

**2390 MARINER SQUARE DRIVE**

OWNER:



CONTRACTOR:  
ARCO MURRAY  
900 N. ROCK HILL ROAD  
ST. LOUIS, MISSOURI 63119  
TEL: (314) 963-0715  
FAX: (314) 963-7114

STRUCTURAL ENGINEER:  
MARTIN/ MARTIN  
700 LARKSPUR LANDING CIR.  
SUITE #155  
LARKSPUR, CA 94939  
TEL: (415) 814-0030

ALT	ALTERNATE	ELECT	ELECTRICAL	MULL	MULLION
A/C	AIR CONDITIONING	ELEV	ELEVATION	NIC	NOT IN CONTRACT
AF	ABOVE FINISHED FLOOR	EJ	EXPANSION JOINT	NTS	NOT TO SCALE
AL	ALUMINUM	EP	EPOXY PAINT	OC	ON CENTER
ARF	ABOVE RAISED FLOOR	EQ	EQUAL	OFCI	OWNER FURNISHED.
AT	ACOUSTIC TILE	EXIST	EXISTING		CONTRACTOR TO INSTAL
BD	BOARD	EXP	EXPOSED		OPPOSITE
BLD	BUILDING	EXT	EXTERIOR	OPP	
BLKG	BLOCKING	EWC	ELECTRIC WATER COOLER	PNT	PAINT
BO	BOTTOM OF	FEC	FIRE EXTINGUISHER CABINET	PR	PAIR
BR	BRUSHED	FHC	FIRE HOSE CABINET	PLAM	PLASTIC LAMINATE
BRG	BEARING	FIN	FINISH	PL	PLATE
CA	CLEAR ANODIZED	FD	FLOOR DRAIN	QT	QUARRY TILE
CAB	CABINET	FLR	FLOOR	RAD	RADIUS
CPT	CARPET	FMR	FACE OF MASONRY	R	RISER
CL	CENTERLINE		TO FACE OF MASONRY	RH	RIGHT HAND
CLG	CEILING	FTG	FOOTING	REQ'D	REQUIRED
CJ	CONTROL JOINT	GA	GAUGE	RO	ROUGH OPENING
CMU	CONC. MASONRY UNIT	GALV	GALVANIZED	SB	SANDBLAST
CONC	CONCRETE	GB	GYPSUM BOARD	SC	SOLID CORE
CONT	CONTINUOUS	GL	GLASS	SCHED	SCHEDULE
CJ	CAST IRON	HDWD	HARDWOOD	SM	SHEET METAL
CO	CLEAN OUT	HDWR	HARDWARE	SHT	SHEET
CP	COLD WATER	HM	HOLLOW METAL	SIM	SIMILAR
CW	CEMENT PLASTER	HR	HOUR	SS	STAINLESS STEEL
CT	CERAMIC TILE	HT	HEIGHT	STD	STANDARD
CF	DRINKING FOUNTAIN	HW	HOT WATER	THK	THICK
DIA	DIAMETER	INT	INTERIOR	TRANS	TRANSPARENT
DIM	DIMENSION	INSUL	INSULATION	T	TREAD
DN	DOWN	JT	JOINT	TO	TOP OF
DS	DOWNSPOUT	LC	LIGHTWEIGHT CONC.	T & G	TONGUE AND GROOVE
DET	DETAIL	LAM	LAMINATED	TYP	TYPICAL
DW	DRY WALL	LAV	LAVATORY	UNO	UNLESS NOTED OTHERWISE
DWG	DRAWING	LH	LEFT HAND	VCT	VINYL COMPOSITION TILE
EA	EACH	MFR	MANUFACTURER	VIF	VERIFY IN FIELD
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MO	MASONRY OPENING	WD	WOOD
		MWK	MILLWORK	WP	WALL PHONE
		MTL	METAL	WWF	WELED WIRE FABRIC

**Exhibit 1**  
**Item 7-B, March 9, 2020**  
**Planning Board Meeting**

The map shows the Alameda Landing area in Oakland, CA. A black hatched area indicates the proposed hotel site, with a line pointing to the text "Proposed Stay America Oakland - Alameda". The map includes major roads like Webster Street, Marina Village Pkwy, and Alameda Ave. Key landmarks such as Alameda Landing Park, Target, and various businesses are labeled.

[illegible]

- City of Alameda Building Code
- City of Alameda Electric Code
- City of Alameda Mechanical Code
- City of Alameda Plumbing Code
- City of Alameda Energy Code
- California Fire Code, Current Edition
- California Accessibility Code, Current Edition

3	02/07/20	CITY OF ALAMEDA REVIEW
2	01/03/20	CITY OF ALAMEDA REVIEW
1	10/09/19	CITY OF ALAMEDA REVIEW
NO	DATE	ISSUE DESCRIPTION

THESE DRAWINGS MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENTLY THAN ORIGINALLY DRAWN. OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR USE OF INCORRECT SCALE.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

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PRINCIPAL: MS	P.M.: CM & MA
QC BY: DC	DRAWN BY: JW

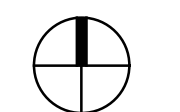


Ph 312.988.7412  
Fx 312.988.7409  
[www.sgwarch.com](http://www.sgwarch.com)

PROFESSIONAL DESIGN FIRM  
License Number: 184-001505  
Expiration Date: April 30, 2021

ALAMEDA, CALIFORNIA 94501

TITLE SHEET & DRAWING INDEX

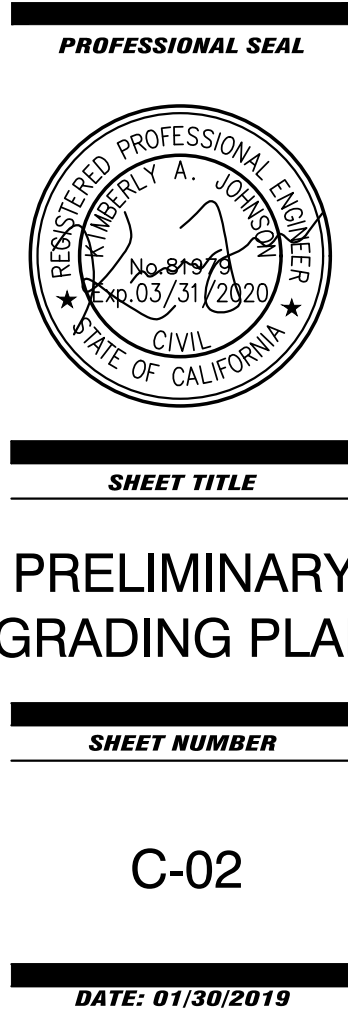


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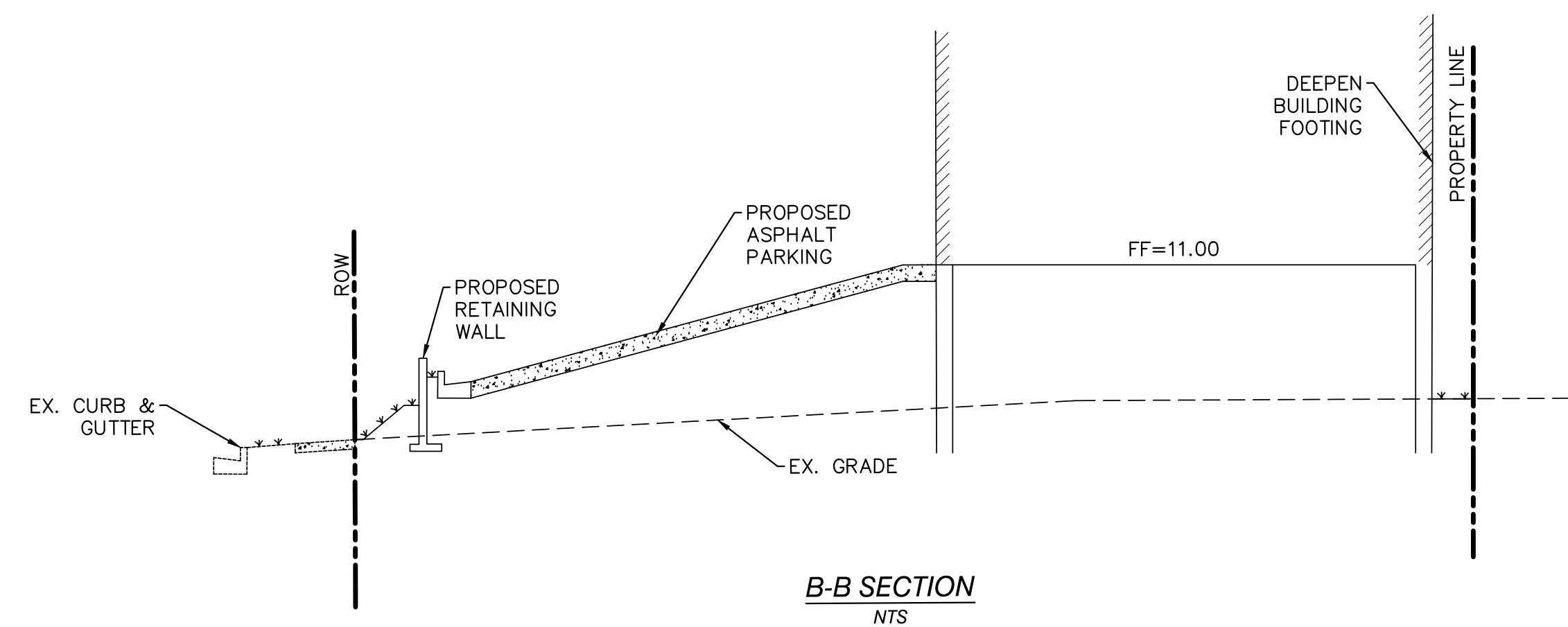
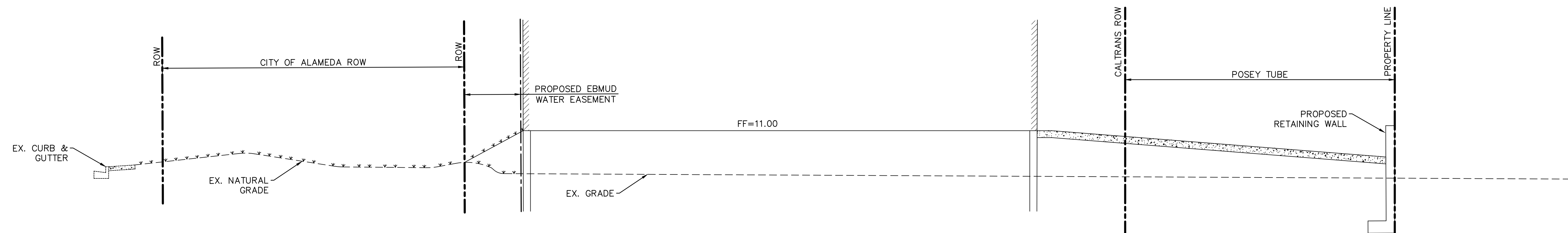










**DRAWING ISSUE RECORD**[illegible]

### REVISION RECORD

[illegible]

**PROJECT NAME**



**SHEET TITLE**

**SHEET NUMBER**

**DATE: 01/30/2019**





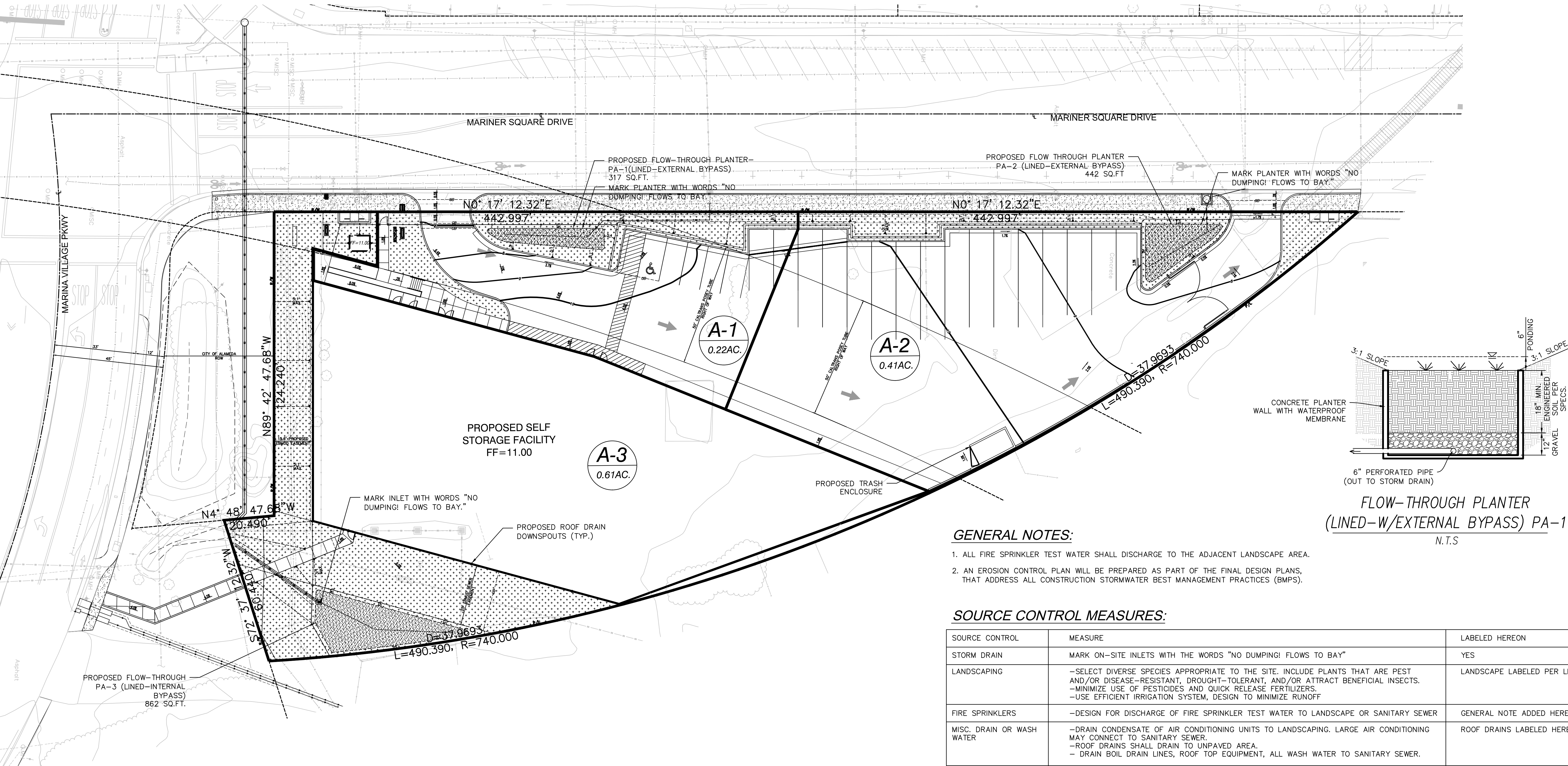
WQMP SUMMARY:

AREA (ID)	AREA (SQ.FT)	IMPERVIOUS AREA	PERVIOUS AREA	C-3 BMP	PRELIMINARY TREATMENT SURFACE AREA (SQ.FT)	ACTUAL TREATMENT SURFACE AREA IMPLEMENTED (SQ.FT)	PONDING DEPTH REQUIRED (IN)	PONDING DEPTH IMPLEMENTED (IN)	COMPLIANT
A-1	9,587	7,631	1,956	FLOW THROUGH PLANTER	235	317	-0.22	6	YES
A-2	17,916	15,846	2,070	FLOW THROUGH PLANTER	482	442	8	8	YES
A-3	26,643	18,431	8,212	FLOW THROUGH PLANTER	578	862	-1.90	6	YES

ALAMEDA COUNTY WORKSHEET FOR CALCULATING THE COMBINATION FLOW AND VOLUME METHOD FOR FLOW THROUGH PLANTERS WAS UTILIZED. PLEASE REFER TO SHEET C-07 FOR FURTHER CALCULATIONS

WQMP CALCULATIONS:

REFER TO SHEET C-07 FOR WQMP CALCULATIONS



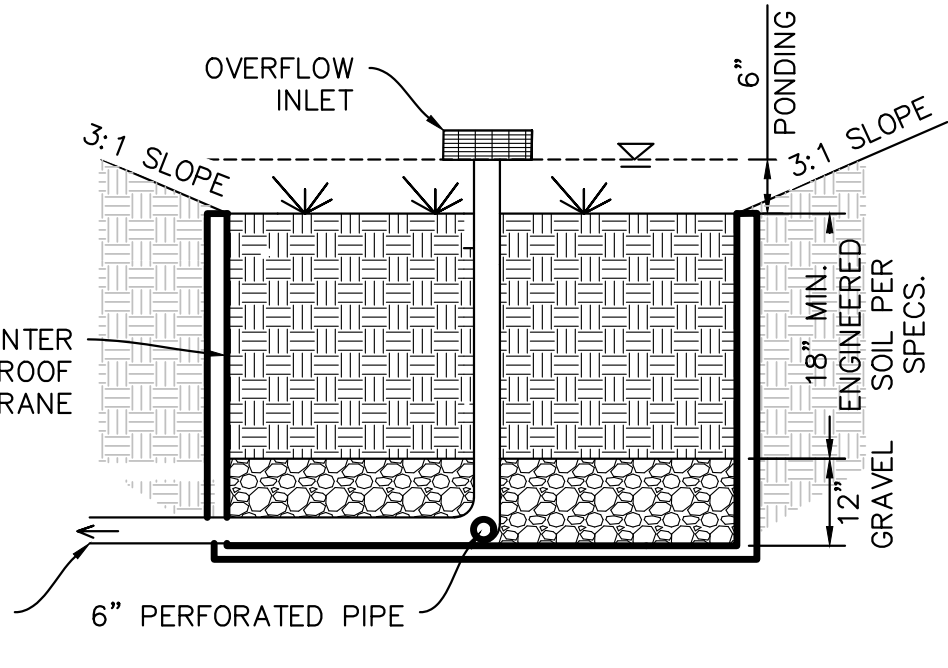
FLOW-THROUGH PLANTER  
(LINED-W/EXTERNAL BYPASS) PA-1  
N.T.S

GENERAL NOTES:

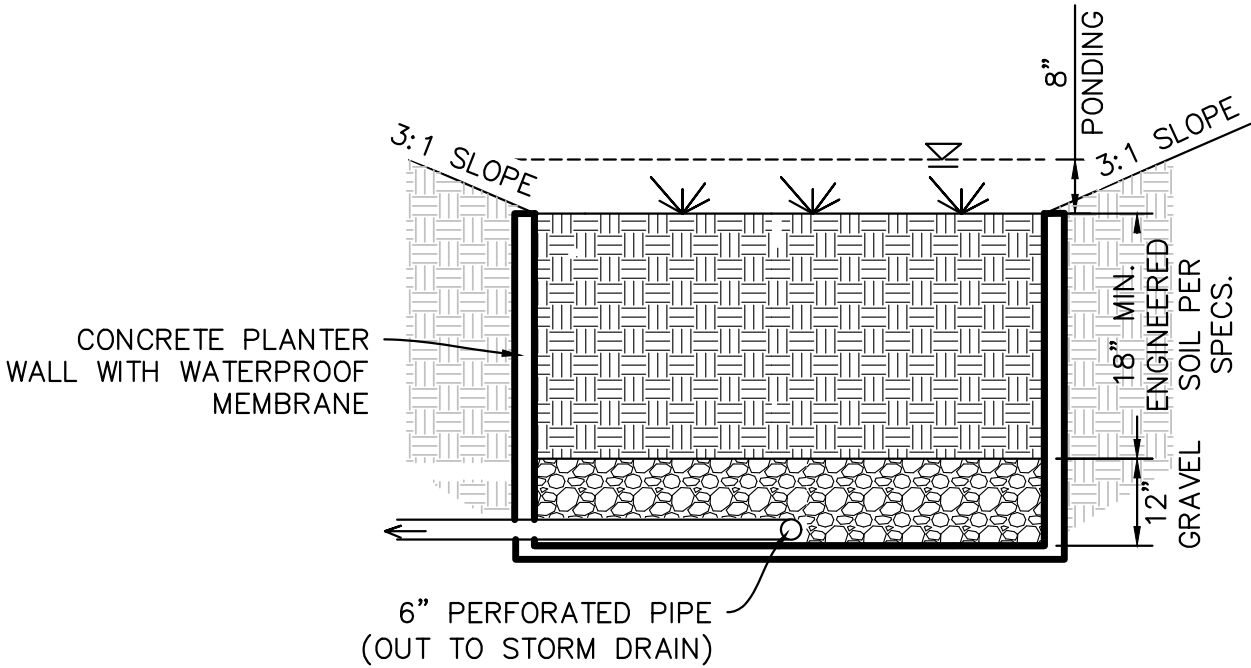
- ALL FIRE SPRINKLER TEST WATER SHALL DISCHARGE TO THE ADJACENT LANDSCAPE AREA.
- AN EROSION CONTROL PLAN WILL BE PREPARED AS PART OF THE FINAL DESIGN PLANS, THAT ADDRESS ALL CONSTRUCTION STORMWATER BEST MANAGEMENT PRACTICES (BMP'S).

SOURCE CONTROL MEASURES:

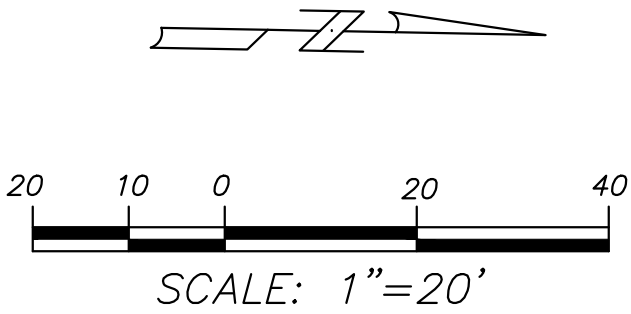
SOURCE CONTROL	MEASURE	LABELED HEREON
STORM DRAIN	MARK ON-SITE INLETS WITH THE WORDS "NO DUMPING! FLOWS TO BAY"	YES
LANDSCAPING	-SELECT DIVERSE SPECIES APPROPRIATE TO THE SITE. INCLUDE PLANTS THAT ARE PEST AND/OR DISEASE-RESISTANT, DROUGHT-TOLERANT, AND/OR ATTRACT BENEFICIAL INSECTS. -MINIMIZE USE OF PESTICIDES AND QUICK-RELEASE FERTILIZERS. -USE EFFICIENT IRRIGATION SYSTEM, DESIGN TO MINIMIZE RUNOFF	LANDSCAPE LABELED PER LEGEND
FIRE SPRINKLERS	-DESIGN FOR DISCHARGE OF FIRE SPRINKLER TEST WATER TO LANDSCAPE OR SANITARY SEWER	GENERAL NOTE ADDED HEREON
MISC. DRAIN OR WASH WATER	-DRAIN CONDENSATE OF AIR CONDITIONING UNITS TO LANDSCAPING. LARGE AIR CONDITIONING MAY CONNECT TO SANITARY SEWER. -ROOF DRAINS SHALL DRAIN TO UNPAVED AREA. - DRAIN BOIL DRAIN LINES, ROOF TOP EQUIPMENT, ALL WASH WATER TO SANITARY SEWER.	ROOF DRAINS LABELED HEREON.



FLOW-THROUGH PLANTER  
(LINED-W/INTERNAL BYPASS)PA-3  
N.T.S



FLOW-THROUGH PLANTER  
(LINED-W/EXTERNAL BYPASS) PA-2  
N.T.S



LEGEND

- FLOW-THROUGH PLANTER PER DETAIL HEREON
- LANDSCAPE
- DRAINAGE AREA
- DRAINAGE CALLOUT
- SOIL GROUP D
- GROUNDWATER DEPTH: 2' @ HIGH TIDE

DRAWING ISSUE RECORD

DATE DESCRIPTION

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NO. DATE DESCRIPTION

PROJECT NAME

BANNER SELF STORAGE  
2390 MARINER SQUARE DRIVE  
ALAMEDA, CA.

PROFESSIONAL SEAL



SHEET TITLE

PRELIMINARY  
WQMP EXHIBIT

SHEET NUMBER

C-05

DATE: 01/30/2019













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DATE DESCRIPTION

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NO. DATE DESCRIPTION

PROJECT NAME

BANNER SELF STORAGE  
2390 MARINER SQUARE DRIVE  
ALAMEDA, CA.

PROFESSIONAL SEAL



SHEET TITLE

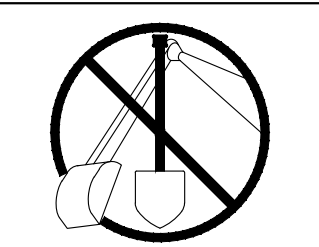
FIRE TRUCK  
TURN  
EXHIBIT

SHEET NUMBER

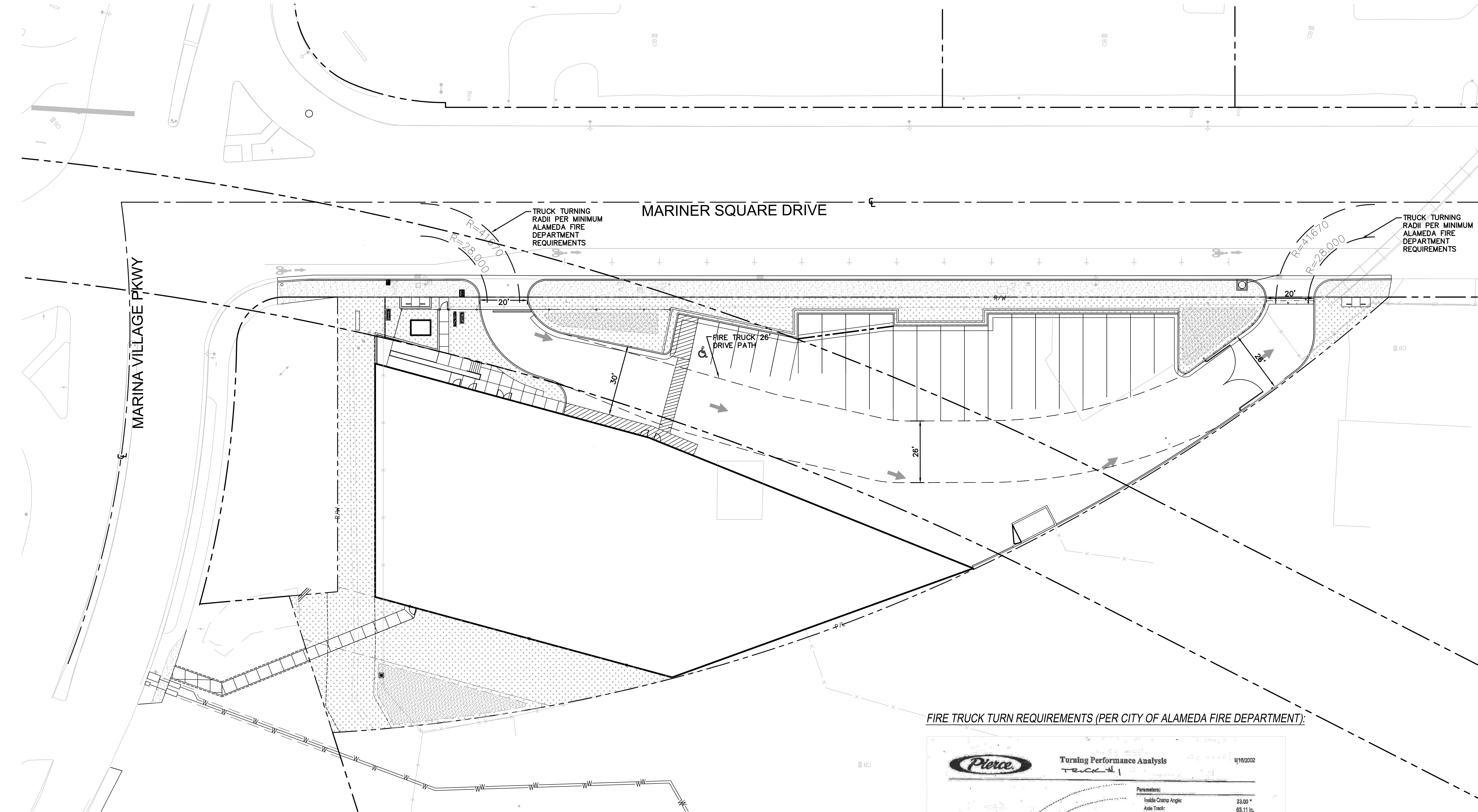
C-09

DATE: 01/30/2019

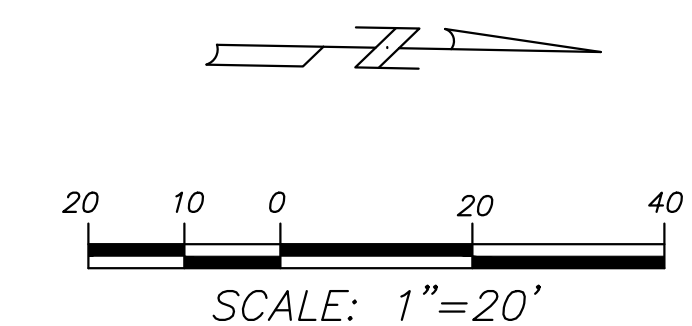
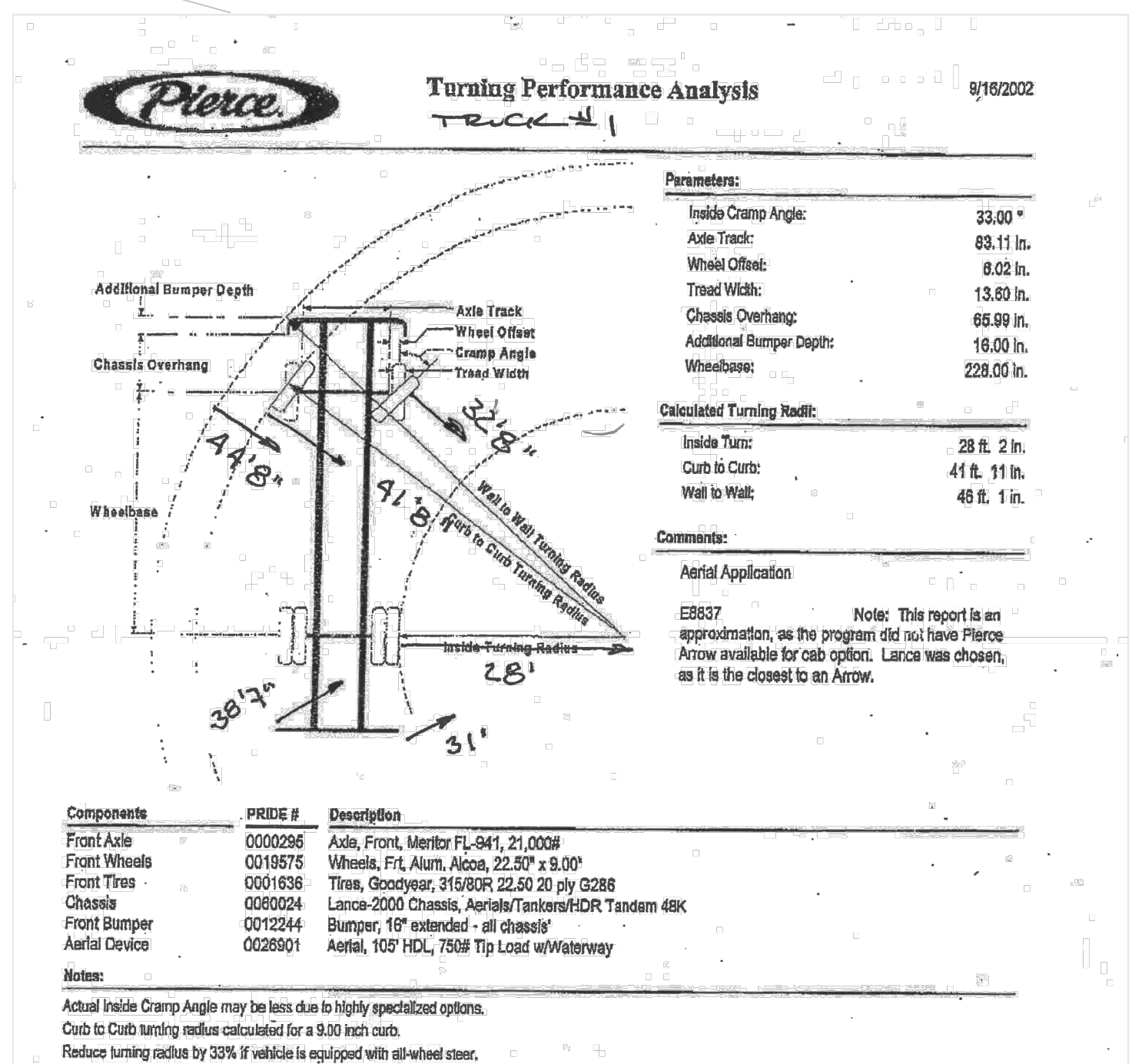
DIGALERT



CALL BEFORE YOU DIG  
1-800-227-2600  
AT LEAST  
2 WORKING DAY  
NOTICE REQUIRED



FIRE TRUCK TURN REQUIREMENTS (PER CITY OF ALAMEDA FIRE DEPARTMENT):





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DATE DESCRIPTION

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BANNER SELF STORAGE  
2390 MARINER SQUARE DRIVE  
ALAMEDA, CA.

PROFESSIONAL SEAL



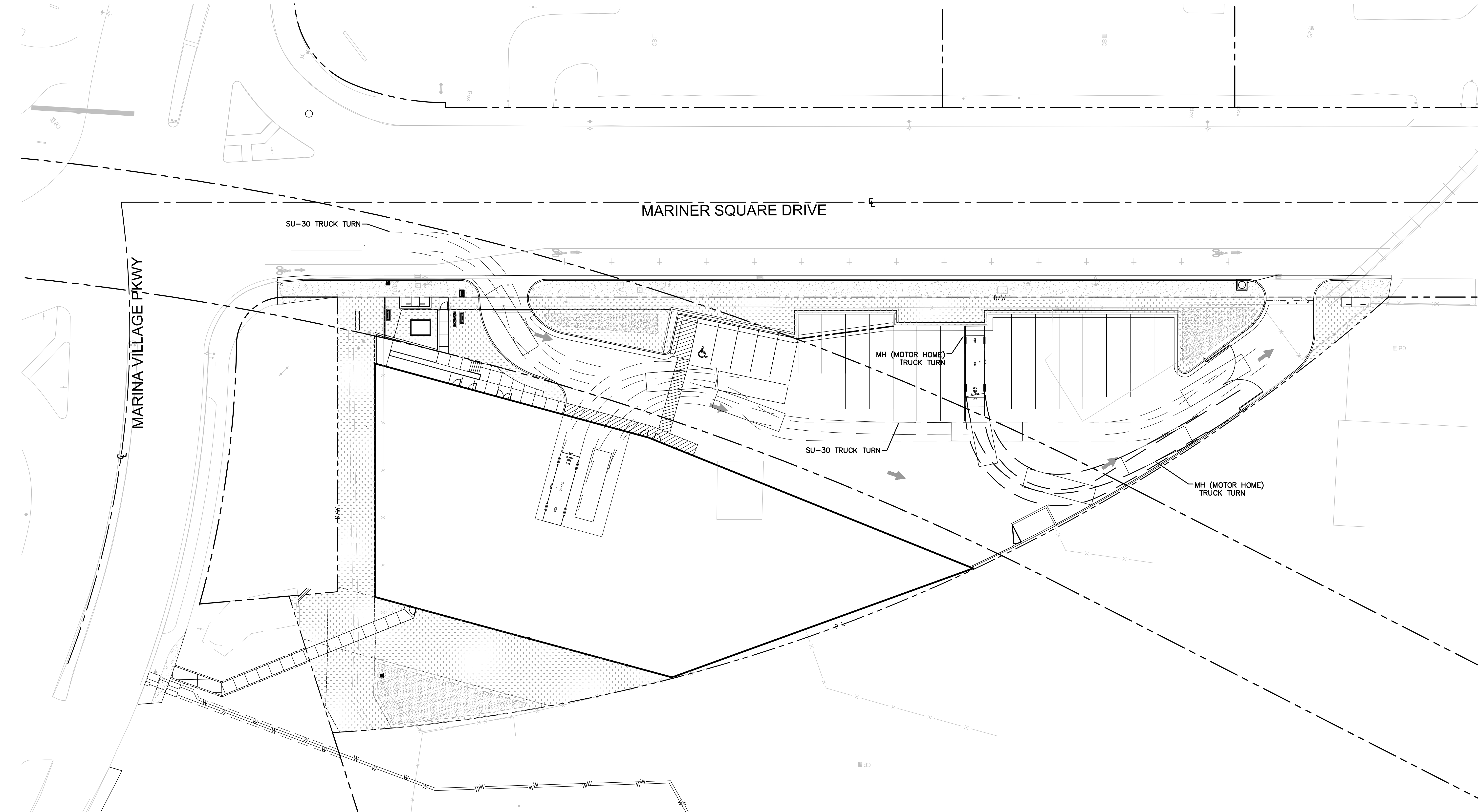
SHEET TITLE

TRUCK TURN  
EXHIBIT

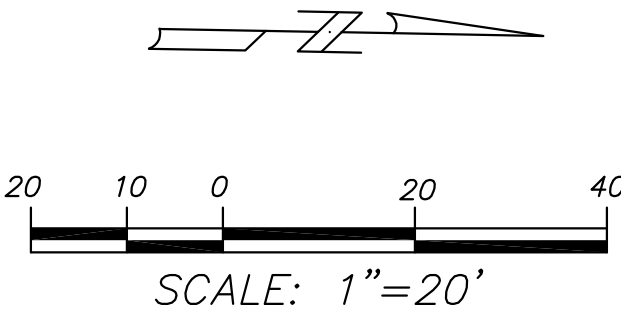
SHEET NUMBER

C-10

DATE: 01/30/2019



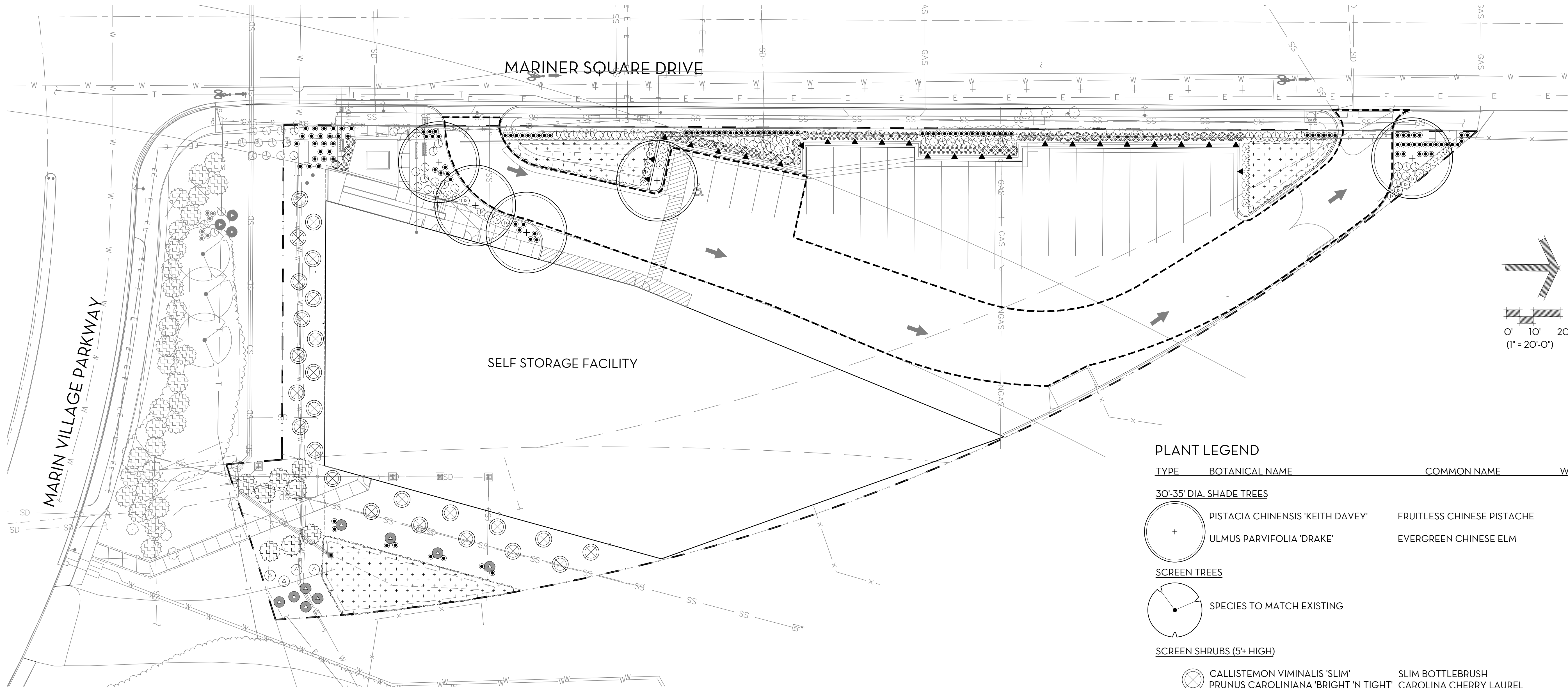
AASHTO TRUCK MODELING:			
VEHICLE TYPE	MIN. TURN RADIUS (CLOCKWISE ARC)	CALCULATED COUNTERCLOCKWISE ARC RADII	TOTAL LENGTH OF VEHICLE
SINGLE-UNIT TRUCK (SU-30)	41.8'	33.8'	30'
MOTOR HOME (MH)	39.7'	31.7'	30'



DIGALERT

CALL BEFORE YOU DIG  
1-800-227-2600  
AT LEAST  
2 WORKING DAY  
NOTICE REQUIRED





PRELIMINARY LANDSCAPE COVERAGE

TOTAL SITE SQ. FOOTAGE: 54,106 SF  
REQUIRED LANDSCAPE: 30% = 16,231 SF  
PROVIDED LANDSCAPE: 22% = 11,817 SF

PRELIMINARY TREE CALCULATIONS

TOTAL PARKING STALLS: 5  
1 TREE PER 4 STALLS  
REQUIRED QTY. OF TREES: 2  
PROVIDED: 5 SHADE TREES

SHADE CALCULATIONS (FOR BAY-FRIENDLY SCORECARD)

CANOPY DIA.	F	TQ	H	Q	TOTAL
35' DIA. TREES	0@962	1@721	3@481	1@123	2,287 SF
TOTAL TREE SHADE:					2,287 SF
TOTAL PARKING LOT AREA:					10,890 SF
50% REQUIRED:					5,445 SF
% SHADE PROVIDED:					21%

NOTE:  
ALL DOCUMENTS REQUIRED BY THE CITY OF ALAMEDA'S LANDSCAPE DOCUMENT PACKAGE WILL BE PROVIDED DURING THE CONSTRUCTION DOCUMENTATION PHASE OF THE PROJECT. THE PLANS WILL MEET ALL MWEO REQUIREMENTS.

PLANT LEGEND

TYPE	BOTANICAL NAME	COMMON NAME	WATER USE	SIZE	HEIGHT/WIDTH
30'-35' DIA. SHADE TREES					
	PISTACIA CHINENSIS 'KEITH DAVEY'	FRUITLESS CHINESE PISTACHE	L	15 GAL.	30'x30'
	ULMUS PARVIFOLIA 'DRAKE'	EVERGREEN CHINESE ELM	L	15 GAL.	30'x40'
SCREEN TREES					
	SPECIES TO MATCH EXISTING		M		
SCREEN SHRUBS (5'+ HIGH)					
	CALLISTEMON VIMINALIS 'SLIM'	SLIM BOTTLEBRUSH	L	5 GAL.	8' x 3'
	PRUNUS CAROLINIANA 'BRIGHT 'N TIGHT'	CAROLINA CHERRY LAUREL	L	5 GAL.	8' x 6'
	ROSMARINUS OFFICINALIS 'TUSCAN BLUE'	UPRIGHT ROSEMARY	L	5 GAL.	6' x 3'
FOUNDATION SHRUBS					
	DIETES IRIDIODES	AFRICAN IRIS	L	5 GAL.	3.5'x3.5'
	LOMANDRA 'PLATINUM BEAUTY'	VARIEGATED DWARF MAT RUSH	L	1 GAL.	2' x 2'
	SALVIA LEUCANTHA 'SANTA BARBARA'	COMPACT MEXICAN BUSH SAGE	L	5 GAL.	2.5'x3.5'
	WESTRINGIA R. 'MORNING LIGHT'	VARIEGATED COAST ROSEMARY	L	5 GAL.	3' x 3'
ACCENT SHRUBS					
	ANIGOZANTHOS HYBRID 'ORANGE'	ORANGE KANGAROO PAW	L	1 GAL.	3.5' x 2.5'
	DIANELLA REVOLUTA 'LITTLE REV'	LITTLE REV FLAX LILY	L	1 GAL.	2.5' x 1.5'
	MUHLENBERGIA CAPILLARIS	PINK MUHLY	L	5 GAL.	3' x 6'
	PHORMIUM 'YELLOW WAVE'	NEW ZEALAND FLAX	L	5 GAL.	4' x 4'
VINES					
	GELSEMIUM SEMPERVIRENS	CAROLINA JESSAMINE	L	5 GAL.	10' O.C.
GROUNDCOVERS					
	CISTUS 'SUNSET'	MAGENTA ROCKROSE	L	5 GAL.	1.5' x 6', 5' O.C.
	MYOPORUM PARVIFOLIUM 'WHITE'	CREeping MYOPORUM	L	5 GAL.	0.5' x 6', 5' O.C.
BIOFILTRATION AREA					
	CHONDRPETALUM TECTORUM	CAPE RUSH	L	1 GAL.	3' O.C.
	JUNCUS PATENS	CALIFORNIA GREY RUSH	L	1 GAL.	30" O.C.
MULCH					
	WALK-ON BARK MULCH ONLY				



TREES



PISTACIA CHINENSIS 'KEITH DAVEY'  
FRUITLESS CHINESE PISTACHE



ULMUS PARVIFOLIA 'DRAKE'  
EVERGREEN CHINESE ELM

SCREEN SHRUBS



CALLISTEMON 'SLIM'  
SLIM BOTTLEBRUSH



PRUNUS 'BRIGHT N' TIGHT'  
CAROLINA CHERRY LAUREL



ROSMARINUS 'TUSCAN BLUE'  
UPRIGHT ROSEMARY

FOUNDATION SHRUBS



DIETES IRIDIOIDES  
AFRICAN IRIS



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VARIEGATED DWARF MAT RUSH



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COMPACT MEXICAN BUSH SAGE



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VARIEGATED COAST ROSEMARY

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ANIGOZANTHOS HYBRID 'ORANGE'  
ORANGE KANGAROO PAW



DIANELLA REV. 'LITTLE REV'  
LITTLE REV FLAX LILY



MUHLENBERGIA CAPILLARIS  
PINK MUHLY



PHORMIUM 'YELLOW WAVE'  
NEW ZEALAND FLAX

VINES



GELSEMIUM SEMPERVIRENS  
CAROLINA JESSAMINE

GROUNDCOVERS



CISTUS 'SUNSET'  
MAGENTA ROCKROSE



MYOPORUM PARVIFOLIUM 'WHITE'  
CREEPING MYOPORUM

BIOFILTRATION AREA

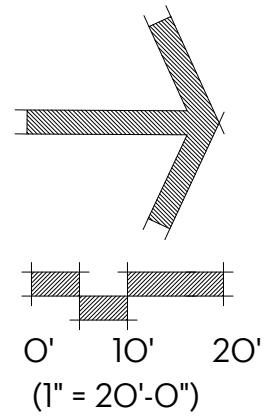
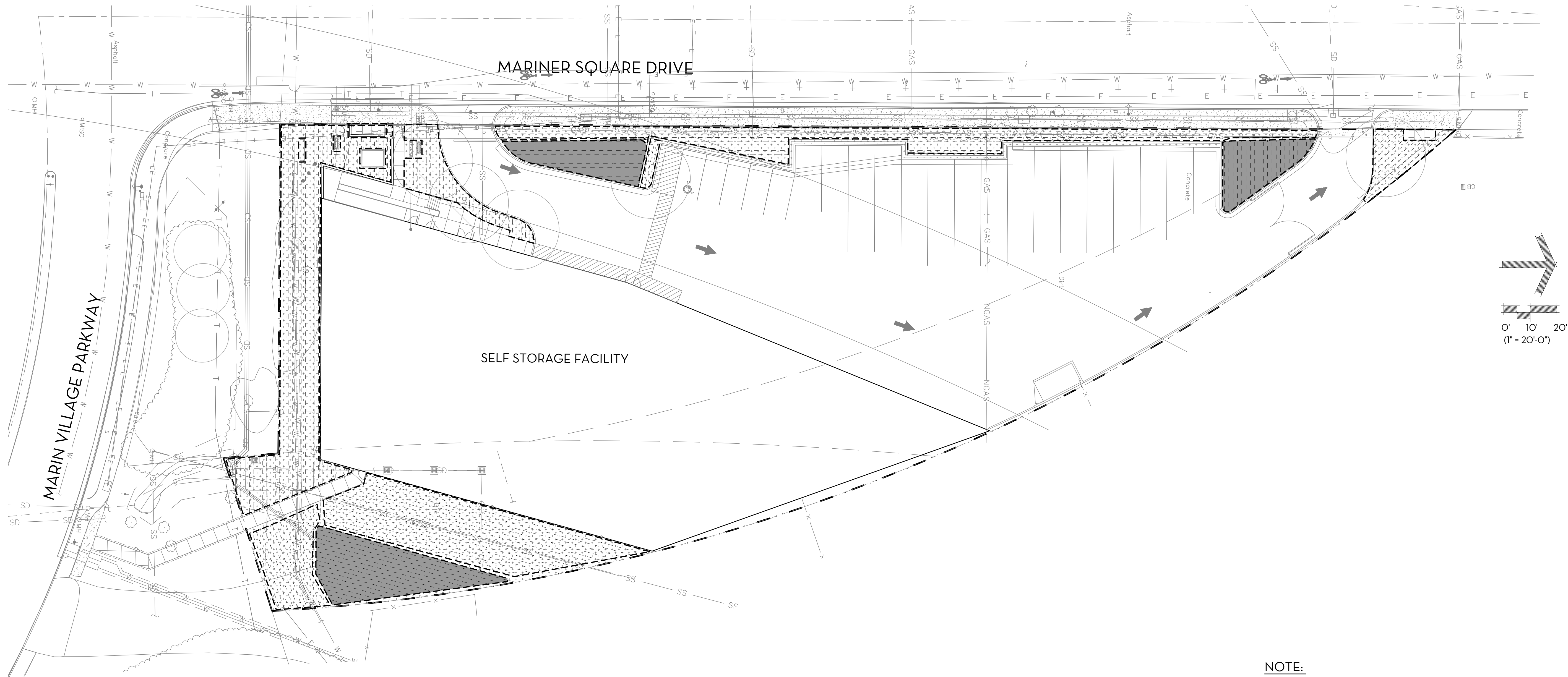


CHONDROPETALUM TECTORUM  
CAPE RUSH



JUNCUS PATENS  
CALIFORNIA GREY RUSH





IRRIGATION LEGEND

SYMBOL	MAN. / MODEL NO.	DESCRIPTION	RADIUS	PSI.	GPM.	PRECIP. RATE
	HUNTER/ ECO-MAT	ECO-MAT FLEECE IRRIGATION MAT WITH FLEECE WRAPPED HDL TUBING/ 0.60 GPH EMITTERS SPACED AT 12" WITH ROW SPACING AT 14". INSTALL 8"-9" BELOW FINISH GRADE WHERE SHOWN. SEE IRRIGATION NOTE X, SHEET LX.X.	N/A	30	0.69/100'	0.43
	HUNTER HDL-O6-18	HDL DRIP TUBING /0.60 GPH EMITTERS SPACED AT 18" O.C. INSTALL TUBING ON-GRADE, PER MANUFACTURERS INSTRUCTIONS, IN 18" SPACED ROWS WHERE SHOWN.SEE DETAIL X, SHEET LX.X.	N/A	30	0.69/100'	0.43
	HUNTER PLD-BV	PLD MANUAL FLUSH VALVE. INSTALL AT GRADE IN 10" ROUND VALVE BOX IN PLANTER AREA LOCATED AT FARTHEST POINT FROM DRIP ZONE CONTROL KIT, TYP.SEE DETAIL X, SHEET LX.X.				
	HUNTER ECO-ID	HUNTER ECO-INDICATOR FOR SUB-SURFACE IRRIGATION. INSTALL IN A VISIBLE LOCATION AT FARTHEST POINT FROM DRIP ZONE CONTROL KIT.				
	HUNTER PLD-AVR	AIR RELIEF VALVE. INSTALL AT GRADE AT HIGHEST POINT IN 6" ROUND VALVE BOX IN PLANTER AREA LOCATED AT HIGHEST POINT FROM DRIP ZONE CONTROL KIT, TYP.SEE DETAIL X, SHEET LX.X.				
NOT SHOWN	HUNTER VARIES	PLD CONNECTION FITTINGS, AS REQUIRED.				
	HUNTER RZWS-36-25-CVROOT ZONE WATERING SYSTEM	TWO (2) PER TREE* SEE DETAIL X, SHEET LX.X.	N/A	30	0.25	0.86
					*0.50	*1.72
	HUNTER ICV	HUNTER ICV CONTROL VALVE, SIZE AS NOTED,SEE DETAIL X, SHEET LX.X.				
	HUNTER ICZ	HUNTER DRIP ZONE CONTROL KIT, SIZE AS NOTEDSEE DETAIL X, SHEET LX.X.				
	NIBCO T-113	BRASS GATE VALVE, LINE SIZE.SEE DETAIL X, SHEET LX.X.				

	HUNTER HQ44-LRC	1" BRASS QUICK COUPLING VALVE W/ LOCKING COVERSEE DETAIL X, SHEET LX.X.
	HUNTER ICV-10IG	1" NORMALLY CLOSED MASTER VALVE. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SEE DETAIL X, SHEET LX.X.
	CST FSI-T10-001	1" FLOW SENSOR FOR USE WITH CONTROLLER. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SEE DETAIL X, SHEET LX.X.
	HUNTER IC-600 /ICM-600/ WSS-SEN /PED-SS	6 STATION I-CORE CONTROLLER AND 6 STATION PLUG-IN EXPANSION MODULE (12 STATIONS TOTAL) WITH SOLAR SYNC WIRELESS WEATHER SENSOR MOUNTED IN STAINLESS STEEL PEDESTAL ENCLOSURE. COORDINATE WEATHER STATION PLACEMENT AND ELECTRICAL CONNECTION. INSTALL PER MANUFACTURER'S SPECIFICATIONS. CONTACT DON FRANKLIN AT (916) 899-9437 FOR PRICING, PRE-CONSTRUCTION MEETING AND INSTALLATION.
	(E) MAINLINE, FIELD VERIFY LOCATION.	
	MAINLINE: PVC SCHEDULE 40 FOR SIZES 2" OR SMALLER, PVC CLASS 315 FOR SIZES 2" OR ABOVE. SOLVENT WELD FITTINGS AT 24" DEPTH, SIZE AS NOTED.	
	ELECTRICAL SERVICE CONDUIT WITH WIRES, RUN ALONG MAINLINE TO VALVE CONNECTIONS.	
	IRRIGATION LATERAL LINE: CLASS 200 PVC UP TO 2"; SCHEDULE 40 PVC PIPE FOR 2.5" OR ABOVE. SOLVENT WELD FITTINGS AT 18" DEPTH, SIZE AS NOTED.	
	IRRIGATION SLEEVE: SCHEDULE 40 PVC, SIZE TO BE 2X THE TOTAL OF PIPE DIAMETER. INSTALL UNDER ALL NEW PAVING AND EXTEND 12" BEYOND HARDSCAPE EDGES.	
	HYDROZONE AREA DELINEATION.	
	CONTROLLER/ HYDROZONE #	-GPM (IRRIGATION PRODUCT TYPE)
	VALVE SIZE	-PRECIP.RATE/PSI/HYDROZONE AREA (SF)
	VALVE WATER USE TYPE	

NOTE:

ALL DOCUMENTS REQUIRED BY THE CITY OF ALAMEDA'S LANDSCAPE DOCUMENT PACKAGE WILL BE PROVIDED DURING THE CONSTRUCTION DOCUMENTATION PHASE OF THE PROJECT. THE PLANS WILL MEET ALL MWEL0 REQUIREMENTS.

SELF STORAGE FACILITY, 2390 MARINER SQUARE DRIVE, ALAMEDA, CA									
WATER EFFICIENT LANDSCAPE WORKSHEET									
REGULAR LANDSCAPE AREAS									
VALVE NUMBER	IRRIGATION METHOD	PLANT WATER USE	PLANT FACTOR (PF)	IRRIGATION EFFICIENCY (IE)	LANDSCAPE AREA (SF)	ETAF (PF/IE)	ETAF x AREA	ETWU	
A1	DRIP	LOW	0.2	0.81	8,208	0.25	2,026.67	44,104	
A2	DRIP	MODERATE	0.5	0.81	2,284	0.62	1,409.88	30,682	
A3	TREE BUBBLER	MODERATE	0.5	0.81	140	0.62	86.42	1,881	
TOTALS:				(A)	10,632	(B)	3,522.96	76,667	
SPECIAL LANDSCAPE AREAS									
VALVE NUMBER	IRRIGATION METHOD	PLANT WATER USE	PLANT FACTOR (PF)	IRRIGATION EFFICIENCY (IE)	LANDSCAPE AREA (SF)	ETAF (PF/IE)	ETAF x AREA	ETWU	
N/A	N/A	N/A	0	0.00	0	1.00	0.00	0	
TOTALS:				(C)	0	(D)	0.00	0	
					TOTAL AREA:	10,632			
					ETAF:	0.45	ETWU = (ETO x 0.62 x ETAF x AREA)		ETWU TOTAL: 76,667
					ETO:	35.10	MAWA = (ETO x 0.62 [(ETAF x LA) - (1 - ETAF) x SLA])		MAWA TOTAL: 104,118
*ETAF IS 0.55 FOR RESIDENTIAL APPLICATIONS AND 0.45 FOR COMMERCIAL APPLICATIONS.									
*TREE AREA IS CALCULATED BY THE AREA COVERED BY ROOT BALL IRRIGATION (28 SF EA.)									
							ETWU + MAWA		

A WATER EFFICIENT LANDSCAPE WORKSHEET  
NO SCALE

SELF STORAGE FACILITY - PRELIMINARY LANDSCAPE PLAN

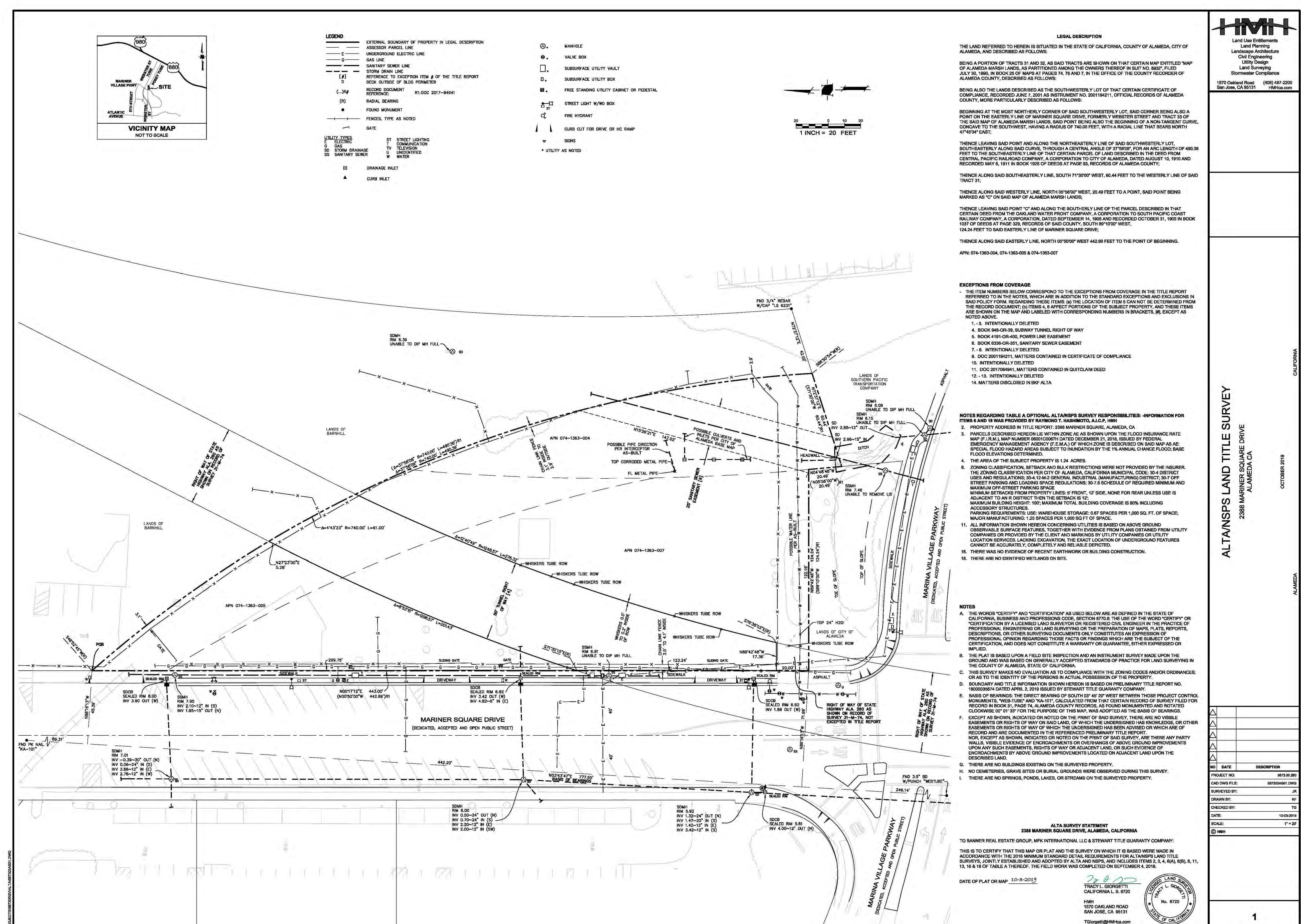
2390 MARINER SQUARE DRIVE, ALAMEDA, CA

PRELIMINARY IRRIGATION PLAN L3

FEBRUARY 04, 2020







**HMH**  
Land Use Entitlements  
Land Planning  
Landscape Architecture  
Civil Engineering  
Utility Design  
Land Surveying  
Stormwater Compliance

1570 Oakland Road  
San Jose, CA 95131 (408) 487-2200  
hmh-ca.com

**ALTANSPS LAND TITLE SURVEY**  
2388 MARINER SQUARE DRIVE  
ALAMEDA, CA

CALIFORNIA  
OCTOBER 2019  
ALAMEDA

**LEGAL DESCRIPTION**

THE LAND REFERRED TO HEREIN IS SITUATED IN THE STATE OF CALIFORNIA, COUNTY OF ALAMEDA, CITY OF ALAMEDA, AND DESCRIBED AS FOLLOWS:

BEING A PORTION OF TRACTS 31 AND 32, AS SAID TRACTS ARE SHOWN ON THAT CERTAIN MAP ENTITLED "MAP OF ALAMEDA MARSH LANDS, AS PARTITIONED AMONG THE OWNERS THEREOF BY SUT NO. 8827, FILED JULY 30, 1989, IN BOOK 28 OF MAPS AT PAGES 74, 75 AND 7, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, DESCRIBED AS FOLLOWS:

BEING ALSO THE LANDS DESCRIBED AS THE SOUTH-WESTERLY LOT OF THAT CERTAIN CERTIFICATE OF COMPLIANCE, RECORDED JUNE 7, 2001 AS INSTRUMENT NO. 2001194211, OFFICIAL RECORDS OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST NORTH-WESTLY CORNER OF SAID SOUTH-WESTERLY LOT, SAID CORNER BEING ALSO A POINT ON THE EAST-ERLY LINE OF MARINER SQUARE DRIVE, FORMERLY WESTER STREET AND TRACT 33 OF THE SAID MAP OF ALAMEDA MARSH LANDS, SAID POINT BEING ALSO THE BEGINNING OF A NON-TANGENT CURVE, CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 740.00 FEET, WITH A RADIAL LINE THAT BEARS NORTH 47°49'34" EAST;

THENCE LEAVING SAID POINT AND ALONG THE NORTHEAST-ERLY LINE OF SAID SOUTH-WESTERLY LOT, SOUTH-EAST-ERLY ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 37°58'08", FOR AN ARC LENGTH OF 490.38 FEET TO THE SOUTHEAST-ERLY LINE OF THAT CERTAIN PARCEL OF LAND DESCRIBED IN THE DEED FROM CENTRAL PACIFIC RAILROAD COMPANY, A CORPORATION TO CITY OF ALAMEDA, DATED AUGUST 10, 1910 AND RECORDED MAY 6, 1911 IN BOOK 1925 OF DEEDS AT PAGE 83, RECORDS OF ALAMEDA COUNTY;

THENCE ALONG SAID SOUTHEAST-ERLY LINE, SOUTH 71°30'00" WEST, 60.44 FEET TO THE WEST-ERLY LINE OF SAID TRACT 31;

THENCE ALONG SAID WEST-ERLY LINE, NORTH 55°56'00" WEST, 20.46 FEET TO A POINT, SAID POINT BEING MARKED AS "C" ON SAID MAP OF ALAMEDA MARSH LANDS;

THENCE LEAVING SAID POINT "C" AND ALONG THE SOUTH-ERLY LINE OF THE PARCEL DESCRIBED IN THAT CERTAIN DEED FROM THE OAKLAND WATER FRONT COMPANY, A CORPORATION TO SOUTH PACIFIC COAST RAILWAY COMPANY, A CORPORATION, DATED SEPTEMBER 14, 1905 AND RECORDED OCTOBER 31, 1905 IN BOOK 1107 OF DEEDS AT PAGE 329, RECORDS OF SAID COUNTY, SOUTH 84°10'00" WEST, 124.24 FEET TO SAID EAST-ERLY LINE OF MARINER SQUARE DRIVE;

THENCE ALONG SAID EAST-ERLY LINE, NORTH 00°50'00" WEST 442.80 FEET TO THE POINT OF BEGINNING.

APN 074-1363-004, 074-1363-005 & 074-1363-007

**EXCEPTIONS FROM COVERAGE**

THE ITEM NUMBERS BELOW CORRESPOND TO THE EXCEPTIONS FROM COVERAGE IN THE TITLE REPORT REFERRED TO IN THE NOTES, WHICH ARE IN ADDITION TO THE STANDARD EXCEPTIONS AND EXCLUSIONS IN SAID POLICY FORM. REGARDING THESE ITEMS: (a) THE LOCATION OF ITEM 8 CAN NOT BE DETERMINED FROM THE RECORD DOCUMENT; (b) ITEMS 4, 6 AFFECT PORTIONS OF THE SUBJECT PROPERTY, AND THESE ITEMS ARE SHOWN ON THE MAP AND LABELED WITH CORRESPONDING NUMBERS IN BRACKETS, (c) EXCEPT AS NOTED ABOVE:

1. - 3. INTENTIONALLY DELETED
4. BOOK 944-OR-39, SUBWAY TUNNEL RIGHT OF WAY
5. BOOK 4191-OR-400, POWER LINE EASEMENT
6. BOOK 6335-OR-351, SANITARY SEWER EASEMENT
7. - 8. INTENTIONALLY DELETED
9. DOC 2001194211, MATTERS CONTAINED IN CERTIFICATE OF COMPLIANCE
10. INTENTIONALLY DELETED
11. DOC 2017084941, MATTERS CONTAINED IN QUITCLAIM DEED
12. - 13. INTENTIONALLY DELETED
14. MATTERS DISCLOSED IN BRF ALTA

**NOTES REGARDING TABLE A OPTIONAL ALTANSPS SURVEY RESPONSIBILITIES - INFORMATION FOR ITEMS 6 AND 18 WAS PROVIDED BY RAYMOND T. HASHIMOTO, A.L.C.P., H.M.H.**

1. PROPERTY ADDRESS IN TITLE REPORT: 2388 MARINER SQUARE, ALAMEDA, CA
2. PARCELS DESCRIBED HEREON LIE WITHIN ZONE AE AS SHOWN UPON THE FLOOD INSURANCE RATE MAP (F.I.R.M.), MAP NUMBER 060710007H DATED DECEMBER 21, 2016, ISSUED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) OF WHICH ZONE IS DESCRIBED ON SAID MAP AS AE SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD; BASE FLOOD ELEVATIONS DETERMINED.
3. THE AREA OF THE SUBJECT PROPERTY IS 1.24 ACRES.
4. ZONING CLASSIFICATION, SETBACK AND BULK RESTRICTIONS WERE NOT PROVIDED BY THE INSURER. THE ZONING CLASSIFICATION PER CITY OF ALAMEDA, CALIFORNIA MUNICIPAL CODE 30-4 DISTRICT USES AND REGULATIONS: 30-4-10-2 GENERAL INDUSTRIAL (MANUFACTURING) DISTRICT; 30-7 OFF STREET PARKING AND LOADING SPACE REGULATIONS: 30-7-5 SCHEDULE OF REQUIRED MINIMUM AND MAXIMUM OFF-STREET PARKING SPACE
5. MINIMUM SETBACKS FROM PROPERTY LINES: 5' FRONT, 12' SIDE, NONE FOR REAR UNLESS USE IS ADJACENT TO AN R DISTRICT THEN THE SETBACK IS 12'.
6. MAXIMUM BUILDING HEIGHT: 100'; MAXIMUM TOTAL BUILDING COVERAGE IS 80% INCLUDING ACCESSORY STRUCTURES.
7. PARKING REQUIREMENTS: USE: WAREHOUSE STORAGE: 0.67 SPACES PER 1,000 SQ. FT. OF SPACE; MAJOR MANUFACTURING: 1.25 SPACES PER 1,000 SQ. FT. OF SPACE.
8. ALL INFORMATION SHOWN HEREON CONCERNING UTILITIES IS BASED ON ABOVE GROUND OBSERVABLE SURFACE FEATURES, TOGETHER WITH EVIDENCE FROM PLANS OBTAINED FROM UTILITY COMPANIES OR PROVIDED BY THE CLIENT AND MARKINGS BY UTILITY COMPANIES OR UTILITY LOCATION SERVICES. LACKING EVIDENCE, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED.
9. THERE WAS NO EVIDENCE OF RECENT EARTHWORK OR BUILDING CONSTRUCTION.
10. THERE ARE NO IDENTIFIED WETLANDS ON SITE.

**NOTES**

A. THE WORDS "CERTIFY" AND "CERTIFICATION" AS USED BELOW ARE AS DEFINED IN THE STATE OF CALIFORNIA, BUSINESS AND PROFESSIONS CODE, SECTION 8720.6: THE USE OF THE WORD "CERTIFY" OR "CERTIFICATION" BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER IN THE PRACTICE OF PROFESSIONAL ENGINEERING OR LAND SURVEYING OR THE PREPARATION OF MAPS, PLATS, REPORTS, DESCRIPTIONS, OR OTHER SURVEYING DOCUMENTS ONLY CONSTITUTES AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THOSE FACTS OR FINDINGS WHICH ARE THE SUBJECT OF THE CERTIFICATION, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.

B. THE PLAT IS BASED UPON A FIELD SITE INSPECTION AND AN INSTRUMENT SURVEY MADE UPON THE GROUND AND WAS BASED ON GENERALLY ACCEPTED STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE COUNTY OF ALAMEDA, STATE OF CALIFORNIA.

C. THIS SURVEY MAKES NO EVALUATION AS TO COMPLIANCE WITH THE ZONING CODES AND/OR ORDINANCES; OR AS TO THE IDENTITY OF THE PERSONS IN ACTUAL POSSESSION OF THE PROPERTY.

D. BOUNDARY AND TITLE INFORMATION SHOWN HEREON IS BASED ON PRELIMINARY TITLE REPORT NO. 1800030574 DATED APRIL 2, 2019 ISSUED BY STEWART TITLE GUARANTY COMPANY.

E. BASIS OF BEARINGS: THE DIRECT BEARING OF SOUTH 03° 45' 20" WEST BETWEEN THOSE PROJECT CONTROL MONUMENTS, "WEBB-TUBE" AND "KA-101", CALCULATED FROM THAT CERTAIN RECORD OF SURVEY FILED FOR RECORD IN BOOK 31, PAGE 74, ALAMEDA COUNTY RECORDS, AS FOUND MONUMENTED AND NOTATED CLOCKWISE 00° 01' 33" FOR THE PURPOSE OF THIS MAP, WAS ADOPTED AS THE BASIS OF BEARINGS.

F. EXCEPT AS SHOWN, INDICATED OR NOTED ON THE PRINT OF SAID SURVEY, THERE ARE NO VISIBLE EASEMENTS OR RIGHTS OF WAY ON SAID LAND, OF WHICH THE UNDERSIGNED HAS KNOWLEDGE, OR OTHER EASEMENTS OR RIGHTS OF WAY OF WHICH THE UNDERSIGNED HAS BEEN ADVISED OR WHICH ARE OF RECORD AND ARE DOCUMENTED IN THE REFERENCED PRELIMINARY TITLE REPORT.

G. NOR, EXCEPT AS SHOWN, INDICATED OR NOTED ON THE PRINT OF SAID SURVEY, ARE THERE ANY PARTY WALLS, VISIBLE EVIDENCE OF ENCROACHMENTS OR OVERHANGS OF ABOVE-GROUND IMPROVEMENTS UPON ANY SUCH EASEMENTS, RIGHTS OF WAY OR ADJACENT LAND, OR SUCH EVIDENCE OF ENCROACHMENTS BY ABOVE-GROUND IMPROVEMENTS LOCATED ON ADJACENT LAND UPON THE DESCRIBED LAND.

H. THERE ARE NO BUILDINGS EXISTING ON THE SURVEYED PROPERTY.

I. NO CEMETERIES, GRAVE SITES OR BURIAL GROUNDS WERE OBSERVED DURING THIS SURVEY.

J. THERE ARE NO SPRINGS, PONDS, LAKES, OR STREAMS ON THE SURVEYED PROPERTY.

**ALTA SURVEY STATEMENT**  
2388 MARINER SQUARE DRIVE, ALAMEDA, CALIFORNIA

TO BANNER REAL ESTATE GROUP, MPK INTERNATIONAL LLC & STEWART TITLE GUARANTY COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTANSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 6(A), 6(B), 8, 11, 13, 16 & 18 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON SEPTEMBER 4, 2019.

DATE OF PLAT OR MAP: 10-3-2019

TRACY L. GIORGETTI  
CALIFORNIA L.S. 8720

HMH  
1570 OAKLAND ROAD  
SAN JOSE, CA 95131  
TGorgetti@hmh-ca.com

NO.	DATE	DESCRIPTION
PROJECT NO.	0973.00.280	
CAD DWG FILE:	097300A01.DWG	
SURVEYED BY:	JR	
DRAWN BY:	RF	
CHECKED BY:	TD	
DATE:	10-03-2019	
SCALE:	1" = 20'	
© HMH		
1	OF 1	

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**2390  
MARINER  
SQUARE  
DRIVE**

ALAMEDA, CALIFORNIA 94501

PLAT OF SURVEY

NORTH

**A0-0**







ZONING DATA						
Project Address		2390 Mariner Square Drive   Alameda, California 94501			S U L L I V A N G O U L E T T E & W I L S O N A R C H I T E C T S	
Local Zoning Ordinance		City of Alameda Zoning Ordinance				
Last Updated		2/7/2020				
LOCATION		Existing Zoning	Proposed Zoning	Variances	Proposed Project Scheme 1	
Zoning District		M-2 General Industrial	M-2 General Industrial		M-2 General Industrial	
Use Group		Storage Yard	*Household Goods Storage and Moving, Warehouse and Storage Facilities		*Household Goods Storage and Moving, Warehouse and Storage Facilities	
Lot Area [SF]		54,141.6	54,141.6		54,141.6	
BULK & DENSITY						
Maximum Floor Area Ratio [F.A.R.]		N/A	N/A		Actual Ratio [F.A.R.]	2.0
Maximum Area Allowed by F.A.R.		N/A	N/A		Actual Area [F.A.R.]	110,844.0
Maximum Building Coverage [% ]		80%	80%		Actual Lot Coverage [%]	34%
Maximum Building Coverage [SF]		43,313.3	43,313.3		Actual Lot Coverage [SF]	18,474.0
Required Setbacks [ft]	Front (@ ROW)	5'-0"	5'-0"		Proposed	Varies, 27'-11" min.
	Side (@ ROW)	0'-0"	0'-0"		Proposed	15'-10"
	Side (@ Abutting Lot)	0'-0"	0'-0"		Proposed	Varies, 175'-1" min.
	Rear (@ Abutting Lot)	0'-0"	0'-0"		Proposed	Varies, 0'-0" min.
Maximum Building Height [ft]		100'-0"	100'-0"		Proposed	72'-4"
PARKING/LOADING						
Required Off Street Parking Spaces		30-7.6	.67 per 1,000 SF	.67 per 1,000 SF = 75 Spaces	X	Provided 5.0
Required Accessible Parking Spaces		CBC 2-11B	1 per 25 spaces	1 per 25 spaces	X	Provided 1.0
Required Off Street Loading		30-7.14	(1) 10' x 40' x 14' space	(1) 10' x 40' x 14' space		Provided 2.0
Required Bicycle Parking		30-7.15	1 per 8,000 SF Short Term - 2 Spaces	1 per 8,000 SF Short Term - 2 Spaces	X	Provided 2.0
Public Parking Spaces					Provided	14 Existing Spaces + 9 New Spaces = 23 Parking Spaces
LANDSCAPING						
Landscape Requirements	Street	5'-0" landscape buffer from public street and sidewalk	5'-0" landscape buffer from public street and sidewalk		Provided	5'-0"
	Site	1 tree per 4 parking spaces	1 tree per 4 parking spaces		Provided	4.0
	Parking Areas	1'-0" of landscaped separation is required from parking backup area, walls, fences, buildings and property lines	1'-0" of landscaped separation is required from parking backup area, walls, fences, buildings and property lines		Provided	1'-0"
Signs	Location	Wall Sign	Wall Sign		Provided	Wall & Monument Sign
	Quantity	1 per business frontage	1 per business frontage		Provided	5 - see sign package
	Size	Min. 25 SF Max. 150 SF	Min. 25 SF Max. 150 SF		Provided	Min 3.6 SF, Max 50 SF
	Height	Below parapet line	Below parapet line		Provided	64'-4"
Trash Area Screening Required		Required	Required		Provided	Trash Enclosure
ADDITIONAL						
Architectural Standards		Yes	Yes			
Flood Zone/Criteria		AE	AE			
Easements		Yes - see survey	Yes - see survey			
Notes:						
*Household goods storage and moving, warehouses and storage facilities are permitted uses in an CM, M1 and M2 Zones.						



3	02/07/20	CITY OF ALAMEDA REVIEW
2	01/03/20	CITY OF ALAMEDA REVIEW
1	10/09/19	CITY OF ALAMEDA REVIEW
NO	DATE	ISSUE DESCRIPTION

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PRINCIPAL: MSXX  
QC BY: DC XX

F.M.: CM & MSXX  
DRAWN BY: JMWX

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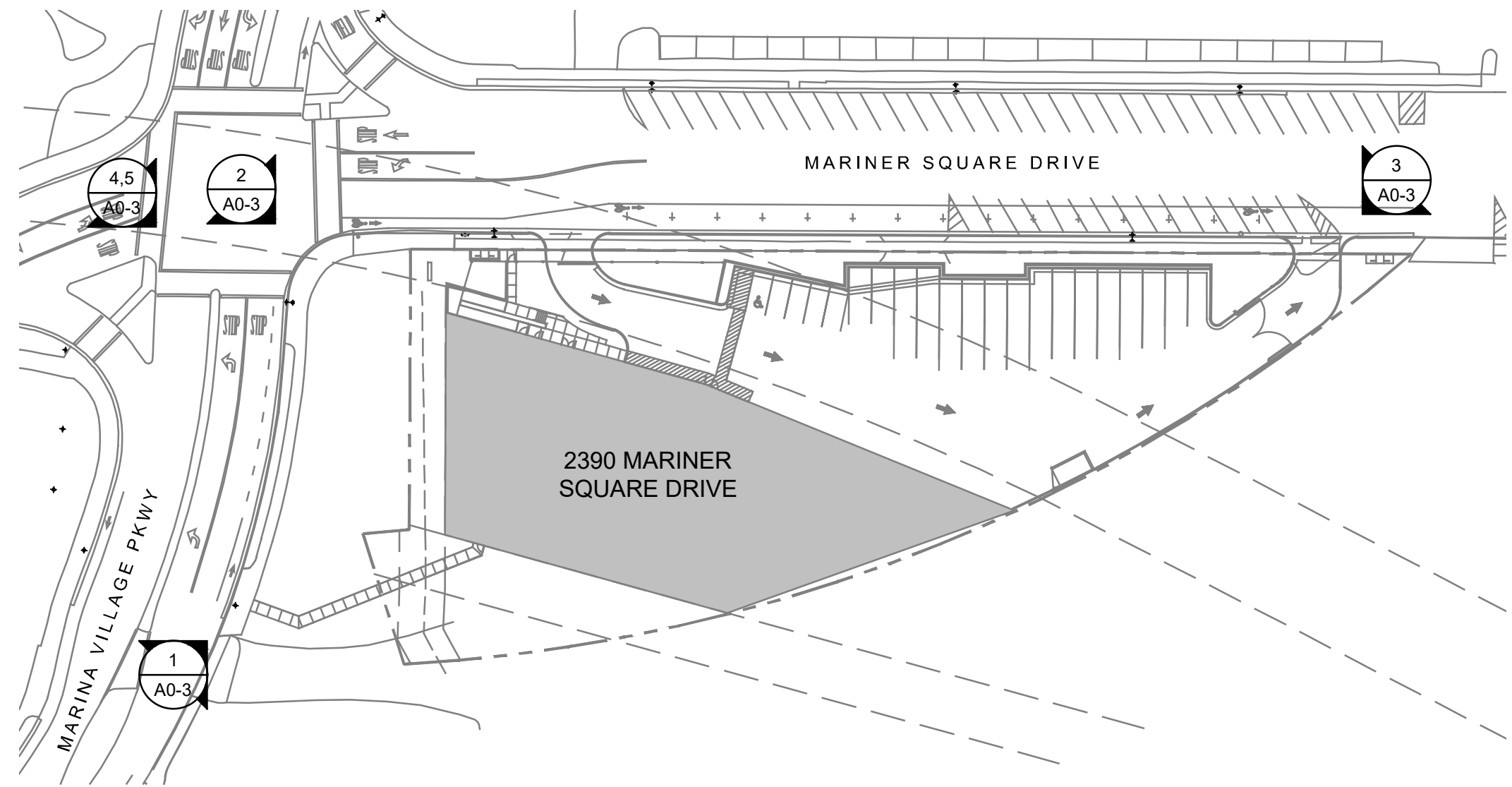
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ZONING MAP &  
ZONING DATA

NORTH

A0-2





6 SITE KEY MAP  
SCALE: 1" = 60'-0"



5 AFTER AERIAL IMAGE  
SCALE: N.T.S.



4 BEFORE AERIAL IMAGE  
SCALE: N.T.S.



3 LOOKING SOUTH EAST  
ON MARINER SQUARE DR  
SCALE: N.T.S.



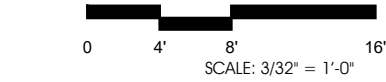
2 LOOKING NORTH EAST  
ON MARINA VILLAGE PKWY  
SCALE: N.T.S.



1 LOOKING NORTH WEST  
ON MARINA VILLAGE PKWY  
SCALE: N.T.S.

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<small>CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.</small>		
<small>PRINCIPAL: MDX QC BY: DC XX</small>		
<small>P.M.: CM &amp; MDX DRAWN BY: JMWX</small>		
<b>SULLIVAN GOULETTE &amp; WILSON</b> ARCHITECTS 444 N MICHIGAN AVE SUITE 1850 CHICAGO, IL 60611 Ph 312.988.7412 Fx 312.988.7409 www.sgwatch.com		
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SITE PHOTOGRAPHS		
	A0-3	





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QC BY: DC

P.M.: CM & MA  
DRAWN BY: JW

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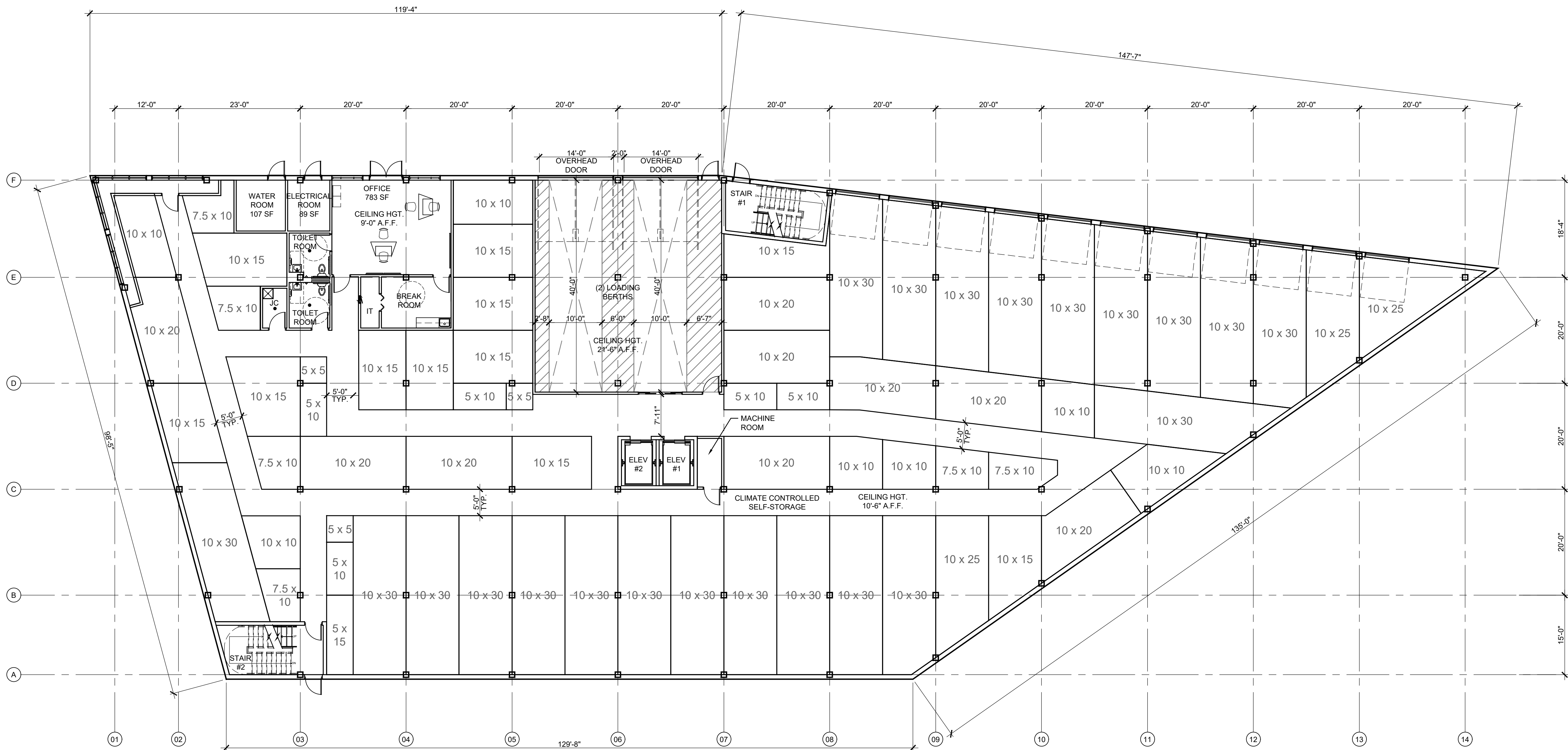
**2390  
MARINER  
SQUARE  
DRIVE**

ALAMEDA, CALIFORNIA 94501

FLOOR PLAN

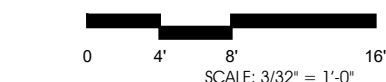


A1-1



**1 FIRST FLOOR PLAN**  
SCALE: 3/32" = 1'-0"





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QC BY: DC

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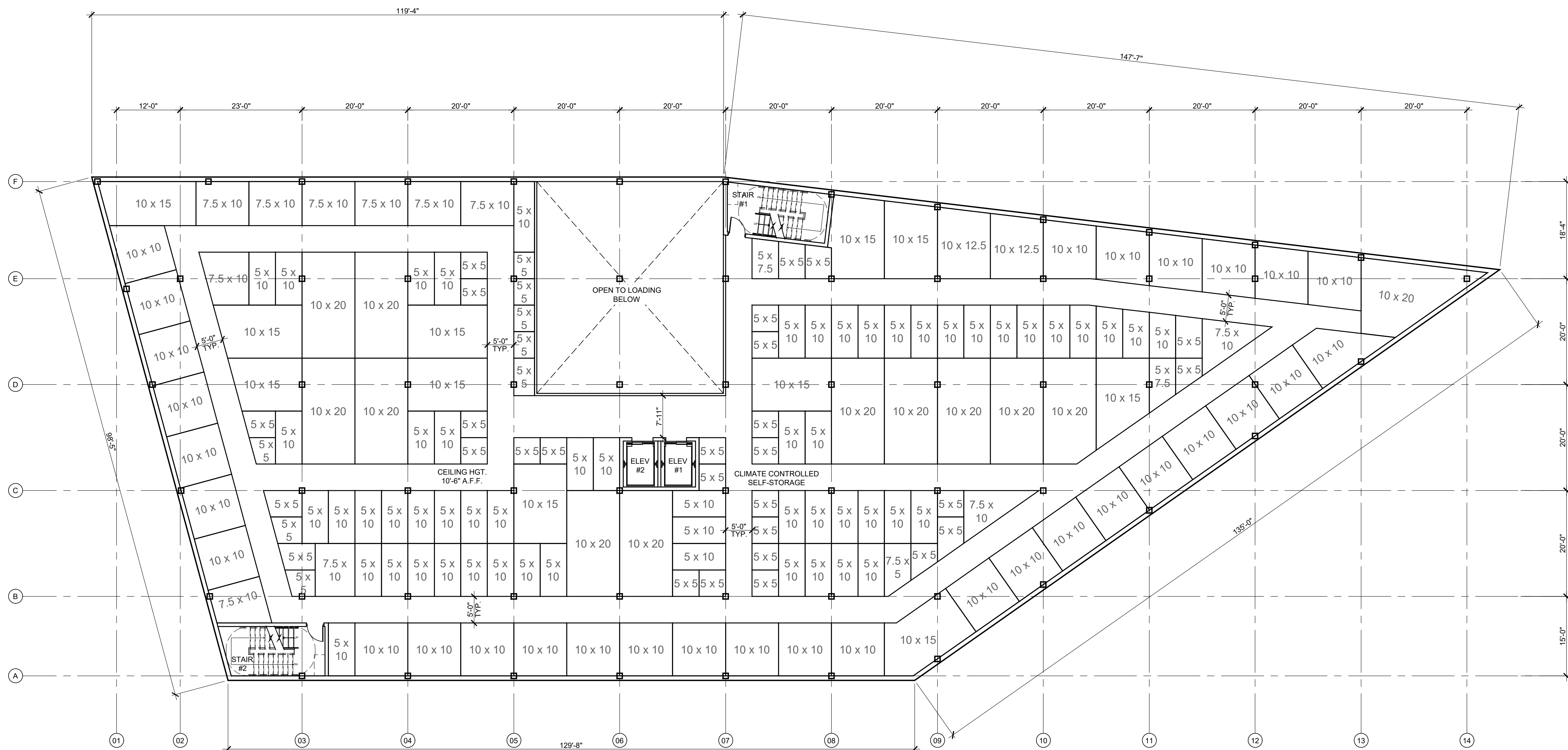
**2390  
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DRIVE**

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### FLOOR PLAN

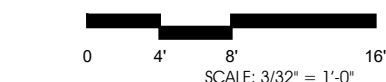


A1-2



1 SECOND FLOOR PLAN  
SCALE: 3/32" = 1'-0"





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THAN ORIGINALLY DRAWN. OWNER AND ARCHITECT ASSUME NO  
RESPONSIBILITY FOR USE OF INCORRECT SCALE.

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QC BY: DC

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SQUARE  
DRIVE**

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### FLOOR PLAN

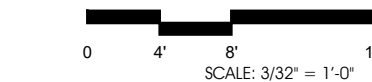


A1-3



1 THIRD & FOURTH FLOOR PLAN  
SCALE: 3/32" = 1'-0"





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QC BY: DC

P.M.: CM &amp; P

P.M.: CM & P  
DRAWN BY: J

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### FLOOR PLAN

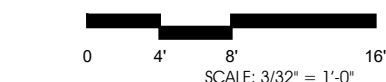


A1-4



**1 FIFTH FLOOR PLAN**  
SCALE: 3/32" = 1'-0"





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### FLOOR PLAN



A1-5



1 SIXTH FLOOR PLAN  
SCALE: 3/32" = 1'-0"



Firestone  
Firestone Building Products

TECHNICAL INFORMATION SHEET

UltraPly™ TPO XR Membrane

Item Description

UltraPly TPO XR 100 (45 mil)

• White Membrane

• Tan Membrane

• Gray Membrane

UltraPly TPO XR 115 (60 mil)

• White Membrane

• Tan Membrane

• Gray Membrane

Item Number

W56TXR3099

W56TXR1099

W56TXRG099

W56TXR3699

W56TXR1699

W56TXRG699

Meets or exceeds ASTM D 6878

Product Information

Description:

Firestone UltraPly TPO XR Membrane is a flexible Thermoplastic Polyolefin (TPO) roofing membrane that is produced with polyester well-inerted reinforcement and an 8-ounce polyester fleece backing. UltraPly TPO XR Membrane meets or exceeds all requirements for ASTM D 6878 Specification. This heat weldable UltraPly TPO membrane is available in 45 mil (1.14 mm) and 60 mil (1.52 mm) thicknesses. This membrane is ideal for a variety of new or re-roofing applications.

Method of Application:

1. Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane.

2. All rough surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.

3. All surface voids greater than 1/8" (6.3 mm) wide shall be properly filled with an acceptable fill material.

4. UltraPly TPO XR membrane may be fully adhered using Firestone XR Bonding Adhesive, I.S.O.Spray™ R Insulation Adhesive or hot asphalt; or adhered in adhesive beads using XR Stick™ Adhesive. UltraPly TPO XR Membrane can also be mechanically attached.

Storage:

• Store away from sources of punctures and physical damage.

• Assume that structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.

• Store away from ignition sources as membrane will burn when exposed to open flame.

Precautions:

• Review Safety Data Sheets (SDS) for safety information.

• Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage.

• Contact your Firestone Technical Services Advisor at 1-800-428-4511 for specific recommendations regarding chemical or waste product compatibility with Firestone UltraPly TPO XR Membrane.

LEED® Information:

Post-Consumer Recycled Content: 0%

Post Industrial Recycled Content: 15%

Manufacturing Location: Tuscumbia, AL

\*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.

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Firestone  
Firestone Building Products

TECHNICAL INFORMATION SHEET

UltraPly™ TPO XR Membrane

Typical Properties (Meets or exceeds ASTM D 6878 Specification)

Property	ASTM Standard	Performance Minimum	Typical Performance XR 100: 45 mil	Typical Performance XR 115: 60 mil
Overall Thickness	D 751	0.030" (1.0 mm)	0.045" (1.14 mm) ± 10%	0.060" (1.52 mm) ± 10%
Coating Over Scrim	D 7635	0.015" (0.38 mm)	0.017" (0.43 mm)	0.021" (0.53 mm)
Breaking Strength	D 751, Grab Method	220 lbf (979 N)	340 lbf (1,512 N)	390 lbf (1,735 N)
Elongation of Reinforcement Break	D 751, Grab Method	15%	25%	25%
Tearing Strength	D 751	55 lbf (245 N)	120 lbf (534 N)	120 lbf (534 N)
Brittleness Point	D 2137	-40 °F (-40 °C)	Pass	Pass
Ozone Resistance, No Cracks	D 1149	Pass (No Cracks)	Pass	Pass
Properties After Heat Aging (Retained Values) ASTM D 573-5376 h (224 days or 32 weeks) at 240 °F (116 °C)				
Breaking Strength	D 751, Grab Method	90% Minimum	> 90%	> 90%
Elongation at Break	D 751, Grab Method	90% minimum	> 90%	> 90%
Tearing Strength	D 751	60% minimum	> 60%	> 60%
Weight of Change	D 751	± 1% maximum	< 1%	< 1%
Linear Dimension Change	D 1204, 6 h at 158 °F (70 °C)	± 1% maximum	< 1%	< 1%
Water Absorption	D 471	± 3% maximum	< 3%	< 3%
Weather Resistance, 176 °F (80 °C) Black Panel, no cracking, crazing when wrapped around a 3" (76.2 mm) mandrel and inspected at 7X magnification	G 155	10,800 kJ/m² Minimum	> 60,000 kJ/m²	> 60,000 kJ/m²
Puncture Resistance	FTM 101C, Method 2031	---	---	---
Dynamic Puncture Resistance MD	D 5635	---	Pass (60 J)	Pass (65 J)
Dynamic Puncture Resistance CD	D 5635	---	Pass (55 J)	Pass (65 J)
Static Puncture Resistance	D 5602	---	Pass (25 kg)	Pass (25 kg)
Air Permeance (Material)	E 2178*	<0.004 ft³/ft² (0.02 L/(s·m²))	Pass	Pass

1. The ASTM 2178 values listed above are for the air permeance of the UltraPly TPO Membrane component only.  
2. When system design includes an air barrier, please consult your Firestone Technical Services Advisor for additional roof system securement enhancements.  
3. Consult the Designer / Architect, Code Agency or Authority Having Jurisdiction (AHJ) for requirements regarding the selection and use of an appropriate air barrier material, and its installation into the building envelope.

Firestone  
Firestone Building Products

TECHNICAL INFORMATION SHEET

UltraPly™ TPO XR Membrane

Product Sizes

Membrane Thickness – TPO XR 100: 0.045" (1.14 mm)	Membrane Thickness – TPO XR 115: 0.060" (1.52 mm)
Membrane Weight: 0.27 lb/ft² (1.3 kg/m²)	Membrane Weight: 0.32 lb/ft² (1.6 kg/m²)
Available Sizes	Available Colors
10' x 100' (3.0 m x 30.5 m)	White, Tan, Gray

Radiative Properties

Cool Roof Rating Council (CRRG): Initial / 3 yr	White	Tan	Gray
Solar Reflectance	0.79 / 0.68	0.61 / 0.55	0.34 / 0.34
Thermal Emittance	0.85 / 0.83	0.81 / 0.84	0.89 / 0.88
Solar Reflectance Index (SRI)	98 / 83	71 / 63	37 / 36
Rated Product ID	0008	0015	0032
Licensed Manufacturer ID	0608	0608	0608
Classification	Production Line	Production Line	Production Line

ENERGY STAR®: Initial / 3 yr

White	Tan	Gray	
Solar Reflectance	0.79 / 0.68*	---	---
Thermal Emittance	0.85 / 0.83	---	---

\* White membrane sample cleaned prior to age test.

LEED®

White	Tan	Gray	
Initial Solar Reflectance Index (SRI)	Pass (98)	---	---
3 yr Aged Solar Reflectance Index (SRI)	Pass (83)	---	---

CRRG

COOL ROOF RATING COUNCIL

ENERGY STAR

ENERGY STAR

ENERGY STAR is only valid in the United States

FIRESTONE

GREEN

The roof plan diagram illustrates the layout of a building's roof. It features a grid system with horizontal dimensions ranging from 12'-0" to 20'-0" and vertical dimensions from 15'-0" to 18'-4". Key elements include:

- SLOPE:** Indicated by arrows and labels for various roof sections.
- SOLAR READY AREA:** A hatched rectangular area representing 16% of the roof area.
- CONDENSERS, TYP.:** Multiple circular units arranged in rows.
- ELEVATOR OVERRUN:** A small rectangular structure with a sloped roof.
- WALKWAY PAD:** A rectangular area adjacent to the elevator overrun.
- ROOF DRAIN, TYP.:** A circular drain unit.
- ROOF HATCH:** A small square feature.

Dimensions and angles are specified throughout the plan, including a 119'-4" total width, a 147'-7" diagonal, and a 135'-0" diagonal. Slope angles of 5.86° and 1.35° are also noted.

1

ROOF PLAN  
SCALE: 3/32" = 1'-0"

0 4' 8' 16'

SCALE: 3/32" = 1'-0"

3

02/07/20

CITY OF ALAMEDA REVIEW

2

01/03/20

CITY OF ALAMEDA REVIEW

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10/09/19

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F.M.: CM & MA

DRAWN BY: JW

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ROOF PLAN

NORTH

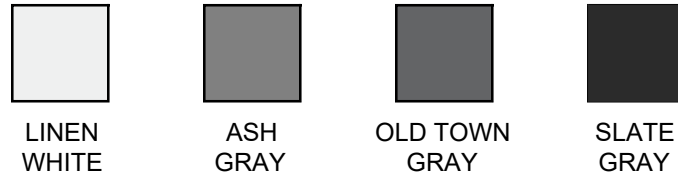
A1-6



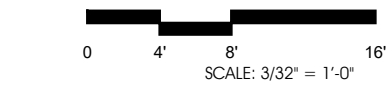
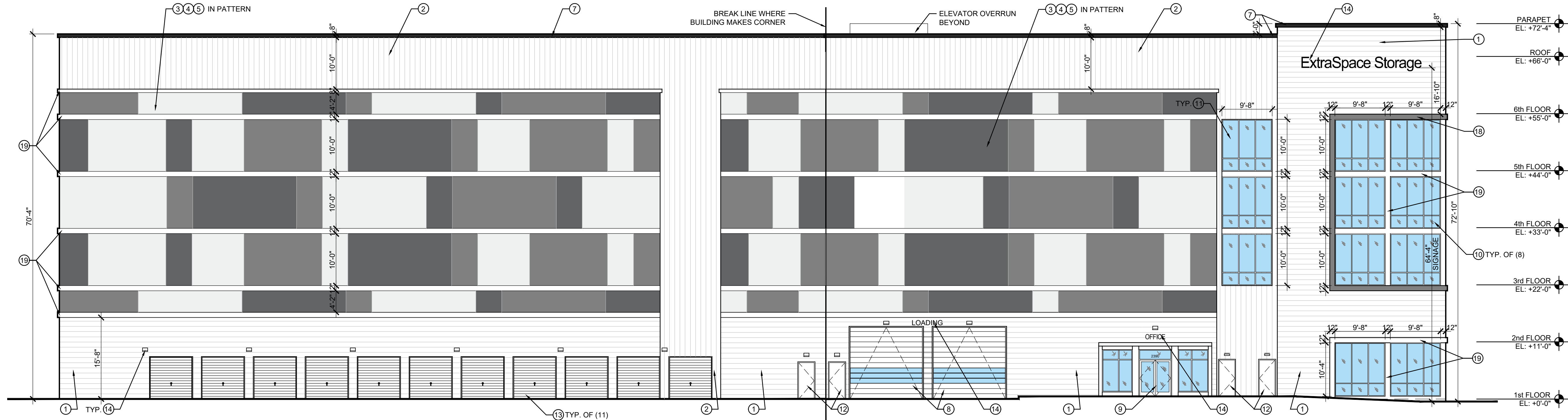
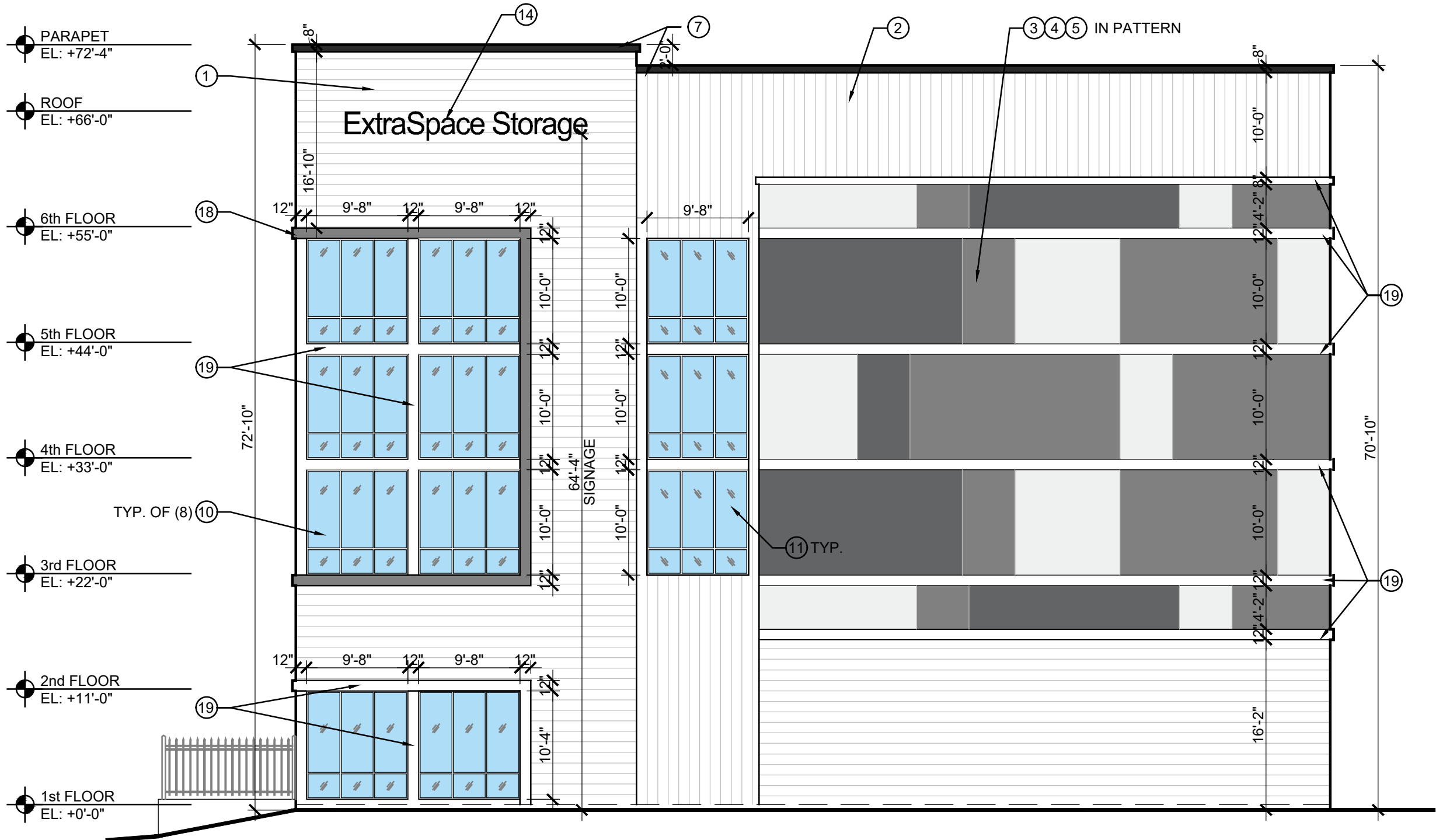
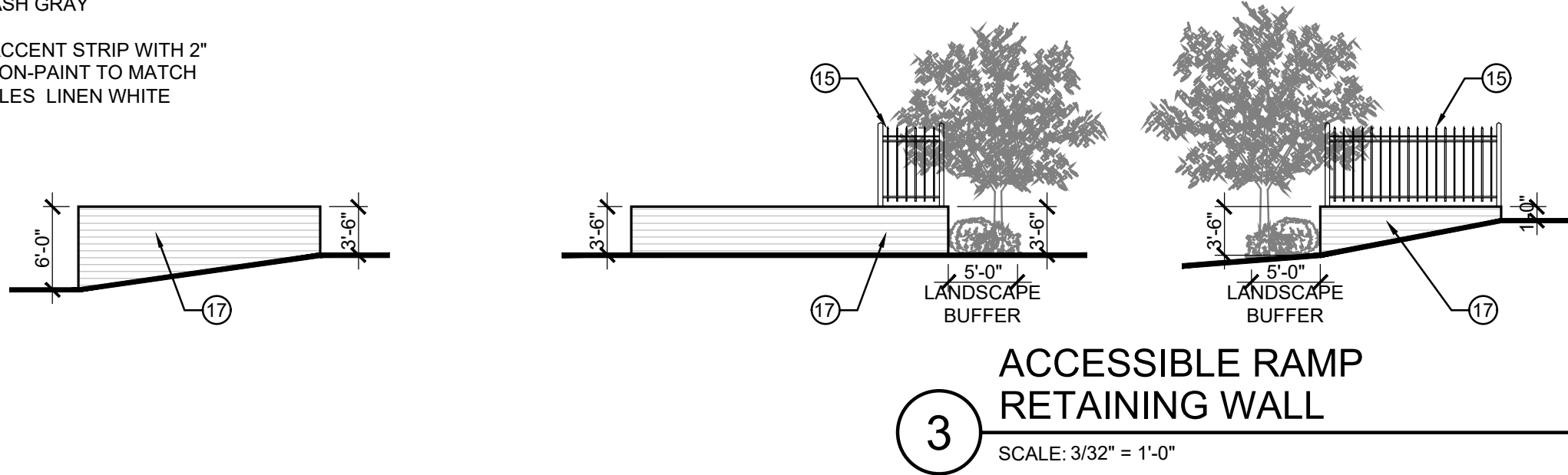
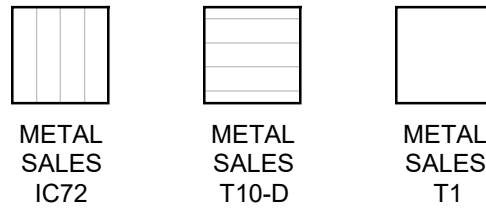
KEYNOTE LEGEND:

- ① METAL PANEL - METAL SALES T10-D  
HORIZONTAL METAL PANEL  
COLOR - LINEN WHITE
- ② METAL PANEL - METAL SALES IC72  
VERTICAL METAL PANEL  
COLOR - LINEN WHITE
- ③ METAL PANEL - METAL SALES T1  
VERTICAL METAL PANEL  
COLOR - LINEN WHITE
- ④ METAL PANEL - METAL SALES T1  
VERTICAL METAL PANEL  
COLOR - ASH GRAY
- ⑤ METAL PANEL - METAL SALES T1  
VERTICAL METAL PANEL  
COLOR - OLD TOWN GRAY
- ⑥ METAL PANEL - METAL SALES T1  
VERTICAL METAL PANEL  
COLOR - SLATE GRAY
- ⑦ ALUMINUM COPING  
COLOR - SLATE GRAY
- ⑧ RYTEC SPIRAL VT HIGH SPEED DOORS  
BLACK ANODIZED PROVIDED BY  
DOOR MANUFACTURER
- ⑨ ALUMINUM STOREFRONT SYSTEM  
BLACK ANODIZED
- ⑩ ALUMINUM DISPLAY WINDOWS  
BLACK ANODIZED
- ⑪ FAUX ALUMINUM WINDOWS  
BLACK ANODIZED
- ⑫ ALUMINUM SERVICE DOOR  
PAINTED WASABI GREEN
- ⑬ OVERHEAD DRIVE-UP DOORS  
PAINTED WASABI GREEN
- ⑭ SIGNAGE
- ⑮ WROUGHT IRON FENCE
- ⑯ LIGHT FIXTURE - RAB WPLED20  
SEE A4-2 FOR SPEC
- ⑰ DECORATIVE CONCRETE BLOCK  
RETAINING WALL
- ⑱ ALUMINUM TRIM  
COLOR - ASH GRAY
- ⑲ SHEET METAL ACCENT STRIP WITH 2"  
PROJECTION-PAINT TO MATCH  
METAL SALES LINEN WHITE

COLOR LEGEND:



MATERIAL LEGEND:



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QC BY: DC

P.M.: CM & MA  
DRAWN BY: JW

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ELEVATIONS

A2-1



[illegible]





A2-3





6 SHADOW PLAN: 8AM DEC 22  
SCALE: 3/32" = 1'-0"



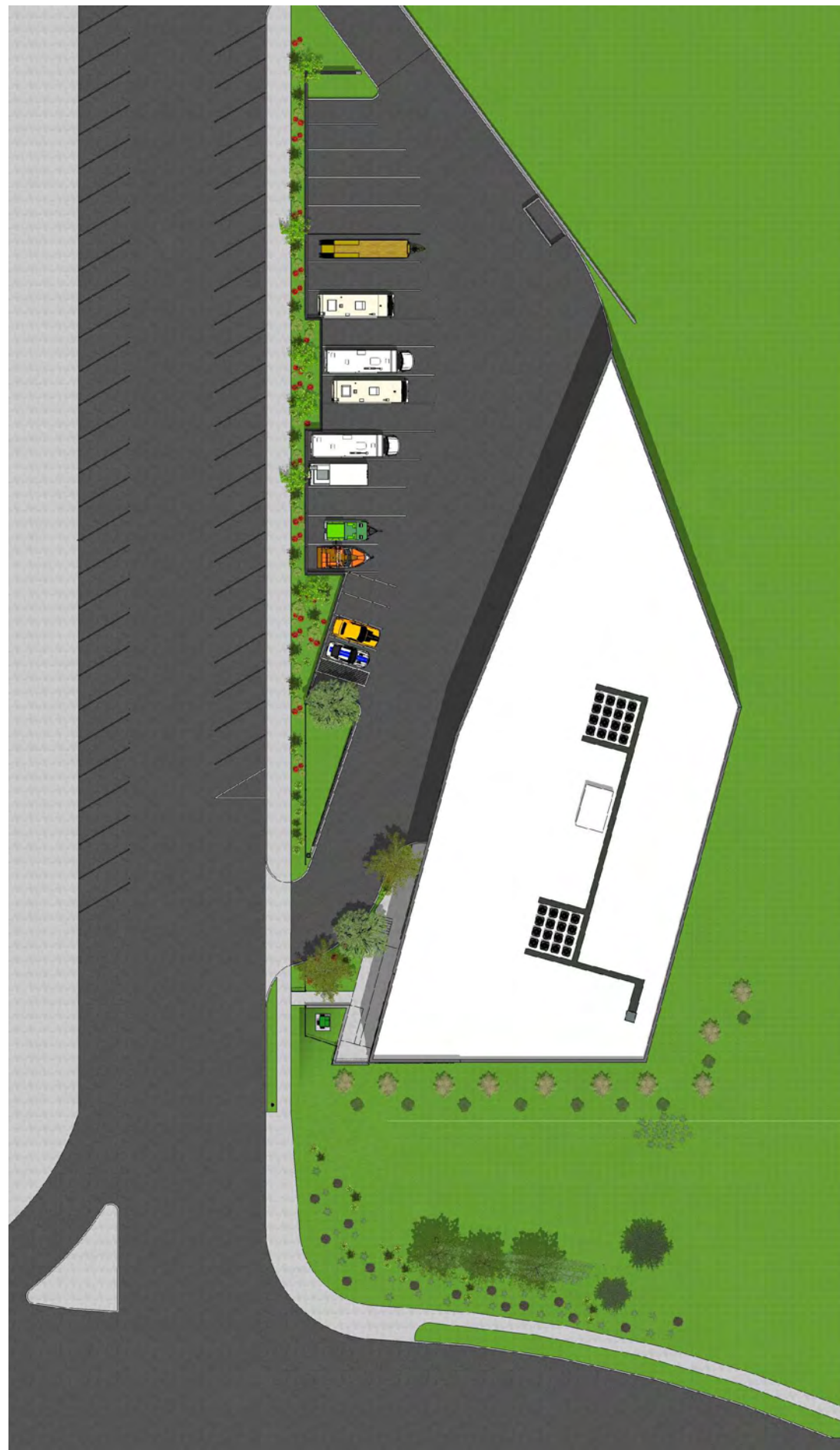
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SCALE: 3/32" = 1'-0"



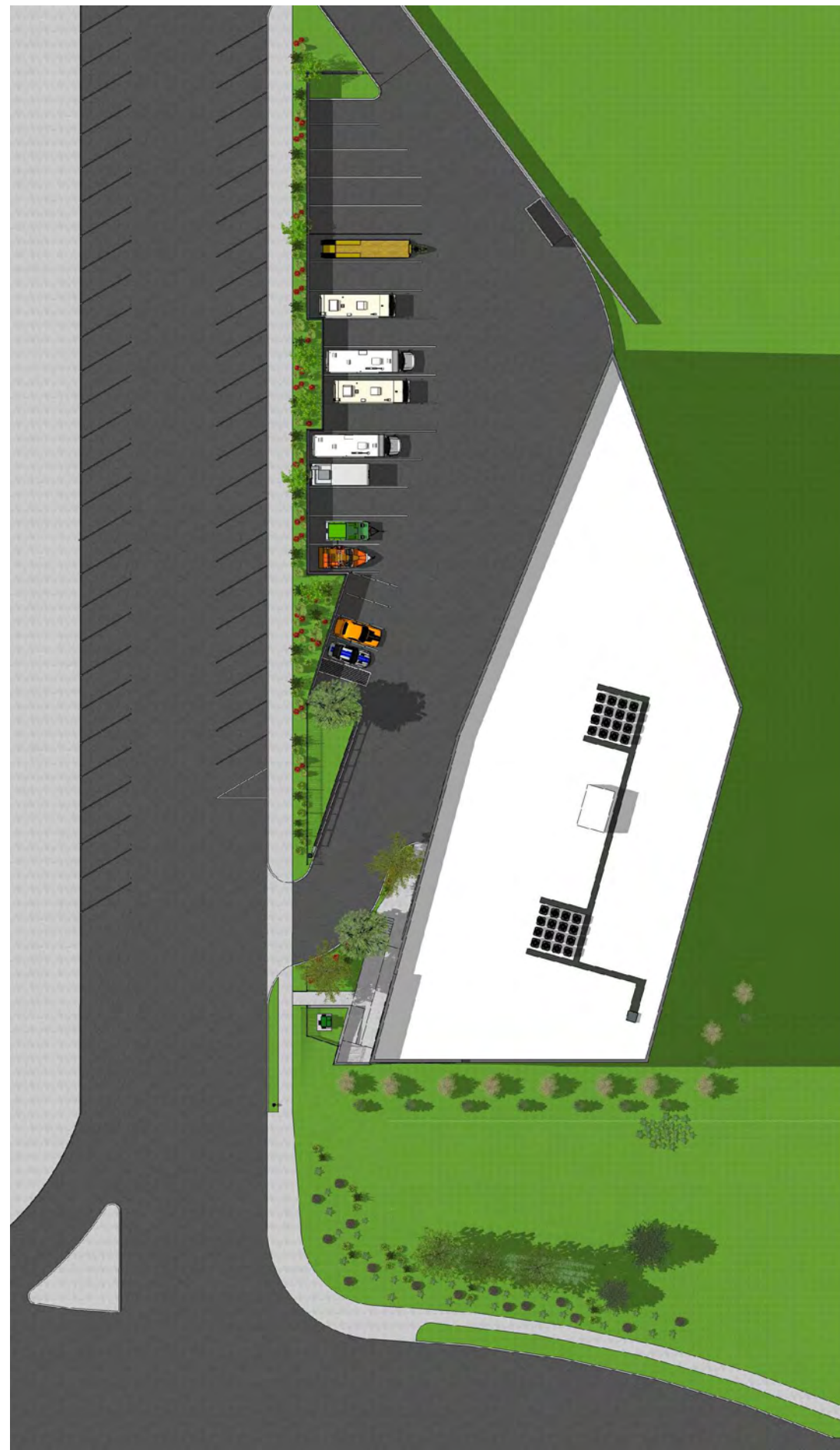
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SCALE: 3/32" = 1'-0"



3 SHADOW PLAN: 8AM JUNE 21  
SCALE: 3/32" = 1'-0"



2 SHADOW PLAN: NOON JUNE 21  
SCALE: 3/32" = 1'-0"



1 SHADOW PLAN: 4PM JUNE 21  
SCALE: 3/32" = 1'-0"

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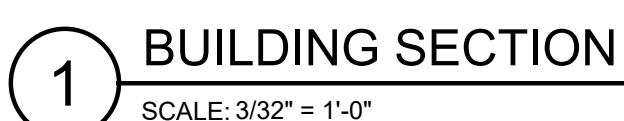
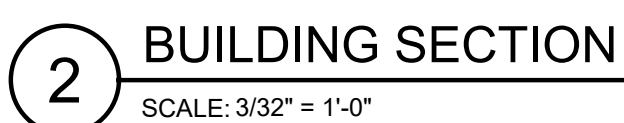
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SHADOW STUDY

A2-4





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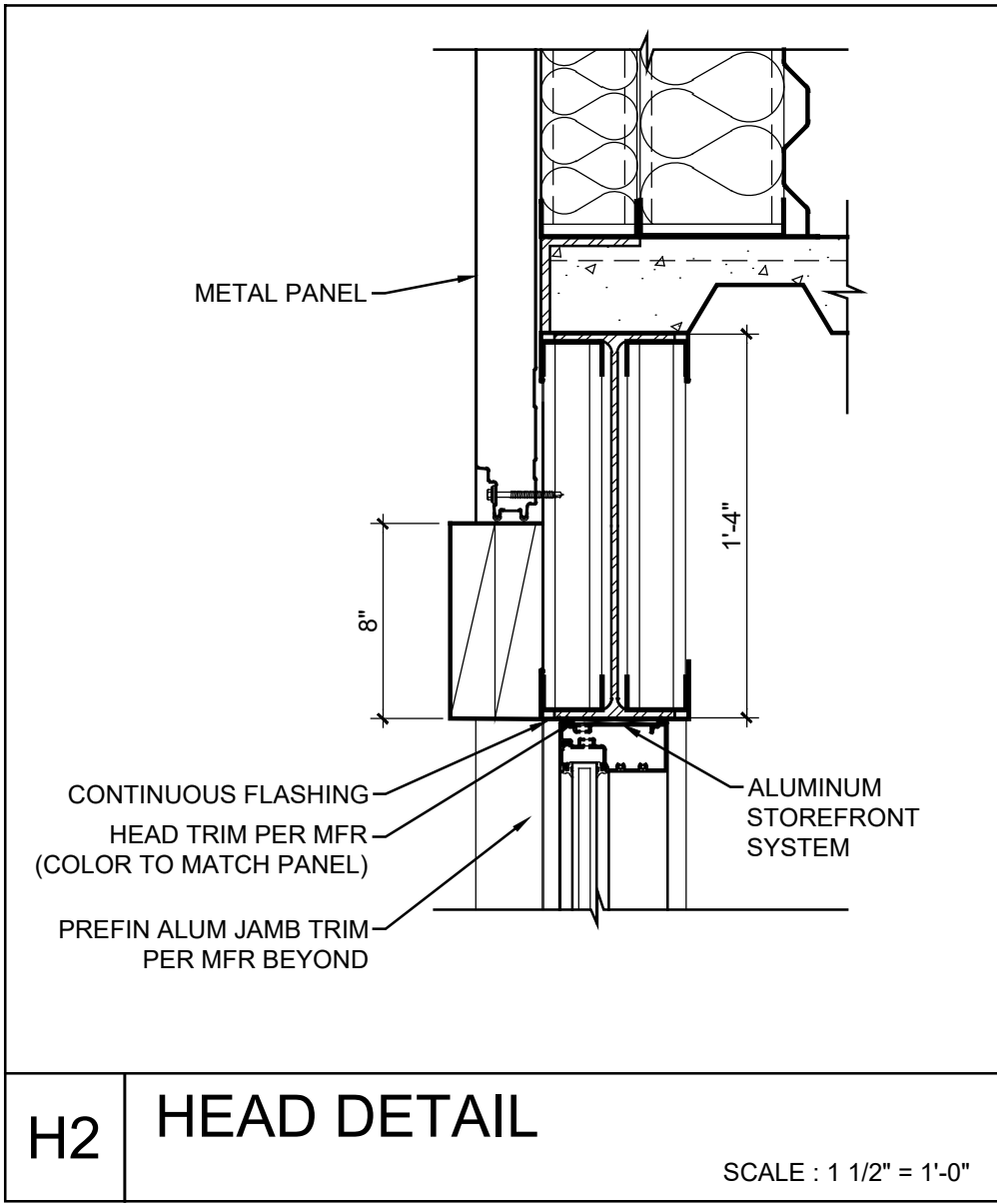
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BUILDING SECTIONS

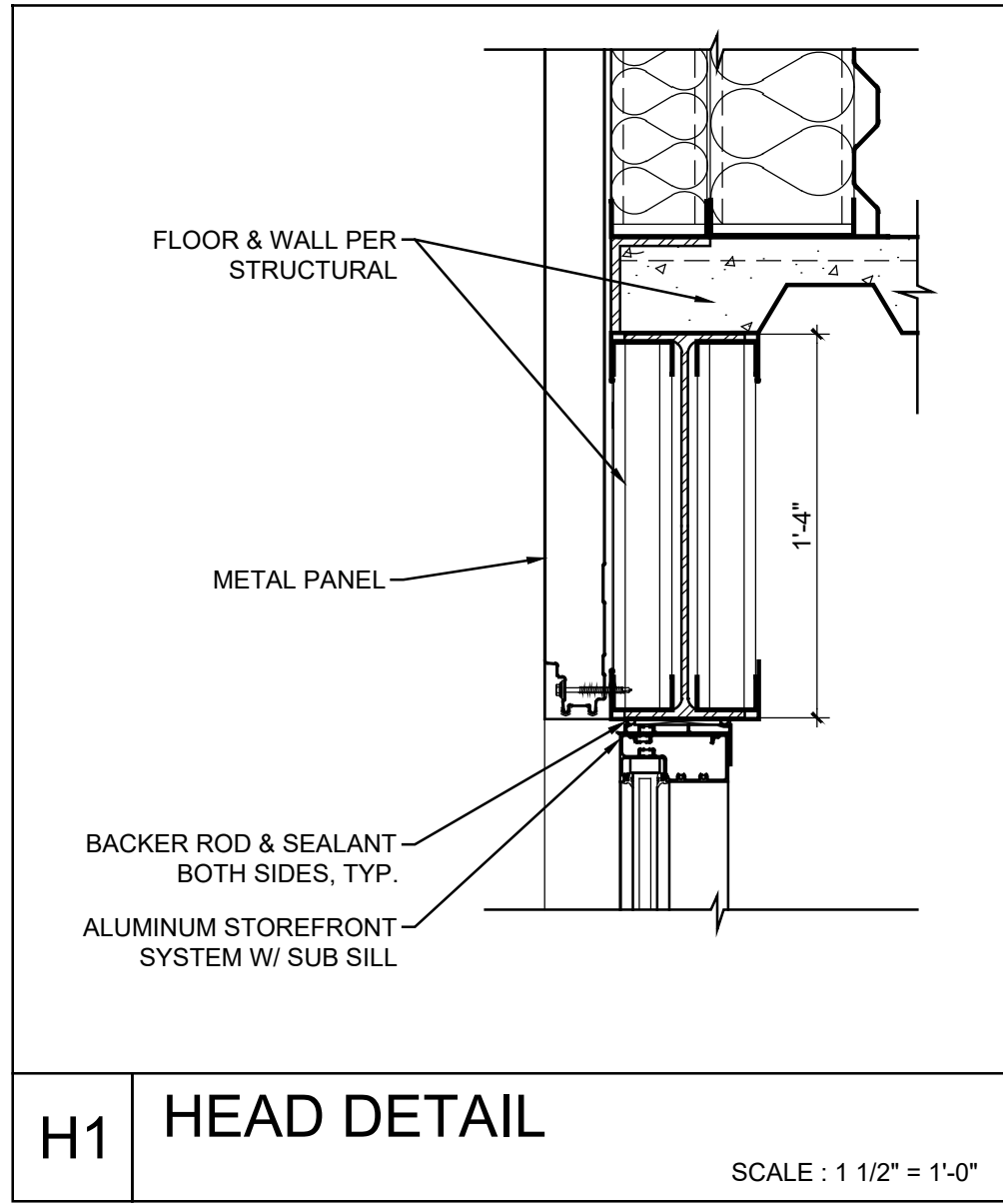
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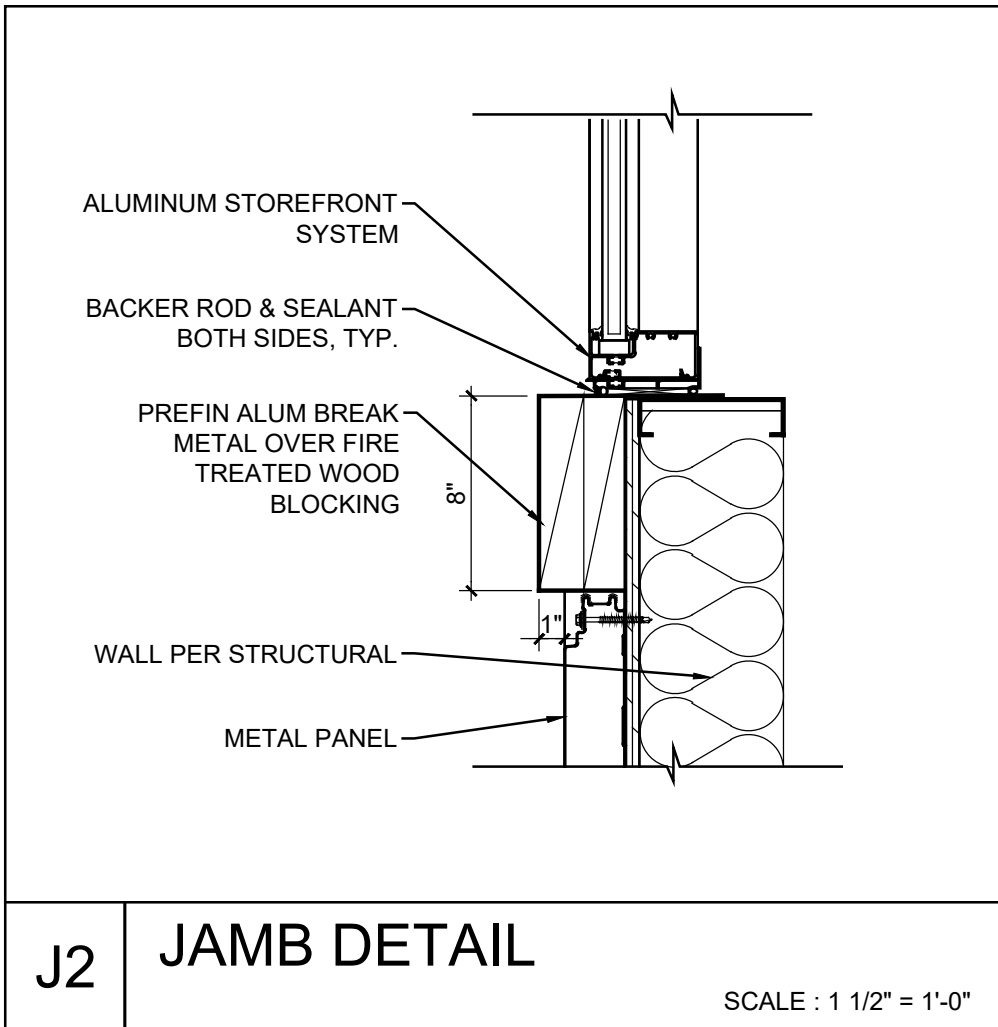
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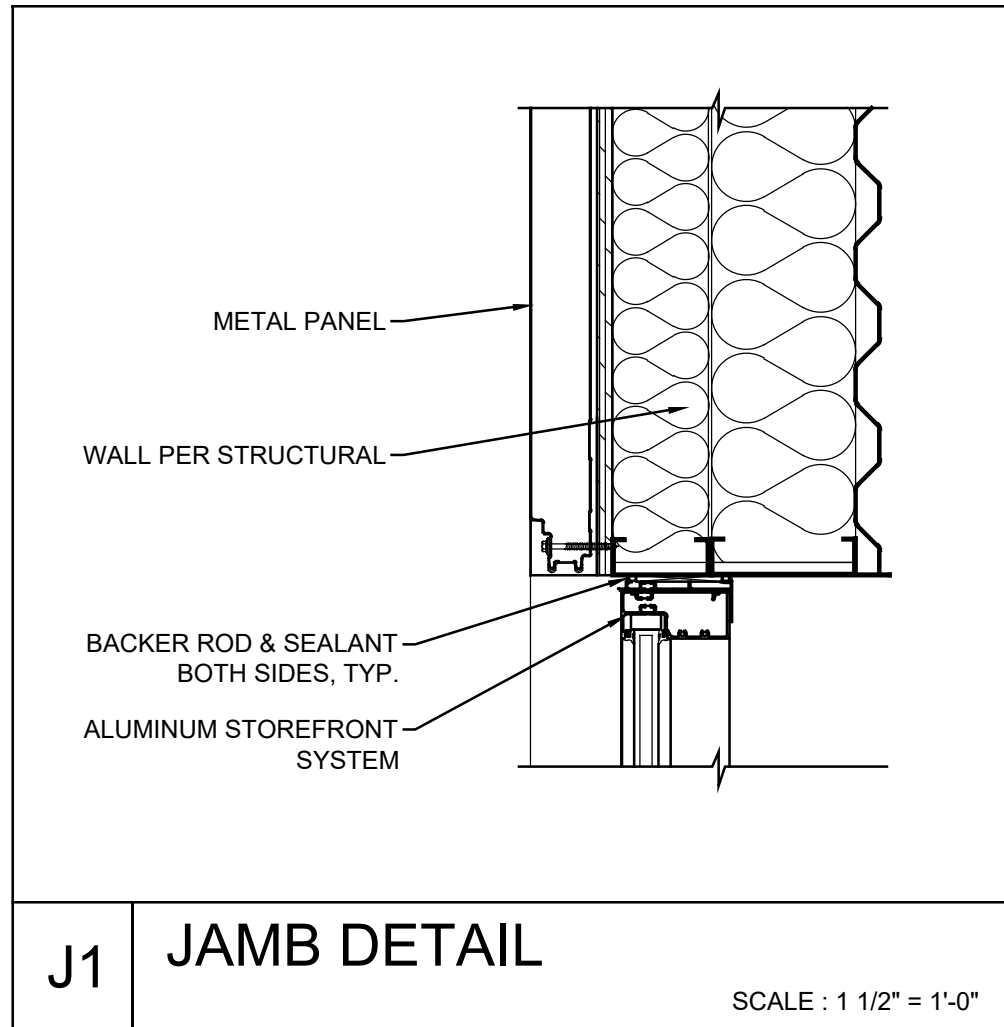
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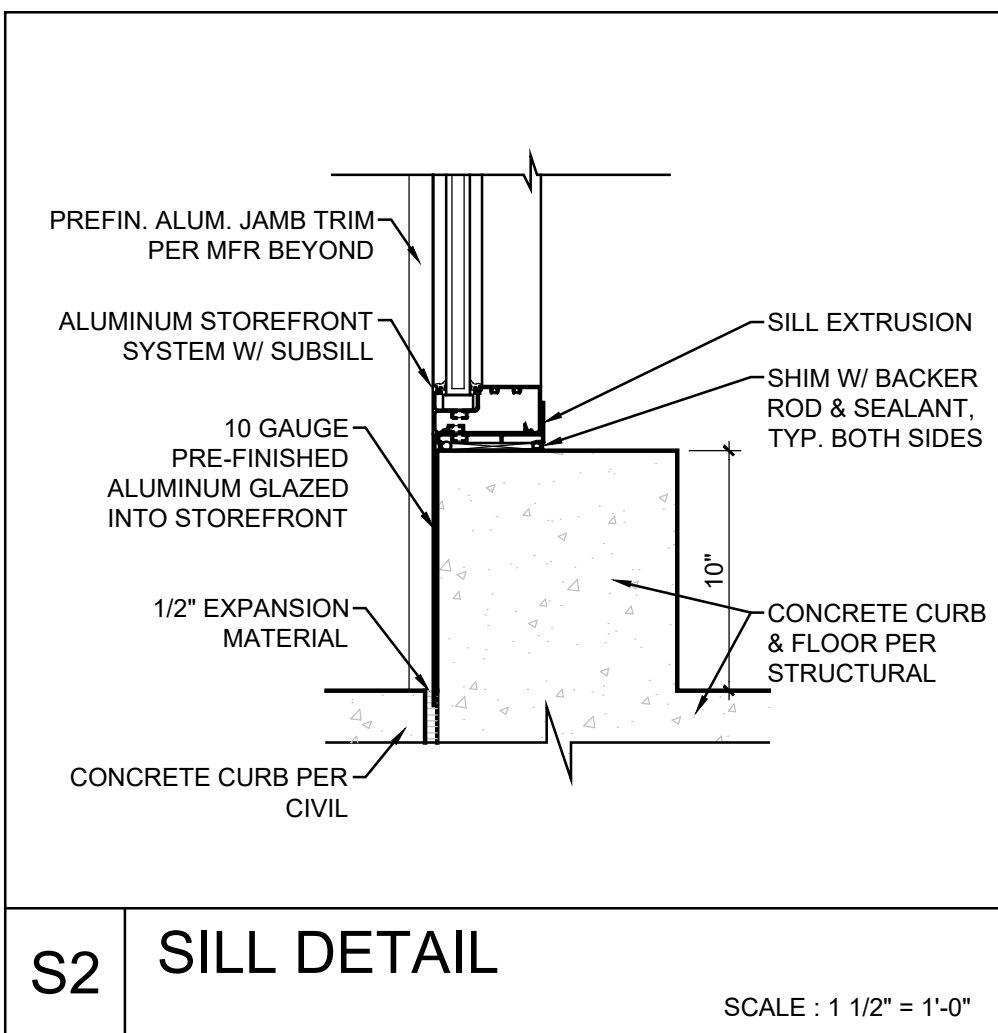
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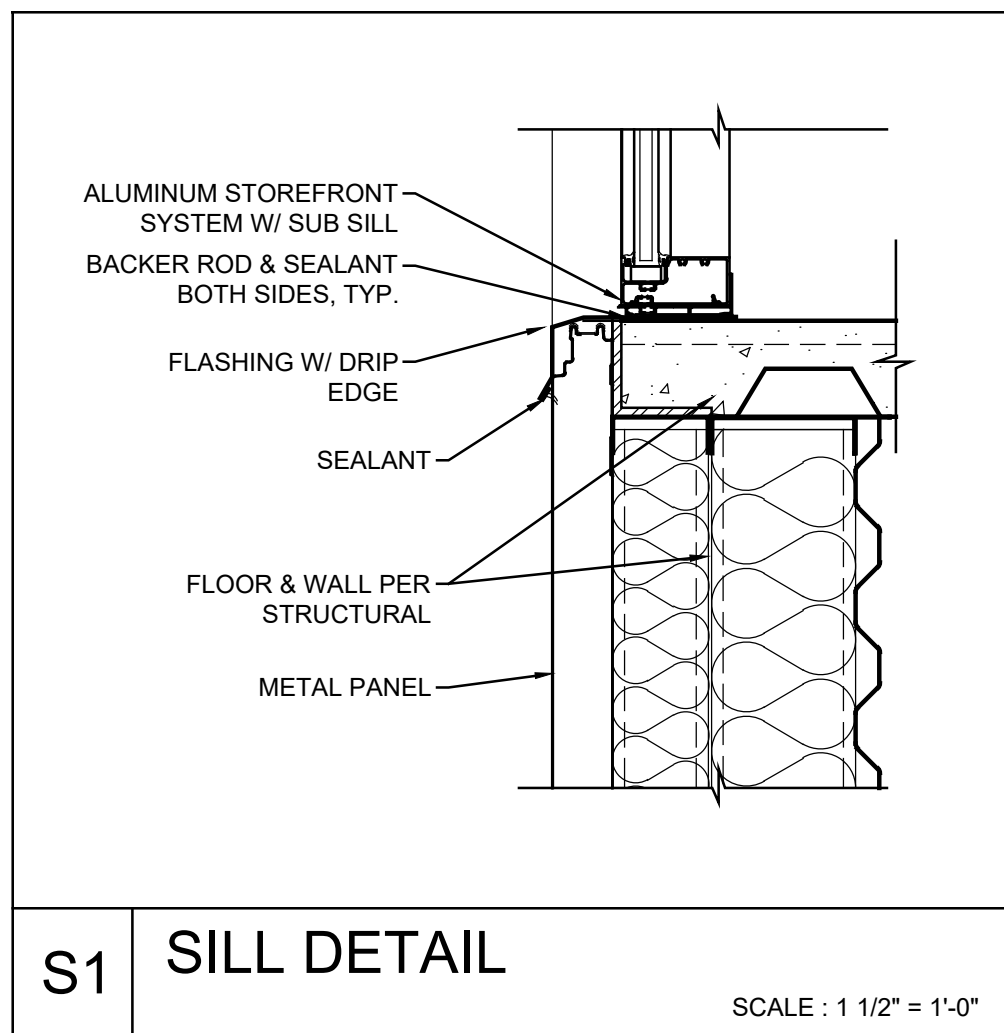
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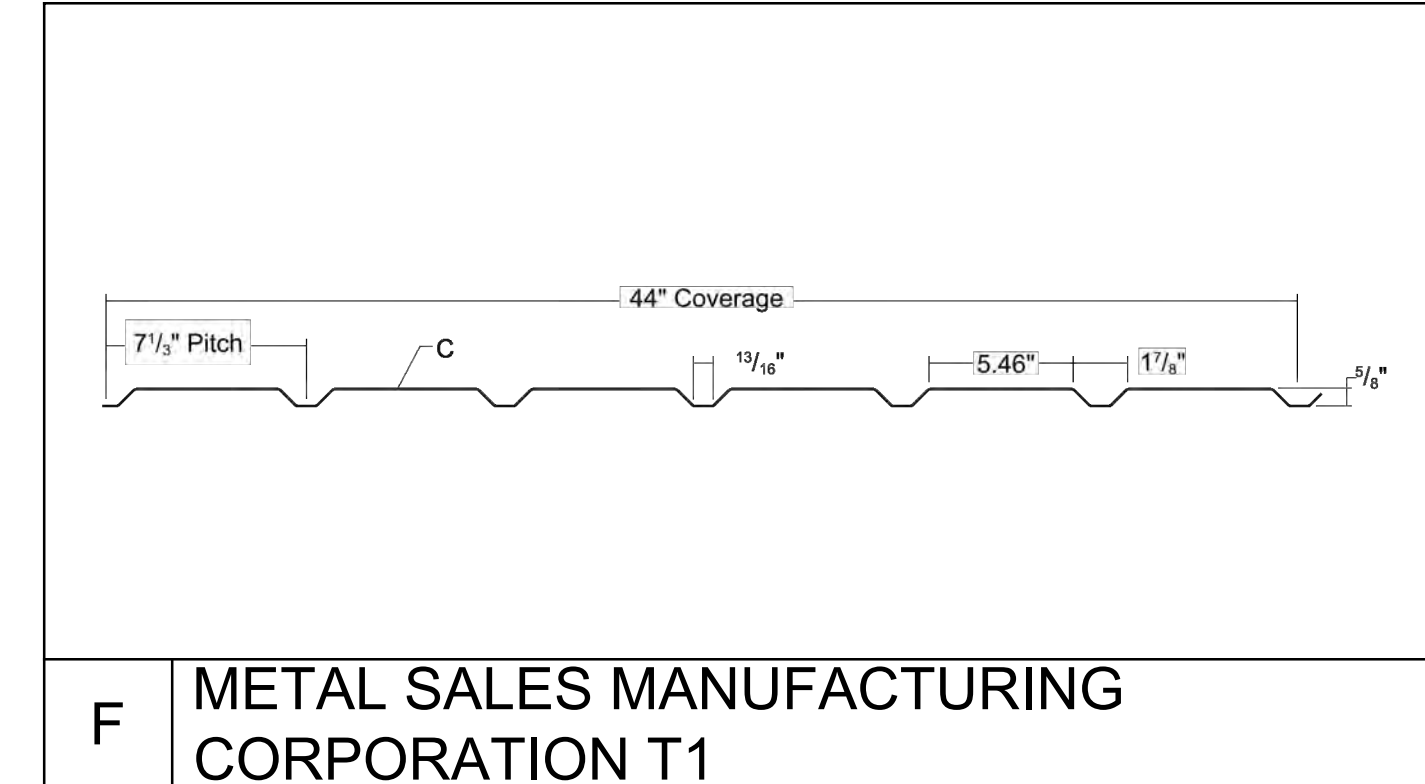
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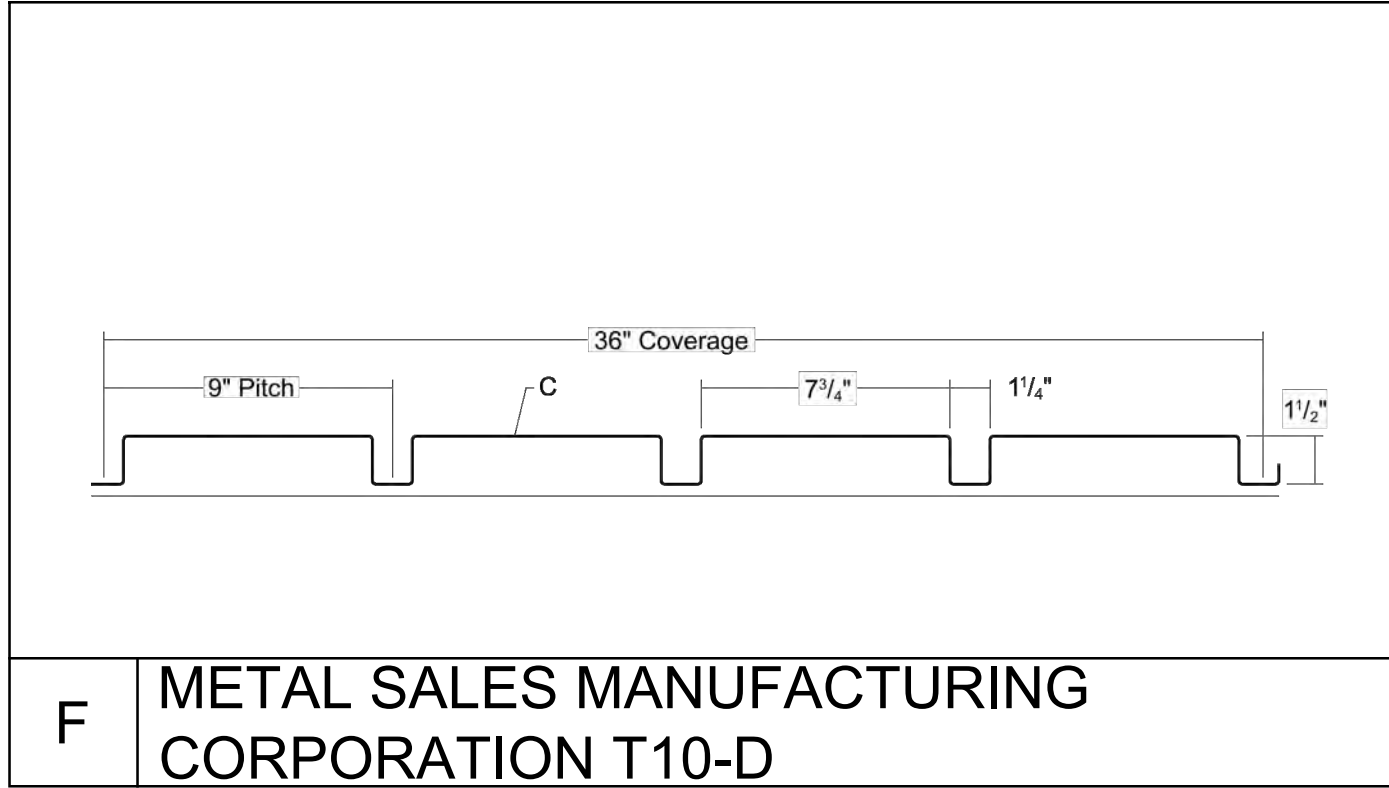


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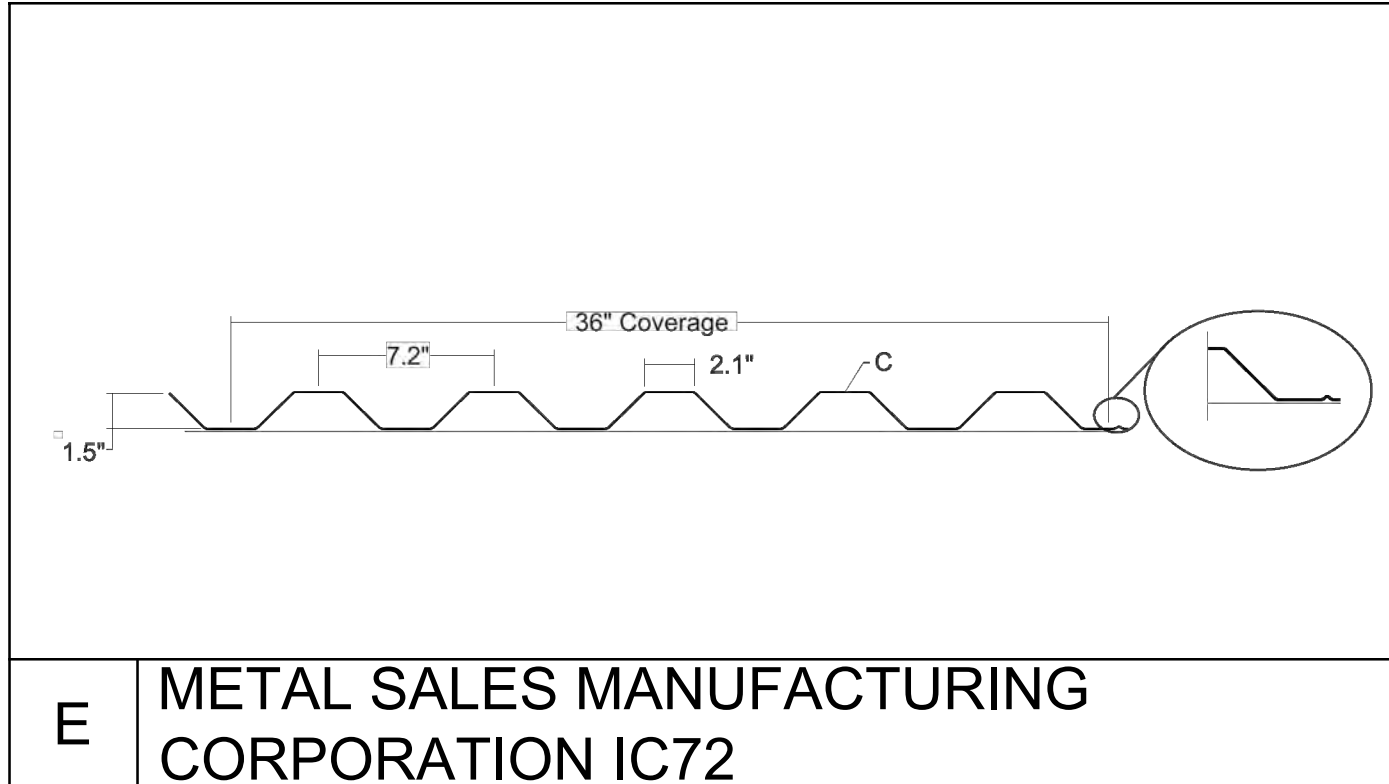
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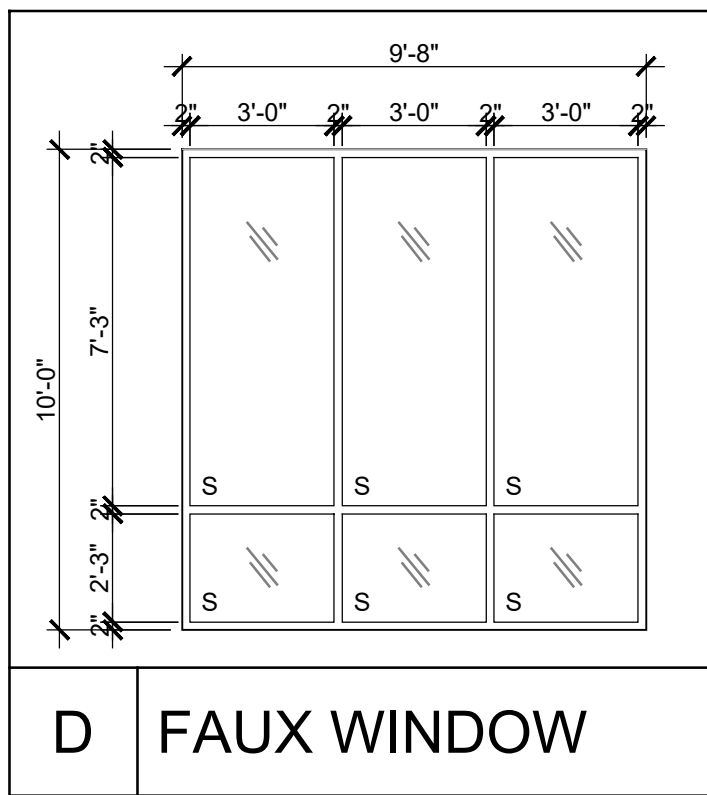


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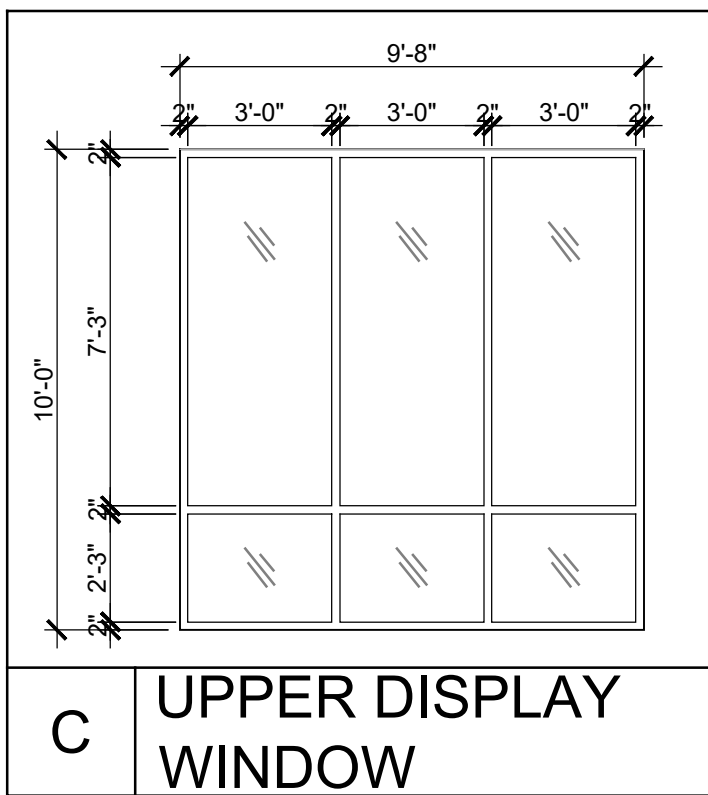


E METAL SALES MANUFACTURING CORPORATION IC72

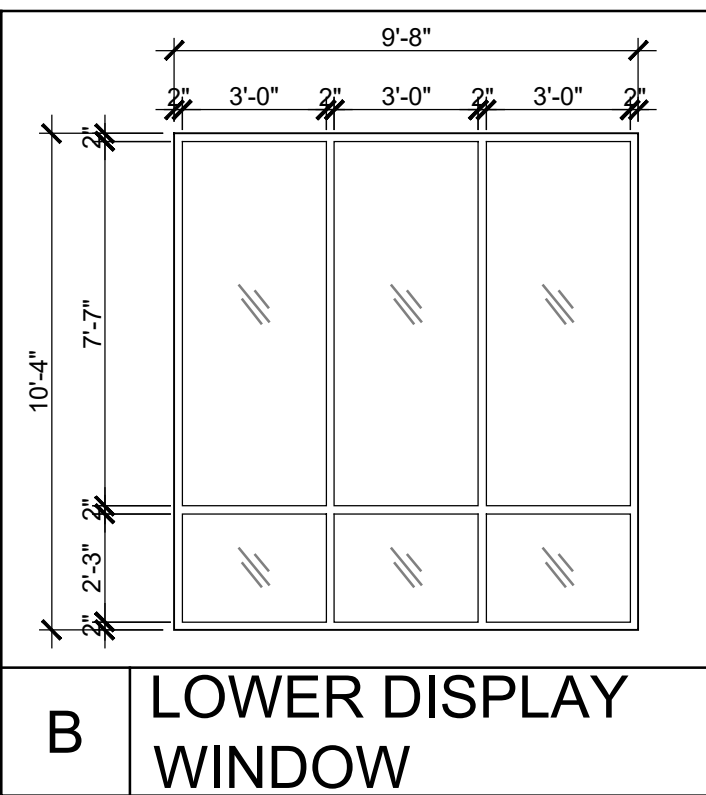
MARK	WINDOW				GLAZING				FRAME		DETAILS			QUANTITY	REMARKS
	Rough Opening (WxH)	Manufacturer	Model No.	Type	Manufacturer	Type	Color/Finish	U Factor	Material	Finish	Head	Jamb	Sill		
A	SEE ELEVATIONS	KAWNEER	TR-FAB V/G 451T OR EQ.	FIXED	OLDCASTLE	1" INSUL	CLEAR	0.7	ALUM	BLACK ANODIZED	H2 / A4-2	J2 / A4-2	S2 / A4-2	1	STOREFRONT
B	SEE ELEVATIONS	KAWNEER	TR-FAB V/G 451T OR EQ.	FIXED	OLDCASTLE	1" INSUL	CLEAR	0.7	ALUM	BLACK ANODIZED	H1 / A4-2	J1 / A4-2	S1 / A4-2	4	LOWER DISPLAY WINDOWS
C	SEE ELEVATIONS	KAWNEER	TR-FAB V/G 451T OR EQ.	FIXED	OLDCASTLE	1" INSUL	CLEAR	0.7	ALUM	BLACK ANODIZED	H1 / A4-2	J1 / A4-2	S1 / A4-2	12	UPPER DISPLAY WINDOWS
D	SEE ELEVATIONS	KAWNEER	TR-FAB V/G 451T OR EQ.	FIXED	OLDCASTLE	1" INSUL	CLEAR	0.7	ALUM	BLACK ANODIZED	H1 / A4-2	J1 / A4-2	S1 / A4-2	6	FAUX WINDOWS
<strong>GENERAL NOTES</strong> General Contractor to: 1 Verify all openings prior to ordering all storefront systems. 2 T = Tempered Glass, S = Spandrel Glass, F = Fire-rated Glass 3 Exterior operable fenestrations (doors) are required to have a maximum U-Factor of 1.10. 4 Exterior fenestrations (fixed storefronts) are required to have a maximum U-Factor of 0.70. 5 Provide backer rod & sealant around all openings - verify color w/ Owner. 6 Follow all manufacturer specifications for proper storefront & door insulation. 7 Notify Architect of any discrepancies contained within window schedule.  Window/Door Supplier or Manufacturer to: 1 Verify with General Contractor if windows & doors require extended jambs and sills. 2 Verify all finishes, hardware, glazing type, tinting and colors with General Contractor or Owner.  Additional Code Requirements: 1 All windows with glass below 24" above finish floor, doors, transoms above door units, side-lites to be tempered glass (T). 2 Tempered glass (T) and other types of glass being used shall meet the test requirements for safety glazing where required by ANSI-Z-97.  <strong>REMARKS</strong> A B															



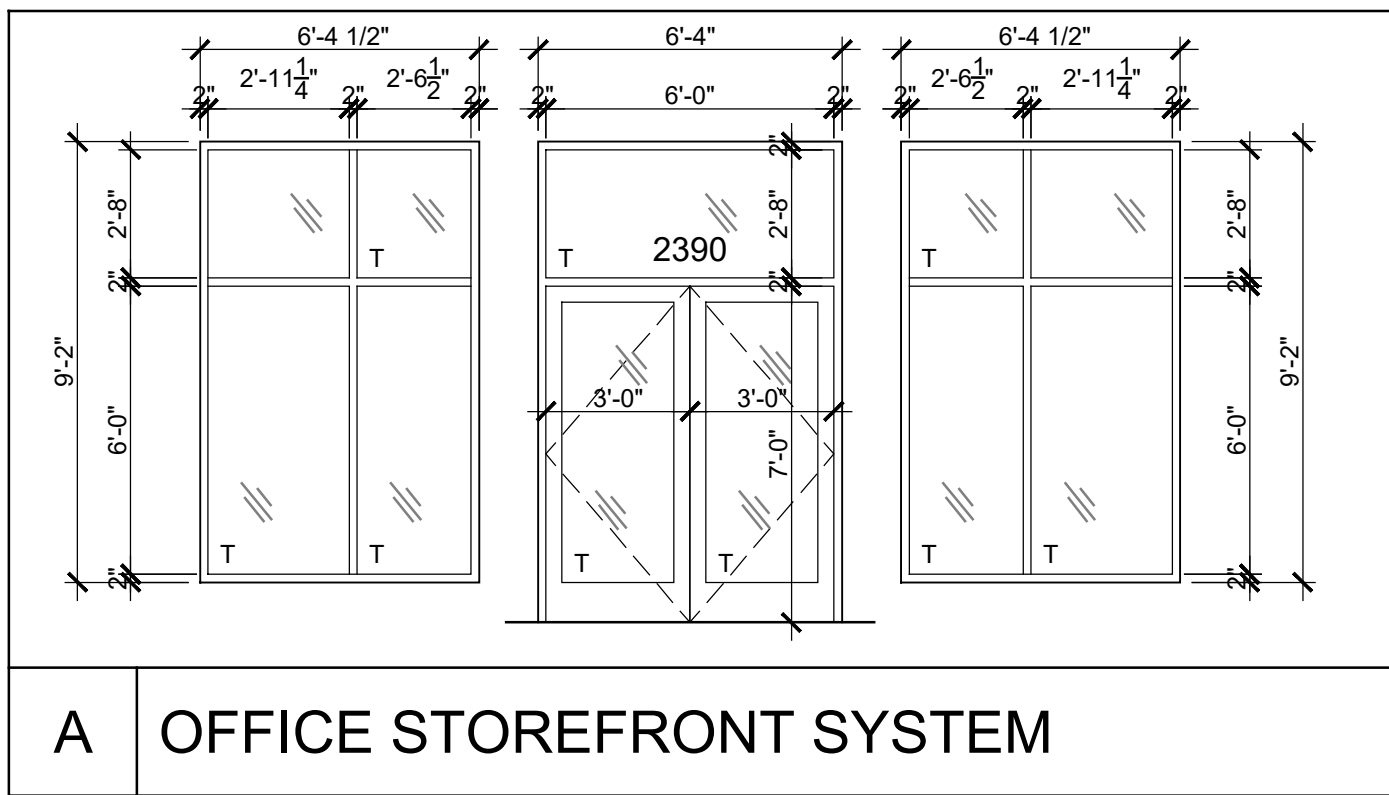
D FAUX WINDOW



C UPPER DISPLAY WINDOW



B LOWER DISPLAY WINDOW



A OFFICE STOREFRONT SYSTEM

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GC BY: DC

P.M.: CM & MA  
DRAWN BY: JW

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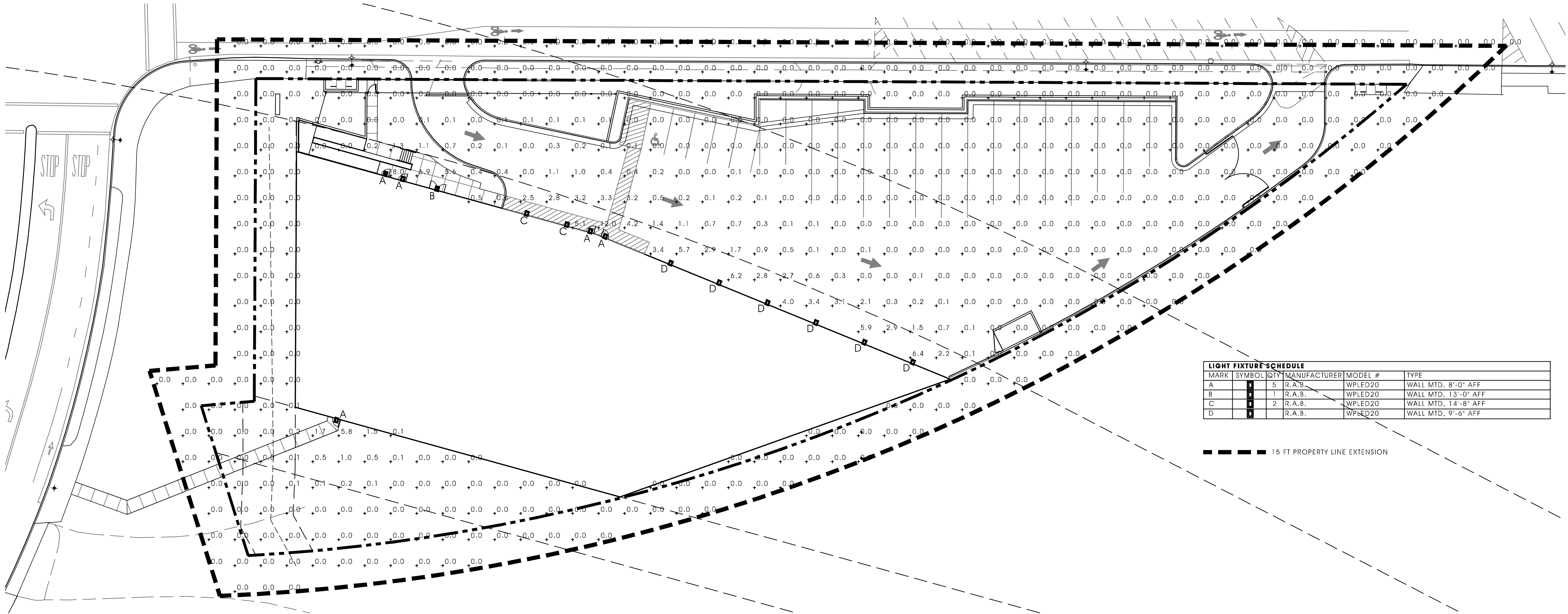
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**2390  
MARINER  
SQUARE  
DRIVE**

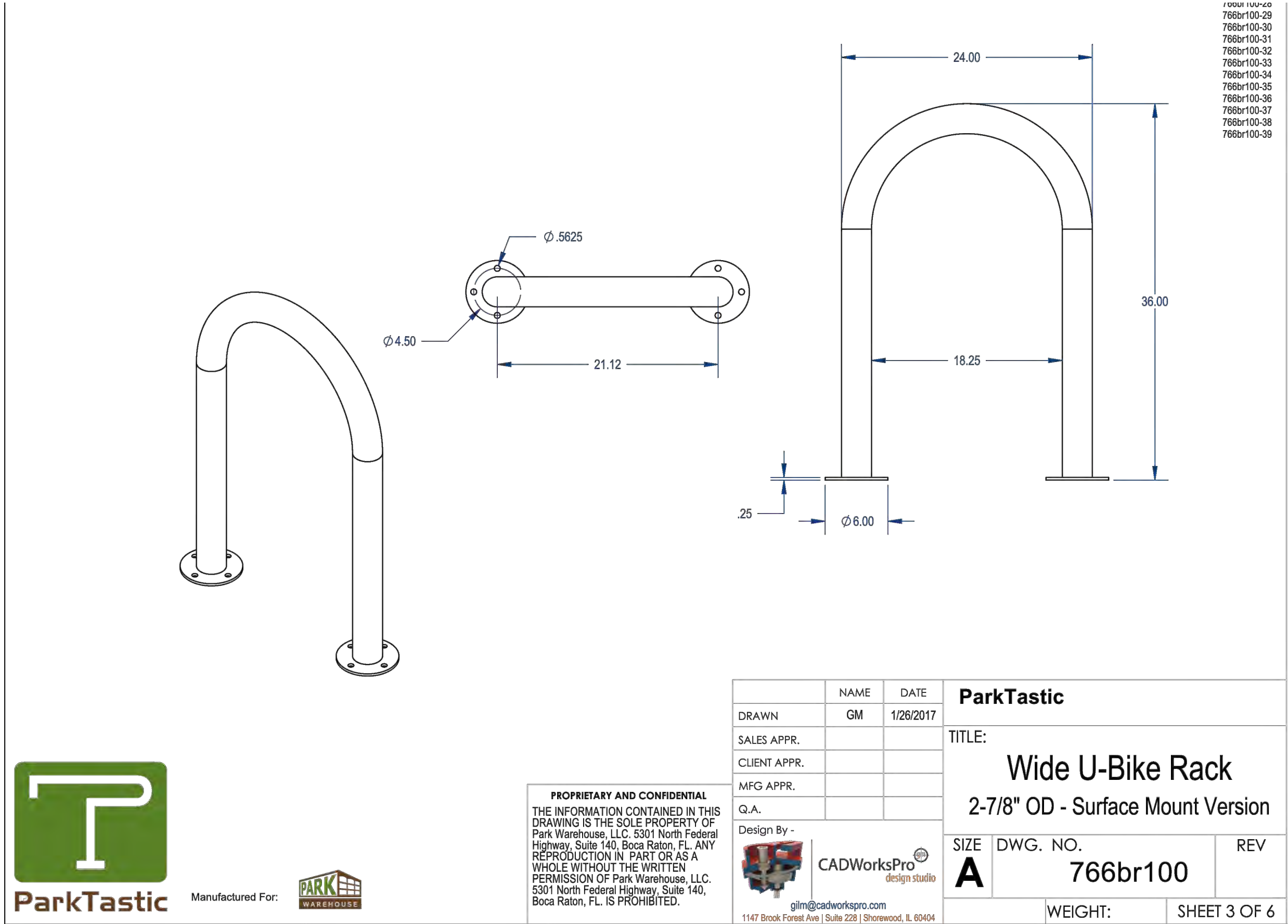
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WINDOW SCHEDULE  
& DETAILS





1 PHOTOMETRIC SITE PLAN  
SCALE: 1" = 20'-0"



2 BIKE RACK  
SCALE: N.T.S.



3 TYPICAL EXTERIOR LIGHT FIXTURE  
SCALE: 1" = 20'-0"

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**2390 MARINER SQUARE DRIVE**

ALAMEDA, CALIFORNIA 94501

PHOTOMETRIC PLAN & PRODUCT SPECIFICATIONS

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1 PERSPECTIVE  
SCALE: N.T.S.

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