Pollution Prevention Permit. This permit is required prior to issuance of a Building Permit. An initial field inspection is required prior to the start of any construction (on private property or in the public right-of-way).

CONSTRUCTION NOTES

- Construction Hours
Weekdays 8AM-7PM
Saturdays 9AM-6PM
Sundays and Holidays No Work Allowed
- Any hidden conditions that require work to be performed beyond the scope of the building permit issued for these plans may require further City approvals including review by the Planning Commission.
- CITY OF BURLINGAME BUSINESS LICENSE
Anyone doing business in City of Burlingame must have a current City of Burlingame business license.

FIRE PROTECTION NOTES

- FIRE SPRINKLER DRAWINGS SHALL BE A DEFERRED SUBMITTAL
- A fire sprinkler system is required throughout the residence per Burlingame Municipal Code sections 17.04.090 and 17.04.093 and shall be installed in accordance with NFPA 13D. Plans shall be submitted and permit obtained by the Central County Fire Dept.
 - Fast-response fire sprinkler heads shall be installed throughout residence and garage.
 - The suppression contractor shall have a C-16 type license.
 - The suppression contractor shall provide 3 copies of working drawings and calculations to the fire district for plan checking.
 - The fire district shall issue a permit prior to the installation of fire sprinkler system.
 - An owner's manual for the fire sprinkler system shall be provided to the owner.
 - A sign or valve tag shall be installed at the main shutoff valve to the water distribution system stating the following: "Warning, the water system for this home supplies fire sprinklers that require certain flows and pressures to fight a fire. Devices that restrict the flow or decrease the pressure or automatically shut off the water to the fire sprinkler system, such as water softeners, filtration systems and automatic shutoff valves, shall not be added to this system without a review of the fire sprinkler system by a fire protection specialist. Do not remove this sign."
 - USC approved double check valve assembly backflow prevention device shall be installed on fire service line. General contractor shall ensure the double check valve for fire protection shall be tested and approved by a San Mateo County Environmental Health approved contractor prior to scheduling Water Dept. final inspection. See Drawing # W-1780, sht A3.
 - Fire sprinkler test water shall be discharged to to landscape or sanitary sewer.
 - Fire flow shall meet requirements of California Fire Code Appendix B. Fire flow for residential buildings less than 3600 sq. ft. shall be provided at 500 gpm.

PROJECT DATA

scope of work: Add new floor area at First Fir (enlarge Kitchen and Foyer), Second Fir (Primary Suite), and basement; remodel Kitchen/Dining, Bedrooms, stairs, and basement (less than 7' clg); create Family Rm and Powder 1 in existing space; convert portion of Garage to Mudroom and Powder 2.

project address: 233 Arundel Road

APN: 029-251-040

project owner: Erin and Adam Echter

construction type: V-B/sprinklered

occupancy group: R-3/U

zoning: R-1

lot size: ±7,508 sq. ft.

allowable floor area: 0.32x7,508+1,100= 3,503 sq. ft.

lot coverage
allowable: 0.4x7,508=3,003 sq. ft.
proposed: 2,092 sq. ft. (28%)

proposed landscaped/softscaped area: 3,886 sq. ft.

Flood Hazard: Zone X

FLOOR AREA RATIO TABLE

	existing	add	remove	total
main house	2412	590	0	3002
attached garage	365	0	-76	289
rear porch	0	77.5	0	77.5
TOTAL	2777	667.5	-76	3368.5
front porch	53	0	-11	42

ROOM COUNT

	existing main house	proposed main house
bedrooms	4	4
baths	2	3
1/2 baths	0	2

IMPERVIOUS LOT COVERAGE

	existing	%	proposed	%
Main House	1778	24%	2092	28%
Walkway, Patio	1300	17%	950	13%
Driveway	580	8%	580	8%
TOTAL	3658	49%	3622	48%

FLOOR AREA TABLE

	existing	add	remove	total
LIVING				
first floor	1352	323	0	1675
second floor	1060	267	0	1327
subtotal	2412	590	0	3002
garage	365	0	-76	289
TOTAL	2777	590	-76	3291
basement	363	239	0	602

PROJECT DIRECTORY

OWNER
Erin and Adam Echter
233 Arundel Road, Burlingame CA 94010
adam.echter@simon-kucher.com
650.215.3660

ARCHITECT
Elaine Lee
3223 Encinal Avenue, Alameda CA 94501
510.847.0377
elaine@elaineleedesign.com

SURVEYOR
Foresight Land Surveying
301 California Dr, Burlingame CA 94010
415.735.6180

APPLICABLE CODES

2022 California Building Code
2022 California Residential Code
2022 California Mechanical Code
2022 California Plumbing Code
2022 California Green Building Standards Code
2022 California Electrical Code
2022 California Fire Code
2022 California Energy Code
Burlingame Municipal Code
Burlingame Amendments to the California Codes as adopted in Ordinance 1889

SHEET INDEX

A0 Project Data, Roof Plan
A1 Topographic Survey
C-0 Site Plan, Topographic Site Plan
C-1 Civil cover sheet
C-1 Civil Notes
C-2 Grading and Drainage and Utility Plan
C-3 Erosion Control Plan
C-3.1 Best Management Practices
C-4 Civil Details
A2 Existing and Proposed Basement Plan
A3 Existing and Proposed First Floor Plan
A4 Existing and Proposed Second Floor Plan
A5 Existing and Proposed Front and Rear Elevations
A6 Existing and Proposed Left Elevations
A7 Existing and Proposed Right Elevations
A8 Cross Sections, Roof Plan

ELAINE LEE
design

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alameda, ca 94501
510.847.0377



ECHTER REMODEL AND ADDITION
233 ARUNDEL ROAD
BURLINGAME, CALIFORNIA

APN: 029-251 -040

drawing title

revisions

11.13.25

Design Review Cycle 1

date: 08.21.25

scale: as noted

drawn by: EL

job: ECHTER

sheet

A0

of 16 sheets

GENERAL NOTES:

- (1) ALL DISTANCES: (RECORD) = MEASURED, UNLESS OTHERWISE NOTED.
- (2) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL THE UTILITIES MARKED BY THE RESPECTIVE UTILITY COMPANY PRIOR TO CONSTRUCTION.
- (3) PRIOR TO ANY DIGGING, CALL U.S.A. (811) AT LEAST 48 HOURS IN ADVANCE TO HAVE EXISTING UNDERGROUND UTILITIES MARKED.
- (4) GROUND CONDITIONS SHOWN HEREON REFLECT CONDITIONS ON THE DATE OF THE SURVEY.
- (5) ENCROACHMENT UPON AND BY THE ADJOINING PRIVATE PROPERTY(IES) ARE HEREBY NOTED AND IT SHALL BE THE RESPONSIBILITY SOLELY OF THE PROPERTY OWNERS INVOLVED TO RESOLVE ANY ISSUE WHICH MAY ARISE THEREFROM.
- (6) SINCE A CURRENT POLICY OF TITLE INSURANCE WAS NOT AVAILABLE AT THE TIME OF THIS SURVEY, THE CONSULTANT IS NOT RESPONSIBLE FOR THE OMISSION HEREON OF ANY FACTS WHICH WOULD NORMALLY BE DISCLOSED BY SUCH A POLICY, INCLUDING THE LOCATION AND PRESENCE OF EASEMENTS.
- (7) ROOF/EAVE ELEVATIONS WERE TAKEN AT HIGHEST RELEVANT POINT(S) VISIBLE FROM THE GROUND.
- (8) TREES WERE LOCATED BY ESTIMATING THE CENTER OF THE TREE WHERE IT ENTERS THE GROUND & IDENTIFYING THE DIAMETER AT BREAST HEIGHT. TREE TYPES MAY BE VERIFIED BY A CERTIFIED ARBORIST, IF NECESSARY.
- (9) ONLY ACCESSIBLE SURFACE UTILITIES VISIBLE ON THE DATE OF THIS SURVEY ARE SHOWN. THIS SURVEY DOES NOT SHOW THE LOCATION OF, OR ENCROACHMENTS BY SUBSURFACE UTILITIES, FOOTING, FOUNDATIONS AND/OR BASEMENTS OF BUILDINGS. ALL USERS ARE ADVISED TO CONTRACT SEPARATELY WITH AN UNDERGROUND UTILITY LOCATION COMPANY AND TO REVIEW PUBLIC, QUASI-PUBLIC AND GIS UTILITY DATA SOURCES IF THEY WANT MORE INFORMATION.
- (10) THE BUILDING FOOTPRINT SHOWN IS AT GROUND LEVEL UNLESS OTHERWISE NOTED.
- (11) ONLY VISIBLE ACCESSIBLE GROUND LEVEL PERIMETER FEATURES ARE SHOWN. NON ACCESSIBLE / OVERHEAD / SUBTERRANEAN ENCROACHMENTS MAY EXIST.
- (12) THE INFORMATION SHOWN ON THIS MAP SHALL NOT BE USED FOR ANY IMPROVEMENT STAKING OR CONSTRUCTION. ANY LAYOUT OR CONSTRUCTION SHALL BE BASED ON SITE STAKING PERFORMED BY THIS OFFICE.
- 13 ANY REPRODUCTION OF THIS MAP WITHOUT MY PROFESSIONAL LAND SURVEYOR'S STAMP AND WET SIGNATURE IS NOT CONSIDERED AN ORIGINAL VERSION OF THIS MAP.

BASIS OF ELEVATION

FOUND CITY OF BURLINGAME BENCHMARK #32. ELEVATION = 23.043'. NGVD 1929.

BASIS OF SURVEY

GRANT DEED RECORDED NOVEMBER 24, 2020 AS DOC: 2020-133472. OFFICIAL RECORDS OF SAN MATEO COUNTY.

LEGEND

BLD	BUILDING	NWLY	NORTHWESTERLY
BR	BRICK	OH	OVERHANG
BST	BOTTOM OF STEP	PA	PLANTER
BW	BASE OF WALL	RP	ROOF PEAK
BX	BOTTOM OF DRIVEWAY "X"	RR	ROOF RIDGE
CC	CEMENT CONCRETE	SE'LY	SOUTHEASTERLY
CO	CLEANOUT	SW'LY	SOUTHWESTERLY
CONC	CEMENT CONCRETE	TC	TOP OF CURB
DWY	DRIVEWAY	TD	TOP OF DRAIN
EC	EDGE OF CEMENT CONCRETE	TG	TOP OF ROOF GUTTER
ELEV	ELEVATION	TP	TILED PEAK
FF	FINISHED FLOOR	TST	TOP OF STEP
FL	FLOWLINE	TV	CABLE TELEVISION BOX
L	LAWN	TW	TOP OF WALL
LND	LANDING	TX	TOP OF DRIVEWAY "X"
NG	GROUND	WM	WATER METER
NE'LY	NORTHEASTERLY		
---	PROPERTY LINE	+	FOUND CUT CROSS
---	DECK OR OVERHANG	+ IRCV	IRRIGATION CONTROL VALVE
---	FLOWLINE	+ UP	JOINT USE UTILITY POLE
---	GRADE BREAK	+ CO	SANITARY SEWER CLEANOUT
---	ROOF LINE	+ X	SPOT ELEVATION
---	WOOD FENCE OR RAILING	+ X	SURVEY CONTROL POINT
---	CONTOUR (0.5' INTERVAL)	+ X	TREE (DIAMETER IN INCHES)
		+ WM	WATER METER

APN: 029-251-040

DOC: 2023-021921
811 BURLINGAME AVE.
1 STORY BUILDING

APN: 029-251-020

DOC: 2015-042670
805 BURLINGAME AVE.
1 STORY BUILDING

APN: 029-251-030

DOC: 2021-110763
801 BURLINGAME AVE.
1 STORY BUILDING

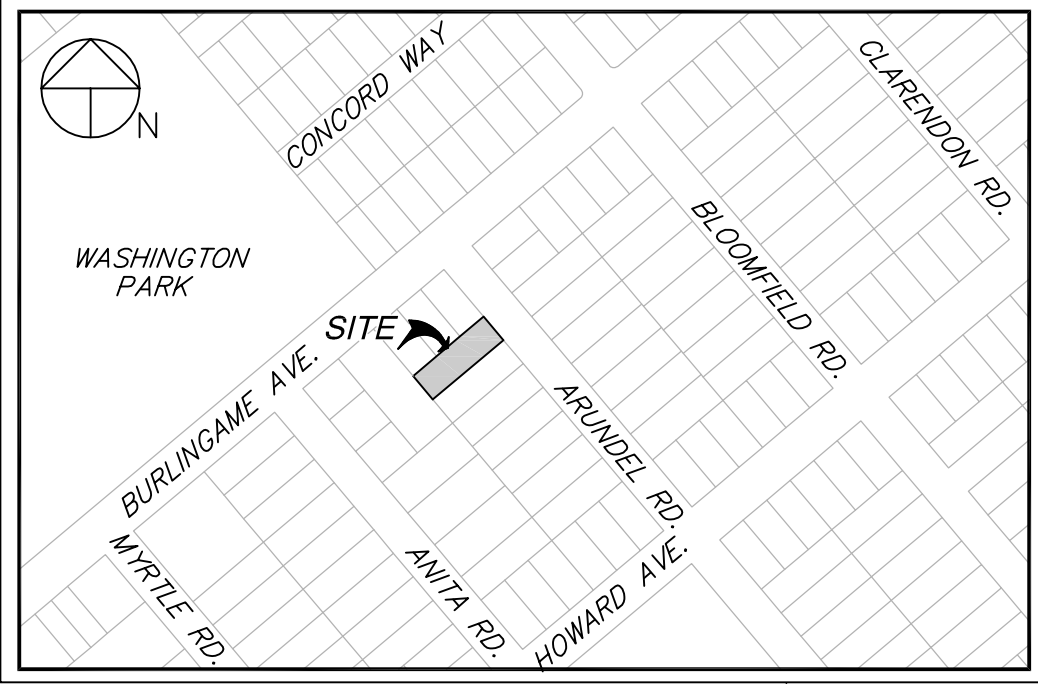
APN: 029-251-040

233 ARUNDEL ROAD
3 STORY BUILDING

LOT AREA = 7,508± SQ.FT.

APN: 029-251-050

DOC: 2024-117033
229 ARUNDEL RD.
1 STORY BUILDING



ARUNDEL ROAD
(60.00' WIDE)

DATE: MAY 31, 2024

SCALE: 1"=8'

DRAWN: P.H.-D.

CHECKED: G.T.I.

REVISION	DATE



FORESIGHT
LAND SURVEYING

301 CALIFORNIA DRIVE SUITE #2
BURLINGAME, CA 94010
415-735-6180

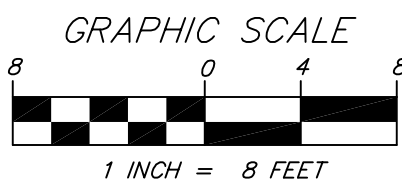
SITE SURVEY
233 ARUNDEL ROAD
BURLINGAME, CA

APN: 029-251-040
SAN MATEO COUNTY, CALIFORNIA

SHEET 1
OF
1 SHEETS

JOB No.

24043



SITE PLAN LEGEND

- property line
- required setback line
- 1st flr wall
- 2nd floor wall
- fence
- tree protection fencing
- 1st floor area existing
- 1st floor area new
- 2nd floor area existing
- 2nd floor area new
- 1-hour wall

- Site Plans drawn on survey by Foresight Land Surveying, dated 5-31-24
- A Type I Stormwater Pollution Prevention Permit is required at the time of issuance of a Building Permit. An initial field inspection is required prior to the start of any construction (on private property or in the public right-of-way).
- No permanent structures (retaining walls, fences, columns, mailbox, etc) shall be located beyond the property lines and into the public right-of-ways

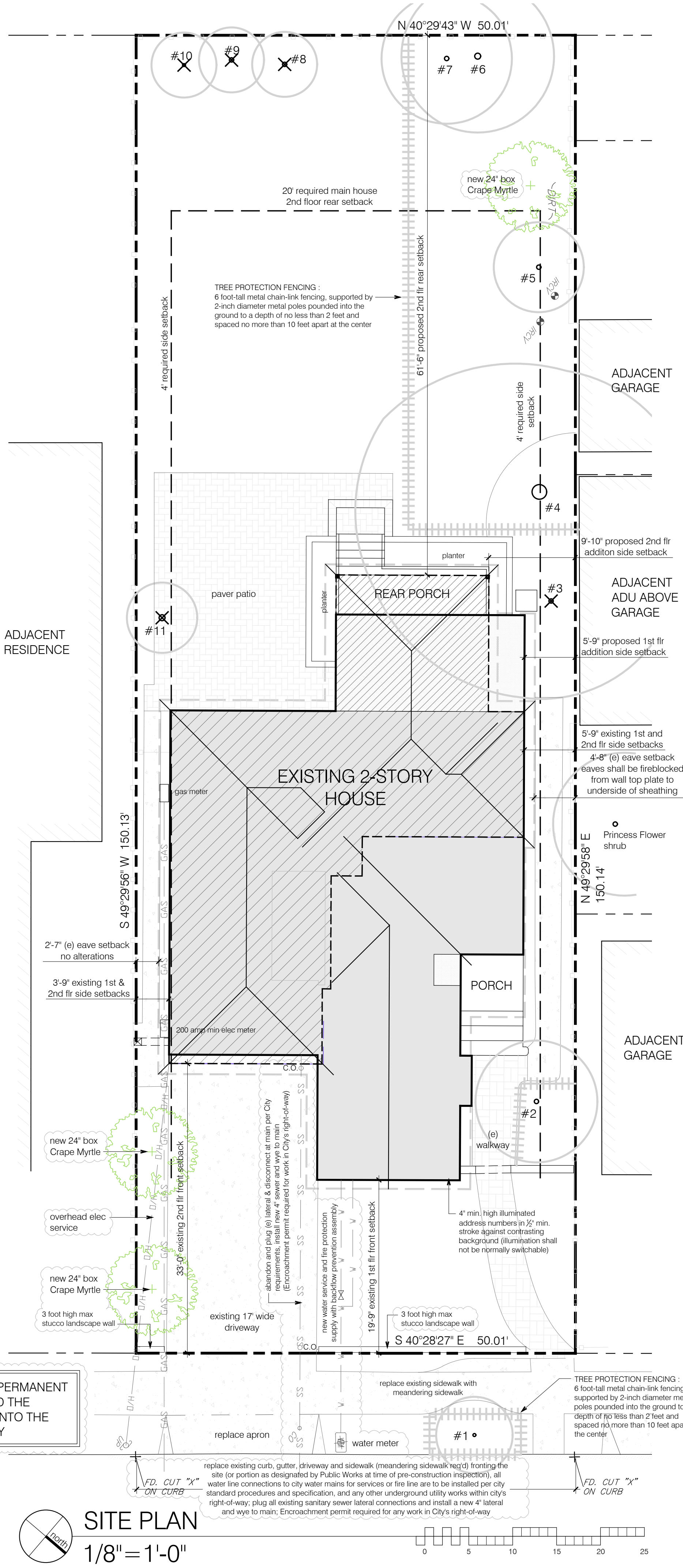
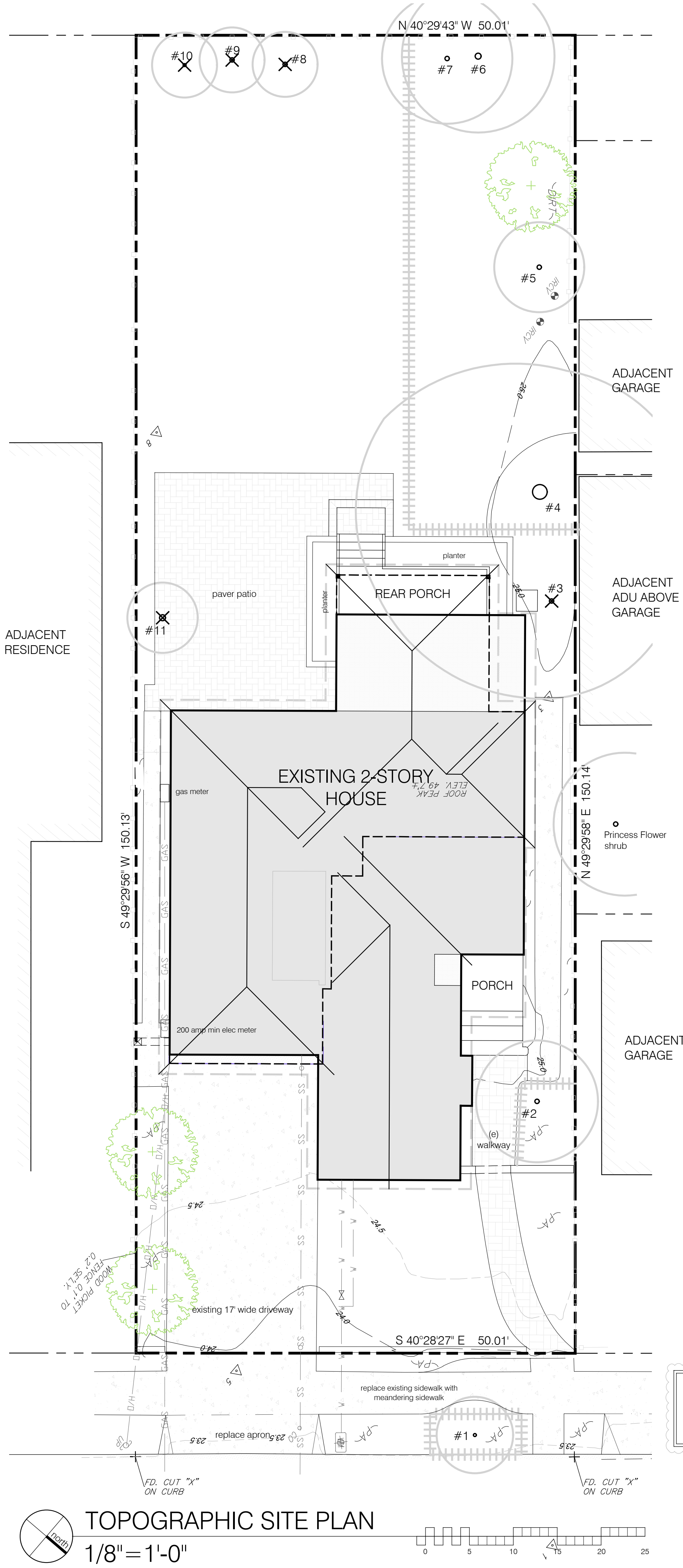
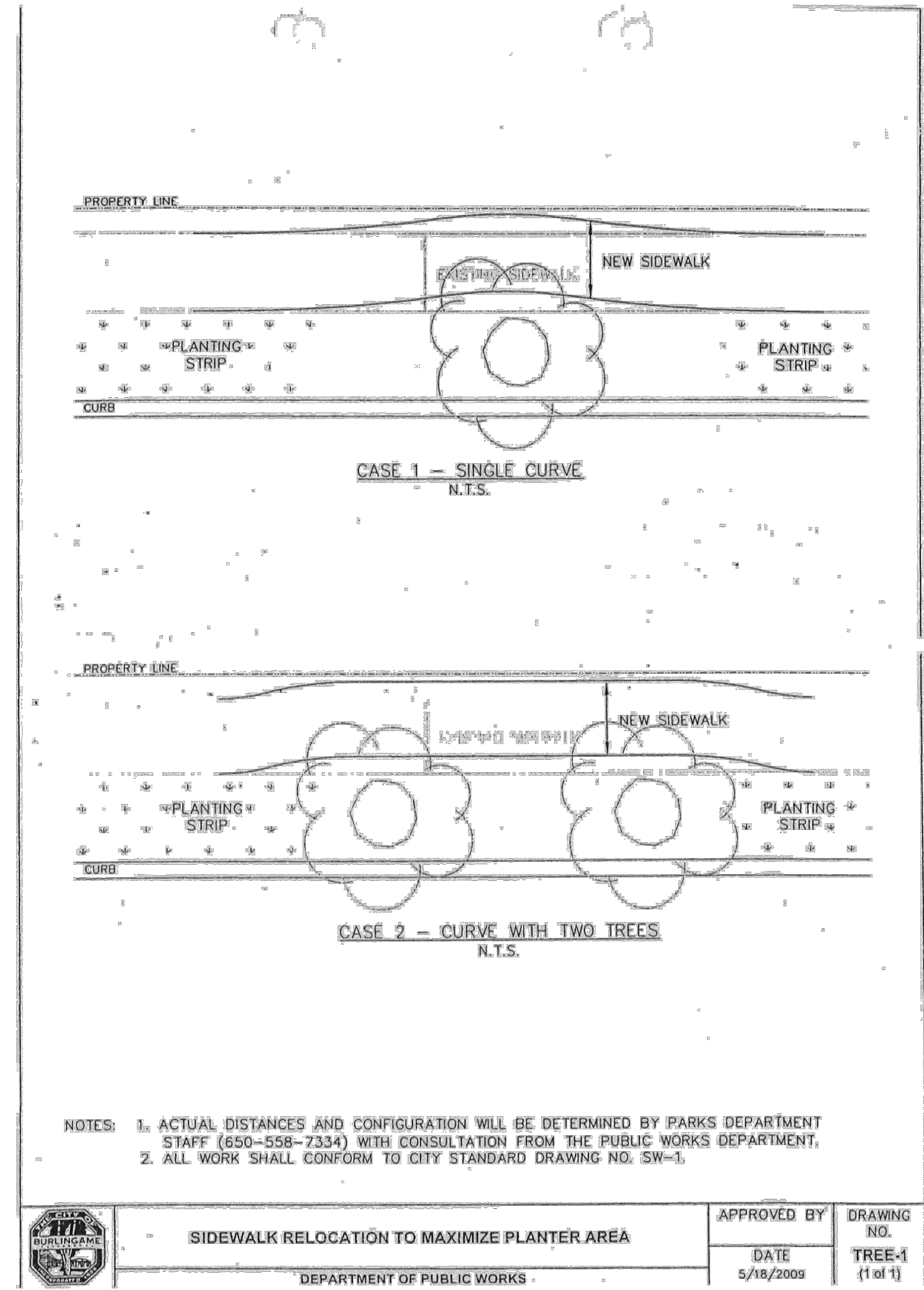
OUTDOOR MECHANICAL EQUIPMENT
New A/C unit or mechanical equipment is to be installed on the exterior of the building, the new equipment cannot exceed a Maximum Outdoor Noise Level (dBA) of 60 dBA Daytime (7:00 AM-10:00 PM) or 50 dBA Nighttime (10:00 PM-7:00 AM) as measured from the property line.

ROOF PROJECTIONS:
No roof eaves shall project within two feet of property lines

TREE INVENTORY				
Tag	Common name	Scientific Name	DBH	Remove
1	Elm	Ulmus	4"	N
2	Mandarin	Citrus reticulata	6"	N
3	Avocado	Persea americana	6"	Yes
4	Avocado	Persea americana	20"	N
5	Black Mission fig	Ficus carica 'Mission'	6"	N
6	Fuyu Persimmon	Diospyros kaki 'Fuyu'	8"	N
7	Hachiya Persimmon	Diospyros kaki 'Hachiya'	6"	N
8	Plum	Prunus domestica	6"	Yes
9	Cherry Plum	Prunus cerasifera	6"	Yes
10	Bartlett Pear	Pyrus communis 'Bartlett'	4"	Yes
11	Loquat	Eriobotrya japonica	8"	Yes

TREES TO BE PLANTED		
Quantity	Common name	Scientific Name
3	Crape Myrtle 'Powhatan'	Lagerstroemia indica 'POWHATAN'
		24" box

URBAN FOREST
THREE NEW NON-FRUIT TREES, 24" BOX SIZE OR LARGER, SHALL BE PLANTED ON THE PARCEL PRIOR TO FINAL INSPECTION.



ELAINE LEE
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ECHTER REMODEL AND ADDITION
233 ARUNDEL ROAD
BURLINGAME, CALIFORNIA

APN: 029-251-040

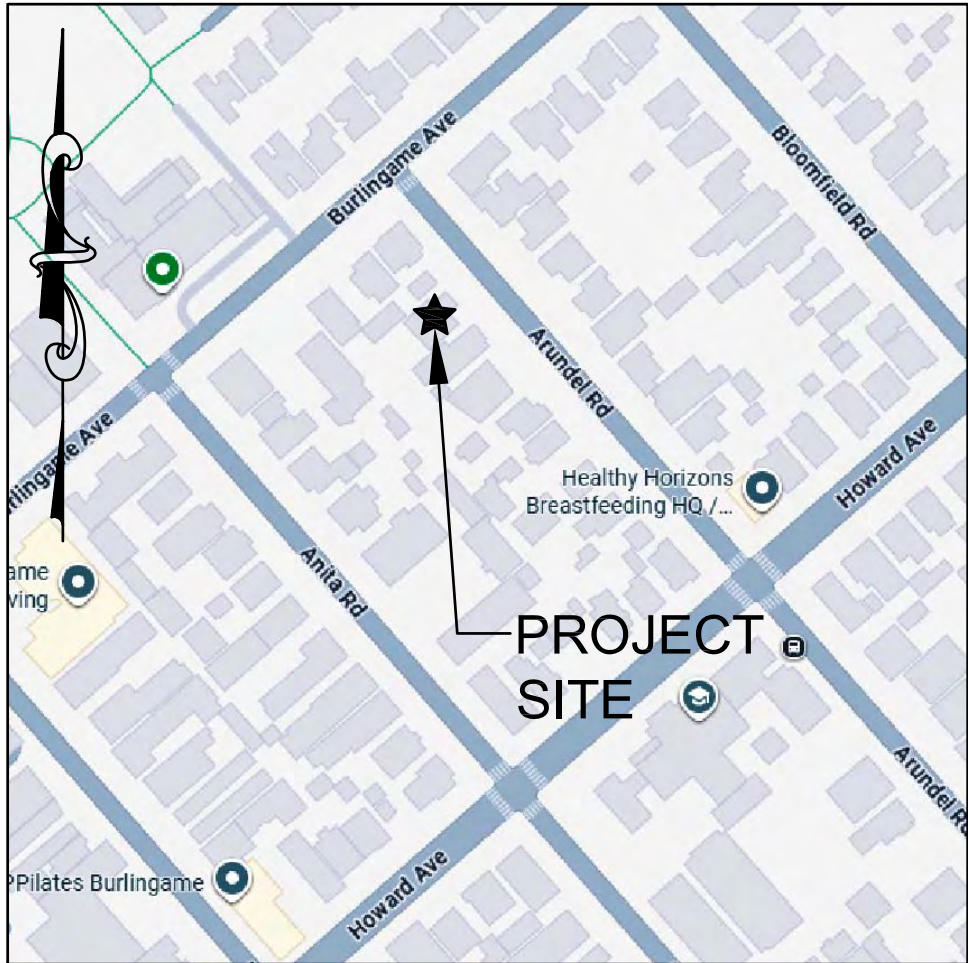
drawing title
revisions
11.13.25
Design Review Cycle 1
date: 08.21.25
scale: as noted
drawn by: EL
job: ECHTER
sheet

A1
of 16 sheets



VICINITY MAP

N.T.S.



LOCATION MAP

N.T.S.

ABBREVIATIONS

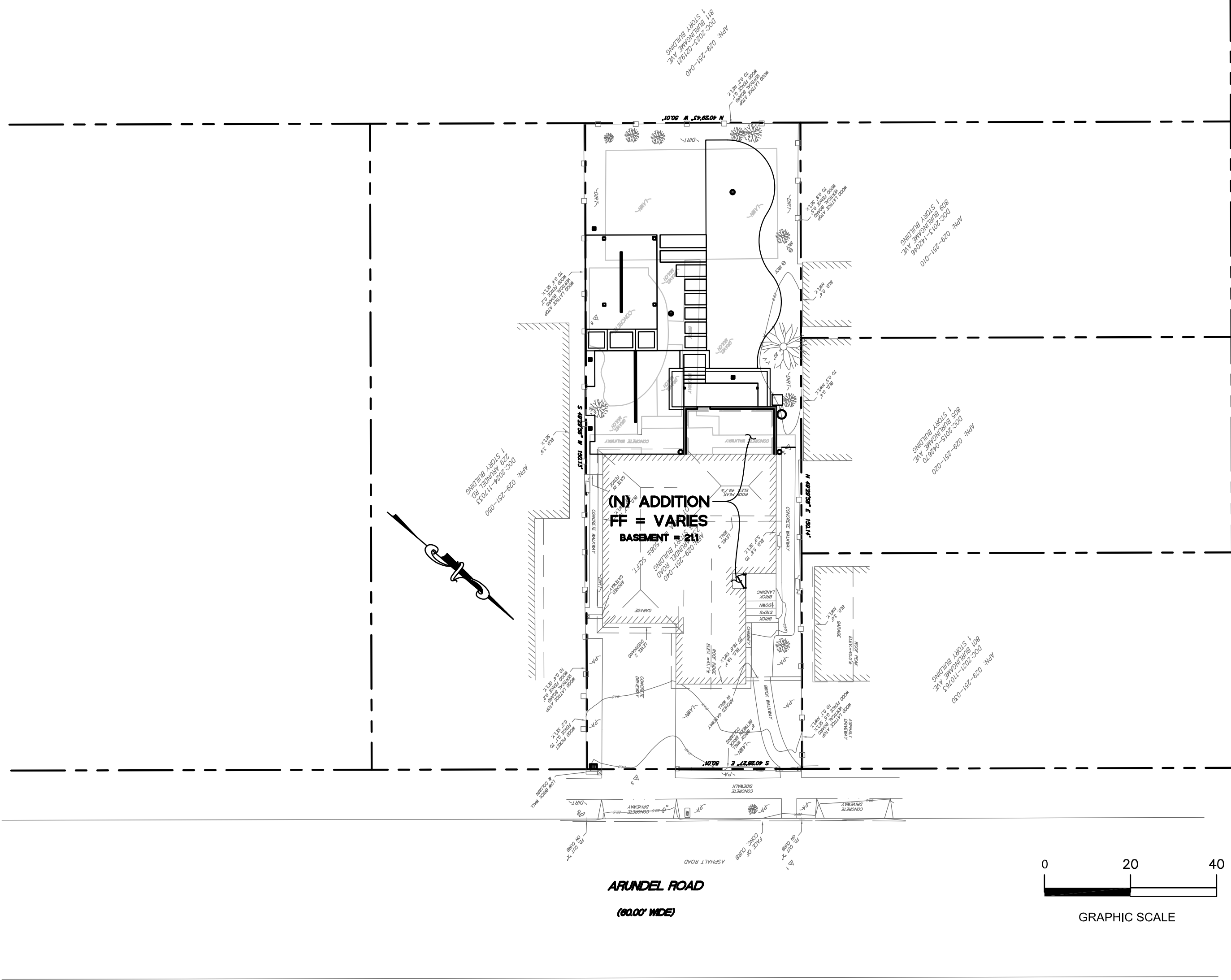
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AD	AREA DRAIN
ATD	ATRIUM DRAIN
BFP	BACK FLOW PREVENTION DEVICE
BW	BOTTOM OF WALL ELEVATION
CB	CATCH BASIN
CL	CENTER LINE
CS	CRAWL SPACE ELEVATION
CIP	CAST IRON PIPE
CONC	CONCRETE
DD	DECK DRAIN
DDCV	DOUBLE DETECTOR CHECK VALVE
DG	DECOMPOSED GRANITE
DIP	DUCTILE IRON PIPE
DS	ROOF DOWN SPOUT
DWY	DRIVEWAY
(E)	EXISTING
ELEC	ELECTRICAL
EM	ELECTRICAL METER
EP	EDGE OF PAVEMENT
FC	FACE OF CURB ELEVATION
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR ELEVATION
FG	FINISHED GROUND ELEVATION
FL	FLOW LINE ELEVATION
FM	FORCE MAIN LINE
FS	FINISHED SURFACE ELEVATION
FP	FINISHED PAVEMENT ELEVATION
FW	FIRE WATER LINE
GB	GRADE BREAK
GM	GAS METER
GR	GRATE ELEVATION
GV	GATE VALVE
HP	HIGH POINT
HW	HEATED WATER LINE
INV	PIPE INVERT ELEVATION
JT	JOINT TRENCH
JP	JOINT POLE
LD	LANDSCAPE DRAIN
LF	LINEAR FEET
LP	LOW POINT
(N)	NEW
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
RIM	RIM ELEVATION
S	SLOPE
SAP	SEE ARCHITECTURAL PLANS
SBD	STORM SUB DRAIN
SBDco	STORM SUB DRAIN CLEANOUT
SD	STORM DRAIN
SDco	STORM DRAIN CLEANOUT
SGR	SEE GEOTECHNICAL REPORT
SICB	SIDE INLET CATCH BASIN
SLP	SEE LANDSCAPE PLANS
SPP	SEE PLUMBING PLANS
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSP	SEE STRUCTURAL PLANS
TW	TOP OF WALL ELEVATION
TYP	TYPICAL
VD	PIPE VERTICAL DROP
W	DOMESTIC WATER LINE
WM	WATER METER

EARTHWORK QUANTITIES

GROSS QUANTITIES:		QUANTITY BREAKDOWN:	
CUT	50 C.Y.	BUILDINGS:	
FILL	35 C.Y.	CUT	40 C.Y.
TOTAL TO BE MOVED	85 C.Y.	FILL	0 C.Y.
BALANCE	15 C.Y. CUT (OFF-HAUL)	SITE WORK:	
		CUT	10 C.Y.
		FILL	35 C.Y.
NET QUANTITIES (BUILDING AND STRUCTURES OMITTED):			
CUT	10 C.Y.		
FILL	35 C.Y.		
TOTAL TO BE MOVED	45 C.Y.		
BALANCE	25 C.Y. FILL (IMPORT)		

EARTHWORK QUANTITIES SHOWN ABOVE ARE FOR PLANNING PURPOSES ONLY. CONTRACTOR SHALL CALCULATE THEIR OWN EARTHWORK QUANTITIES, AND USE THEIR CALCULATIONS FOR BIDDING AND COST ESTIMATING PURPOSES.

ECHTER REMODEL AND ADDITION
233 ARUNDEL ROAD
BURLINGAME, CA 94010



EXISTING	PROPOSED	LEGEND:
SS	SS	SANITARY SEWER
SD	SD	STORM DRAIN
		STORM SUB-DRAIN (PERFORATED PIPE)
		TRANSITION FROM PERF. PIPE TO SOLID PIPE
FM	FM	FORCE MAIN
FW	FW	FIRE WATER LINE
W	W	DOMESTIC WATER SERVICE
IRR	IRR	IRRIGATION SERVICE
G	G	NATURAL GAS
E	E	ELECTRIC
JT	JT	JOINT TRENCH
X	X	FENCE
		CLEAN OUT
		DOUBLE DETECTOR CHECK VALVE
		POST INDICATOR VALVE
		VALVE
		METER BOX
		STREET LIGHT
		AREA DRAIN
		CATCH BASIN
		FIRE HYDRANT
		FIRE DEPARTMENT CONNECTION
		BENCHMARK
		MANHOLE
		SIGN
		DOWNSPOUT
		SPLASH BLOCK
		CONTOURS
		PROPERTY LINE
		SETBACK
		GRASS SWALE
		RETAINING WALL/ BUILDING STEMWALL
		(E) TREE TO BE REMOVED

SHEET INDEX

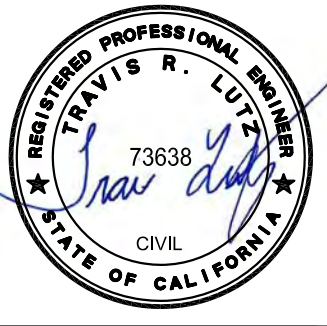
SHEET NO.	DESCRIPTION
C-0	TITLE SHEET
C-1	NOTES SHEET
C-2	GRADING AND UTILITY PLAN
C-3	EROSION AND SEDIMENT CONTROL PLAN
C-3.1	BEST MANAGEMENT PRACTICES (BMPs)
C-4	DETAIL SHEET

HYDROLOGY

(E) IMPERVIOUS AREA	(N) IMPERVIOUS AREA	REQUIRED STORAGE VOL.	STORAGE VOL. PROVIDED
3,692 SF	4,212 SF	19 CF	52 CF



DATE:	
REVISIONS:	



Date:	11/06/2025
Scale:	AS SHOWN
Design:	AJP
Check:	TRL
Drawing Number:	C-0
PEC Job No.	PEC 25-080

CAUTION:

1. THE LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS PLAN WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). CONTRACTOR SHALL VERIFY LOCATION AND DEPTH PRIOR TO ANY EXCAVATION OR IMPROVEMENT.
2. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION- PHONE (800) 642-2444. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AND SHALL CLEARLY MARK (AND THEN PRESERVE THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES THAT ARE IN OR NEAR THE AREA OF CONSTRUCTION PRIOR TO BEGINNING ANY WORK ON THIS SITE.
3. THESE DRAWINGS DO NOT ADDRESS CONTRACTOR MEANS AND METHODS OF CONSTRUCTION OR PROCESSES THAT MAY BE ASSOCIATED WITH ANY TOXIC SOILS IF FOUND ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL CITY AND COUNTY STANDARDS AND APPROPRIATE REGULATIONS IF TOXIC SOILS ARE ENCOUNTERED OR SUSPECTED OF BEING CONTAMINATED.

GENERAL SITE NOTES:

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITION AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
2. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
3. ALL WORK ON-SITE AND IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
4. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE OWNER, THE CONSULTING ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE CONSULTING ENGINEER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE JOB SITE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT UNAUTHORIZED PERSONS ON THE JOB SITE BY PROVIDING A CONSTRUCTION FENCE AROUND THE ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL STAGING AND STORAGE AREAS. CONSTRUCTION FENCE SHALL BE A MINIMUM OF 6" HIGH GALVANIZED CHAIN LINK WITH GREEN WINDSCREEN FABRIC ON THE OUTSIDE OF THE FENCE.
7. EXISTING PEDESTRIAN WALKWAYS, BIKE PATHS AND ACCESSIBLE PATHWAYS SHALL BE MAINTAINED, WHERE FEASIBLE, DURING CONSTRUCTION.
8. IF A CONFLICT ARISES BETWEEN THE SPECIFICATIONS AND THE PLAN NOTES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
9. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT IF ONE EXISTS.

EXISTING CONDITIONS:

1. EXISTING TOPOGRAPHIC SURVEYS PERFORMED BY FORESIGHT LAND SURVEYING ON MAY 31, 2024 (JOB #24043). GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.
2. CLIENT AGREES TO HOLD ENGINEER HARMLESS FROM ANY AND ALL OCCURRENCES RESULTING FROM THE INACCURACIES OF THE CLIENT SUPPLIED TOPOGRAPHIC AND/OR BOUNDARY SURVEY (PREPARED BY OTHERS).

SURVEYOR'S NOTES:

BASIS OF SURVEY:

GRANT DEED RECORDED NOVEMBER 24, 2020 AS DOC:2020-133472. OFFICIAL RECORDS OF SAN MATEO COUNTY.

BASIS OF ELEVATIONS:

FOUND CITY OF BURLINGAME BENCHMARK #32. ELEVATION = 23.043'. NGVD 1929.

TREE/PLANT PROTECTION NOTES:

1. PRIOR TO BEGINNING CONSTRUCTION ON SITE, CONTRACTOR SHALL IDENTIFY AND PROTECT EXISTING TREES AND PLANTS DESIGNATED AS TO REMAIN.
2. PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIAL. AS WELL AS FROM PUDDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE CITY'S ENGINEER/INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES DESIGNATED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES THAT DIE DUE TO LACK OF MAINTENANCE.

HORIZONTAL CONTROL NOTES:

1. ALL DIMENSIONS ON THE PLANS ARE IN FEET OR DECIMALS THEREOF UNLESS SPECIFICALLY CALLED OUT AS FEET AND INCHES.

PAVEMENT SECTION:

1. SEE STRUCTURAL DRAWINGS FOR BUILDING SLAB SECTIONS AND PAD PREPARATIONS.
2. SEE GEOTECHNICAL REPORT FOR ALL FLATWORK, VEHICULAR PAVEMENT SECTIONS, BASE AND COMPACTION REQUIREMENTS.
3. THE FINAL OR SURFACE LAYER OF ASPHALT CONCRETE SHALL NOT BE PLACED UNTIL ALL ON-SITE IMPROVEMENTS HAVE BEEN COMPLETED, INCLUDING ALL GRADING, AND ALL UNACCEPTABLE CONCRETE WORK HAS BEEN REMOVED AND REPLACED, UNLESS OTHERWISE APPROVED BY THE CITY/COUNTY ENGINEER AND/OR DEVELOPER'S CIVIL ENGINEER.
4. ALL PAVING SHALL BE IN CONFORMANCE WITH SECTION 26 "AGGREGATE BASE" AND SECTION 39 "ASPHALT CONCRETE" PER LATEST EDITION OF CALTRANS STANDARD SPECIFICATIONS.

DEMOLITION NOTES :

1. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL SHOW THE FINISHED GROUND SURFACE AT LEAST 5% UNLESS OTHERWISE NOTED ON THE PLANS. SLOPE LANDINGS 2% 1/4" PER FOOT AWAY FROM STRUCTURES UNLESS OTHERWISE NOTED ON PLANS. ANY AREAS ON THE SITE NOT CONFORMING TO THESE BASIC RULES DUE TO EXISTING CONDITIONS OR DISCREPANCIES IN THE DOCUMENTS ARE TO BE REPORTED TO THE CIVIL ENGINEER PRIOR TO PROCEEDING WITH PLACEMENT OF BASE ROCK OR FORMWORK FOR CURBS AND/OR FLATWORK.
2. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
3. CONTRACTOR IS TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, THE SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS AND REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
4. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCRoACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF WASTE MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION WORK.
7. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS.
8. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
9. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR HIS AGENTS OR ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE OWNER.
10. COORDINATE ALL UTILITY SHUT-DOWN/DISCONNECT LOCATIONS WITH APPROPRIATE DRAWINGS (ELECTRICAL, MECHANICAL, ARCHITECTURAL, ETC.). CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE OWNER. DO NOT INTERRUPT SERVICES TO ADJACENT OFF-SITE OWNERS. ANY EXISTING UNDERGROUND UTILITY LINES TO BE ABANDONED SHOULD BE REMOVED FROM WITHIN THE PROPOSED BUILDING ENVELOPE AND THEIR ENDS CAPPED OUTSIDE OF THE BUILDING ENVELOPE.
11. THIS PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK IN THE FIELD. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND CIVIL ENGINEER IN WRITING PRIOR TO START OF CONSTRUCTION WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT THE EARTHWORK QUANTITIES.
10. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE ALL EXISTING MANHOLES, CURB INLETS, CATCH BASINS, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS UNLESS NOTED OTHERWISE.

WATER SYSTEM NOTES:

1. USE DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6" BELOW THE SURFACE. TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION-BURIED WATER LINE BELOW".
2. ALL WATER SERVICE CONNECTIONS, INCLUDING BUT NOT LIMITED TO WATER VALVES TEMPORARY AND PERMANENT AIR RELEASE VALVES AND BLOW OFF VALVES, SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY/COUNTY OR APPLICABLE WATER DISTRICT STANDARDS.
3. CONTRACTOR SHALL SIZE AND INSTALL ALL NEW DESIGN BUILD DOMESTIC IRRIGATION AND FIRE WATER LINE(S) IN ACCORDANCE WITH THE LATEST EDITION OF THE UNIFORM/CALIFORNIA PLUMBING AND FIRE CODES. (ALL FIXTURE UNIT COUNTS SHALL BE REVIEWED AND APPROVED BY THE CITY'S BUILDING AND/OR WATER DEPARTMENT PRIOR TO CONSTRUCTION.)
4. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER.
5. PUBLIC AND PRIVATE WATER MAIN AND WATER SERVICE LINE4" THROUGH 12-INCH SHALL BE POLYVINYL CHLORIDE (PVC) AND SHALL MEET AWWA C900, RATED FOR 200 PSI CLASS PIPE WITH EPOXY COATED DUCTILE IRON FITTINGS AND FUSION EPOXY COATED GATE VALVES. ALL JOINTS SHALL BE FACTORY MANUFACTURED WITH BELL AND SPIGOT ENDS AND RUBBER GASKETS.
6. ALL WATER LINES 2" OR SMALLER SHALL BE TYPE K COPPER WITH SILVER BRAZED JOINTS. CONTRACTOR TO VERIFY PRESSURES FROM EXISTING LINES ARE ADEQUATE TO SERVICE BUILDINGS AS SPECIFIED BY THE PLUMBING PLANS.
7. CONNECTIONS TO THE EXISTING WATER MAIN SHALL BE APPROVED BY THE APPLICABLE WATER DISTRICT STANDARDS. THE CONTRACTOR SHALL PAY THE ACTUAL COSTS OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, PREPARE THE SITE, FURNISH ALL MATERIALS, INSTALL TAPPING TEE, VALVE AND ALL THRUST BLOCKS, BACKFILL, RESTORE THE SURFACE, AND CLEAN UP. THE APPLICABLE WATER DISTRICT STANDARDS WILL PROVIDE THE CONTRACTOR WITH A LIST OF APPROVED CONTRACTORS FOR MAKING WET TAPS.
8. ALL WATER VALVES SHALL BE CLUSTERED, UNLESS OTHERWISE DIRECTED BY THE CITY/COUNTY OR APPLICABLE WATER DISTRICT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND DELIVERING WATER SAMPLES FOR ANALYSIS TO A CITY/COUNTY/APPLICABLE WATER DISTRICT APPROVED LAB.
10. ALL ON AND OFF-SITE LANDSCAPE IRRIGATION SYSTEMS SHALL BE IN ACCORDANCE WITH THE LANDSCAPE ARCHITECTURAL PLANS AND SPECIFICATIONS AND SHALL BE CONNECTED TO THE EXISTING AND/OR NEW WATER SYSTEM AND METERED ACCORDINGLY.
11. INSTALL CITY/COUNTY/APPLICABLE WATER DISTRICT APPROVED PRESSURE REGULATOR AND REDUCED BACKFLOW PREVENTOR ON WATER LINE AT ENTRANCE TO BUILDING. REFERENCE PLUMBING PLANS FOR MORE DETAIL.

RECORD DRAWINGS:

1. THE CONTRACTOR SHALL KEEP UP-TO-DATE AND ACCURATE A COMPLETE RECORD SET OF PRINTS OF THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT FINAL LOCATION, ELEVATION, SIZES, MATERIALS, AND DESCRIPTION OF ALL WORK. RECORDS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PLAN DRAWINGS. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWING PRINTS SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL ACCEPTANCE .

SITE MAINTENANCE

1. UPON PROJECT COMPLETION THE OWNER SHALL BE SOLELY RESPONSIBLE TO ROUTINELY INSPECT AND MAINTAIN ALL ON-SITE STORM DRAIN FACILITIES. STORM DRAIN FACILITIES INCLUDE: ROOF GUTTERS AND DOWNSPOUTS, SURFACE DRAINS, DRYWELL, PUMP(S) AND DISCHARGE POINTS (BUBBLE UP BOX, CURB DRAIN). STORM DRAIN SYSTEM SHALL BE CLEANED AND/OR FLUSHED ON A BIANNUAL BASIS OR AS FOUND NECESSARY.

GRADING NOTES:

1. PROVIDE POSITIVE SURFACE DRAINAGE AWAY FROM ALL STRUCTURES BY SLOPING THE FINISHED GROUND SURFACE AT LEAST 5% UNLESS OTHERWISE NOTED ON THE PLANS. SLOPE LANDINGS 2% 1/4" PER FOOT AWAY FROM STRUCTURES UNLESS OTHERWISE NOTED ON PLANS. ANY AREAS ON THE SITE NOT CONFORMING TO THESE BASIC RULES DUE TO EXISTING CONDITIONS OR DISCREPANCIES IN THE DOCUMENTS ARE TO BE REPORTED TO THE CIVIL ENGINEER PRIOR TO PROCEEDING WITH PLACEMENT OF BASE ROCK OR FORMWORK FOR CURBS AND/OR FLATWORK.
2. CONTRACTOR SHALL DETERMINE EARTHWORK QUANTITIES BASED ON THE TOPOGRAPHIC SURVEY, THE GEOTECHNICAL INVESTIGATION AND THE PROPOSED SURFACE THICKNESS AND BASE THE BID ACCORDINGLY. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM IF A SEPARATE DEMOLITION CONTRACT HAS BEEN ISSUED TO TAKE THE SITE FROM THE WAY IT IS AT THE TIME OF THE BID TO THE CONDITIONS DESCRIBED IN THESE DOCUMENTS. BRING ANY DIFFERENCES BETWEEN THE STATE IN WHICH THE SITE IS DELIVERED TO THE CONTRACTOR AND THESE DOCUMENTS TO THE ATTENTION OF THE CIVIL ENGINEER.
3. ALL FILL SHALL BE COMPACTED PER THE GEOTECHNICAL REPORT AND THE CONTRACTOR SHALL COORDINATE AND COMPLY WITH THE GEOTECHNICAL ENGINEER TO TAKE THE APPROPRIATE TESTS TO VERIFY COMPACTION VALUES.
4. IMPORT SOILS SHOULD MEET THE REQUIREMENTS OF THE SOILS REPORT AND SPECIFICATIONS.
5. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF THE CIVIL ENGINEER.
6. SITE STRIPPINGS THAT CONTAIN ONLY ORGANIC MATERIAL (NO DEBRIS TRASH, BROKEN CONC. OR ROCKS GREATER THAN 1" IN DIAMETER) MAY BE USED IN LANDSCAPE AREAS, EXCEPT FOR AREAS IDENTIFIED AS IMPORT TOP SOIL BY THE LANDSCAPE DRAWINGS. EXCESS STRIPPINGS SHALL BE REMOVED FROM SITE.
7. ROUGH GRADING TO BE WITHIN 0.1' AND FINISH GRADES ARE TO BE WITHIN 0.05', HOWEVER CONTRACTOR SHALL NOT CONSTRUCT ANY IMPROVEMENTS THAT WILL CAUSE WATER TO POND OR NOT MEET REQUIREMENTS IN GRADING NOTE #1.
8. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. ALL GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITH A TOLERANCE OF ONE-TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTORS SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE CLIENT.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK IN THE FIELD. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND CIVIL ENGINEER IN WRITING PRIOR TO START OF CONSTRUCTION WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT THE EARTHWORK QUANTITIES.
10. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE ALL EXISTING MANHOLES, CURB INLETS, CATCH BASINS, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS UNLESS NOTED OTHERWISE.

STORM DRAIN NOTES:

1. USE DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6" BELOW THE SURFACE. TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION-BURIED STORM DRAIN LINE BELOW".
2. PRIVATE STORM DRAIN LINE 4-INCH THROUGH 12-INCH IN NON-TRAFFIC AREAS SHALL BE INSTALLED WITH A MINIMUM OF EIGHTEEN (18) INCHES OF COVER AND SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS OR LONG SWEEP ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
3. PRIVATE STORM DRAIN LINE 4-INCH THROUGH 12-INCH WITHIN VEHICULAR TRAFFIC AREAS SHALL BE INSTALLED WITH A MINIMUM OF EIGHTEEN (18) INCHES OF COVER AND SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 PIPE. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, OBTUSE ELBOWS OR LONG SWEEP ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
4. PAINT THE TOP OF THE CURBS ADJACENT TO EACH CATCH BASIN INSTALLED UNDER THIS WORK OR ADJACENT TO THIS SITE WITH THE WORDS "NO DUMPING". WORDING TO BE BLUE 4" HIGH LETTERS ON A PAINTED WHITE BACKGROUND.
5. ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS.
6. DRAINS SHOWN ON CIVIL PLANS ARE NOT INTENDED TO BE THE FINAL NUMBER AND LOCATION OF ALL DRAINS. PLACEMENT AND NUMBER OF LANDSCAPING DRAINS ARE HIGHLY DEPENDENT ON GROUND COVER TYPE AND PLANT MATERIAL. CONTRACTOR SHALL ADD ADDITIONAL AREA DRAINS AS NEEDED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT/OWNER.
7. WHERE FEASIBLE ALL DOWNSPOUTS SHALL DISCHARGE TO A SPLASHBLOCK OR IMPERVIOUS SURFACE AND FLOW TO LANDSCAPED FEATURES BEFORE ENTERING THE DRAINAGE SYSTEM. USE OF AREA DRAINS (RATHER THAN DIRECT CONNECTION TO DRAINAGE SYSTEM) TO COLLECT ROOF/SURFACE WATER IS STRONGLY ENCOURAGED IN CONFORMANCE WITH COUNTYWIDE C.3 REQUIREMENTS. OTHERWISE, DOWNSPOUTS SHALL BE CONNECTED TO THE STORM DRAIN SYSTEM WITH 4" PVC SDR 35 PIPE WHERE SHOWN ON PLANS. SEE ARCHITECTURE PLANS FOR EXACT LOCATION OF THE DOWN SPOUTS.
8. CONTRACTOR SHALL INSTALL RAIN GUTTER GUARDS OR WIRE MESH ON ALL ROOF GUTTERS TO REDUCE THE AMOUNT TO LEAVES AND DEBRIS FROM ENTERING THE STORM DRAIN SYSTEM.
9. INSTALL SEPARATE SUB-DRAIN SYSTEM BEHIND RETAINING WALLS PER GEOTECHNICAL REPORT AND CONNECT TO STORM DRAIN SYSTEM AT SUMP PUMP.

FIRE PROTECTION NOTES:

1. CONTRACTOR SHALL INSTALL THE DESIGN BUILD FIRE SERVICE LINE, BACKFLOW PREVENTOR, EQUIPMENT AND SUPPLIES IN ACCORDANCE WITH THE FIRE PROTECTION CONSULTANT'S PLANS, SPECIFICATIONS, LATEST EDITION OF THE UNIFORM/CALIFORNIA FIRE CODE AND CITY/TOWN STANDARDS.
2. THE UNDERGROUND FIRE PROTECTION SYSTEM INSTALLER SHALL PREPARE SHOP DRAWINGS SHOWING ALL INFORMATION REQUIRED BY THE LOCAL FIRE MARSHAL, INCLUDING ANGLES, THRUST BLOCKS, VALVES, FIRE HYDRANTS, PIV'S, FDC'S, BACKFLOW ASSEMBLIES, FLEXIBLE CONNECTIONS, VAULTS, ETC.
3. SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL FIRE MARSHAL, THE RATING AGENCY AND THE PROJECT MANAGER, ALLOWING TIME FOR REVIEW AND ACCEPTANCE, PRIOR TO START OF WORK.
4. THE UNDERGROUND FIRE PROTECTION SYSTEM INSTALLER SHALL OBTAIN ALL APPROVALS AND PERMITS PRIOR TO ORDERING MATERIALS, FABRICATING SYSTEMS OR ANY INSTALLATION.
5. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND EQUIPMENT LOCATIONS. RISER LOCATIONS ARE SHOWN ON ARCHITECTURAL AND PLUMBING DRAWINGS AND ARE TO BE COORDINATED WITH ACTUAL FIELD CONDITIONS.

GENERAL UTILITY SYSTEM NOTES :

1. UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AND EXTENT BASED UPON FIELD OBSERVATION ONLY. NO GUARANTEE IS MADE TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, LOCATION AND DEPTH OF ALL THE UTILITIES AND CROSSINGS TO ENSURE THEY ARE CORRECT AS SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND SHALL PROTECT ALL EXISTING UTILITIES FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS.
2. CONTRACTOR SHALL PREPARE AN ACCURATE COMPOSITE UTILITY PLAN THAT TAKES INTO ACCOUNT THE ACTUAL LOCATIONS OF EXISTING UTILITIES AS DETERMINED DURING THE DEMOLITION WORK, AND ALL PROPOSED UTILITIES SHOWN ON THE CIVIL, ELECTRICAL, JOINT TRENCH AND FIRE SPRINKLER DRAWINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES AND REQUESTING VERIFICATION OF SERVICE POINTS, FIELD VERIFICATION OF LOCATION, SIZE, DEPTH, ETC. FOR ALL THEIR FACILITIES AND TO COORDINATE WORK SCHEDULES.
4. CONTRACTOR SHALL REPLACE ALL COVERS AND GRATE LIDS FOR MANHOLES, VAULTS, CATCH BASINS, ETC., WITH VEHICULAR-RATED STRUCTURES IN ALL TRAFFIC ACCESSIBLE AREAS.
5. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT IN EXISTING PUBLIC STREET AREAS. CONTRACTOR SHALL BACKFILL TRENCHES, OR PLACE STEEL PLATING WITH ADEQUATE CUTBACK TO PREVENT SHIFTING OF STEEL PLATE AND/OR HOT-MIX ASPHALT REQUIRED TO PROTECT OPEN TRENCHES AT THE END OF THE WORKING DAY.
6. ALL TRENCHES SHALL BE BACK FILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
7. CLEAN OUTS, CATCH BASINS, MANHOLES, AREA DRAINS AND UTILITY VAULTS ARE TO BE ACCURATELY LOCATED BY THEIR RELATIONSHIP TO THE BUILDING, FLATWORK, ROOF DRAINS, AND/OR CURB LAYOUT, NOT BY THE LENGTH OF PIPE SPECIFIED IN THE DRAWINGS (WHICH IS APPROXIMATE). CONTRACTOR SHALL STAKE LOCATIONS OF ABOVE GROUND UTILITY EQUIPMENT (BACKFLOW PREVENTOR, TRANSFORMER, UTILITY METERS, ETC.) AND MEET WITH OWNER TO REVIEW LOCATION PRIOR TO INSTALLATION.
8. ALL UTILITY SYSTEMS (SANITARY SEWER, STORM DRAIN, WATER SYSTEM, ETC.) ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
9. CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT TO ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORKS UP STREAM, HE SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY. CONTRACTOR SHALL VERIFY LOCATION OF SANITARY SEWER LATERAL WITH OWNER PRIOR TO CONSTRUCTION.
10. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITIES 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 HORIZONTAL AND VERTICAL CLEARANCE. CONTRACTOR SHALL DISCREPANCIES TO THE ATTENTION OF THE CIVIL ENGINEER PRIOR TO INSTALLATION.
11. VERTICAL SEPARATION REQUIREMENTS:

A MINIMUM OF SIX (6) INCHES VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN CROSSING UTILITY PIPES, EXCEPT THAT THE MINIMUM VERTICAL CLEARANCE BETWEEN WATER AND SANITARY SEWER PIPELINES SHALL BE 12 INCHES AND ALL NEW WATER PIPES SHALL BE TYPICALLY INSTALLED TO CROSS ABOVE/OVER EXISTING SANITARY SEWER PIPELINES.

WHERE NEW WATER PIPELINES ARE REQUIRED TO CROSS UNDER EXISTING AND/OR NEW SANITARY SEWER PIPELINES, THE MINIMUM VERTICAL SEPARATION SHALL BE 12 INCHES. WATER LINE PIPE ENDS SHALL BE INSTALLED NO CLOSER THAN 10" MINIMUM HORIZONTAL DISTANCE FROM CENTERLINE OF UTILITY CROSSINGS, WHERE FEASIBLE.

HORIZONTAL SEPARATION REQUIREMENTS:

A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND ANY EXISTING UTILITIES SHALL BE 5' FEET, EXCEPT THAT THE MINIMUM HORIZONTAL SEPARATION FOR WATER AND SANITARY SEWER PIPELINES SHALL BE 10' MINIMUM, UNLESS OTHERWISE NOTED. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90° ANGLE AND WATER LINES SHALL BE A MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER LINES.

A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND JOINT TRENCH SHALL BE 5 FEET.

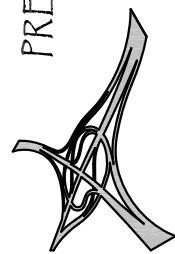
SANITARY SEWER NOTES:

1. USE DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6" BELOW THE SURFACE. TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION-BURIED SANITARY SEWER LINE BELOW".
2. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE CITY OR APPROPRIATE SANITARY SEWER DISTRICT.
3. PUBLIC AND PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH WITH A MINIMUM OF TWENTY FOUR (24) INCHES OF COVER SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH GLUED JOINTS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS or 45° ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
4. ALL LATERALS SHALL HAVE A CLEANOUT AT FACE OF BUILDING, AT THE PROPERTY LINE AND AS SHOWN ON PLANS PER THE CITY STANDARD OR APPROPRIATE SANITARY SEWER DISTRICT.
5. IF (E) SEWER LATERAL IS TO BE USED, CONTRACTOR SHALL CONDUCT WATER PRESSURE TEST AND A VIDEO INSPECTION ON THE ENTIRE SECTION OF EXISTING LATERAL FROM HOUSE TO SEWER MAIN. CONTRACTOR SHALL PERFORM ANY NECESSARY CLEANING AND/OR REPAIRS WITHIN THE LATERAL AND AT THE CONNECTION.
6. ABANDON EXISTING SEWER LATERAL AS FOLLOWS: PLUG WITH NON SHRINK GROUT A MINIMUM OF 5' AT BOTH THE UPSTREAM AND DOWNSTREAM SIDES OF ALL PIPE SEGMENTS TO BE ABANDONED. UPPER PIPE SECTIONS TO BE PLUGGED MAY REQUIRE INSTALLING SOMETHING IN THE PIPE TO PREVENT NON SHRINK GROUT FROM FLOWING FURTHER DOWN THE ABANDONED MAIN, IN LIEU OF FILLING THE ENTIRE PIPE SECTION WITH NON SHRINK GROUT.
7. IF THE LOWEST FINISHED FLOOR ELEVATION OF THE PROPOSED MAIN RESIDENCE WILL BE LESS THAN (1) FOOT HIGHER THAN THE RIM ELEVATION OF THE NEAREST UPSTREAM SANITARY SEWER MANHOLE, A BACKFLOW PREVENTION OR OVERFLOW DEVICE MUST BE INSTALLED IMMEDIATELY UPSTREAM OF THE REQUIRED CLEANOUT NEAR THE PROPERTY LINE TO PREVENT BACKFLOW OF SEWAGE INTO THE BUILDING/PROPERTY.

PUBLIC WORKS CONDITIONS:

1. ANY WORK IN THE CITY RIGHT-OF-WAY, SUCH AS STREET, SIDEWALK AREA, PUBLIC EASEMENTS, UTILITY EASEMENTS, OR USE OF THE RIGHT-OF-WAY SUCH AS PLACEMENT OF DEBRIS BOX OR CONSTRUCTION PARKING IS REQUIRED TO OBTAIN AN ENCRoACHMENT PERMIT PRIOR TO STARTING WORK. FOR REQUIREMENTS RELATED TO ISSUANCE OF AN ENCRoACHMENT PERMIT, VISIT: [HTTPS://WWW.BURLINGAME.ORG/900/ENCROACHMENT-PERMIT](https://www.burlingame.org/900/encroachment-permit). WORK WITHOUT THE BENEFIT OF AN ENCRoACHMENT PERMIT WILL BE CHARGED DOUBLE THE PERMIT FEE.
2. ALL WORK WITHIN CITY RIGHT-OF-WAY SHALL COMPLY WITH CITY STANDARDS AND DETAILS. STANDARD DETAILS ARE AVAILABLE AT: [HTTPS://WWW.BURLINGAME.ORG/960/CITY-STANDARD-DETAILS](https://www.burlingame.org/960/city-standard-details).
3. PUBLIC WORKS CONSTRUCTION HOURS IN THE RIGHT-OF-WAY ARE LIMITED TO WEEKDAYS AND NON-CITY HOLIDAYS BETWEEN 8:00 A.M. AND 5:00 P.M. THIS INCLUDES CONSTRUCTION HAULING. IF APPLICANT/CONTRACTOR WISHES TO WORK BEYOND THE NORMAL CONSTRUCTION HOURS, A WAIVER OF WORKING HOUR FORM MAY BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT TEN (10) WORKING DAYS IN ADVANCE FOR REVIEW AND APPROVAL BY PUBLIC WORKS AND BUILDING DEPARTMENT.
4. NO STRUCTURE SHALL BE BUILT INTO CITY'S RIGHT-OF-WAY. THIS INCLUDES ALL EXISTING AND OVERHANG PROJECTIONS, ON ARUNDEL ROAD, THIS MEASUREMENT IS 12.2 FEET MEASURED FROM FACE OF CURB.
5. SEWER BACKWATER PROTECTION CERTIFICATION IS REQUIRED FOR THE INSTALLATION OF ANY NEW SEWER FIXTURE PER ORDINANCE NO. 1710. THE SEWER BACKWATER PROTECTION CERTIFICATE IS REQUIRED PRIOR TO THE ISSUANCE OF BUILDING PERMIT AND THE BACKWATER DEVICE MUST BE PLACED ON PRIVATE PROPERTY.
6. FRONT LANDSCAPE (HARDSCAPE) IMPROVEMENTS THAT ARE NOT SHOWN ON THE PLANS, THIS WILL BE SUBJECT TO A PUBLIC WORKS INSPECTION PRIOR TO BUILDING PERMIT FINAL TO CONFIRM THAT NO ENCRoACHMENTS EXIST BEYOND THE PROPERTY LINE.
7. THE PROJECT SHALL COMPLY WITH THE CITY'S NPDES PERMIT REQUIREMENTS TO PREVENT STORM WATER POLLUTION. ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT APWA-AGC STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE CALIFORNIA STORMWATER QUALITY ASSOCIATION'S STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK, AND THE CITY OF BURLINGAME STORMWATER MANAGEMENT AND DISCHARGE CONTROL ORDINANCE (MUNICIPAL CODE CHAPTER 15.14). A COPY OF THE STORMWATER CONSTRUCTION BEST MANAGEMENT PRACTICES CAN BE FOUND AT [HTTP://WWW.FLOWSTOBAY.ORG/BROCHURES](http://www.flowstobay.org/brochures). UPON COMPLETION OF THE WORK, ALL STORMWATER PROTECTION MEASURES SHALL BE ENTIRELY REMOVED AND THE RIGHT-OF-WAY SHALL BE LEFT IN AS PRESENTABLE A CONDITION AS EXISTED BEFORE WORK STARTED. PLEASE BE AWARE THAT DURING WINTER MONTHS (OCTOBER 15TH TO APRIL 15TH) APPLICANT/CONTRACTOR ARE RESPONSIBLE TO REMOVE PROJECTS STORMWATER INLET PROTECTION DEVICE(S) (SANDBAGS/FILTERS/ETC.) IN THE PUBLIC RIGHT-OF-WAY TO PREVENT FLOODING DURING RAIN EVENTS, AND REINSTALL DEVICES ONCE THE RAIN EVENT ENDS. ALL PRIVATE PROPERTY STORMWATER PROTECTION MEASURES MUST BE PROTECTED AND REPAIRED AFTER EACH RAIN EVENT.
8. PER MUNICIPAL CODE SECTION 18.08.090, NO STORM WATER OR UNDERGROUND WATER DRAINING FROM ANY LOT, BUILDING, OR PAVED AREA SHALL BE ALLOWED TO DRAIN TO ADJACENT PROPERTIES NOR SHALL THIS WATER BE CONNECTED TO THE CITY'S SANITARY SEWER SYSTEM. REGARDLESS OF THE SLOPE OF THE SOURCE PROPERTY, SUCH WATER SHALL DRAIN TO EITHER ARTIFICIAL OR NATURAL STORM DRAINAGE FACILITIES BY GRAVITY OR PUMPING.
9. ALL WATER LINES CONNECTIONS TO CITY WATER MAINS FOR SERVICES OR FIRE LINE PROTECTION ARE TO BE INSTALLED PER CITY STANDARD PROCEDURES AND MATERIAL SPECIFICATIONS. CONTACT THE CITY'S WATER DEPARTMENT FOR CONNECTION FEES, DOMESTIC WATER SERVICES 2" AND OVER SHALL BE INSTALLED BY BUILDER.
10. IF REQUIRED, ALL FIRE SERVICES SHALL BE INSTALLED BY BUILDER. ALL UNDERGROUND FIRE SERVICE CONNECTIONS SHALL BE SUBMITTED AS SEPARATE UNDERGROUND FIRE SERVICE PERMIT FOR REVIEW AND APPROVAL.
11. PROJECTS THAT REQUIRE A PG&E PERMIT, OWNER/CONTRACTOR WORK ON BEHALF OF PG&E MAY NOT COMMENCE WITHOUT APPROVAL OF A PG&E (UTILITY) PERMIT FROM THE CITY OF BURLINGAME.
12. ALL DEBRIS/GARBAGE CONTAINERS LOCATION SHALL BE ON PROPERTY. NO WET GARBAGE FLUID SHALL ENTER PUBLIC RIGHT-OF-WAY OR THE STORM DRAIN SYSTEM.
13. PORTA POTTY'S MUST BE PLACED ON PRIVATE PROPERTY AND ARE NOT ALLOWED IN THE PUBLIC RIGHT-OF-WAY.
14. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO NOTIFY UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS BEFORE THE START OF ANY EXCAVATION WORK.

PRECISION ENGINEERING
AND
CONSTRUCTION, INC.



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1331B Old County Road
Belmont, CA 94002

DATE:			



Date:	11/06/2025
Scale:	NONE
Design:	AJP
Check:	TRL
Drawing Number:	C-1
PEC Job No.	PEC 25-080

NOTES SHEET
ECHTER REMODEL AND ADDITION
233 ARUNDEL ROAD
BURLINGAME, CA 94010

GRADING PLAN

The grading plan shows a proposed addition to an existing building at the intersection of Arundel Road and S 4029^{58'} E 150^{14'}. The main building footprint is labeled "(N) ADDITION FF = VARIES BASEMENT = 21'±". To the north are two "LD-FLAT" areas with RIM elevations of 24.8± and 24.9±, both with FS of 25.06. A "SLOT DRAIN" with RIM 24.9± is located between them. To the west is another "LD-FLAT" with RIM 24.8± and FS 25.06, along with a "BUBBLE BOX GR 23.9±". A "PLANTERS SAP" is also indicated. To the east is a "HEAT PUMP. SAP. SUMP PUMP GR 25.7±" and an "SBDCO RIM 25.0±". A central area contains "(7) 6.4\"/>

PAVEMENT LEGEND:

SEE GEOTECHNICAL REPORT IF ONE EXISTS FOR EXACT PAVEMENT SECTIONS, OVER-EXCAVATION AND COMPACTION REQUIREMENTS. SEE ARCHITECTURAL PLAN(S) FOR EXACT MATERIAL SELECTION.

PAVERS

CONCRETE

GRASS/LAWN

PAVER UNIT OVER A THIN LEVELING COURSE OF SAND OVER 6" MIN OF CLASS II AGGREGATE BASE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COLOR AND TYPE TO BE APPROVED BY THE OWNER PRIOR TO INSTALLATION. INSTALL EDGE CONSTRAINT SUCH AS A FLUSH CURB. SAP.

4" CONCRETE W/#4 BARS 12" O.C. - EACH WAY OVER 8" OF CALTRANS CLASS II AGGREGATE BASE ROCK.

SAP

UTILITY PLAN

APN: 029-251-010
809 BURLINGAME AVE
1 STORY BUILDING
DOC: 2013-142046

APN: 029-251-020
803 BURLINGAME AVE
1 STORY BUILDING
DOC: 2015-042670

APN: 029-251-030
801 BURLINGAME AVE
1 STORY BUILDING
DOC: 2021-110763

ARUNDEL ROAD
(60.00' WIDE)

STORMWATER SITE DESIGN MEASURE:
1. DIRECT RUNOFF FROM SIDEWALKS, WALKWAYS, AND/OR PATIOS ONTO VEGETATED AREAS WHERE FEASIBLE.

SEE SHEET C-O FOR
LEGEND AND SHEET
C-1 FOR NOTES

811
CALL BEFORE YOU DIG
UNDEGROUND SERVICES

0 10 20
GRAPHIC SCALE

13316 Old County Road
Belmont, CA 94002



C Job No.

PEC 25-080

:JAB 031107
:ZMIL 1076

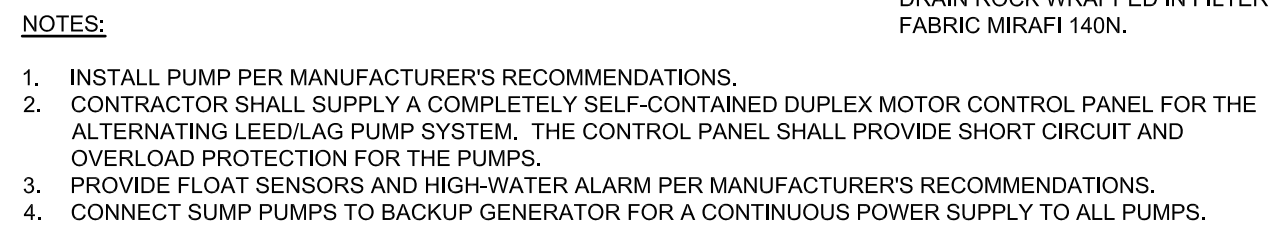
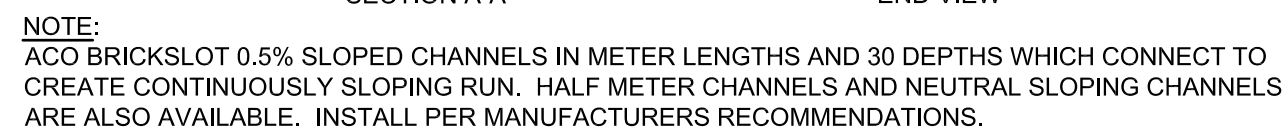


Diagram illustrating the cross-section of a storm drain installation. The components and dimensions are labeled as follows:

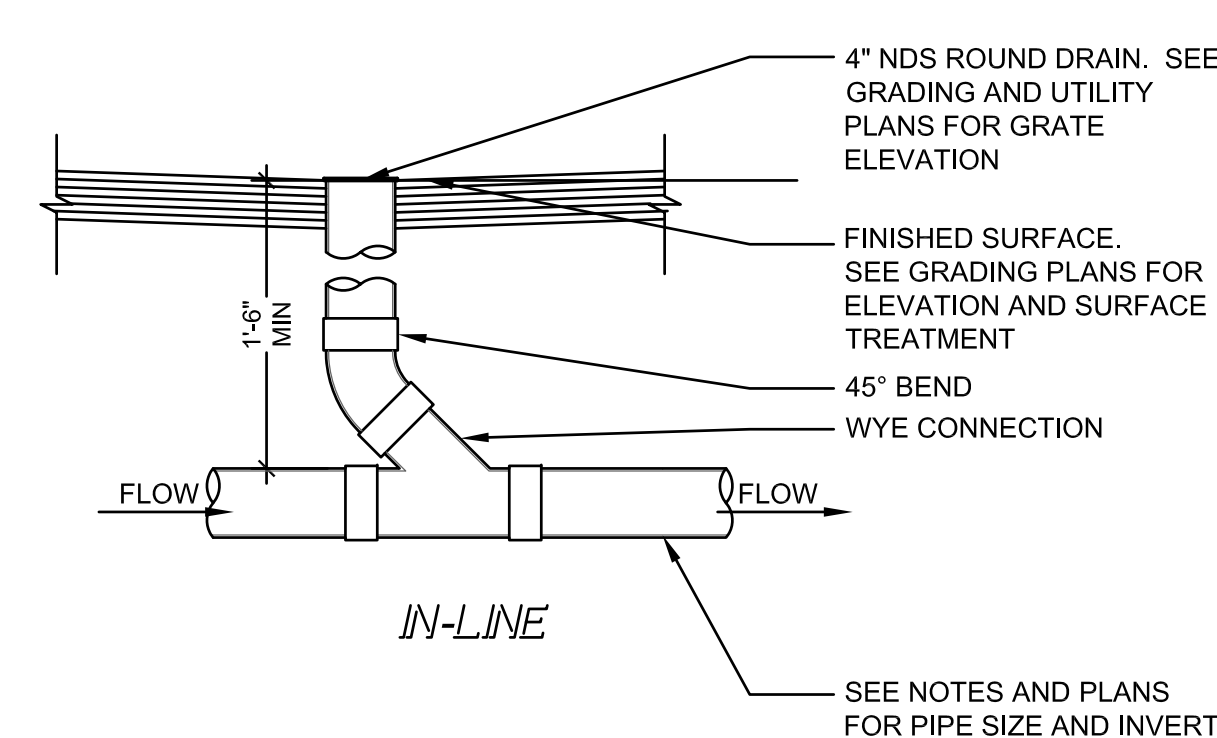
- CAST IRON GRATE. SEE PLANS FOR GRATE ELEVATION.** (Top grate)
- CHRISTY U-9 DRAIN BOX WITH EXTENSION(S) OR EQUIVALENT.** (Drain box structure)
- GRAVITY FLOW** (Indicated by an arrow pointing right)
- 4" STORM DRAIN CURB DRAIN** (The main drain pipe)
- 1" to 1-1/2" CRUSHED, WASHED DRAIN ROCK.** (The bedding layer below the pipe)
- 1'-0" MIN.** (Minimum depth of the bedding layer above the pipe)
- 1'-6" MIN.** (Minimum depth of the bedding layer below the pipe)



SQUARE OR CIRCULAR ROOF DOWN SPOUT
 DOWNSPOUT FILTER BY K&M SHEET METAL, AQUABARREL OR APPROVED EQUIVALENT.
 2" OR 3" (DEPENDING ON DS SIZE) DS TO 4" DIAMETER REDUCER. WYE CONNECTION CAN BE USED FOR CLEANOUT.
 FINISHED SURFACE (SEE PLANS)
 MATERIAL AS SPECIFIED ON PLANS
 CONNECT TO STORM DRAIN OR CATCH BASIN. SEE UTILITY PLAN FOR SIZE AND SLOPE.
 LONG SWEEP ELBOW
 6" MIN
 12" MIN

The diagram illustrates a cross-section of a basement wall and foundation system with the following components and labels:

- FINISHED GRADE**: The top surface of the exterior wall.
- NATIVE SOIL**: The soil adjacent to the exterior wall.
- 1'-6" MIN**: Minimum vertical distance from finished grade to the top of the drainage assembly.
- OVERLAP FILTER FABRIC 12" MIN**: Requirement for the filter fabric overlap.
- METAL TERMINATION STRIP (STRIP SHOULD BE CAULKED/SEALED)**: A strip used to terminate the filter fabric.
- MIRAFI MIRADRAIN 2000**: The primary drainage layer.
- WATERPROOFING MEMBRANE BY OTHERS.**: The waterproofing layer applied to the exterior wall.
- BASEMENT WALLS AND FOUNDATION SSP.**: The structural concrete wall and foundation.
- 3/4" TO 3/8" CLEAN CRUSHED ROCK**: A layer of rock below the primary drainage.
- TC MIRAFI 140N FILTER FABRIC OR EQUIVALENT.**: A secondary filter fabric layer.
- 4" MIN SGR**: Minimum thickness of the structural grade (SGR) below the foundation.
- 1"**: Thickness of the structural grade (SGR) directly under the foundation.
- 4" PERFORATED PIPE WITH OPENINGS PLACED DOWN UNDERLAIN BY 2" THICK LAYER OF CRUSHED DRAIN ROCK.**: A collection pipe for the drainage system.
- 1'-0"**: Horizontal distance from the exterior wall to the center of the perforated pipe.
- 2"**: Thickness of the crushed drain rock layer under the pipe.



24" BOLT DOWN COVER (OR CB GRATE). SEE GRADING AND UTILITY PLAN FOR RIM ELEVATION.

GRAVITY FLOW

START PUMP

4" STORM DRAIN

HI AND ON SWITCH SENSORS. MERCURY FLOAT.

INSTALL ZOELLER TRI-CHECK VALVE (BALL VALVE, CHECK VALVE AND UNION)

3" SCH 40 FORCED MAIN. CONNECT TO OVERFLOW DRAIN OR BUBBLE BOX. SEE UTILITY PLAN.

6'-0" MIN

1'-0"

3'-6" MIN

PUMP OFF

24" DIAMETER (28" O.D.) PERFORATED HDPE PIPE

LOW AND OFF SWITCH SENSORS. MERCURY FLOAT.

SUBMERSIBLE NON-CLOG PUMPS. RATED SINGLE PUMP MIN. 90 GPM WITH TOTAL DYNAMIC HEAD OF 60 FT. (SUGGESTED PUMPS: (2) ZOELLER MODELS #189's)

TC MIRAFI 140N FILTER FABRIC OR EQUIVALENT.

4'-0" x 4'-0" MIN

2" TO 1-1/2" CRUSHED, WASHED DRAIN ROCK.

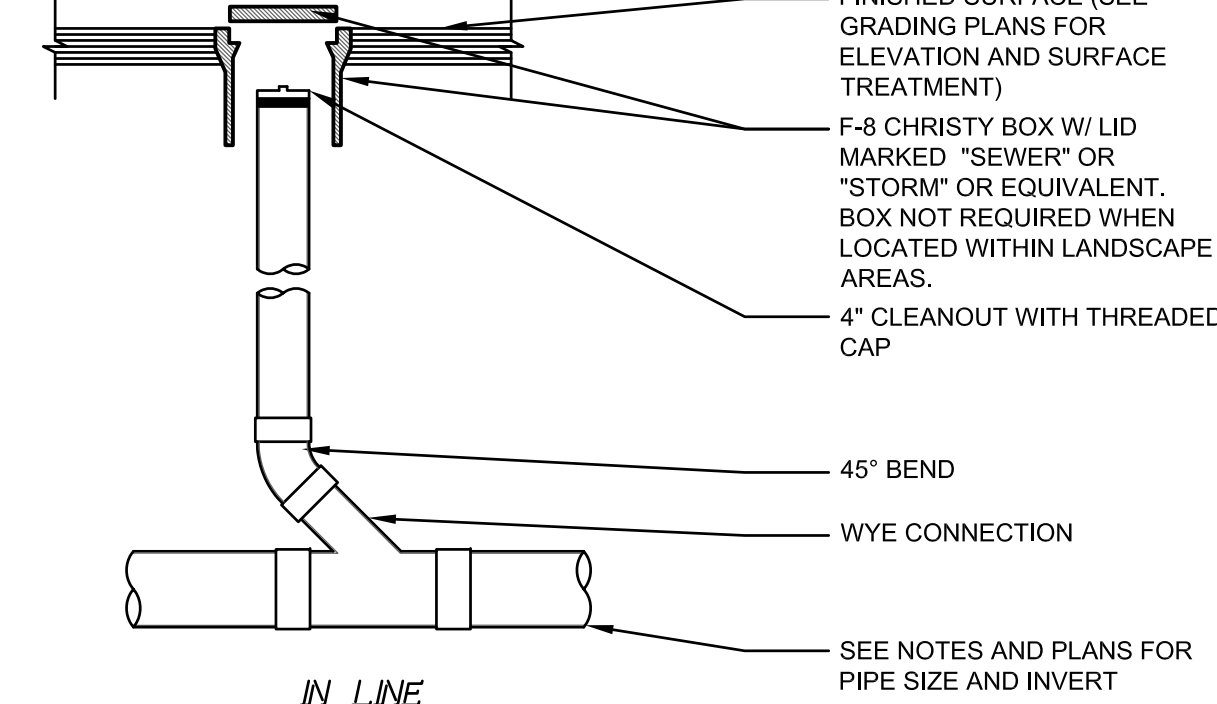
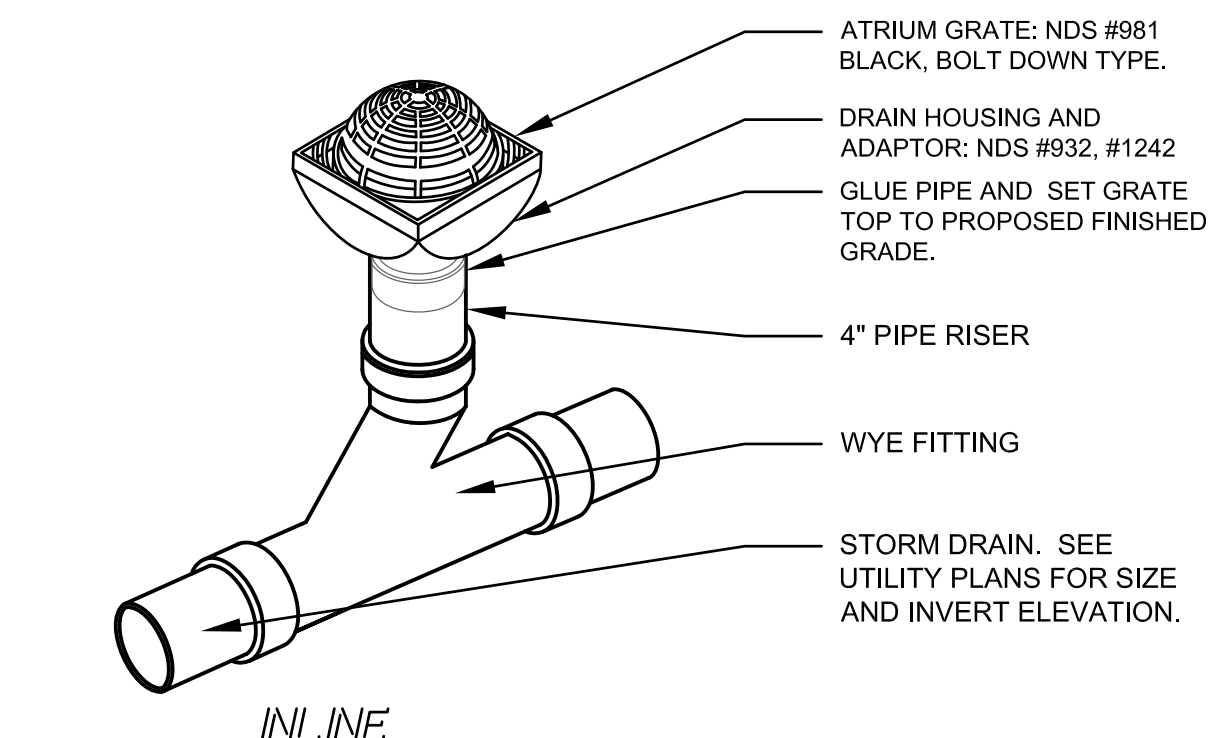


Diagram illustrating the components of a storm drain assembly:

- ATRIUM GRATE: 9" NDS #981 BLACK, BOLT DOWN TYPE.
- DRAIN HOUSING AND ADAPTOR: NDS #932, #1242
- GLUE PIPE AND SET GRATE TOP TO PROPOSED FINISHED GRADE.
- 4" PIPE RISER
- 90° ELBOW
- STORM DRAIN. SEE UTILITY PLANS FOR SIZE AND INVERT ELEVATION.

END OF LINE



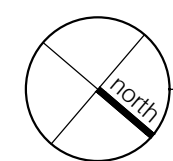
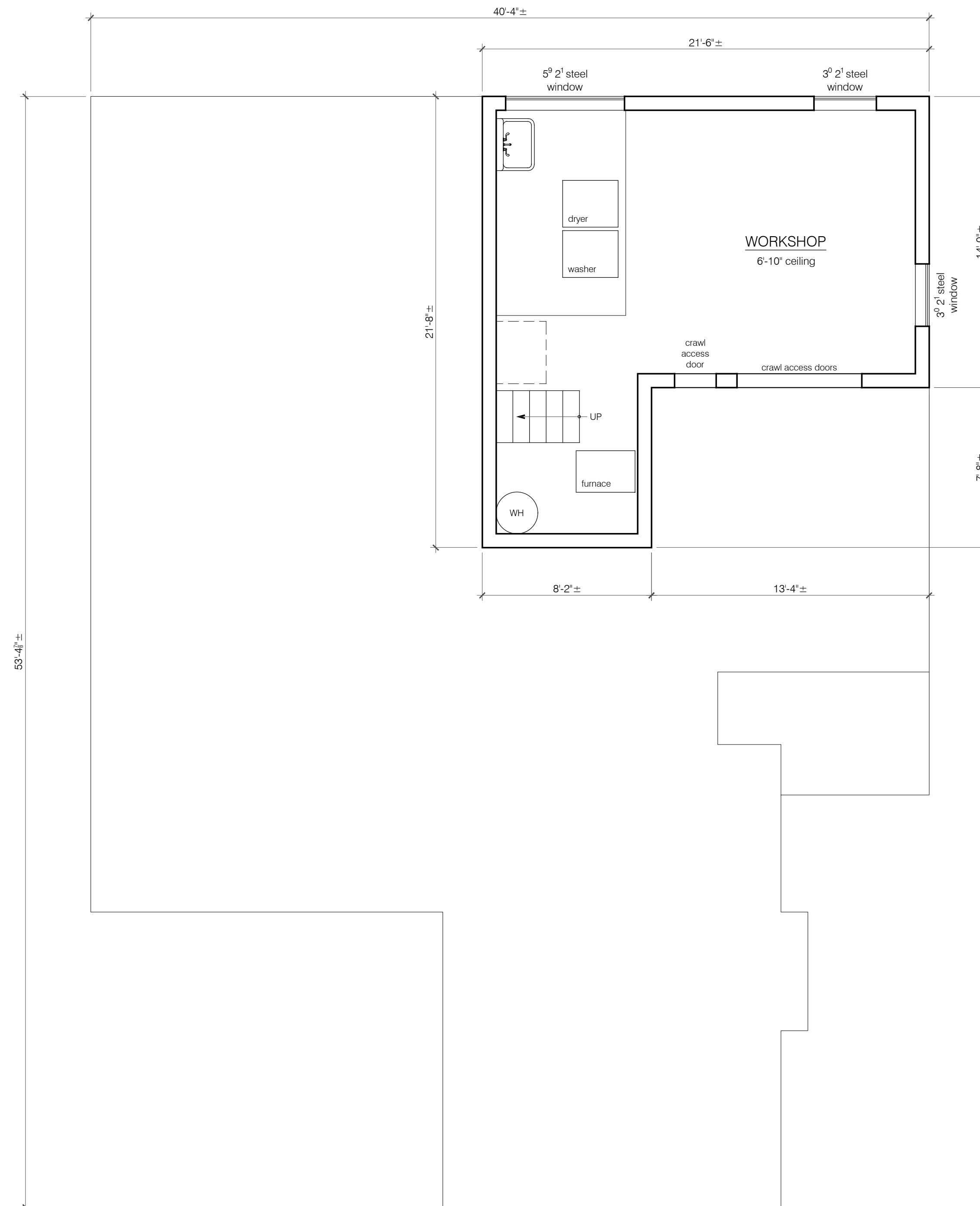
10. *Journal of the American Medical Association*, 2000; 284: 2689-2695.



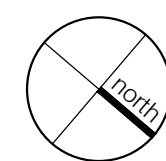
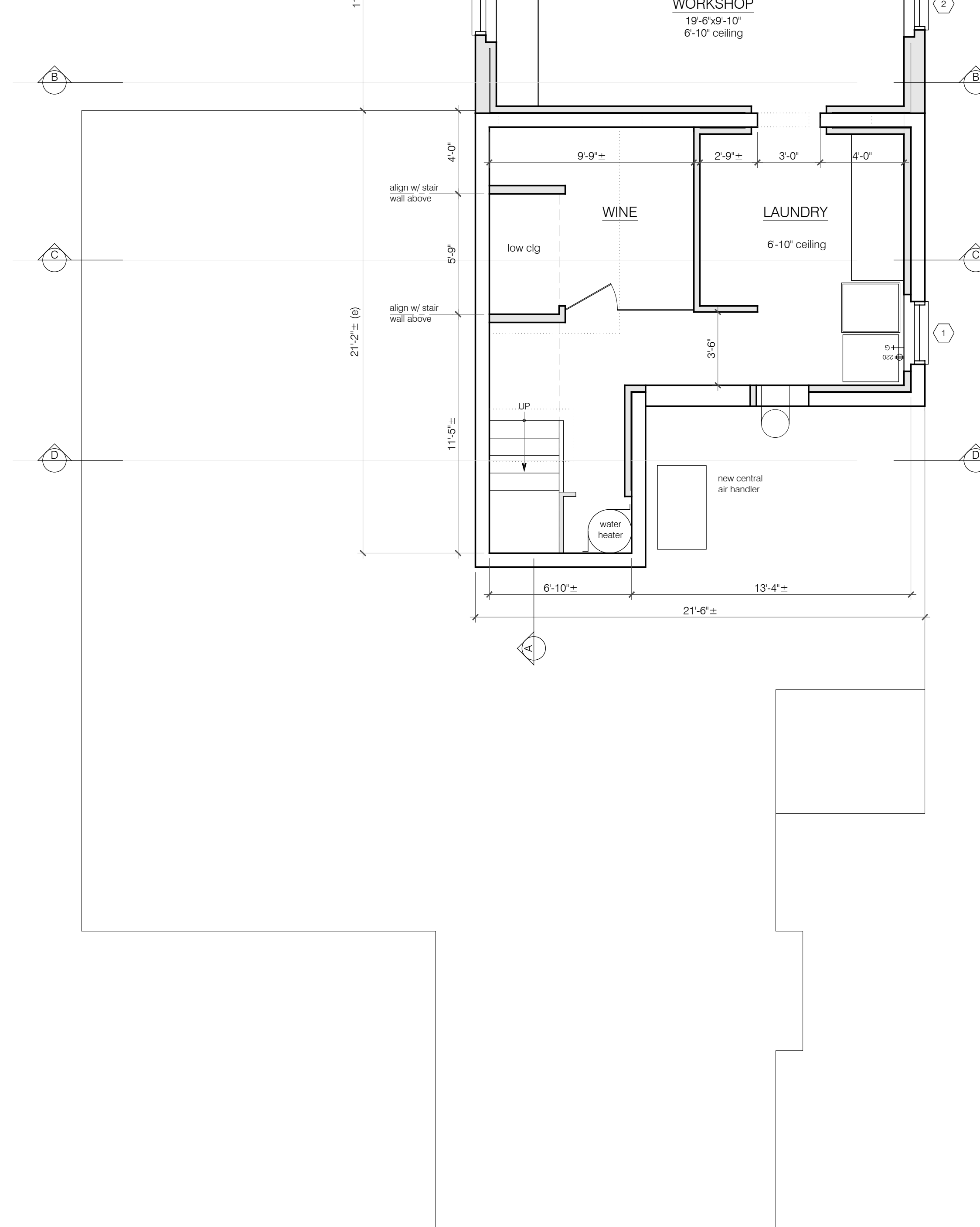
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233 ARUNDEL ROAD
BURLINGAME, CALIFORNIA

APN: 029-251-040

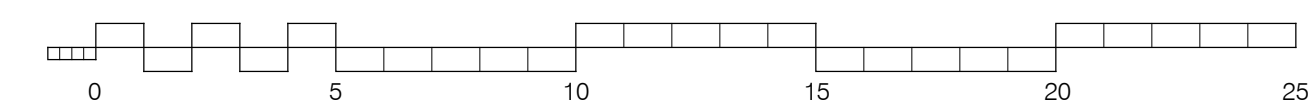
WINDOW SCHEDULE BASEMENT							
TAG	Room	Operation	Width (in)	Height (in)	Head Ht (in)	Sill Ht (in)	Comments
1	Laundry	awning	36	24			
2	Workshop	awning	30	24			
3	Workshop	awning	60	24			temp. gl.



EXISTING BASEMENT PLAN
1/4"=1'-0"



PROPOSED BASEMENT PLAN
1/4"=1'-0"



drawing title

revisions

△ 11.13.25

Design Review Cycle 1

date: 08.21.25

scale: as noted

drawn by: EL

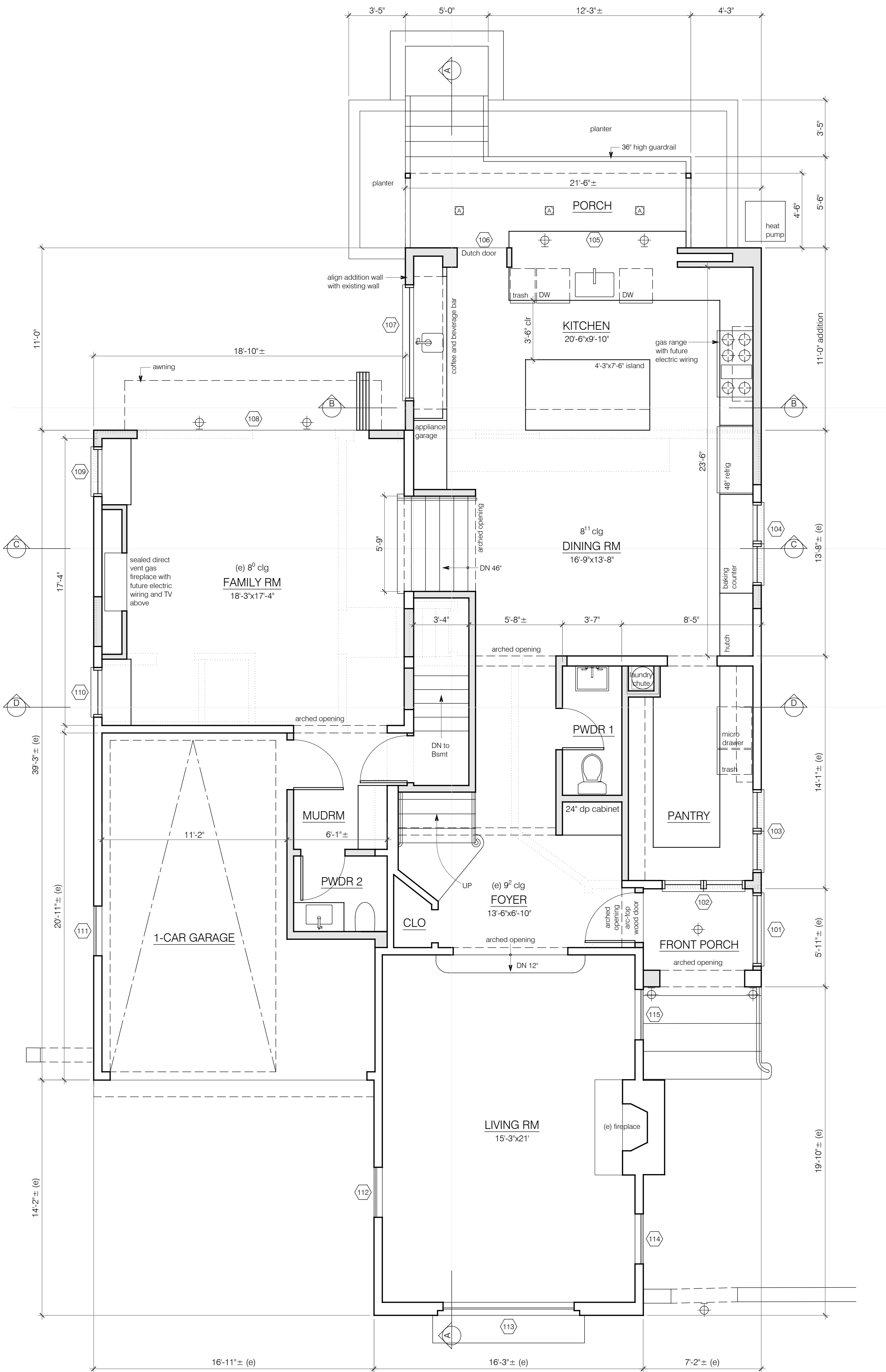
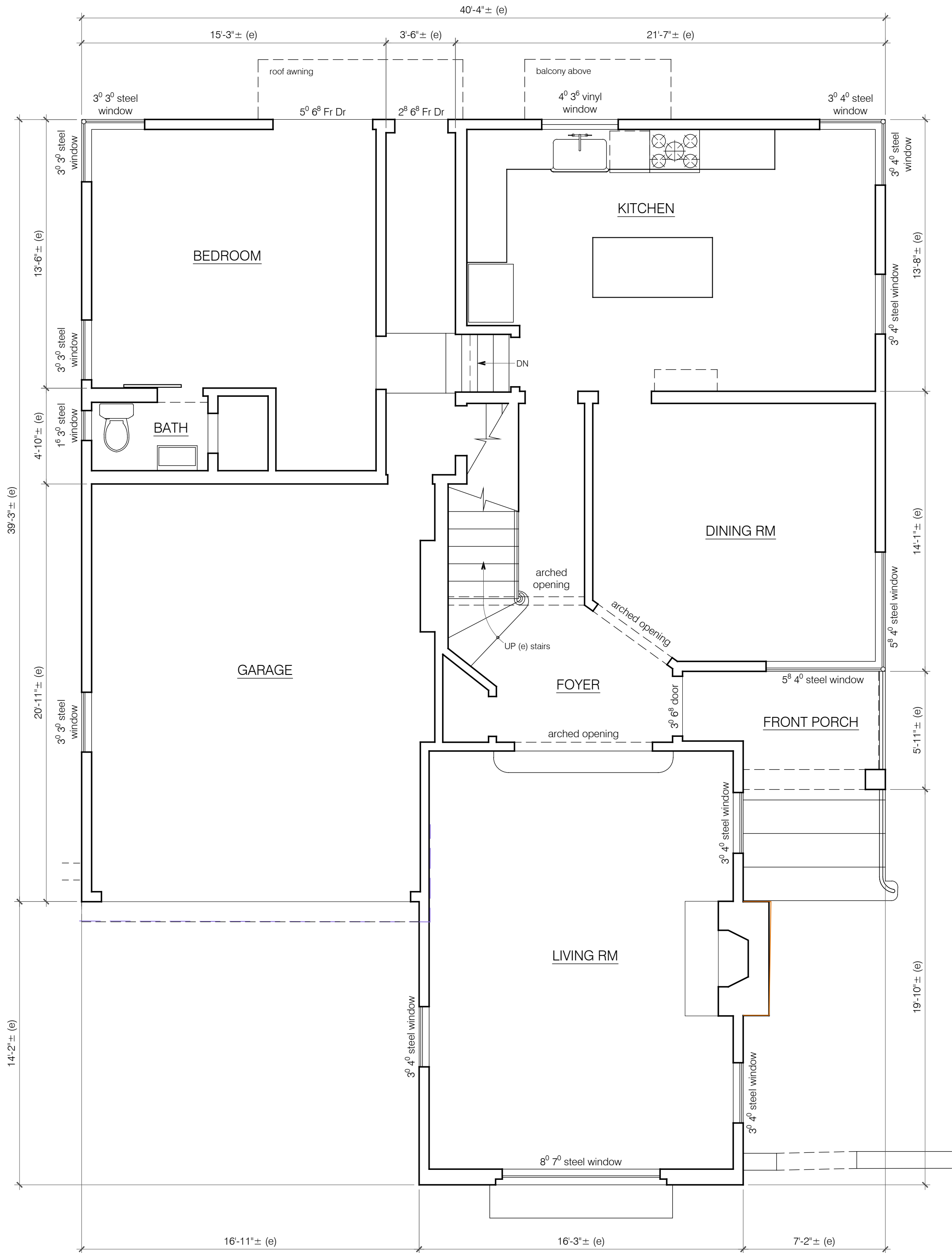
job: ECHTER

sheet

A2

of 16 sheets

WINDOW SCHEDULE							
TAG	Room	Operation	Width (in)	Height (in)	Head Ht (in)	Sill Ht (in)	Comments
FIRST FLOOR							
101	Front Porch	fixed	54	48	80	32	temp. gl.
102	Pantry	fxd-csmt	(2) 30	42	80	38	
103	Pantry	csmt-csmt	(2) 30	42	80	38	
104	Kitchen	csmt-csmt	(2) 30	54	96	42	
105	Kitchen	sliding pocket	120	60	96	36	temp. gl.
106	Kitchen	Dutch dr w/ lite	(2) 36	96	96	0	temp. gl.
107	Kitchen	csmt-csmt	(2) 30	54	96	42	temp. gl.
108	Family Rm	folding doors	168	84	84	0	temp. gl.
109	Family Rm	casement	36	60	84	24	
110	Family Rm	casement	36	60	84	24	
111	Garage	csmt-csmt	36	36			existing to remain
112	Living Rm	csmt-csmt	36	50			existing to remain
113	Living Rm	csmt-fxd-csmt	96	84			existing to remain
114	Living Rm	csmt-csmt	36	50			existing to remain
115	Living Rm	csmt-csmt	36	50			existing to remain



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ECHTER REMODEL AND ADDITION
233 ARUNDEL ROAD
BURLINGAME, CALIFORNIA

APN: 029-251-040

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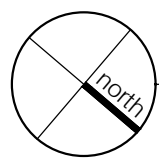
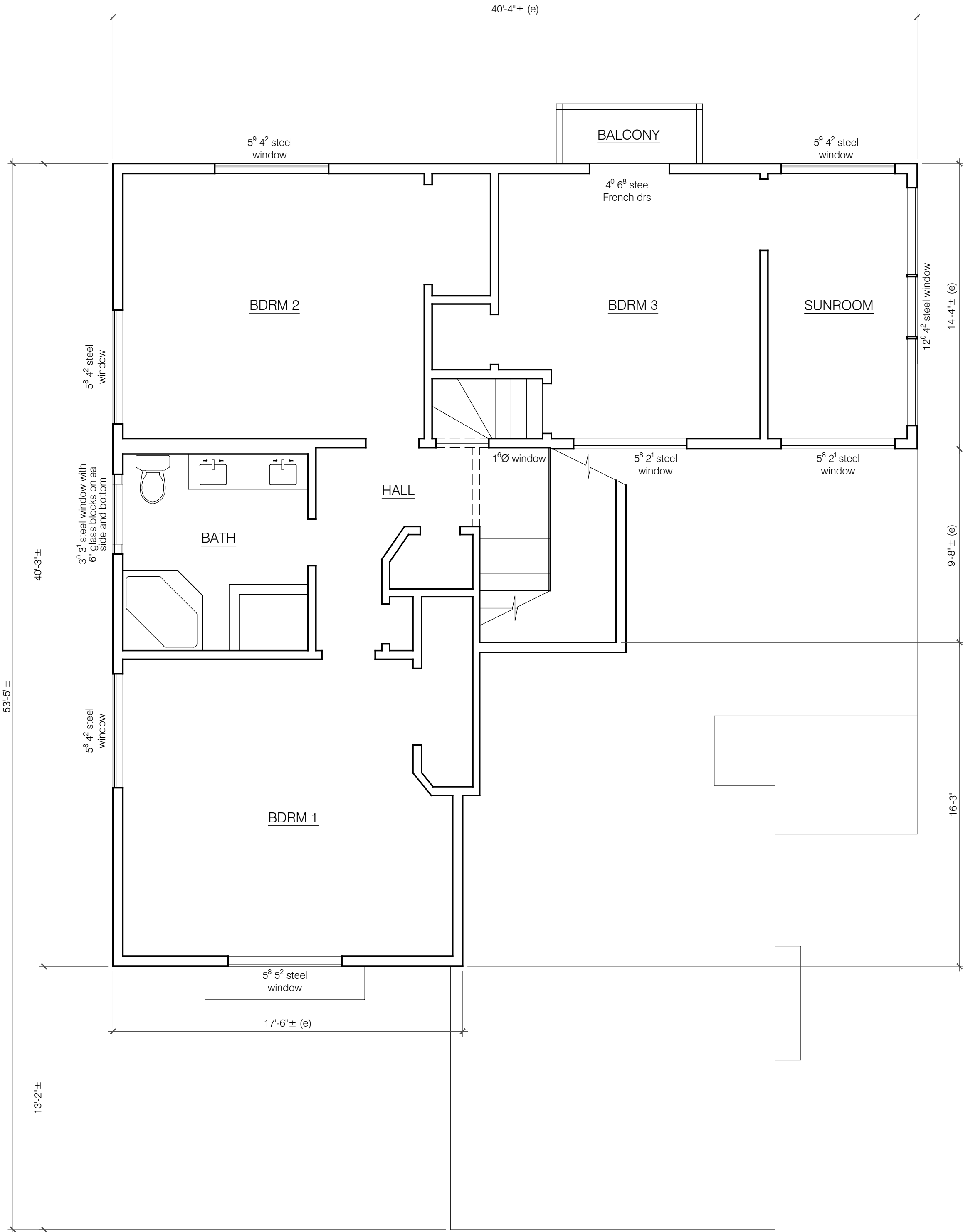
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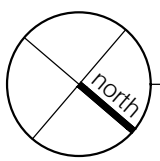
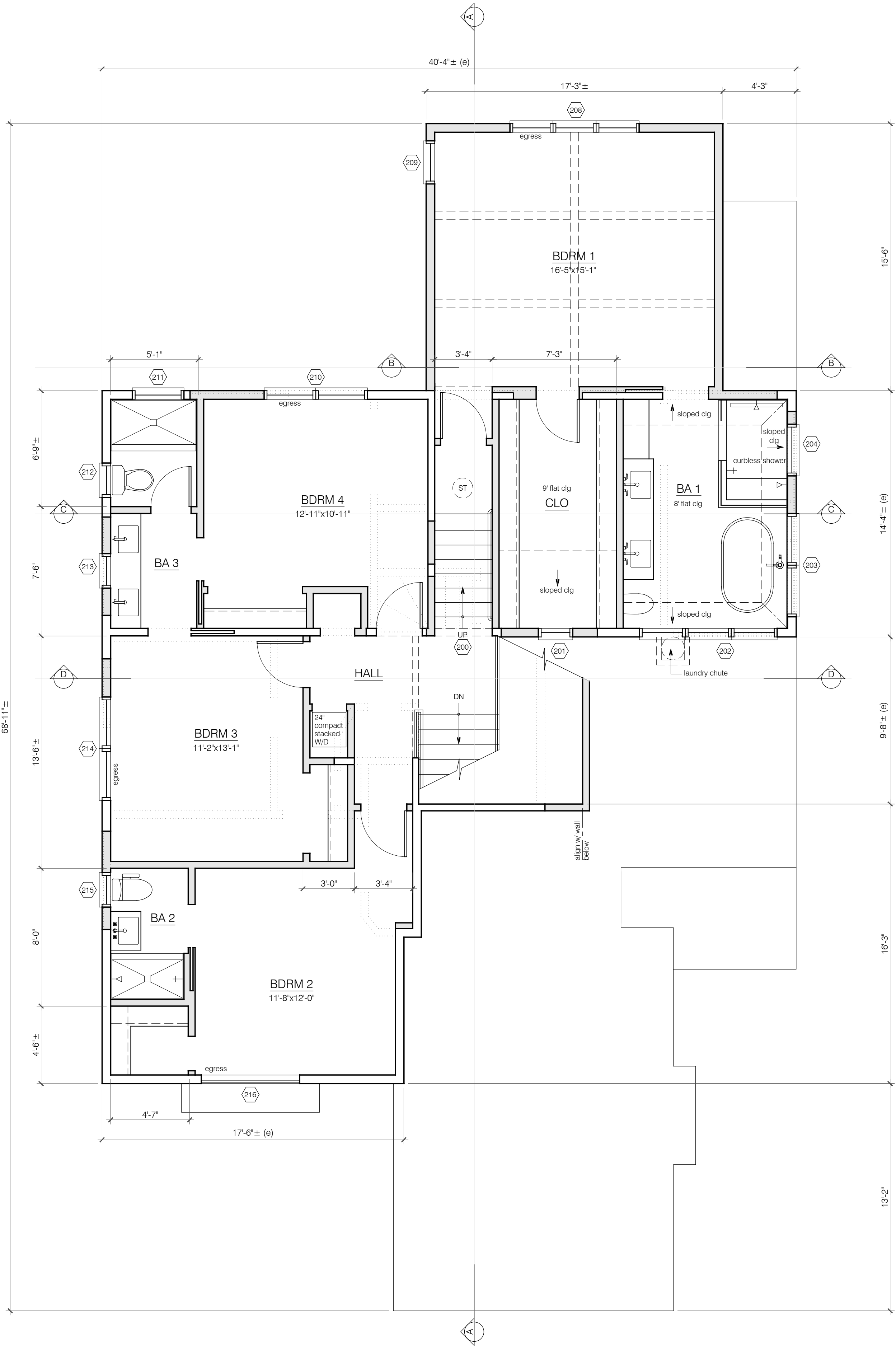
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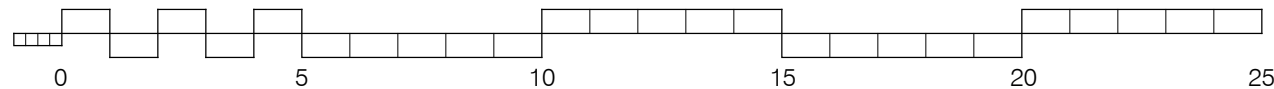
WINDOW SCHEDULE							
TAG	Room	Operation	Width (in)	Height (in)	Head Ht (in)	Sill Ht (in)	Comments
SECOND FLOOR							
200	Upper Stairs	fxd	24	24	80	56	
201	Bed 1 Clo	csmt	24	24	80	56	
202	Bath 1	awn-fxd-awn	(3) 32	24	80	56	temp. gl.
203	Bath 1	csmt-csmt	(2) 36	54	80	26	temp. gl.
204	Bath 1	awning	36	24	80	56	temp. gl., fiberglass
205	not used						
206	not used						
207	not used						
208	Bedroom 1	csmt-fxd-csmt	(3) 30	66	96	30	egress
209	Bedroom 1	casement	30	54	84	30	
210	Bedroom 4	csmt-csmt	24	48	80	32	egress
211	Bath 3	awning	36	24	80	56	temp. gl., fiberglass
212	Bath 3	casement	24	36	80	44	temp. gl.
213	Bath 3	casement	24	36	80	44	temp. gl.
214	Bedroom 3	csmt-csmt	(2) 30	48	80	32	egress
215	Bath 2	casement	24	36	80	44	temp. gl.
216	Bedroom 2	csmt-fxd-csmt	68	62	80	18	egress



EXISTING SECOND FLOOR PLAN
1/4" = 1'-0"



PROPOSED SECOND FLOOR PLAN
1/4" = 1'-0"



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ECHTER REMODEL AND ADDITION
233 ARUNDEL ROAD
BURLINGAME, CALIFORNIA

APN: 029-251-040

drawing title

revisions

11.13.25

Design Review Cycle 1

date: 08.21.25

scale: as noted

drawn by: EL

job: ECHTER

sheet

A4

of 16 sheets



ECHTER REMODEL AND ADDITION
233 ARUNDEL ROAD
BURLINGAME, CALIFORNIA

APN: 029-251-040

drawing title

revisions

11.13.25

Design Review Cycle 1

date: 08.21.25

scale: as noted

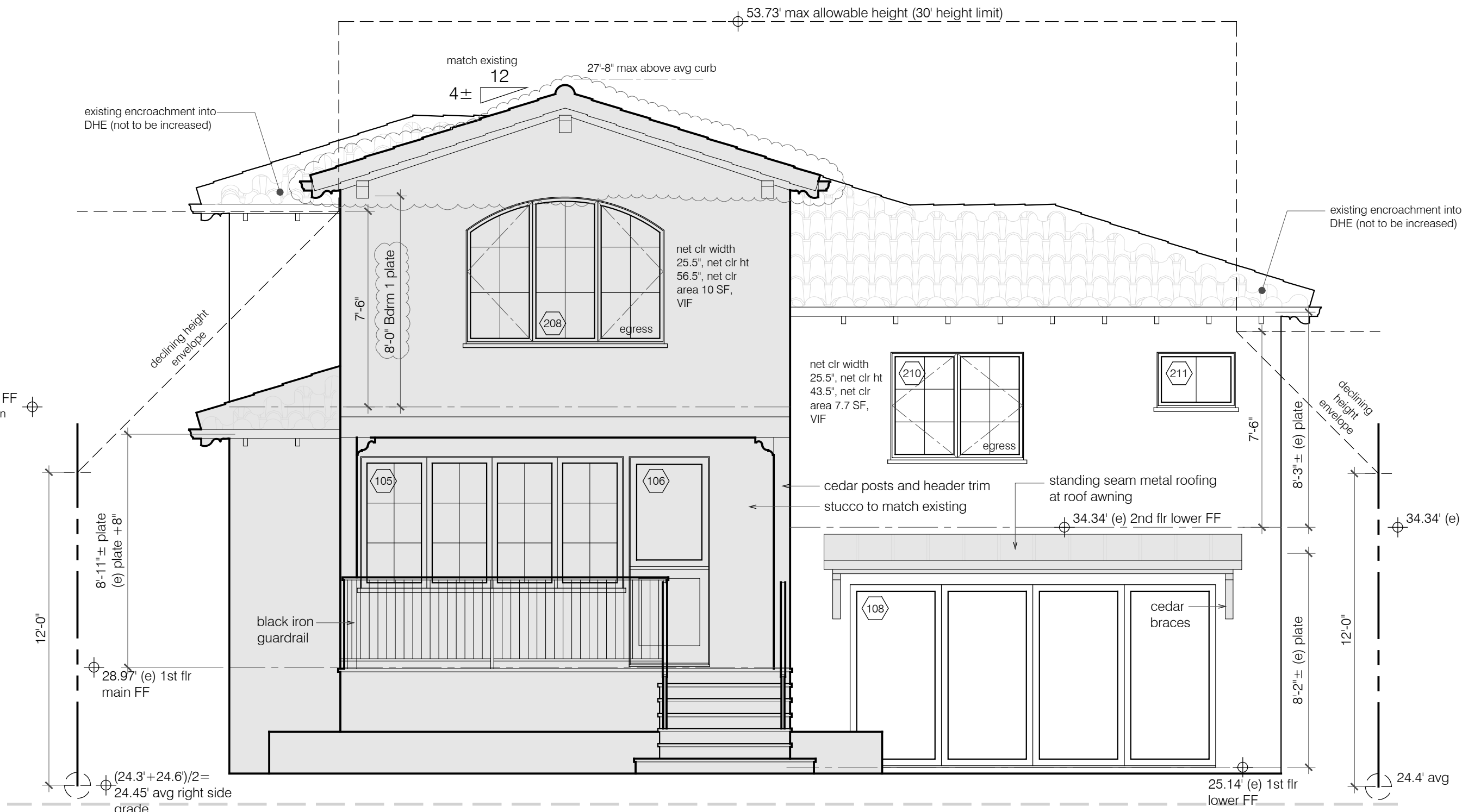
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job: ECHTER

sheet

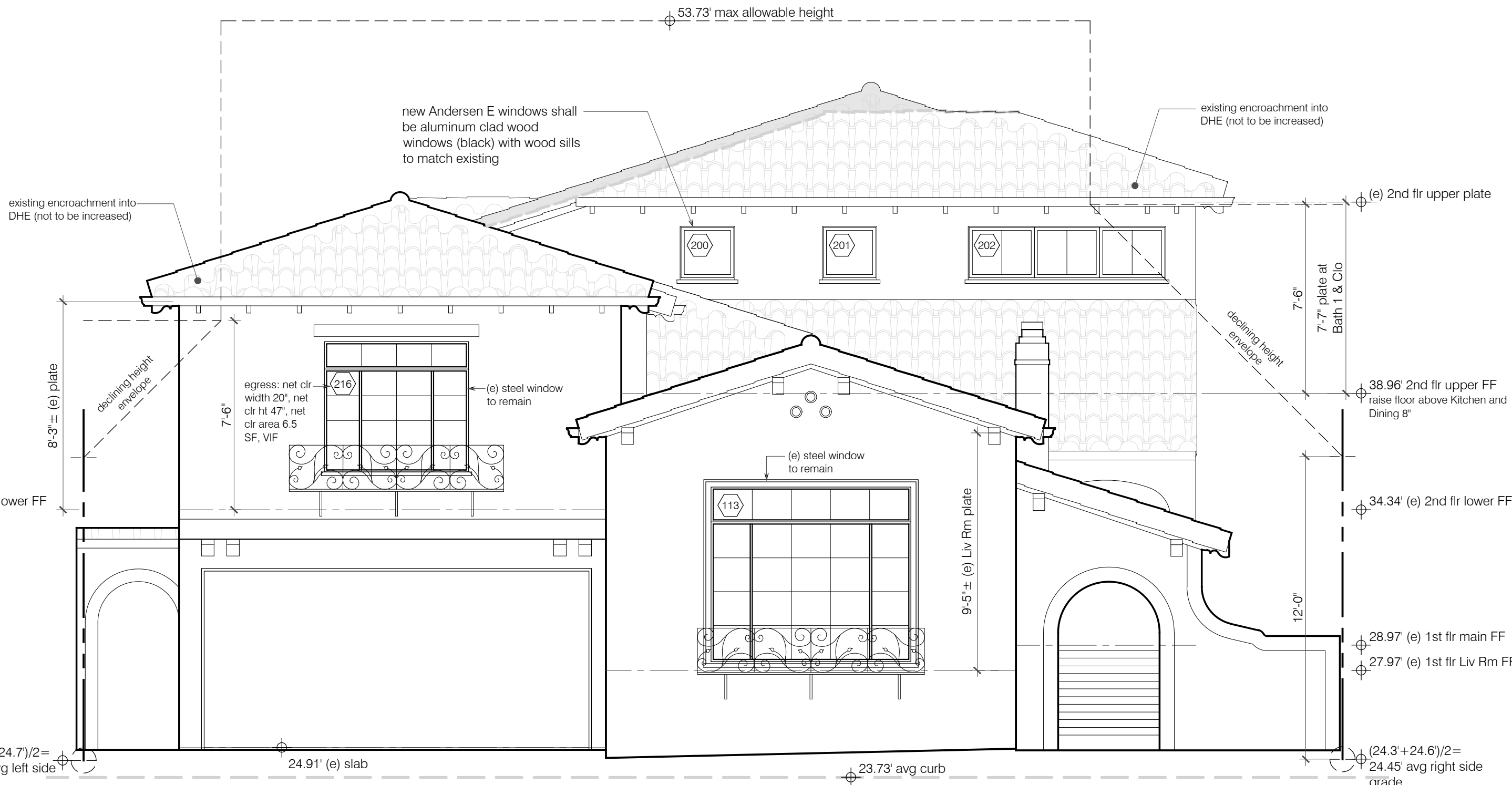
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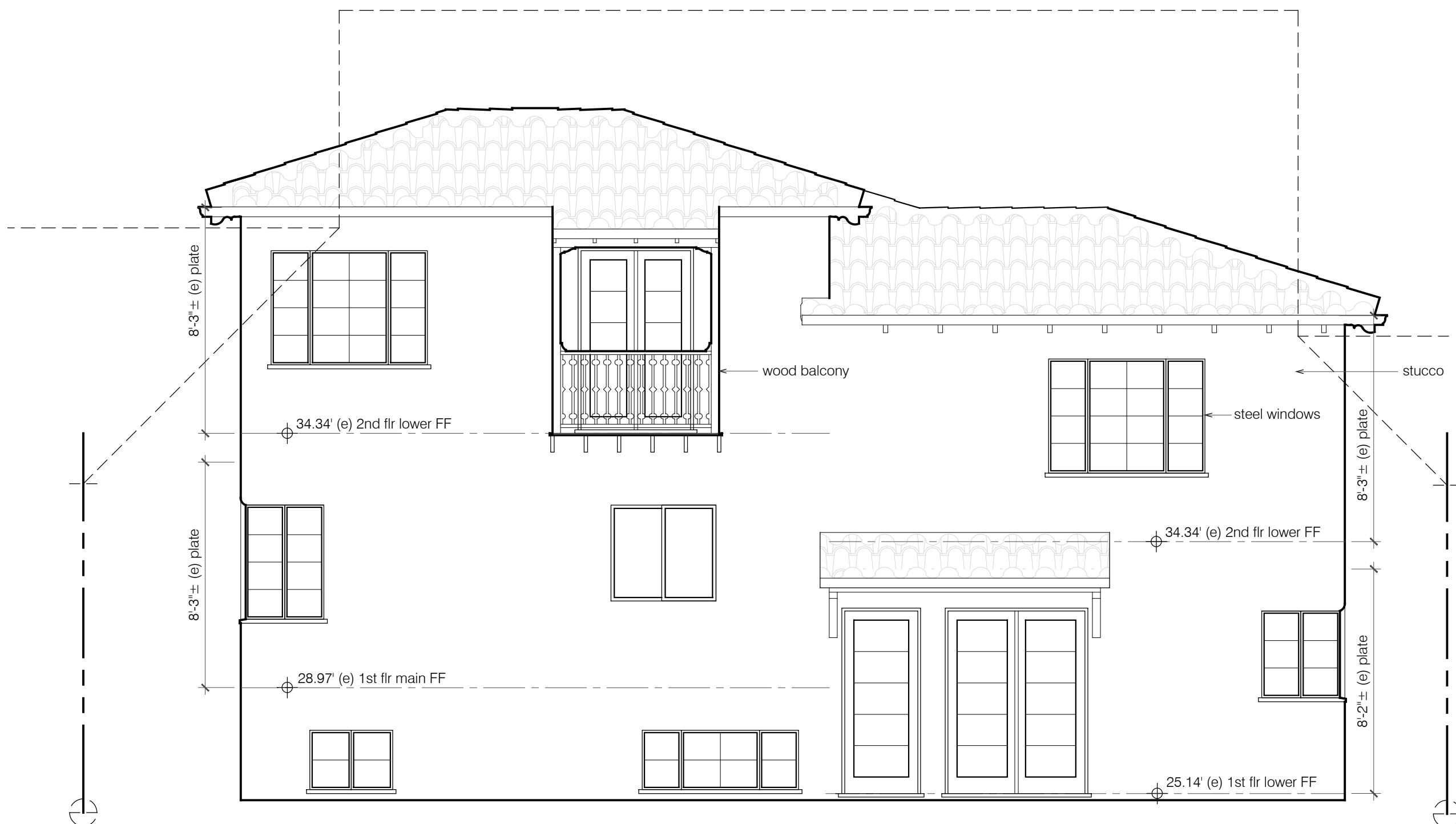
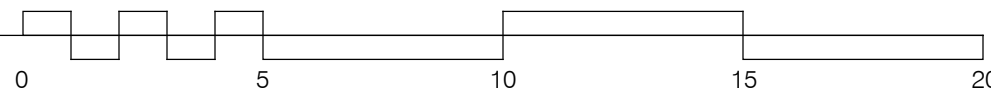
PROPOSED REAR (WEST) ELEVATION

1/4"=1'-0"



PROPOSED FRONT (EAST) ELEVATION

1/4"=1'-0"



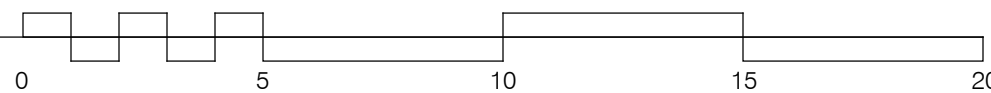
EXISTING REAR (WEST) ELEVATION

1/4"=1'-0"



EXISTING FRONT (EAST) ELEVATION

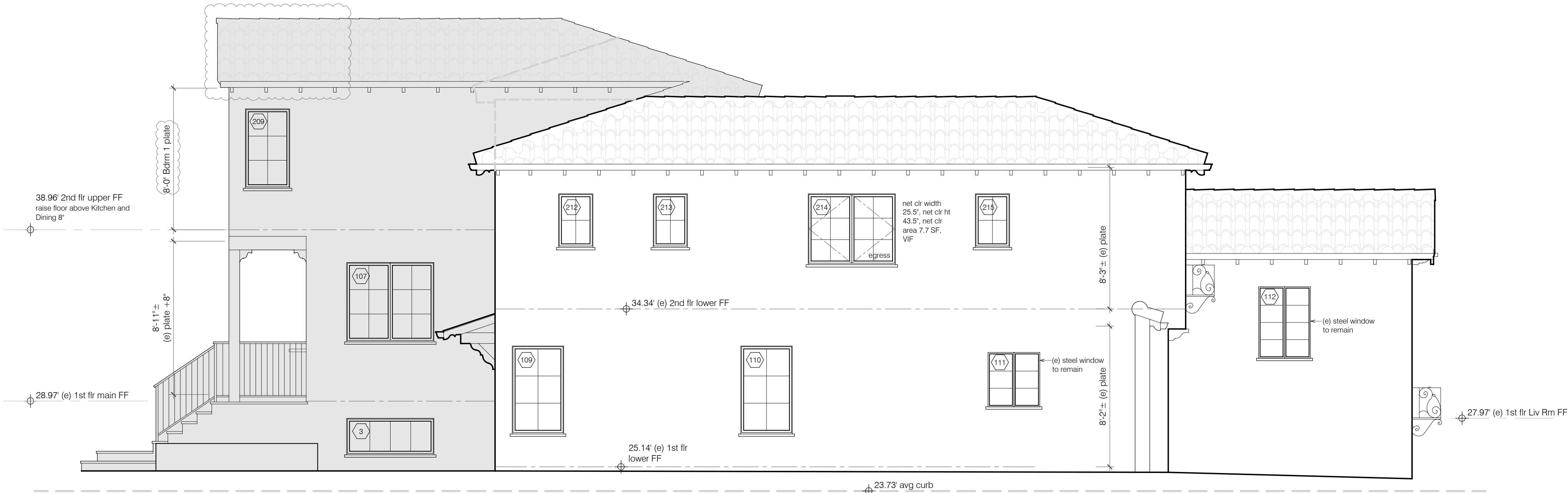
1/4"=1'-0"





ECHTER REMODEL AND ADDITION
233 ARUNDEL ROAD
BURLINGAME, CALIFORNIA

APN: 029-251 -040



PROPOSED LEFT-SIDE (SOUTH) ELEVATION

1/4"= 1'-0"



EXISTING LEFT-SIDE (SOUTH) ELEVATION

1/4"= 1'-0"

drawing title

revisions

11.13.25

Design Review Cycle 1

date: 08.21.25

scale: as noted

drawn by: EL

job: ECHTER

sheet

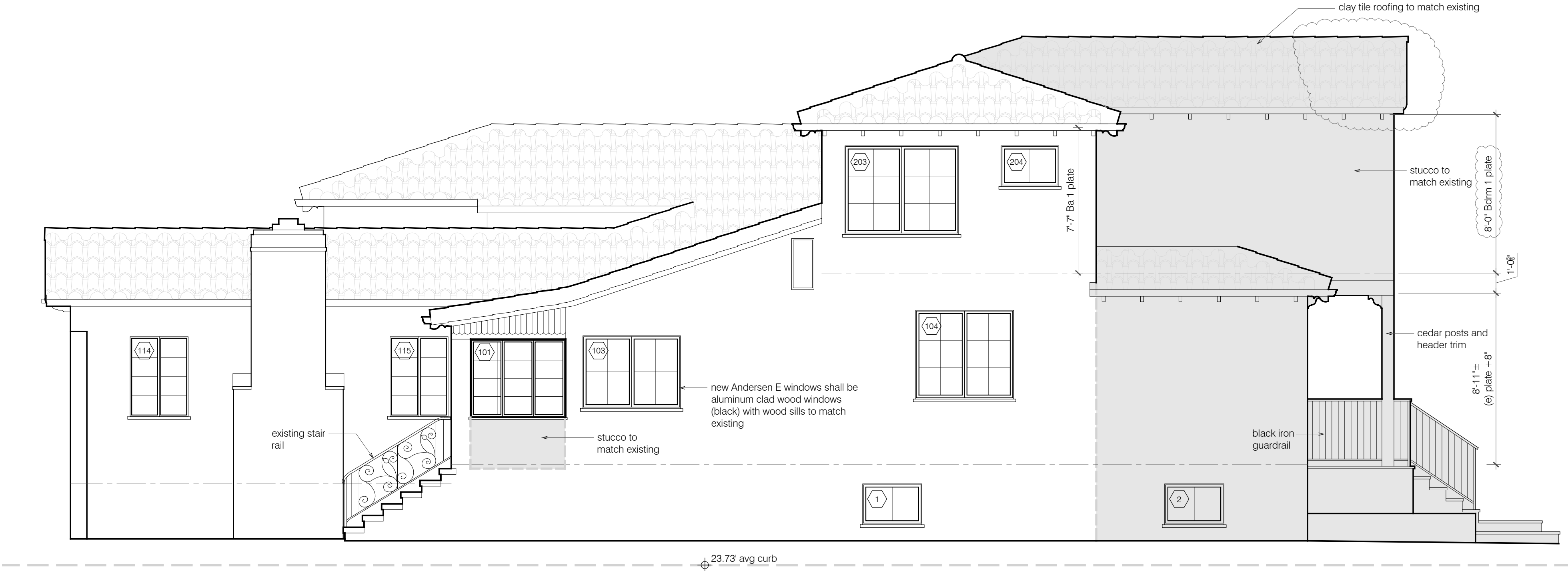
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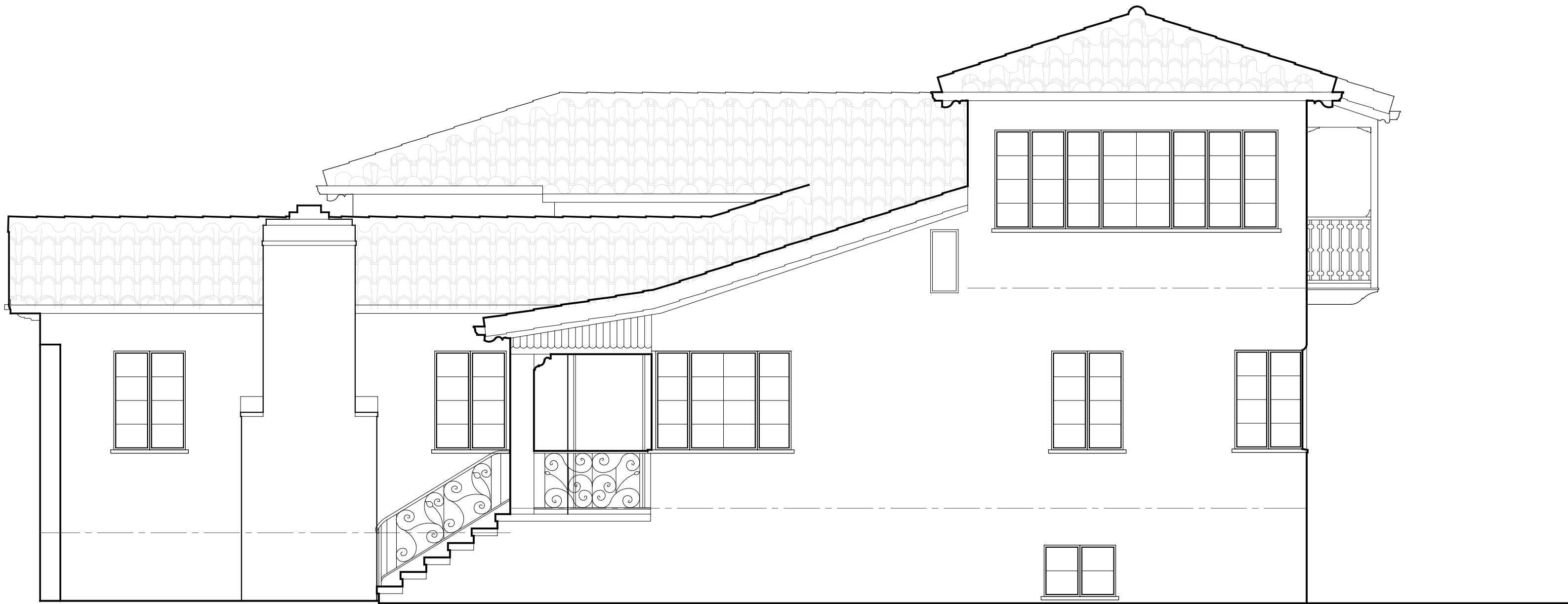
ECHTER REMODEL AND ADDITION
233 ARUNDEL ROAD
BURLINGAME, CALIFORNIA

APN: 029-251 -040



PROPOSED RIGHT-SIDE (NORTH) ELEVATION

1/4" = 1'-0"



EXISTING RIGHT-SIDE (NORTH) ELEVATION

1/4" = 1'-0"

drawing title

revisions

11.13.25

Design Review Cycle 1

date: 08.21.25

scale: as noted

drawn by: EL

job: ECHTER

sheet

A7

of 16 sheets



ECHTER REMODEL AND ADDITION
233 ARUNDEL ROAD
BURLINGAME, CALIFORNIA

APN: 029-251 -040

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revisions

11.13.25

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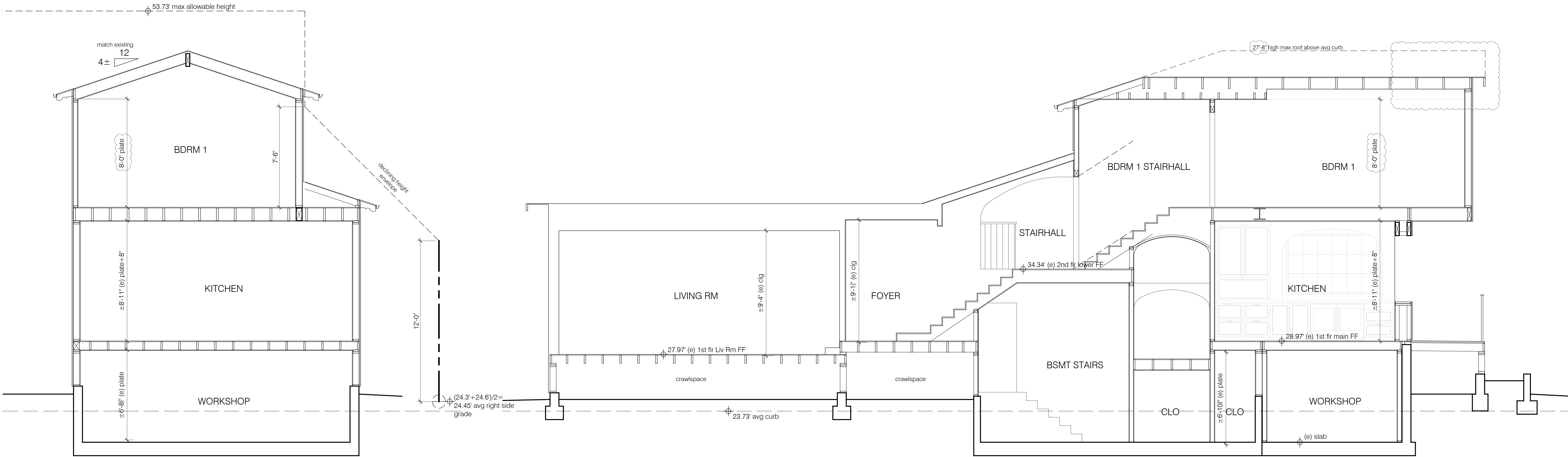
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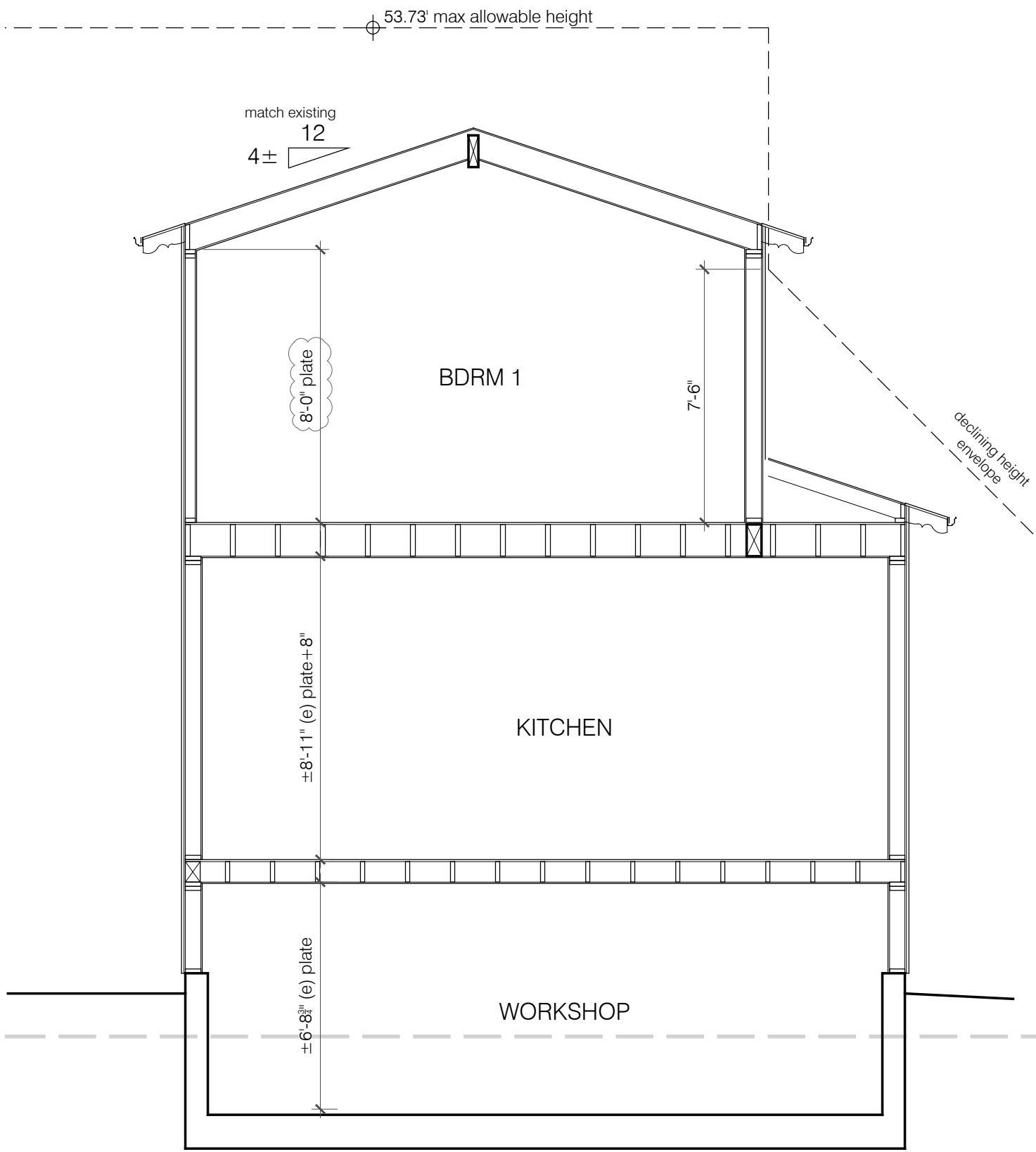
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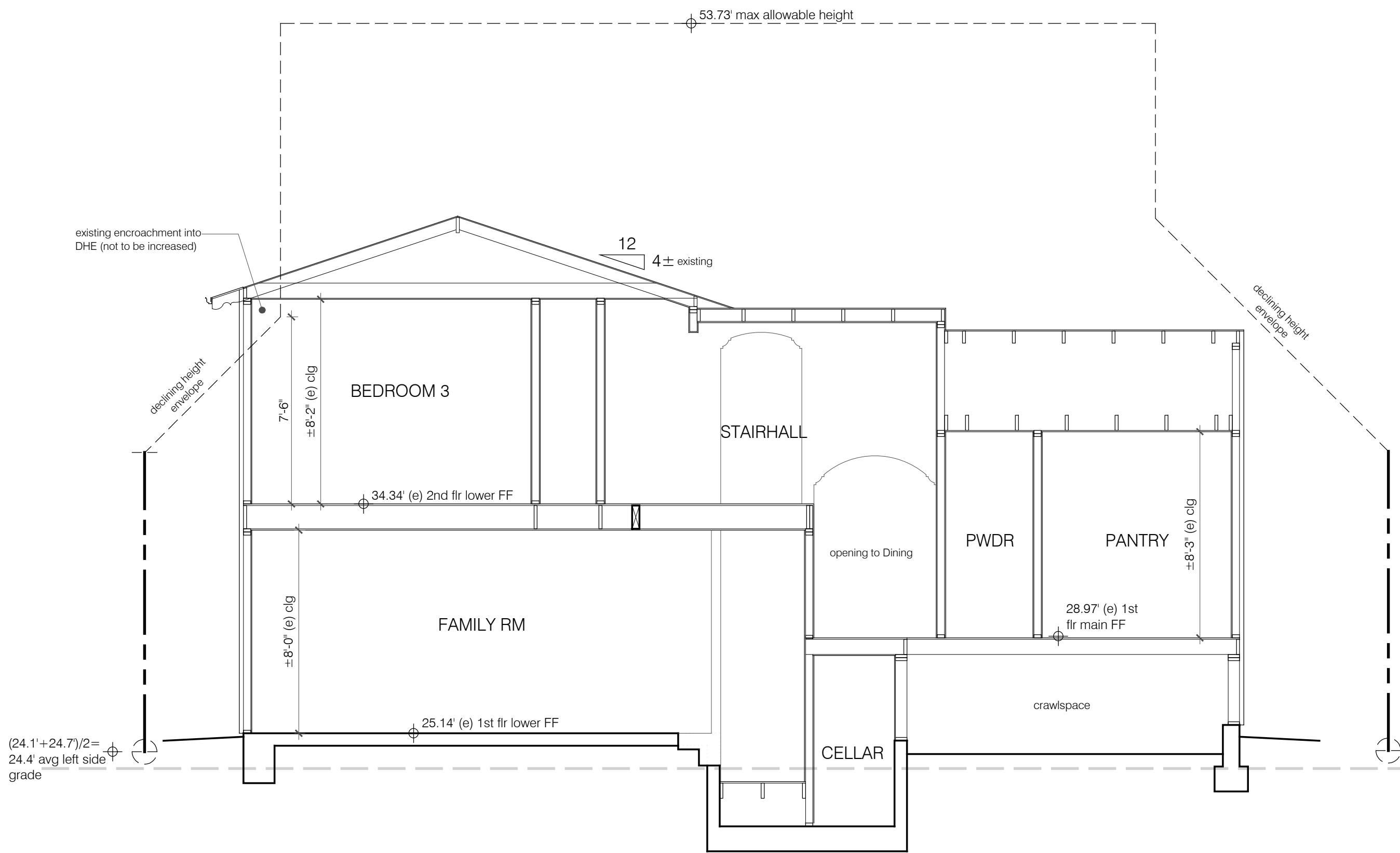
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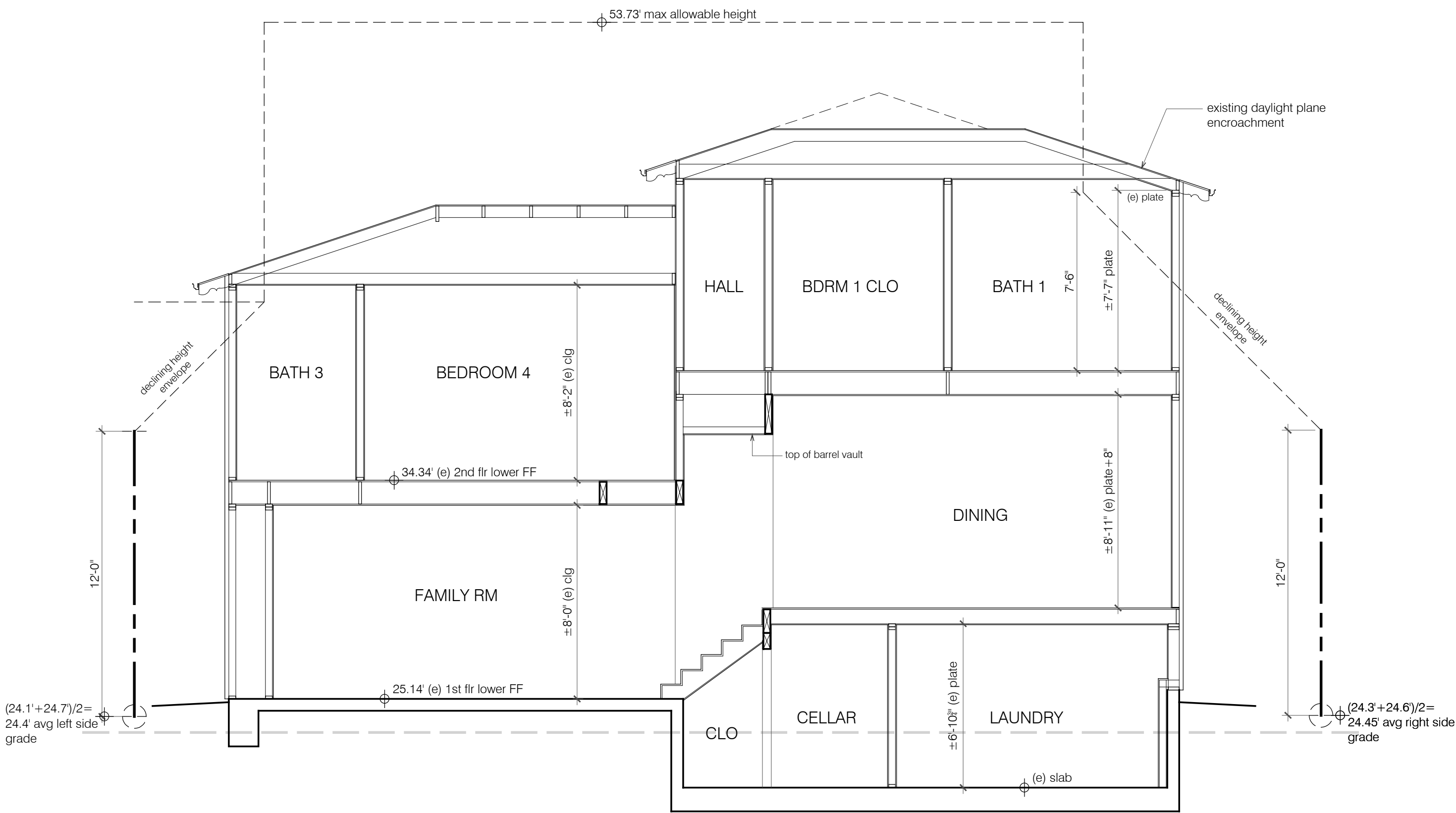
A SECTION
1/4" = 1'-0"



B SECTION
1/4" = 1'-0"



D SECTION
1/4" = 1'-0"



C SECTION
1/4" = 1'-0"