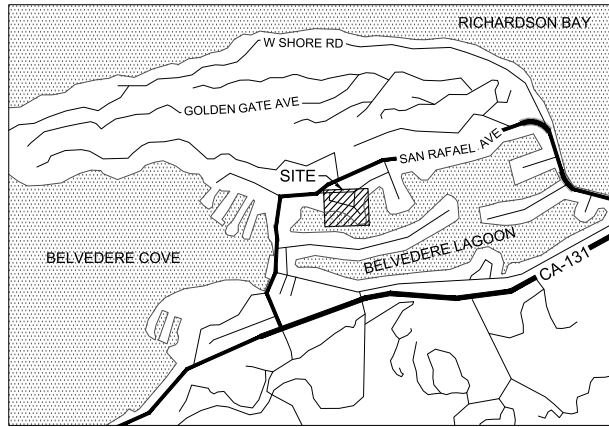


TENTATIVE MAP MALLARD POINTE CITY OF BELVEDERE, MARIN COUNTY, CALIFORNIA

PROJECT SUMMARY

1. OWNER/SUBDIVIDER
MALLARD POINTE 1951 LLC
CONTACT: BRUCE DORFMAN
39 FORREST STREET, SUITE 202
MILL VALLEY, CA 94941
PHONE NUMBER: 415-823-3001
2. ENGINEER
BKF ENGINEERS
1646 N. CALIFORNIA BLVD., SUITE 400
WALNUT CREEK, CA 94596
925-940-2200
CONTACT: CHRIS MILLS
3. UTILITIES:
WATER SUPPLY: MARIN MUNICIPAL WATER DISTRICT
FIRE PROTECTION: TIBURON FIRE PROTECTION DISTRICT
SEWAGE DISPOSAL: SANITATION DISTRICT NO.5
STORM DRAIN: CITY OF BELVEDERE
GAS: PACIFIC GAS & ELECTRIC
ELECTRIC: PACIFIC GAS & ELECTRIC
TELEPHONE: AT&T
CABLE TELEVISION: COMCAST
4. PROJECT ADDRESS & ASSESSOR PARCEL NUMBERS
1 MALLARD RD, APN 060-072-27
9 MALLARD RD, APN 060-072-28
17 MALLARD RD, APN 060-072-18



VICINITY MAP
NTS

SHEET INDEX

Sheet Number	Sheet Title
TM-1	TITLE SHEET
TM-2	EXISTING CONDITIONS
TM-3A	LOTGING AND LAYOUT PLAN
TM-3B	PARKING LAYOUT AND TURN PLAN
TM-4A	GRADING, DRAINAGE, & UTILITIES
TM-4B	STREET PROFILES
TM-5	EROSION CONTROL PLAN
TM-6	STORMWATER CONTROL PLAN

VERTICAL DATUM

VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

LAND USE SUMMARY

Y, REFER TO SECTION. ALLOWED TIBURON MOUNTAIN DEVELOPMENT ZONING. GENERAL PLAN DENSITY CALCULATION: 16.25 UNITS/ACRE (EXCLUDES ADU L). ZONING DENSITY CALCULATION: N/A (ZONING DENSITY IS NOT REQUIRED IN R2 ZONING). FLOOD ZONE: ZONE AE (ELEVATION 10 NAVD88) BASED ON FEMA FLOOD MAP 06041C0489E EFFECTIVE 3/16/16 AND MAP 06041C0527E EFFECTIVE 3/16/16.

LOT SUMMARY TABLE No. 1 - STRUCTURES

LOTS	LOT AREA (SF) ¹	NET LOT AREA (SF) ²	COVERAGE AREA (SF) ³	LOT COVERAGE (%) ⁴	ALLOWABLE LOT COVERAGE (%) ⁵
LOT 1	7,836	7,299	2,414	33.1	50%
LOT 2	7,830	7,053	3,445	48.8	
LOT 3	7,215	6,377	2,966	46.5	
LOT 4	6,871	6,028	2,176	36.1	
LOT 5	10,073	10,073	3,676	36.5	
LOT 6	6,830	6,015	2,176	36.2	
LOT 7	7,871	7,011	2,966	42.3	
LOT 8	8,287	7,490	3,445	46.0	
LOT 9	7,848	7,015	3,146	44.8	
LOT 10	6,840	6,148	1,970	32.0	
LOT 11	9,822	8,933	3,651	40.9	
LOT 12	32,766	26,911	15,905	62.8	
TOTAL	120,079	106,354	48,936	42.2	40%

LOT SUMMARY TABLE No. 2 - TOTAL COVERAGE

LOTS	LOT AREA (SF) ¹	NET LOT AREA (SF) ²	COVERAGE AREA (SF) ³	LOT COVERAGE (%) ⁴	ALLOWABLE LOT COVERAGE (%) ⁵
LOT 1	7,836	7,299	2,803	38.4	60%
LOT 2	7,830	7,053	3,819	54.1	
LOT 3	7,215	6,377	3,191	50.0	
LOT 4	6,871	6,028	2,360	39.2	
LOT 5	10,073	10,073	3,963	39.3	
LOT 6	6,830	6,015	2,360	39.3	
LOT 7	7,871	7,011	3,189	45.3	
LOT 8	8,287	7,490	3,823	51.0	
LOT 9	7,848	7,015	3,330	47.5	
LOT 10	6,840	6,148	1,994	32.4	
LOT 11	9,822	8,933	3,741	41.9	
LOT 12	32,766	26,911	16,905	62.8	
TOTAL	120,079	106,354	51,478	45.1	N/A

NOTES:

- LOT AREAS REPRESENT THE TOTAL AREA WITHIN THE PROPOSED LOT LINES SHOWN.
- NET LOT AREA THAT EXCLUDES THE PROPOSED ROADWAY (AREA BETWEEN CURBS)
- LOT COVERAGE: AREA OF STRUCTURES **EXCLUDING** UNCOVERED DECKS ABOVE 4 FEET.
- LOT AREA AND LOT COVERAGE ARE DEFINED IN SECTIONS 19.08.300 & 19.08.310 OF THE BELVEDERE MUNICIPAL CODE.
- ALLOWABLE LOT COVERAGE IS DEFINED IN SECTION 19.52.020 OF THE BELVEDERE MUNICIPAL CODE

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- ALLOWABLE LOT COVERAGE IS DEFINED IN SECTION 19.52.020 OF THE BELVEDERE MUNICIPAL CODE

ENGINEER'S STATEMENT

THESE TENTATIVE MAP PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.

Christopher C. Mills
7/15/2022
CHRISTOPHER C. MILLS
BKF ENGINEERS
NO. C 60251
DATE



TITLE SHEET

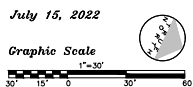
MALLARD POINTE

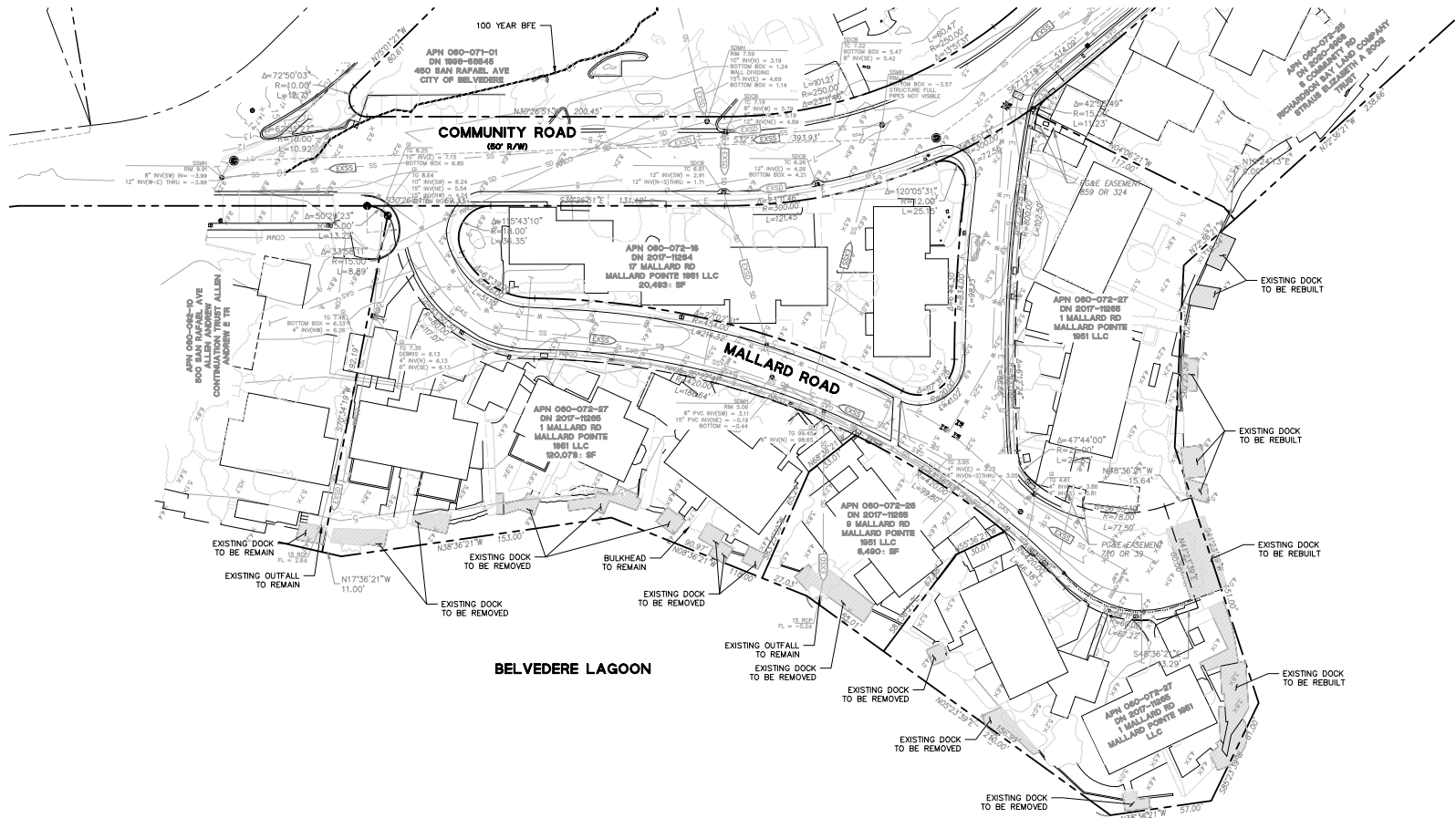
Belvedere, California

MALLARD POINTE
1951 LLC
Project Sponsor

BKF BKF ENGINEERS
1646 N. CALIFORNIA BLVD.
SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200
www.bkf.com

TM-1





LEGEND

---	PROPERTY LINE
---	ROAD CENTERLINE
---	EXISTING EASEMENT
---	EXISTING STORM DRAIN LINE
---	EXISTING SEWER LINE
---	EXISTING WATER LINE
---	EXISTING COMMUNICATION LINE
---	EXISTING GAS LINE
---	EXISTING ELECTRICAL LINE
---	DIRECTION OF FLOW
---	EXISTING CONCRETE SWALE

ABBREVIATIONS

BFE	BASE FLOOD ELEVATION
COMM	COMMUNICATION
E	EAST/ELECTRIC
G	GAS
HYD	HYDRANT
L	LINE
N	NORTH
R	RADIUS
RD	ROAD
S	SOUTH
SD	STORM DRAIN
SF	SQUARE FEET
SS	SANITARY SEWER
W	WATER/WEST
WV	WATER VALVE

NOTES

- THE UTILITIES AND OUTFALLS SHOWN ON THIS PLAN ARE DERIVED FROM AVAILABLE RECORD DATA AND/OR SURFACE OBSERVATION AND ARE APPROXIMATE ONLY. ACTUAL LOCATION AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES NOT SHOWN ON THIS PLAN SHALL BE VERIFIED.
- FIELD BOUNDARY SURVEY WAS CONDUCTED BY CSM/STUBER-STROEH ENGINEERING ON SEPTEMBER AND OCTOBER OF 2020.
- BEARINGS SHOWN ARE STATE PLAN BEARINGS. THERE IS A 01°23'39" MAPPING ANGLE TO ACHIEVE BEARINGS AS SHOWN ON 7 M 1 OF THE LAGOON SUBDIVISION NO. 5 AND DEED BEARINGS.
- EXISTING TOPOGRAPHIC FEATURES AND ELEVATIONS TAKEN FROM AERIAL SURVEY CONDUCTED BY CSM/STUBER-STROEH ENGINEERING. THE AERIAL CONTROL IS PER THE CALIFORNIA REAL TIME NETWORK (CRTN), CALIFORNIA COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83), ZONE 3 EPOCH 2017.5. CONTROL SURVEY WAS PERFORMED ON AUGUST 12, 2020.
- ELEVATIONS OUTSIDE OF THE PROJECT LIMITS ARE DERIVED FROM USGS LIDAR SCANS.
- AERIAL SURVEY WILL NEED TO BE SUPPLEMENTED BY CONVENTIONAL FIELD SURVEY FOR AREAS OF PRECISE GRADING, ADA, ETC. WHERE VERY PRECISE ELEVATIONS ARE REQUIRED.
- FEMA FLOOD HAZARD ELEVATION AT 10', AS NOTED IN FIRM NUMBER 06041C0489E, PANEL 0527.

DEMOLITION NOTES

- ALL EXISTING IMPROVEMENTS TO BE REMOVED UNLESS NOTED OTHERWISE.
- EXISTING UTILITIES NOT SPECIFIED ON THIS PLAN TO BE REMOVED OR ABANDONED ARE TO REMAIN IN PLACE AND ARE NOT TO BE DISTURBED. IF DISCREPANCIES OCCUR BETWEEN UTILITIES SHOWN ON THIS PLAN AND THOSE WHICH EXIST IN THE FIELD, CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER.
- EXISTING BUILDINGS, STRUCTURES, WALLS, VERTICAL CURB, PAVEMENT, CURB & GUTTER, SIDEWALK AND TREES SHALL BE DEMOLISHED WITHIN PROJECT LIMITS, UNLESS NOTED OTHERWISE.
- DEMOLITION OF ONSITE UTILITIES, SERVICES TO SITE SHALL BE TERMINATED AT THE POINTS OF CONNECTION INDICATED ON PLAN. CONTRACTOR SHALL CONTACT UTILITY PROVIDER TO SCHEDULE ANY NECESSARY INTERRUPTION OF SERVICE AND TO COORDINATE PROCEDURE FOR CUTTING AND CAPPING LINES.
- PRIOR TO ABANDONMENT OR REMOVAL OF ANY EXISTING UTILITIES (MAIN OR LATERAL), CONTRACTOR SHALL VERIFY THAT SAID UTILITIES ARE NOT ACTIVE.
- UTILITY PIPES SHALL DEMOLISHED PER GEOTECHNICAL ENGINEER'S DIRECTION. OPTIONS INCLUDE:
 - FILLING PIPE WITH SLURRY
 - REMOVING COMPLETELY AND BACKFILLING WITH SUITABLE MATERIAL
 - CRUSHING PIPE IN PLACE AND BACKFILLING WITH APPROPRIATE MATERIAL
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND ALL DIMENSIONS PRIOR TO START OF DEMOLITION AND DECONSTRUCTION AND TO PROTECT ALL EXISTING ADJACENT STRUCTURES AND

THEIR CONTENTS IN FULL.

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE BUILDING'S STABILITY DURING DEMOLITION AND DECONSTRUCTION, INCLUDING BUT NOT LIMITED TO: METHOD AND SEQUENCE, TEMPORARY SHORING AND TEMPORARY BRACING.
- CONTRACTOR SHALL NOTIFY BKF SHOULD ANY INFORMATION ON THE PLANS CONFLICT WITH ANY OTHER PART OF THE DRAWINGS.
- CONTRACTOR TO COORDINATE DEMOLITION WITH DECONSTRUCTION AND SALVAGE REQUIREMENTS.
- BUILDINGS ARE TO BE REMOVED ENTIRELY. COORDINATE REMOVAL OF ANY HAZARDOUS MATERIALS DEMOLITIONS AND DECONSTRUCTION REMEDIATION.
- RECYCLING OF ALL CONCRETE AND ASPHALT TO BE PER OWNER DIRECTION.
- ALL FENCES AND FENCE POST FOOTINGS TO BE REMOVED ENTIRELY, UNLESS NOTED OTHERWISE.

EXISTING CONDITIONS

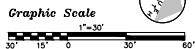
MALLARD POINTE
Belvedere, California

MALLARD POINTE
1951 LLC
Project Sponsor

BKF BKF ENGINEERS
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SUITE 400
WALNUT CREEK, CA 94596
(925) 940-2200
www.bkf.com

TM-2

July 15, 2022



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROJECT BOUNDARY
- PROPOSED PROPERTY LINE
- BUILDING SETBACK
- BULKHEAD LIMITS
- 100 YEAR BASE FLOOD ELEVATION
- ROAD CENTERLINE
- TRANSFORMER
- ACCESS AND UTILITY EASEMENT
- BIORETENTION AREA
- SELF-RETAINING AREA

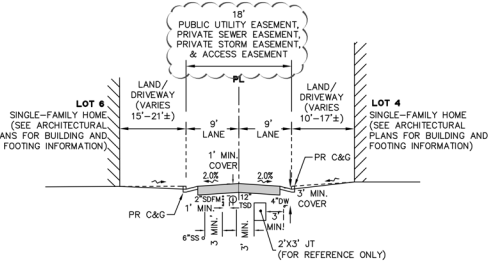
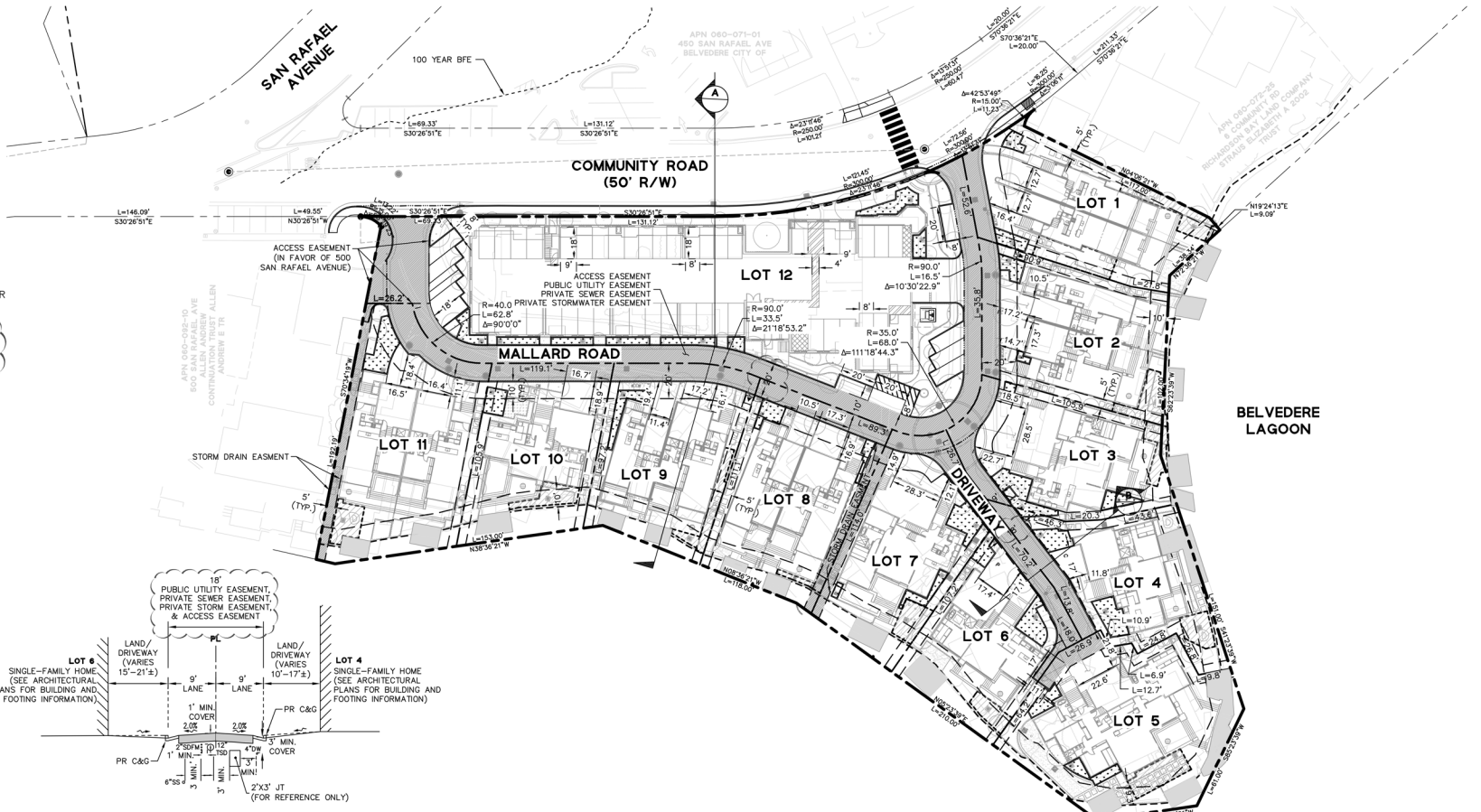
- NOTES**
- PROPOSED BUILDINGS ARE SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - NO PARKING LANE CURBS AND SIGNAGE SHALL BE INSTALLED ALONG MALLARD ROAD AND DRIVEWAY ACCORDING TO TIBURON FIRE PROTECTION DISTRICT AND CALIFORNIA VEHICLE CODE STANDARDS, AS REQUIRED BY THE FIRES MARSHAL.
 - PARKING DIMENSIONS SHALL BE COMPLIANT WITH SECTION 19.68.020 OF THE CITY OF BELVEDERE MUNICIPAL CODE.
 - ALL PARKING SPACES WITHIN THE APARTMENT BUILDING ARE ASSIGNED PARKING. SITE PARKING STALLS ARE CONSIDERED UNASSIGNED PARKING.
 - WATER SURFACE ELEVATIONS ARE PER BELVEDERE LAAGOON ANALYSIS CONDUCTED BY STETSON ENGINEERS INC.
 - SEE ARCHITECTURAL PLANS FOR ALL APARTMENT AND LAAGOON HOME PARKING

LAND USE SUMMARY

GROSS AREA OF SITE:	120,079 SQUARE FEET, 2.8 ACRES
NET AREA OF SITE:	106,354 SQUARE FEET, 2.4 ACRES
ALLOWABLE AND PROPOSED FLOOR AREA RATIO (FAR):	N/A (FLOOR AREA RATIO IS NOT REQUIRED IN R2 ZONING)
GENERAL PLAN DENSITY CALCULATION:	16.25 UNITS/ACRE (EXCLUDES ADU UNITS)
ZONING DENSITY CALCULATION:	N/A (ZONING DENSITY IS NOT REQUIRED IN R2 ZONING)

ABBREVIATIONS

BLDG	BUILDING	OF	GARAGE FLOOR
BFE	BASE FLOOD ELEVATION	L	LENGTH
C	COMPACT CAR	LAND	LANDSCAPE
C/L	CENTERLINE	NTS	NOT TO SCALE
C&G	CURB AND GUTTER ELEVATION	P	P-CAR
ELEV	ELEVATION	PL	PROPOSED PROPERTY LINE
EV	ELECTRIC VEHICLE CHARGING STATION	PR	PROPOSED
EX	EXISTING	R	RADIUS
FF	FINISHED FLOOR	R/W	RIGHT OF WAY
FS	FINISHED SURFACE	VAR	VARIES



SECTION B

NTS

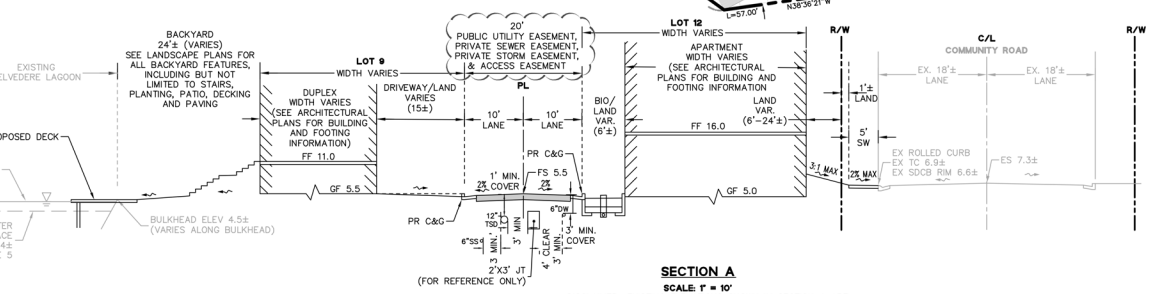
LOT SUMMARY TABLE No. 1 - STRUCTURES

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LOT 12	32,766	28,911	16,905	62.8	
TOTAL	120,079	106,354	48,936	42.2	N/A

LOT SUMMARY TABLE No. 2 - TOTAL COVERAGE

LOTS	LOT AREA (SF) ¹	NET LOT AREA (SF) ²	COVERAGE AREA (SF) ³	LOT COVERAGE (%) ³	ALLOWABLE LOT COVERAGE (%) ⁵
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TOTAL	120,079	106,354	51,478	45.1	N/A

- NOTES**
- LOT AREAS REPRESENT THE TOTAL AREA WITHIN THE PROPOSED LOT LINES SHOWN.
 - NET LOT AREA THAT EXCLUDES THE PROPOSED ROADWAY (AREA BETWEEN CURBS).
 - LOT COVERAGE: AREA OF STRUCTURES EXCLUDING UNCOVERED DECKS ABOVE 4 FEET.
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 - ALLOWABLE LOT COVERAGE IS DEFINED IN SECTION 19.52.020 OF THE BELVEDERE MUNICIPAL CODE.



- SECTION A**
- SCALE: 1" = 10'
- DISCLAIMER: EXISTING ELEVATIONS SHOWN IN SECTION A ARE APPROXIMATE ONLY AND ARE BASED ON AERIAL SURVEY CONDUCTED BY CSW/STUBER-STROEH ENGINEERING DATED AUGUST 12, 2020

LOTING AND LAYOUT PLAN

July 15, 2022

Graphic Scale 1"=30'

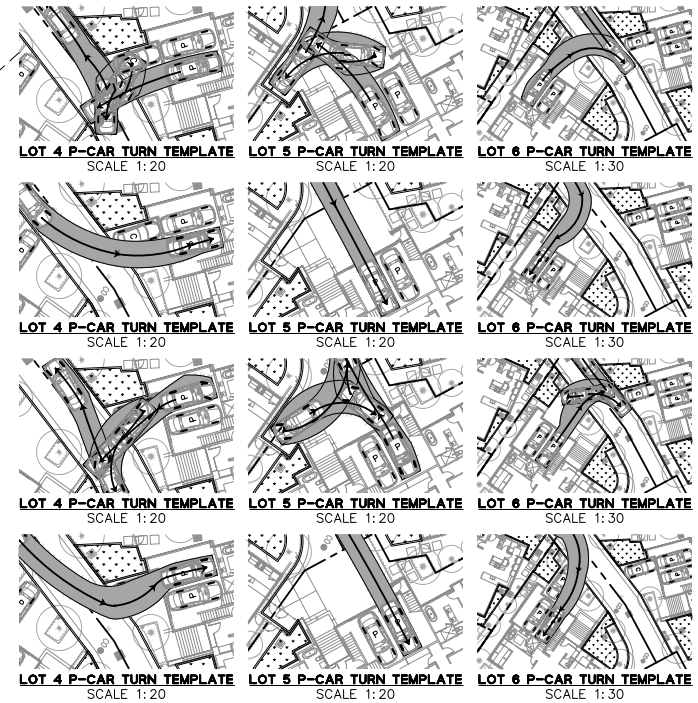
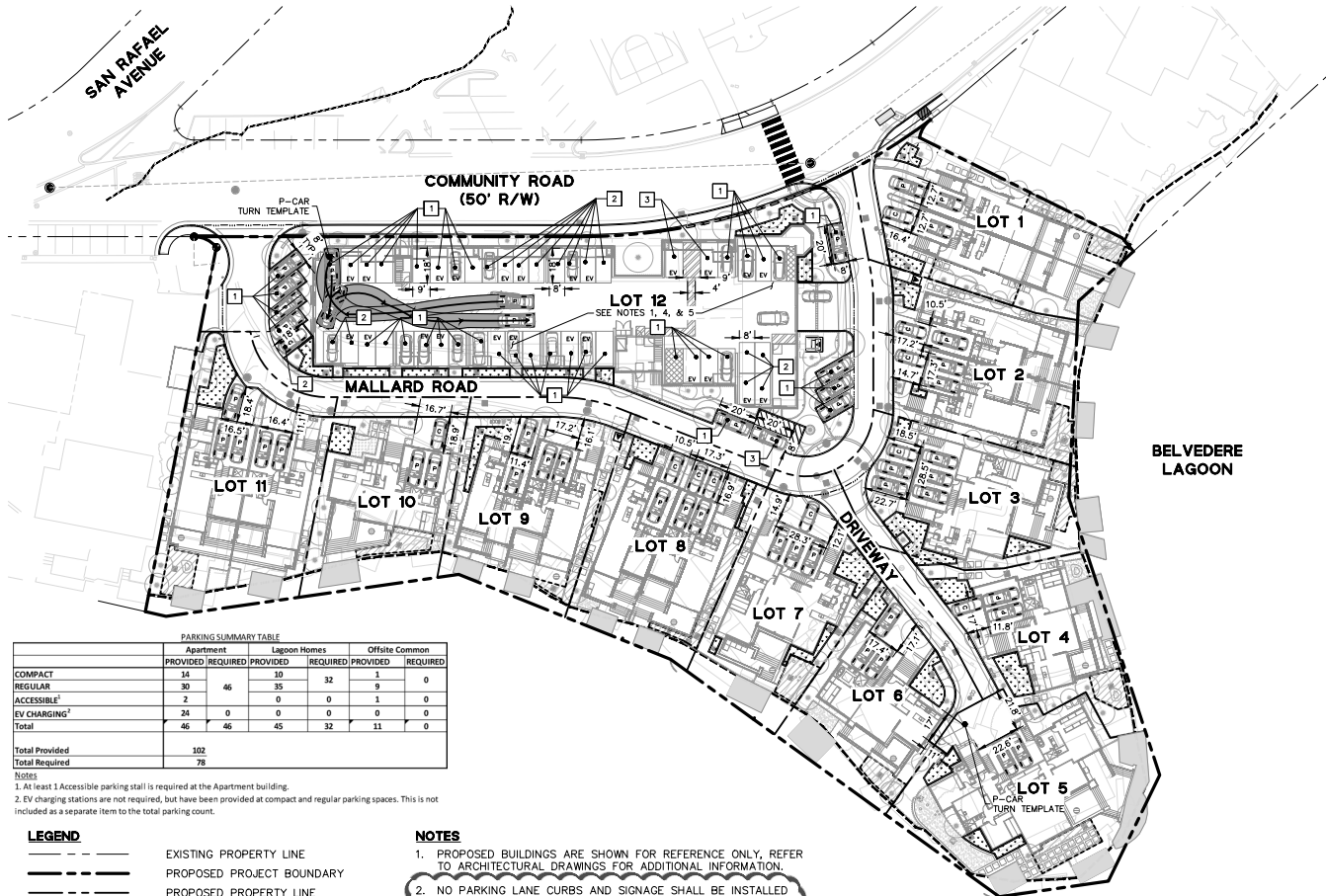


MALLARD POINTE
Belvedere, California

MALLARD POINTE
1951 LLC
Project Sponsor



TM-3A



PARKING SUMMARY TABLE

	Apartment		Lagoon Homes		Offsite Common	
	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED
COMPACT	14	10	32	9	1	0
REGULAR	30	46	35	32	9	0
ACCESSIBLE ¹	2	0	0	0	1	0
EV CHARGING ²	24	0	0	0	0	0
Total	46	46	45	32	11	0
Total Provided	102					
Total Required	78					

Notes
 1. At least 1 Accessible parking stall is required at the Apartment building.
 2. EV charging stations are not required, but have been provided at compact and regular parking spaces. This is not included as a separate item to the total parking count.

- LEGEND**
- EXISTING PROPERTY LINE
 - PROPOSED PROJECT BOUNDARY
 - PROPOSED PROPERTY LINE
 - BUILDING SETBACK
 - BULKHEAD LIMITS
 - 100 YEAR BASE FLOOD ELEVATION
 - ROAD CENTERLINE
 - TRANSFORMER
 - ACCESS AND UTILITY EASEMENT
 - BIORETENTION AREA
 - SELF-RETAINING AREA

- ABBREVIATIONS**
- | | | | |
|------|-----------------------------------|------|---------------|
| BLDG | BUILDING | GF | GARAGE FLOOR |
| BFE | BASE FLOOD ELEVATION | L | LENGTH |
| C | COMPACT CAR | LAND | LANDSCAPE |
| C/L | CENTERLINE | NTS | NOT TO SCALE |
| C&G | CURB AND GUTTER | P | P-CAR |
| ELEV | ELEVATION | PL | PROPERTY LINE |
| EV | ELECTRIC VEHICLE CHARGING STATION | PR | PROPOSED |
| EX | EXISTING | R | RADIUS |
| FF | FINISHED FLOOR | R/W | RIGHT OF WAY |
| FS | FINISHED SURFACE | VAR | VARIES |

- NOTES**
- PROPOSED BUILDINGS ARE SHOWN FOR REFERENCE ONLY, REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - NO PARKING LANE CURBS AND SIGNAGE SHALL BE INSTALLED ALONG MALLARD ROAD AND DRIVEWAY ACCORDING TO TIBURON FIRE PROTECTION DISTRICT AND CALIFORNIA VEHICLE CODE STANDARDS, AS REQUIRED BY THE FIRES MARSHAL.
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 NET AREA OF SITE: 106,354 SQUARE FEET, 2.4 ACRES

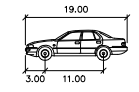
ALLOWABLE AND PROPOSED FLOOR AREA RATIO (FAR): N/A (FLOOR AREA RATIO IS NOT REQUIRED IN R2 ZONING)

GENERAL PLAN DENSITY CALCULATION: 16.25 UNITS/ACRE (EXCLUDES ADU UNITS)

ZONING DENSITY CALCULATION: N/A (ZONING DENSITY IS NOT REQUIRED IN R2 ZONING)

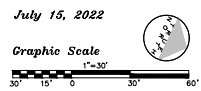
- KEYNOTES**
- STANDARD SITE PARKING STALL (8'X20' TYP. SEE NOTE 3)
 - COMPACT PARKING STALL (8'X18' TYP. 7.5'X16' MIN.)
 - ACCESSIBLE PARKING STALL (8'X20' TYP.)
 - STANDARD APARTMENT PARKING STALL (9'X18' TYP. SEE NOTES 3&4)

PARKING LAYOUT AND TURN PLAN



P-CAR (STANDARD)

- feet
- Width : 7.00
 - Track : 6.00
 - Lock to Lock Time : 6.0
 - Steering Angle : 31.6



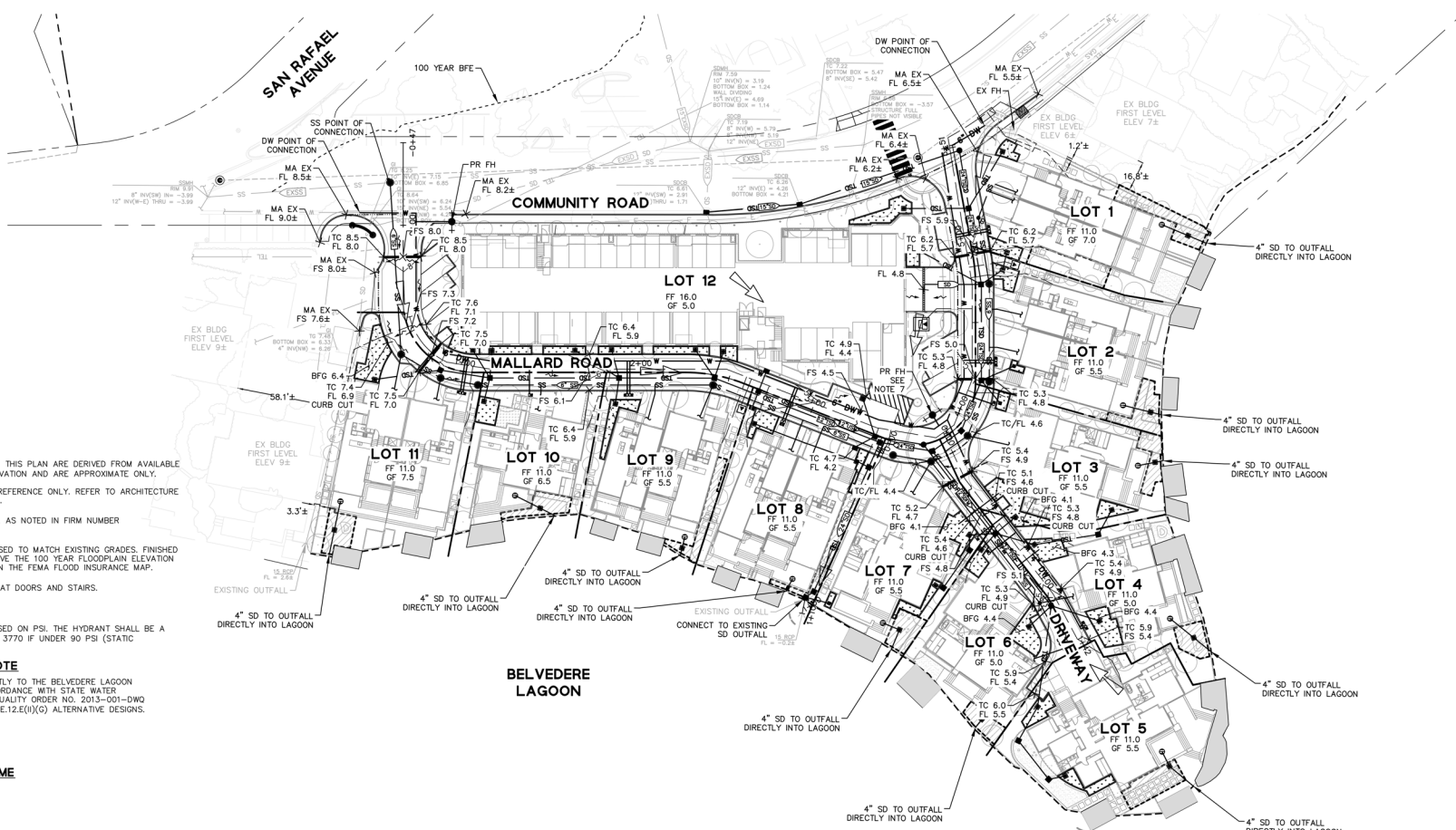
MALLARD POINTE

Belvedere, California

MALLARD POINTE
1951 LLC
 Project Sponsor

BKF BKF ENGINEERS
 1646 N. CALIFORNIA BLVD.
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 WALNUT CREEK, CA 94596
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 www.bkf.com

TM-3B



NOTES

1. THE UTILITIES AND OUTFALLS SHOWN ON THIS PLAN ARE DERIVED FROM AVAILABLE RECORD DATA AND/OR SURFACE OBSERVATION AND ARE APPROXIMATE ONLY.
2. PROPOSED BUILDINGS ARE SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURE DRAWINGS FOR ADDITIONAL INFORMATION.
3. FEMA FLOOD HAZARD ELEVATION AT 10', AS NOTED IN FIRM NUMBER 06041C0489E.
4. GARAGE FLOOR ELEVATIONS ARE PROPOSED TO MATCH EXISTING GRADES. FINISHED FLOOR ELEVATIONS WILL BE RAISED ABOVE THE 100 YEAR FLOODPLAIN ELEVATION PER BASE FLOOD ELEVATIONS SHOWN ON THE FEMA FLOOD INSURANCE MAP.
5. MAXIMUM 2% SLOPE IN ALL DIRECTIONS AT DOORS AND STAIRS.
6. UTILITY SIZES ARE PRELIMINARY ONLY.
7. PROPOSED FIRE HYDRANT SHALL BE BASED ON PSI. THE HYDRANT SHALL BE A CLOW 685 IF OVER 90 PSI OR A JONES 3770 IF UNDER 90 PSI (STATIC PRESSURE).

STORMWATER TREATMENT NOTE

1. RUNOFF FROM THE SITE DRAINS DIRECTLY TO THE BELVEDERE LAGOON FOR STORMWATER TREATMENT IN ACCORDANCE WITH STATE WATER RESOURCES CONTROL BOARD WATER QUALITY ORDER NO. 2013-001-DWQ SMALL MS4 GENERAL PERMIT SECTION E.12.E(1)(G) ALTERNATIVE DESIGNS.

PRELIMINARY CUT/FILL VOLUME

CUT = 500± CUBIC YARDS
 NET = 500± CUBIC YARDS OF EXPORT

LEGEND

	EXISTING PROPERTY LINE
	PROPOSED PROJECT BOUNDARY
	PROPOSED PROPERTY LINE
	BULKHEAD LIMITS
	100 YEAR BASE FLOOD ELEVATION
	ROAD CENTERLINE
	EXISTING STORM DRAIN LINE
	EXISTING SEWER LINE
	EXISTING WATER LINE
	PROPOSED TREATED STORM DRAIN LINE
	PROPOSED UNTREATED STORM DRAIN LINE
	PROPOSED STORM DRAIN FORCE MAIN
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED JOINT TRENCH LINE (FOR REFERENCE ONLY)
	GRADE BREAK
	UTILITY DIRECTION OF FLOW
	OVERLAND FLOW
	SURFACE FLOW
	BIORETENTION AREA
	SELF-RETAINING AREA
	TRANSFORMER

ABBREVIATIONS

BLDG	BUILDING	PL	PROPERTY LINE
BFE	BASE FLOOD ELEVATION	PR	PROPOSED
DW	DOMESTIC WATER	SD	STORM DRAIN
EX	EXISTING	SS	SANITARY SEWER
FF	FINISHED FLOOR	TC	TOP OF CURB
FS	FIRE HYDRANT	R/W	RIGHT OF WAY
FS	FINISHED SURFACE	W	WATER
FL	FLOW LINE		
GF	GARAGE FLOOR		
MA	MAXIMUM		
MAX	MINIMUM		
MN	MANHOLE		

GRADING, DRAINAGE, & UTILITIES

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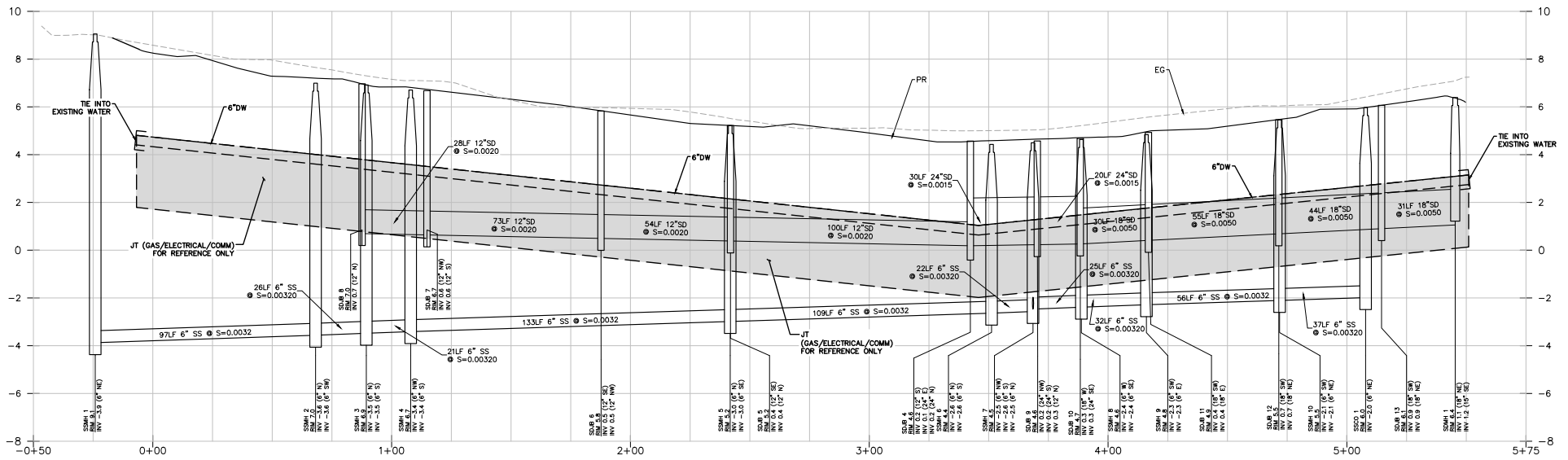
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BKF BKF ENGINEERS
 1646 N. CALIFORNIA BLVD.
 SUITE 400
 WALNUT CREEK, CA 94596
 (925) 940-2200
 www.bkf.com

TM-4A

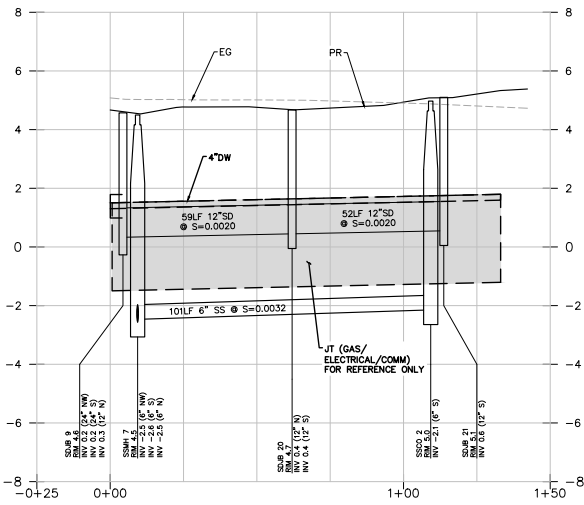
July 15, 2022
 Graphic Scale
 1" = 30'





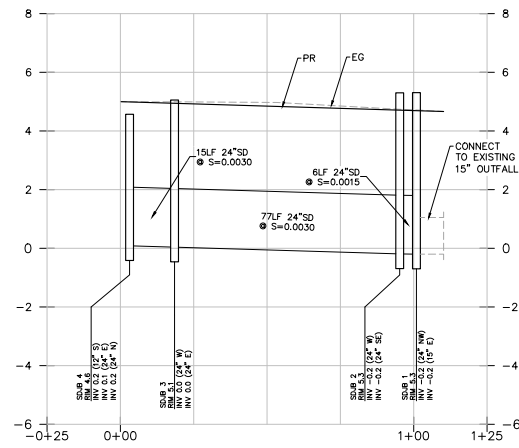
PROFILE - MALLARD RD -0+50.00 TO 5+50.00

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



PROFILE - DRIVEWAY -0+25.00 TO 1+50.00

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



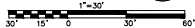
PROFILE - SD CULVERT -0+25.00 TO 1+25.00

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.

STREET PROFILES

July 15, 2022

Graphic Scale



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TM-4B

EROSION CONTROL NOTES

EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE GENERAL IN NATURE AND MAY NOT BE APPLICABLE DURING CERTAIN PHASES OF CONSTRUCTION. THE STABILIZED CONSTRUCTION ENTRANCE/EXIT SHOWN ON THESE DRAWINGS REFLECTS A CONDITION PRIOR TO THE DRIVEWAY BEING CONSTRUCTED WHEREAS FILTERS AT STORM WATER INLETS REFLECT A CONDITION AFTER THE STORM DRAIN SYSTEM HAS BEEN INSTALLED.

THE CONTRACTOR SHALL INTEGRATE APPROPRIATE MEASURES DURING EACH CONSTRUCTION PHASE TO ENSURE THAT SEDIMENT AND OTHER POLLUTANTS DO NOT ENTER THE STORM DRAIN SYSTEM.

THE CONTRACTOR SHALL USE WATER OR DUST PALLIATIVE TO MINIMIZE WIND EROSION. THE CONTRACTOR SHALL DESIGNATE AN AREA ON SITE TO STOCKPILE MATERIAL. THE STOCKPILED MATERIAL SHALL BE COVERED AT ALL TIMES TO PREVENT EROSION FROM WIND, RAIN AND STORM WATER RUNOFF.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE USED TO ENSURE THAT WATER ENTERING THE STORM DRAIN SYSTEM BELOW THE CONSTRUCTION SITE IS OF EQUIVALENT QUALITY AND CHARACTER AS THE WATER ABOVE THE SITE.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED IN FRONT OF INCOMPLETE STORM DRAIN SYSTEMS TO PREVENT DEBRIS AND SEDIMENT-LOADED WATER FROM ENTERING INTO THE PUBLIC STORM DRAIN SYSTEM. BEST MANAGEMENT PRACTICES SHALL BE USED WHEN DESIGNING AND INSTALLING SUCH DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTANT MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES TO THE SATISFACTION OF THE OWNER AND THE CITY OF BELVEDERE. EROSION AND SEDIMENT CONTROL MEASURES AND THEIR INSTALLATION SHALL BE ACCOMPLISHED USING BEST MANAGEMENT PRACTICES.

IF THE STORM DRAIN SYSTEM IS NOT INSTALLED PRIOR TO A PRECIPITATION EVENT, ADDITIONAL MEASURES SHALL BE TAKEN SUCH AS TEMPORARY SETTLING BASINS WHICH MEET THE SATISFACTION OF THE OWNER AND THE CITY OF BELVEDERE. SILT AND/OR CATCH BASINS MUST BE CLEANED OUT ON A REGULAR BASIS AFTER STORMS TO MAINTAIN DESIGN CAPACITY.

STORM WATER RUNOFF FROM THE CONSTRUCTION SITE SHALL BE DIRECTED TOWARD AN INLET WITH A SEDIMENT OR FILTRATION INTERCEPTOR PRIOR TO ENTERING THE STORM DRAIN SYSTEM.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING WATER THAT HAS BECOME POLLUTED DUE TO NOT TAKING NECESSARY EROSION AND SEDIMENT CONTROL ACTIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF MUD AND DEBRIS CARRIED ONTO SURROUNDING STREETS AND ROADS AS A RESULT OF CONSTRUCTION ACTIVITY ON THE SITE TO THE SATISFACTION OF THE TOWN OF TIBURON.

DENUDED OR DISTURBED SOILS SHALL BE PROTECTED USING BEST MANAGEMENT PRACTICES.

PRIOR TO AND DURING A PRECIPITATION EVENT, PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED BY THE CONTRACTOR SO THAT A MINIMUM OF SEDIMENT-LOADED RUNOFF LEAVES THE SITE.

THE CONTRACTOR IS TO INFORM ALL CONSTRUCTION SITE WORKERS ABOUT THE MAJOR PROVISIONS OF THE EROSION AND SEDIMENT CONTROL PLAN AND SEEK THEIR COOPERATION IN AVOIDING THE DISTURBANCE OF THESE CONTROL MEASURES.

BEST MANAGEMENT PRACTICES SHALL BE VISUALLY MONITORED ON A DAILY BASIS AND RECORDED IN AN INSPECTION CHECKLIST ON A WEEKLY BASIS. RAIN EVENT VISUAL MONITORING SHALL BE PERFORMED WITHIN 48 HOURS PRIOR TO AN ANTICIPATED RAIN EVENT, DAILY DURING A RAIN EVENT AND WITHIN 48 HOURS FOLLOWING A RAIN EVENT. REMOVE SEDIMENTS WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE BARRIER AND REPLACE FILTER DEVICES AS NECESSARY TO ENSURE PROPER FUNCTION.

UNSTABILIZED AREAS SHALL BE REPAIRED AS SOON AS POSSIBLE AFTER BEING DAMAGED.

GRADED OR DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE.

ENTRANCE TO THE PROJECT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED ROCK THAT DRAINS INTO A SEDIMENT TRAP.

SEDIMENT SPILLED, DROPPED, OR TRACKED INTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY USING BEST MANAGEMENT PRACTICES.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR PURPOSE SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

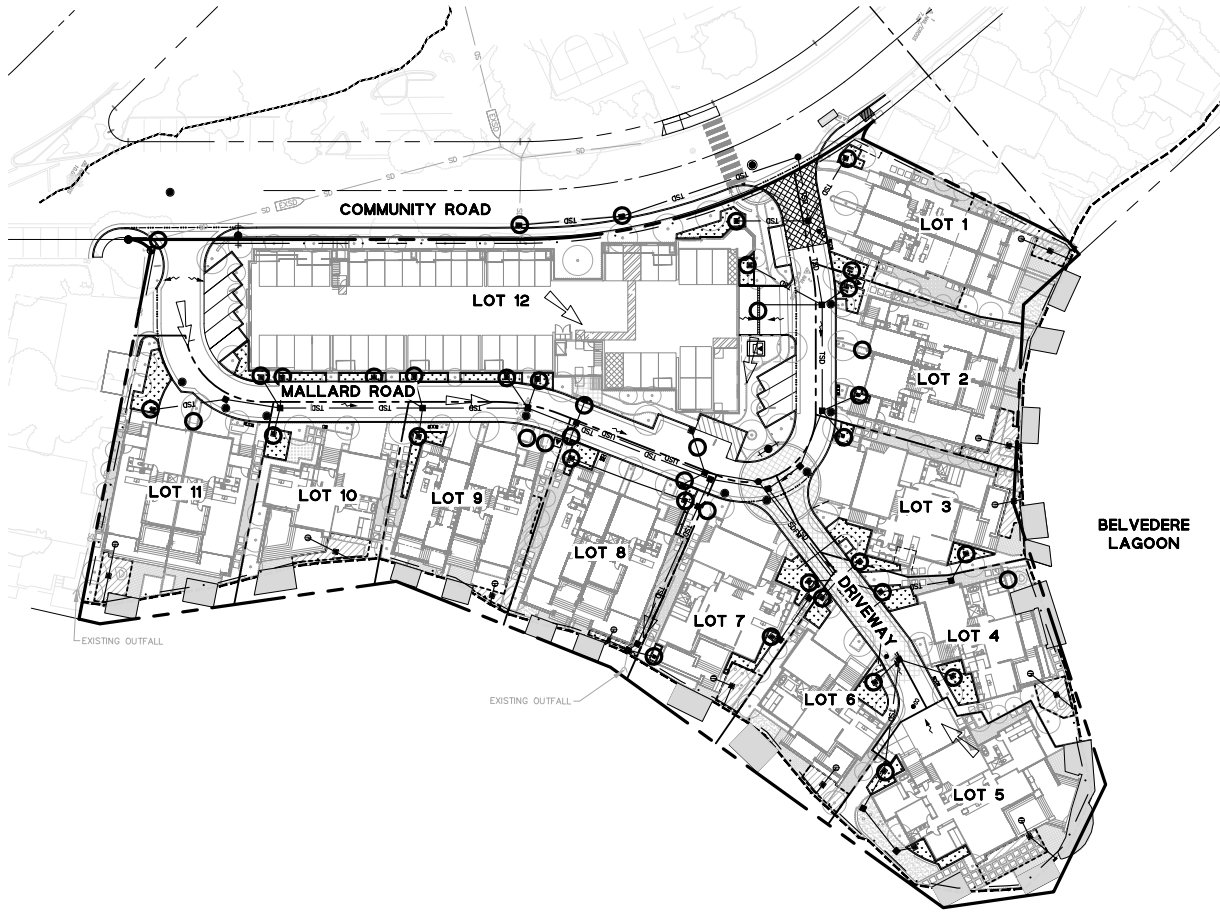
EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WHEN THEY ARE NO LONGER FUNCTIONING IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

THE CONTRACTOR SHALL DISPOSE OF UNUSED CONSTRUCTION MATERIALS AND WASTE PRIOR TO THE COMPLETION OF CONSTRUCTION.

AFTER CONSTRUCTION IS COMPLETE, STORM DRAIN SYSTEMS ASSOCIATED WITH THIS PROJECT SHALL BE INSPECTED AND CLEARED OF ACCUMULATED SEDIMENTS AND DEBRIS.

GRADED AREAS TO BE SEED FOR EROSION CONTROL SHALL USE GRASS SEED AT THE RATE OF 75-100 POUNDS PER ACRE. SEEDED AREAS SHALL BE IRRIGATED TO ENSURE COVER IS ROOTED.

HYDROSEEDING SHALL BE EITHER APPLIED MECHANICALLY OR BY HYDROSEEDING. HYDROSEEDING REQUIRES THE APPLICATION OF FIBER AND STABILIZING EMULSION. MECHANICAL APPLICATION SHALL REQUIRE ROLLING, TAMPING, OR OTHERWISE WORKING THE SEED APPROXIMATELY 0.5-INCHES INTO THE TOPSOIL.



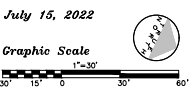
LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROJECT BOUNDARY
- PROPOSED PROPERTY LINE
- BULKHEAD LIMITS
- 100 YEAR BASE FLOOD ELEVATION
- ROAD CENTERLINE
- EXISTING SEWER LINE
- PROPOSED STORM DRAIN LINE
- SURFACE FLOW
- OVERLAND RELEASE
- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- INLET PROTECTION

ABBREVIATIONS

- BLDG BUILDING
- BFE BASE FLOOD ELEVATION
- DW DOMESTIC WATER
- EX EXISTING
- FF FINISHED FLOOR
- FH FIRE HYDRANT
- FS FINISHED SURFACE
- FL FLOW LINE
- GF GARAGE FLOOR
- MA WATCH
- MAX MAXIMUM
- MIN MINIMUM
- PL PROPERTY LINE
- PR PROPOSED
- SD STORM DRAIN
- SS SANITARY SEWER
- TC TOP OF CURB
- R/W RIGHT OF WAY
- W WATER

EROSION CONTROL PLAN

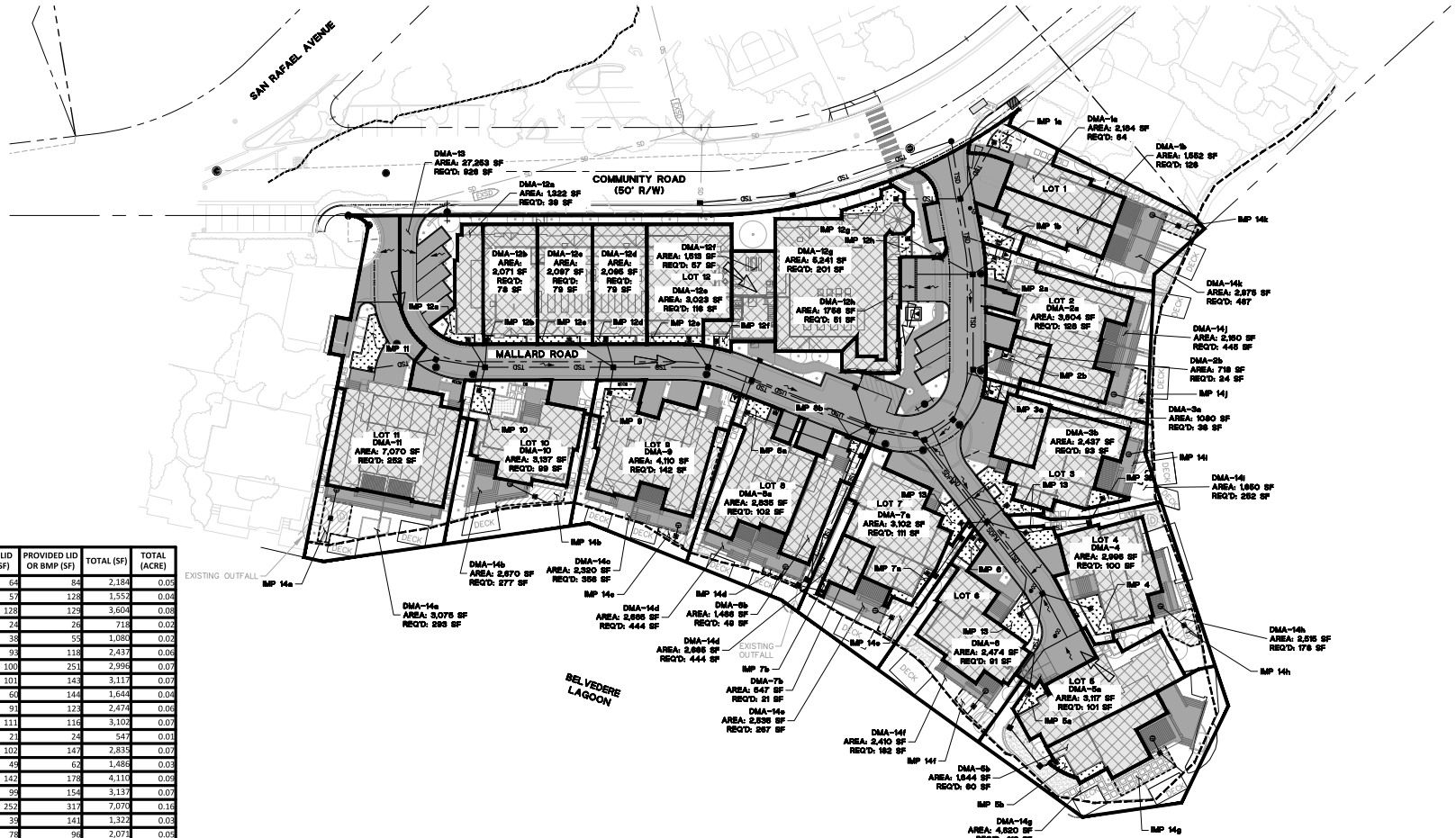


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DMA SUMMARY TABLE

BOUNDARY WATERSHED	CONVENTIONAL SURFACE (SF)			DRAINS TO	REQUIRED LID OR BMP (SF)	PROVIDED LID OR BMP (SF)	TOTAL (SF)	TOTAL (ACRES)
	ROOF	HARDSCAPE	LSP					
DMA-1a	1,287	151	662	IMP 1a	64	84	2,100	0.05
DMA-1b	1,285	94	371	IMP 1b	57	124	1,555	0.04
DMA-2a	3,023	72	370	IMP 2a	138	124	3,600	0.08
DMA-2b	443	127	146	IMP 2b	24	24	718	0.02
DMA-2c	909		116	IMP 3a	38	55	1,080	0.03
DMA-2d	2,319			IMP 3b	93	118	2,437	0.06
DMA-4	2,253	154	338	IMP 4	100	251	2,996	0.07
DMA-5a	2,373		601	IMP 5a	101	143	3,117	0.07
DMA-5b	1,500			IMP 5b	60	144	1,644	0.04
DMA-6	2,252		99	IMP 6	91	123	2,474	0.06
DMA-7a	2,704		282	IMP 7	111	116	3,102	0.07
DMA-7b	523			IMP 7b	21	24	547	0.01
DMA-8a	2,455	60	173	IMP 8a	102	147	2,835	0.07
DMA-8b	1,019	151	254	IMP 8b	49	62	1,486	0.03
DMA-9	3,220	207	505	IMP 9	142	178	4,110	0.09
DMA-10	2,070	220	693	IMP 10	99	154	3,137	0.07
DMA-11	4,025	2,121	607	IMP 11	252	317	7,070	0.16
DMA-12a	908		273	IMP 12a	34	141	1,322	0.03
DMA-12b	1,945		30	IMP 12b	78	96	2,071	0.05
DMA-12c	1,967		34	IMP 12c	79	96	2,097	0.05
DMA-12d	1,970		29	IMP 12d	79	96	2,099	0.05
DMA-12e	2,895			IMP 12e	116	128	3,023	0.07
DMA-12f	1,412		38	IMP 12f	57	63	1,513	0.03
DMA-12g	5,020			IMP 12g	201	221	5,241	0.12
DMA-12h	897	259	508	IMP 12h	51	92	1,756	0.04
DMA-13		22,129	4,096	IMP 13	926	1,028	27,253	0.63
DMA-14a		583	2,168	IMP 14a	293	322	3,075	0.07
DMA-14b		553	1,814	IMP 14b	277	303	2,670	0.06
DMA-14c		711	1,221	IMP 14c	356	388	2,320	0.05
DMA-14d		887	1,321	IMP 14d	444	457	2,665	0.06
DMA-14e		534	1,684	IMP 14e	267	317	2,533	0.06
DMA-14f		362	1,805	IMP 14f	181	243	2,410	0.06
DMA-14g		832	3,334	IMP 14g	416	454	4,620	0.11
DMA-14h		350	1,877	IMP 14h	178	282	2,515	0.06
DMA-14i		504	840	IMP 14i	252	306	1,650	0.04
DMA-14j		890	843	IMP 14j	445	447	2,180	0.05
DMA-14k		933	1,575	IMP 14k	467	467	2,975	0.07
OVERALL TOTAL	50,684	32,888	28,515				120,079	2.76

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROJECT BOUNDARY
- PROPOSED PROPERTY LINE
- BUILDING SETBACK
- BULKHEAD LIMITS
- 100 YEAR BASE FLOOD ELEVATION
- ROAD CENTERLINE
- DRAINAGE MANAGEMENT AREA
- ROOF AREA
- IMPERVIOUS AREA
- LANDSCAPE AREA
- BIORETENTION AREA
- SELF-RETAINING AREA
- OVERLAND FLOW

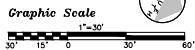
NOTES

- PROPOSED BUILDINGS ARE SHOWN FOR REFERENCE ONLY, REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

ABBREVIATIONS

- DMA DRAINAGE MANAGEMENT AREA
- REQ'D REQUIRED
- SF SQUARE FEET

July 15, 2022



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STORMWATER CONTROL PLAN

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