CITY OF ARVIN — STATE OF CALIFORNIA

CIVIL DEVELOPMENT PLANS FOR URBAN GREENING GRANT PROJECT

GENERAL NOTES

1. ALL GRADING AND EXCAVATION WORK SHALL CONFORM WITH THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE (CBC), CITY STANDARDS, CALTRANS STANDARDS AND ANY OTHER APPLICABLE REQUIREMENTS.
2. ALL EXISTING IMPROVEMENTS OR UTILITIES OUTSIDE THE LIMITS OF WORK, OR DESIGNATED TO BE PRESERVED OR PROTECTED, THAT ARE REMOVED, DAMAGED, OR UNDERCUT, SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 2 WORKING DAYS IN ADVANCE OF WORK AFFECTING EXISTING IMPROVEMENTS.
4. THE CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
5. UNAUTHORIZED CHANGES AND USES: THE ENGINEER WHO PREPARED THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
6. THE CONTRACTOR SHALL PROVIDE TRAFFIC AND PEDESTRIAN CONTROL AS REQUIRED AND TAKE ADEQUATE MEASURES TO PROTECT THE CONSTRUCTION STAFF. CONSTRUCTION SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE DESIGNATED LIMITS OF CONSTRUCTION EXCEPT AS INDICATED OTHERWISE ON THE PLANS AND/OR APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL SPECIFICALLY COORDINATE SCHEDULES AND WORK PLANS FOR WORK OUTSIDE THE LIMITS OF CONSTRUCTION, WITH THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL RESTORE ANY EXISTING FACILITIES OR VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION DAMAGED BY ITS OPERATIONS AT NO EXPENSE TO THE OWNER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE DUST CONTROL. PREVENTATIVE MEASURES TO BE TAKEN BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT REGULATIONS. THE CONTRACTOR SHALL DEVELOP A DUST CONTROL PLAN IF NECESSARY.
9. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM APPROPRIATE PUBLIC AGENCIES BEFORE START OF WORK AND SHALL COMPLY WITH ALL REQUIREMENTS CONTAINED THEREIN.
10. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UTILITIES. HOWEVER, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES ENCOUNTERED BUT NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF UTILITIES PRIOR TO THE COMMENCEMENT OF ANY WORK. POT HOLE, AS NECESSARY, AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT U.S.A. (811) PRIOR TO ANY EXCAVATING.
11. SITES GREATER THAN OR EQUAL TO 1 ACRE SHALL BE REQUIRED TO CREATE AND IMPLEMENT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT REQUIREMENTS. THIS SHALL BE CREATED AND IMPLEMENTED BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE CITY. PROJECTS LESS THAN 5 ACRES MAY QUALIFY FOR AN EROSIVITY WAIVER. THE CONTRACTOR MUST PROVIDE A WDID NUMBER TO THE CITY PRIOR TO COMMENCING ANY SOIL DISTURBING ACTIVITIES.
12. FOR ALL PROJECTS REGARDLESS OF WHETHER A SWPPP IS REQUIRED OR NOT, SHALL MAINTAIN SITE CONDITIONS TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED ROAD SURFACES. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT, ETC. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTERING ONTO THE PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. CONTRACTOR SHALL INSTALL A CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF WORK.
13. THE CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE REQUIREMENTS OF THE BEST MANAGEMENT PRACTICES (BMP'S) PRESCRIBED BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION.
14. ALL ITEMS TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE AT THE EXPENSE OF THE CONTRACTOR UNLESS NOTED OTHERWISE.
15. THE CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS THE CITY, ITS ENGINEER AND CONSULTANTS, THEIR OFFICERS, EMPLOYEES AND AGENTS, FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGES ARISING OR ALLEGED FROM THE PERFORMANCE OF THE WORK DESCRIBED ON THESE PLANS, NOT INCLUDING NEGLIGENCE ON THE PART OF THE CITY.
16. THE CONTRACTOR SHALL COORDINATE PROJECT SCHEDULE AND WORK WITH THE CITY ENGINEER, AND SHALL YIELD TO ANY ONGOING CITY FUCNTIONS.
17. CONSTRUCTION AREAS SHALL BE RESTORED TO THEIR ORIGINAL OR DESIGNED CONDITION.
18. THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE USED ON ANY OTHER WORK EXCEPT BY AGREEMENT WITH THE ENGINEER. WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED ON SITE. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.
19. ALL WORK SHALL BE IN COMPLIANCE WITH CAL-OSHA REQUIREMENTS (CALIF. CODE OF REGULATIONS, TITLE 8) WITH ATTENTION DIRECTED TOWARDS SECTION 1541 DEALING WITH SLOPING AND SHORING TRENCH WALLS.

UTILITY CONTACTS

ARVIN COMMUNITY SERVICES DISTRICT (ACSD)
309 CAMPUS DRIVE
ARVIN, CA 93203
(661) 854-2127
ATTN: RAUL BARRAZA

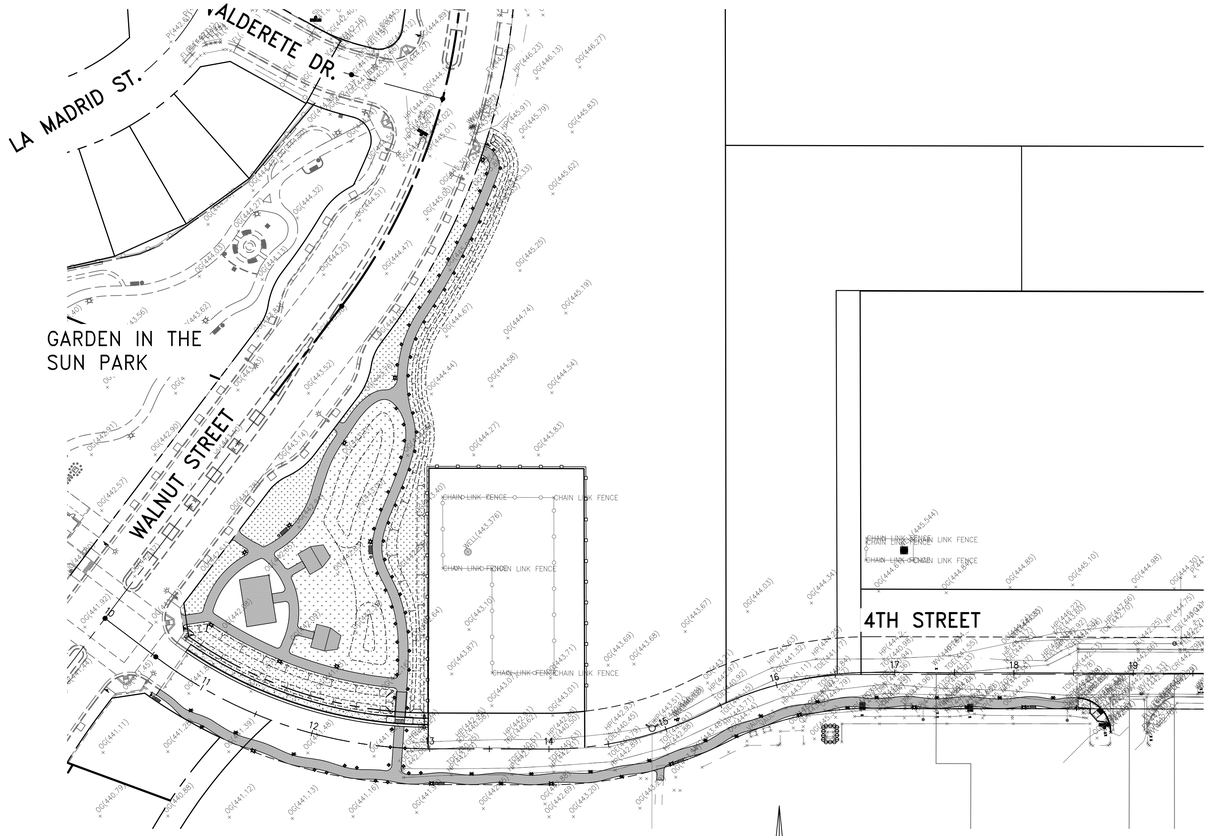
ARVIN SANITARY SEWER
2401 EL CAMINO REAL
ARVIN, CA 93203
(661) 854-2421
ATTN: DALE DUCHARME

AT&T
4545 CALIFORNIA AVENUE, SUITE 400
BAKERSFIELD, CA 93309
(559) 228-7006
ATTN: PATRICK MCGEE, DESIGN ENGINEER

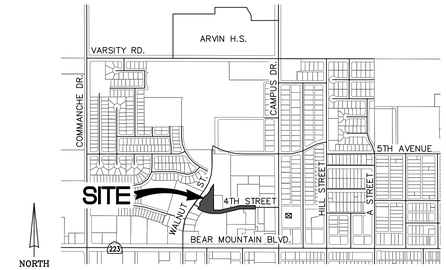
SOUTHERN CALIFORNIA GAS COMPANY
1510 N. CHESTER AVENUE
BAKERSFIELD, CA 93301
(661) 399-1150
(661) 301-5122

ATTN: DAVID RODRIGUEZ
SPECTRUM
4450 CALIFORNIA AVENUE
BAKERSFIELD, CA 93309
(661) 395-3351
ATTN: GREG EOFF

PACIFIC GAS & ELECTRIC (PG&E)
4104 WIBLE ROAD
BAKERSFIELD, CA 93313
(661) 398-5991
ATTN: MATT COLEMAN



INDEX MAP
NOT TO SCALE
NORTH



VICINITY MAP

CIVIL ENGINEER
DEWALT CORPORATION
1930 22nd STREET
BAKERSFIELD, CA 93301
(661) 323-4600
www.dewaltcorp.com

PROJECT ACREAGE
2.23 ACRES

ELECTRICAL ENGINEER
JMPE ELECTRICAL ENGINEERING
5500 MING AVE #251
BAKERSFIELD, CA 93309
(805) 318-0560
www.jmpe.com

OWNER
CITY OF ARVIN
200 CAMPUS DRIVE
ARVIN, CA 932.03
(661) 854-3134

LANDSCAPE ARCHITECT
LAND+ARC ENTERPRISE
1201 24TH STREET, SUITE B110-161
BAKERSFIELD, CA 93301
(661) 426-9261
www.landarcenterprise.com

BASIS OF COORDINATES

THE COORDINATES ARE NAD83(CORS), EPOCH 2010.00, CALIFORNIA STATE PLANE COORDINATES, ZONE 5.

THE STATE PLANE COORDINATES WERE DERIVED USING OPUS (ONLINE POSITIONING USERS SERVICE). THE FOLLOWING CORS STATIONS WERE USED BY OPUS TO DETERMINE THE COORDINATES:

PID DN7419 P560 STOKESPROPCS2005 CORS ARP
PID DN7416 P554 GORMANCRK CS2006 CORS ARP
PID DN7422 P567 RIOBRAVO CS2005 CORS ARP

THE IGS RAPID ORBIT WAS USED TO PROCESS THE DATA.

SITE BASIS OF BEARINGS

THE BEARING OF N00°04'25"W BETWEEN THE FOUND POINT NUMBER 105 AND POINT NUMBER 50537, WAS BASED ON THE ABOVE BASIS OF COORDINATES AND WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

VERTICAL DATUM

THE VERTICAL DATUM IS BASED ON NAVD 88 (COMPUTED USING GEOID 12A). THE ELEVATIONS WERE DERIVED FROM GPS OBSERVATIONS.

SITE BENCHMARK

TOP OF MONUMENT AT THE INTERSECTION OF VARSITY AVENUE AND CAMPUS DRIVE, POINT NUMBER 50537, BASED ON NAVD 88 VERTICAL DATUM. ELEVATION=452.62

APPROVED BY:

ADAM OJEDA, R.C.E. 79842
CITY ENGINEER — DATE: 7-10-20

(STREETS) LIST OF ESTIMATED MATERIALS

STREETS	QUANTITY
DECOMPOSED GRANITE	17,455 S.F.
4" THICK CONCRETE SIDEWALK	1,065 S.F.
6" CURB WITH 24" GUTTER	215 L.F.
CURB RAMPS	1 EA.
LANDSCAPING	36,490 S.F.
6' BENCH	4 EA.
4' BENCH	8 EA.
TRASH RECEPTACLES	12 EA.
FUNDING SOURCE/ROAD SIGNS	9 EA.

ESTIMATED EARTHWORK QUANTITIES

CUT	FILL
1,594 C.Y.	1,412 C.Y.

NOTE:
THE CUT AND FILL QUANTITIES SHOWN ON THIS PLAN ARE FOR PERMIT PURPOSES ONLY. THE CONTRACTOR SHALL, AFTER EXAMINING THE PLAN, SOILS REPORT AND THE SITE TERRAIN, PREPARE HIS ESTIMATED EARTHWORK INDEPENDENTLY OF THE ENGINEER'S.

DISTURBED AREA
2.23 ACRES

SHEET INDEX

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C2 DETAILS, NOTES AND LEGEND
C3 GRADING PLAN
C4 GRADING PLAN
C5 GRADING SECTIONS
C6 EROSION AND SEDIMENT CONTROL
C7 BEST MANAGMENT PRACTICES
C8 SIGN LOCATION PLAN

ELECTRICAL
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E2 SITE LIGHTING PLAN
E2.1 SITE PHOTOMETRIC PLAN
E3 ENLARGED SITE LIGHTING
E3.1 SITE PHOTOMETRIC PLAN

LANDSCAPING & IRRIGATION
L1 LANDSCAPE SITE PLAN
L2 TREE IRRIGATION PLAN
L3 SHRUB IRRIGATION PLAN
L4 IRRIGATION NOTES & DETAILS
L5 TREE PLANTING PLAN
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PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP.

THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.

ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA.

UNDERGROUND SERVICE ALERT SHALL BE CONTACTED TWO WORKING DAYS PRIOR TO CONSTRUCTION. (811)

ENGINEER'S STATEMENT

THESE PLANS AND SPECIFICATIONS WERE PREPARED BY ME OR UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH CITY OF ARVIN ORDINANCES, STANDARDS, AND DESIGN CRITERIA, AND INCLUDE ALL IMPROVEMENT REQUIREMENTS OF THE ADVISORY AGENCY OR OTHER REVIEW BOARD.

ANY ERRORS, OMISSIONS, OR OTHER VIOLATIONS OF THOSE ORDINANCES, STANDARDS OR DESIGN CRITERIA ENCOUNTERED DURING CONSTRUCTION SHALL BE CORRECTED AND SUCH CORRECTIONS REFLECTED ON CORRECTED PLANS SUBMITTED TO THE CITY ENGINEER.

REGISTERED PROFESSIONAL ENGINEER — MICHAEL T. WOOD — C 64410 — Exp. 6-30-21 — CIVIL — STATE OF CALIFORNIA

MICHAEL TODD WOOD R.C.E. 64410 EXP. 06-30-21 — DATE: 07/10/2020

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR URBAN GREENING GRANT PROJECT
COVER SHEET AND GENERAL NOTES

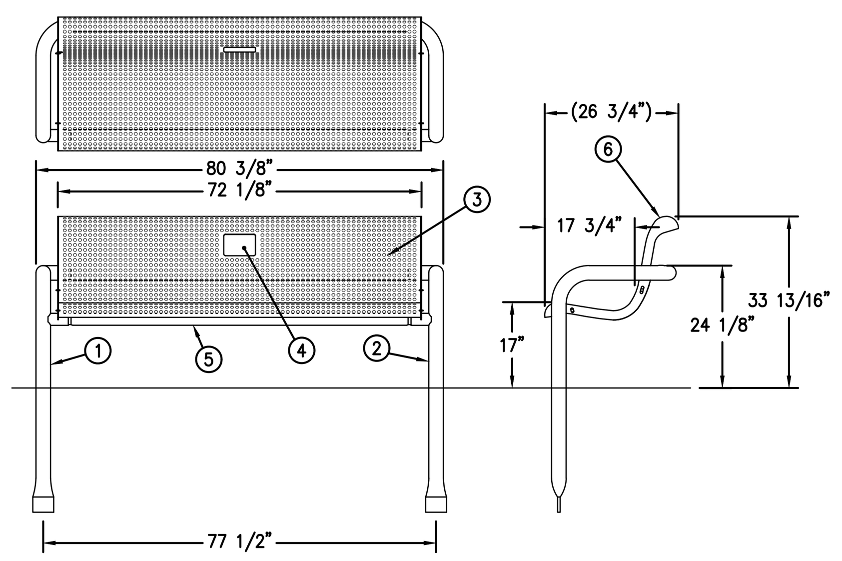
DEWALT Corporation
1930 22nd STREET BAKERSFIELD, CA. 93301
PH. (661) 323-4600 FAX (661) 323-4674
ENGINEERING • PLANNING • SURVEYING •
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

DATE	REVISIONS

DRAWN BY:	A. Vargas
CHECKED BY:	T.Wood
APPROVED BY:	T. Wood
DATE:	7/13/2020
JOB NO:	18-304
ACAD FILE:	18-304 C1-TS

SHEET C1 OF: 20

PLOT DATE: July 13, 2020 3:02:56 PM

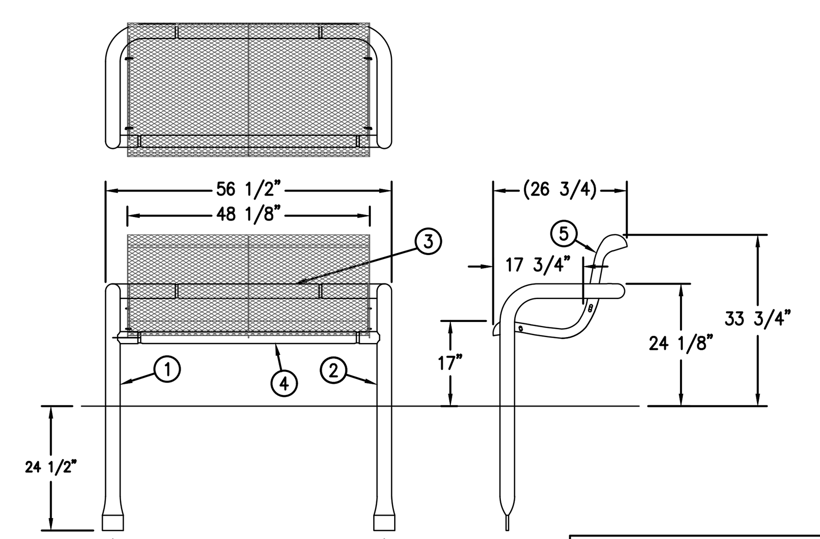


WABASH VALLEY #SP406P			
6' CNTMPRY MEMORIAL BENCH – ING, PERF			
6	1	SEAT	8228
5	1	TUBE	7413
4	1	PLAQUE	7167
3	1	TUBE	7107
2	1	LEG	7026 – LEFT
1	1	LEG	7025 – RIGHT

NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND PER ASME Y14.5M–1994.
2. ALL DIMENSIONS ARE AFTER PLASTISOL COATING.

1 6' PARK BENCH DETAIL

SCALE: N.T.S.

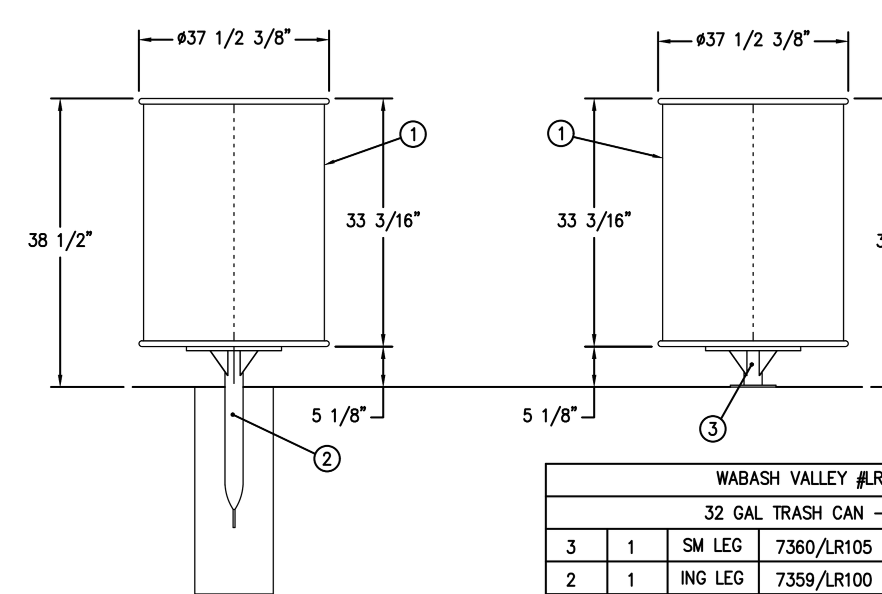


WABASH VALLEY #CN410D			
4' CNTMPRY BENCH – ING, XM			
5	1	SEAT	8205
4	2	TUBE	7413
3	1	TUBE	7106
2	1	LEG	7026 – LEFT
1	1	LEG	7025 – RIGHT

NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND PER ASME Y14.5M–1994.
2. ALL DIMENSIONS AFTER PLASTISOL COATING.
3. DO NOT SCALE DRAWING.

2 4' PARK BENCH DETAIL

SCALE: N.T.S.

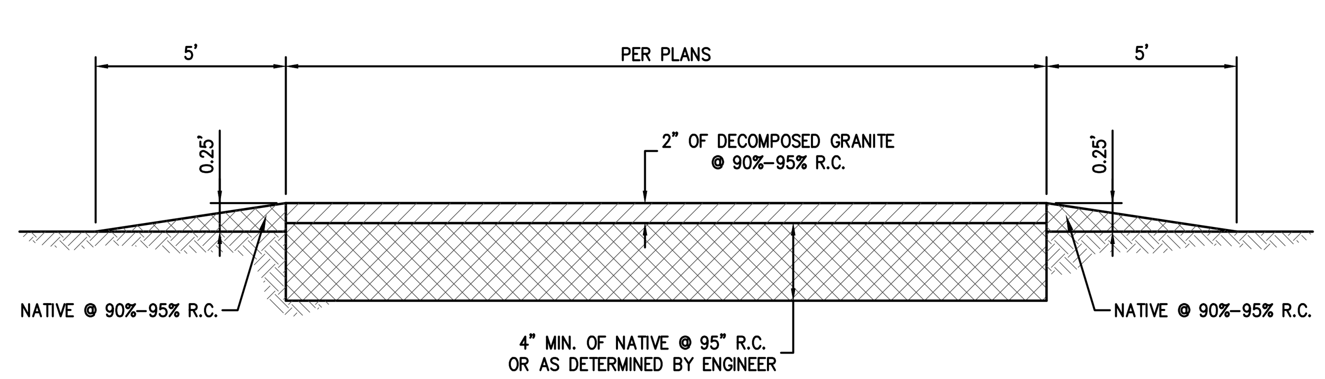


WABASH VALLEY #LR300P			
32 GAL TRASH CAN – PERF			
3	1	SM LEG	7360/LR105
2	1	ING LEG	7359/LR100
1	1	RECEPT	9560
WABASH VALLEY #FT100N			
FLAT TOP LID W/ 8 OPENING I.S.			
	1	LID	7172
WABASH VALLEY #LR310N			
32 GAL LINER			
	1	RECEPT	RPL32

NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND PER ASME Y14.5M–1994.
2. ALL DIMENSIONS INCLUDE TO PLASTISOL COATING.
3. FINISHED PART TO BE FREE OF ALL BURRS AND SHARP EDGES.

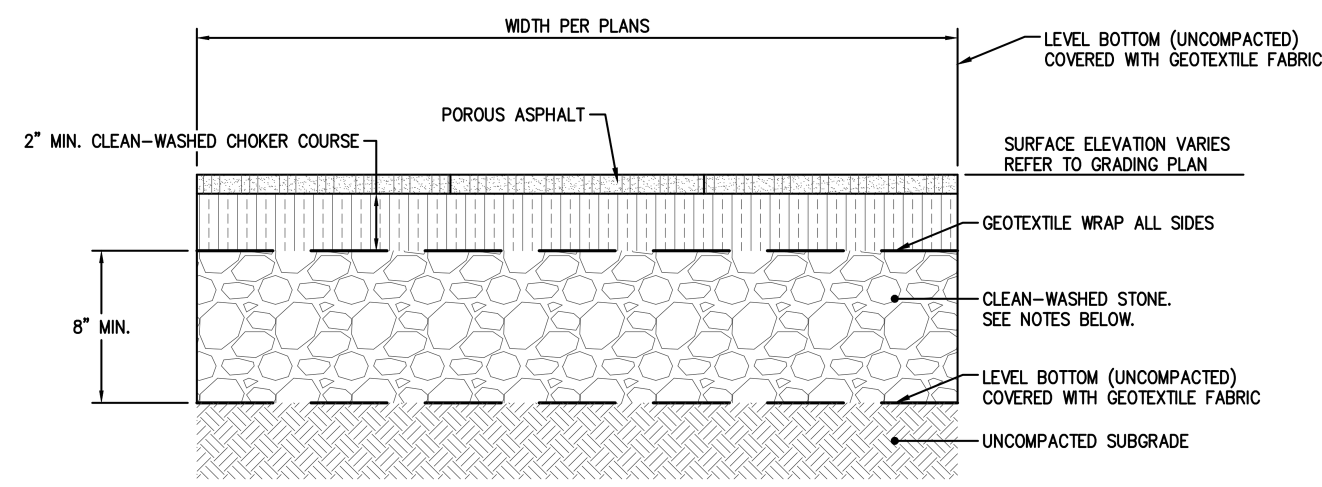
3 32-GALLON TRASH RECEPTACLE

SCALE: N.T.S.



4 DECOMPOSED GRANITE SECTION

SCALE: 3" = 1'-0"



NOTES

1. ALL AGGREGATES WITHIN POROUS PAVER BED SHALL BE CLEAN–WASHED, DEFINED AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER THE AASHTO T–11 WASH LOSS TEST.
2. CHOKER COURSE AGGREGATE SHALL MEET THE FOLLOWING SPECIFICATIONS:

REQUIRED CHOKER COURSE GRADATION	
U.S. STANDARD SIEVE SIZE	PERCENT PASSING
1–½" (37.5 mm)	100
1" (25 mm)	95 – 100
½" (19 mm)	25 – 60
#4 (4.75 mm)	0 – 10
#8 (2.36 mm)	0 – 5

3. GEOTEXTILE SHALL CONSIST OF POLYPROPYLENE FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:
   GRAB TENSILE STRENGTH (ASTM–D4632) > OR = 120 LBS.
   MULLEN BURST STRENGTH (ASTM–D3786) > OR = 225 LBS.
   FLOW RATE (ASTM–D4491) > OR = 95 GAL./MIN./FT²
   UV RESISTANCE AFTER 500 HRS. (ASTM–D4355) > OR = 70%
   HEAT–SET OR HEAT CALENDARED FABRICS ARE NOT PERMITTED
4. POROUS BITUMINOUS ASPHALT:
   - BITUMINOUS SURFACE SHALL BE LAID WITH A BITUMINOUS MIX OF 5.75% TO 6% BY WEIGHT DRY AGGREGATE. IN ACCORDANCE WITH ASTM D6390, DRAIN DOWN OF THE BINDER SHALL BE NO GREATER THAN 0.3%. AGGREGATE MATERIAL IN THE ASPHALT SHALL BE CLEAN, OPEN–GRADED, AND A MINIMUM OF 75% FRACTURED WITH AT LEAST ONE FRACTURED FACE BY MECHANICAL MEANS OF EACH INDIVIDUAL PARTICLE LARGER THAN ¼", AND IT SHALL HAVE THE FOLLOWING GRADATIONS:

POROUS ASPHALT BINDER COURSE AGGREGATE GRADATION	
U.S. STANDARD SIEVE SIZE	PERCENT PASSING BY WEIGHT
1"	100%
¾"	90–100%
½"	80–100%
⅜"	50–80%
#4	10–20%
#8	5–10%
#40	3–8%
#200	0–3%

POROUS ASPHALT WEARING COURSE AGGREGATE GRADATION	
U.S. STANDARD SIEVE SIZE	PERCENT PASSING BY WEIGHT
⅝"	100%
½"	95-100%
⅜"	70-95%
#4	20-40%
#8	10-20%
#40	0-8%
#200	0-3%

   - NEAT ASPHALT BINDER MODIFIED WITH AN ELASTOMERIC POLYMER TO PRODUCE A BINDER MEETING THE REQUIREMENTS OF PG 76–22 AS SPECIFIED IN AASHTO MP–1. THE ELASTOMER POLYMER SHALL BE STYRENE–BUTADIENE–STYRENE (SBS), OR APPROVED EQUAL, APPLIED AT A RATE OF 3% BY WEIGHT OF THE TOTAL BINDER.
   - HYDRATED LIME SHOULD BE ADDED AT A DOSAGE RATE OF 1% BY WEIGHT OF THE TOTAL DRY AGGREGATE TO MIXES CONTAINING GRANITE. HYDRATED LIME SHALL MEET THE REQUIREMENTS OF ASTM C 977. THE ADDITIVE MUST BE ABLE TO PREVENT THE SEPARATION OF THE ASPHALT BINDER FROM THE AGGREGATE AND ACHIEVE A REQUIRED TENSILE STRENGTH RATIO (TSR) OF AT LEAST 80% ON THE ASPHALT MIX WHEN TESTED IN ACCORDANCE WITH AASHTO T 283. THE ASPHALTIC MIX SHALL BE TESTED FOR ITS RESISTANCE TO STRIPPING BY WATER IN ACCORDANCE WITH ASTM D–1664. IF THE ESTIMATED COATING AREA IS NOT ABOVE 95 PERCENT, ANTI–STRIPPING AGENTS SHALL BE ADDED TO THE ASPHALT.
   - THE ASPHALTIC MIX SHALL BE TESTED FOR ITS RESISTANCE TO STRIPPING BY WATER IN ACCORDANCE WITH ASTM D–3625. IF THE ESTIMATED COATING AREA IS NOT ABOVE 95 PERCENT, ANTI–STRIPPING AGENTS SHALL BE ADDED TO THE ASPHALT.
5. POROUS CONCRETE:
   - POROUS CONCRETE SHALL UTILIZE PORTLAND CEMENT TYPE I OR II CONFORMING TO ASTM C 150 OR PORTLAND CEMENT TYPE IP OR IS CONFORMING TO ASTM C 595:
   - AGGREGATE SHALL BE NO. 8 COARSE AGGREGATE (⅜ TO NO. 16) PER ASTM C 33 OR NO. 89 COARSE AGGREGATE (⅜ TO NO. 50) PER ASTM D 448.
   - AN AGGREGATE/CEMENT RATIO RANGE OF 4:1 TO 4.5:1 AND A WATER/CEMENT RATIO RANGE OF 0.34 TO 0.40 SHOULD PRODUCE PERVIOUS PAVEMENT OF SATISFACTORY PROPERTIES IN REGARD TO PERMEABILITY, LOAD CARRYING CAPACITY, AND DURABILITY CHARACTERISTICS.
6. PERMEABLE PAVER AND GRID SYSTEMS:
   - PERMEABLE PAVER AND GRID SYSTEMS SHALL CONFORM TO MANUFACTURER SPECIFICATIONS.
   - THE SYSTEMS SHALL HAVE A MINIMUM FLOW THROUGH RATE OF 5 IN/HR AND A VOID PERCENTAGE OF NO LESS THAN 10%.
   - GRAVEL USED IN INTERLOCKING CONCRETE PAVERS OR PLASTIC GRID SYSTEMS MUST BE WELL GRADED AND WASHED TO ENSURE PERMEABILITY.

5 POROUS PAVEMENT DETAIL (ADDITIVE ALTERNATIVE A - SEE NOTE ON CIVIL PLANS)

SCALE: N.T.S.

GRADING NOTES

1. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE CITY OF ARVIN STANDARDS AND SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED AND MADE A PART HEREOF IN THE GEOTECHNICAL ENGINEERING INVESTIGATION BY KRAZAN AND ASSOCIATES, DATED MAY 22, 2019 AND SIGNED BY: DAVID R. JAROSZ II, PE, GE.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY BUILDING OFFICIAL 48 HOURS PRIOR TO PLACING OF ANY FILL MATERIAL.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUALITY ASSURANCE AND COMPLIANCE INCLUDING THE ACHIEVEMENT OF PROPER COMPACTION OF SUBGRADE BASE AND SURFACE LAYERS AND SHALL PROVIDE APPLICABLE TESTS AT ITS OWN COST. THE CITY AT ITS DISCRETION, MAY CONDUCT TESTS TO CONFIRM COMPLIANCE OF WORK DEEMED COMPLETE BY THE CONTRACTOR. IN THE EVENT OF NON–COMPLIANT WORK, RETESTS SHALL BE NECESSARY AT THE COST OF THE CONTRACTOR.
4. FILL MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE SOILS ENGINEER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING TO WITHIN ± 0.1'. IF ELEVATION OF DESIGN ELEVATION SHOULD BE FOUND TO BE MORE THAN ± 0.1' OFF OF DESIGN ELEVATION AFTER COMPLETION AND ACCEPTANCE OF GRADING, THE CONTRACTOR SHALL RETURN AND CORRECT THE GRADING AT NO COST TO THE OWNER.
6. THE CONTRACTOR SHALL TERRACE ALL PADS WHEN ELEVATION DIFFERENCE BETWEEN PADS IS GREATER THAN 0.3' UNLESS OTHERWISE SHOWN.
7. ALL AREAS ON THE SITE ON WHICH STRUCTURES ARE TO BE PLACED MUST BE COMPACTED TO 95% DENSITY, FOR A MINIMUM DISTANCE OF 5' IN ALL DIRECTIONS FROM THE FOUNDATIONS OF THE STRUCTURE.
8. ALL FILL SHALL CONFORM TO THE REQUIREMENTS FOR "ENGINEERED FILL" AS DESCRIBED IN THE GEOTECHNICAL REPORT.
9. FILL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING SIX (6) INCHES IN COMPACTED THICKNESS AND COMPACTED AT OPTIMUM MOISTURE CONTENT BY AN APPROVED METHOD.
10. THE CONTRACTOR SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODE WITHIN HIS PURVIEW.
11. COMPACTION IN PROPOSED PAVEMENT AREAS SHOULD BE TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS OBTAINED BY A.S.T.M. TEST METHOD D1557–78, METHOD A, AND SHOULD EXTEND TO A MINIMUM DISTANCE OF 2' BEYOND THE OUTSIDE EDGES OF PAVEMENTS OR AS SHOWN ON THE PLANS, WHICHEVER IS GREATER.
12. ALL GRADING SHALL CONFORM WITH THE "STANDARD SPECIFICATIONS" BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
13. ALL CUT SLOPES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.
14. ALL FILL SLOPES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.
15. ALL FILL AREAS SHALL BE CLEARED OF ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FOR A STRUCTURAL FILL AND THE AREA SCARIFIED TO A DEPTH OF 12".
16. ALL SLOPES IN EXCESS OF 3' IN VERTICAL HEIGHT SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION.
17. SURFACE DRAINAGE SHALL BE 1% MINIMUM OR AS OTHERWISE SHOWN ON THE PLAN.
18. ALL CUT AND FILL SLOPES GREATER THAN 3.0' HIGH SHALL BE HYDRAULICALLY PLANTED (HYDROSEEDED) IN A UNIFORM MANNER. TYPE OF SEED SHALL BE APPROVED BY THE CITY ENGINEER.
19. DURING GRADING, THE CONTRACTOR SHALL POTHOLE AS NECESSARY TO IDENTIFY CONCEALED SUBSURFACE OBSTRUCTIONS. ALL ABANDONED SUBSURFACE OBSTRUCTIONS SHALL BE REMOVED. IF THE TERMINUS OF ANY ABANDONED PIPING IS OUTSIDE THE PROJECT LIMITS, THE PIPING SHOULD BE REMOVED WITHIN THE PROJECT AND PROPERLY CAPPED AT THE PROJECT BOUNDARY.
20. CONSTRUCTION STAKING OF THE PROJECT SHALL BE DONE ONLY ONCE BY THE CITY AND ALL RESTAKING OR REMARKING SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ANY GRADE STAKES OR REFERENCE POINTS WHICH MAY BE LOST OR DESTROYED BY THE CONTRACTOR OR OTHERS DURING THE PROGRESS OF HIS WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
21. THE CUT AND FILL QUANTITIES ARE CALCULATED USING A COMPACTION FACTOR OF 1.3. THE ENGINEER MAKES NO WARRANTY EITHER DIRECT OR IMPLIED THAT THIS WILL BE THE ACTUAL COMPACTION FACTOR. IF A DEFICIENCY OR AN EXCESS OF SOIL OCCURS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER, WHO SHALL DETERMINE IF ADJUSTMENTS CAN BE MADE TO IMPROVE THE BALANCE BETWEEN CUT AND FILL.
22. THE CUT AND FILL QUANTITIES SHOWN ON THIS PLAN ARE FOR PERMIT PURPOSES ONLY. THE CONTRACTOR SHALL, AFTER EXAMINING THE PLAN, SOILS REPORT AND THE SITE TERRAIN, PREPARE HIS BID PRICE FOR THE PROJECT BASED ON HIS OWN ANALYSIS OF THE WORK REQUIRED.
23. CONTOURS SHOWN ON THE PLANS HAVE AN ACCURACY OF PLUS OR MINUS ONE–HALF CONTOUR INTERVAL.
24. THE SOILS ENGINEER MUST APPROVE ALL SOIL COMPACTION INCLUDING THE STABILITY OF ALL SLOPES, BOTH THOSE THAT ARE CREATED BY AND THOSE REMAINING AFTER GRADING OPERATIONS.
25. IF THE CONTRACTOR IS IN DOUBT AS TO THE MEANING OF ANY PART OF THE PLAN AND SPECIFICATIONS OR FINDS DISCREPANCIES IN OR OMISSIONS FROM THE DRAWING OR SPECIFICATIONS, HE SHALL SUBMIT A WRITTEN REQUEST FOR AN INTERPRETATION OR A CORRECTION THEREOF, PRIOR TO FILING HIS BID FOR THE PROJECT.
26. ENGINEERED FILL SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.
27. THE GRADING CONTRACTOR IS RESPONSIBLE FOR PROVIDING A BALANCED EARTHWORK PROJECT. IF THE CONTRACTOR DURING THE PROCESS OF CONSTRUCTION, FINDS HE HAS A DEFICIENCY OR EXCESS OF SOIL, HE SHALL PROVIDE IMPORT MATERIAL AS NECESSARY OR MUST DISPOSE OF EXPORT MATERIAL IN A LEGAL MANNER AT NO ADDITIONAL COST TO THE OWNER.
28. SHOULD CULTURAL RESOURCES BE UNCOVERED DURING CONSTRUCTION OR DEVELOPMENT ACTIVITIES ALL WORK IN THE AREA OF DISCOVERY SHALL HALT UNTIL THE FINDS CAN BE EVALUATED BY A QUALIFIED ARCHEOLOGIST AND, IF NECESSARY, MITIGATED PRIOR TO THE RESUMPTION OF DEVELOPMENT.

LEGEND

AC		ASPHALT CONCRETE
BC		BEGIN CURVE
BFP		BACK FLOW PREVENTER
BG,BLDG		BUILDING
BW		BACK OF WALK
BL,BOL	BL	BOLLARD
CB		CATCH BASIN
CE		CONCRETE EDGE
CLF		CHAIN LINK FENCE
CO		CLEANOUT
		CONTROL POINT
	UT	COMMUNICATION LINE
COR		CORNER
C&G		CURB & GUTTER
82.28 EX.EP		EXISTING ELEVATION
66.00 FS		DESIGN ELEVATION
1.20%		DIRECTION OF DRAINAGE
DI		DRAIN INLET
	E	ELECTRICAL LINE
	E	ELECTRICAL POWER BOX
	ERI	ELECTRICAL RISER
EC		END CURVE
EG		EXISTING GRADE
EP		EDGE OF PAVEMENT
EX,EXIST		EXISTING
FF		FINISHED FLOOR
FH		FIRE HYDRANT
FL		FLOWLINE
FS		FINISHED SURFACE
GB		GRADE BREAK
G	G	GAS LINE
	GV	GAS VALVE
INV		INVERT
LS		LANDSCAPE
		LIGHT POLE
		LANDSCAPE DRAIN
	(OE)	OVERHEAD ELECTRICAL
	X	FENCE LINE
	365	EXISTING CONTOUR LINE
	SF	SILT FENCE
	WF	WIND FENCE
OG		ORIGINAL GROUND
		PROPERTY LINE
PCC		POINT OF COMPOUND CURVE
POC		POINT ON CURVE
PRC		POINT OF REVERSE CURVE
	Ø	POWER POLE
		RIGHT–OF–WAY LIMIT
		ROAD CENTERLINE
		SAWCUT
		SIGN WITH POST
S	S	SANITARY SEWER
SD		STORM DRAIN
	D	STORM DRAIN MANHOLE
	>	SWALE
	T	TELEPHONE MANHOLE
	TV	TELEPHONE VAULT
TC		TOP OF CURB
TW		TOP OF WALL
TF		TOP OF FOOTING
TFW		TOP FACE OF WALL
		TRAFFIC SIGNAL
	TSB	TRAFFIC SIGNAL BOX
	TV	TELEPHONE VAULT
		TREE
	UV	UNIDENTIFIED VALVE
	U	UNIDENTIFIED RISER
	UUL	UNIDENTIFIED UTILITY LINE
	W	WATER LINE
WM	WM	WATER METER
WV	WV	WATER VALVE
WD FNC		WOOD FENCE

ARVIN CALIFORNIA
The garden in the Sun
Incorporated Dec. 21, 1960

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR URBAN GREENING GRANT PROJECT
DETAILS, NOTES AND LEGEND

DEWALT Corporation
1930 22nd STREET BAKERSFIELD, CA. 93301
PH. (661) 323–4600 FAX (661) 323–4674
ENGINEERING • PLANNING • SURVEYING •
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

REVISIONS	DATE

DRAWN BY:	A. Vargas
CHECKED BY:	T.Wood
APPROVED BY:	T. Wood
DATE:	7/13/2020
JOB NO:	18–304
ACAD FILE:	18–304 C1–TS

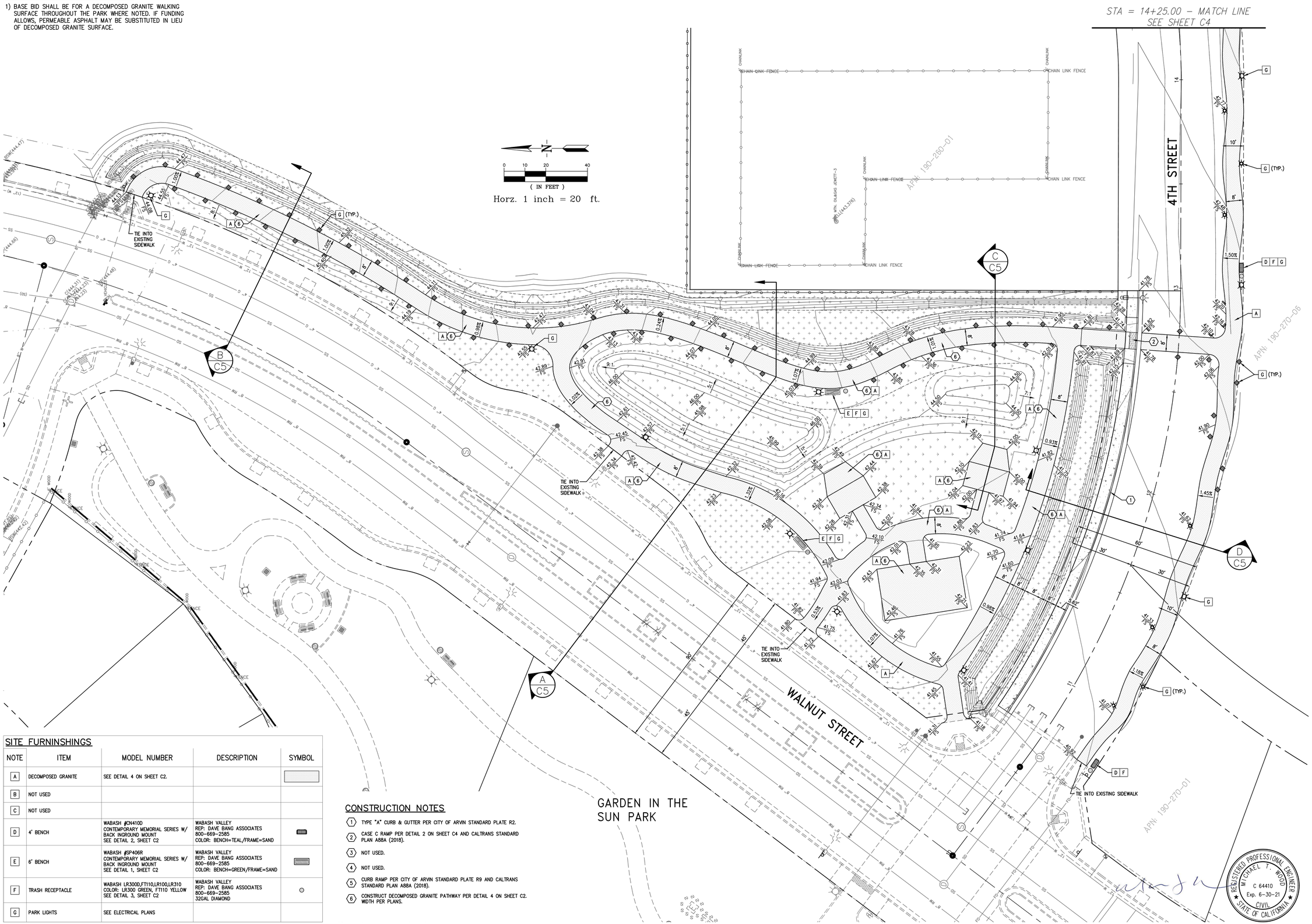
REGISTERED PROFESSIONAL ENGINEER
MICHAEL T. WOOD
C 64410
Exp. 6–30–21
CIVIL
STATE OF CALIFORNIA

SHEET
C2
OF: 20

PLOT DATE: July 13, 2020 3:03:20 PM

ADDITIVE ALTERNATE NOTES:

1) BASE BID SHALL BE FOR A DECOMPOSED GRANITE WALKING SURFACE THROUGHOUT THE PARK WHERE NOTED. IF FUNDING ALLOWS, PERMEABLE ASPHALT MAY BE SUBSTITUTED IN LIEU OF DECOMPOSED GRANITE SURFACE.



SITE FURNINSHINGS

NOTE	ITEM	MODEL NUMBER	DESCRIPTION	SYMBOL
A	DECOMPOSED GRANITE	SEE DETAIL 4 ON SHEET C2.		
B	NOT USED			
C	NOT USED			
D	4' BENCH	WABASH #CN410D CONTEMPORARY MEMORIAL SERIES W/ BACK INGROUND MOUNT SEE DETAIL 2, SHEET C2	WABASH VALLEY REP: DAVE BANG ASSOCIATES 800-669-2585 COLOR: BENCH=TEAL/FRAME=SAND	
E	6' BENCH	WABASH #SP406R CONTEMPORARY MEMORIAL SERIES W/ BACK INGROUND MOUNT SEE DETAIL 1, SHEET C2	WABASH VALLEY REP: DAVE BANG ASSOCIATES 800-669-2585 COLOR: BENCH=GREEN/FRAME=SAND	
F	TRASH RECEPTACLE	WABASH LR300D,FT110,LR100,LR310 COLOR: LR300 GREEN, FT110 YELLOW SEE DETAIL 3, SHEET C2	WABASH VALLEY REP: DAVE BANG ASSOCIATES 800-669-2585 32GAL DIAMOND	
G	PARK LIGHTS	SEE ELECTRICAL PLANS		

CONSTRUCTION NOTES

1. TYPE "A" CURB & GUTTER PER CITY OF ARVIN STANDARD PLATE R2.
2. CASE C RAMP PER DETAIL 2 ON SHEET C4 AND CALTRANS STANDARD PLAN A88A (2018).
3. NOT USED.
4. NOT USED.
5. CURB RAMP PER CITY OF ARVIN STANDARD PLATE R9 AND CALTRANS STANDARD PLAN A88A (2018).
6. CONSTRUCT DECOMPOSED GRANITE PATHWAY PER DETAIL 4 ON SHEET C2. WIDTH PER PLANS.

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CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR URBAN GREENING GRANT PROJECT
GRADING PLAN

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ENGINEERING • PLANNING • SURVEYING •
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

DATE	REVISIONS

DRAWN BY:	A. Vargas
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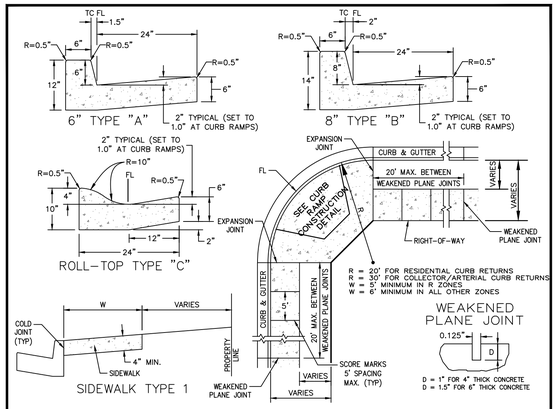
APPROVED BY:	T. Wood
DATE:	7/10/2020
JOB NO:	18-304
ACAD FILE:	18-304 C3_C4- GP

SHEET
C3
OF: 20

PLOT DATE: July 10, 2020 9:37:27 AM

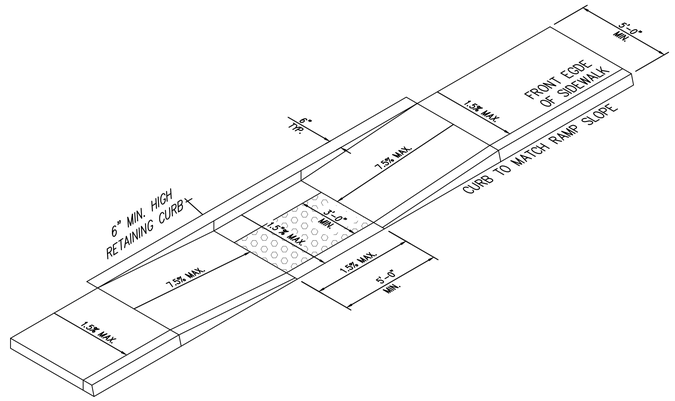


GENERAL NOTES:

1. ALL CONCRETE SHALL BE 6-SACK MIX, TYPE II-V. THE SURFACE SHALL BE FINISHED TO FOLLOW THE CROSS SECTION WITH A FLOAT, TROWELED SMOOTH, AND FINISHED WITH A BROOM. APPLY CURING AGENT PER SEC. 90-7.01B OF THE STANDARD SPECIFICATIONS.
2. SUBGRADE PREPARATION FOR CURB AND GUTTER SHALL BE CONSTRUCTED TRUE TO GRADE AND CROSS SECTION, WITH COMPACTION OF 95% TO A DEPTH OF 12".
3. SUBGRADE PREPARATION FOR SIDEWALK SHALL BE CONSTRUCTED TRUE TO GRADE AND CROSS SECTION, WITH COMPACTION OF 90% TO A DEPTH OF 12".
4. EXPANSION JOINTS SHALL BE EITHER (A) ½" TO ¾" PREMOLDED EXPANSION JOINT FILLER PER CALTRANS STANDARD SPECIFICATIONS 73-1.03E, OR (B) 2" DEEP SCORE JOINT (WEAKENED PLANE, EXTRUSION MACHINE ONLY). EXPANSION JOINTS SHALL BE PLACED AT ALL STRUCTURES, END OF CURB RETURNS, AND OPPOSITE EXPANSION JOINTS IN EXISTING CURB.
   NOTE: MAXIMUM SPACING = 50 FT.
5. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 20 FOOT INTERVALS OR AS DIRECTED BY THE ENGINEER.
6. SCORE SIDEWALK IN RECTANGLES OF NOT LESS THAN 12 SQUARE FEET NOR MORE THAN 20 SQUARE FEET. SIDEWALK SCORE MARKS MINIMUM DEPTH OF 0.125".
7. ROLL-TOP CURB & GUTTER ONLY ALLOWED IN INDUSTRIAL ZONES WITH APPROVAL OF THE CITY ENGINEER AND PLANNING DEPARTMENT.
8. SIDEWALK TO CURB AND GUTTER NOT TO BE POURED AS MONOLITHIC.
9. PROPERTY AT INTERSECTIONS SHALL BE A 20 FOOT BY 20 FOOT CUT OFF FOR WHEELCHAIR RAMPS.
10. MINIMUM GRADE FOR CURB AND GUTTER FLOWLINE SHALL BE 0.25% . EXCEPTIONS TO THE MINIMUM GRADE SHALL BE APPROVED BY THE CITY ENGINEER, AND WILL REQUIRE FLOW TESTING DURING CONSTRUCTION, BUT PRIOR TO START OF AC PAVING OPERATIONS..

CITY OF ARVIN		
CURB, GUTTER AND SIDEWALK		PLATE R2
REVISED: OCTOBER 2014	BY: AV	SHT. 1 OF 1

1 CITY OF ARVIN STANDARD PLATE R2
SCALE: N.T.S.



2 CURB RAMP DETAIL - CASE C
SCALE: N.T.S.

CONSTRUCTION NOTES

1. TYPE "A" CURB & GUTTER PER CITY OF ARVIN STANDARD PLATE R2.
2. CASE C RAMP PER DETAIL 2 ON SHEET C4 AND CALTRANS STANDARD PLAN A88A (2018).
3. NOT USED.
4. NOT USED.
5. CURB RAMP PER CITY OF ARVIN STANDARD PLATE R9 AND CALTRANS STANDARD PLAN A88A (2018).
6. CONSTRUCT DECOMPOSED GRANITE PATHWAY PER DETAIL 4 ON SHEET C2. WIDTH PER PLANS.

SITE FURNINSHINGS

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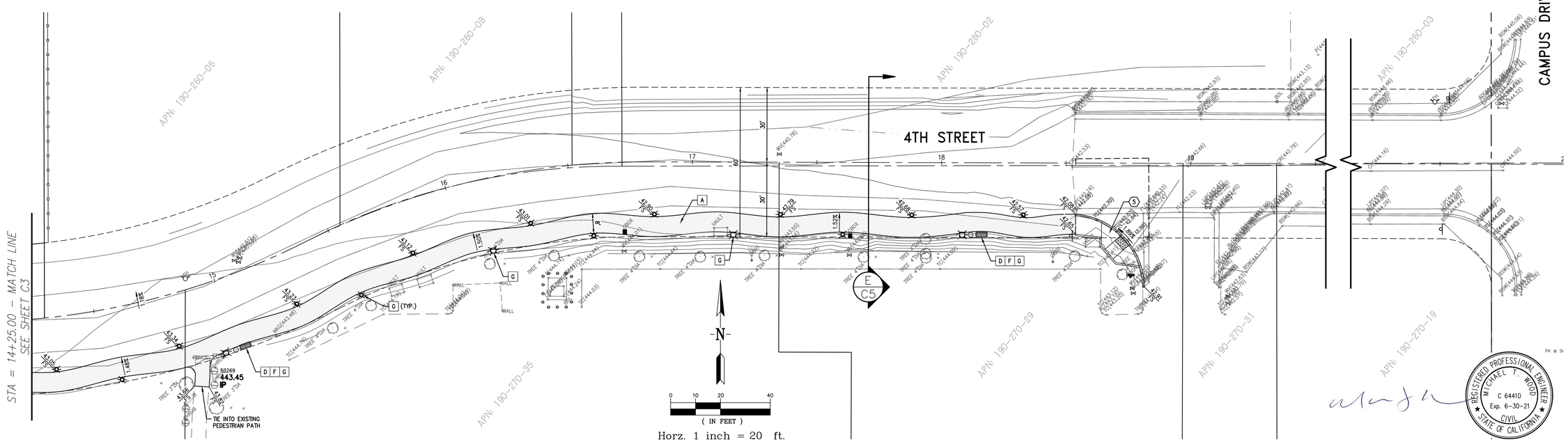
G	PARK LIGHTS	SEE ELECTRICAL PLANS		



REGISTERED PROFESSIONAL ENGINEER
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CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING GRANT PROJECT
GRADING PLAN

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DATE	REVISIONS

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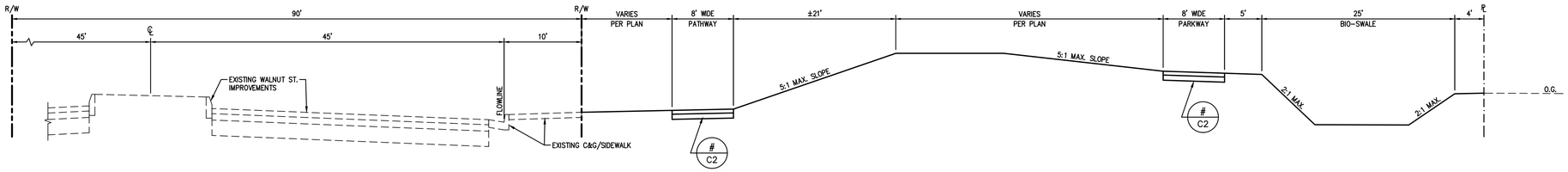
APPROVED BY: T. Wood
DATE: 7/10/2020
JOB NO: 18-304
ACAD FILE: 18-304 C3_C4- GP

SHEET C4 OF: 20

PLOT DATE: July 10, 2020 9:37:52 AM



A SECTION DETAIL A
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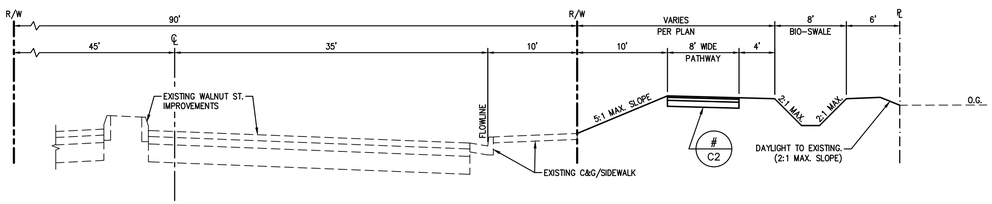

B SECTION DETAIL B
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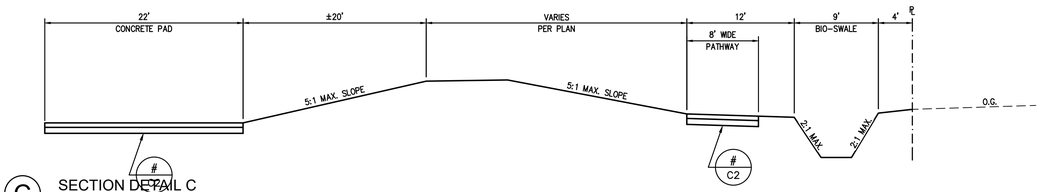

C SECTION DETAIL C
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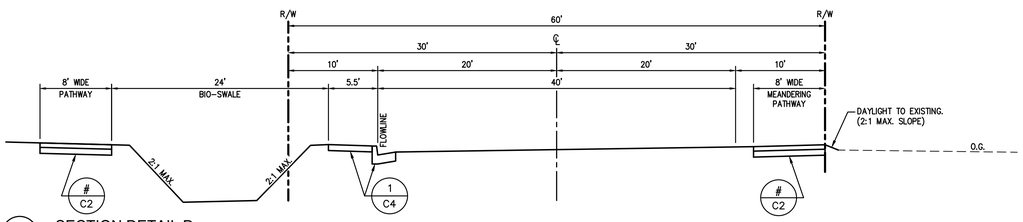

D SECTION DETAIL D
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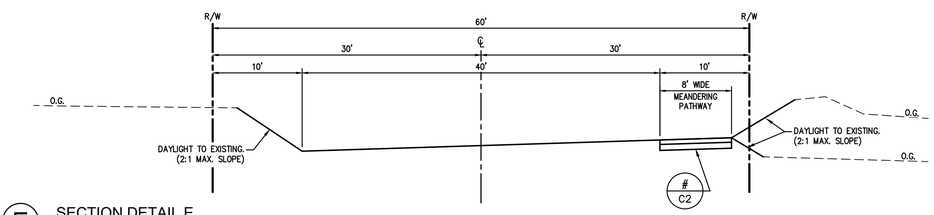

E SECTION DETAIL E
SCALE: N.T.S.

REGISTERED PROFESSIONAL ENGINEER
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CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING GRANT PROJECT
GRADING SECTIONS

DEWALT Corporation
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LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

DATE	REVISIONS

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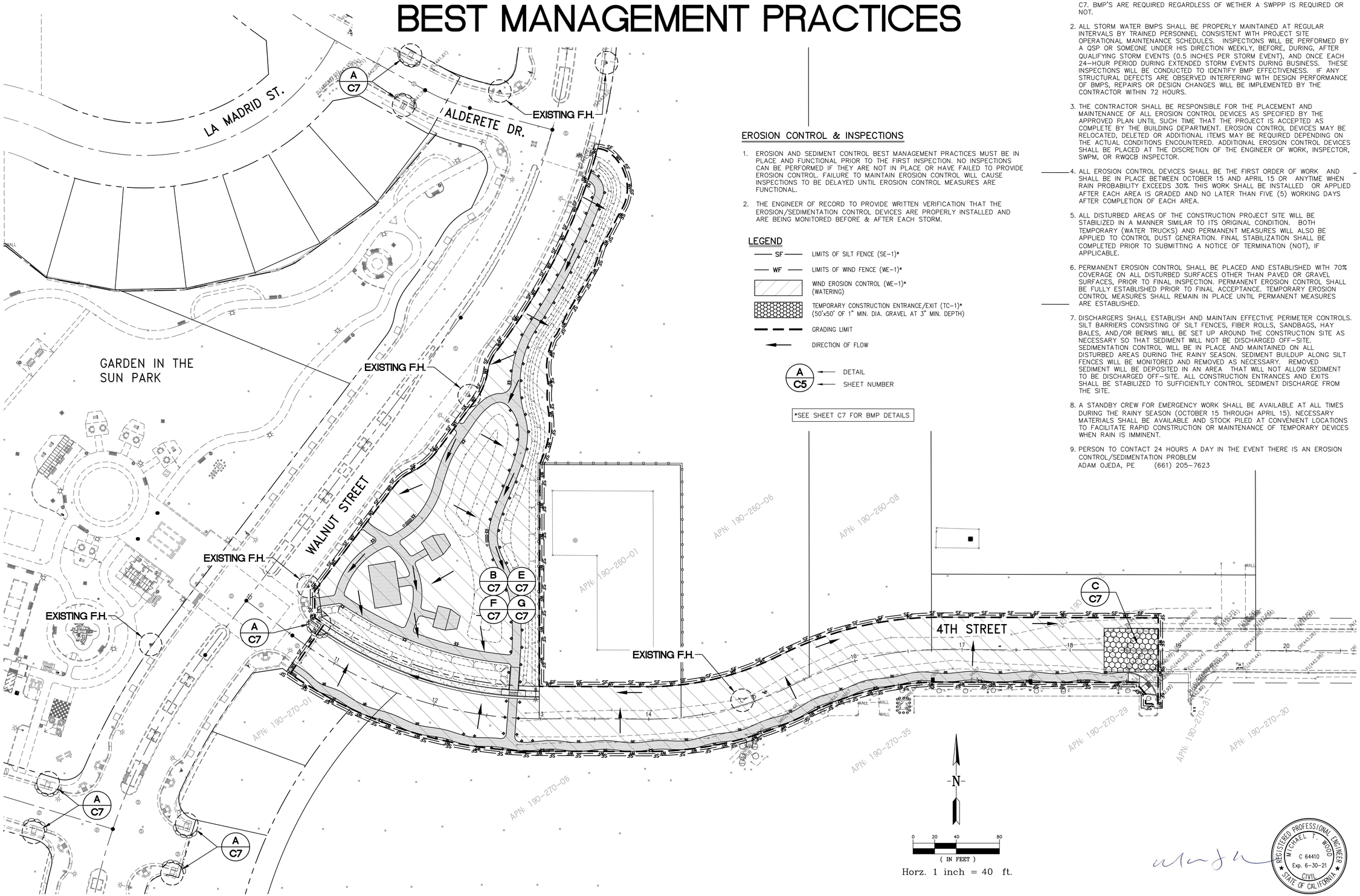
CHECKED BY: T.Wood
APPROVED BY: T. Wood
DATE: 7/10/2020
JOB NO: 18-304
ACAD FILE: 18-304 C3_C4- GP

SHEET
C5
OF: 20

PLOT DATE: July 10, 2020 9:38:01 AM

CITY OF ARVIN STATE OF CALIFORNIA

EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES



EROSION CONTROL & INSPECTIONS

1. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MUST BE IN PLACE AND FUNCTIONAL PRIOR TO THE FIRST INSPECTION. NO INSPECTIONS CAN BE PERFORMED IF THEY ARE NOT IN PLACE OR HAVE FAILED TO PROVIDE EROSION CONTROL. FAILURE TO MAINTAIN EROSION CONTROL WILL CAUSE INSPECTIONS TO BE DELAYED UNTIL EROSION CONTROL MEASURES ARE FUNCTIONAL.
2. THE ENGINEER OF RECORD TO PROVIDE WRITTEN VERIFICATION THAT THE EROSION/SEDIMENTATION CONTROL DEVICES ARE PROPERLY INSTALLED AND ARE BEING MONITORED BEFORE & AFTER EACH STORM.

LEGEND

- SF — LIMITS OF SILT FENCE (SE-1)*
- WF — LIMITS OF WIND FENCE (WE-1)*
- WIND EROSION CONTROL (WE-1)* (WATERING)
- TEMPORARY CONSTRUCTION ENTRANCE/EXIT (TC-1)* (50'x50' OF 1" MIN. DIA. GRAVEL AT 3" MIN. DEPTH)
- GRADING LIMIT
- DIRECTION OF FLOW
- A / C5 — DETAIL / SHEET NUMBER

*SEE SHEET C7 FOR BMP DETAILS

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROLS WILL BE IMPLEMENTED ALONG THE BOUNDARIES OF THE CONSTRUCTION AREAS WITHIN THE PROJECT SITE TO MINIMIZE THE AMOUNT OF SEDIMENT TRANSPORTED OFF-SITE BY STORM WATER RUNOFF. THESE CONTROL MEASURES WILL BE PUT IN PLACE AS NEEDED AT THE ONSET OF CONSTRUCTION ACTIVITIES AND WILL REMAIN IN PLACE (AS NEEDED) DURING CONSTRUCTION AND THROUGH PERIODS OF INACTIVITY. DISCHARGERS SHALL PROVIDE EFFECTIVE SOIL STABILIZTION FOR INACTIVE AREAS. DESCRIPTIONS AND DIAGRAMS OF THE BMPS ARE INCLUDED ON SHEET C7. BMP'S ARE REQUIRED REGARDLESS OF WETHER A SWPPP IS REQUIRED OR NOT.
2. ALL STORM WATER BMPS SHALL BE PROPERLY MAINTAINED AT REGULAR INTERVALS BY TRAINED PERSONNEL CONSISTENT WITH PROJECT SITE OPERATIONAL MAINTENANCE SCHEDULES. INSPECTIONS WILL BE PERFORMED BY A QSP OR SOMEONE UNDER HIS DIRECTION WEEKLY, BEFORE, DURING, AFTER QUALIFYING STORM EVENTS (0.5 INCHES PER STORM EVENT), AND ONCE EACH 24-HOUR PERIOD DURING EXTENDED STORM EVENTS DURING BUSINESS. THESE INSPECTIONS WILL BE CONDUCTED TO IDENTIFY BMP EFFECTIVENESS. IF ANY STRUCTURAL DEFECTS ARE OBSERVED INTERFERING WITH DESIGN PERFORMANCE OF BMPS, REPAIRS OR DESIGN CHANGES WILL BE IMPLEMENTED BY THE CONTRACTOR WITHIN 72 HOURS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT AND MAINTENANCE OF ALL EROSION CONTROL DEVICES AS SPECIFIED BY THE APPROVED PLAN UNTIL SUCH TIME THAT THE PROJECT IS ACCEPTED AS COMPLETE BY THE BUILDING DEPARTMENT. EROSION CONTROL DEVICES MAY BE RELOCATED, DELETED OR ADDITIONAL ITEMS MAY BE REQUIRED DEPENDING ON THE ACTUAL CONDITIONS ENCOUNTERED. ADDITIONAL EROSION CONTROL DEVICES SHALL BE PLACED AT THE DISCRETION OF THE ENGINEER OF WORK, INSPECTOR, SWPM, OR RWQCB INSPECTOR.
4. ALL EROSION CONTROL DEVICES SHALL BE THE FIRST ORDER OF WORK AND SHALL BE IN PLACE BETWEEN OCTOBER 15 AND APRIL 15 OR ANYTIME WHEN RAIN PROBABILITY EXCEEDS 30%. THIS WORK SHALL BE INSTALLED OR APPLIED AFTER EACH AREA IS GRADED AND NO LATER THAN FIVE (5) WORKING DAYS AFTER COMPLETION OF EACH AREA.
5. ALL DISTURBED AREAS OF THE CONSTRUCTION PROJECT SITE WILL BE STABILIZED IN A MANNER SIMILAR TO ITS ORIGINAL CONDITION. BOTH TEMPORARY (WATER TRUCKS) AND PERMANENT MEASURES WILL ALSO BE APPLIED TO CONTROL DUST GENERATION. FINAL STABILIZATION SHALL BE COMPLETED PRIOR TO SUBMITTING A NOTICE OF TERMINATION (NOT), IF APPLICABLE.
6. PERMANENT EROSION CONTROL SHALL BE PLACED AND ESTABLISHED WITH 70% COVERAGE ON ALL DISTURBED SURFACES OTHER THAN PAVED OR GRAVEL SURFACES, PRIOR TO FINAL INSPECTION. PERMANENT EROSION CONTROL SHALL BE FULLY ESTABLISHED PRIOR TO FINAL ACCEPTANCE. TEMPORARY EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT MEASURES ARE ESTABLISHED.
7. DISCHARGERS SHALL ESTABLISH AND MAINTAIN EFFECTIVE PERIMETER CONTROLS. SILT BARRIERS CONSISTING OF SILT FENCES, FIBER ROLLS, SANDBAGS, HAY BALES, AND/OR BERMS WILL BE SET UP AROUND THE CONSTRUCTION SITE AS NECESSARY SO THAT SEDIMENT WILL NOT BE DISCHARGED OFF-SITE. SEDIMENTATION CONTROL WILL BE IN PLACE AND MAINTAINED ON ALL DISTURBED AREAS DURING THE RAINY SEASON. SEDIMENT BUILDUP ALONG SILT FENCES WILL BE MONITORED AND REMOVED AS NECESSARY. REMOVED SEDIMENT WILL BE DEPOSITED IN AN AREA THAT WILL NOT ALLOW SEDIMENT TO BE DISCHARGED OFF-SITE. ALL CONSTRUCTION ENTRANCES AND EXITS SHALL BE STABILIZED TO SUFFICIENTLY CONTROL SEDIMENT DISCHARGE FROM THE SITE.
8. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE AND STOCK PILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OR MAINTENANCE OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
9. PERSON TO CONTACT 24 HOURS A DAY IN THE EVENT THERE IS AN EROSION CONTROL/SEDIMENTATION PROBLEM
   ADAM OJEDA, PE (661) 205-7623

REGISTERED PROFESSIONAL ENGINEER
MICHAEL T. WOOD
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Exp. 6-30-21
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CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING GRANT PROJECT
EROSION AND SEDIMENT CONTROL

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DATE	REVISIONS

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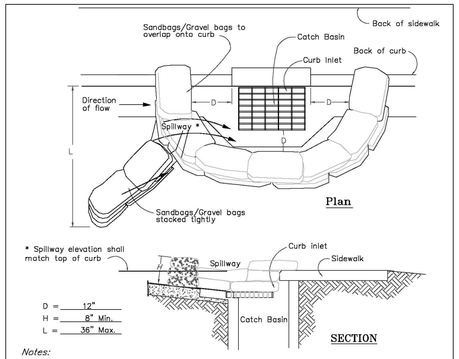
APPROVED BY:	T. Wood
DATE:	6/11/2020
JOB NO:	18-304
ACAD FILE:	18-304 C6 - ESCP

SHEET C6 OF: 20

PLOT DATE: July 10, 2020 9:38:13 AM

CITY OF ARVIN STATE OF CALIFORNIA

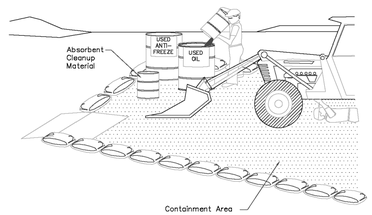
EROSION AND SEDIMENT CONTROL BEST MANAGMENT PRACTICES



Notes:

1. *Catch Basin/Inlet protection shall be installed wherever there is a potential of stormwater or non-stormwater being discharged into it.*
2. *Inlet protection is required along with other pollution prevention measures such as; erosion control, soil stabilization, and measures to prevent tracking onto paved surfaces.*
3. *Modify inlet protection as needed to avoid creating traffic hazards.*
4. *Include inlet protection measures at hillside v-ditches and misc. drainage swales.*
5. *Inlet protection shall be inspected and accumulated sediments removed. Sediment shall be disposed of properly and in a manner that assures that the sediment does not enter the storm drain system*
6. *Damaged bags shall be replaced immediately.*
7. *Additional sandbag sediment traps shall be placed at intervals as indicated on site plan.*

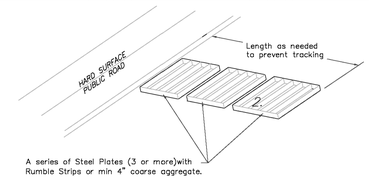
(A) CATCH BASIN/INLET PROTECTION



Notes:

1. *Leaking vehicles and equipment shall not be allowed on-site. Equipment and vehicles shall be inspected frequently for leaks and shall be repaired immediately. Clean up spills and leaks promptly with absorbent materials; do not flush with water.*
2. *Vehicles and equipment shall be maintained, and repaired on-site only in designated areas. Prevent run-on and run-off from designated areas. Containment devices shall be provided and areas shall be covered if necessary.*
3. *Designate on-site vehicle and equipment maintenance areas, away from storm drain inlets and watercourses.*
4. *Always use secondary containment, such as a drain pan or drop cloth, to catch spills and leaks when removing or changing fluids.*
5. *Legally dispose of used oils, fluids, and lubricants.*
6. *Provide spill containment dikes or secondary containment around stored oil, fuel, and chemical drums.*
7. *Maintain an adequate supply of absorbent spill cleanup materials in designated area.*

(B) EQUIPMENT MAINTENANCE AREAS

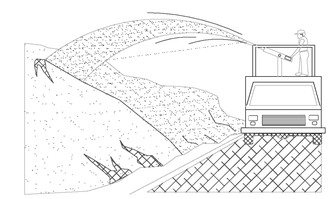


Notes:

1. *Sediments and other materials shall not be tracked from the site by vehicle traffic. The construction entrance roadways shall be stabilized so as to prevent sediments from being deposited into the public roads. Depositions must be swept up immediately and may not be washed down by rain or other means into the storm drain system.*
2. *Stabilized construction entrance shall be:*
   a. *Located at any point where traffic will be entering or leaving a construction site to or from a public right of way, street, alley, and sidewalk or parking area.*
   b. *A series of steel plates with "rumble strips", and/or min 4" coarse aggregate with length, width & thickness as needed to adequatly prevent any tracking onto paved surfaces.*
3. *Adding a wash rack with a sediment trap large enough to collect all wash water can greatly improve efficiency.*
4. *All vehicles accessing the construction site shall utilize the stabilized construction entrance sites.*

   1. *Remove all sediment deposited on paved roadways immediately.*
   2. *Sweep paved areas that receive construction traffic whenever sediment becomes visible.*
   3. *Pavement washing with water is prohibited if it results in a discharge to the storm drain system.*

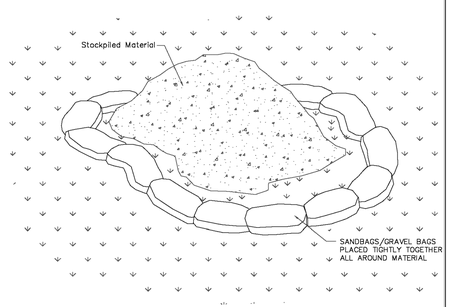
(C) STABLIZED CONSTRUCTION ENTRANCE



Notes:

1. *Soil/Slope stabilization practices shall be designed to preserve existing vegetation where feasible and to revegetate open areas as soon as feasible after grading. These control practices shall include temporary seeding, permanent seeding, mulching, sod stabilization, vegetative buffer strips, protection of trees, or other soil stabilization practices.*
2. *Soil stabilization shall be implemented on all inactive disturbed areas from November 1 thru April 15 and on all disturbed areas during a rain event or potential rain.*
3. *Stabilization practices shall control/prevent erosion from the forces of wind and water.*
4. *Stabilization practices shall be implemented in conjunction with sediment trapping/filtering practices and practices to reduce the tracking of sediment onto paved roads.*
5. *When using straw mulching, the minimum application shall be 2 tons/acre. Mulch must be anchored immediately to minimize loss by wind or water.*
6. *When using hydroseeding/mulching, the minimum application of wood fiber shall be 1,500 lbs/acre, that does not contain more than 50 percent newsprint.*
7. *For seeding recommendations, contact: USDA, Natural Resources Conservation Service at 5000 California Avenue, Bakersfield, CA 93309-0725. Phone: (661) 336-0967.*

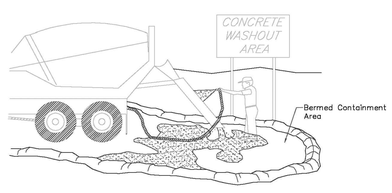
(D) EROSION CONTROL



Notes:

1. *Dirt and other construction related materials placed in the street or on other impervious surfaces must be contained with sandbags or other measures to prevent transport to the stormdrain system.*
2. *Any construction material stored or stockpiled on-site shall be protected from being transported by the force of wind or water.*

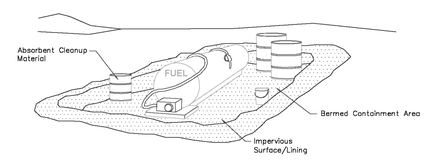
(E) MATERIAL STORAGE



Notes:

1. *Excess and waste concrete shall not be washed into the street or into a drainage system.*
2. *For washout of concrete and mortar products, a designated containment facility of sufficient capacity to retain liquid and solid waste shall be provided on site.*
3. *Slurry from concrete and asphalt saw cutting shall be vacuumed or contained, dried, picked up and disposed of properly.*

(F) CONCRETE WASTE MANAGEMENT

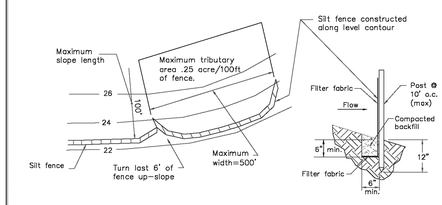


Notes:

1. *Fueling shall be performed in a designated area, away from drainage courses.*
2. *Absorbent cleanup material shall be on site and used immediately in the event of a spill.*

(G) VEHICLE/ EQUIPMENT FUELING

Silt Fence



Notes:

1. *Construct the silt fence along a level contour.*
2. *Silt fences shall remain in place until the disturbed area is permanently stabilized.*
3. *Provide sufficient room for runoff to pond behind the fence and allow sediment removal equipment to pass between the silt fence and toe of slope or other obstructions. About 1200 sq. ft. of ponding area shall be provided for every acre draining to the fence.*
4. *Turn the ends of the filter fence uphill to prevent stormwater from flowing around the fence.*
5. *Leave an undisturbed or stabilized area immediately downslope from the fence.*
6. *Do not place in live stream or intermittently flowing channels.*
7. *When standard filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy-duty wire staples at least 1 inch long, tie wires or hog rings.*

(H) SILT FENCE

BEST MANAGEMENT PRACTICES (BMP's)

GENERAL NOTES

1. BEST MANAGEMENT PRACTICES (BMP's) CONTAINED HEREIN REFLECT MINIMUM REQUIREMENTS. ALTERNATE METHODS PROVIDING EQUAL OR GREATER PROTECTION MAY BE UTILIZED. FOR ADDITIONAL BMP'S REFER TO CALIFORNIA STORMWATER BMP HANDBOOKS, AVAILABLE AT WWW.CABMHANDBOOKS.COM
2. ALL CONSTRUCTION ACTIVITY SHALL BE PERFORMED IN ACCORDANCE WITH A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DEVELOPED AND IMPLEMENTED, IF REQUIRED, WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND THE STATE'S GENERAL PERMIT. BMP'S SHALL BE REQUIRED EVEN IF A SWPPP IS NOT REQUIRED.
3. NON-STORMWATER DISCHARGES ARE PROHIBITED FROM ENTERING ANY STORM DRAIN SYSTEM AND/OR STREET.
4. THE SWPPP SHALL:
   a. IDENTIFY POTENTIAL POLLUTANT SOURCES AND INCLUDE THE DESIGN AND PLACEMENT OF BMP's TO EFFECTIVELY PROHIBIT THE ENTRY OF POLLUTANTS FROM THE CONSTRUCTION SITE INTO AND ONTO THE STREET AND STORM DRAIN SYSTEM DURING CONSTRUCTION.
   b. BE KEPT ON SITE AND AMENDED TO REFLECT CHANGING CONDITIONS THROUGHOUT THE COURSE OF CONSTRUCTION.
   c. BE KEPT UP TO DATE. ANY ADDITIONAL UPDATES REQUESTED BY AGENCY REPRESENTATIVE ARE TO BE MADE IMMEDIATELY.
5. POLLUTANTS SHALL BE REMOVED FROM STORMWATER DISCHARGES TO THE MAXIMUM EXTENT PRACTICABLE (MEP) THROUGH DESIGN & IMPLEMENTATION OF THE SWPPP.
6. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOV. 1 TO APR. 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR DAMAGED EROSION CONTROL MEASURES OR SEDIMENT CONTROL MEASURES WHEN RAIN IS IMMINENT.
7. PORTABLE SANITARY FACILITIES SHALL BE LOCATED ON RELATIVELY LEVEL GROUND AWAY FROM TRAFFIC AREAS, DRAINAGE COURSES, AND STORM DRAIN INLETS.
8. EMPLOYEES, SUBCONTRACTORS AND SUPPLIERS SHALL BE EDUCATED ON ALL BMP's INCLUDING CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURES.
9. SEDIMENT CONTROL PRACTICES SHALL EFFECTIVELY PREVENT A NET INCREASE OF SEDIMENT LOAD IN STORMWATER DISCHARGE.
10. INDIVIDUAL HOME BUILDERS SHALL USE THE DESIGNATED CONCRETE CLEAN OUT AREAS AS SHOWN ON PLAN.
11. INDIVIDUAL HOME BUILDERS SHALL USE STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON DETAIL "C" OR SHALL PROVIDE STREET SWEEPING SERVICE AS NECESSARY TO KEEP PAVED AREAS FREE OF VEHICLE TRACK OUT MATERIALS.

REGISTERED PROFESSIONAL ENGINEER MICHAEL T. WOOD C 64410 Exp. 6-30-21 CIVIL STATE OF CALIFORNIA

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR URBAN GREENING GRANT PROJECT
BEST MANAGMENT PRACTICES

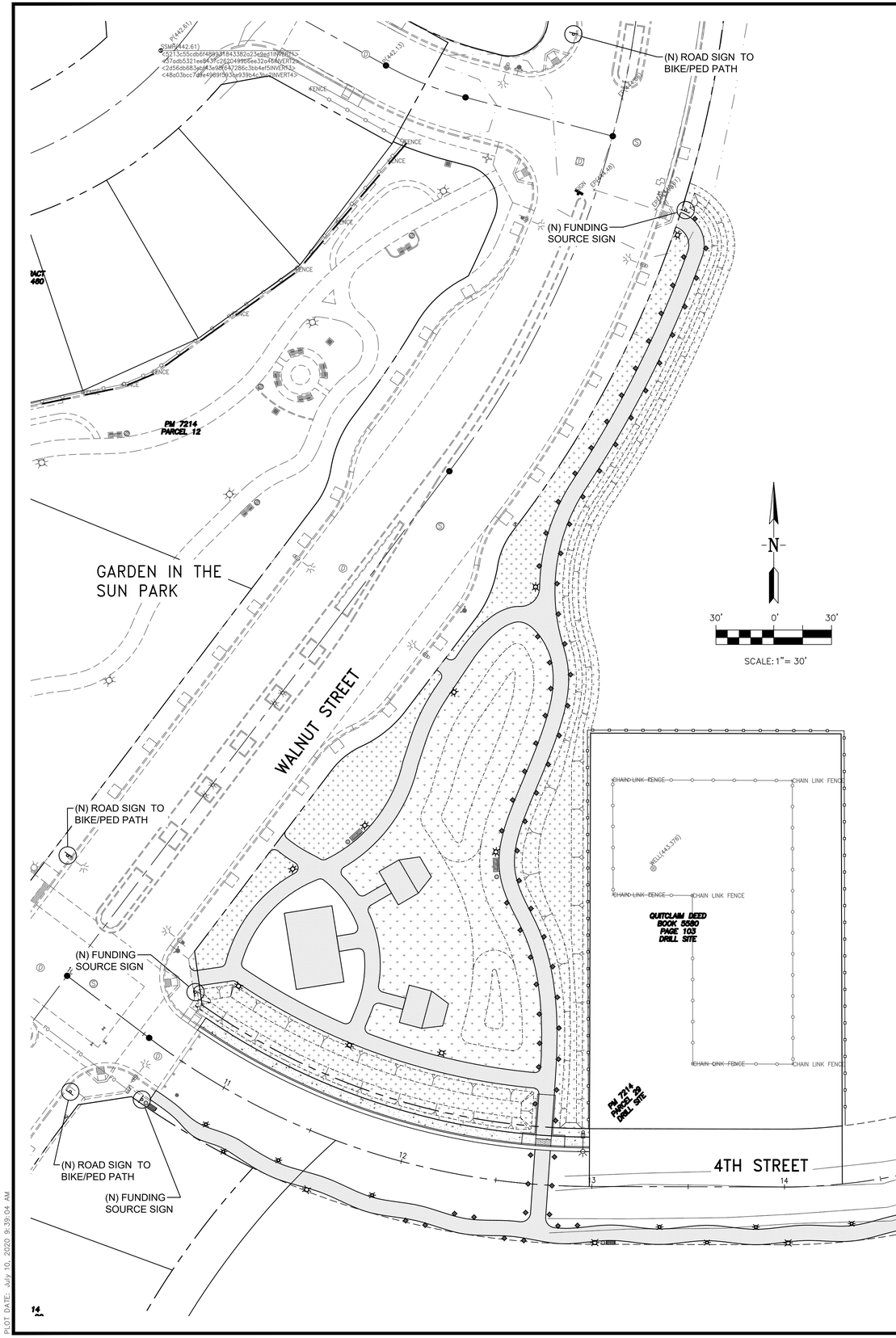
DEWALT Corporation
1930 22nd STREET BAKERSFIELD, CA. 93301
PH: (661) 323-4600 FAX (661) 322-4674
ENGINEERING • PLANNING • SURVEYING •
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

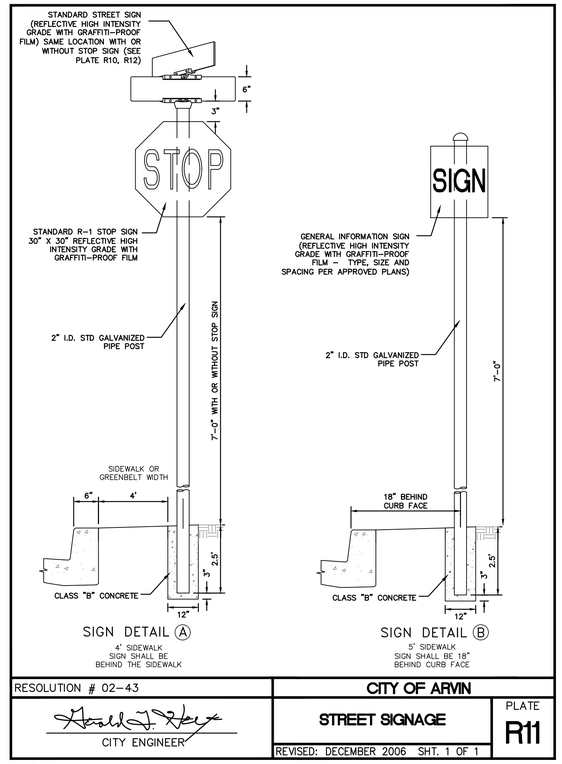
REVISIONS	DATE

DRAWN BY:	A. Vargas
CHECKED BY:	T.Wood
APPROVED BY:	T. Wood
DATE:	6/11/2020
JOB NO:	18-304
ACAD FILE:	18-304 C7 – BMP

SHEET C7 OF: 20

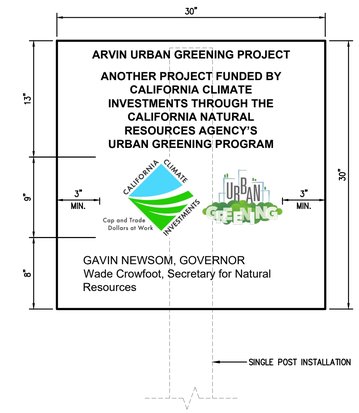
PLOT DATE: July 10, 2020 9:38:20 AM





RESOLUTION # 02-43	CITY OF ARVIN	
CITY ENGINEER	STREET SIGNAGE	PLATE R11
	REVISED: DECEMBER 2006 SHT. 1 OF 1	

1 CITY OF ARVIN STANDARD PLATE R11
SCALE: N.T.S.



GENERAL NOTES:

1. ALL MATERIALS USED SHALL BE DURABLE AND RESISTANT TO THE ELEMENTS AND GRAFFITI. THE CALIFORNIA DEPARTMENT OF PARKS AND RECREATION AND CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARDS CAN BE USED AS A GUIDE FOR GAUGE OF METAL, QUALITY OF PAINTS USED, MOUNTING SPECIFICATIONS, ETC.
2. REFERENCE "URBAN GREENING PROGRAM GUIDELINES" FOR ADDITIONAL SPECIFICATIONS.
3. SIGN WILL BE INSTALLED FOR A PERIOD OF 4 YEARS. ALL MATERIAL SHALL BE APPROPRIATELY DURABLE TO WITHSTAND THIS AMOUNT OF TIME ON DISPLAY.
4. SIGN SHALL BE PLACED WHERE DIRECTED BY CITY ENGINEER.
5. SUBMIT PROOF OF SIGN TO CITY ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
6. LOGO; ALSO KNOWN AS THE "UNIVERSAL LOGO" WILL BE PROVIDED IN DIGITAL FORMAT BY CITY ENGINEER. SIGN MANUFACTURER SHALL ASSURE THE QUALITY OF THE SIGN IS OF HIGH QUALITY OR SHALL FIND A BETTER RESOLUTION IMAGE OF THE LOGO ELSEWHERE.
7. SIZES AND STYLES OF FONTS ARE DIAGRAMMATIC. SIGN MANUFACTURER SHALL MODIFY THE FONTS AS NECESSARY FOR CLARITY AND APPROPRIATE USE OF SIGN SPACE.

2 URBAN GREENING PROGRAM SIGNAGE DETAIL
SCALE: N.T.S.

ARVIN URBAN GREENING PROJECT

ANOTHER PROJECT FUNDED BY CALIFORNIA CLIMATE INVESTMENTS THROUGH THE CALIFORNIA NATURAL RESOURCES AGENCY'S URBAN GREENING PROGRAM

CALIFORNIA CLIMATE INVESTMENTS — Cap and Trade Dollars at Work — URBAN GREENING

GAVIN NEWSOM, GOVERNOR
Wade Crowfoot, Secretary for Natural Resources

FUNDING SOURCE ROAD SIGN

PATH TO BIKE / PED ROAD SIGN
(SUBJECT TO CHANGE PER CITY ENGINEER DISCRETION)

REGISTERED PROFESSIONAL ENGINEER — MICHAEL T. WOOD — C 64410 — Exp. 6-30-21 — CIVIL — STATE OF CALIFORNIA

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING GRANT PROJECT
SIGN LOCATION PLAN

DEWALT Corporation
1930 22nd STREET BAKERSFIELD, CA. 93301
PH: (661) 323-4600 FAX (661) 323-4674
ENGINEERING • PLANNING • SURVEYING •
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

REVISIONS	
DATE	

DRAWN BY:	A. Vargas
CHECKED BY:	T. Wood
APPROVED BY:	T. Wood
DATE:	7/10/2020
JOB NO:	18-304
ACAD FILE:	18-304 C3_C4- GP

SHEET C8 OF: 20

PLOT DATE: July 10, 2020 9:39:04 AM

EXISTING PANEL "A"

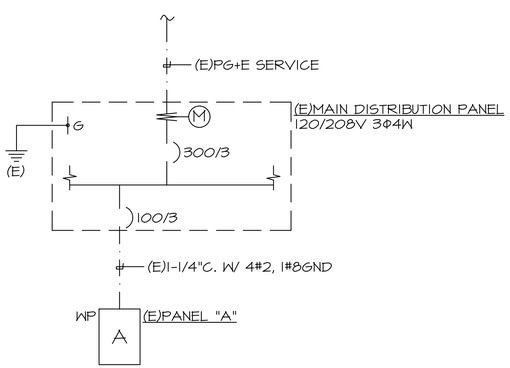
SERVICE: 120/208V 3Φ 4W | MAIN BKR.: 100A | BUS: 100A | LOC.: SEE PLAN

FURNISHED W/ MAIN DISTRIBUTION PANEL | MTG.: SURFACE

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
NEW PARK LIGHTING	157						2	20	1	2	20	2		31		189			NEW PARK LIGHTING
—		157					—	—	3	4	—						189		—
STAGE RECEPS			1000	2			1	20	5	6	20	2		38				467	NEW PARK LIGHTING
PATIO RECEPS	500			1					7	8	—					467			—
		500		1					9	10	20	2		5			175		PARK LIGHTS
			500	1					11	12	—							175	—
	500			1					13	14	20	2		4		140			PARK LIGHTS
		500		1					15	16	—						140		—
↓			500	1					17	18	20	2		4				300	PARKING LOT LIGHTS
PARKING LOT LT RECEP	1000			2					19	20	—					300			—
STREET LIGHT RECEP		1500		3					21	22	20	2		5			75		BOLLARDS & LV LIGHTS
			500	2					23	24	—							75	—
	500			2					25	26	20	2		5		375			STREET LIGHTS
		1000		2					27	28	—						375		—
			1500	3					29	30	20	2		5				375	STREET LIGHTS
	500			2					31	32	—					375			—
		500		2					33	34	20	1					1000		STREET LIGHT RECEP
			1000	2					35	36					2			1500	
	1500			3					37	38					3	500			↓
		500		2					39	40					2		500		
↓			500	2			↓	↓	41	42	↓	↓			2			200	PARK IRRIG CONTROLLER

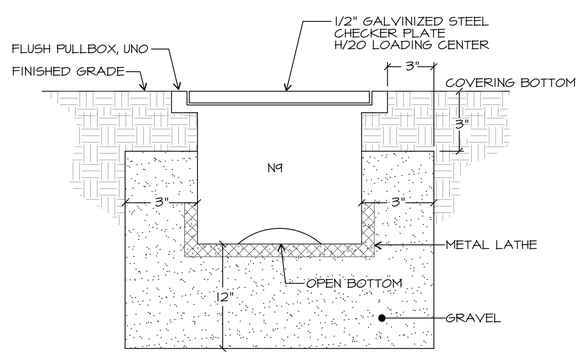
TOTAL WATTS= 22,706 | ΦA= 7,003 | ΦB= 7,111 | ΦC= 8,592

AMPS= 63 x 1.25 = 82A | MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM



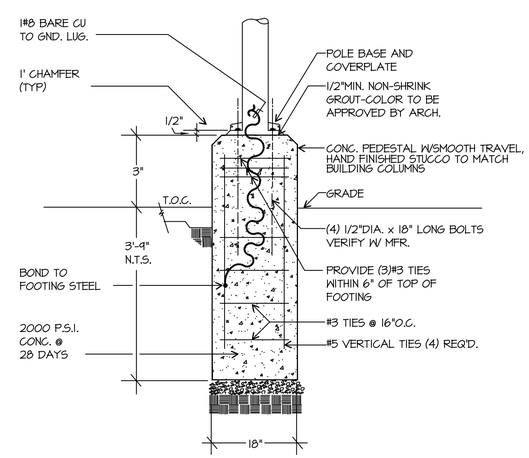
EXISTING SINGLE LINE DIAGRAM (A)

SCALE: NONE



FLUSH PULLBOX DETAIL (B)

SCALE: NONE



POLE BASE DETAIL (C)

SCALE: NONE

BORING NOTES:

1. Boring/Horizontal Drilling:
   - a. Perform survey and verification at all existing underground utilities in the area of boring.
   - b. Prepare a detailed boring plan identifying where bore pit(s) and recurring pit(s) will be.
   - c. Define boring procedure.
   - d. Keep interior of conduit clean and clear. Clean underground conduits by pulling a mandrel through conduit run followed with a swab before pulling wire.
   - e. Reroute conduit from locations shown on the Drawings where it is necessary to clear obstructions. Routes on plan are diagrammatic only.
   - f. Provide junction or pull boxes where required for pulling conductors due to excessive number of bends or length of conduit runs.
   - g. Bored conduit, except those under buildings, shall be a minimum of 24 inches below finished grade. Conduits under roadways shall be a minimum of 36 inches below finished grade. Conduit runs 3/4 inch and smaller in slabs shall be located above vapor barriers. Conduit runs larger than 3/4 inch shall have a minimum depth of 12 inches below floor slabs.
   - h. Standard factory ells shall not be used in underground service conduits or other long underground runs. Field bends shall not be flattened or kinked and shall not materially reduce the internal diameter of the conduit. Bends in long underground runs shall be made in long sweeping bends. Do not bend at couplings. Approved conduit bending methods shall be used.
   - i. All conduit runs shall have a code size insulated grounding conductor.
   - j. Locate conduit stub-outs dimensionally from building or curb lines on Record Drawings.
   - k. Pull wires shall be installed in empty conduits including telephone conduits and stub-outs, No. 12 AWG, type "THWN" insulated copper wire or 1/8-inch polyethylene rope shall be used.
   - l. Spare underground conduits shall be sealed with duct plugs that have pull tabs. Duct tape shall not be used to seal unused conduits.

SYMBOLS

- CONDUIT EXISTING
- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE
- CONDUIT STUBBED OUT AND CAPPED
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- HATCH MARKS INDICATE NO. OF #12 WIRES IN CODE SIZED CONDUIT (3) MAX. IN 1/2" C., (5) MAX. IN 3/4" C., (8) MAX. IN 1"C., NO MARKS = 2,#12.
- A-3 HOME RUN: LETTER INDICATES PANEL, NUMBER(S) INDICATES CIRCUIT(S).
- SAWCUT
- GROUND CONNECTION
- DISTRIBUTION SWITCHBOARD OR PANEL
- PANEL, BRANCH CIRCUIT TYPE, SURFACE AND FLUSH
- SIGNAL TERMINAL CABINET, SURFACE & FLUSH
- FLUORESCENT FIXTURE
- 2 a OUTLET DATA: BAR INDICATES WALL MOUNT, LETTER INDICATES SWITCH CONTROL, NO. INDICATES CIRCUIT.
- SURFACE FIXTURE ON FLUSH OUTLET.
- RECESSED FIXTURE WITH JUNCTION BOX FOR THRU WIRING
- EXIT LIGHT WITH ARROWS AS SHOWN ON PLANS, WALL AND CEILING MOUNT.
- LOW LEVEL EXIT SIGN, +6" AFF, +4" FROM DOOR JAMB
- A 100 LIGHT FIXTURE DESIGNATION, LETTER INDICATES TYPE, NO. INDICATES WATTAGE. SEE FIXTURE SCHEDULE.
- FC 1 MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL DRAWINGS.
- SPECIAL RECEPTACLE - SEE PLAN
- M METER
- FLUSH FLOOR RECEPTACLE
- RECEPTACLE, DUPLEX, 15A, 125V, NEMA 5-15R +18" U.N.O.
- DUPLEX RECEPTACLE MTD. ABOVE BACKSPLASH
- DUPLEX RECEPTACLE W/LOWER HALF SWITCHED
- GFI GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- CEILING RECEPTACLE
- RECEPTACLE, DUPLEX, 20A, 125V, NEMA 5-20R +18" U.N.O.
- J JUNCTION BOX 4" SQUARE, 1-1/2" DEEP U.N.O.
- T THERMOSTAT F.B.O. +48"
- 2 MOTOR, NO. INDICATES HORSEPOWER
- CLOCK OUTLET +7'-6" U.N.O.
- DISCONNECT SWITCH, NON-FUSED
- F DISCONNECT SWITCH FUSED HORSEPOWER RATED OR SIZED AS NOTED
- COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH AND FUSES
- MAGNETIC MOTOR STARTER W/OVERLOADS IN EACH PHASE
- D DIMMER W/INTEGRAL "ON-OFF" SW.
- PUSHBUTTON
- PC PHOTOCELL
- S SMOKE DETECTOR INTERCONNECTED AT 120V PROVIDE BATTERY BACKUP
- C CARBON MONOXIDE DETECTOR INTERCONNECTED AT 120V PROVIDE BATTERY BACKUP
- MS CEILING MOUNTED OCCUPANCY SENSOR
- PP POWER PACK, LOW VOLTAGE POWER SUPPLY FOR CEILING MOUNTED SENSORS
- TELEPHONE/COMPUTER/DATA OUTLET, TWO GANG BOX W/ 1 GANG COVERPLATE & GROMMETED OPENING +18" U.N.O.
- TV CABLE TV OUTLET +18" U.N.O.
- M MOTION SENSOR
- $ EXISTING SWITCH
- S SINGLE POLE SWITCH
- ^{2} DOUBLE POLE SWITCH
- ^{3} THREE WAY SWITCH
- ^{P} SWITCH W/PILOT LT.
  - (QUIET TOGGLE TYPE RATED AT 20A 120/277V A.C. +48" U.N.O.)
- ^{A} AIR SWITCH FOR GARBAGE DISPOSAL
- ^{M} MANUAL MOTOR STARTER
- FACP FIRE ALARM CONTROL PANEL
- GFI GROUND FAULT CIRCUIT INTERRUPTING
- LST LABOR SAVING TANDEM
- MLO MAIN LUGS ONLY
- w/ WITH
- C.O. CONDUIT ONLY
- W.P. WEATHERPROOF
- F.B.O. FURNISHED BY OTHERS, INSTALL & CONNECT
- U.N.O. UNLESS NOTED OTHERWISE
- N.E.C. NATIONAL ELECTRICAL CODE
- N.I.C. NOT IN CONTRACT
- (E) EXISTING
- (N) NEW
- (R) REMOVE
- (RL) RELOCATE
- S/M SURFACE MOUNT
- U/G UNDERGROUND
- CWP COLD WATER PIPE
- AFF ABOVE FINISHED FLOOR
- HACR HEATING AND AIR CONDITIONING RATED CIRCUIT BREAKER
- N.L. NIGHT LIGHT

NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THIS PROJECT.

REVISIONS	BY

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
19642
627 OLIVE STREET
SANTA BARBARA CA 93101
(805) 569-9216
FAX (805) 569-2405
email : maloney@jmpe.net
www.jmpe.net
REGISTERED PROFESSIONAL ENGINEER
MALONEY
E013083
EXP. 12/31/2021
ELECTRICAL
STATE OF CALIFORNIA

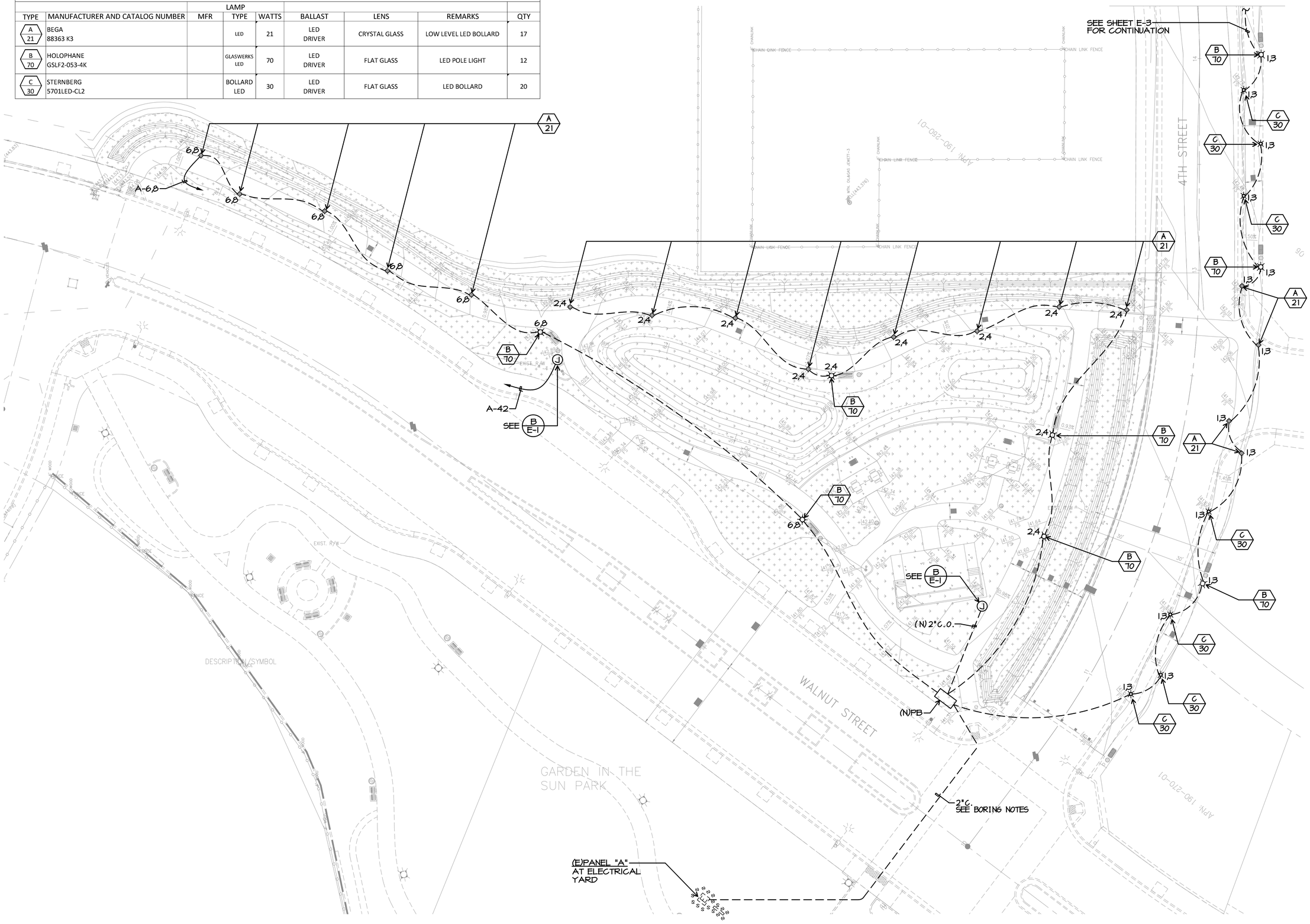
CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING GRANT PROJECT

SYMBOLS
SINGLE LINE DIAGRAM
DETAILS

DATE	06-27-20
SCALE	AS NOTED
DRAWN	JR
JOB	19642
SHEET	E-1
OF	SHEETS 20

FIXTURE SCHEDULE

TYPE	MANUFACTURER AND CATALOG NUMBER	MFR	LAMP TYPE	LAMP WATTS	BALLAST	LENS	REMARKS	QTY
A 21	BEGA 88363 K3		LED	21	LED DRIVER	CRYSTAL GLASS	LOW LEVEL LED BOLLARD	17
B 70	HOLOPHANE GSLF2-053-4K		GLASWERKS LED	70	LED DRIVER	FLAT GLASS	LED POLE LIGHT	12
C 30	STERNBERG 5701LED-CL2		BOLLARD LED	30	LED DRIVER	FLAT GLASS	LED BOLLARD	20



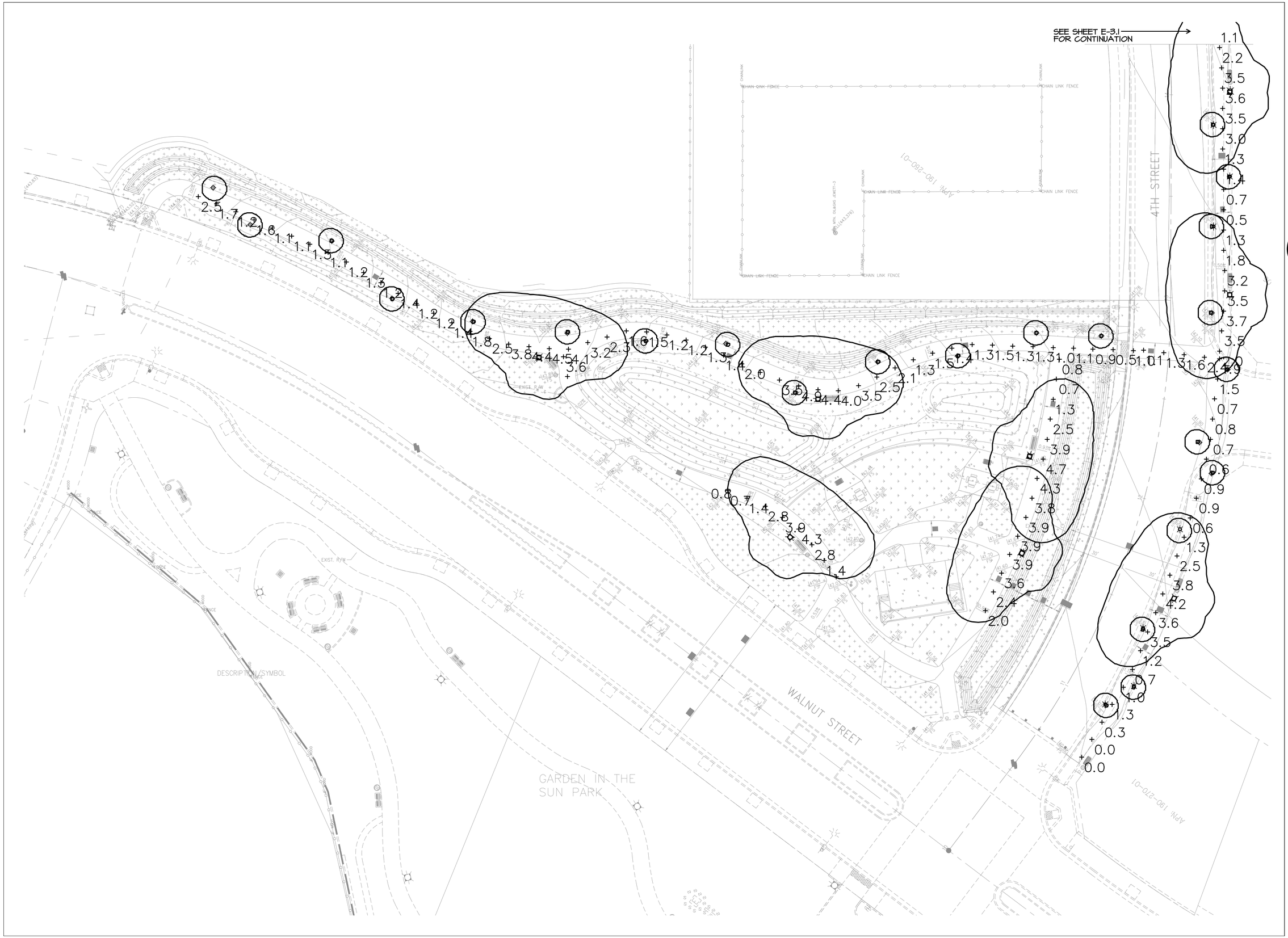
REVISIONS	BY

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
19642
627 OLIVE STREET
SANTA BARBARA CA 93101
(805) 569-9216
FAX (805) 569-2405
email : maloney@jmpe.net
www.jmpe.net
REGISTERED PROFESSIONAL ENGINEER
JAMES ALAN MALONEY
NO. E013083
EXP. 12/31/21
ELECTRICAL
STATE OF CALIFORNIA

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR URBAN GREENING GRANT PROJECT

SITE LIGHTING PLAN

DATE	06-27-20
SCALE	AS NOTED
DRAWN	JR
JOB	19642
SHEET	E-2
OF SHEETS	20



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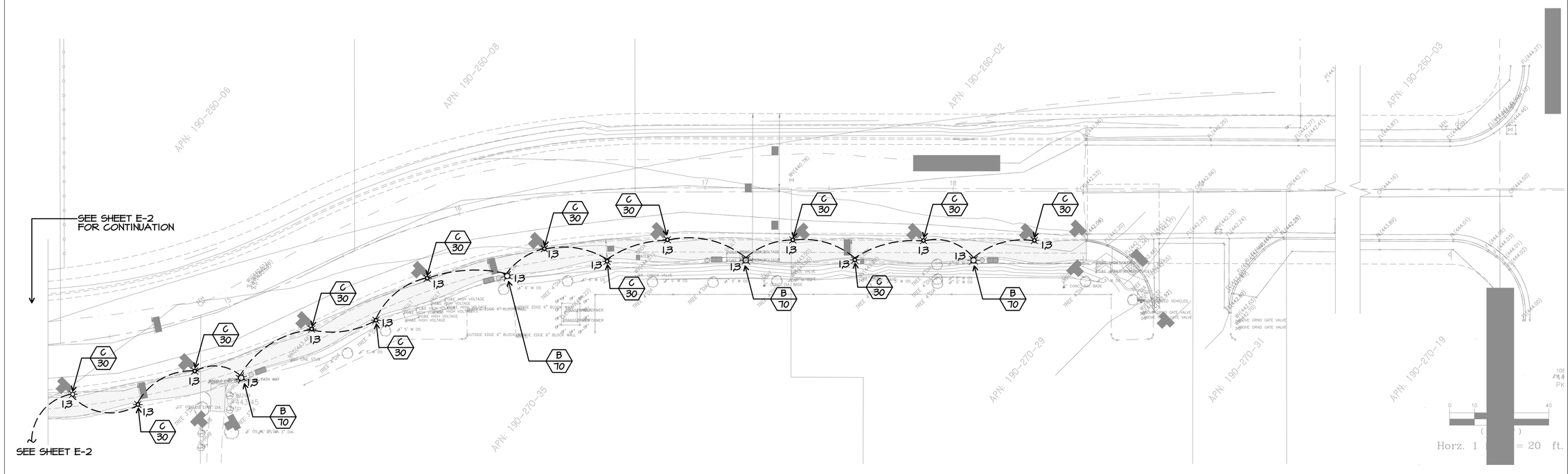
SITE PHOTOMETRIC PLAN

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING GRANT PROJECT

DATE	06-27-20
SCALE	AS NOTED
DRAWN	JR
JOB	19642
SHEET	E-2.1
OF SHEETS	20



REVISIONS	BY

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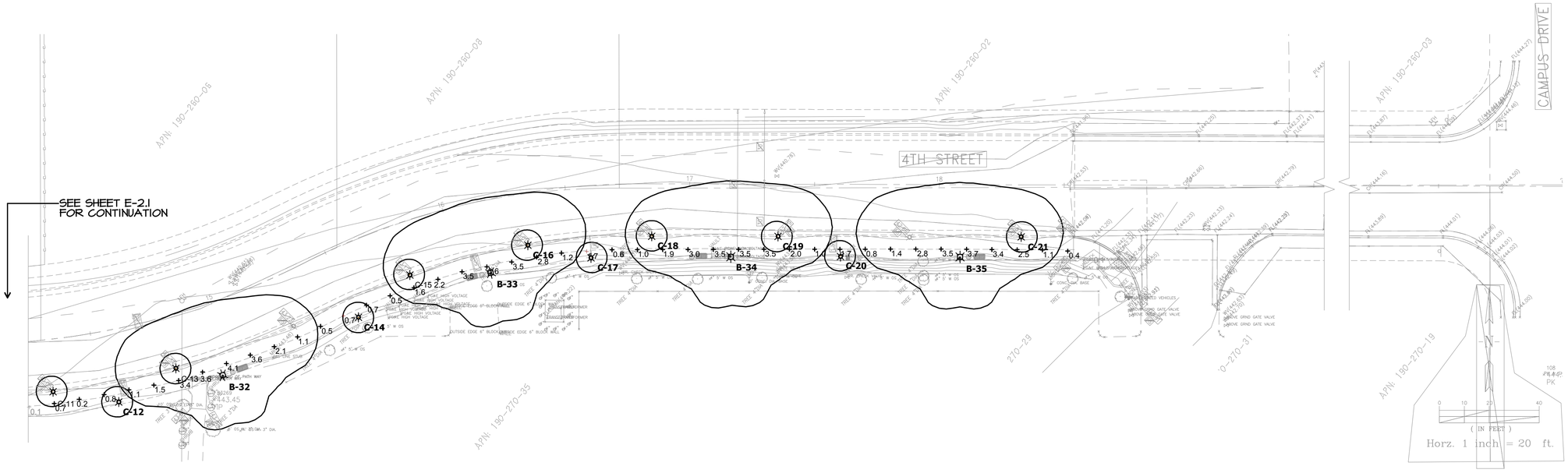
STATE OF CALIFORNIA

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING GRANT PROJECT

ENLARGED SITE LIGHTING PLAN

DATE	06-27-20
SCALE	AS NOTED
DRAWN	JR
JOB	19642
SHEET	E-3
OF	SHEETS 20



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REGISTERED PROFESSIONAL ENGINEER
JOHN MALONEY
No. E013083
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STATE OF CALIFORNIA

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING GRANT PROJECT

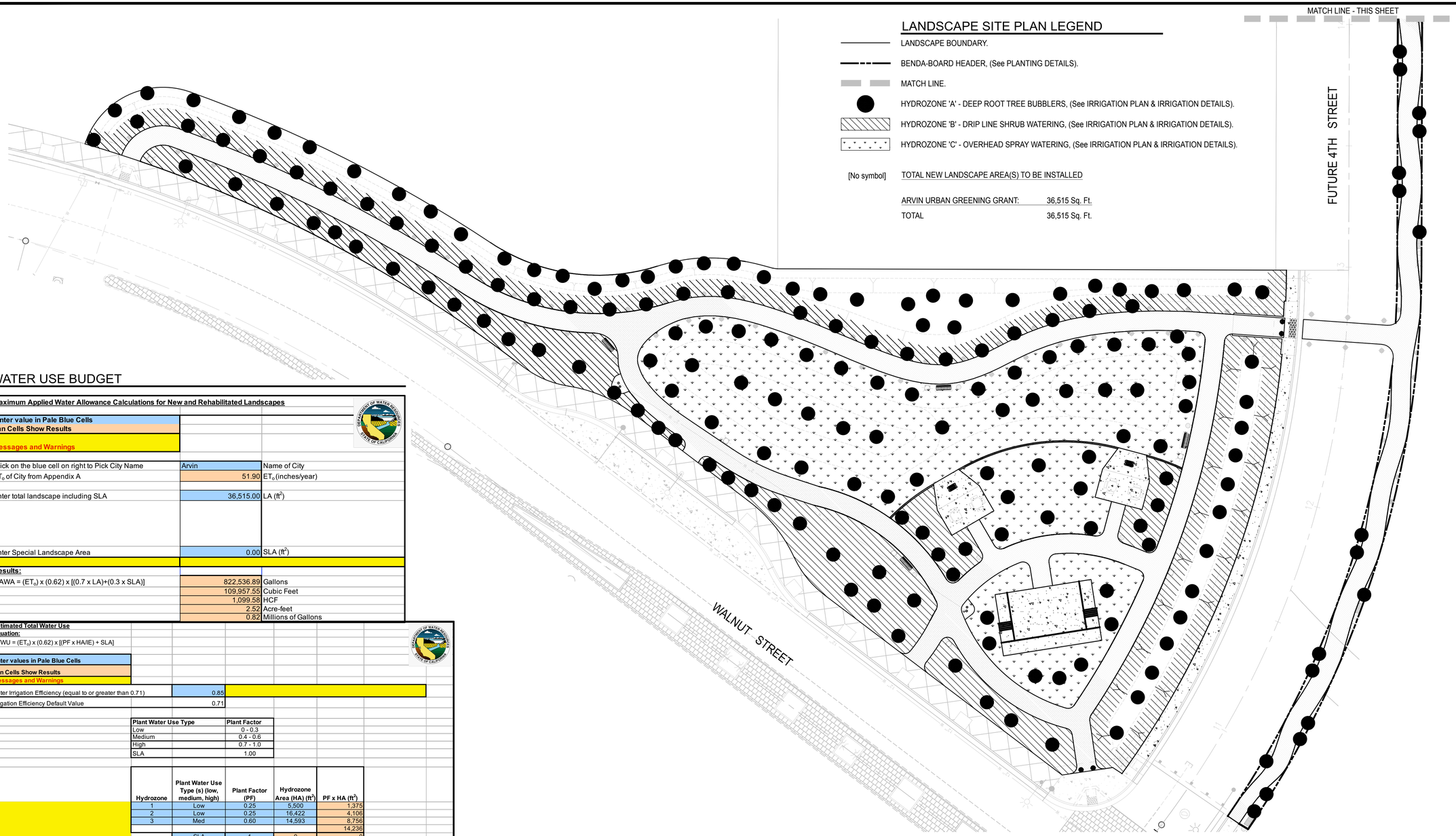
SITE PHOTOMETRIC PLAN

DATE	06-27-20
SCALE	NONE
DRAWN	JR
JOB	19642
SHEET	E-3.1
OF	SHEETS 20

LANDSCAPE SITE PLAN LEGEND

- LANDSCAPE BOUNDARY.
- BENDA-BOARD HEADER, (See PLANTING DETAILS).
- MATCH LINE.
- HYDROZONE 'A' - DEEP ROOT TREE BUBBLERS, (See IRRIGATION PLAN & IRRIGATION DETAILS).
- HYDROZONE 'B' - DRIP LINE SHRUB WATERING, (See IRRIGATION PLAN & IRRIGATION DETAILS).
- HYDROZONE 'C' - OVERHEAD SPRAY WATERING, (See IRRIGATION PLAN & IRRIGATION DETAILS).
- [No symbol] TOTAL NEW LANDSCAPE AREA(S) TO BE INSTALLED

ARVIN URBAN GREENING GRANT:	36,515 Sq. Ft.
TOTAL	36,515 Sq. Ft.



LANDSCAPE SITE PLAN - ARVIN URBAN GREENING PATHWAYS PROJECT

SCALE 1" = 20'-0"

NORTH

WATER USE BUDGET

Maximum Applied Water Allowance Calculations for New and Rehabilitated Landscapes

Enter value in Pale Blue Cells		
Tan Cells Show Results		
Messages and Warnings		
Click on the blue cell on right to Pick City Name	Arvin	Name of City
ET_o of City from Appendix A	51.90	ET_o (inches/year)
Enter total landscape including SLA	36,515.00	LA (ft^2)
Enter Special Landscape Area	0.00	SLA (ft^2)
Results:		
MAWA = (ET_o) x (0.62) x [(0.7 x LA)+(0.3 x SLA)]	822,536.89	Gallons
	109,957.55	Cubic Feet
	1,099.58	HCF
	2.52	Acre-feet
	0.82	Millions of Gallons

Estimated Total Water Use

Equation:

ETWU = (ET_o) x (0.62) x [(PF x HA/IE) + SLA]

Enter values in Pale Blue Cells		
Tan Cells Show Results		
Messages and Warnings		
Enter Irrigation Efficiency (equal to or greater than 0.71)	0.85	
Irrigation Efficiency Default Value	0.71	

Plant Water Use Type	Plant Factor
Low	0 - 0.3
Medium	0.4 - 0.6
High	0.7 - 1.0
SLA	1.00

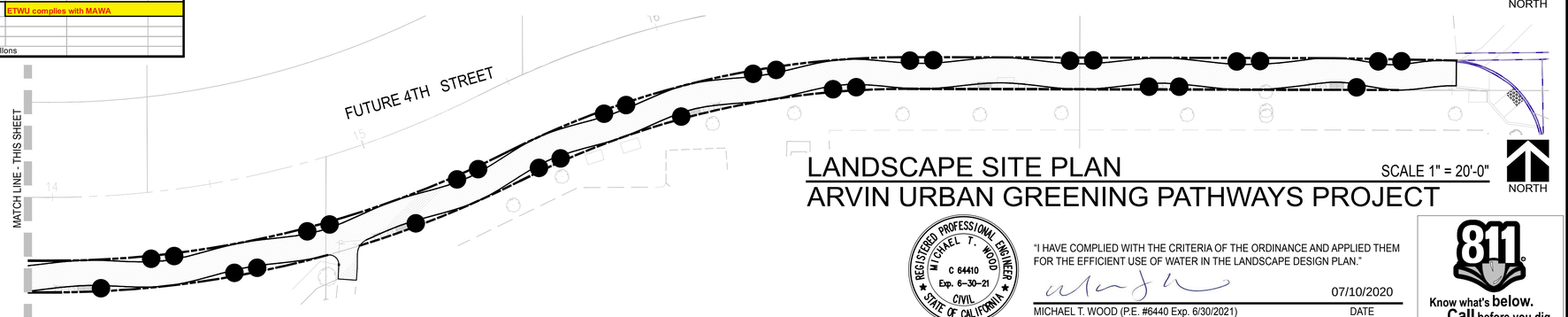
Hydrozone	Plant Water Use Type (s) (low, medium, high)	Plant Factor (PF)	Hydrozone Area (HA) (ft^2)	PF x HA (ft^2)
1	Low	0.25	5,500	1,375
2	Low	0.25	16,422	4,106
3	Med	0.60	14,593	8,756
				14,236
	SLA	1	0	0
		Sum	36,515	

Results

MAWA =	822,537	ETWU=	538,970	Gallons	ETWU complies with MAWA
			72,050	Cubic Feet	
			720	HCF	
			1.65	Acre-feet	
			0.54	Millions of Gallons	

HYDROZONE CALCULATIONS

Hydrozone designation	WUCOLS / Hydrozone water use setting	Sq. Ft. of Hydrozone Coverage	Square Foot Percentage	Hydrozone Use Setting multiplied by the Sq. Ft. %
A	0.25	5,500 Sq. Ft.	15.06%	0.04
B	0.25	16,422 Sq. Ft.	44.97%	0.11
C	0.60	14,593 Sq. Ft.	39.96%	0.24
	Total	36,515 Sq. Ft.	Avg. plant factor for planter area	0.39



LANDSCAPE SITE PLAN
ARVIN URBAN GREENING PATHWAYS PROJECT

SCALE 1" = 20'-0"

NORTH

REGISTERED PROFESSIONAL ENGINEER MICHAEL T. WOOD C 64410 Exp. 6-30-21 CIVIL STATE OF CALIFORNIA

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN."

07/10/2020

MICHAEL T. WOOD (P.E. #6440 Exp. 6/30/2021) DATE

811 Know what's below. Call before you dig.

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING PATHWAYS PROJECT
LANDSCAPE SITE PLAN

DEWALT Corporation
1930 22nd STREET BAKERSFIELD, CA. 93301
PH: (661) 323-4600 FAX: (661) 322-4674
ENGINEERING • PLANNING • SURVEYING •
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

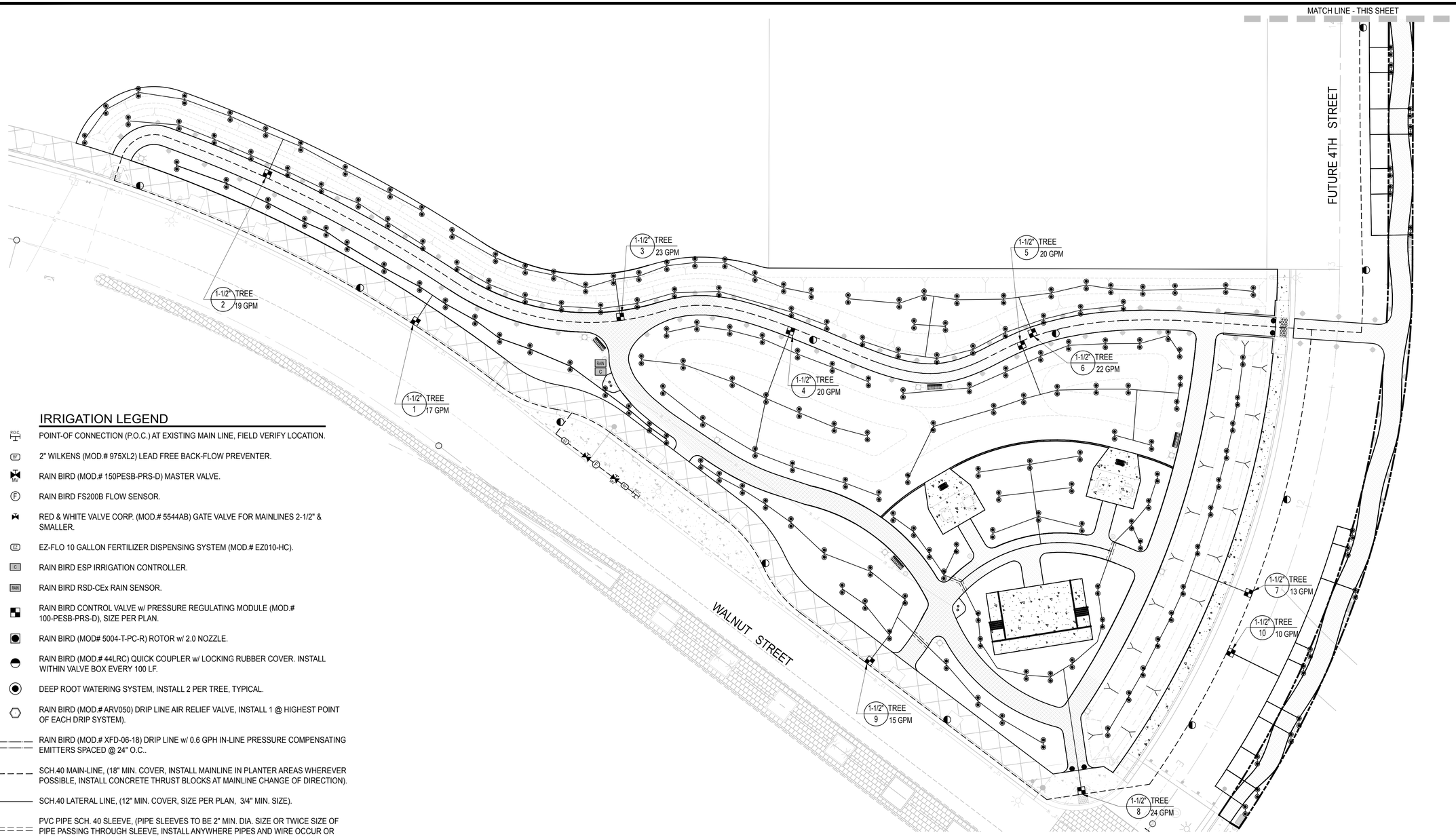
REVISIONS

DATE	

DRAWN BY: B. SMITH
CHECKED BY: T. WOOD
APPROVED BY: T. WOOD
DATE: 01/26/2020
JOB NO: 18-304
ACAD FILE: Arvin Urban Greening Project.DBG

SHEET L1 OF: 20

PLOT DATE: January 31, 2020 10:15:55 AM



IRRIGATION LEGEND

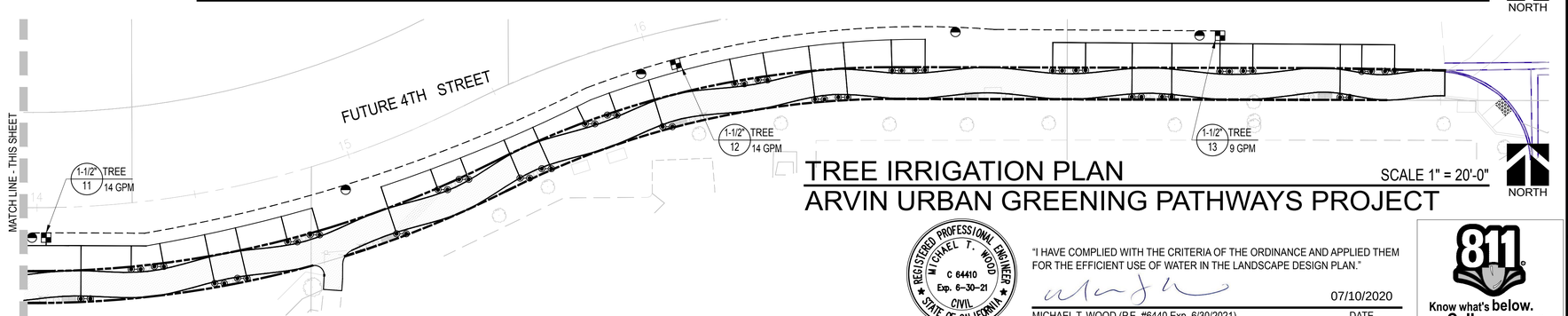
- POC — POINT-OF CONNECTION (P.O.C.) AT EXISTING MAIN LINE, FIELD VERIFY LOCATION.
- BF — 2" WILKENS (MOD.# 975XL2) LEAD FREE BACK-FLOW PREVENTER.
- MV — RAIN BIRD (MOD.# 150PESB-PRS-D) MASTER VALVE.
- F — RAIN BIRD FS200B FLOW SENSOR.
- RED & WHITE VALVE CORP. (MOD.# 5544AB) GATE VALVE FOR MAINLINES 2-1/2" & SMALLER.
- EZ — EZ-FLO 10 GALLON FERTILIZER DISPENSING SYSTEM (MOD.# EZ010-HC).
- C — RAIN BIRD ESP IRRIGATION CONTROLLER.
- RAIN — RAIN BIRD RSD-CEx RAIN SENSOR.
- RAIN BIRD CONTROL VALVE w/ PRESSURE REGULATING MODULE (MOD.# 100-PESB-PRS-D), SIZE PER PLAN.
- RAIN BIRD (MOD# 5004-T-PC-R) ROTOR w/ 2.0 NOZZLE.
- RAIN BIRD (MOD.# 44LRC) QUICK COUPLER w/ LOCKING RUBBER COVER. INSTALL WITHIN VALVE BOX EVERY 100 LF.
- DEEP ROOT WATERING SYSTEM, INSTALL 2 PER TREE, TYPICAL.
- RAIN BIRD (MOD.# ARV050) DRIP LINE AIR RELIEF VALVE, INSTALL 1 @ HIGHEST POINT OF EACH DRIP SYSTEM).
- RAIN BIRD (MOD.# XFD-06-18) DRIP LINE w/ 0.6 GPH IN-LINE PRESSURE COMPENSATING EMITTERS SPACED @ 24" O.C..
- SCH.40 MAIN-LINE, (18" MIN. COVER, INSTALL MAINLINE IN PLANTER AREAS WHEREVER POSSIBLE, INSTALL CONCRETE THRUST BLOCKS AT MAINLINE CHANGE OF DIRECTION).
- SCH.40 LATERAL LINE, (12" MIN. COVER, SIZE PER PLAN, 3/4" MIN. SIZE).
- PVC PIPE SCH. 40 SLEEVE, (PIPE SLEEVES TO BE 2" MIN. DIA. SIZE OR TWICE SIZE OF PIPE PASSING THROUGH SLEEVE, INSTALL ANYWHERE PIPES AND WIRE OCCUR OR THROUGH PAVING AND HARDSCAPE AREAS).

1" TREE — VALVE SIZE
3 TREE — IRRIGATION TYPE
14 GPM — GPM
3 — VALVE & STATION DESIGNATION

TREE IRRIGATION PLAN - ARVIN URBAN GREENING PATHWAYS PROJECT

SCALE 1" = 20'-0"

NORTH



TREE IRRIGATION PLAN
ARVIN URBAN GREENING PATHWAYS PROJECT

SCALE 1" = 20'-0"

NORTH

REGISTERED PROFESSIONAL ENGINEER MICHAEL T. WOOD C 64410 Exp. 6-30-21 CIVIL STATE OF CALIFORNIA

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN."

MICHAEL T. WOOD (P.E. #6440 Exp. 6/30/2021) — 07/10/2020 DATE

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CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING PATHWAYS PROJECT
TREE IRRIGATION PLAN

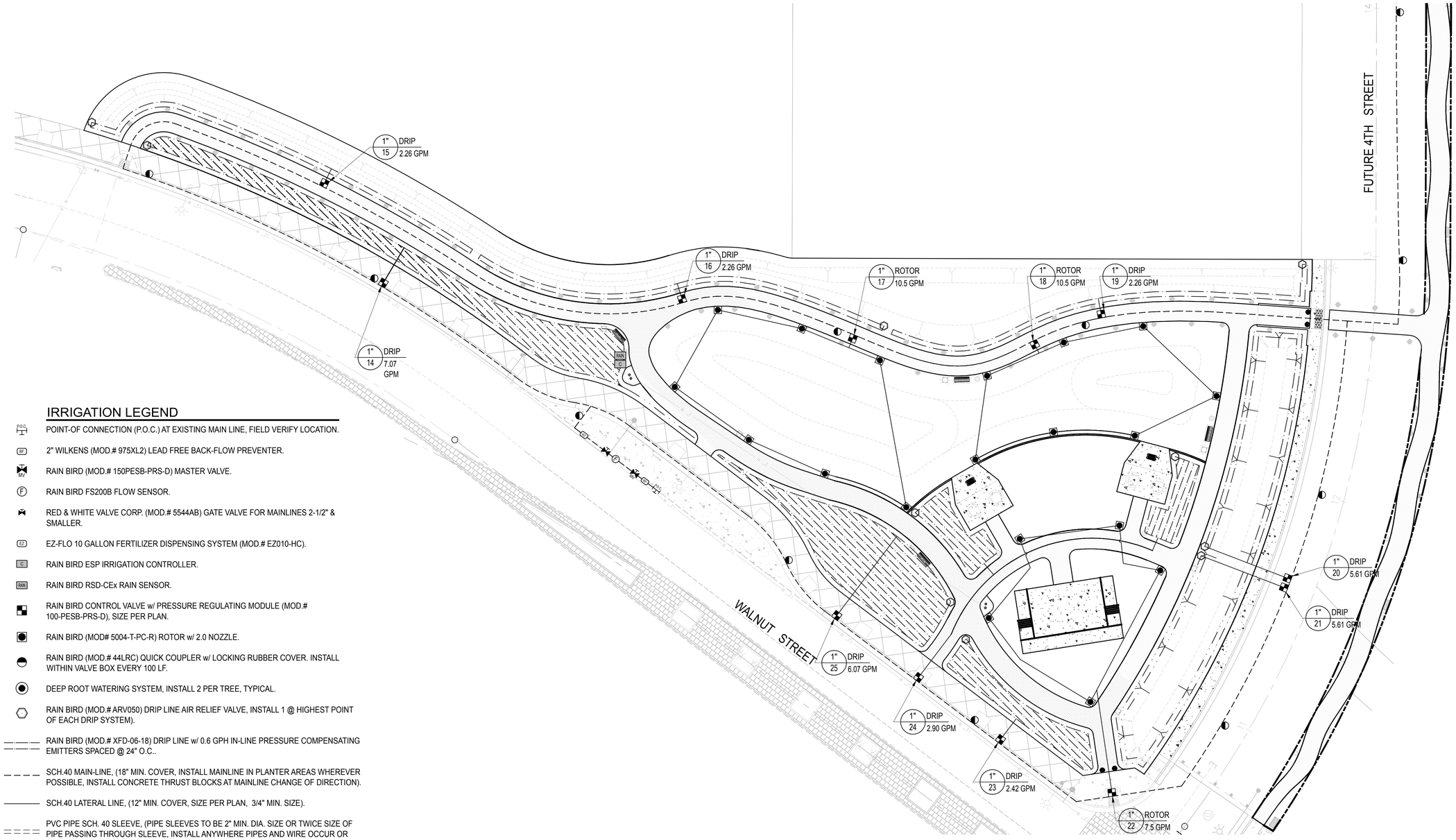
DEWALT Corporation
1930 22nd STREET BAKERSFIELD, CA. 93301
PH: (661) 323-4600 FAX (661) 323-4614
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT • ENGINEERING • PLANNING • SURVEYING

DATE	REVISIONS

DRAWN BY: B. SMITH
CHECKED BY: T. WOOD
APPROVED BY: T. WOOD
DATE: 01/26/2020
JOB NO: 18-304
ACAD FILE: Arvin Urban Greening Project .DWG

SHEET L2 OF: 20

PLOT DATE: January 31, 2020 10:16:13 AM



IRRIGATION LEGEND

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- IC — RAIN BIRD ESP IRRIGATION CONTROLLER.
- RAIN — RAIN BIRD RSD-CEx RAIN SENSOR.
- RAIN BIRD CONTROL VALVE w/ PRESSURE REGULATING MODULE (MOD.# 100-PESB-PRS-D), SIZE PER PLAN.
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- DEEP ROOT WATERING SYSTEM, INSTALL 2 PER TREE, TYPICAL.
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- SCH.40 MAIN-LINE, (18" MIN. COVER, INSTALL MAINLINE IN PLANTER AREAS WHEREVER POSSIBLE, INSTALL CONCRETE THRUST BLOCKS AT MAINLINE CHANGE OF DIRECTION).
- SCH.40 LATERAL LINE, (12" MIN. COVER, SIZE PER PLAN, 3/4" MIN. SIZE).
- PVC PIPE SCH. 40 SLEEVE, (PIPE SLEEVES TO BE 2" MIN. DIA. SIZE OR TWICE SIZE OF PIPE PASSING THROUGH SLEEVE, INSTALL ANYWHERE PIPES AND WIRE OCCUR OR THROUGH PAVING AND HARDSCAPE AREAS).

1"/c TREE — VALVE SIZE / IRRIGATION TYPE
3/c 14 GPM — GPM
VALVE & STATION DESIGNATION

SHRUB IRRIGATION PLAN - ARVIN URBAN GREENING PATHWAYS PROJECT

SCALE 1" = 20'-0"

NORTH

REGISTERED PROFESSIONAL ENGINEER
MICHAEL T. WOOD
C 64410
Exp. 6-30-21
CIVIL
STATE OF CALIFORNIA

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN."

07/10/2020

MICHAEL T. WOOD (P.E. #6440 Exp. 6/30/2021) — DATE

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SHRUB IRRIGATION PLAN

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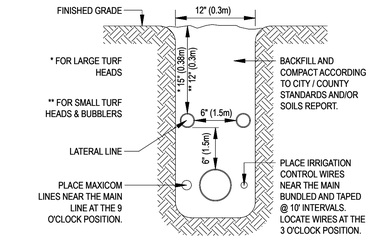
DATE	REVISIONS

DRAWN BY: B.SMITH
CHECKED BY: T.WOOD
APPROVED BY: T.WOOD
DATE: 01/26/2020
JOB NO: 18-304
ACAD FILE: Arvin Urban Greening Project LDSC

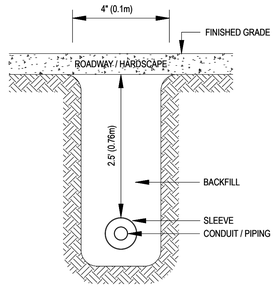
SHEET L3 OF: 20

PLOT DATE: January 31, 2020 10:16:23 AM



1 TYPICAL TRENCH DETAIL

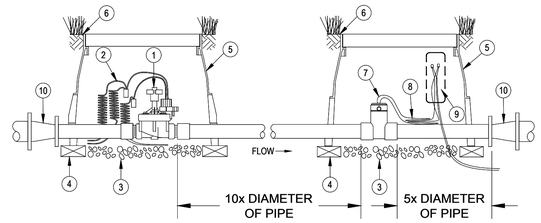
N.T.S.



NOTE
PVC PIPE SCH. 40 SLEEVE, (PIPE SLEEVES TO BE 2" MIN. DIA. SIZE OR TWICE SIZE OF PIPE PASSING THROUGH SLEEVE, INSTALL ANYWHERE PIPES AND WIRE OCCUR OR THROUGH PAVING AND HARDSCAPE AREAS). PIPE SLEEVES SHALL EXTEND 12" BEYOND ALL EDGE(S) OF HARDSCAPE, TYPICAL.

2 TYPICAL SLEEVE DETAIL

N.T.S.

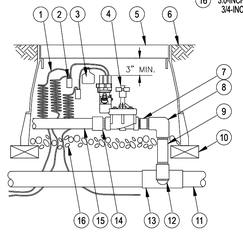


1. RAIN BIRD PE/BPE SERIES MASTER VALVE(S)
2. 36-INCH LENGTH OF COILED WIRE TO SATELLITE CONTROLLER MASTER VALVE CIRCUIT
3. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
4. BRICK (1 OF 4)
5. VALVE BOX WITH COVER - 12-INCH SIZE
6. FINISH GRADE
7. RAIN BIRD FS SERIES 150-400P/FS-100A FLOW SENSOR(S)
8. 36-INCH LENGTH OF COILED PE-CABLE TO FLOW SENSING EQUIPMENT AT SATELLITE CONTROLLER ASSEMBLY
9. SEE SITE CONTROL DETAIL 612 FOR SPLICE. SEE FLOW SENSOR WIRING DETAIL FOR WIRING DIAGRAM
10. CONCENTRIC REDUCER

3 MASTER VALVE & TEE MOUNTED FLOW SENSOR SATELLITE SYSTEM

N.T.S.

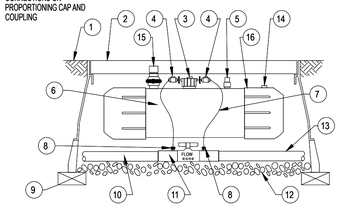
1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION RAIN BIRD SPLICE-1 (1 OF 2)
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE:
5. VALVE BOX WITH COVER: RAIN BIRD VB-STD
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL



4 REMOTE CONTROL VALVE

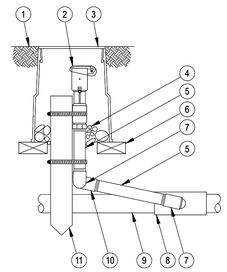
N.T.S.

1. FINISHED GRADE
2. VALVE BOX & COVER 36"L X 24"W X 24" H
3. PROPORTIONING CAP WITH ADJUSTMENT KNOB
4. EZ-FLO SHUT OFF VALVES
5. AIR VENT VALVE
6. FERTILIZER OUT - CONNECT CLEAR TUBE TO GREEN CONNECTIONS ON PROPORTIONING CAP AND COUPLING
7. WATER IN - CONNECT BLACK TUBE TO BLUE CONNECTIONS ON PROPORTIONING CAP AND COUPLING
8. 1/4" TUBING CLAMP - BOTH THE GREEN AND BLUE COUPLING TUBING CONNECTIONS
9. BRICK (1 OF 4)
10. PVC MAIN LINE TO VALVE MANIFOLD
11. EZ BALL VALVE COUPLING CONNECTOR: INSTALL ACCORDING TO WATER FLOW DIRECTION ARROW
12. PEA GRAVEL
13. PVC MAIN LINE FROM BACK FLOW PREVENTER
14. PRESSURE RELIEF VALVE
15. FILL VALVE
16. EZ-FLO MODEL EZ010-HC FERTILZATION SYSTEM 32"L X 12W X 18"H



5 EZ-FLOW FERTILIZING SYSTEM: MOD.# EZ010-HC

N.T.S.



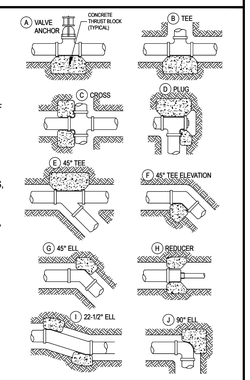
1. FINISH GRADE/TOP OF MULCH
2. QUICK-COUPLING VALVE: RAIN BIRD MODEL 44LRC
3. VALVE BOX WITH COVER: RAIN BIRD VB-6RND
4. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
5. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
6. BRICK (1 OF 2)
7. PVC SCH 40 STREET ELL
8. PVC SCH 40 TEE OR ELL
9. PVC MAINLINE PIPE
10. PVC SCH 40 ELL
11. 2" x 2" REDWOOD STAKE WITH STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

6 QUICK COUPLING VALVE: MOD.# 44RC

N.T.S.

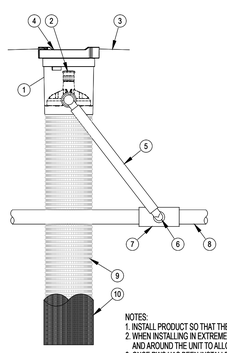
NOTES:

1. ALL MAINLINES INSTALLED SHALL BE TESTED AS PER MANUFACTURER'S SPECIFICATION AND SHALL BE A PART OF THE INSTALLATION SPECIFICATIONS.
2. ALL TRENCHING DEPTHS SHALL BE PER DETAILS 1 & 2, THIS SHEET.
3. PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE CLASS "B" AS PER CALIFORNIA DOT STANDARDS, SEC. 90.
4. THRUST BLOCKS SHALL BE USED AT CHANGES OF DIRECTION (BENDS, TEES), CHANGES OF VELOCITY (REDUCERS, VALVES) AND PIPE DEAD ENDS.
5. WHEN THRUST BLOCKS ARE USED, THE SIZE AND TYPE OF THE BLOCKING MUST BE BASED ON THE MAX. THRUST FORCE EXPECTED AND THE LOAD-BEARING CAPACITY OF THE SOIL.
6. ALL THRUST BLOCKS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE U.P.C..



7 THRUST BLOCK DETAIL

N.T.S.

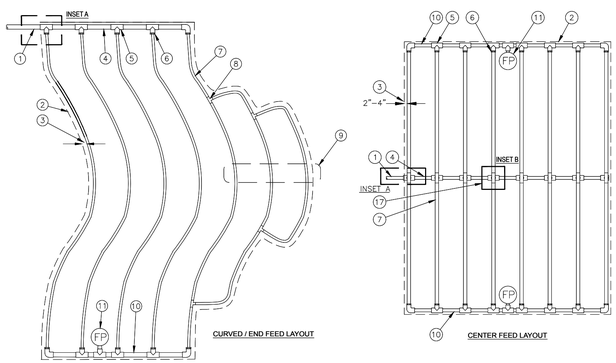


1. ROOT WATERING SYSTEM: RAIN BIRD RWS-B-1402 (INCLUDES RETAINER, 36" (91.4 CM) TUBE, 0.5 GPM (1.9 LPM) BUBBLER, 4" (10.2 CM) GRATE. VERSATILE SWING ASSEMBLY WITH 1/2" (1.3 CM) M NPT INLET)
2. BUBBLER: RAIN BIRD 1402 0.5 GPM (1.9 LPM) (INCLUDED)
3. FINISH GRADE/TOP OF MULCH
4. 4" (10.2 CM) LOCKING GRATE (INCLUDED)
5. 12" (30.5 CM) SWING ASSEMBLY (INCLUDED)
6. 1/2" (1.3 CM) MALE NPT INLET (INCLUDED)
7. PVC SCH 40 TEE OR EL
8. PVC OR POLYETHYLENE LATERAL PIPE
9. 4" (10.2 CM) WIDE X 36" (91.4 CM) LONG RIGID BASKET WEAVE CANISTER (INCLUDED)
10. OPTIONAL SOCK (RWS-SOCK) FOR SANDY SOILS

NOTES:
1. INSTALL PRODUCT SO THAT THE GRATE IS EVEN WITH FINISH GRADE OR TOP OF MULCH.
2. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1.9 CM) GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
3. ONCE RWS HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.

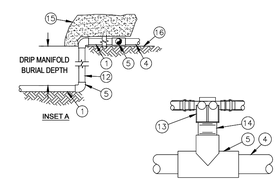
8 ROOT WATERING SYSTEM

N.T.S.



1. PVC SUPPLY PIPE (SIZED TO MEET LATERAL FLOW DEMAND)
2. PERIMETER OF AREA
3. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
4. PVC SUPPLY MANIFOLD
5. PVC SCH 40 TEE OR EL (TYPICAL)
6. BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
7. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL)
8. BARB X BARB INSERT TEE: RAIN BIRD XFF-TEE (TYPICAL)
9. TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
10. PVC FLUSH HEADER
11. FLUSH POINT
12. PVC SCH. 40 RISER PIPE
13. BARB X FEMALE FITTING: RAIN BIRD XFD-TFA-075 FITTING
14. 3/4" PVC NIPPLE, LENGTH AS NECESSARY
15. MULCH
16. FINISH GRADE
17. CONNECTION ROM SUPPLY MANIFOLD TO DRIPLINE (TYPICAL) - SEE INSET B

NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
4. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
5. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

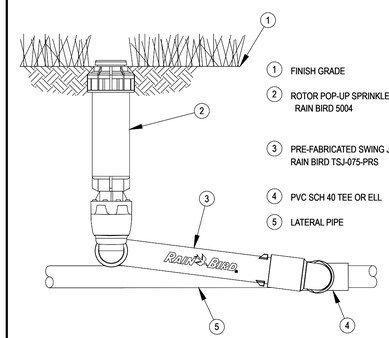


XFD Dripline Maximum Lateral Lengths (Feet)

	12" Spacing		18" Spacing		24" Spacing	
Inlet Pressure psi	Nominal Flow (gph)	0.6	0.9	0.6	0.9	0.6	0.9
15	273	155	314	250	424	322
20	318	169	353	294	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	455	780	514

9 TYPICAL ON-SURFACE DRIPLINE LAYOUT

N.T.S.

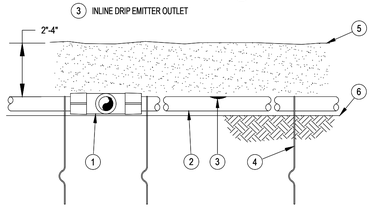


1. FINISH GRADE
2. ROTOR POP-UP SPRINKLER: RAIN BIRD 5004
3. PRE-FABRICATED SWING JOINT: RAIN BIRD TSJ-075-PRS
4. PVC SCH 40 TEE OR ELL
5. LATERAL PIPE

10 ROTOR POP-UP SPRINKLER

N.T.S.

1. EASY FIT COMPRESSION TEE: RAIN BIRD MDCFTEE
2. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFD DRIPLINE NON-POTABLE: XFDP DRIPLINE
3. INLINE DRIP EMITTER OUTLET
4. TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (TYPICAL)
5. MULCH
6. FINISH GRADE



NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

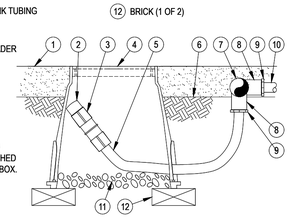
9 ON-SURFACE DRIPLINE AT GRADE

N.T.S.

N.T.S.

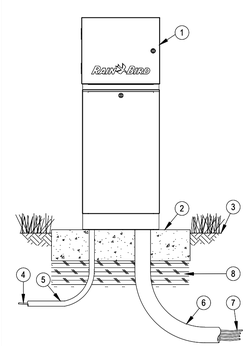
1. MULCH
2. FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS: POTABLE:RAIN BIRD MDCFCAP NON-POTABLE: RAIN BIRD MDCFPCAP
3. EASY FIT COUPLING: RAIN BIRD MDCFCOUP
4. SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
5. RAIN BIRD XF BLANK TUBING
6. FINISH GRADE
7. PVC EXHAUST HEADER
8. PVC SCH 40 TEE OR EL
9. BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
10. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFD DRIPLINE NON-POTABLE: XFDP DRIPLINE
11. 3-INCH MINIMUM DEPTH OF ¾" WASHED GRAVEL
12. BRICK (1 OF 2)

NOTE:
ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.



12 DRIPLINE FLUSH POINT

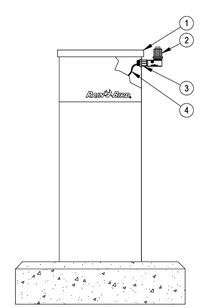
N.T.S.



1. IRRIGATION CONTROLLER: RAIN BIRD ESP-LXME CONTROLLER WITH LXMM METAL CABINET AND LXMMPED METAL PEDESTAL. INSTALL CONTROLLER, CABINET AND PEDESTAL PER MANUFACTURER'S RECOMMENDATIONS.
2. CONCRETE PAD: 6-INCH MINIMUM THICKNESS
3. FINISH GRADE
4. POWER SUPPLY WIRE
5. 1-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR POWER SUPPLY
6. 3-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR STATION WIRES
7. WIRES TO REMOTE CONTROL VALVES
8. COMPACTED SUBGRADE

13 ESP-LXME CONTROLLER IN METAL PEDESTAL

N.T.S.



1. PEDESTAL MOUNTED IRRIGATION CONTROLLER ENCLOSURE
2. RAIN SENSOR: RAIN BIRD RSD-CEx
3. 3/4-INCH SCH 40 RISER EXTENSION (P/PT X MIPT) SECURED TO ENCLOSURE WITH SCH 40 NUT
4. WIRE TO IRRIGATION CONTROLLER

14 RAIN SENSOR RSD-Cx PEDESTAL MOUNT

N.T.S.

IRRIGATION NOTES

1. POINT-OF-CONNECTION (P.O.C.), FIELD VERIFY.
2. IRRIGATION DESIGN PRESSURE 30 PSI. CONTRACTOR SHALL CONFIRM EXISTING PRESSURE AT POINT-OF-CONNECTION (P.O.C.).
3. WHEN CROSSING UNDER ROADWAYS AND/OR OTHER HARD SURFACES, ALL ELECTRICAL & WATER LINES SHALL BE INSTALLED 2.5' DEEP, IN A SCHED. 40 PVC SLEEVE. ALL SLEEVES SHALL BE 2 TIMES (2x) DIA. OF CONDUIT / PIPING. ALL ELECTRICAL CONDUIT SHALL HAVE 1" MIN. DIA. FOR 110 VOLTS & 2" MIN. DIA. FOR LOW VOLTAGE.
4. PIPE SLEEVES SHALL EXTEND 12" MIN. BEYOND ALL EDGE(S) OF HARDSCAPE, TYPICAL.
5. ALL ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH CITY / COUNTY STANDARDS & MANUFACTURER'S RECOMMENDATIONS.
6. ALL MATERIAL USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
7. CONNECT 2-WIRE PATH WITHIN MAINLINE TRENCH, INSTALL IRRIGATION SOLID COPPER CONTROL WIRE DIRECT BURIAL #14 AWG CONTROL WIRES, #12 AWG COMMON WIRE.
8. INSTALL RAIN BIRD VALVE BOXES w/ DROP-IN STYLE LOCKING LIDS; STANDARD RECTANGULAR SERIES VB-STD w/ GREEN COVER FOR RCVS, INSTALL NON-FLANGED GATE VALVES & QUICK COUPLERS IN 9" ROUND SERIES VB-RND VALVE BOX, TYPICAL.
9. AN INITIAL IRRIGATION SYSTEM MAINTENANCE PERIOD OF NINETY (90) DAYS SHALL BE PROVIDED BY CONTRACTOR AND SHALL COMMENCE UPON PLANTING OF FINAL SHRUB AND/OR TREE. DURING THE NINETY (90) DAY MAINTENANCE PERIOD, CONTRACTOR SHALL BE REQUIRED TO PERIODICALLY CHECK THAT THE IRRIGATION SYSTEM IS WORKING PROPERLY AND WITHOUT DEFECTS. SHOULD THE CONTRACTOR FIND THE IRRIGATION SYSTEM WORKING IMPROPERLY OR DEFECTIVE, CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY AND ALL DEFECTIVE PARTS AND/OR EQUIPMENT AT CONTRACTOR'S EXPENSE. UPON TURNOVER TO THE CITY OF ARVIN, A FINAL INSPECTION SHALL BE REQUESTED BY THE CONTRACTOR.
10. CONTRACTOR IS REQUIRED TO PROVIDE ONE (1) ON-SITE IRRIGATION OPERATION TRAINING SESSION TO THE CITY OF ARVIN MAINTENANCE DIVISION. THE TRAINING SESSION SHALL OCCUR ON THE NINETIETH (90TH) DAY OF MAINTENANCE, AT THE TIME OF TURNOVER TO THE CITY OF ARVIN.

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN."

07/10/2020

MICHAEL T. WOOD (P.E. #6440 Exp. 6/30/2021) DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL T. WOOD C 64410 Exp. 6-30-21 CIVIL STATE OF CALIFORNIA

811 Know what's below. Call before you dig.

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING PATHWAYS PROJECT
IRRIGATION NOTES & DETAILS

DEWALT Corporation
1930 22nd STREET BAKERSFIELD, CA. 93301
PH: (661) 325-4600 FAX (661) 325-4614
ENGINEERING • PLANNING • SURVEYING •
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

DATE	REVISIONS

DRAWN BY: B. SMITH
CHECKED BY: T. WOOD
APPROVED BY: T. WOOD
DATE: 01/26/2020
JOB NO: 18-304
ACAD FILE: Arvin Urban Greening Project.DBG

SHEET L4 OF: 20

PLOT DATE: January 31, 2020 10:16:34 AM

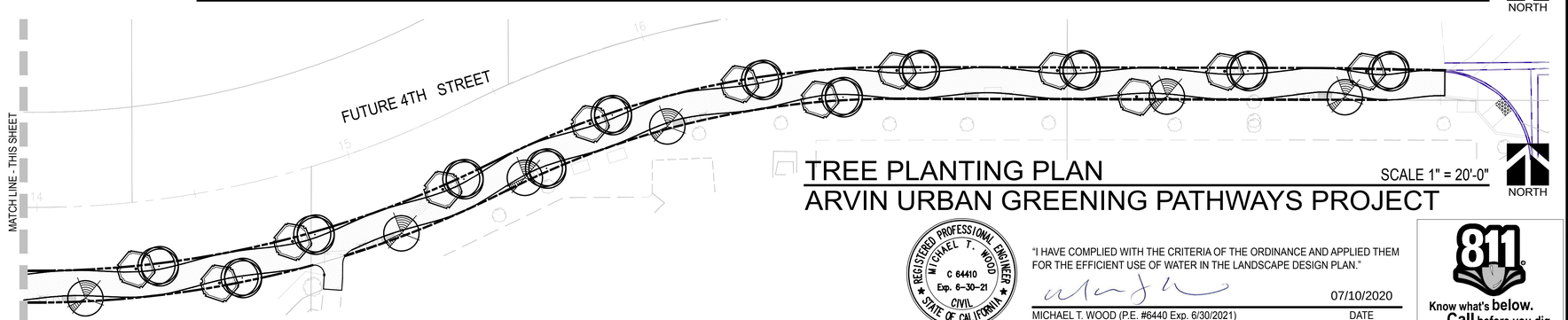
TREE PLANTING LEGEND

Type	Code	Botanical Name	Common Name	Water Use	Size	Qty
Trees						
	Wr	Cercis occidentalis	Western redbud	V.Low	15 Gal.	20
	Dw	Chilopsis linearis	Desert willow	V.Low	15 Gal.	20
	Ct	Chitalpa tashkentensis	Chitalpa	Low	15 Gal.	30
	Sb	Laurus nobilis	Sweet bay	Low	15 Gal.	50
	Is	Pinus pinea	Italian stone pine	Low	15 Gal.	20
	Cp	Pistacia chinensis	Chinese pistache	Low	15 Gal.	50
	Vo	Quercus lobata	Valley oak	Low	15 Gal.	30
					TOTAL	220

TREE PLANTING PLAN - ARVIN URBAN GREENING PATHWAYS PROJECT

SCALE 1" = 20'-0"

NORTH



TREE PLANTING PLAN
ARVIN URBAN GREENING PATHWAYS PROJECT

SCALE 1" = 20'-0"

NORTH

REGISTERED PROFESSIONAL ENGINEER
MICHAEL T. WOOD
C 64410
Exp. 6-30-21
CIVIL
STATE OF CALIFORNIA

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN."

MICHAEL T. WOOD (P.E. #6440 Exp. 6/30/2021) — DATE 07/10/2020

811 Know what's **below.** **Call** before you dig.

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING PATHWAYS PROJECT
TREE PLANTING PLAN

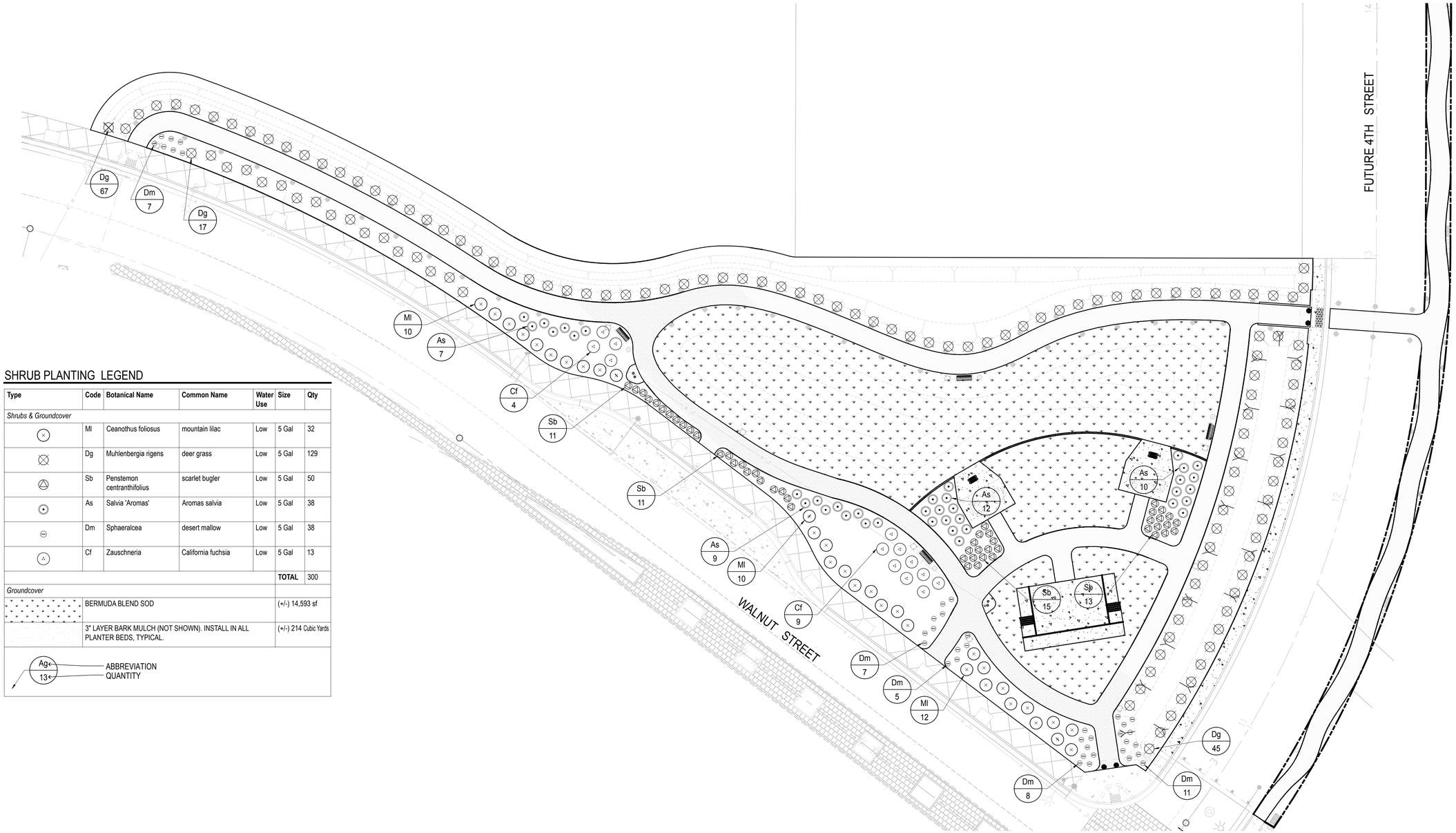
DEWALT Corporation
1930 22nd STREET BAKERSFIELD, CA. 93301
PH: (661) 323-4600 FAX (661) 322-4674
ENGINEERING • PLANNING • SURVEYING •
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

DATE	REVISIONS

DRAWN BY: B.SMITH
CHECKED BY: T.WOOD
APPROVED BY: T.WOOD
DATE: 01/26/2020
JOB NO: 18-304
ACAD FILE: Arvin Urban Greening Project USC

SHEET L5 OF: 20

PLOT DATE: January 31, 2020 10:16:38 AM



SHRUB PLANTING LEGEND

Type	Code	Botanical Name	Common Name	Water Use	Size	Qty
Shrubs & Groundcover						
×	Ml	Ceanothus foliosus	mountain lilac	Low	5 Gal	32
⊗	Dg	Muhlenbergia rigens	deer grass	Low	5 Gal	129
△	Sb	Penstemon centranthifolius	scarlet bugler	Low	5 Gal	50
⊙	As	Salvia 'Aromas'	Aromas salvia	Low	5 Gal	38
⊖	Dm	Sphaeralcea	desert mallow	Low	5 Gal	38
△	Cf	Zauschneria	California fuchsia	Low	5 Gal	13
					TOTAL	300
Groundcover						
		BERMUDA BLEND SOD			(+/-) 14,593 sf	
		3" LAYER BARK MULCH (NOT SHOWN). INSTALL IN ALL PLANTER BEDS, TYPICAL.			(+/-) 214 Cubic Yards	

Ag — ABBREVIATION
13 — QUANTITY

SHRUB PLANTING PLAN - ARVIN URBAN GREENING PATHWAYS PROJECT

SCALE 1" = 20'-0"

NORTH

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN."

07/10/2020

MICHAEL T. WOOD (P.E. #6440 Exp. 6/30/2021) — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL T. WOOD — C 64410 — Exp. 6-30-21 — CIVIL — STATE OF CALIFORNIA

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CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING PATHWAYS PROJECT
SHRUB PLANTING PLAN

DEWALT Corporation
1930 22nd STREET BAKERSFIELD, CA. 93301
PH: (661) 323-4600 FAX (661) 322-4614
ENGINEERING • PLANNING • SURVEYING •
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

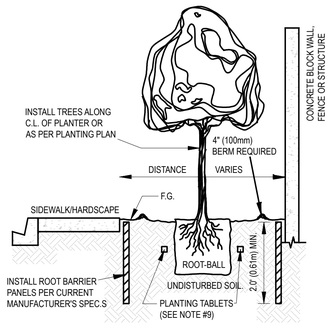
DATE	REVISIONS

DRAWN BY: B.SMITH
CHECKED BY: T.WOOD
APPROVED BY: T.WOOD
DATE: 01/26/2020
JOB NO: 18-304
ACAD FILE: Arvin Urban Greening Project USSC

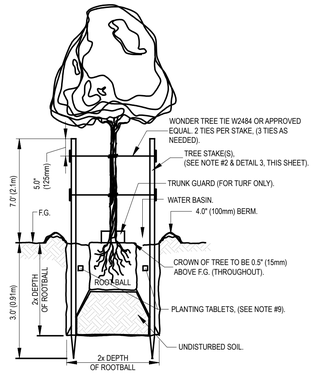
SHEET L6 OF: 20

PLOT DATE: January 31, 2020 10:16:47 AM

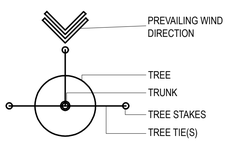
TREE PLANTING



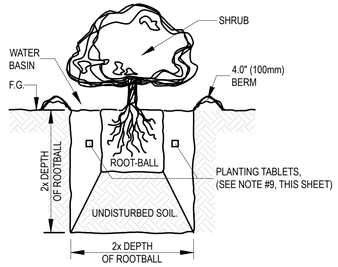
1 TREE PLANTING w/ROOT-BARRIER N.T.S.



2 STAKING DETAIL N.T.S.



3 STAKING LOCATION N.T.S.

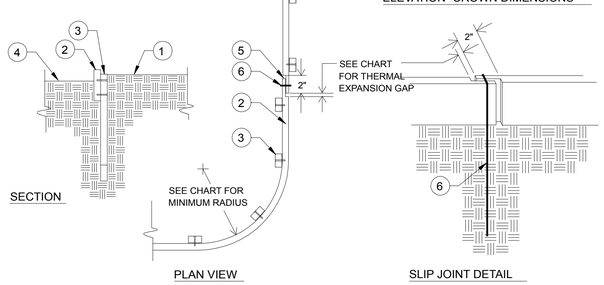


4 TYP. SHRUB PLANTING DETAIL N.T.S.

BENDA BOARD CHART

HDR. SIZE	ACTUAL DIMENSIONS	MINIMUM RADIUS POSSIBLE	MAXIMUM CROWN POSSIBLE	THERMAL EXPANSION GAP AT SLIP JOINT	SLIP JOINT HAIRPIN DIMENSIONS
1X4	3 3/8" x 11/16" x 20'	24"	19" / 20'	1/4" - 1/2"	3/4" ID x 13"

COLOR MENDOCINO REDWOOD
MANUFACTURED BY: EPIC PLASTICS
URL ADDRESS: www.epicplastics.com



1. DO NOT SCREW THROUGH SLIP JOINT
2. USE COARSE WOOD WORKING TOOLS FOR CUTTING & DRILLING
3. USE PLATED SCREWS OR RING SHANK NAILS TO JOIN BOARD TO STAKE
4. ALLOW FOR THERMAL EXPANSION & CONTRACTION BY LEAVING GAPS IN THE SLIP JOINTS OR AT THE END OF THE RUN (SEE CHART)
   WARM WEATHER INSTALL MIN GAP
   COLD WEATHER INSTALL MAX GAP
5. STAKE APPROX 3' 0" OC (MORE FOR STRAIGHT RUNS LESS FOR CURVES)

1. FINISH GRADE- -1" BELOW TOP OF HEADER BOARD AT DG PATH SIDE.
2. 1" x 4" BEND-A-BOARD PLASTIC HEADER BOARD
3. PLASTIC STAKE @ 3' O.C. MAX. USE PLATED DECK SCREWS FOR ATTACHMENT
4. FINISH GRADE- -2" BELOW TOP OF HEADER BOARD AT SHRUB/GROUNDCOVER PLANTING BED SIDE.
5. FACTORY CUT THERMAL EXPANSION SLIP JOINT
6. 7 GA. GALVANIZED STEEL HAIRPIN, SEE CHART FOR WIDTH

5 BENDA BOARD PLASTIC HEADER N.T.S.

PLANTING NOTES

1. ALL LANDSCAPE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY / COUNTY STANDARDS, MANUFACTURER'S RECOMMENDATIONS AND PER THE APPROVED LANDSCAPE/IRRIGATION PLANS.
2. SEE APPROVED LANDSCAPE/IRRIGATION PLANS FOR SPECIFIC MODEL NUMBERS, SIZE, MANUFACTURER, AND PERFORMANCE REQUIREMENTS.
3. ANY DEVIATIONS FROM THE APPROVED DESIGNS SHALL BE APPROVED BY THE PROJECT OWNER.
4. CONSTRUCT MOUND AS REQUIRED TO SECURE PLANTS STABILITY DURING CONSTRUCTION INSTALLATION.
5. ALL TREES SHALL BE STAKED WITH NEW 2.0" (50mm) DIA. (PRESSURE TREATED) LODGE POLE PINE. REMOVE NURSERY TREE STAKES FROM ALL PLANT MATERIAL DELIVERED TO THE PROJECT SITE AND INSTALL NEW TREE STAKES, TYPICAL.
6. ROOT GUARD BARRIER IS REQUIRED WHEN THE TREE TRUNK IS 5.0' (1.5m) OR LESS FROM ANY HARDSCAPE AND/OR STRUCTURE. PLACE ROOT GUARD BARRIER PARALLEL ALONG THE EDGE OF HARDSCAPE/STRUCTURE, (SEE DETAIL L-103) TYP.
7. PLANTING TABLET SHALL BE PLACED 2.0" (50mm) BELOW FINISHED GRADE NEAR ROOT FOUNDATION AS FOLLOWS:
   1 - TABLET PER 1 GAL. (3.79 L)
   3 - TABLETS PER 5 GAL. (18.9 L)
   6 - TABLETS PER 15 GAL. (56.8 L)
   9 - TABLETS PER 2.0' (0.6 M) BOX
8. ALL MATERIAL USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
9. PER SECTION 492.6 OF THE MWELO, A MINIMUM THREE INCH (3") LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT IN TURF AREAS, CREEPING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED.

PLANTING LEGEND

Type	Code	Botanical Name	Common Name	Water Use	Size	Qty
Trees						
	Wr	Cercis occidentalis	Western redbud	V.Low	15 Gal.	20
	Dw	Chilopsis linearis	Desert willow	V.Low	15 Gal.	20
	Ct	Chitalpa tashkentensis	Chitalpa	Low	15 Gal.	30
	Sb	Laurus nobilis	Sweet bay	Low	15 Gal.	50
	Is	Pinus pinea	Italian stone pine	Low	15 Gal.	20
	Cp	Pistacia chinensis	Chinese pistache	Low	15 Gal.	50
	Vo	Quercus lobata	Valley oak	Low	15 Gal.	30
					TOTAL	220
Shrubs & Groundcover						
	Ml	Ceanothus foliosus	mountain lilac	Low	5 Gal	32
	Dg	Muhlenbergia rigens	deer grass	Low	5 Gal	129
	Sb	Penstemon centranthifolius	scarlet bugler	Low	5 Gal	50
	As	Salvia 'Aromas'	Aromas salvia	Low	5 Gal	38
	Dm	Sphaeralcea	desert mallow	Low	5 Gal	38
	Cf	Zauschneria	California fuchsia	Low	5 Gal	13
					TOTAL	300
Groundcover						
		BERMUDA BLEND SOD			(+/-) 14,593 sf	
		3" LAYER BARK MULCH (NOT SHOWN). INSTALL IN ALL PLANTER BEDS, TYPICAL.			(+/-) 214 Cubic Yards	

Ag< — ABBREVIATION
13< — QUANTITY

REGISTERED PROFESSIONAL ENGINEER MICHAEL T. WOOD C 64410 Exp. 6-30-21 CIVIL STATE OF CALIFORNIA

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN."

07/10/2020

MICHAEL T. WOOD (P.E. #6440 Exp. 6/30/2021) DATE

811 Know what's below. Call before you dig.

CITY OF ARVIN
CIVIL DEVELOPMENT PLANS FOR
URBAN GREENING PATHWAYS PROJECT
LANDSCAPE PLANTING DETAILS & NOTES

DEWALT Corporation
1930 22nd STREET BAKERSFIELD, CA. 93301
PH. (661) 323-4600 FAX (661) 322-4674
ENGINEERING • PLANNING • SURVEYING •
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

DATE	REVISIONS

DRAWN BY: B.SMITH
CHECKED BY: T.WOOD
APPROVED BY: T.WOOD
DATE: 01/26/2020
JOB NO: 18-304
ACAD FILE: Arvin Urban Greening Project L00C

SHEET L7 OF: 20

PLOT DATE: January 31, 2020 10:17:11 AM