

JUNIPERO SERRA FREEWAY

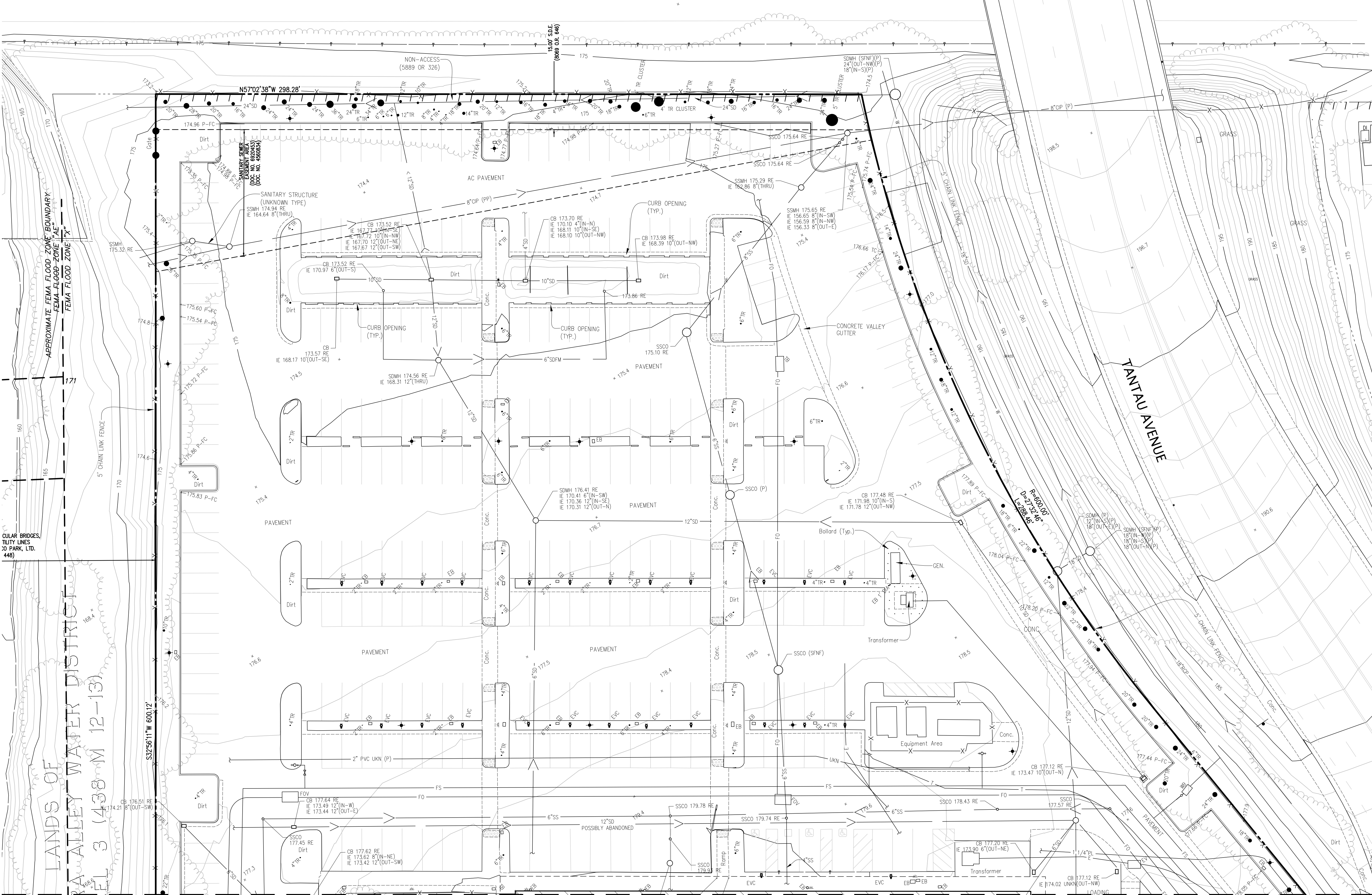
- THIS PLOT WAS PREPARED FROM INFORMATION FURNISHED IN A PRELIMINARY TITLE REPORT, PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY DATED AS OF JULY 22, 2009, ORDER NUMBER NCS-406298-SIC. NO LIABILITY IS ASSUMED FOR MATTERS OF RECORD NOT STATED IN SAID PRELIMINARY TITLE REPORT THAT MAY AFFECT THE TITLE LINES, OR EXCEPTIONS, OR EASEMENTS OF THE PROPERTY.
- ALL DISTANCES AND ELEVATIONS SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF.
- THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY 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). HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
- PHYSICAL ITEMS SHOWN ON THIS SURVEY ARE LIMITED TO THOSE ITEMS VISIBLE AS OF THE DATE OF THIS SURVEY. SUBSURFACE STRUCTURES, IF ANY, ARE NOT SHOWN. SAID SUBSURFACE OBJECTS MAY INCLUDE, BUT ARE NOT LIMITED TO, CONCRETE FOOTINGS, SLABS, SHORING, STRUCTURAL PILES, UTILITY VAULTS, PIPING, UNDERGROUND TANKS, AND ANY OTHER SUBSURFACE STRUCTURES NOT REVEALED BY A SURFACE INSPECTION.
- THE SUBJECT PROPERTY IS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR SANTA CLARA COUNTY, CALIFORNIA, MAP NUMBER 060503000M FOR COMMUNITY NUMBER 060339 (CITY OF CLIPPERTON), WITH AN EFFECTIVE DATE OF MAY 18, 2009, AS BEING LOCATED IN FLOOD ZONE "X". ACCORDING TO FEMA THE DEFINITION OF ZONE "X" IS: AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OF WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.
FEMA BASE FLOOD ELEVATIONS ARE BASED ON NAVD83 DATUM.
- BENCHMARK: BM 134 (COUNTY OF SANTA CLARA). ELEVATIONS SHOWN HEREON ARE BASED ON (NAVD83) ELEVATION = 172.82 FEET.
- BASIS OF BEARINGS: THE BEARING OF SOUTH 58°14'33" EAST TAKEN ON THE CENTER LINE OF VALLEJO PKWY AS SHOWN ON THAT CERTAIN MAP FILED FOR RECORD ON MARCH 26, 1976, IN BOOK 439 OF MAPS AT PAGES 12 AND 13, OFFICIAL RECORDS OF SANTA CLARA COUNTY WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON.
- CORNER RECORD NOTE: THE DEVELOPER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND FILING OF PRE-CONSTRUCTION AND POST-CONSTRUCTION CORNER RECORDS FOR ANY MONUMENTS OR PROPERTY CORNERS SHOWN HEREON THAT MAY BE DESTROYED DURING IMPROVEMENTS TO THE SUBJECT PROPERTY AS DEFINED IN SECTION 8771(B) OF THE PROFESSIONAL LAND SURVEYORS ACT.
- THE AERIAL MAPPING WAS PREPARED USING COMPUTER ASSISTED, PHOTODIAGRAMMETRIC METHODS BY COOPER AERIAL SURVEYS CO., IN PHOENIX ARIZONA, JOB NUMBER 2008015. IN AREAS OF DENSE VEGETATION, ACCURACY OF CONTOURS MAY DEVIATE FROM ACCEPTED ACCURACY STANDARDS. DATE OF PHOTOGRAPHY 08-13-20, ORIGINAL COMPILED MAP SCALE 1"=40'. CONTOUR INTERVAL 1 FOOT. THE GRID IS BASED ON PHOTODIAGRAMMETRIC METHODS COMPILED ON DIGITAL STEREO WORKSTATIONS USING AERIAL PHOTOGRAPHY, CONTROL SURVEY PERFORMED BY KIER & WRIGHT, SANTA CLARA, CA.

ABBREVIATIONS

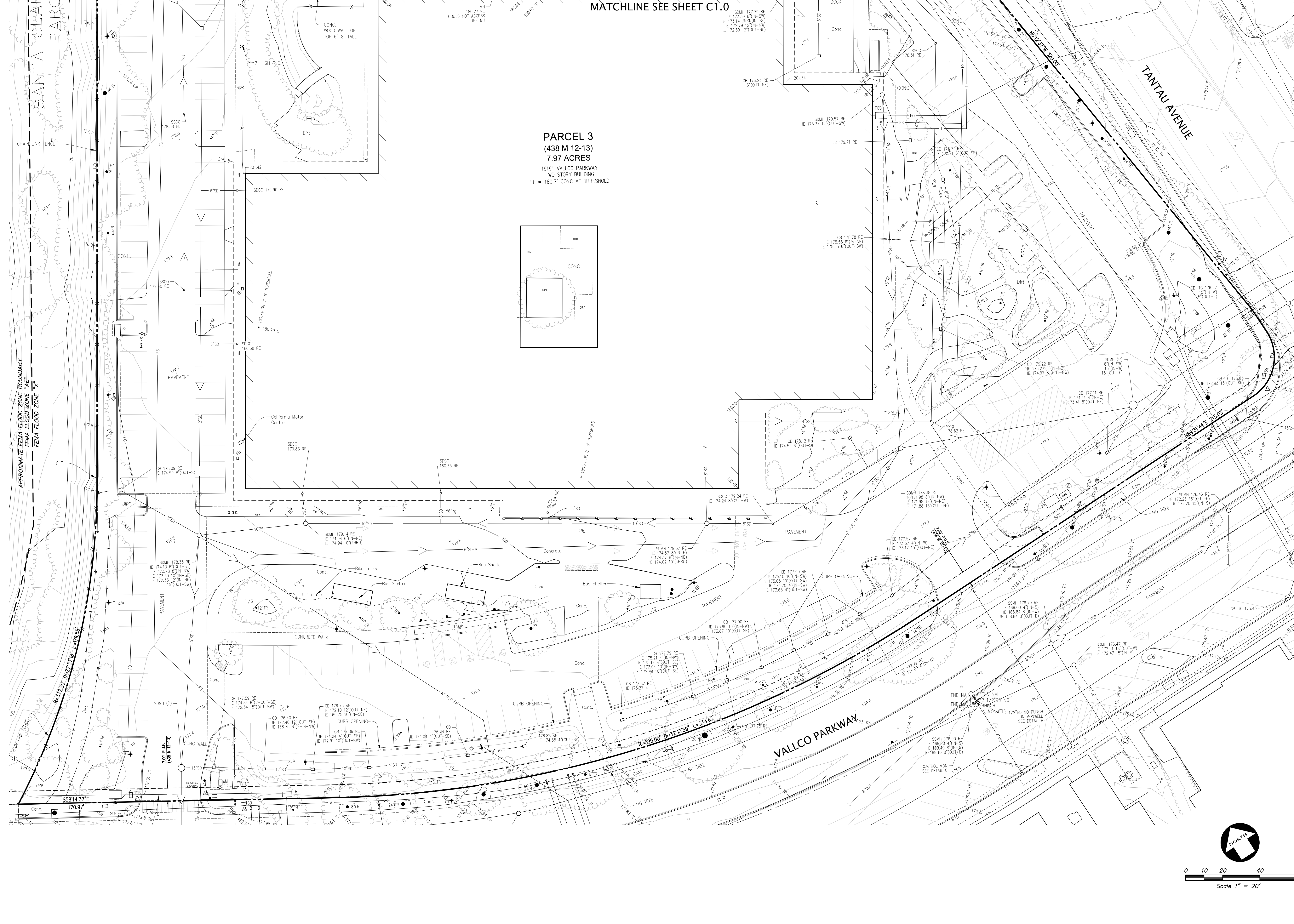
ASPH	ASPHALT	L/S	LANDSCAPE
ASR	AUTOMATIC SPRINKLER RISER	N	NORTH
BD	BRASS DISC	(P)	PER PLAN
BFP	BACK FLOW PREVENTER	PL	PROPERTY LINE
BL	BUILDING	RE	RIM ELEVATION
BLRD	BOLLARD	RC	REINFORCED CONCRETE PIPE
CB	CATCH BASIN	ROW	RIGHT OF WAY
CLF	CHAIN LINK FENCE	S	SOUTH
CD	CLEANOUT	S.D.E.	STORM DRAIN EASEMENT
COMM	COMMUNICATION	SDMH	STORM DRAIN MANHOLE
CONC	CONCRETE	SSCO	SANITARY SEWER CLEANOUT
DI	DRAIN INLET	SSMH	SANITARY SEWER MANHOLE
EB	ELECTRIC BOX	SW	SOUTHWEST
ESMT	EASEMENT	(T)	TOTAL
EY	ELECTRIC VAULT	TW	TOP OF WALL
FC	FACE OF CURB	TELE	TELEPHONE
FD	FOUND	TD	TELEPHONE BOX
FDC	FIRE DEPARTMENT CONNECTION	TD	TRUNCATED DOMES
FF	FINISH FLOOR	TYP.	TYPICAL
FNC	FENCE	UB	UTILITY BOX
FW	FACE OF WALL	W	WEST
GEN.	GENERATOR	WB	WATER BOX
ICP	IRRIGATION CONTROL PEDESTAL	WM	WATER METER
IB	IRRIGATION BOX		
IE	INVERT ELEVATION		
IP	IRON PIPE		
OR	OFFICIAL RECORD		

LEGEND

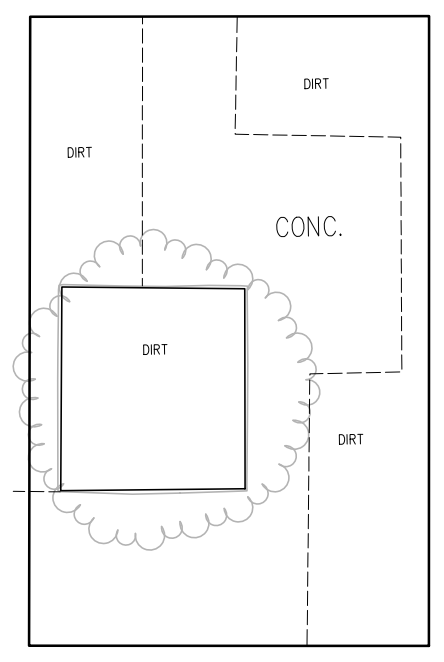
	BUILDING LINE
	CENTERLINE
	CONCRETE/BLOCK WALL
	CONCRETE CURB
	CONCRETE CURB & GUTTER
	MAJOR CONTOUR LINE
	DRIVEAWAY
	EASEMENT LINE
	EDGE OF PAVEMENT
	ELECTRIC LINE
	FENCE LINE
	FIRE SERVICE LINE & VALVE
	GAS LINE-VALVE & METER
	IRRIGATION WATER LINE
	JOINT TRENCH LINE
	LOT LINE
	MONUMENT/MONUMENT LINE
	PROPERTY LINE
	RETAINING WALL
	RECLAIMED WATER LINE & VALVE
	SANITARY SEWER LINE-MANHOLE & CLEANOUT
	SIDEWALK
	SPOT ELEVATION
	STORM DRAIN LINE-MANHOLE & CATCH BASIN
	STORM DRAIN LINE-MANHOLE & CATCH BASIN
	STREET LIGHT CONDUIT LINE
	TELEPHONE LINE
	TRAFFIC SIGNAL CONDUIT LINE
	CABLE TELEVISION LINE
	UNKNOWN UTILITY LINE
	WATER LINE & VALVE
	ACCESSIBLE PARKING SYMBOL
	AREA DRAIN
	AUTOMATIC SPRINKLER RISER
	BACKFLOW PREVENTION DEVICE
	ELECTRODER
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	GAS METER
	POST INDICATOR POLE
	TRANSFORMER
	TRAFFIC SIGN
	TREE
	UTILITY BOX
	UTILITY LINE MARKER
	WALK-BOLLARD LIGHT
	WATER VALVE



MATCHLINE SEE SHEET C1.1



PARCEL 3
 (438 M 12-13)
 7.97 ACRES
 19191 VALICO PARKWAY
 TWO STORY BUILDING
 FF = 180.7' CONC AT THRESHOLD



NOTES

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ABBREVIATIONS

ASPH	ASPHALT	L/S	LANDSCAPE
ASR	AUTOMATIC SPRINKLER RISER	N	NORTH
BD	BRASS DISC	(P)	PER PLAN
BFP	BACK FLOW PREVENTER	PL	PROPERTY LINE
BL	BUILDING	RE	RIM ELEVATION
BLRD	BOLLARD	RCP	REINFORCED CONCRETE PIPE
CB	CATCH BASIN	ROW	RIGHT OF WAY
CLF	CHAIN LINK FENCE	SCD	SOUTH SIDE
CO	CLEANOUT	S.D.E	STORM DRAIN EASEMENT
COMM	COMMUNICATION	SDMH	STORM DRAIN MANHOLE
CONC	CONCRETE	SSCO	SANITARY SEWER CLEANOUT
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EB	ELECTRIC BOX	SW	SOUTHWEST
ESMT	EASEMENT	(T)	TOTAL
EV	ELECTRIC VAULT	TW	TOP OF WALL
FC	FACE OF CURB	TEL	TELEPHONE
FD	FIRE DEPARTMENT CONNECTION	TB	TELEPHONE BOX
FF	FINISH FLOOR	TD	TRUNCATED DOMES
FNC	FENCE	TYP.	TYPICAL
FW	FACE OF WALL	UB	UTILITY BOX
GEN	GENERATOR	W	WEST
IOP	IRRIGATION CONTROL PEDESTAL	WB	WATER BOX
IB	IRRIGATION BOX	WM	WATER METER
IE	INVERT ELEVATION		
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OR	OFFICIAL RECORD		

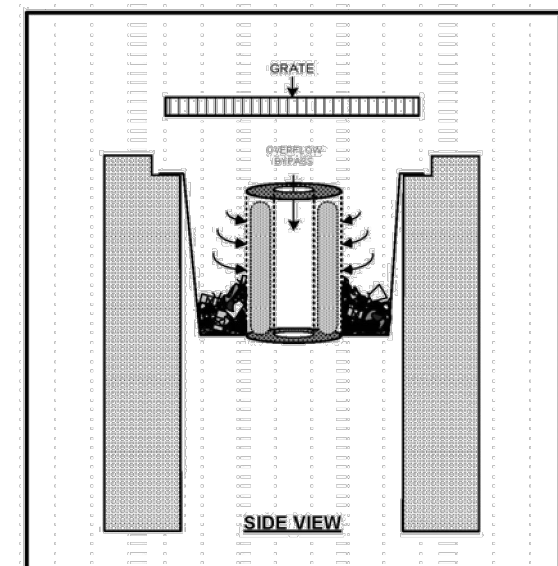
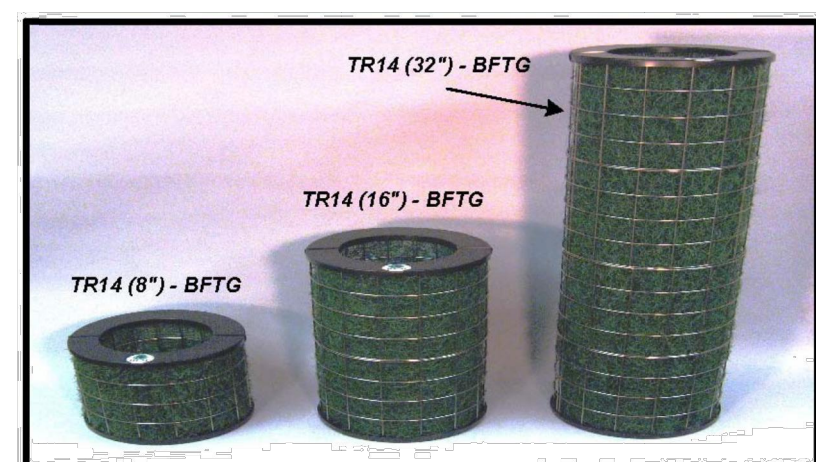
LEGEND

	BUILDING LINE
	CENTERLINE
	CONCRETE BLOCK WALL
	CONCRETE CURB
	CONCRETE CURB & GUTTER
	MAJOR CONTOUR LINE
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	ELECTRIC POLE
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	FIRE HYDRANT
	GAS METER
	POST INDICATOR VALVE
	POWER POLE/JOINT POLE
	TRANSFORMER
	TRAFFIC SIGN
	TREE
	UTILITY BOX
	UTILITY LINE MARKER
	WALK-BOLLARD LIGHT
	WATER VALVE

Catchbasin Insert, Full Capture Device

REM-1 Triton Bioflex Drop Inlet Trash Guard

Catchbasin filter insert

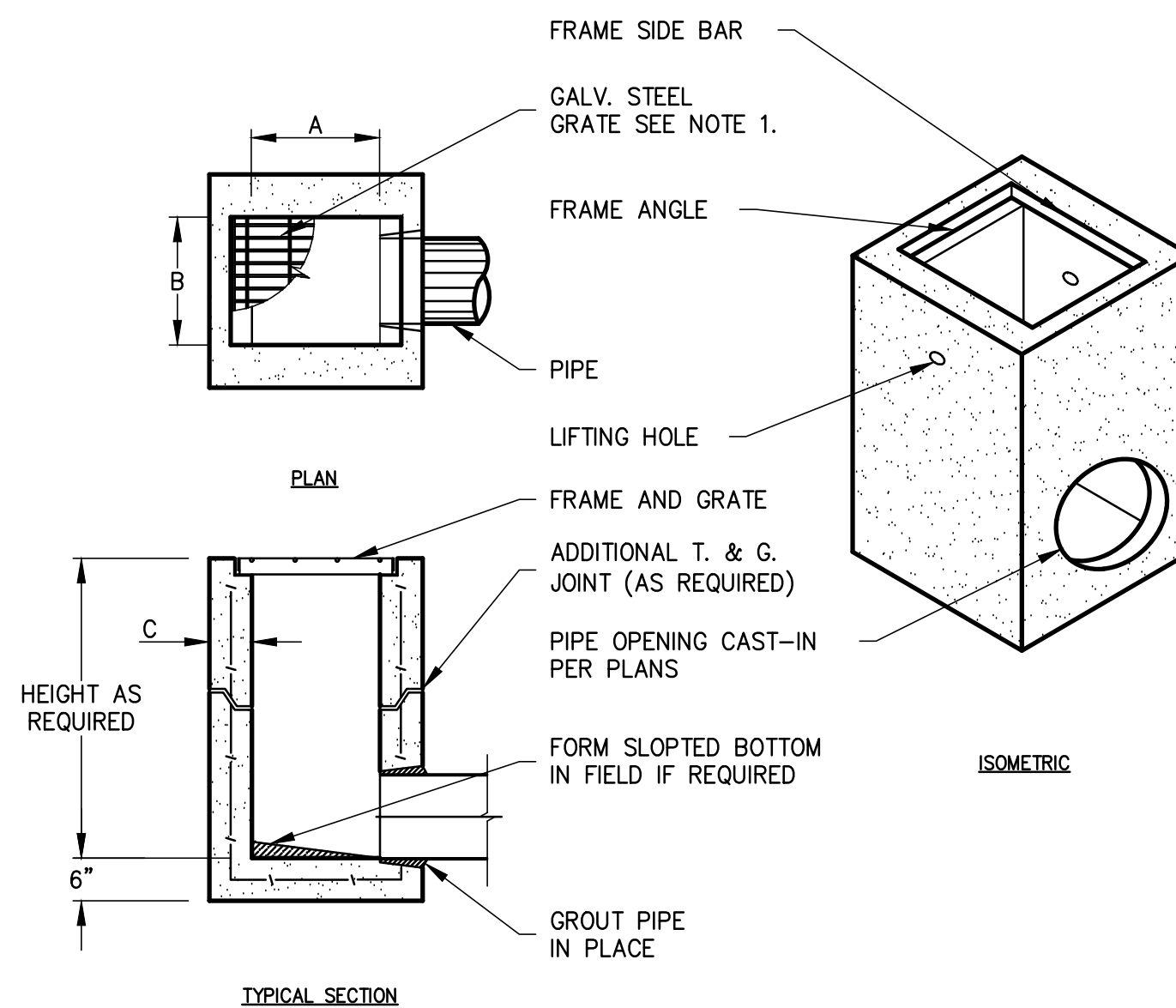


<p>Company Contact: Revel Environmental Manufacturing, Inc., Concord, CA Sales contact: Marcel Sloane, (925)-676-4736 Marcel@remfilters.com http://remfilters.com</p>	<p>Replacement Parts: Available, Replacement Filters</p>
<p>Storage capacity: Depends on each catchbasin's configuration, size of filter, etc.</p>	<p>Warranty: 1 yr. or 6 if REM contracts to do maintenance</p>
<p>Vendor's maintenance estimate: The filter cleaning process and Bioflex media replacement should take no more than 15 minutes per filter. Maintained when debris accumulates up to 80% of the filter's capacity. Minimum 3 times per year.</p>	<p>Delivery Time: Within three weeks from receipt of order</p>
<p>Material: High density polyethylene, 304 stainless steel, polyester fiber mesh, coir fibers, water-based latex</p>	<p>Pricing: See over.</p>
<p>Installed: Dublin</p>	

Comments from reference checks
Device effectiveness in capturing trash
Good, effective device in capturing trash (no complaints from the public or flooding occurring in the street).

Maintenance
Maintenance included 3 times a year but at a reasonable price by a contractor. Disposal of filters is an additional maintenance consideration (and an extra service also provided by cleaning contractor)

Other
Good customer service from vendor. Easy installation under the vendor's scheduled time quote. Some modifications were needed for installation based on field conditions. Optional hydrocarbon (oil/grease) removal is also available.



NOTES:

- FRAMES AND GRATES MAY BE SPECIFIED FOR PEDESTRIAN OR H2O TRAFFIC LOADING. ALL GRATES ARE BICYCLE PROOF. OPTIONAL GRATE LOCKING DEVICE AVAILABLE ON REQUEST SEE DRAWING "LOCK" ON PAGE 1-7 OF THE CENTRAL PRECAST CATALOG. CLOSED-MESH GRATES OR CAST IRON FRAME AND GRATES ARE AVAILABLE ON REQUEST.
- FOR SURFACE AND DISCHARGE OPTIONS AVAILABLE SEE DRAWING NO. "DI-50" PAGE 1-6 AND "DI-50" PAGE 1-5 OF THE CENTRAL PRECAST CATALOG.
- FRAMES AND GRATES DETAILS SEE PAGES 1-8, 1-9, AND 1-10 OF THE CENTRAL PRECAST CATALOG.
- WALL THICKNESSES ON ALL D.I.S. CAN BE CHANGED UPON REQUEST. 5" 18" WIDE D.I.'S REPLACE THE OLD 16" WIDE BOX BK & 1K.
- ALL CATCH BASINS WILL BE OUTFITTED WITH TRASH CAPTURE DEVICES PER DETAIL 11 ON C2.1

MODEL No.	CPC MODEL NAME	A IN	A MM	B IN	B MM	C IN	C MM
CB1212	EK	12	300	12	300	4	100
CB1818	CK*	18	450	18	450	5	125
CB1824	1K	18	450	24	600	5	125
CB2424	2K*	24	600	24	600	5	125
CB2430	3K	24	600	30	750	5	125
CB3030	5K	30	750	30	750	6	150
CB2436	1L	24	600	36	900	6	150
CB3636	1M	36	900	36	900	6	150
CB2448	3L	24	600	48	1200	6	150
CB3648	3M	36	900	48	1200	6	150
CB4848	1R	48	1200	48	1200	6	150

TRASH CAPTURE DEVICE

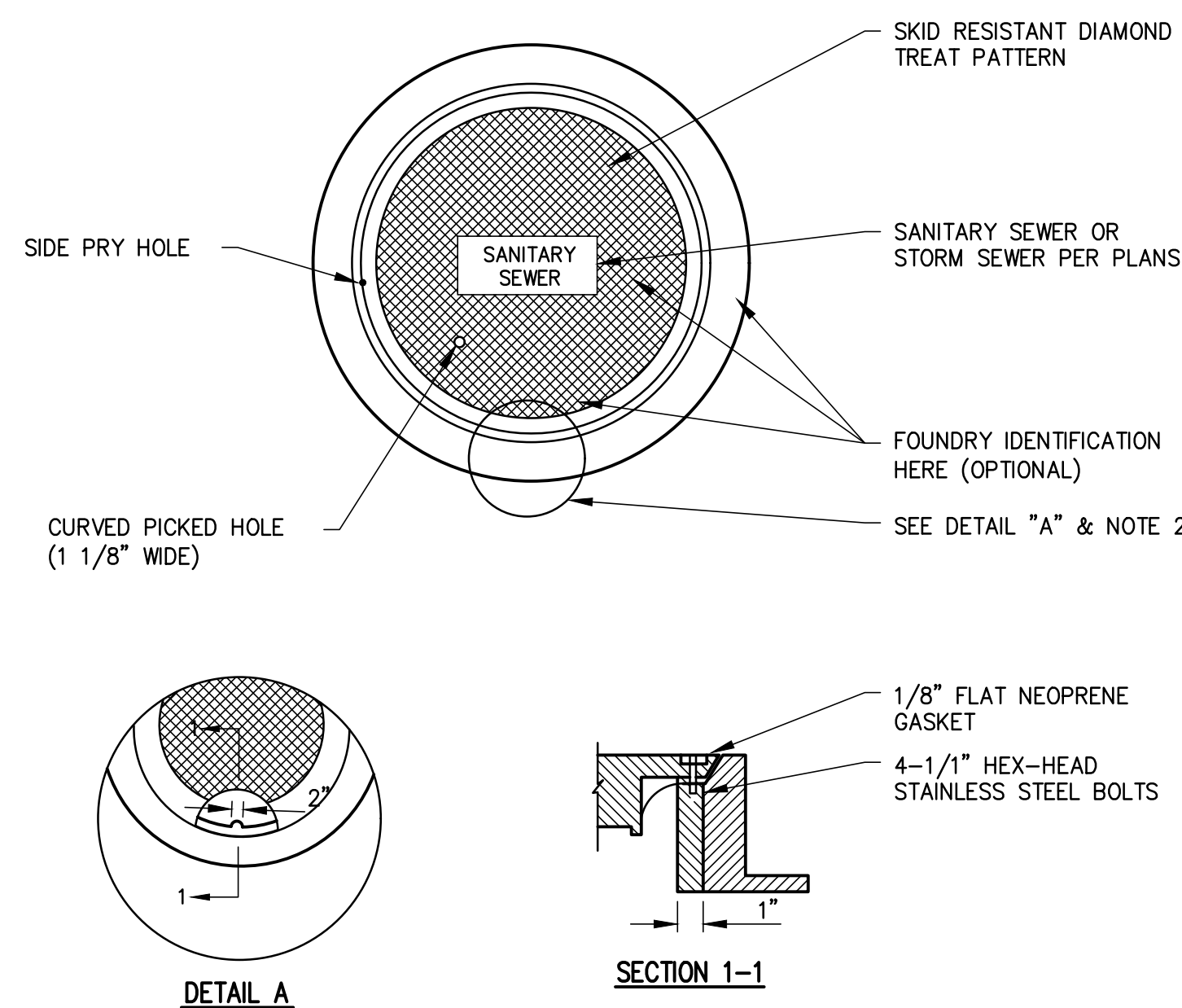
NOT TO SCALE

11

CATCH BASIN

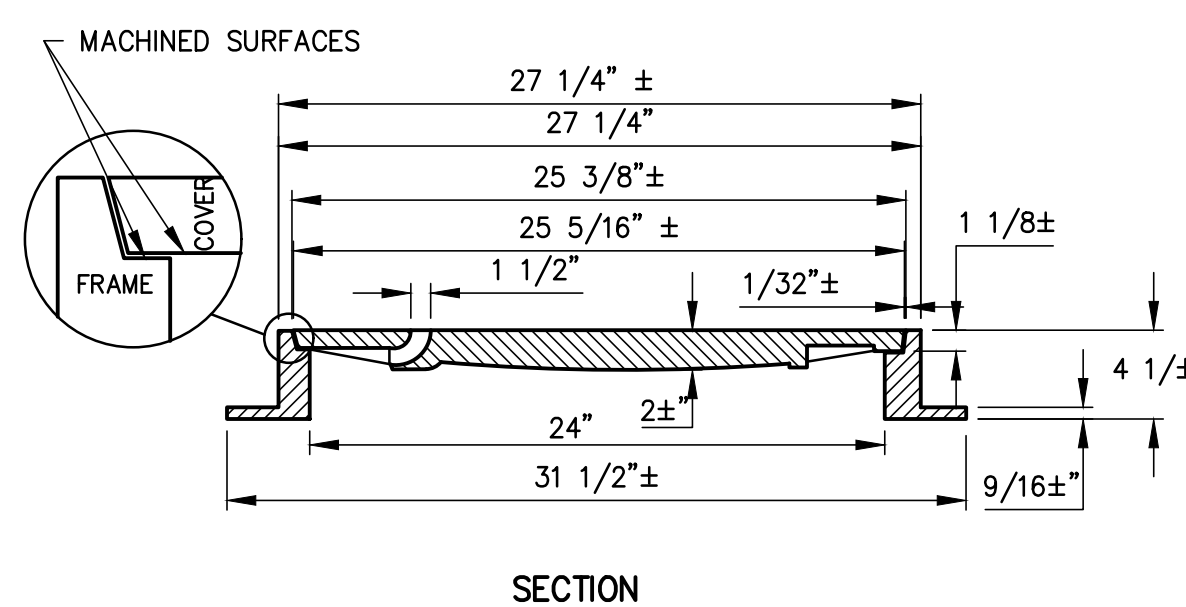
NOT TO SCALE

9



DETAIL A

SECTION 1-1



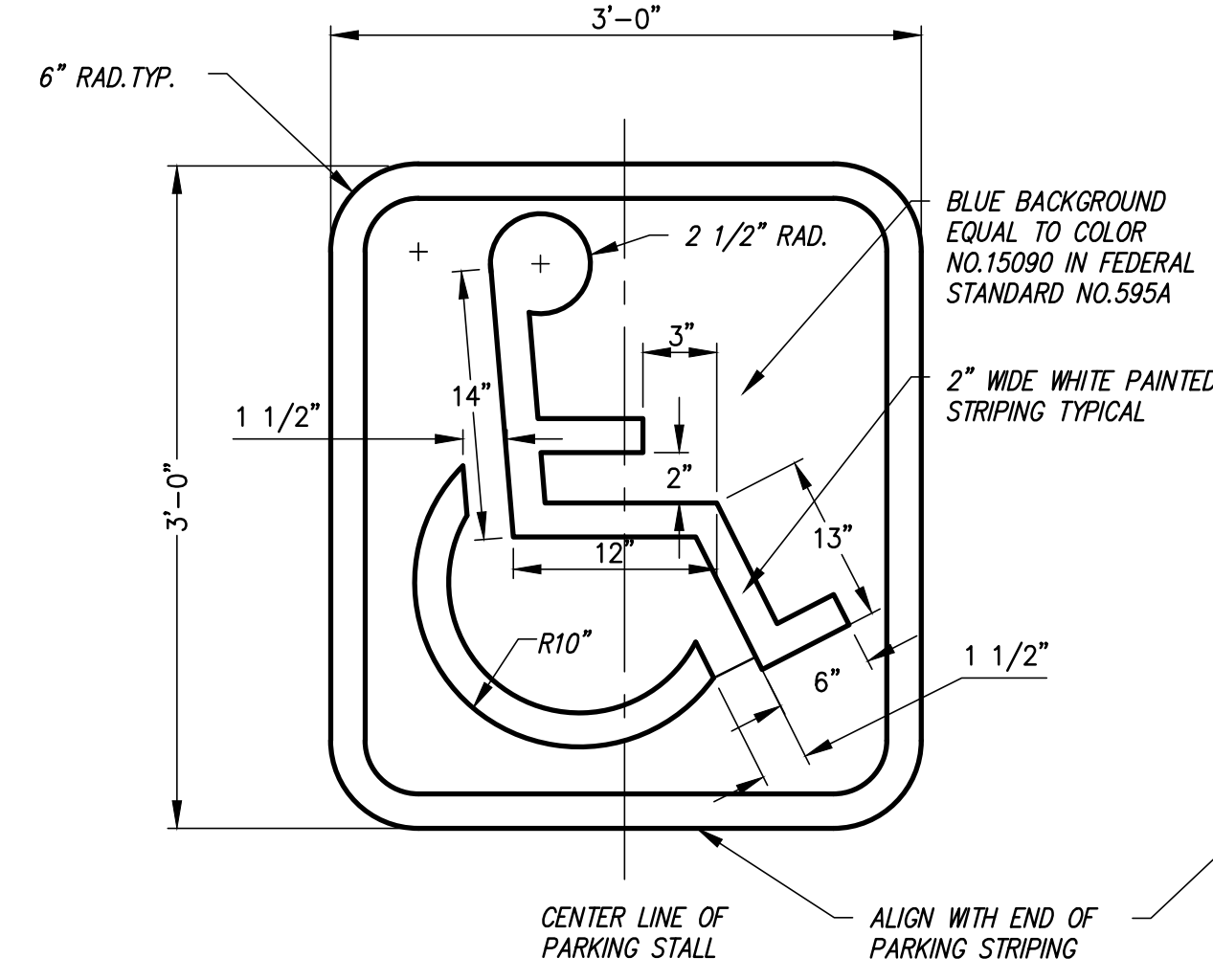
SECTION

- NOTES:
- MINIMUM WEIGHT OF SET 320 LBS.
 - ADDED BOSS TO FRAME (4 ea. @ 90°) FOR HOLDDOWN BOLTS. PRESSURE TYPE MANHOLES TO BE USED ONLY WHERE CALLED FOR ON THE PLANS.

STANDARD MANHOLE FRAME AND COVER

NOT TO SCALE

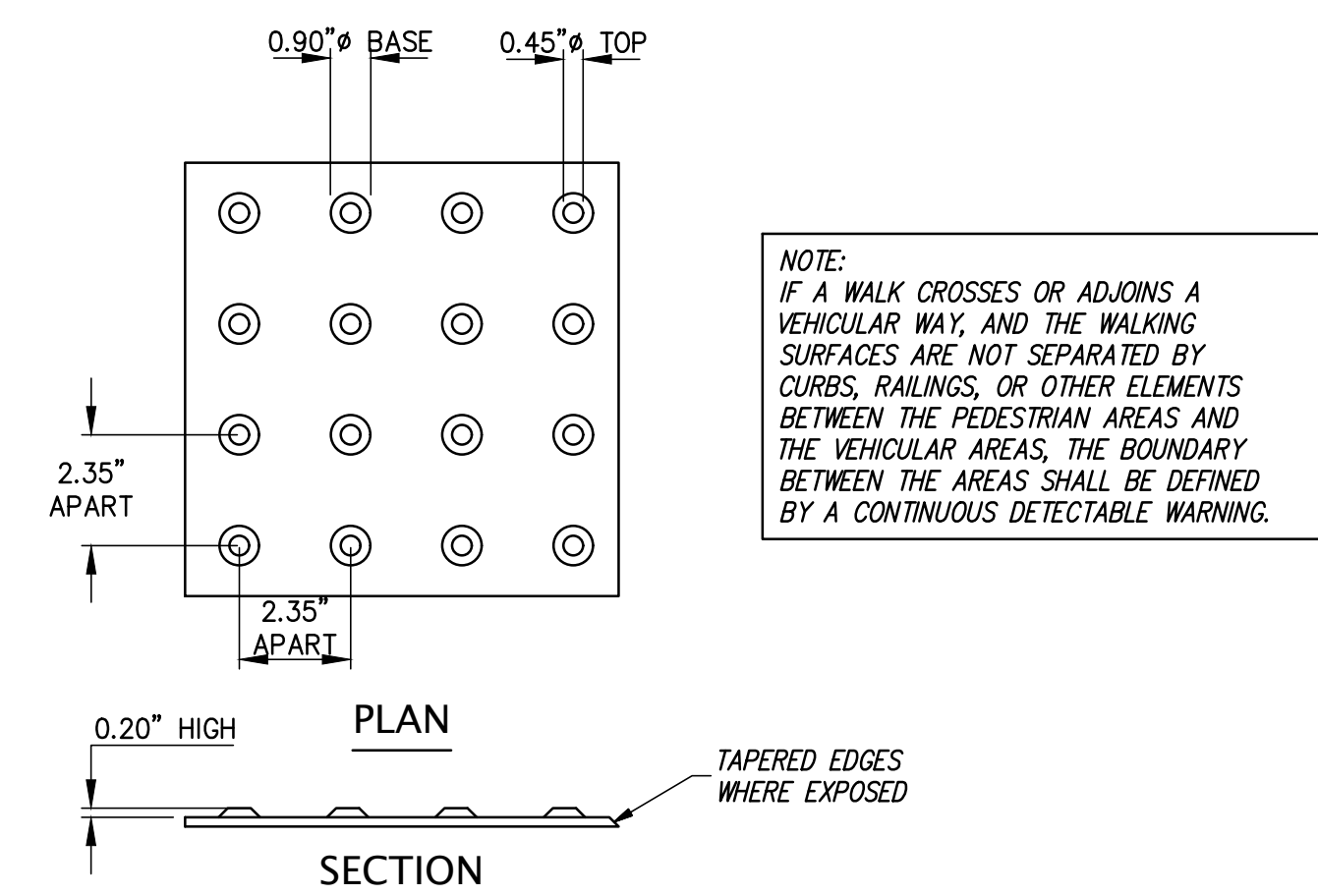
10



TYPICAL ACCESSIBLE PARKING SYMBOL

NOT TO SCALE

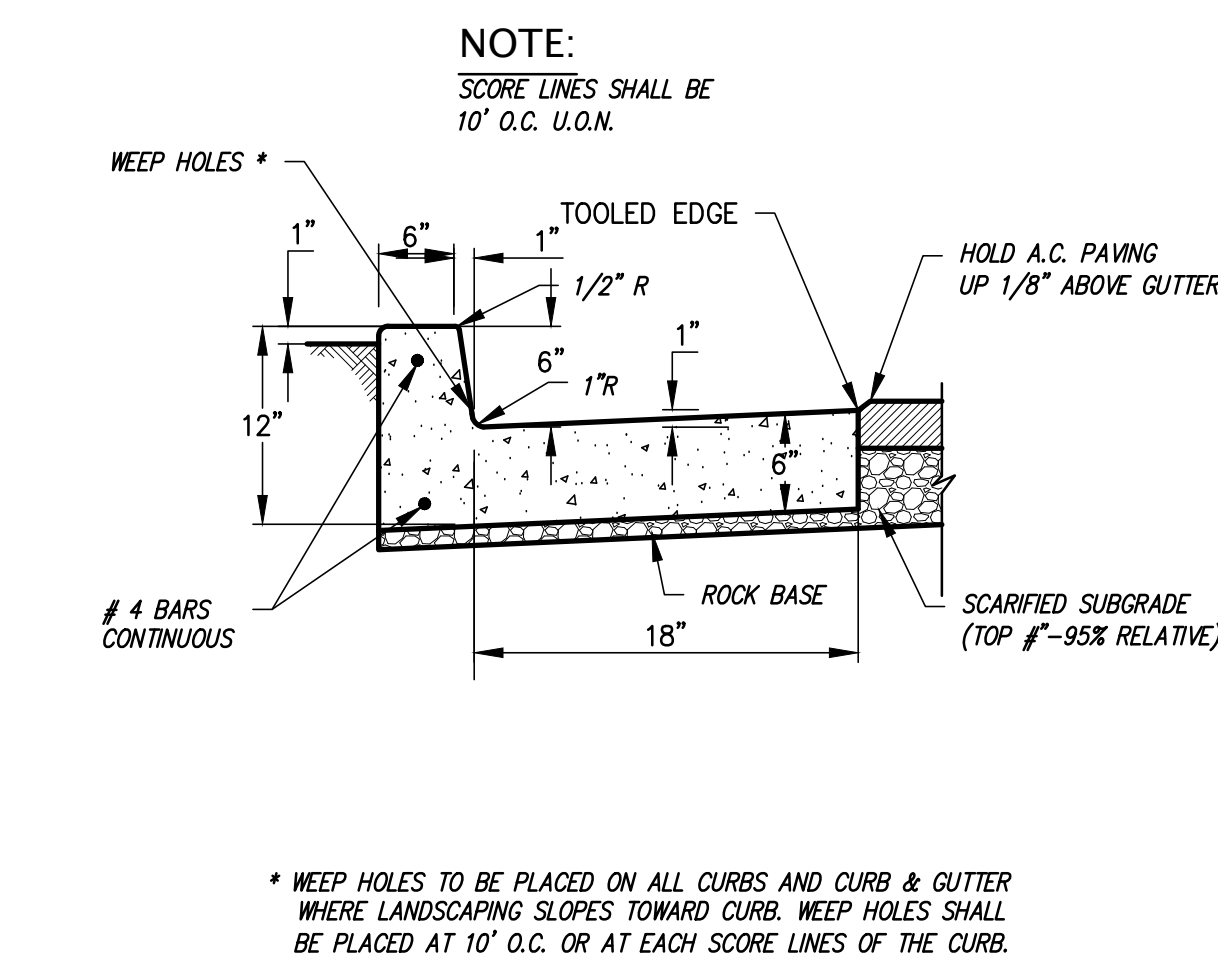
5



TRUNCATED DOMES

NOT TO SCALE

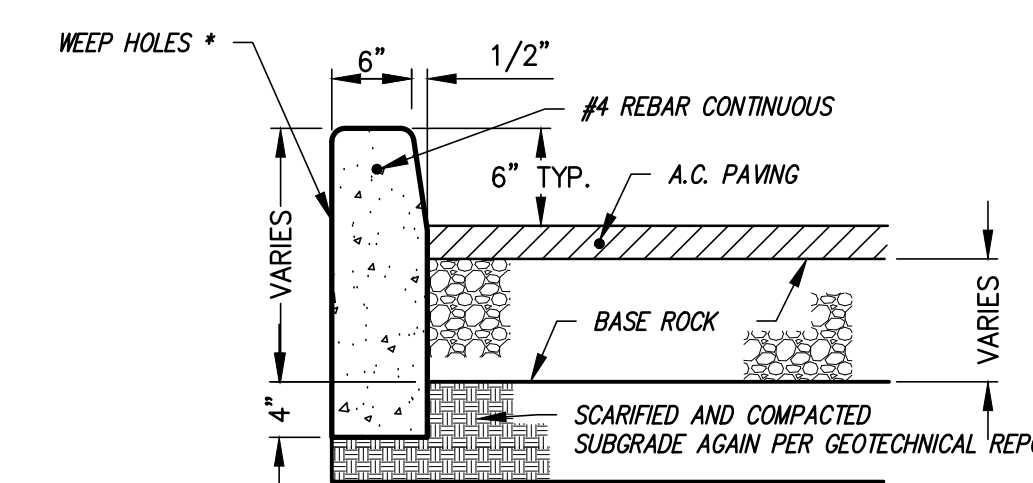
6



CONCRETE CURB & GUTTER

NOT TO SCALE

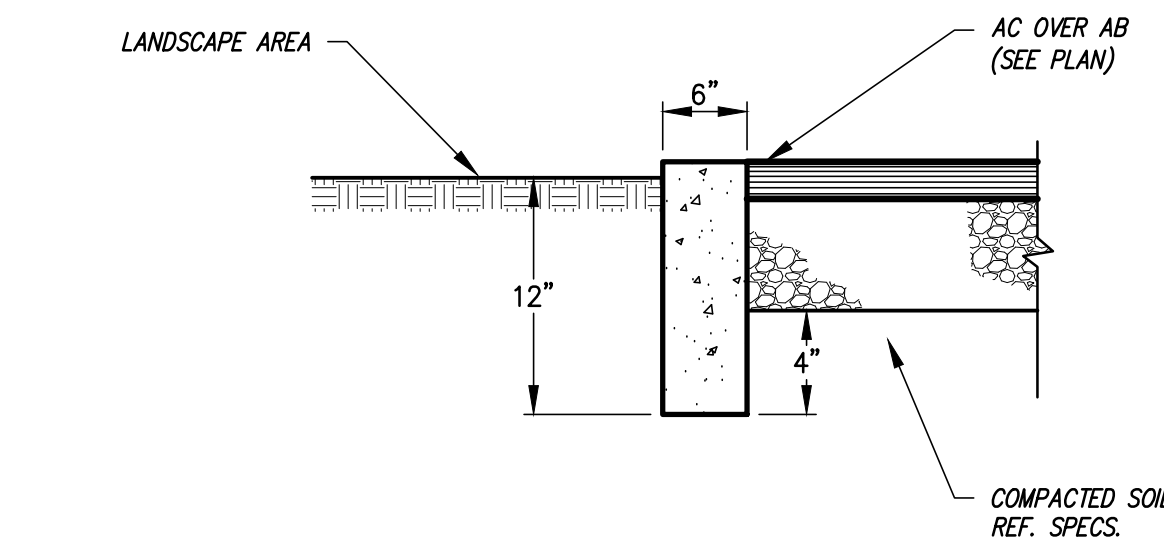
1



CONCRETE CURB

NOT TO SCALE

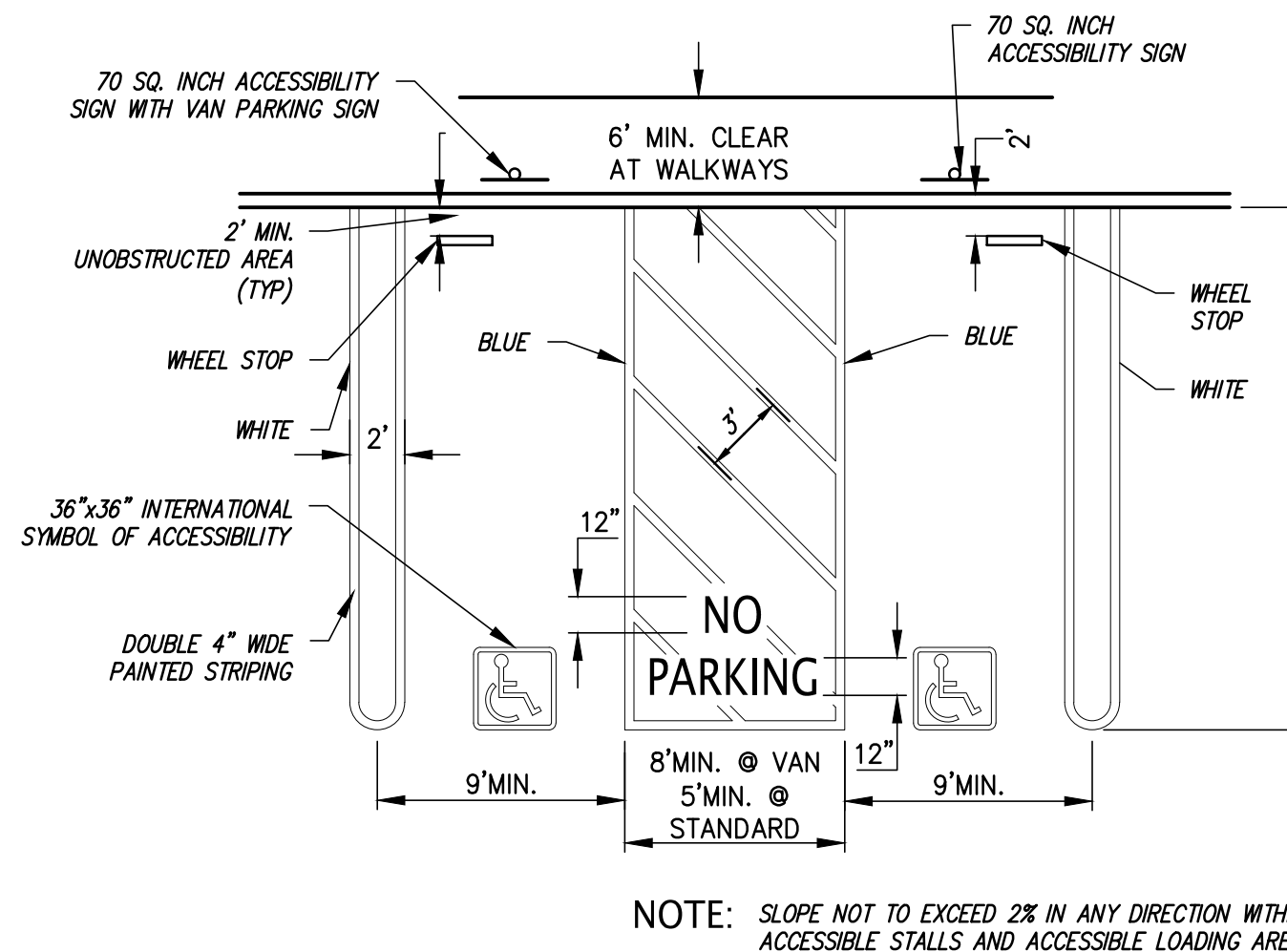
2



FLUSH CURB

NOT TO SCALE

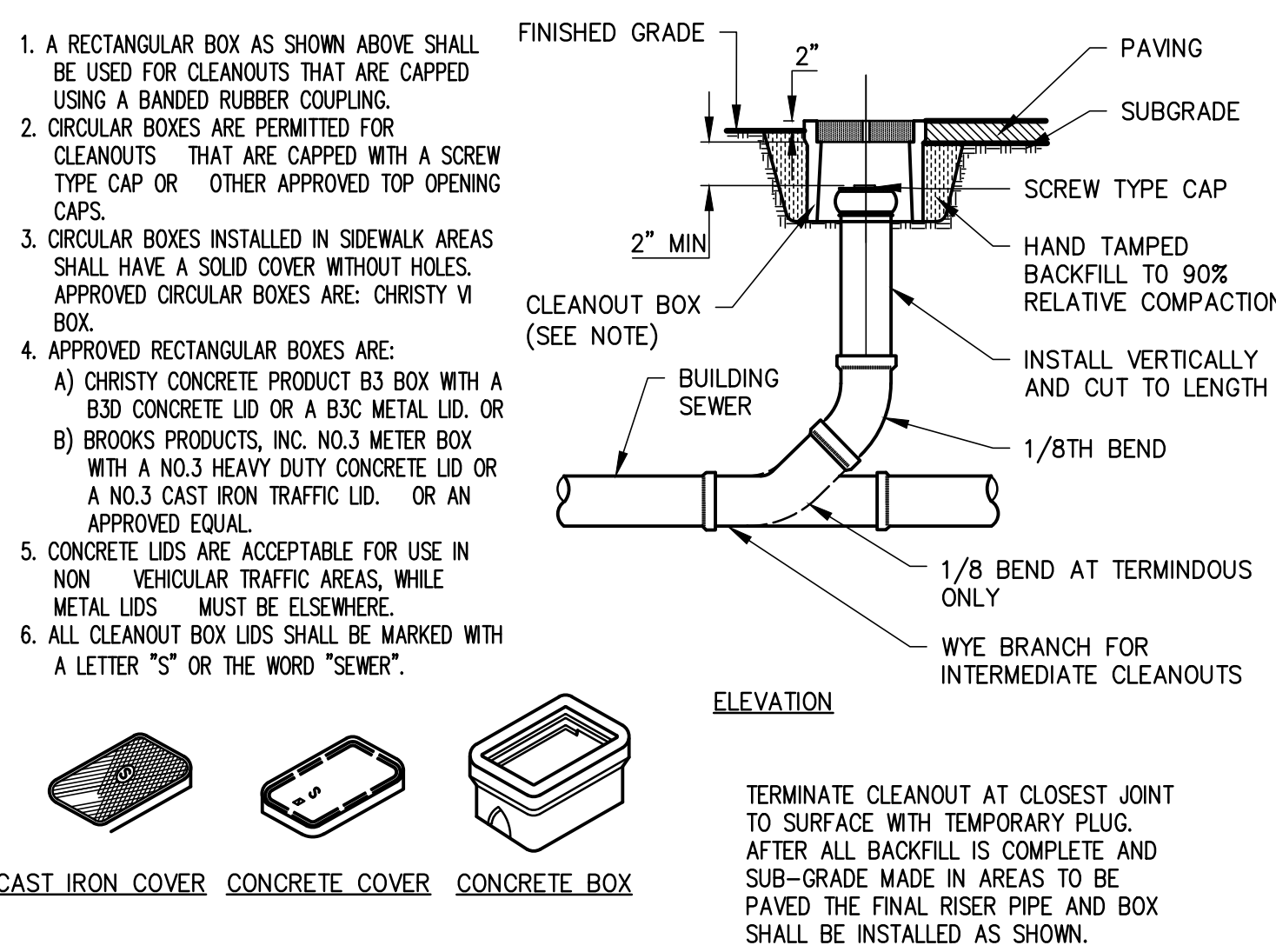
7



ACCESSIBLE PARKING

NOT TO SCALE

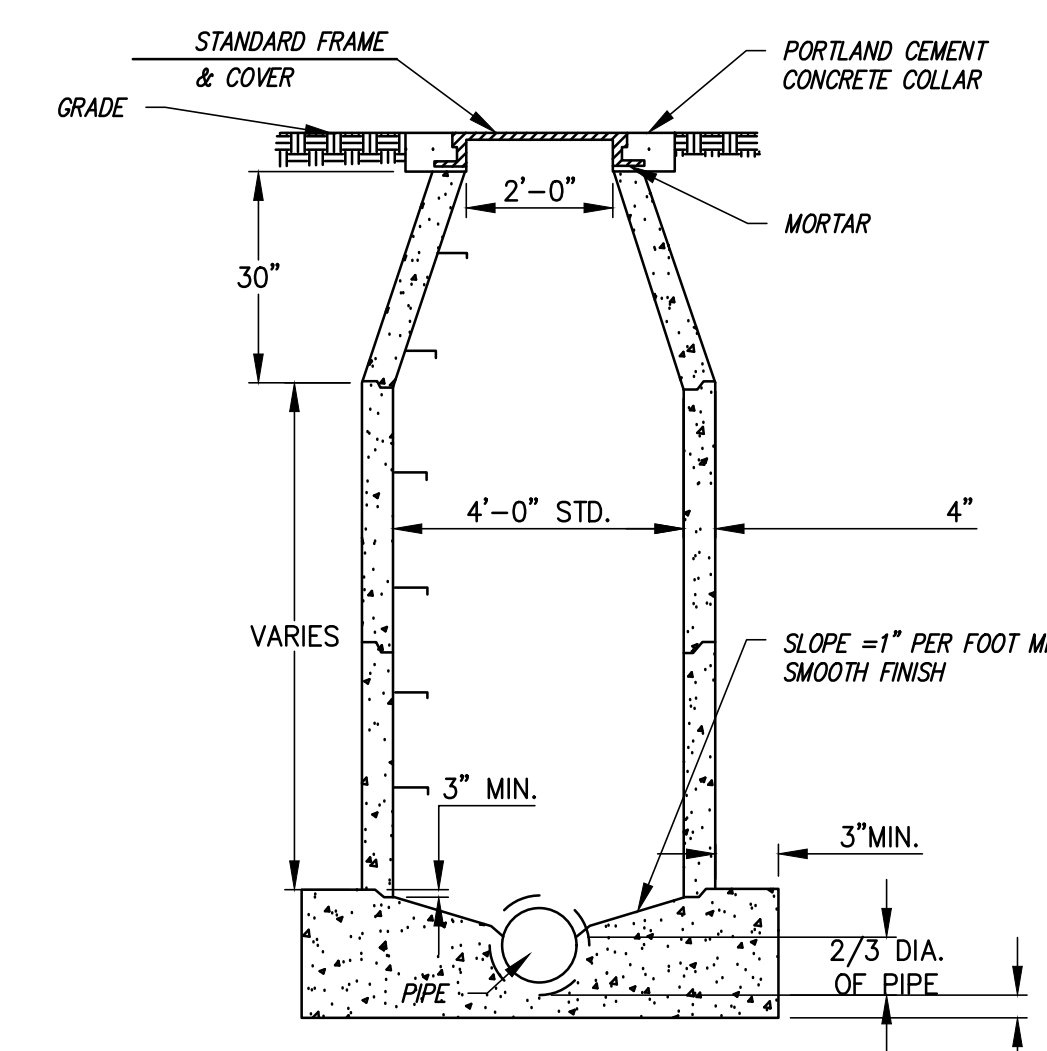
3



CLEANOUT TO GRADE

NOT TO SCALE

8

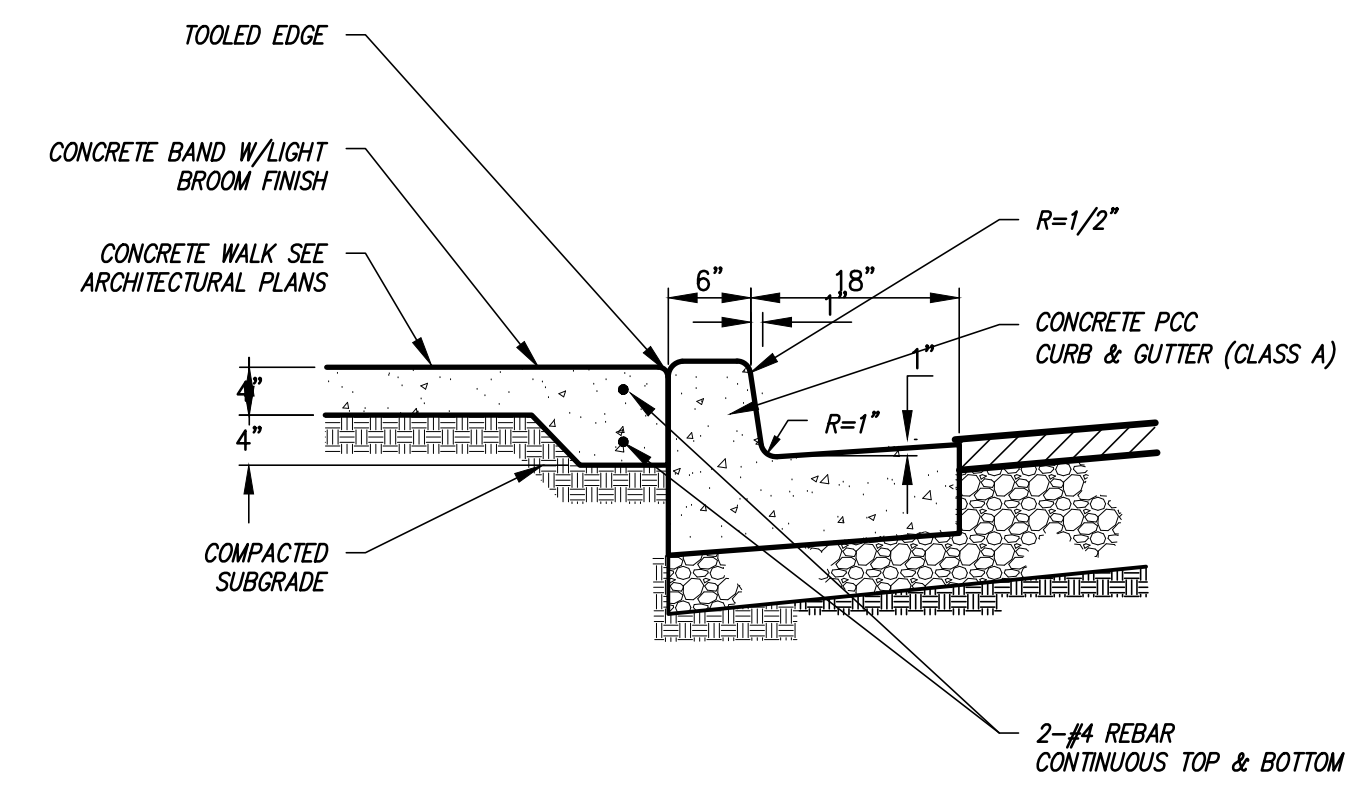


MANHOLE DETAIL

(FOR 24" AND SMALLER DIAMETER PIPE)

NOT TO SCALE

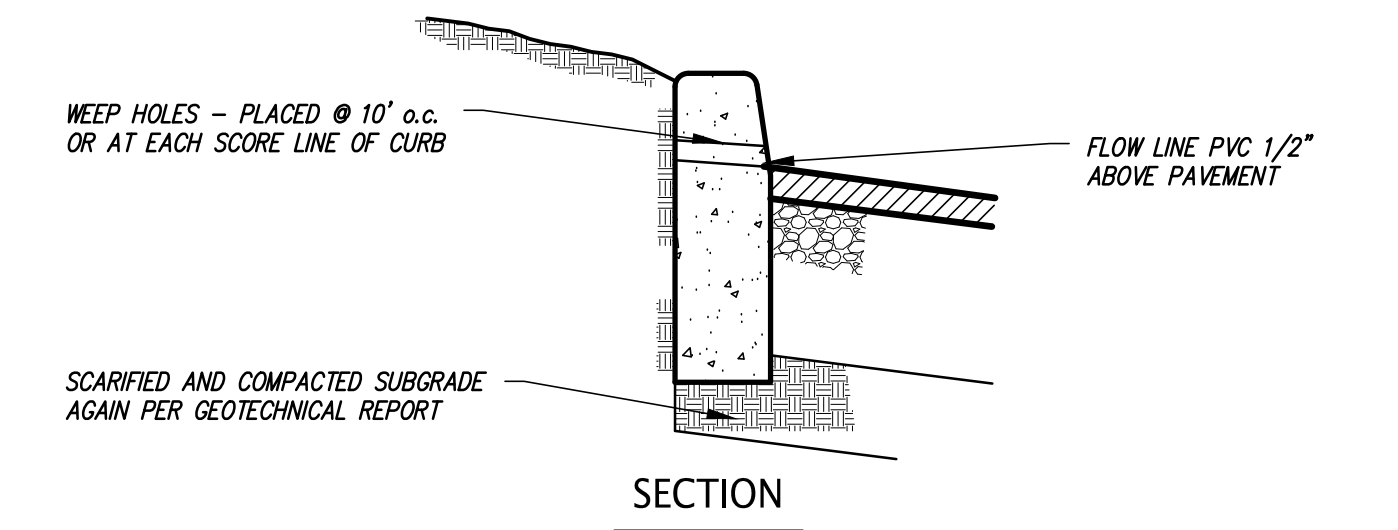
4



CONCRETE WALK AT CURB & GUTTER

NOT TO SCALE

4



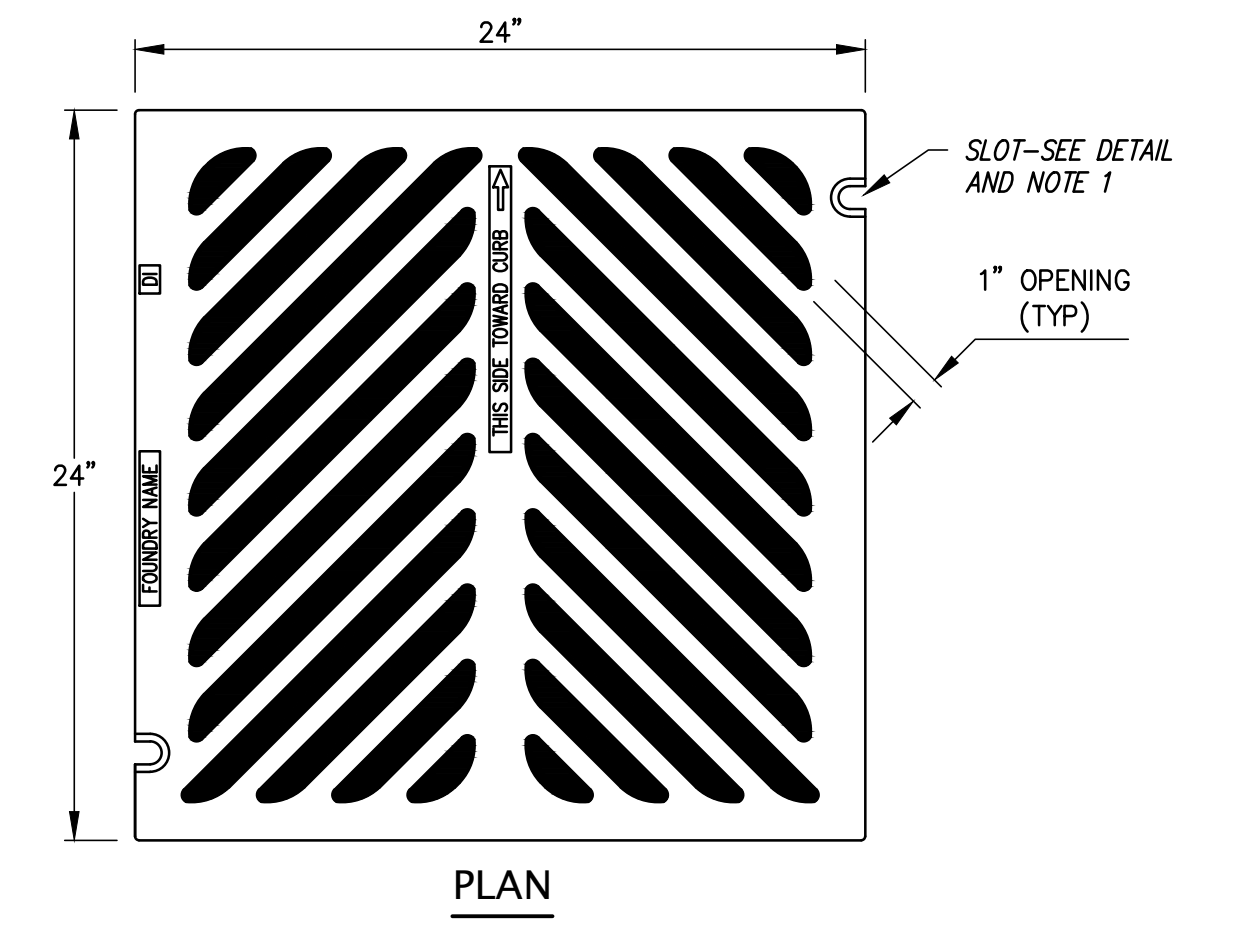
SECTION

ELEVATION

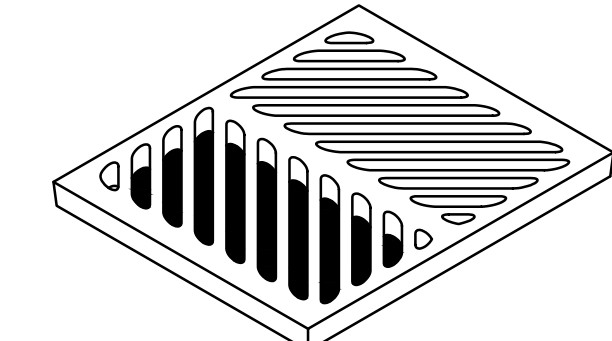
WEEP HOLE

NOT TO SCALE

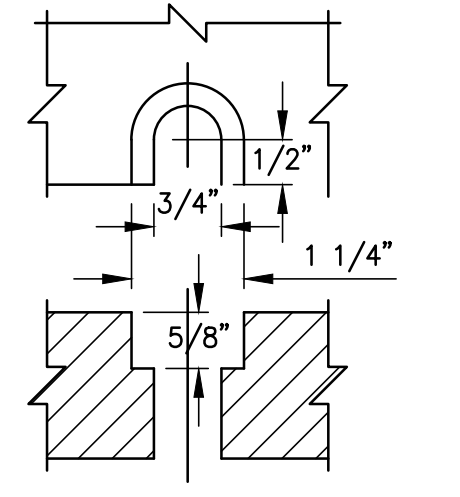
5



PLAN



ISOMETRIC



SLOT DETAIL

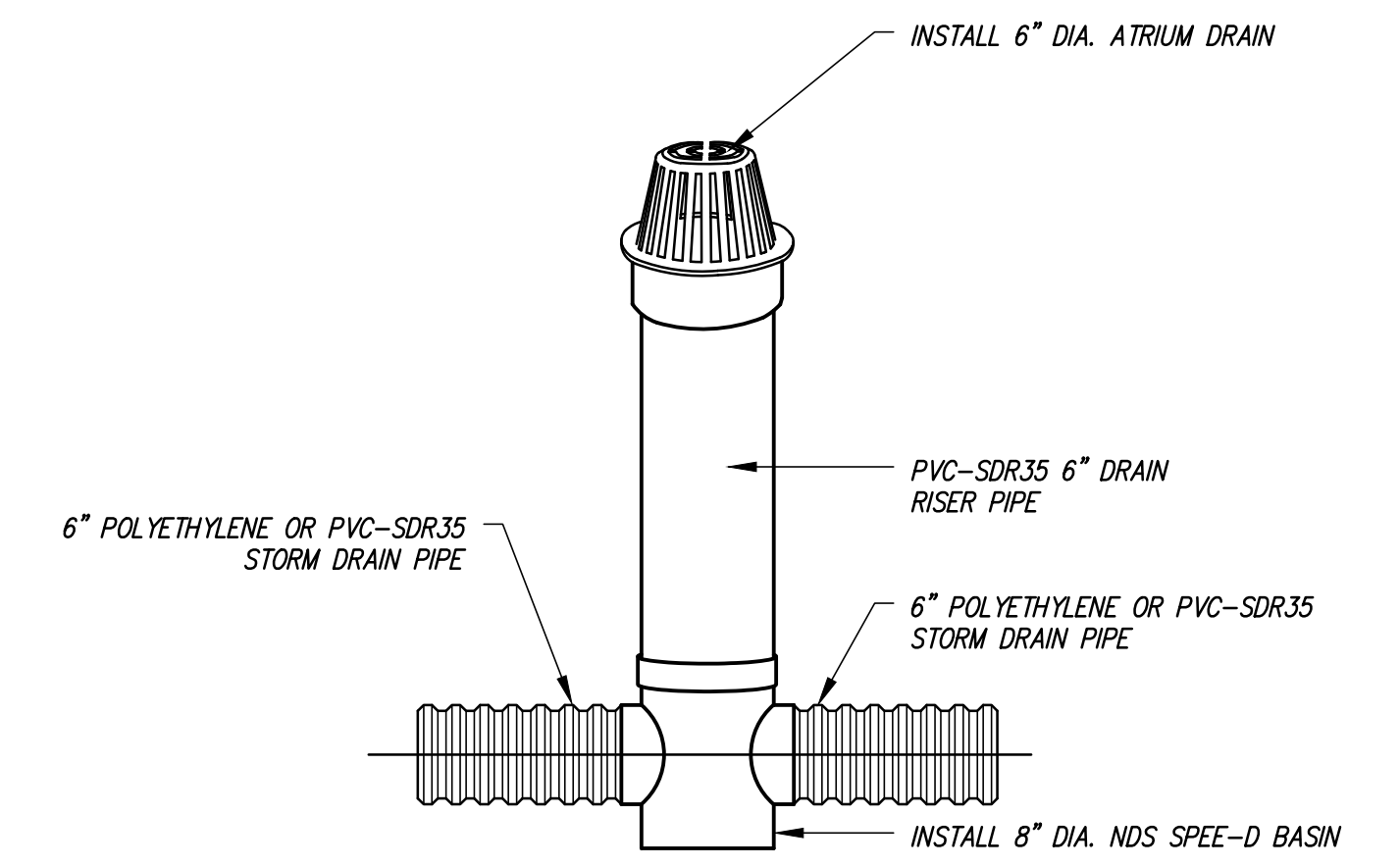
NOTES:

1. WHEN BOLT-DOWN GRATES ARE SPECIFIED IN THE CONTRACT, PROVIDE TWO SLOTS IN THE GRATE THAT ARE VERTICALLY ALIGNED WITH THE HOLES IN THE FRAME. LOCATION OF BOLT-DOWN SLOTS VARIES AMONG DIFFERENT MANUFACTURERS.
2. THE THICKNESS OF THE GRATE SHALL NOT EXCEED 1 5/8".
3. ADAPTED FROM WASHINGTON STATE DEPT. OF TRANSPORTATION STD. PLAN B-30.50-00.
4. MANUFACTURED BY HEHN IRON WORKS (COEUR D'ALENE, IDAHO) OR EQUIVALENT

CATCH BASIN GRATE

NOT TO SCALE

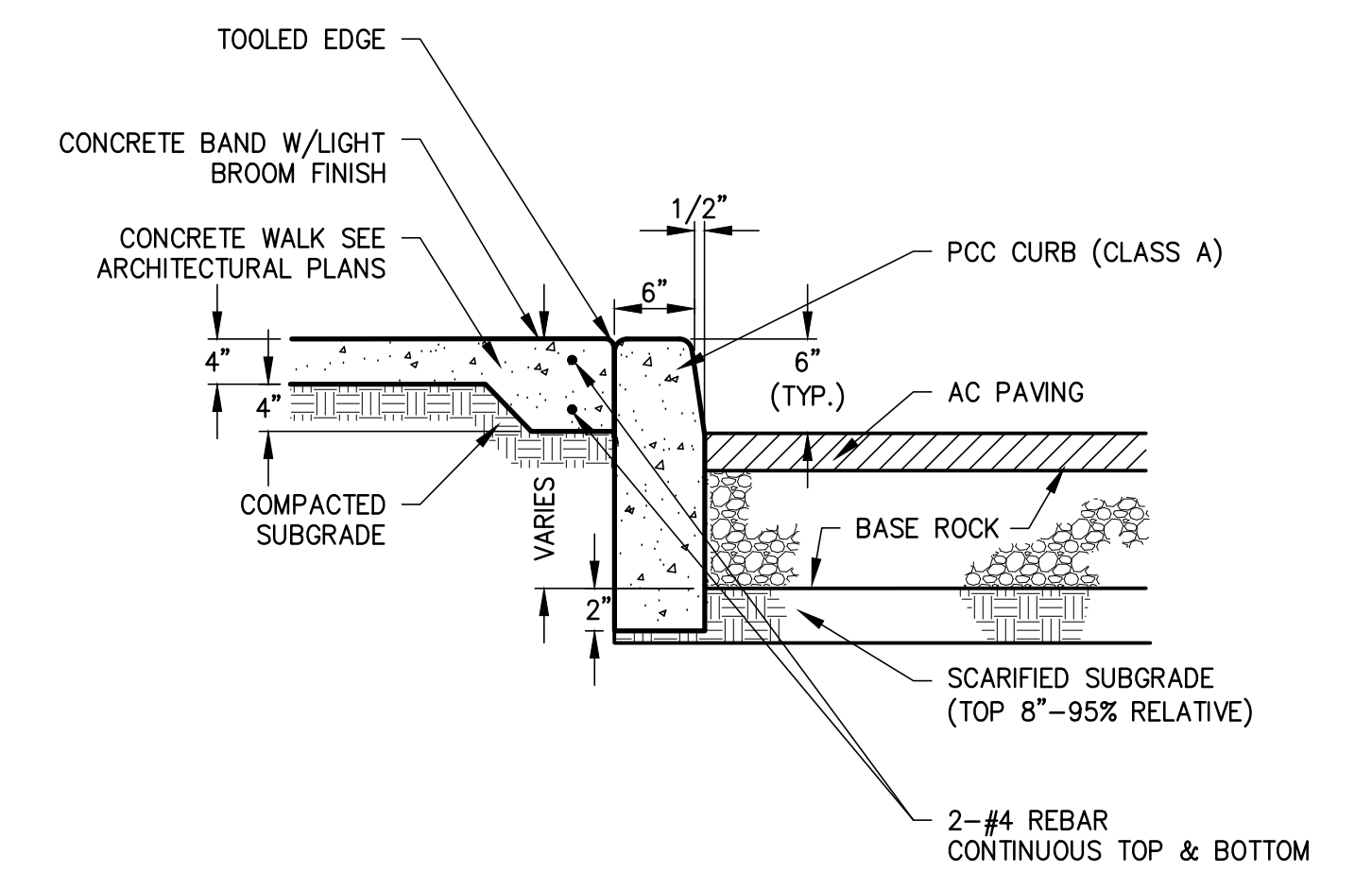
1



NDS ATRIUM DRAIN

NOT TO SCALE

2

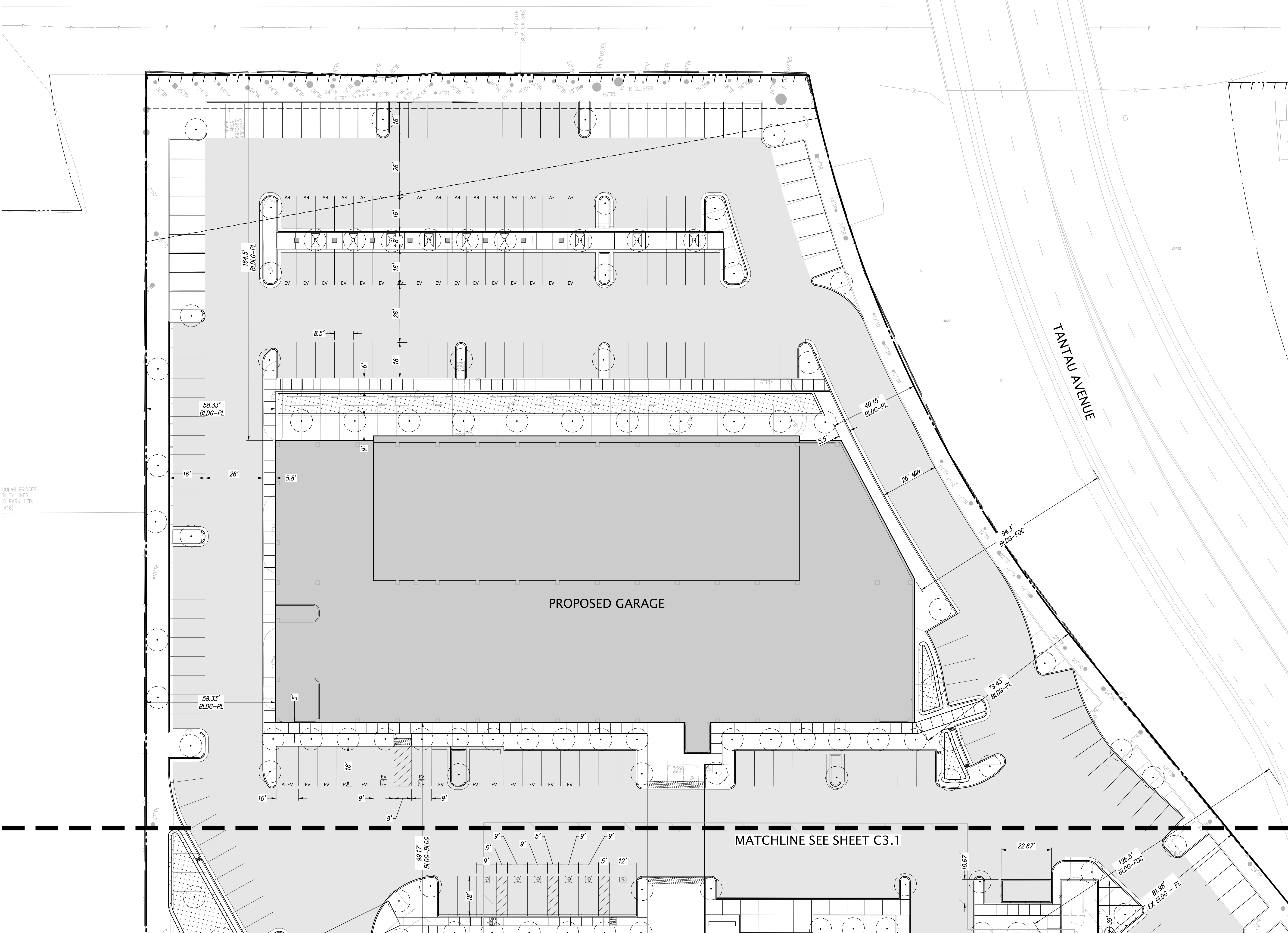


CONCRETE WALK AT CURB

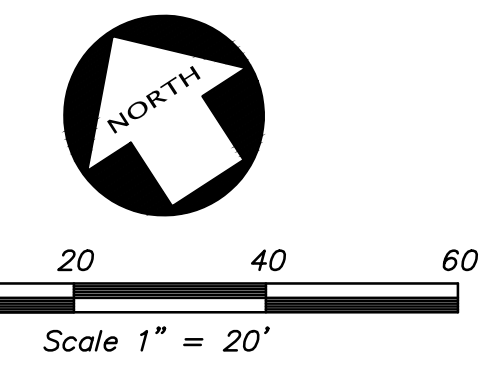
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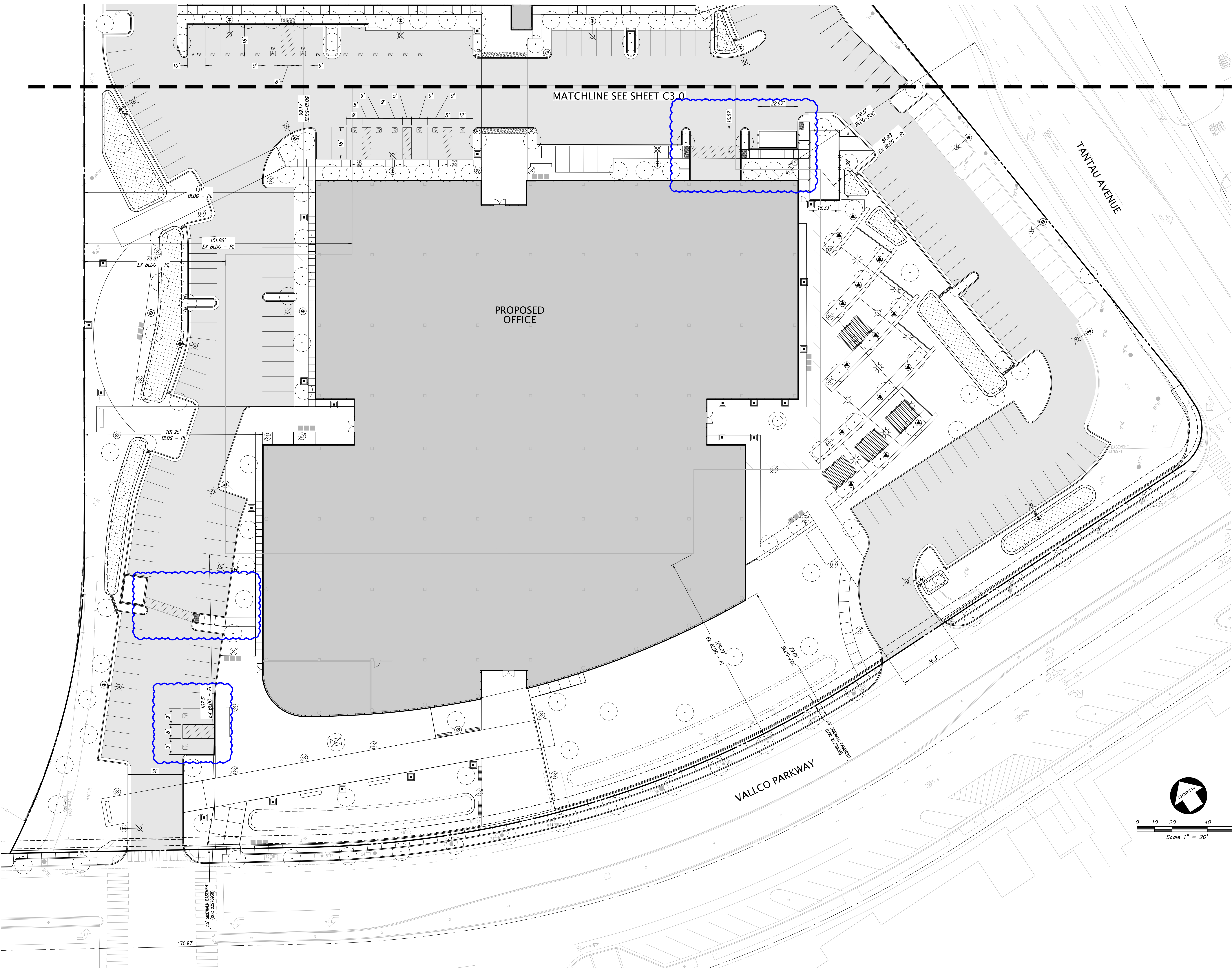
3

PROPOSED	EXISTING	
		ASPHALT BERM
		BUILDING LINE
		CENTER LINE
		CONCRETE CURB & GUTTER
		CONTOUR LINE
		DRIVEWAY
		EDGE OF PAVEMENT
		FENCE LINE
		LOT LINE
		MONUMENT/MONUMENT LINE
		PROPERTY LINE
		SIDEWALK
		SPOT ELEVATION
		STORM DRAIN-MANHOLE & CATCH BASIN
		THRU CURB DRAIN
		ELECTROLUER
		PROPOSED BUILDING
		PROPOSED ASPHALT 11.6.5



CULAR BRIDGES, TILITY LINES, 3D PARK, LTD. 448)



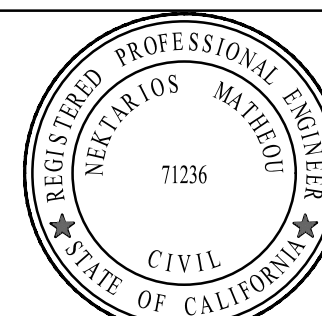


ENGINEERED SITE PLAN
Apple, Inc.

05.23.2022



0 10 20 40 60
 Scale 1" = 20'



C3.1 **KIER+WRIGHT**

3330 Scott Boulevard, Building 22 Phone: (408) 727-6665
 Santa Clara, California 95054 www.kierwright.com

1. ALL GRADING SHALL BE DONE IN ACCORDANCE WITH RECOMMENDATIONS IN THE GEOTECHNICAL AND FOUNDATION INVESTIGATION PREPARED FOR THIS SITE BY XXXX.
2. CONTRACTOR SHALL DETERMINE HIS OWN EARTH QUANTITIES AND BASE HIS BID ACCORDINGLY.
3. TOP OF CURB ELEVATION IS 0.5' ABOVE THE A.C. PAVING AND SPOT ELEVATIONS ARE TO FINISHED SURFACE (UNLESS OTHERWISE NOTED).
4. COMPACTION TO BE DETERMINED USING ASTM D1557, LATEST EDITION LABORATORY TEST PROCEDURE.
5. STORM DRAIN DESIGNATED AS "SD" SHALL BE CLASS III RCP. SDR 35 PVC OR HDPE AS STATED BELOW. PVC AND HDPE PIPES SHALL ONLY BE USED WHEN MINIMUM COVER REQUIREMENTS ARE MET AS SPECIFIED IN THE PVC PIPE BEDDING DETAIL AS SHOWN ON THESE PLANS. SUBSTITUTIONS FOR ANY PIPE WITH A PARTICULAR MATERIAL SPECIFIED ON THIS PLAN SHALL ONLY BE MADE WITH THE WRITTEN APPROVAL OF THE ENGINEER.
6. STORM DRAIN PIPE SHALL BE: 10" DIAMETER AND SMALLER SDR 35 PVC OR HDPE WITH RUBBER GASKETS MEETING ASTM F477. 12" DIAMETER TO BE SDR 35 PVC, CLASS III RCP OR BLUE SEAL HDPE AS MANUFACTURED BY HANCOR WITH WATER TIGHT JOINTS MEETING ASTM F477 AND ASTM D3212. 15" THROUGH 24" DIAMETERS; PIPE TO BE CLASS III RCP OR BLUE SEAL HDPE AS SPECIFIED ABOVE. PIPES LARGER THAN 24" IN DIAMETER SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED. NO MATERIAL SUBSTITUTION SHALL BE ALLOWED FOR DUCTILE IRON PIPE (DIP).
7. ALL UTILITY STRUCTURES INCLUDING, BUT NOT LIMITED TO MANHOLES, CATCH BASINS, WATER VALVES, FIRE HYDRANTS, TELEPHONE AND ELECTRIC VAULTS, AND PULL BOXES, THAT LIE WITHIN THE PUBLIC RIGHT-OF-WAY EASEMENTS OR AREAS AFFECTED BY WORK ON THIS PROJECT SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR OR THE RESPECTIVE UTILITY COMPANY FOR WHICH THE CONTRACTOR IS RESPONSIBLE TO AFFECT COORDINATION.
8. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS 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. HOWEVER, THE ENGINEER CAN NOT ASSUME RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THEIR DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT ARE NOT SHOWN ON THESE DRAWINGS.
9. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY AND SEWER LINES WHERE THEY ARE TO BE CROSSED, ABOVE OR BELOW, BY THE NEW FACILITY BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ASSURE THAT THERE IS SUFFICIENT CLEARANCE. PIPE SHALL NOT BE STRUNG NOR TRENCHING COMMENCED UNTIL ALL CROSSINGS HAVE BEEN VERIFIED FOR CLEARANCE. IF THE CONTRACTOR FAILS TO FOLLOW THIS PROCEDURE, HE WILL BE SOLELY RESPONSIBLE FOR ANY EXTRA WORK OR MATERIAL REQUIRED IF MODIFICATIONS TO THE DESIGN ARE NECESSARY.
10. THE CONTRACTOR SHALL SET HIS STRING OR WIRE THROUGH AT LEAST THREE GRADE STAKES TO VERIFY GRADE. IF THE STAKES DO NOT PRODUCE A UNIFORM GRADE, NOTIFY THE ENGINEER IMMEDIATELY AND HAVE THE GRADES CHECKED PRIOR TO THE TRENCHING OR PLACEMENT OF CONCRETE.
11. ADJUSTMENTS TO BUILDING PAD ELEVATIONS OR PARKING LOT GRADES TO ACHIEVE EARTHWORK BALANCE SHALL BE MADE ONLY WITH APPROVAL OF THE ENGINEER.
12. ALL WORK, ON-SITE AND IN THE PUBLIC RIGHT-OF-WAY, SHALL CONFORM TO THE CITY OF MOUNTAIN VIEW STANDARDS AND REQUIREMENTS.

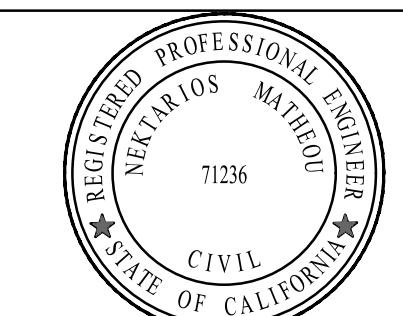
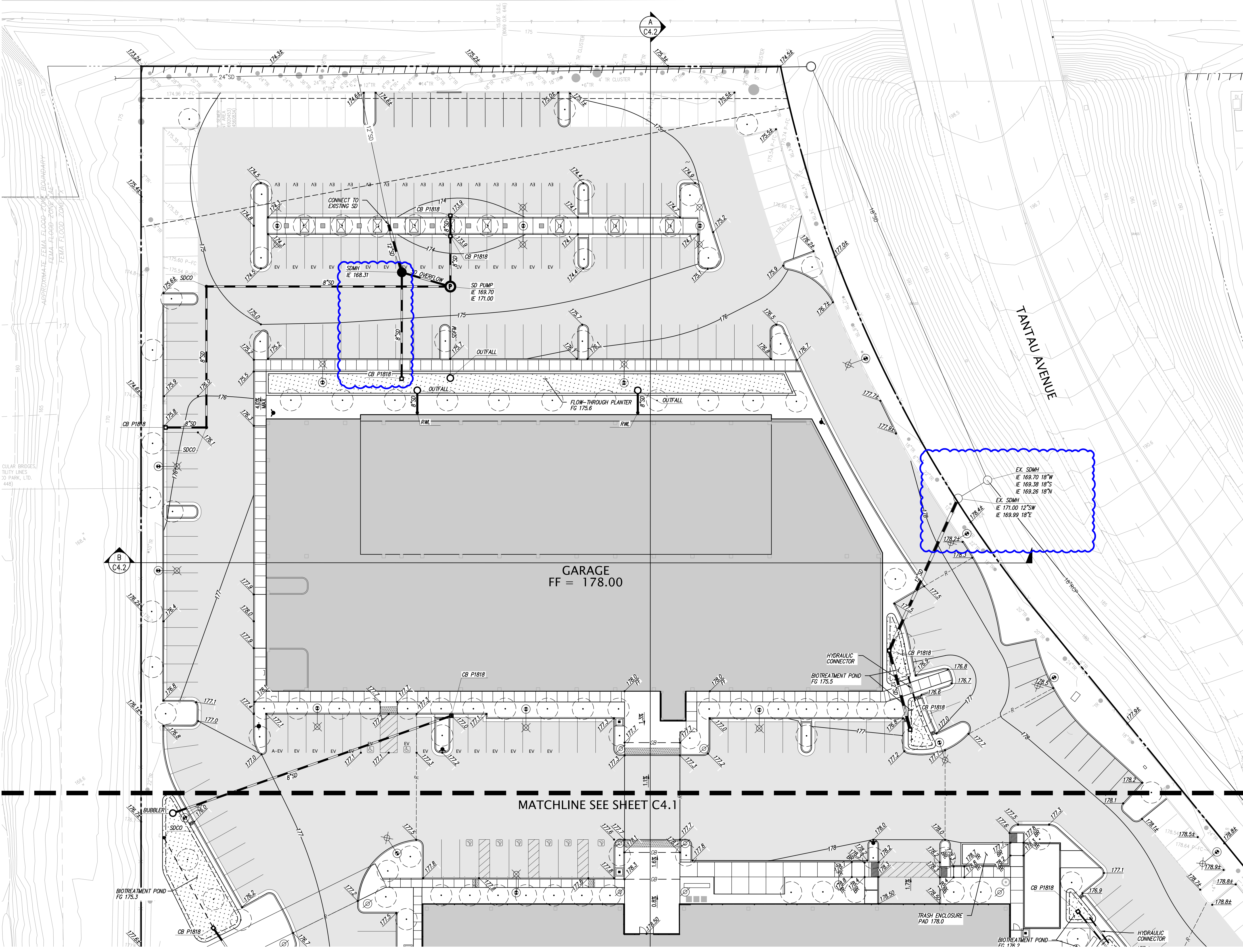
LEGEND

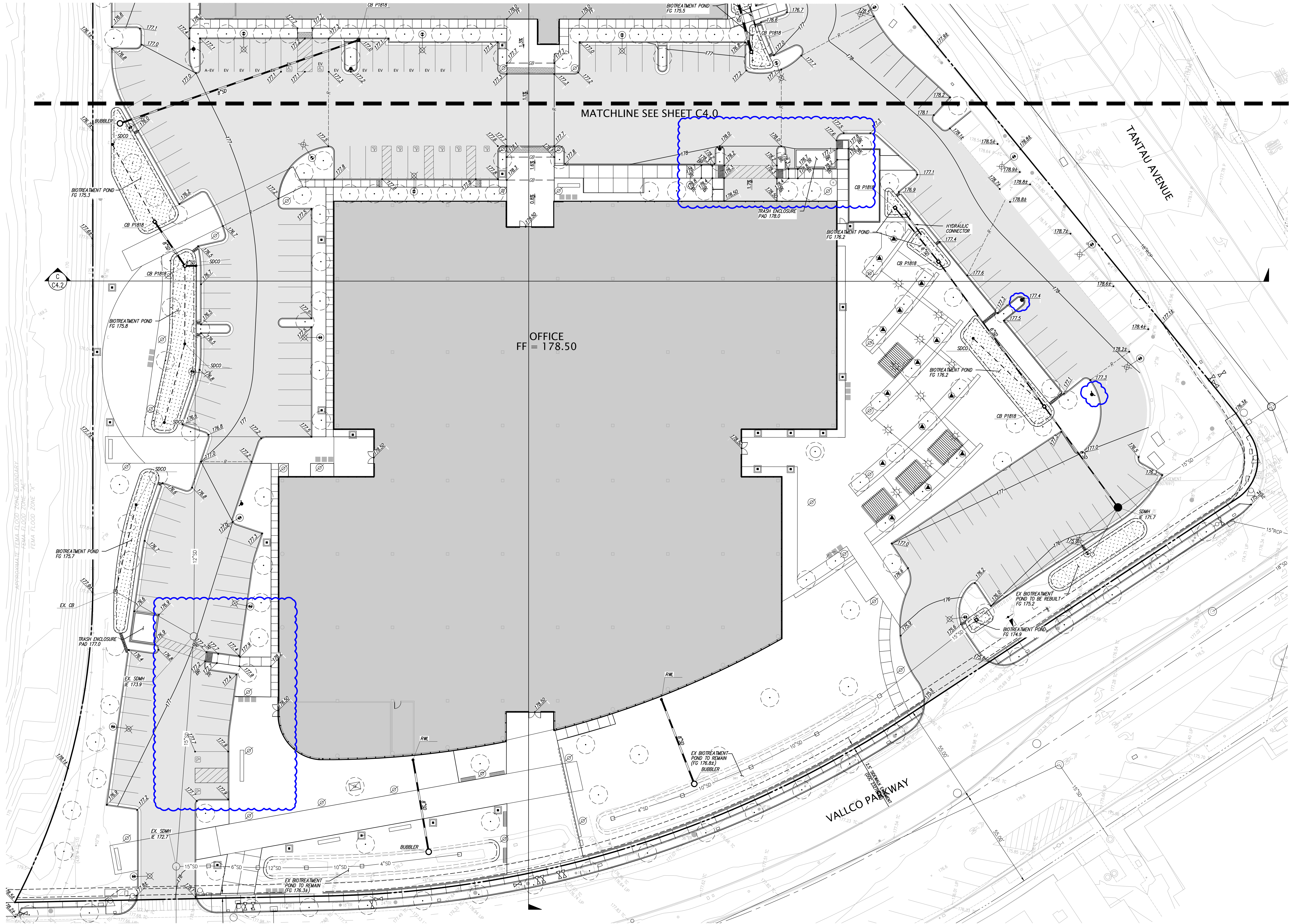
ASR	AUTOMATIC SPRINKLER RISER
FL	FLOW LINE
FF	FINISH FLOOR
PV	PAVEMENT
RE	RIM ELEVATION
TC	TOP OF CURB
WS	WATER SERVICE
23.8	SPOT ELEVATION
---	EXISTING UTILITY TO BE ABANDONED BY REMOVAL
FS	FIRE SERVICE
SS	SANITARY SEWER
COTG	CLEANOUT TO GRADE
SD	STORM DRAIN LINE
□	AREA DRAIN
□	STORM DRAIN CATCH BASIN
□	STORM DRAIN JUNCTION BOX
□	STORM DRAIN MANHOLE
□	AUTOMATIC SPRINKLER RISER
□	BACK FLOW PREVENTION DEVICE
□	FIRE DEPARTMENT CONNECTION
□	FIRE HYDRANT & VALVE
□	POST INDICATOR VALVE
□	SANITARY SEWER MANHOLE
□	SINGLE CHECK VALVE
□	STORM DRAIN MANHOLE
□	WATER METER
■	PROPOSED BUILDING
■	PROPOSED ASPHALT
TL 6.5	TL 6.5

EARTHWORK SUMMARY

CUT: 58,393 CY
 FILL: 364 CY

NOTE:
 THE EARTHWORK QUANTITIES LISTED ON THESE PLANS ARE STATED ONLY FOR CALCULATION OF GRADING AND BUILDING PERMIT FEES. THESE QUANTITIES DO NOT INCLUDE TRENCH OR FOOTING SPILLS, SHRINK OR SWELL FROM COMPACTING EFFORTS OR OTHER VARIABLES. THE ENGINEER MAKES NO REPRESENTATION THIS SITE WILL BALANCE. THE CONTRACTOR SHALL DETERMINE HIS OWN EARTHWORK QUANTITIES AND BASE HIS BID ACCORDINGLY. ESTIMATED EARTHWORK QUANTITIES ARE BASED ON GRADING WITHIN THE PROJECT PROPERTY.

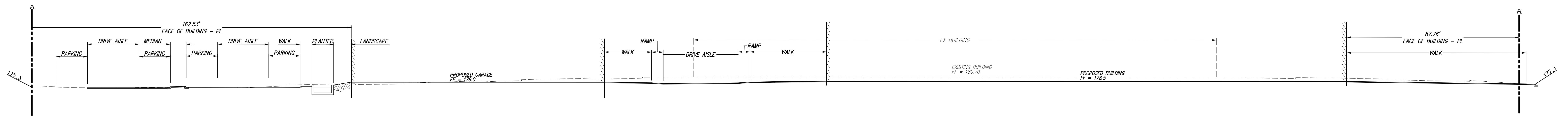




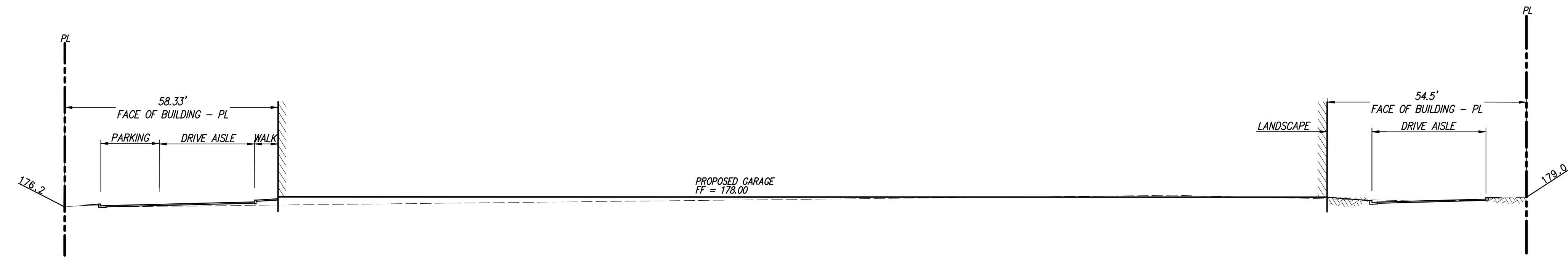
GRADING PLAN
Apple, Inc.

05.23.2022

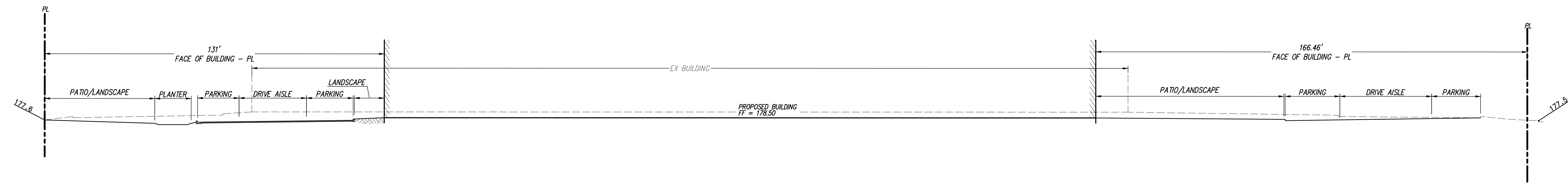




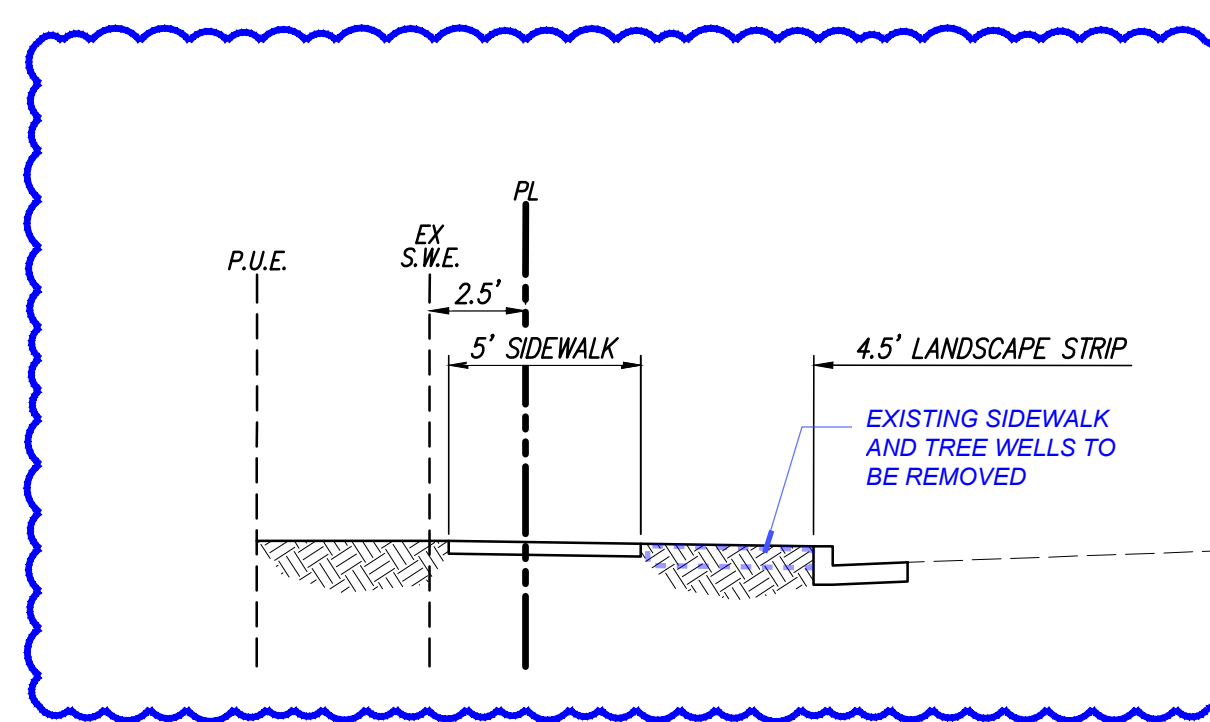
SECTION A-A
1"=20'



SECTION B-B
1"=20'



SECTION C-C
1"=20'

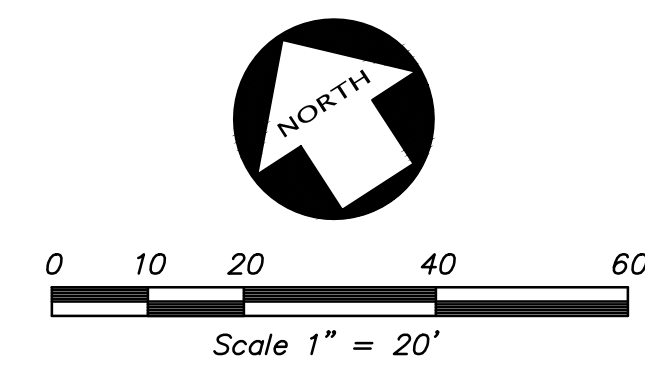
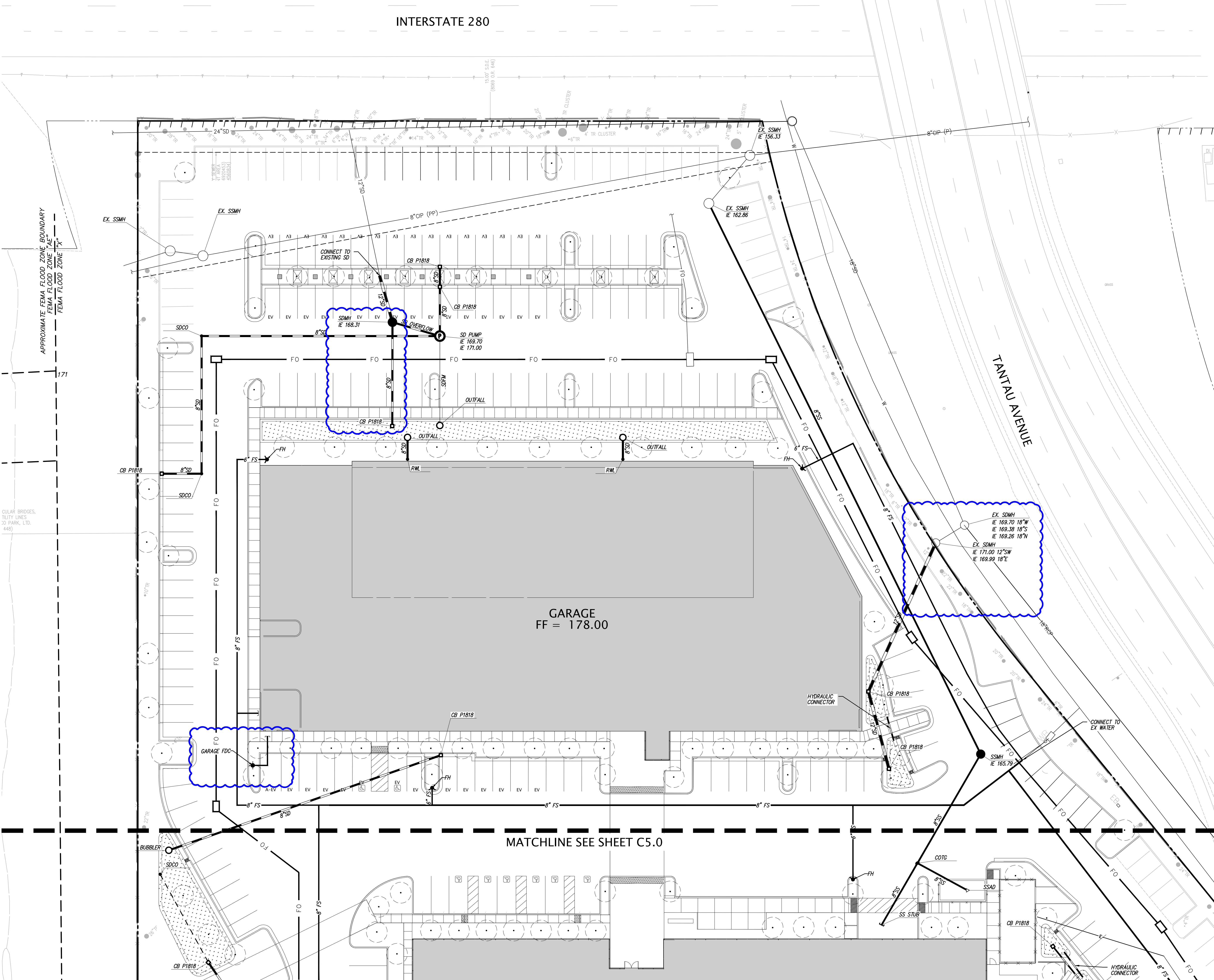


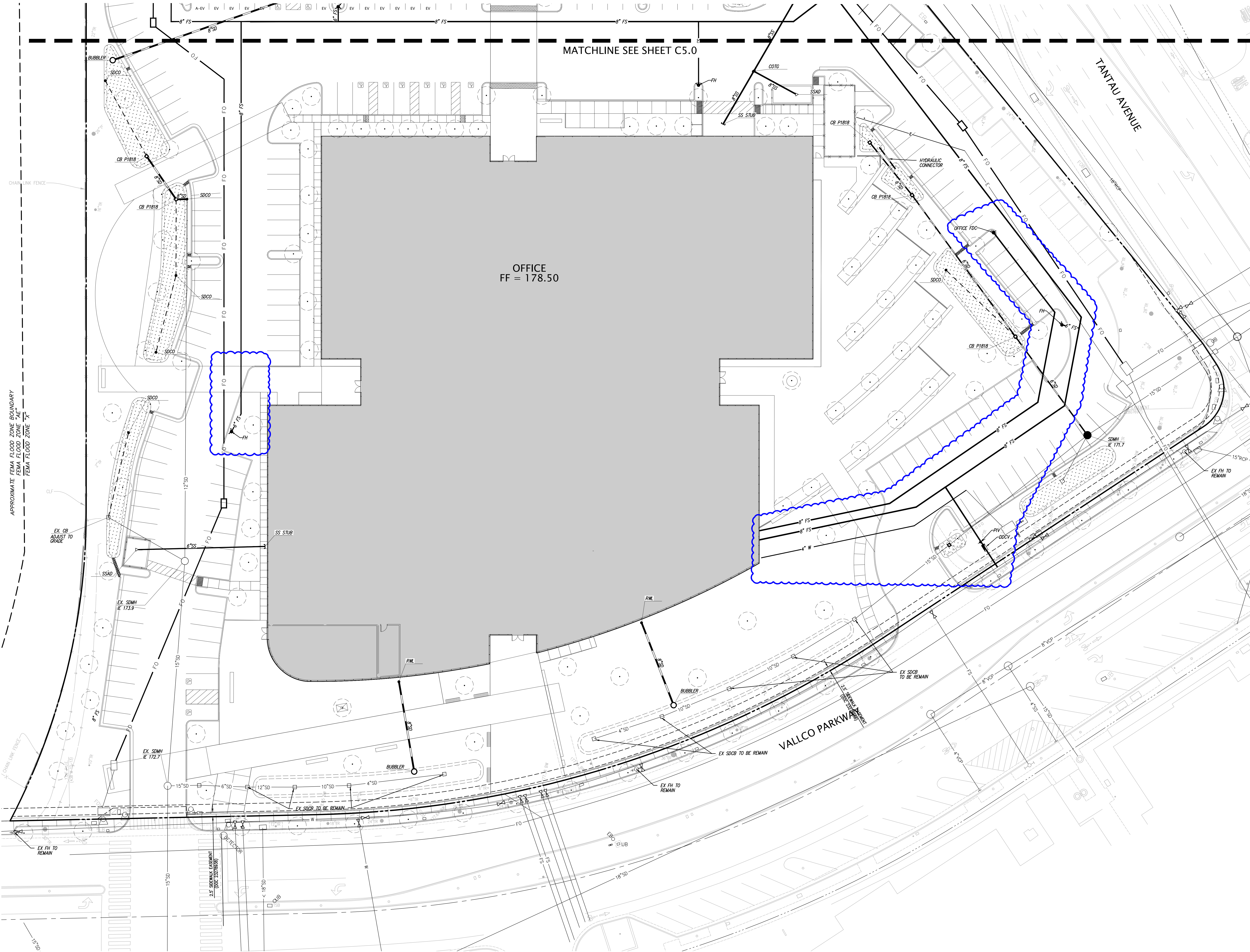
TYPICAL SIDEWALK SECTION - VALLCO PKWY
1"=5'

ASR	AUTOMATIC SPRINKLER RISER
FL	FLOW LINE
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PV	PAVEMENT
RE	RIM ELEVATION
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○	FIRE DEPARTMENT CONNECTION
○	FIRE HYDRANT & VALVE
○	POST INDICATOR VALVE
○	SANITARY SEWER MANHOLE
○	SINGLE CHECK VALVE
○	STORM DRAIN MANHOLE
○	WATER METER

UTILITY NOTES

- BACKFILLING AND COMPACTION FOR ALL TRENCHES SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- CONTRACTOR TO VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL 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 UPSTREAM, HE SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY.
- ALL WORK ON-SITE AND IN THE PUBLIC RIGHT OF WAY SHALL CONFORM TO THE CITY OF CUPERTINO STANDARDS AND REQUIREMENTS.
- GENERAL CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES. PROVIDE 6" MINIMUM BETWEEN PIPES CROSSING ELECTRICAL LINES HORIZONTALLY AND 12" MINIMUM BETWEEN PARALLEL PIPES CROSSING ELECTRICAL LINES.
- FOR UTILITY MATERIALS AND TYPES, SEE THE PROJECT SPECIFICATIONS IF APPLICABLE AND NOT IDENTIFIED ON THESE PLANS.
- WATER LINES SHALL BE 12" MINIMUM ABOVE SANITARY SEWER LINE AT ALL CROSSINGS.
- MINIMUM COVER FOR WATER LINES IS 3.0 FEET.
- EXISTING STREET LIGHTS ON VALLCO PARKWAY ALONG PROJECT FRONTAGE SHALL BE UPGRADED TO CURRENTLY CITY STANDARDS.
- ALL CATCH BASINS SHALL BE OUTFITTED WITH TRASH CAPTURE DEVICES PER DETAIL 11 ON SHEET C2.1
- ANY EXISTING OVERHEAD UTILITIES ON SITE OR ALONG PROJECT FRONTAGE SHALL BE UNDERGROUND.



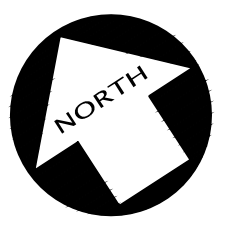


MATCHLINE SEE SHEET C5.0

OFFICE
FF = 178.50

TANTAU AVENUE

VALLCO PARKWAY



0 10 20 40 60
Scale 1" = 20'

UTILITY PLAN
Apple, Inc.

05.23.2022



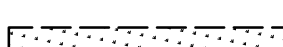




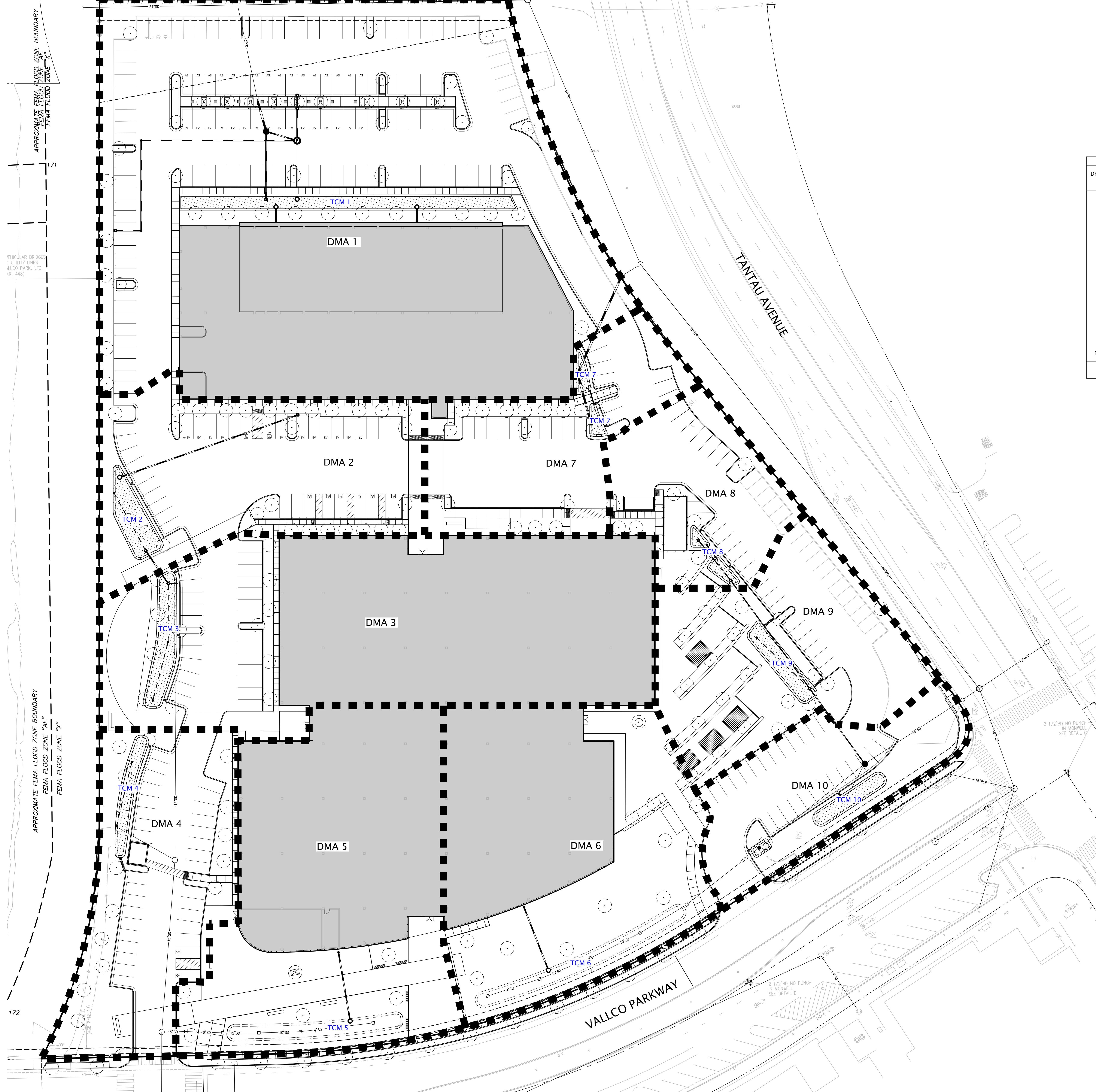
C5.1 **KIER+WRIGHT**

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Santa Clara, California 95054 www.kierwright.com

INTERSTATE 280

LEGEND

-  TRIBUTARY AREA LIMITS
-  FLOW THROUGH PLANTER
-  BIO-RETENTION TREATMENT AREA
-  DMA DRAINAGE MANAGEMENT AREA
-  TCM TREATMENT CONTROL MEASURE



DRAINAGE AREAS	DRAINAGE AREA SIZE (SQ.FT)	PERVIOUS SURFACE (SQ.FT)	TYPE OF PERVIOUS SURFACE	IMPERVIOUS SURFACE (SQ.FT)	TYPE OF IMPERVIOUS SURFACE	SIZING METHOD	WATER QUANTITY		PONDING DEPTH (IN)	PROPOSED TREATMENT CONTROLS	CONF TO SIZE STANDARDS?
							REQUIRED (SQ.FT)	PROVIDED (SQ.FT)			
DMA 1	99,159	15,932	LANDSCAPE BIORETENTION	83,227	AC PAVING, CONCRETE, ROOF	COMBINATION FLOW-VOLUME	2,070	2,202	12	TCM 1 FLOW-THROUGH PLANTER	YES
DMA 2	26,453	6,173	LANDSCAPE BIORETENTION	20,280	AC PAVING, CONCRETE	UNIFORM INTENSITY (4% RULE)	1,058	1,228	6	TCM 2 BIOTREATMENT POND	YES
DMA 3	51,210	5,248	LANDSCAPE BIORETENTION	45,962	AC PAVING, CONCRETE, ROOF	COMBINATION FLOW-VOLUME	1,409	1,498	6	TCM 3 BIOTREATMENT POND	YES
DMA 4	23,014	13,153	LANDSCAPE BIORETENTION	9,861	AC PAVING, CONCRETE	COMBINATION FLOW-VOLUME	428	904	6	TCM 4 BIOTREATMENT POND	YES
DMA 5	40,061	7,555	LANDSCAPE BIORETENTION	32,506	AC PAVING, CONCRETE, ROOF	UNIFORM INTENSITY (4% RULE)	1,602	1,649	6	TCM 5 BIOTREATMENT POND	YES
DMA 6	37,390	15,595	LANDSCAPE BIORETENTION	21,795	AC PAVING, CONCRETE, ROOF	UNIFORM INTENSITY (4% RULE)	1,496	1,985	6	TCM 6 BIOTREATMENT POND	YES
DMA 7	18,100	3,560	LANDSCAPE BIORETENTION	14,540	AC PAVING, CONCRETE	COMBINATION FLOW-VOLUME	451	458	6	TCM 7 BIOTREATMENT POND	YES
DMA 8	13,847	3,779	LANDSCAPE BIORETENTION	10,068	AC PAVING, CONCRETE	COMBINATION FLOW-VOLUME	316	396	6	TCM 8 BIOTREATMENT POND	YES
DMA 9	23,038	9,600	LANDSCAPE BIORETENTION	13,438	AC PAVING, CONCRETE	UNIFORM INTENSITY (4% RULE)	922	1,015	6	TCM 9 BIOTREATMENT POND	YES
DMA 10	14,902	5,628	LANDSCAPE BIORETENTION	9,274	AC PAVING, CONCRETE	UNIFORM INTENSITY (4% RULE)	596	831	6	TCM 10 BIOTREATMENT POND	YES
TOTAL	347,174	86,223		260,951			10,348	12,166			

OVERALL TREATMENT AREA TOTALS

PERVIOUS AND IMPERVIOUS SURFACES COMPARISON TABLE				
		PROJECT PHASE NUMBER: (N/A, 1, 2, 3)		
		N/A	N/A	
TOTAL SITE (ACRES):	7.97 AC [347,175 SF]	TOTAL AREA OF SITE DISTURBED (ACRES):	7.97	
IMPERVIOUS SURFACES	EXISTING CONDITION OF DISTURBED AREA (SQUARE FEET):	PROPOSED CONDITION OF SITE AREA DISTURBED (SQUARE FEET):		
		REPLACED	NEW	
	BUILDING FOOTPRINT	74,490	74,490	37,063
	STREETS & PARKING	174,480	115,706	0
	S/W, PATIOS, PATHS ETC.	33,348	33,693	0
	0	0	0	
	0	0	0	
	0	0	0	
TOTAL IMPERVIOUS SURFACES:	282,318	223,889	37,063	
PERVIOUS SURFACES	LANDSCAPED AREAS	64,857	64,857	21,366
	PERVIOUS PAVING	0	0	0
	OTHER PERVIOUS SURFACES (GREEN ROOF, ETC.)	0	0	0
	0	0	0	
TOTAL PERVIOUS SURFACES:	64,857	64,857	21,366	
TOTAL PROPOSED REPLACED + NEW IMPERVIOUS SURFACES:			260,952	
TOTAL PROPOSED REPLACED + NEW PERVIOUS SURFACES:			86,223	



Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

Table with project details: Project Name (Apple Cupertino), Site Name (Apple Site Name), Parcel Number, Site Address or APN, Tract or Parcel Map No., Site Mean Annual Precip. (MAP) (18.0 inches), and Applicable Rain Gauge (San Jose Airport [SCVURPPP]).

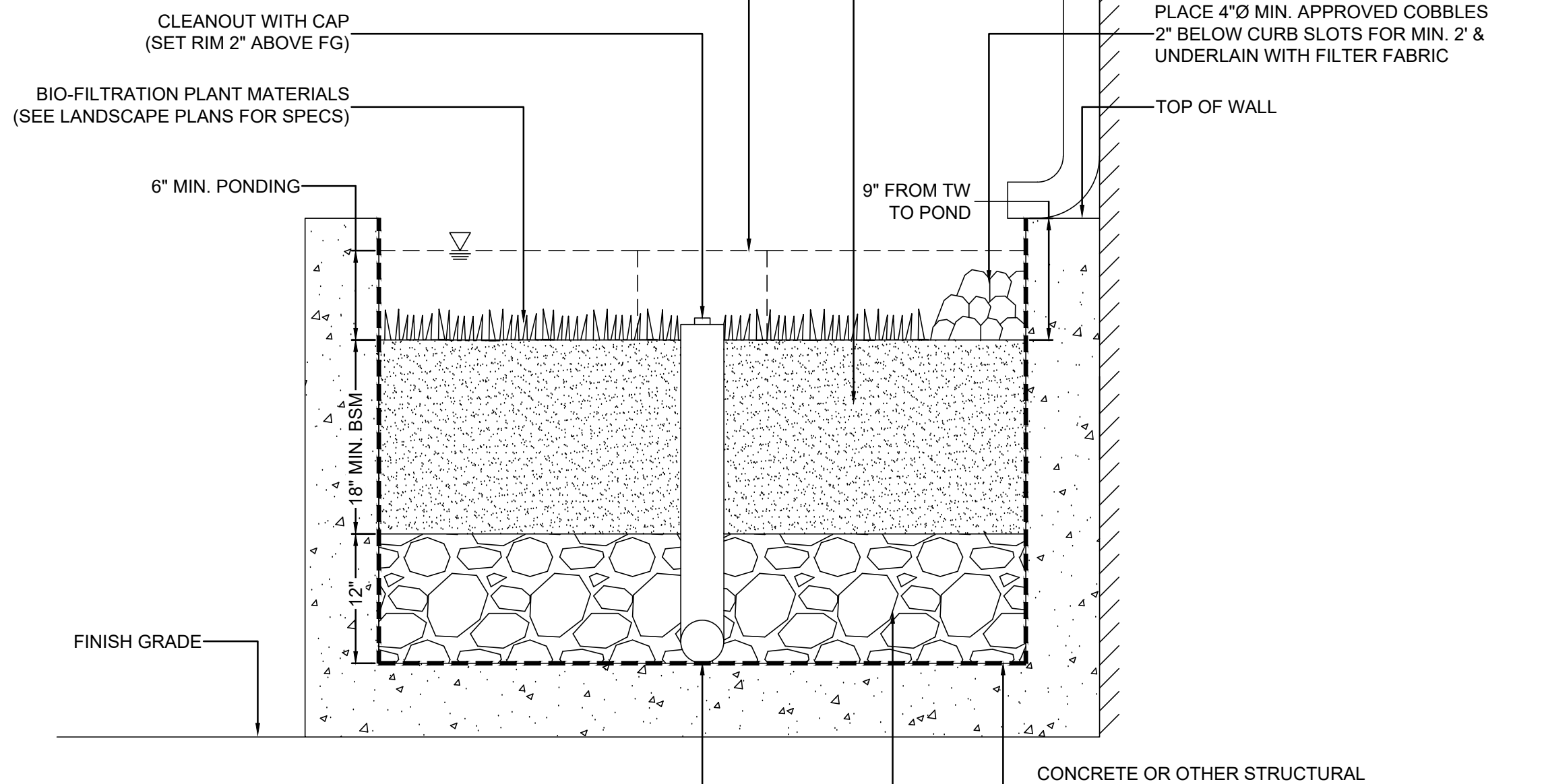
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These calculations are based on the combination flow and volume hydraulic sizing method provided in the Alameda, San Mateo, and Santa Clara County C.3 Technical Guidance Manuals. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manuals.

OVERFLOW DRAIN 6-INCH MIN. ABOVE LOW POINT OF PLANTING AREA. SEE GRADING PLANS FOR LOCATIONS AND RIM ELEVATION (TYP.) SEE DETAIL 9 ON SHEET C9.0



STORMWATER CONTROL NOTES

- 1. THE EXISTING SITE SOILS CONSIST OF CLAY (TYPE D) SOILS.
2. POTENTIAL POLLUTANTS INCLUDE MOTOR VEHICLE LUBRICANTS, COOLANTS, DISC BRAKE DUST, LITTER AND DEBRIS.
3. BIOTREATMENT SIZING IS BASED ON UNIFORM INTENSITY METHOD...
4. BIOTREATMENT AREA SHOWN ARE SCHEMATIC AND WILL BE ADJUSTED DURING FINAL DESIGN.
5. ALL TREES SHOWN IN PONDS WILL CONFORM TO THE DESIGNATED SPECIES ALLOWED IN TABLE D-1 BY THE C.3 STORMWATER CONTROL DESIGN MANUAL.
6. STORMWATER IS INTENDED TO ENTER BIOTREATMENT AREAS FROM PAVED AREAS VIA SURFACE FLOW...

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

Table for DMA calculation: Name of DMA: DMA 1. For items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA. Columns: Type of Surface, Area of surface type within DMA (Sq. Ft.), Adjust Previous Surface, Effective Impervious Area.

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

Table for DMA calculation: Name of DMA: DMA 3. For items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA. Columns: Type of Surface, Area of surface type within DMA (Sq. Ft.), Adjust Previous Surface, Effective Impervious Area.

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5.2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns. Columns: Applicable Rain Gauge, Mean Annual Precipitation (in), Unit Basin Storage Volume (in).

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Unit basin storage volume from Table 5.2: 0.58 inches. Adjusted unit basin storage volume: 0.75 inches. Required Capture Volume (in cubic feet): 5,309 cubic feet.

Unit basin storage volume from Table 5.2: 0.58 inches. Adjusted unit basin storage volume: 0.75 inches. Required Capture Volume (in cubic feet): 2,910 cubic feet.

4.0 Calculate the Duration of the Rain Event

Rainfall intensity: 0.2 inches per hour. Hours of Rain Event Duration: 3.76 hours.

4.0 Calculate the Duration of the Rain Event

Rainfall intensity: 0.2 inches per hour. Hours of Rain Event Duration: 3.76 hours.

5.0 Preliminary Estimate of Surface Area of Treatment Measure

4% of DMA impervious surface: 3,393 square feet. 2% of DMA impervious surface: 2,545 square feet. Volume of treated runoff for area in Item 5.2: 3,982 cubic feet.

5.0 Preliminary Estimate of Surface Area of Treatment Measure

4% of DMA impervious surface: 1,859 square feet. 2% of DMA impervious surface: 1,395 square feet. Volume of treated runoff for area in Item 5.2: 2,182 cubic feet.

6.0 Initial Adjustment of Depth of Surface Ponding Area

Subtract Item 5-3 from Item 3-3: 1,327 cubic feet. Divide Item 6-1 by Item 5-2: 0.5 feet. Convert Item 6-2 from ft to inches: 6.3 inches.

6.0 Initial Adjustment of Depth of Surface Ponding Area

Subtract Item 5-3 from Item 3-3: 727 cubic feet. Divide Item 6-1 by Item 5-2: 0.5 feet. Convert Item 6-2 from ft to inches: 6.3 inches.

7.0 Optimize Size of Treatment Measure

Enter an area larger or smaller than Item 5-2 based off plan: 2070 sq.ft. Volume of treated runoff for area in Item 7-1: 3,239 cubic feet. Subtract Item 7-2 from Item 3-3: 2,070 cubic feet. Divide Item 7-3 by Item 7-1: 1,001 feet.

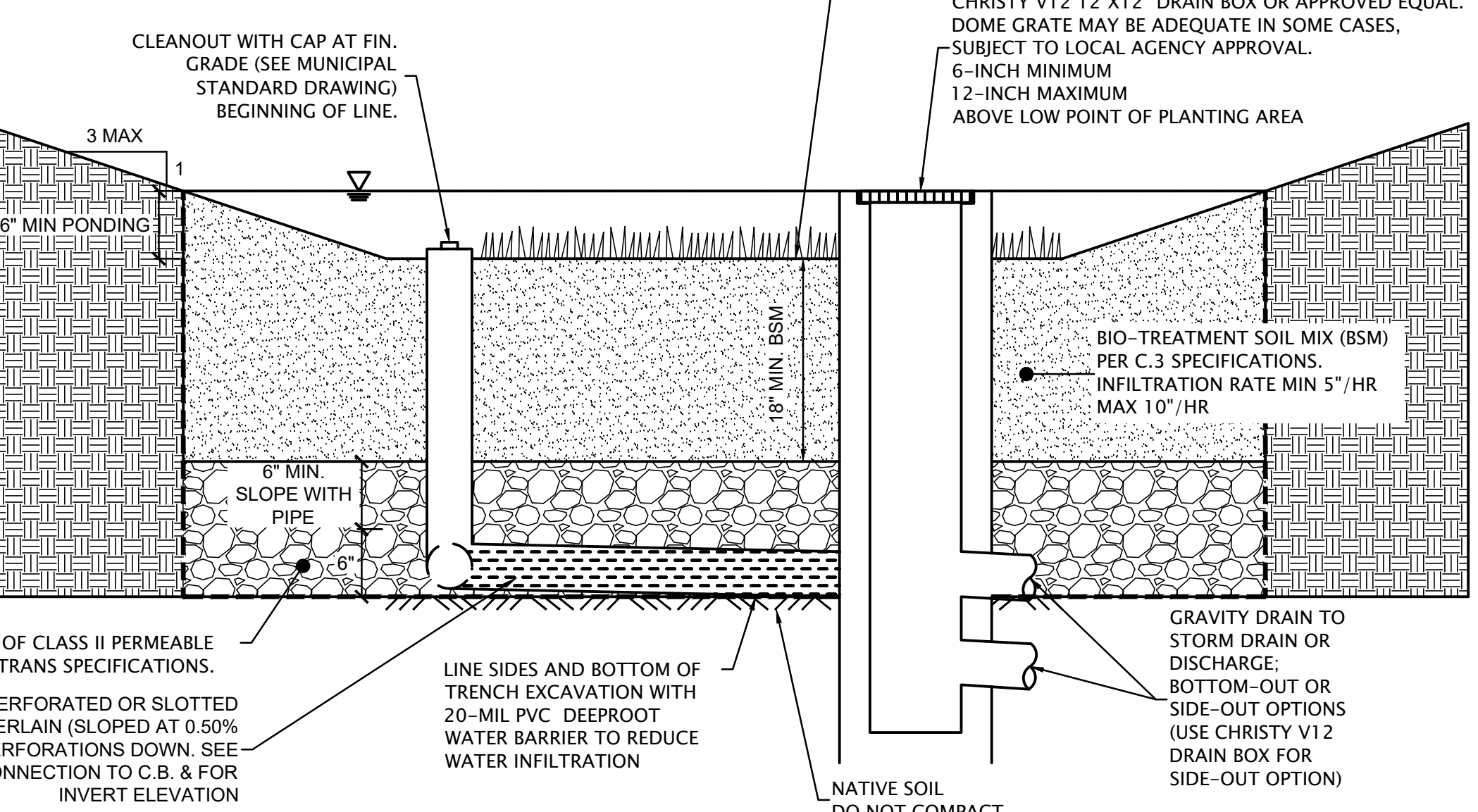
7.0 Optimize Size of Treatment Measure

Enter an area larger or smaller than Item 5-2: 1409 sq.ft. Volume of treated runoff for area in Item 7-1: 2,205 cubic feet. Subtract Item 7-2 from Item 3-3: 705 cubic feet. Divide Item 7-3 by Item 7-1: 0.50 feet.

- 1. PLACEMENT OF BIOTREATMENT SOIL MIX SHALL BE CONSTRUCTED UNDER THE OBSERVATION OF THE SOILS ENGINEER.
2. SOIL AT BOTTOM OF RETENTION AREA SHALL HAVE A MINIMUM PERCOLATION RATE OF 5 INCHES/HOUR AND A MAXIMUM RATE OF 10 INCHES/HOUR.
3. IN-SITE TESTING SHALL BE PERFORMED BY THE SOILS ENGINEER TO VERIFY PERCOLATION RATE.

FLOW THROUGH PLANTER (02)

NOTE: SURFACE AREA OF THE BIOTREATMENT SOIL SHALL EQUAL 4% OF THE AREA OF THE SITE THAT DRAINS TO TREATMENT MEASURE. UNLESS SIZING CALCULATIONS ARE SUBMITTED DEMONSTRATING THAT PROVISION C.3 REQUIREMENTS ARE MET USING A SMALLER SURFACE AREA.



Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

Table with project details: Project Name (Apple Cupertino), Site Name (Apple Site Name), Parcel Number, Site Address or APN, Tract or Parcel Map No., Site Mean Annual Precip. (MAP) (18.0 inches), and Applicable Rain Gauge (San Jose Airport [SCVURPPP]).

Worksheet for Calculating the Combination Flow and Volume Method

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2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

Table for DMA calculation: Name of DMA: DMA 4. For items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA.

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

Table for DMA calculation: Name of DMA: DMA 7. For items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA.

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5.2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns. Columns: Applicable Rain Gauge, Mean Annual Precipitation (in), Unit Basin Storage Volume (in).

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5.2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns. Columns: Applicable Rain Gauge, Mean Annual Precipitation (in), Unit Basin Storage Volume (in).

Unit basin storage volume from Table 5.2: 0.58 inches. Adjusted unit basin storage volume: 0.75 inches. Required Capture Volume (in cubic feet): 885 cubic feet.

Unit basin storage volume from Table 5.2: 0.58 inches. Adjusted unit basin storage volume: 0.75 inches. Required Capture Volume (in cubic feet): 932 cubic feet.

4.0 Calculate the Duration of the Rain Event

Rainfall intensity: 0.2 inches per hour. Hours of Rain Event Duration: 3.76 hours.

4.0 Calculate the Duration of the Rain Event

Rainfall intensity: 0.2 inches per hour. Hours of Rain Event Duration: 3.76 hours.

5.0 Preliminary Estimate of Surface Area of Treatment Measure

4% of DMA impervious surface: 566 square feet. 2% of DMA impervious surface: 424 square feet. Volume of treated runoff for area in Item 5.2: 664 cubic feet.

5.0 Preliminary Estimate of Surface Area of Treatment Measure

4% of DMA impervious surface: 596 square feet. 2% of DMA impervious surface: 447 square feet. Volume of treated runoff for area in Item 5.2: 699 cubic feet.

6.0 Initial Adjustment of Depth of Surface Ponding Area

Subtract Item 5-3 from Item 3-3: 221 cubic feet. Divide Item 6-1 by Item 5-2: 0.5 feet. Convert Item 6-2 from ft to inches: 6.3 inches.

6.0 Initial Adjustment of Depth of Surface Ponding Area

Subtract Item 5-3 from Item 3-3: 233 cubic feet. Divide Item 6-1 by Item 5-2: 0.5 feet. Convert Item 6-2 from ft to inches: 6.3 inches.

7.0 Optimize Size of Treatment Measure

Enter an area larger or smaller than Item 5-2: 428 sq.ft. Volume of treated runoff for area in Item 7-1: 670 cubic feet. Subtract Item 7-2 from Item 3-3: 215 cubic feet. Divide Item 7-3 by Item 7-1: 0.50 feet.

7.0 Optimize Size of Treatment Measure

Enter an area larger or smaller than Item 5-2: 451 sq.ft. Volume of treated runoff for area in Item 7-1: 726 cubic feet. Subtract Item 7-2 from Item 3-3: 207 cubic feet. Divide Item 7-3 by Item 7-1: 0.50 feet.

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5.2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns. Columns: Applicable Rain Gauge, Mean Annual Precipitation (in), Unit Basin Storage Volume (in).

Unit basin storage volume from Table 5.2: 0.58 inches. Adjusted unit basin storage volume: 0.75 inches. Required Capture Volume (in cubic feet): 654 cubic feet.

4.0 Calculate the Duration of the Rain Event

Rainfall intensity: 0.2 inches per hour. Hours of Rain Event Duration: 3.76 hours.

5.0 Preliminary Estimate of Surface Area of Treatment Measure

4% of DMA impervious surface: 418 square feet. 2% of DMA impervious surface: 313 square feet. Volume of treated runoff for area in Item 5.2: 490 cubic feet.

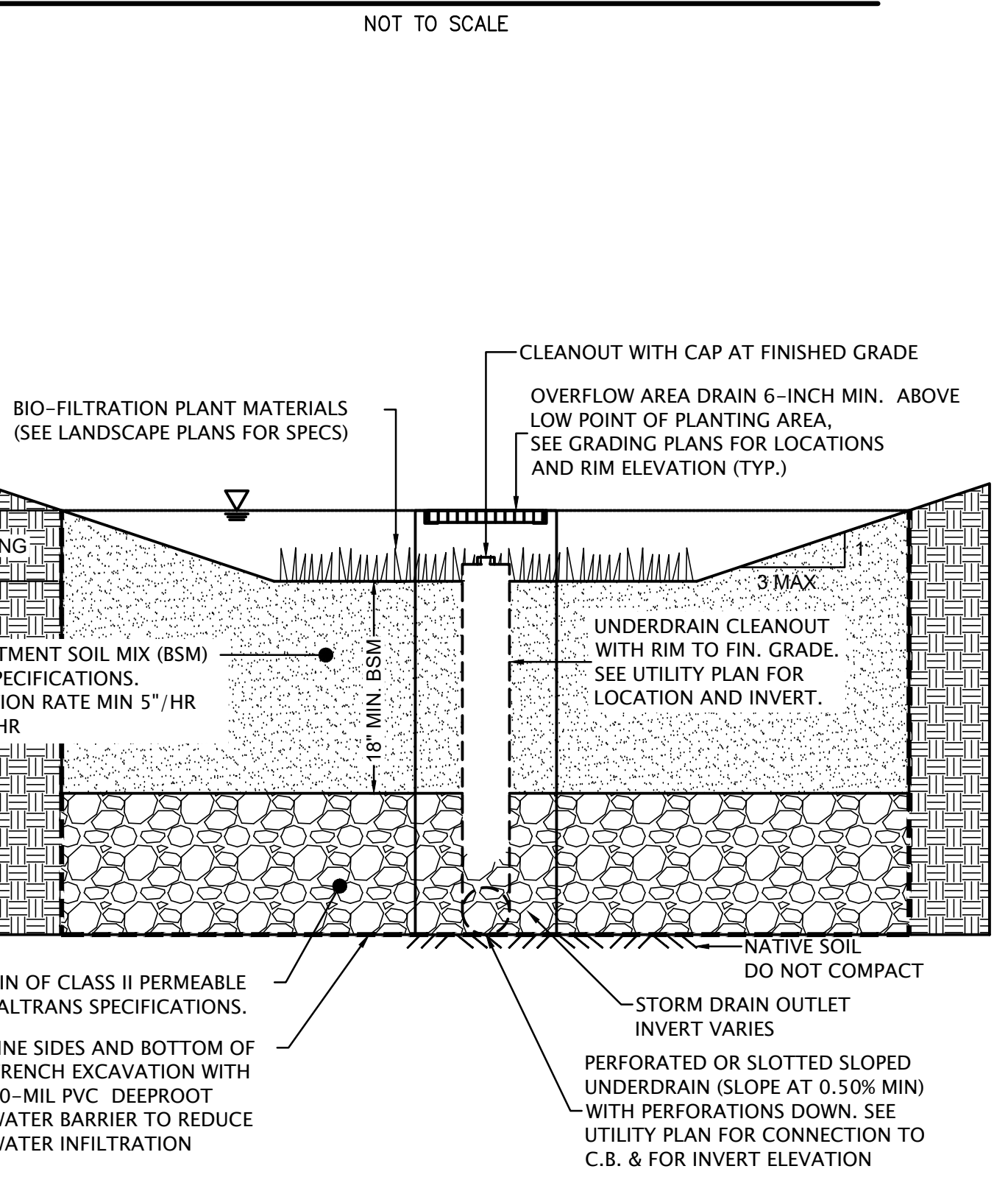
6.0 Initial Adjustment of Depth of Surface Ponding Area

Subtract Item 5-3 from Item 3-3: 163 cubic feet. Divide Item 6-1 by Item 5-2: 0.5 feet. Convert Item 6-2 from ft to inches: 6.3 inches.

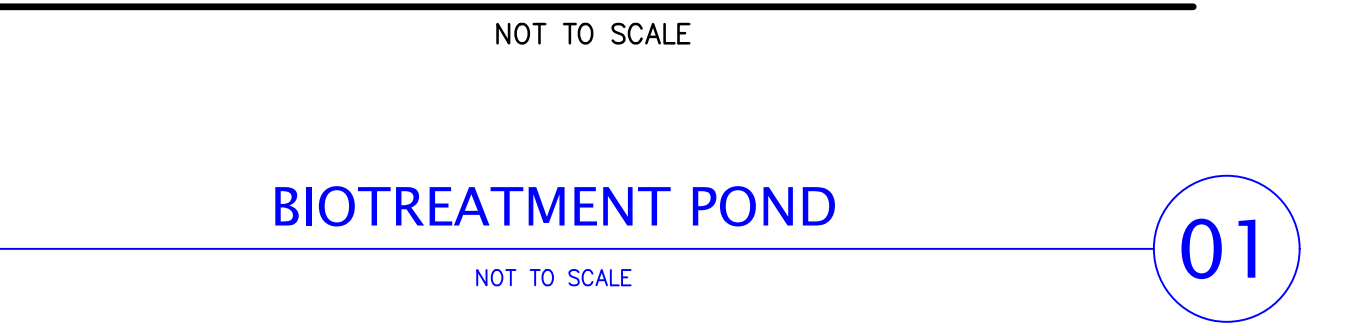
7.0 Optimize Size of Treatment Measure

Enter an area larger or smaller than Item 5-2: 316 sq.ft. Volume of treated runoff for area in Item 7-1: 494 cubic feet. Subtract Item 7-2 from Item 3-3: 159 cubic feet. Divide Item 7-3 by Item 7-1: 0.50 feet.

BIOTREATMENT POND (LINED) PROFILE VIEW



BIOTREATMENT POND (LINED) SECTION VIEW



STORMWATER CONTROL NOTES & DETAILS Apple, Inc.

09.01.2021