

FB-26-03 ASPHALT PARKING LOT REMOVAL AND REPLACEMENT WITH ADA PATHWAY UPGRADES

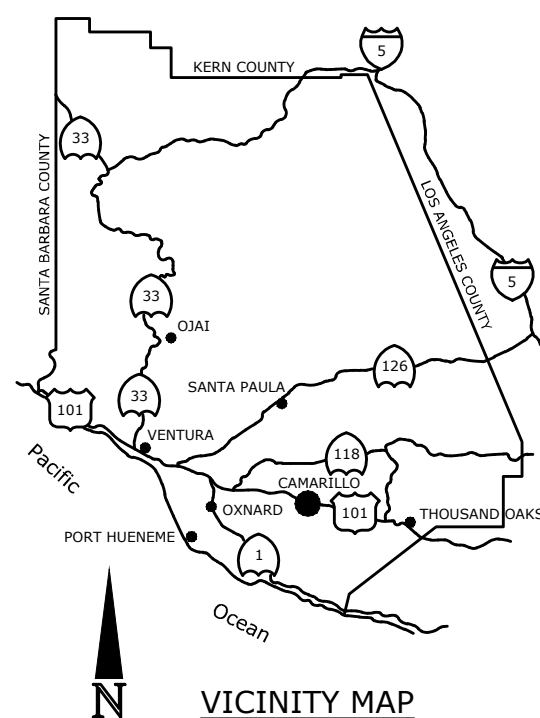
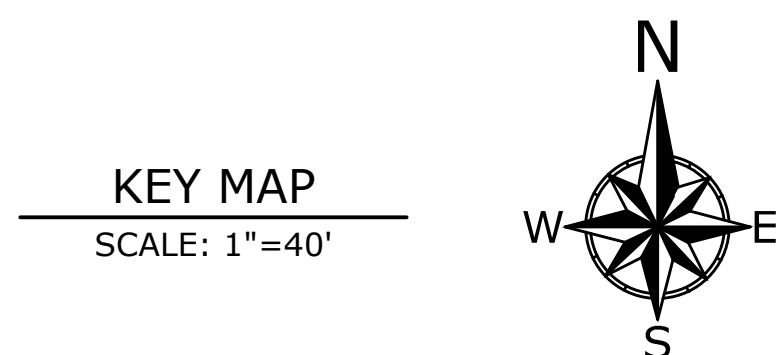
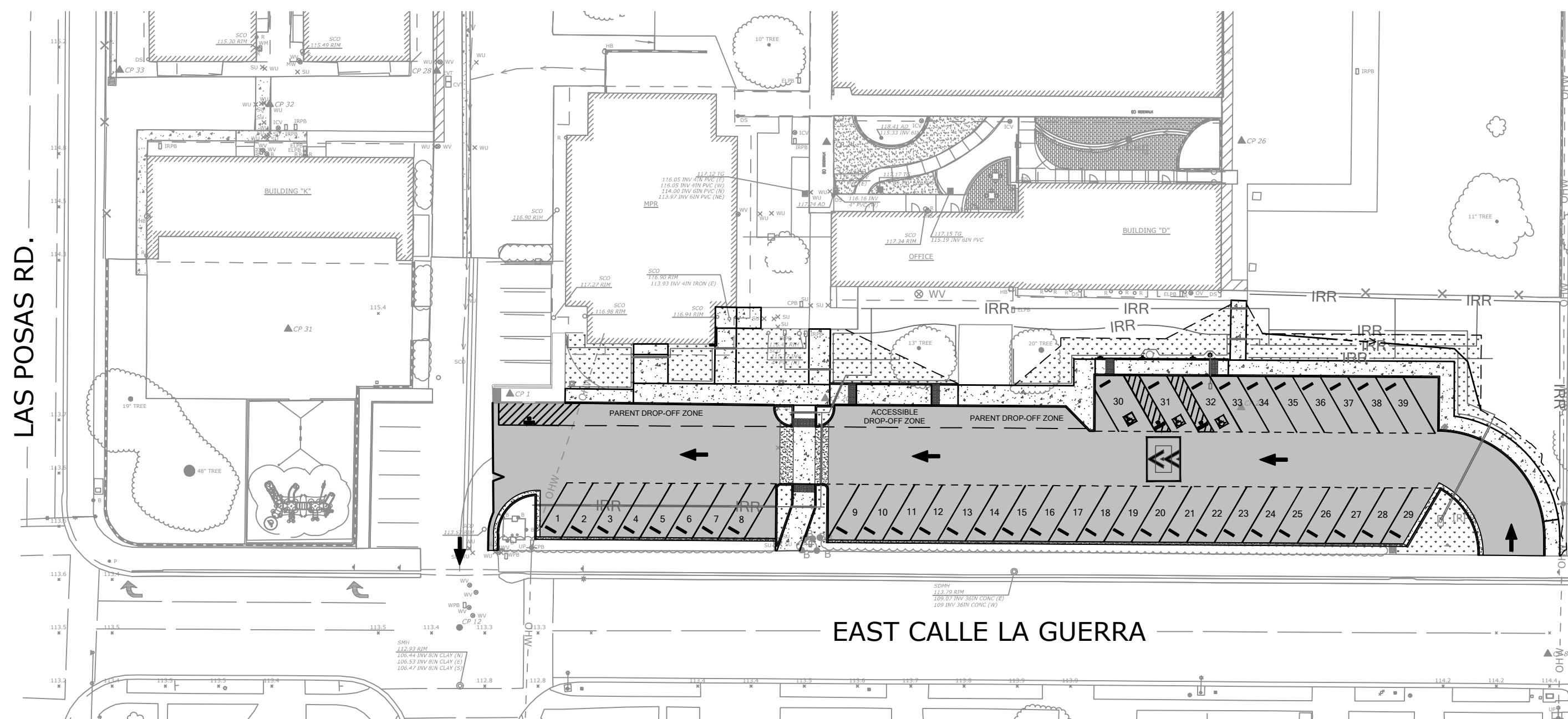
LAS POSAS ELEMENTARY SCHOOL
75 EAST CALLE LA GUERRA
CAMARILLO, CA 93010

GENERAL NOTES

1. AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT) OF SOUTHERN CALIFORNIA - U.S.A. (AT 811) TO OBTAIN AN INQUIRY IDENTIFICATION NUMBER AND TO REQUEST THE UTILITY OWNERS TO MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR SUBSURFACE FACILITIES. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES, INCLUDING ALL SERVICE CONNECTIONS, WHICH HAVE BEEN MARKED BY THE RESPECTIVE OWNERS WHICH MAY AFFECT OR BE AFFECTED BY ITS OPERATIONS. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND ALL STRUCTURES FOUND AT THE SITE.
2. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE DISTRICT REPRESENTATIVE THROUGHOUT THE CONSTRUCTION OPERATION.
3. THE CONTRACTOR SHALL KEEP A STRICT RECORD OF ALL CHANGES AND SUBMIT THIS RECORD TO THE DISTRICT REPRESENTATIVE. "AS-BUILT" PLANS SHALL BE PROVIDED TO THE DISTRICT.
4. ALL DAMAGE CAUSED TO PUBLIC STRUCTIONS, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE DISTRICT REPRESENTATIVE'S SATISFACTION.
5. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY EXISTING BROKEN OR DAMAGED SIDEWALK, CURB, AND GUTTER AS DIRECTED BY THE DISTRICT REPRESENTATIVE.
6. SAWCUTTING OF EXISTING PAVEMENT SHALL BE TO A CLEAN STRAIGHT EDGE AS DIRECTED BY THE DISTRICT REPRESENTATIVE.
7. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, SIDEWALKS, SIDEWALKS AND PAVEMENTS.
8. WHERE JOINING THE EXISTING PAVEMENT, SAWCUT TO SOUND PAVEMENT AND OVERLAY AS REQUIRED TO PROVIDE PROPER GRADE AND 2% CROSS-SLOPE. ANY UNSOUND PAVEMENT SHALL BE REPLACED.
9. ALL MANHOLE RIMS, LIDS, VALVE BOXES AND OTHER APPURTENANCES SHALL BE SET TO FINISH GRADE BY THE CONTRACTOR AS PART OF THIS PROJECT.
10. A PRECONSTRUCTION CONFERENCE OF ALL INTERESTED PARTIES SHALL BE HELD PRIOR TO ANY CONSTRUCTION OR GRADING TO ANSWER ANY QUESTIONS OR TO CLARIFY ANY PORTION OF THESE GRADING PLANS.
11. ALL RECOMMENDATIONS MADE BY THE SOILS ENGINEER CONTAINED IN THE REPORT BY GEOTECHNIQUES (PROJECT NO. 0225.003.03, DATED APRIL 14, 2023 (REV. JANUARY 30, 2026), (INCLUDING ANY ADDENDA) SHALL BE A PART OF THIS GRADING PLAN.
12. ALL DELETERIOUS MATERIAL, SUCH AS LUMBER, LOGS, BRUSH, OR ANY OTHER ORGANIC MATERIALS OR RUBBISH, SHALL BE REMOVED FROM ALL AREAS TO RECEIVE COMPACTED FILL.
13. UNSUITABLE MATERIAL, SUCH AS TOP SOIL, WEATHERED BED ROCK, ETC., SHALL BE REMOVED AS REQUIRED BY THE SOILS ENGINEER FROM ALL AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES.
14. ALL AREAS TO RECEIVE COMPACTED FILL SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER AFTER REMOVAL OF UNSUITABLE MATERIAL AND EXCAVATION OF KEYWAYS AND BENCHES, AND PRIOR TO PLACEMENT OF SUBSURFACE DRAINAGE SYSTEMS OR ANY FILL.
15. ALL SOIL OR ROCK MATERIALS DEEMED UNSUITABLE FOR PLACEMENT IN COMPACTED FILL SHALL BE REMOVED FROM THE SITE. ANY MATERIAL SUCH AS CONCRETE OR IMPORTED MATERIALS SHALL BE APPROVED BY THE SOILS ENGINEER PRIOR TO USE IN COMPACTED FILL.

SURVEY NOTES

1. MAPPING
- TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=20'. WITH A 1 FOOT CONTOUR INTERVAL, USING STANDARD PHOTOGRAMMETRIC METHODS AND PROCEDURES BY CENTRAL COAST AERIAL MAPPING, INC. FROM AERIAL PHOTOGRAPHY OBTAINED ON JANUARY 23, 2020.
- MAPPING IS SUPPLEMENTED BY DATA COLLECTED FROM A FIELD SURVEY USING CONVENTIONAL EQUIPMENT AND PROCEDURES IN DECEMBER, 2021, JANUARY, 2022, NOVEMBER 2022, JANUARY 2023, AND JANUARY 2024 AT THE REQUEST OF PLEASANT VALLEY SCHOOL DISTRICT.
2. BASIS OF BEARINGS AND COORDINATES
- THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM NAD83, ZONE 5, EPOCH 2010.00 AS DETERMINED LOCALLY BY GPS TIES TO CONTINUOUS OPERATING REFERENCE STATIONS (CORS) TOST, SAID COORDINATE DERIVED FROM GEODETIC VALUES PUBLISHED BY THE NATIONAL GEODETIC SURVEY (NGS).
3. ELEVATIONS
- THE VERTICAL DATUM OF THIS SURVEY IS NAVD88 PER TIES TO LOCAL CONTROL POINTS 1, 4 AND 8, ESTABLISHED BY RIGHT ANGLE SURVEY AND PROVIDED TO ECG BY THE PLEASANT VALLEY SCHOOL DISTRICT.
4. UTILITIES
- SURFACE UTILITY FEATURES SHOWN HEREON WERE LOCATED AS A PART OF THE FIELD SURVEY PERFORMED BY ECG BASED ON VISIBILITY ON THE DATE OF SURVEY. NO RESEARCH OR MAPPING OF SUBSURFACE UTILITIES HAS BEEN PERFORMED.

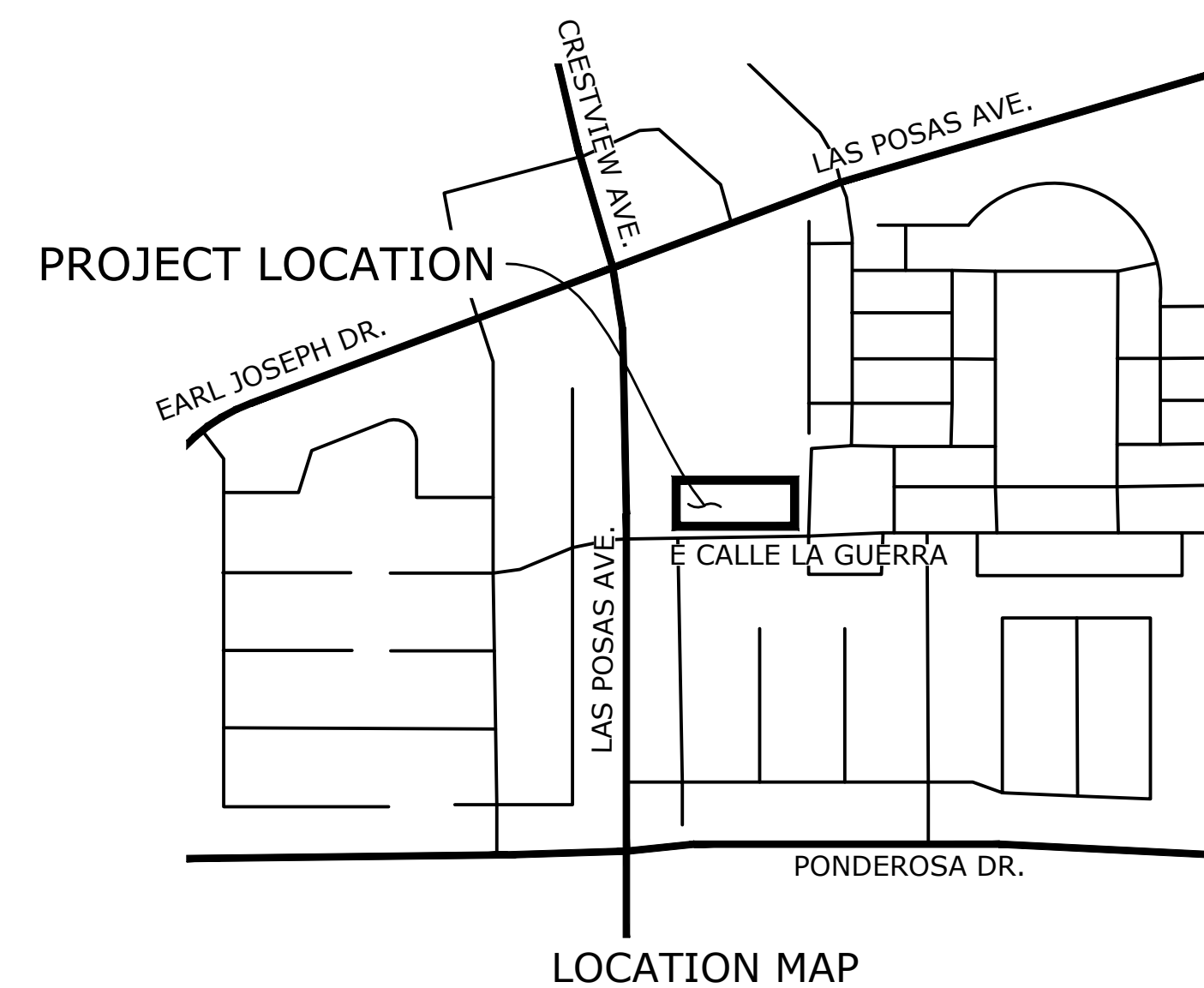


SHEET INDEX

SHEET NO.	DESCRIPTION
01	TITLE SHEET
02	DEMOLITION PLAN
03	GRADING PLAN
04	SIGNING AND STRIPING PLAN
05	HORIZONTAL CONTROL PLAN
06	DETAILS SHEET
07	DETAILS SHEET

EXISTING UTILITY NOTES

1. THE GENERAL CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AND NOTIFY APPROPRIATE UTILITY AGENCIES TO VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY EXCAVATION.
2. THE GENERAL CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES, POINT OF CONNECTIONS, AND CROSSINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DISTRICT REPRESENTATIVE.
3. THE LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY; ALL UTILITIES MAY NOT BE SHOWN.
4. SOME IRRIGATION PIPING AND ELECTRICAL CONDUIT LOCATIONS AND SIZES ARE UNKNOWN AND NOT IDENTIFIED HEREON.
5. SURFACE UTILITIES SHOWN HEREON HAVE BEEN COMPILED FROM RECORD INFORMATION GATHERED FROM VARIOUS SOURCES. THE SUBSURFACE INFORMATION, INCLUDING LOCATION, SIZE, AND CAPACITY, IS AN ESTIMATION BASED ON AVAILABLE DATA AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS, ENCOMPASS CONSULTANT GROUP DOES NOT WARRANT THE ACCURACY OF COMPLETENESS OF SAID RECORD INFORMATION.
6. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, UNDERSTANDS THAT THEY AGREE TO ASSUME LIABILITY, AND AGREE TO HOLD THE UNDERSIGNED HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF ANY UTILITY OR STRUCTURE NOT SHOWN OR REPORTED TO THE UNDERSIGNED, NOT INDICATED ON THE RECORDS PROVIDED, LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITY OR STRUCTURE CONCERNED BEFORE STARTING TO WORK.
7. THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICES TO BUILDINGS OR OTHER STRUCTURES INTENDED TO REMAIN IN OPERATIONAL SERVICE DURING THE COURSE OF CONSTRUCTION.



ABBREVIATIONS

PER SSPWC SECTION 1-3 AND SPPWC STANDARD
PLAN 100-1 UNLESS OTHERWISE NOTED HEREON

A.C.	ASPHALT CONCRETE
ADA	AMERICANS WITH DISABILITIES ACT
ARCH.	ARCHITECT
BC	BEGIN CURVE
BCKR	BEGIN CURVE RETURN
BDY	BOUNDARY
BEG	BEGIN
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BOT	BOTTOM OF PIPE
BVC	BEGIN VERTICAL CURVE
BW	BOTTOM OF WALL
B/W	BETWEEN
CB	CATCH BASIN
CC	CURB FACE
CFS	CUBIC FEET PER SECOND
C.L. or $\mathcal{C}_L$	CENTERLINE
CL	CLASS
CLF	CHAIN LINK FENCE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
DBL	DOUBLE
DI	DROP INLET
DIA	DIAMETER
DWG	DRAWING
EBA	ENCAUSTIC IRON, INCA.
EC	END CURVE
ECR	END CURB RETURN
ELEC	ELECTRIC
ELEV	ELEVATION
ELY	EASTERLY
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EV	END VERTICAL CURVE
FFC	FINISH FLOOR
FG	FINISH GRADE
FL	FLOWLINE
FS	FINISH SURFACE
FT/S	FEET PER SECOND
FUT	FUTURE
GB	GRADE BREAK
GM	GAS METER
GV	GAS VALVE
HGL	HYDRAULIC GRADE LINE
HP	HIGH POINT
HW	HEADWALL
ICV	IRIGATION CONTROL VALVE
IN	INVERT
IRR	IRRIGATION
LAT	LATERAL
LF	LINEAR FEET
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MOC	MIDDLE OF CURVE
NLY	NORTHERLY
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CURB OR ON CURVE
O/C	ON CENTER
OHW	OVERHEAD WIRE
PB	PULL BOX
P.C.C.	PORTLAND CEMENT CONCRETE PAVEMENT
P.E.	POINT OF COMPOUND CURVATURE
P.L.	POLYETHYLENE
PL	PROPERTY LINE
PMC	PROCESSED MISC. BASE
PRC	POINT OF REVERSE CURVATURE
PT	POINT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
RET	RETAINING
R.O.W.	RIGHT OF WAY
RT	RIGHT
RW	RECYCLED WATER
R/W	RIGHT OF WAY
SC	SOUTHERN CALIFORNIA EDISON
S/O	SEWER CLEAN OUT
SD or S.D.	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDR	STANDARD DIMENSION RATIO
SH	SHEET
SLY	SOUTHERLY
SMH	SEWER MANHOLE
SPWPC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
SS	SEWER
SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
STD	STANDARD
STRU	STRUCTURE
SW	SIDEWALK
TC	TOP OF CURB
TEL	TELEPHONE
TG	TOP OF GRATE
TI	TRAFFIC INDEX
TMH	TELEPHONE MANHOLE
TOE	TOP OF SLOPE
TOP	TOP OF SLOPE OR PIPE
TRANS	TRANSITION
TP	TOP OF WALL
TW	TYPICAL
U.N.O.	UNLINED NOT OTHERWISE NOTED
VAR	VARIABLES/VARIABLE
VLV	VALVE
W/LY	WESTERLY
WM	WATER METER
WSEL	WATER SURFACE ELEVATION
WV	WATER VALVE
YR	YEAR

BID SET DATE: 02-04-2026



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

REVISIONS			
MARK	DATE	DESCRIPTION	BY

REVIEWED BY: _____

_____ DATE _____

_____ DATE _____



TRISTAN J. SANTOS DATE: 02/02/2026
PROJECT ENGINEER
R.C.E.

FB-26-03 ASPHALT PARKING LOT REMOVAL AND REPLACEMENT WITH ADA PATHWAY UPGRADES LAS POSAS ELEMENTARY SCHOOL TITLE SHEET							
75 E CALLE LA GUERRA, CAMARILLO, CA 93010							
SCALE: <u>HORIZ. AS NOTED</u> VERT. <u> </u>							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">WORK ORDER</td> <td style="padding: 2px;">0696</td> </tr> <tr> <td style="padding: 2px;">DRAWN BY:</td> <td style="padding: 2px;">CPB</td> </tr> <tr> <td style="padding: 2px;">CHECKED BY:</td> <td style="padding: 2px;">TJS</td> </tr> </table>	WORK ORDER	0696	DRAWN BY:	CPB	CHECKED BY:	TJS	SHEET NO. 1 OF 7
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CHECKED BY:	TJS						

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GENERAL NOTES (DEMOLITION PLAN)

- DEMOLITION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO REMOVE EXISTING STRUCTURES AND ALL OTHER OBJECTIONABLE MATERIAL FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE REMOVAL OF MATERIAL FROM THE SITE AND ALL OBJECTIONABLE MATERIALS COVERED BY THESE PLANS. DISPOSAL OF MATERIALS SHALL BE DONE IN A SAFE AND LEGAL MANNER AND SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL CONTINUOUSLY COORDINATE WITH THE DISTRICT'S REPRESENTATIVE TO SALVAGE, RELOCATE, AND/OR PROTECT ANY EXISTING ITEMS OR MATERIALS AS DIRECTED.
- PRIOR TO COMMENCING DEMOLITION OPERATIONS, THE CONTRACTOR SHALL COORDINATE SEQUENCING OF WORK IN ADVANCE WITH THE DISTRICT'S REPRESENTATIVE.
- THE CONTRACTOR SHALL CONTINUOUSLY CLEAN AND REMOVE DEMOLISHED MATERIALS FROM THE SITE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. DO NOT ALLOW MATERIALS TO ACCUMULATE ON SITE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE ANY ITEMS DAMAGED DURING THE DEMOLITION PROCESS THAT ARE INTENDED TO REMAIN AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PLANS IN THEIR ENTIRETY PRIOR TO PROJECT DEMOLITION. PLAN DISCREPANCIES OR DEFICIENCIES SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
- ALL EXISTING UTILITIES TO BE PROTECTED IN PLACE UNLESS OTHERWISE SHOWN. CONTRACTOR TO COORDINATE WITH ALL NECESSARY UTILITY COMPANIES.
- REFER TO LANDSCAPE DRAWINGS FOR ANY REQUIRED PLANTING & IRRIGATION DEMOLITION AND TREE REMOVAL. ALL AREAS TO RECEIVE LANDSCAPING TO BE CLEARED, GRUBBED, AND REMOVE EXISTING IRRIGATION AS NECESSARY.
- CONCRETE SIDEWALKS WILL BE REMOVED TO THE NEAREST CONSTRUCTION OR EXPANSION JOINT TO THE LIMITS OF REMOVAL AS SHOWN ON THE PLANS. CONTRACTOR TO PROVIDE SAWCUT LOCATION PLAN FOR APPROVAL BY DISTRICT'S REPRESENTATIVE.
- ADJUST EXISTING UTILITY LIDS, GRATES, COVERS TO FINISHED GRADE.
- DEMOLITION SHALL BE CONDUCTED TO LIMITS SHOWN & AS REQUIRED FOR NEW WORK.
- THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT AND SUPPORT THE UTILITIES OR SUBSTRUCTURES FOUND AT THE SITE WHETHER OR NOT SHOWN ON THE PLANS OR EXPOSED BY CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK (72-HOURS NOTICE REQUIRED). PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 8-1-1. CONTRACTOR SHALL PROTECT ALL EXISTING PROPERTIES FROM DAMAGE. CONTRACTOR SHALL RESTORE ALL EXISTING SURFACE AND SUBSURFACE FACILITIES DISTURBED BY CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, TREES, LANDSCAPING, IRRIGATION, TRAILS, ASPHALT CONCRETE ROAD PAVING, CURB AND GUTTER, CROSS GUTTER, SIDEWALK, AND UTILITIES. POT HOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ADVISE DISTRICT'S REPRESENTATIVE OF CONFLICTS. CONTACT PURVEYORS OF UTILITY SYSTEMS SUCH AS ELECTRIC, TELEPHONE, CABLE TV, GAS OR OTHERS TO RELOCATE FACILITIES TO ALLOW FOR THE CONSTRUCTION SHOWN ON THESE PLANS. EXCEPT AS OTHERWISE SHOWN THE DEPTHS OF UTILITIES ARE NOT KNOWN.
- UNLESS OTHERWISE NOTED ON DRAWINGS, ALL EXISTING WIRING, CONDUITS, JUNCTION BOXES AND OTHER ELECTRICAL DEVICES IN AREAS WHERE NEW WORK OCCURS SHALL BE REMOVED, EXCEPT WHEN SUCH DEVICES ARE REQUIRED TO MAINTAIN SERVICES TO OTHER AREAS, OR OTHERWISE NOTED. IN SUCH CASES, CONTRACTOR SHALL RELOCATE THESE DEVICES PER INSTRUCTIONS BY DISTRICT'S REPRESENTATIVE.

DEMOLITION NOTES

- | | | | |
|----|--|----|---|
| 1 | EXISTING ASPHALT CONCRETE TO BE REMOVED. | 13 | EXISTING LIGHT POLE TO BE REMOVED AND RELOCATED. CONCRETE BASE TO BE DEMOLISHED AND REPLACED WITH TRAFFIC RATED PULL BOX. FEEDER TO BE INTERCEPTED AND EXTENDED. SEE SHEET "3" GRADING PLAN FOR PROPOSED LOCATIONS AND DETAIL "1" ON SHEET 7 FOR ELECTRICAL IMPROVEMENTS. |
| 2 | EXISTING SIGNS TO BE REMOVED AND REPLACED. SEE SIGNING AND STRIPING PLAN. | 14 | EXISTING FLAG POLE TO BE PROTECTED IN PLACE. |
| 3 | EXISTING SPEED BUMPS TO BE REMOVED. | 15 | EXISTING IRRIGATION PULL BOX TO BE REMOVED. SEE IRRIGATION PLAN FOR NEW LOCATIONS. |
| 4 | EXISTING CONCRETE TO BE REMOVED. | 16 | EXISTING IRRIGATION LINES TO BE REMOVED TO LIMITS SHOWN. SEE LANDSCAPE PLANS FOR NEW IRRIGATION LINE LOCATIONS. |
| 5 | EXISTING LANDSCAPING SURFACE TO BE CLEARED AND GRUBBED. REFER TO LANDSCAPE PLANS FOR ADDITIONAL AREAS. | 17 | EXISTING LANDSCAPING TO BE PROTECTED IN PLACE. |
| 6 | EXISTING CURB TO BE REMOVED. | 18 | EXISTING PARKWAY DRAIN TO BE REMOVED. |
| 7 | EXISTING TREE TO BE PROTECTED IN PLACE. | 19 | EXISTING UTILITY LINE TO BE PROTECTED IN PLACE. |
| 8 | EXISTING LIGHT/POLE AND BASE TO BE PROTECTED IN PLACE. | 20 | EXISTING UTILITY VAULT TO BE PROTECTED IN PLACE. |
| 9 | EXISTING CURB WALL AND FENCE TO BE REMOVED. | | |
| 10 | EXISTING ASPHALT TO BE PROTECTED IN PLACE. | | |
| 11 | EXISTING TREE STUMP AND ROOT TO BE REMOVED. | | |
| 12 | EXISTING CATCH BASIN TO BE PROTECTED IN PLACE. | | |

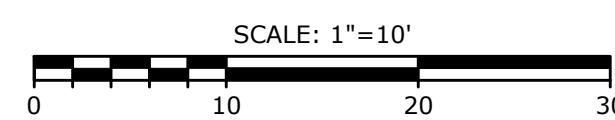
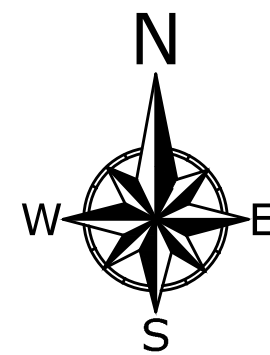
LEGEND

	ASPHALT CONCRETE PAVEMENT REMOVAL
	CONCRETE REMOVAL
	LANDSCAPING REMOVAL
	OVERHEAD WIRES
	PROPOSED SAWCUT LINE
	EXISTING SANITARY SEWER
	EXISTING GAS LINE
	EXISTING DOMESTIC WATER
	EXISTING IRRIGATION WATER
	EXISTING STORM DRAIN
	EXISTING ELECTRICAL LINE
	EXISTING CHAIN LINK FENCE
	EXISTING WALL

BID SET DATE: 02-04-2026

CAUTION: UNDERGROUND STRUCTURES

ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE DISTRICT OR THOSE SHOWN ON RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, UNDERSTANDS THAT THEY AGREE TO ASSUME LIABILITY, AND AGREE TO HOLD THE UNDERSIGNED HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED, NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, OR LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING TO WORK.



REVISIONS			
MARK	DATE	DESCRIPTION	BY
REVIEWED BY: _____ DATE _____			
PROJECT ENGINEER _____ DATE _____			



TRISTAN J. SANTOS DATE: 02/02/2026
PROJECT ENGINEER
R.C.E.

FB-26-03 ASPHALT PARKING LOT REMOVAL AND REPLACEMENT WITH ADA PATHWAY UPGRADES
LAS POSAS ELEMENTARY SCHOOL
DEMOLITION PLAN
75 E CALLE LA GUERRA, CAMARILLO, CA 93010

SCALE: HORIZ. _____ VERT. _____		SHEET NO. <u>2</u> OF <u>7</u>
WORK ORDER	0696	
DRAWN BY:	CPB	
CHECKED BY:	TJS	

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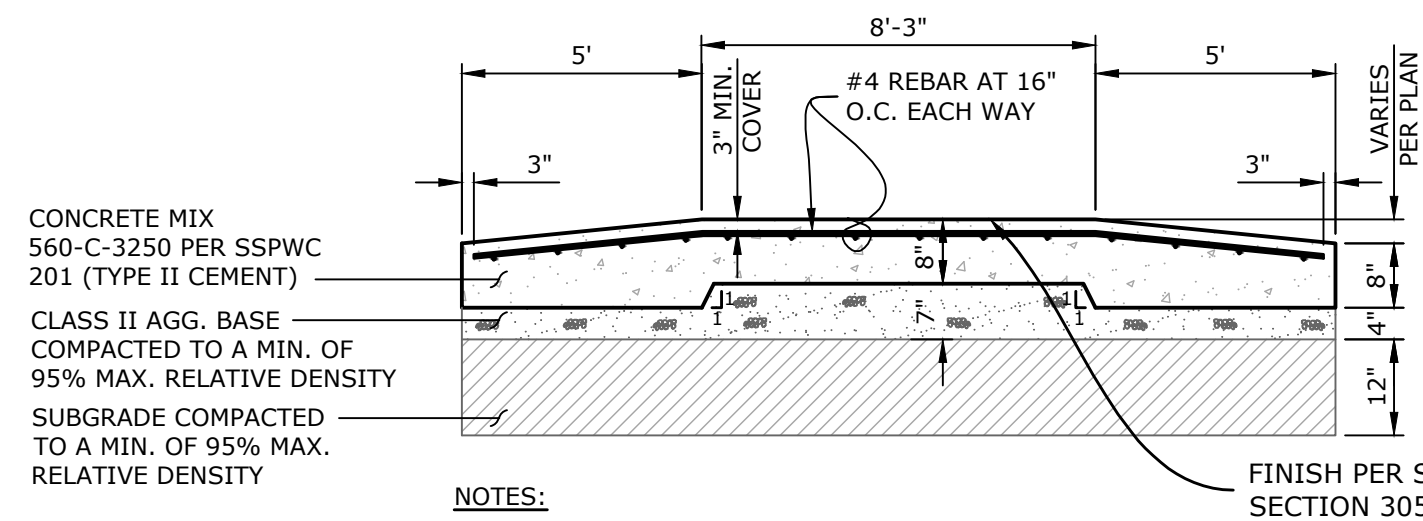
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LEGEND

	PROPOSED ASPHALT CONCRETE PAVEMENT		PROPOSED IRRIGATION LINE
	PROPOSED LANDSCAPING		STORM DRAIN INLET
	PROPOSED PC CONCRETE		EXISTING OVER HEAD WIRE
	PROPOSED GRAVEL FLOW SPREADER		EXISTING ELECTRICAL LINE
	SAWCUT LINE		EXISTING GAS LINE
	EXISTING FENCE		EXISTING WATER LINE
	GRADE BREAK		EXISTING STORM DRAIN LINE
	EXISTING MINOR CONTOURS		EXISTING FIREWATER LINE
	EXISTING MAJOR CONTOURS		EXISTING SEWER LINE
	PROPOSED MINOR CONTOURS		EXISTING COMMUNICATION LINE
	PROPOSED MAJOR CONTOURS		PROPOSED ELEVATION
	PROPOSED FLOWLINE		EXISTING ELEVATION
			PROPOSED GRADE

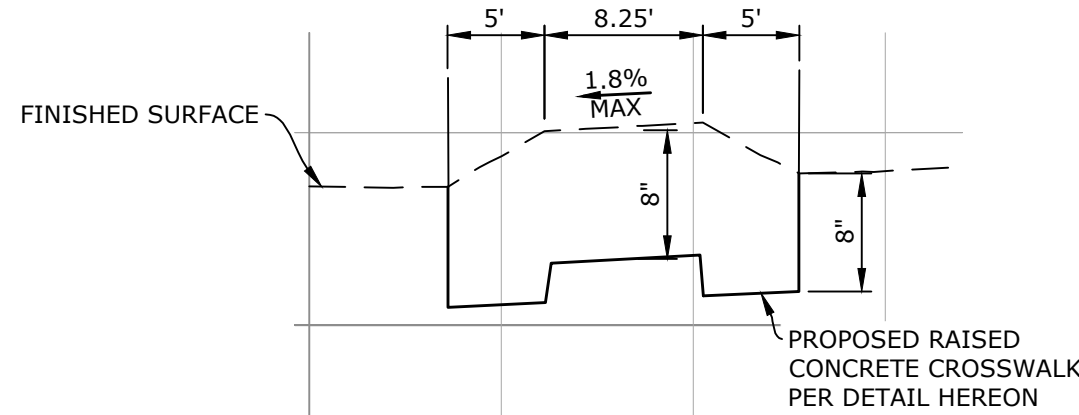
CONSTRUCTION NOTES

- CONSTRUCT PARKING STALL ASPHALT CONCRETE PAVEMENT PER DETAIL "A", SHEET 6.
- CONSTRUCT DRIVE AISLE ASPHALT CONCRETE PAVEMENT PER DETAIL "B", SHEET 6.
- CONSTRUCT CONCRETE WALKWAY PER DETAIL "C", SHEET 6.
- CONSTRUCT 6" CONCRETE CURB AND GUTTER PER SPPWC STD PLATE 120-3, A2-6(150).
- CONSTRUCT 6" CONCRETE CURB PER SPPWC STD PLATE 120-3, A1-6(150).
- CONSTRUCT LANDSCAPING PER LANDSCAPE ARCHITECTURAL PLANS.
- CONSTRUCT TRANSITION FROM FULL HEIGHT 6" TO ZERO INCH CURB HEIGHT. TRANSITION LENGTH PER PLAN.
- CONSTRUCT IRRIGATION UTILITIES AND SLEEVING PER LANDSCAPE ARCHITECTURAL PLANS. SLEEVING SHALL BE 2" SCH. 40 PVC UNLESS OTHERWISE NOTED.
- CONSTRUCT ADA PARKING STALL PER SIGNING AND STRIPING PLAN AND DETAIL "D", SHEET 6.
- CONSTRUCT PARKING STALL PER SIGNING AND STRIPING PLAN.
- CONSTRUCT SPEED HUMP PER DETAIL "E", SHEET 6.
- CONSTRUCT WHEEL STOP PER DETAIL "G", SHEET 6.
- CONSTRUCT ELEVATED CONCRETE WALKWAY PER DETAIL HEREON.
- INSTALL EXISTING LIGHT POLE ON NEW CONCRETE BASE WITH NEW ANCHOR BOLTS AND NEW FEEDER. RELOCATION PER SHEET 2. REFER TO DETAIL "I", SHEET 7.
- CONSTRUCT 0" CURB.
- CONSTRUCT ADA RAMP PER SPPWC STD PLATE 111-5, CASE B TYPE 1.
- CONSTRUCT 4" CURB PER SPPWC STD PLATE 120-3 A1-6(150), MODIFIED.
- CONSTRUCT 12" WIDE BY 6" DEEP GRAVEL FLOW SPREADER PER DETAIL "M", SHEET 7. INSTALL PAVEMENT HEADER ON BOTH SIDES OF GRAVEL PER DETAIL "M", SHEET 7.



RAISED CROSSWALK DETAIL

SCALE: 1"=4' HORIZ.
1"=2' VERT.



* CROSSWALK SHALL BE RAISED 3" ABOVE SURROUNDING FINISHED SURFACE.
FINISH SURFACE ELEVATIONS PER PLAN.

TYPICAL SECTION A-A

SCALE: 1"=10' HORIZ
1"=1' VERT

BID SET DATE: 02-04-2026

REVISIONS			
MARK	DATE	DESCRIPTION	BY
REVIEWED BY:		DATE	
PROJECT ENGINEER		DATE	



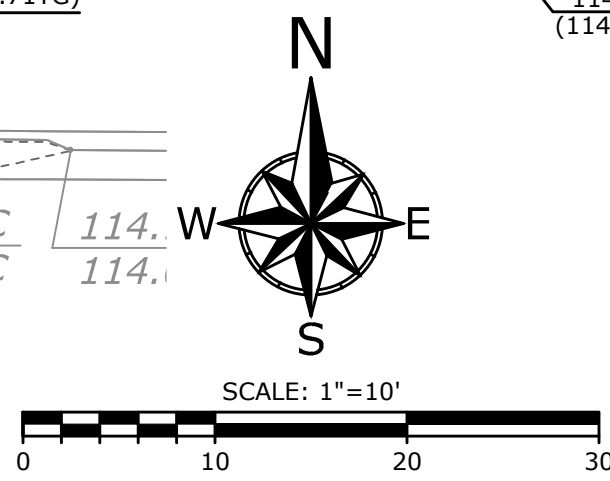
TRISTAN J. SANTOS DATE: 02/02/2026
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FB-26-03 ASPHALT PARKING LOT REMOVAL AND
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LAS POSAS ELEMENTARY SCHOOL
GRADING PLAN
75 E CALLE LA GUERRA, CAMARILLO, CA 93010

SCALE: HORIZ. 1"=10' VERT. 1"=1'

WORK ORDER 0696
DRAWN BY: CFB
CHECKED BY: TJS

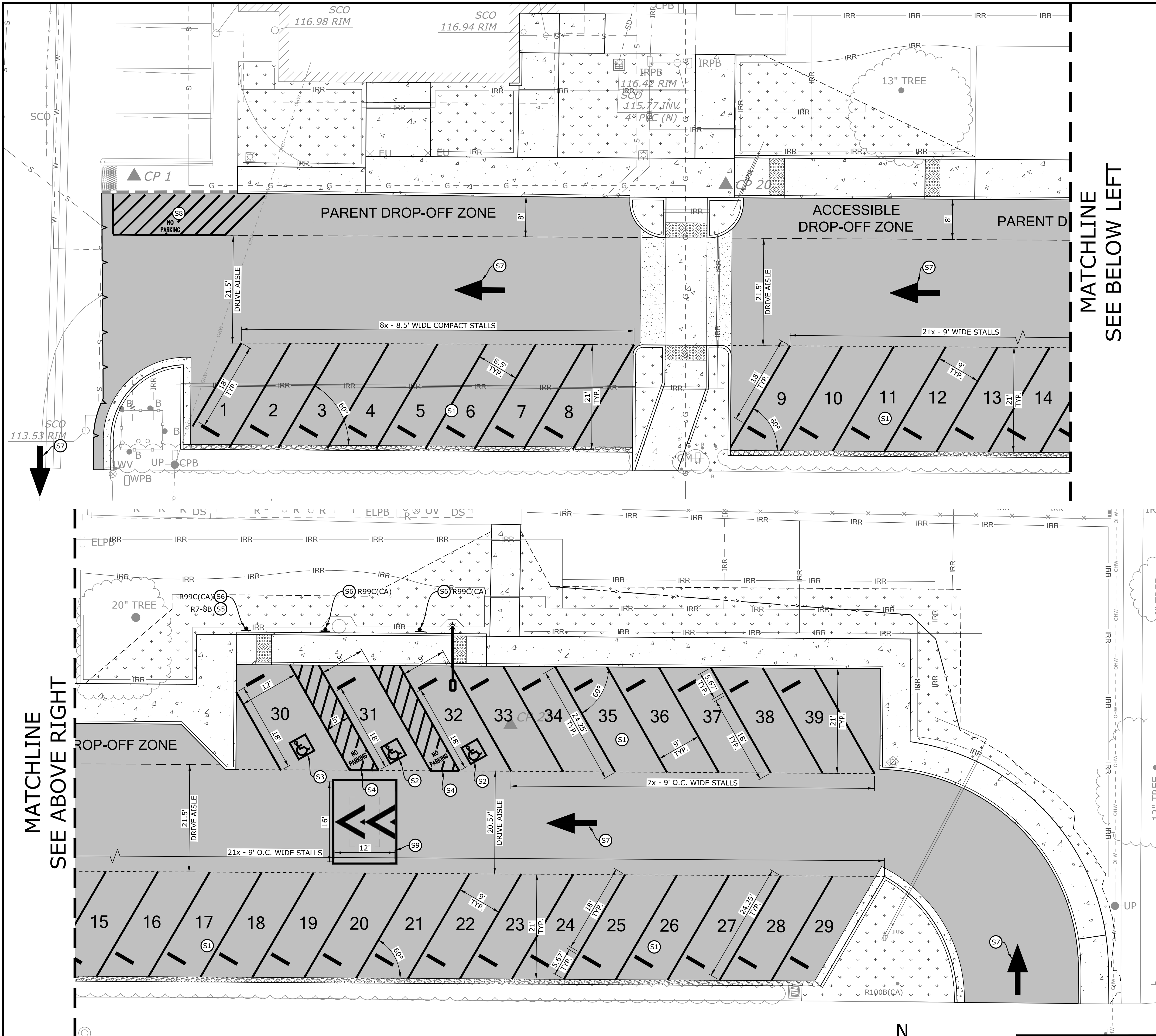
SHEET NO. 3 OF 7



DRAWING: n:\projects\0696\engineering\acad\improvements\2026\parking lot\0696_parking lot.sbs 2026.dwg



Know what's below.
Call before you dig.



SIGNING & STRIPING CONSTRUCTION NOTES

- (S1) FURNISH AND INSTALL 4" WIDE WHITE STRIPE FOR CAR PARKING STALL PER SECTION 11B-502 OF THE 2022 CALIFORNIA BUILDING CODE. TYPICAL CAR PARKING STALL SHALL BE 9'-0" WIDE AND 18'-0" LONG FROM END TO WHEEL STOP, UNLESS NOTED OTHERWISE PER PLAN. STALL NUMBERS FOR REFERENCE ONLY.
- (S2) FURNISH AND INSTALL ACCESSIBLE CAR PARKING STALL PER SECTION 11B-502 OF THE 2022 CALIFORNIA BUILDING CODE AND DETAIL "D" ON SHEET 6.
- (S3) FURNISH AND INSTALL ACCESSIBLE VAN PARKING STALL PER SECTION 11B-502 OF THE 2022 CALIFORNIA BUILDING CODE AND DETAIL "D" ON SHEET 6.
- (S4) FURNISH AND INSTALL ACCESSIBLE AISLE PER SECTION 11B-502 OF THE 2022 CALIFORNIA BUILDING CODE AND PER DETAIL "D" ON SHEET 6.
- (S5) FURNISH AND INSTALL PROPOSED SIGN(S) PER PLAN. MINIMUM CLEARANCE FROM BOTTOM OF SIGN TO ADJACENT EXISTING GRADE SHALL BE 7'-0" PER DETAIL "F" ON SHEET 6. ADJUST ANY EXISTING SIGN(S) TO PROVIDE MINIMUM CLEARANCE FROM THE BOTTOM OF THE LOWEST SIGN TO ADJACENT EXISTING GRADE.
- (S6) FURNISH AND INSTALL PROPOSED SIGN AND POST PER PLAN. MINIMUM CLEARANCE FROM BOTTOM OF SIGN TO ADJACENT EXISTING GRADE SHALL BE 7'-0" PER DETAIL "F" ON SHEET 6.
- (S7) FURNISH AND INSTALL WHITE TYPE I ARROW (10'-0") PER CALTRANS STANDARD PLAN A24A.
- (S8) FURNISH AND INSTALL 4" WIDE WHITE DIAGONAL STRIPE 36" O.C. AREAS WIDER THAN 15' SHALL BE MARKED WITH THE WORDS "NO PARKING" PER DETAIL "H" ON SHEET 6.
- (S9) FURNISH AND INSTALL 4" SPEED HUMP PER DETAIL "E" ON SHEET 6. FURNISH AND INSTALL 4" WIDE STRIPE AROUND BASE OF SPEED HUMP TO MATCH PARKING STALL STRIPING.

PARKING STALL RATIO (LOCATION #1 ONLY)

TOTAL NUMBER OF PARKING SPACES PROVIDED	MINIMUM NUMBER OF ADA SPACES REQUIRED	ADA SPACES PROVIDED (CAR)	ADA VAN SPACES PROVIDED (VAN)
39	2	2	1

NOTE: PER CBC 11B-208

DRAWING LEGEND

- EXISTING STRIPING
- EXISTING ROADSIDE SIGN(S). PROTECT IN PLACE.

WORK LEGEND

- | INSTALL | REMOVE | STRIPING, PAVEMENT, MARKING, OR SIGN |
|---|--------|--------------------------------------|
| TYPE I ARROW (10'-0") PER CALTRANS STANDARD PLAN A24A | | |
| SIGN AND POST | | |
| SIGN ON EXISTING POST | | |
| SIGN ON EXISTING STREETLIGHT POST | | |

SIGN LEGEND (THIS SHEET ONLY)



R99C(CA)
12"x24"



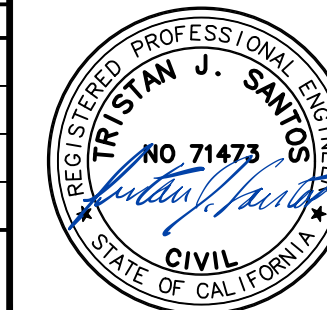
R7-8b
12"x6"



R100B(CA)
24"x24"

BID SET DATE: 02-04-2026

REVISIONS			
MARK	DATE	DESCRIPTION	BY
REVIEWED BY:		DATE	DATE



TRISTAN J. SANTOS
PROJECT ENGINEER
R.C.E.

DATE: 02/02/2026

FB-26-03 ASPHALT PARKING LOT REMOVAL AND REPLACEMENT WITH ADA PATHWAY UPGRADES
LAS POSAS ELEMENTARY SCHOOL
SIGNING AND STRIPING PLAN
75 E CALLE LA GUERRA, CAMARILLO, CA 93010

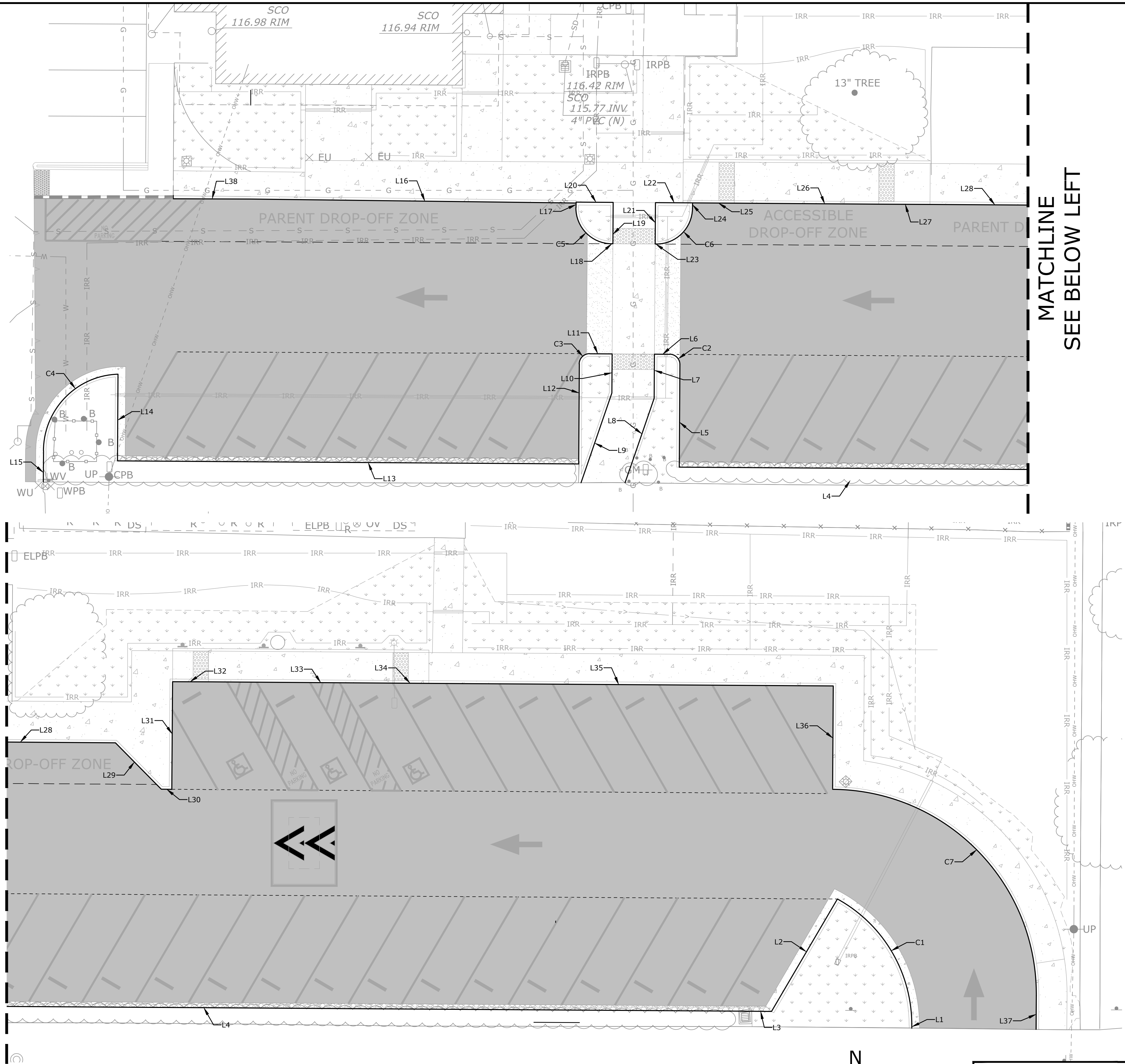
SCALE: HORIZ. 1"=10'	VERT. 1"=10'
WORK ORDER 0696	
DRAWN BY: CFB	
CHECKED BY: TJS	
SHEET NO. 4 OF 7	

DRAWING: n:\projects\0696\engineering\acad\improvements\2026\parking lot\0696_parking lot_lines&curves_2026.dwg



Know what's below.
Call before you dig.

MATCHLINE
SEE ABOVE RIGHT



LINE TABLE		
LINE	LENGTH	DIRECTION
L1	0.80	N0° 22' 25"E
L2	25.40	N30° 22' 25"E
L3	5.23	N89° 37' 35"W
L4	212.09	N89° 37' 35"W
L5	20.00	N0° 22' 25"E
L6	2.98	N89° 37' 35"W
L7	8.59	N0° 22' 25"E
L8	11.61	N18° 58' 55"E
L9	18.52	N18° 58' 55"E
L10	7.63	N0° 22' 25"E
L11	4.38	N89° 37' 35"W
L12	19.50	N0° 22' 25"E
L13	90.00	N89° 37' 35"W
L14	16.89	N0° 22' 25"E
L15	6.07	N0° 22' 25"E
L16	63.43	N89° 17' 58"W
L17	1.07	N0° 23' 44"E
L18	0.23	N89° 37' 12"W
L19	8.07	N0° 22' 14"E
L20	7.23	N89° 37' 35"W
L21	8.07	N0° 22' 25"E
L22	7.23	N89° 37' 35"W
L23	0.23	N89° 37' 58"W
L24	1.07	N0° 22' 02"E
L25	8.14	N89° 37' 35"W
L26	28.19	N89° 37' 35"W
L27	10.00	N89° 37' 35"W
L28	40.36	N89° 37' 35"W
L29	11.00	N44° 37' 35"W
L30	2.06	S89° 37' 35"E
L31	21.00	S0° 22' 25"W
L32	7.00	N89° 37' 35"W
L33	36.00	N89° 37' 35"W
L34	7.00	N89° 37' 35"W
L35	78.94	N89° 37' 35"W
L36	20.00	N0° 22' 25"E
L37	6.58	N0° 22' 25"E
L38	15.16	N89° 45' 52"W

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	60°49'55"	28.03	29.76
C2	90°00'00"	2.00	3.14
C3	90°00'00"	2.00	3.14
C4	87°51'22"	15.00	23.00
C5	90°00'00"	7.00	11.00
C6	90°00'00"	7.00	11.00
C7	90°00'00"	40.00	62.83



SCALE: 1"=10'

REVISIONS			
MARK	DATE	DESCRIPTION	BY
REVIEWED BY:		DATE	DATE



ECG
Encompass Consultant Group
333 N. LANTANA ST., SUITE 287, CAMARILLO, CA 93010
PHONE: 805.322.4443 WEBSITE: WWW.ECGCIVIL.COM

TRISTAN J. SANTOS DATE: 02/02/2026
PROJECT ENGINEER
R.C.E.

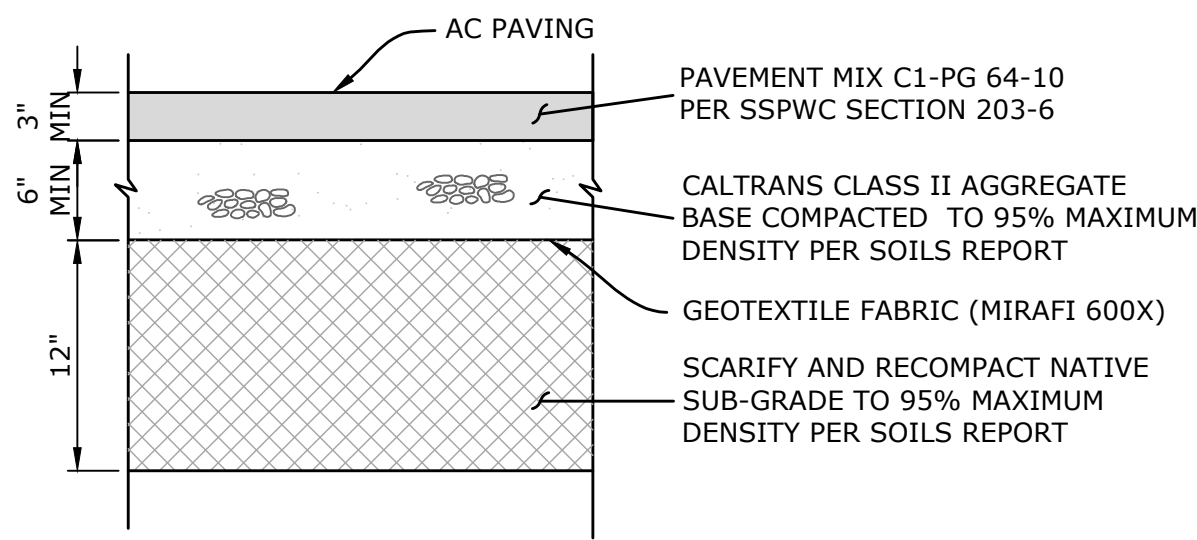
BID SET DATE: 02-04-2026

FB-26-03 ASPHALT PARKING LOT REMOVAL AND REPLACEMENT WITH ADA PATHWAY UPGRADES
LAS POSAS ELEMENTARY SCHOOL
HORIZONTAL CONTROL PLAN
75 E CALLE LA GUERRA, CAMARILLO, CA 93010

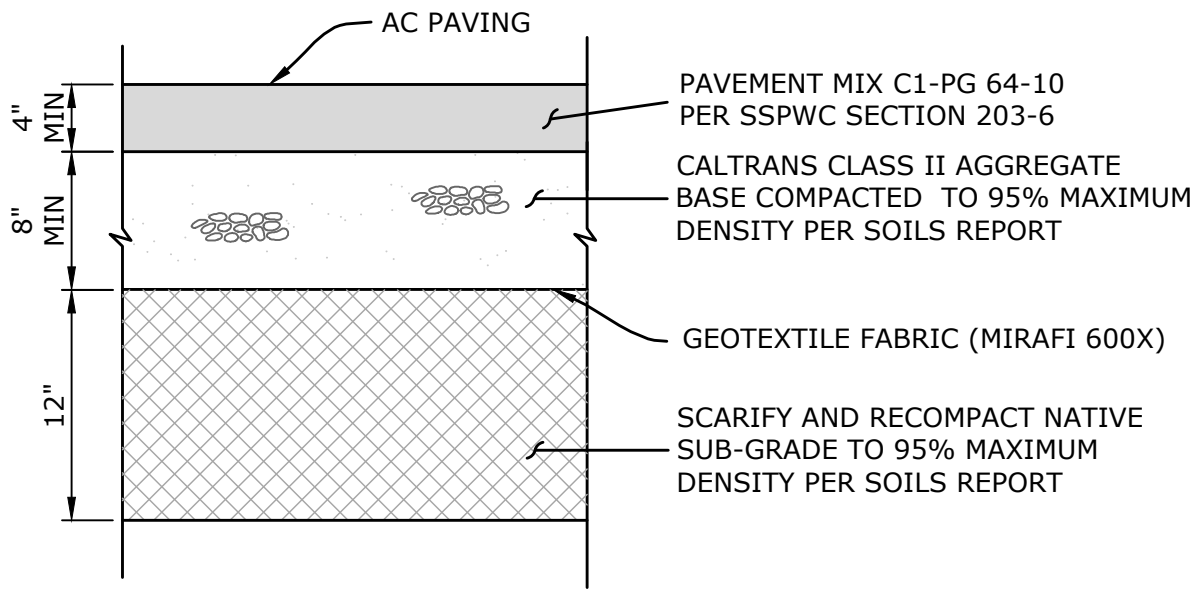
SCALE: HORIZ. 1"=10' VERT. _____

WORK ORDER	0696
DRAWN BY:	CPB
CHECKED BY:	TJS

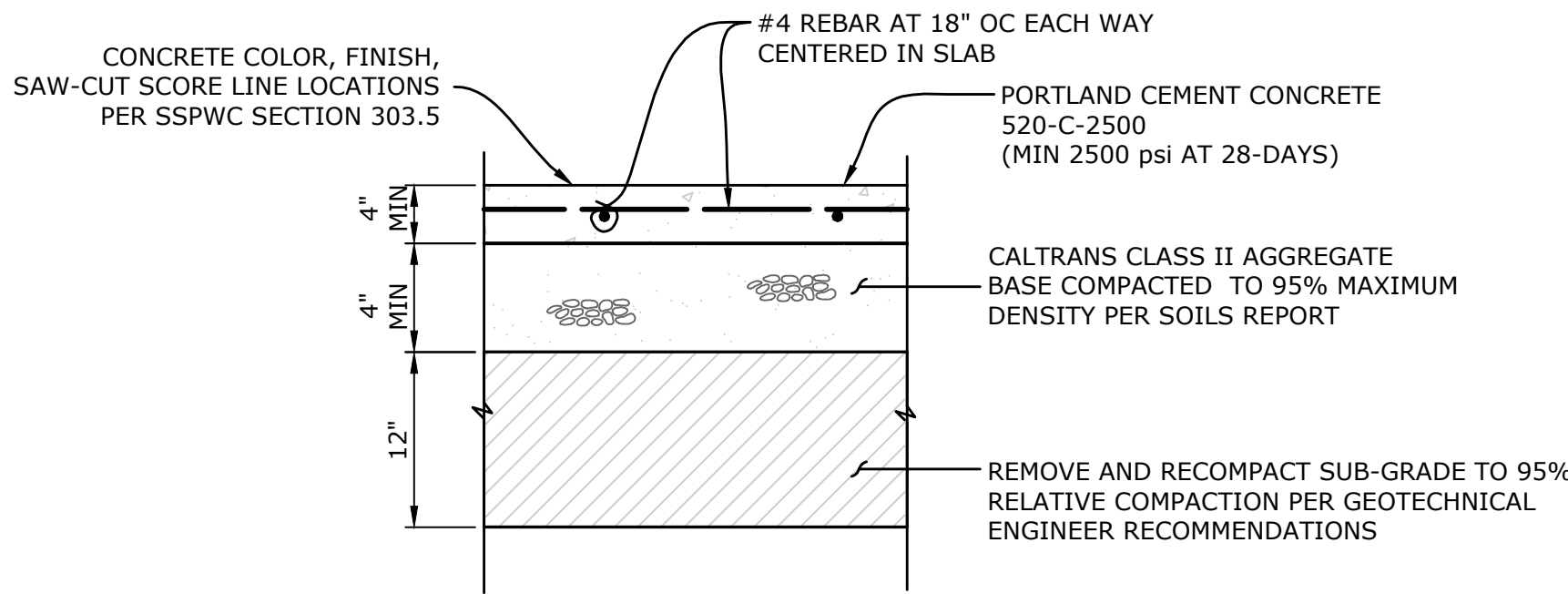
SHEET NO. 5 OF 7



PARKING STALL ASPHALT CONCRETE PAVEMENT SECTION A
SCALE: N.T.S.

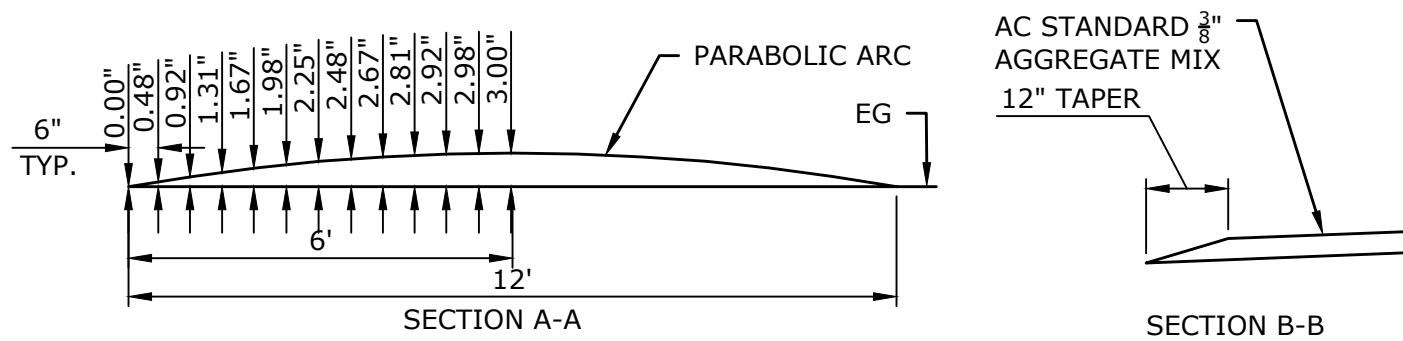
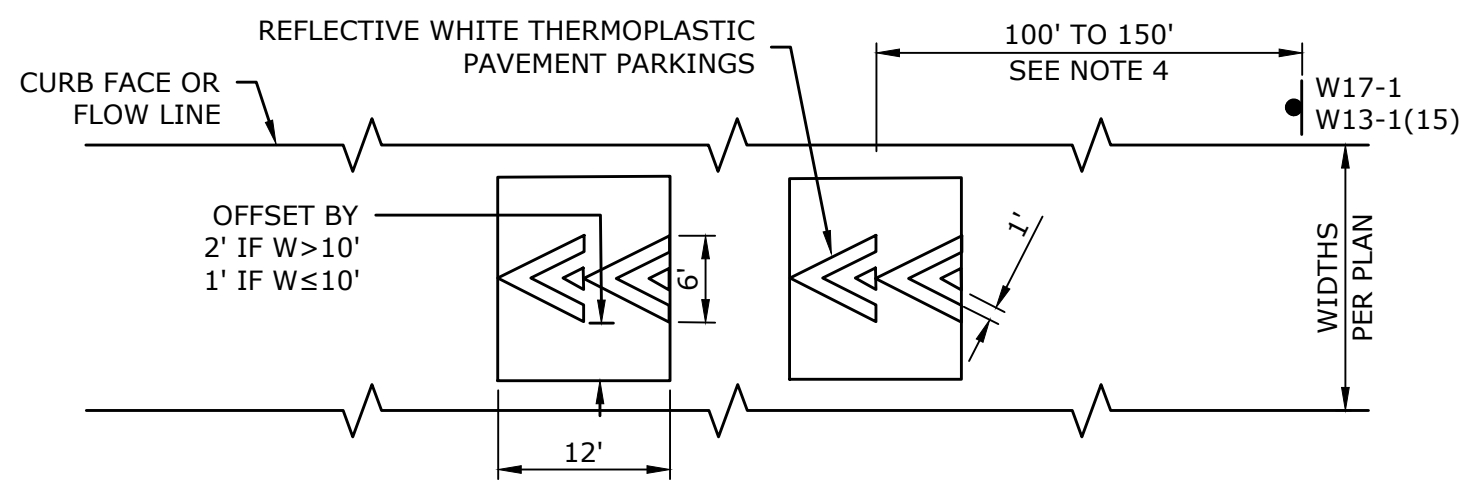


DRIVE AISLE ASPHALT CONCRETE PAVEMENT SECTION B
SCALE: N.T.S.



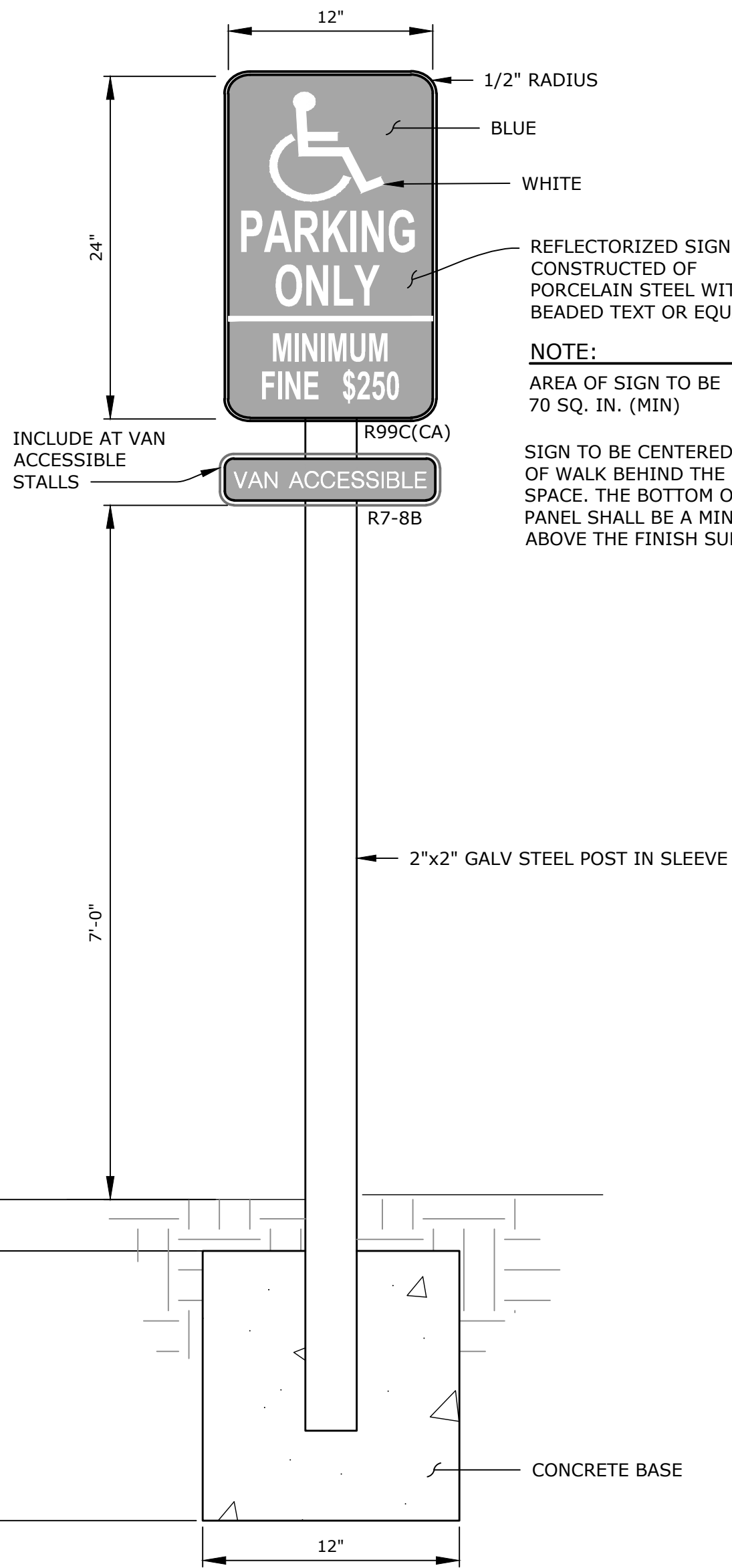
- NOTES:
- SAWCUT OR TOOLED CRACK CONTROL JOINTS AT 8' MAX O.C. E.W. PER DETAIL "J" SHEET 7.
 - CONSTRUCT EXPANSION JOINTS AT ADJACENT STRUCTURES PER DETAIL "K" SHEET 7.

CONCRETE PAVEMENT WALKWAY SECTION C
SCALE: N.T.S.

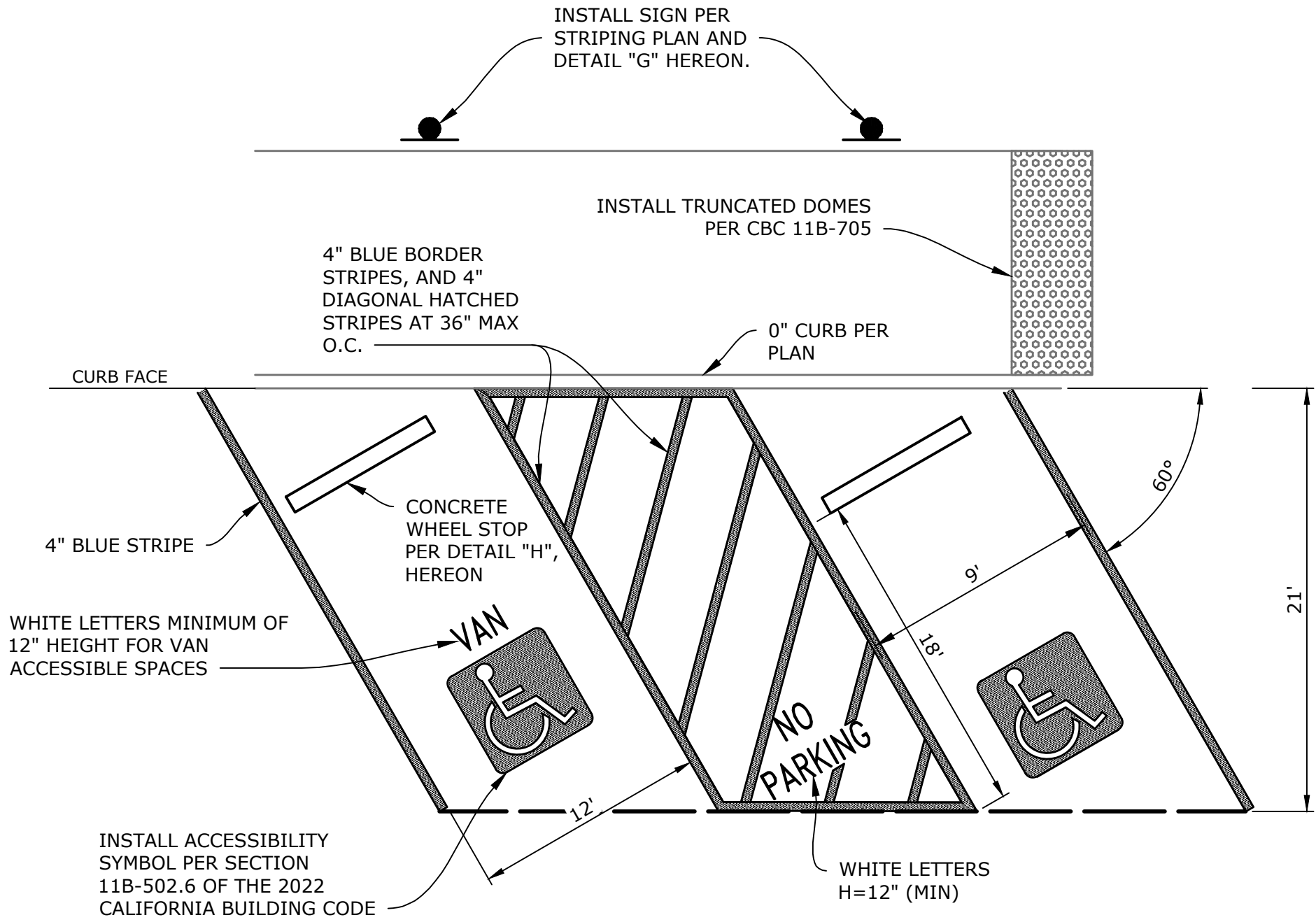


- NOTES:
- INSTALLATION SHALL CONFORM TO THE LATEST CITY OF CAMARILLO STANDARD PLANS AND CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES STANDARDS.
 - SPEED HUMPS SHALL NOT BE PLACED OVER MANHOLES, MAINTENANCE COVERS, ETC.
 - EDGE OF SPEED HUMP SHOULD BE 5' OR MORE FROM EDGE OF DRIVEWAY OR CATCH BASIN.
 - ASPHALT JOINS SHALL BE ACCOMPLISHED BY GRINDING AND FILLING A 1"x24" CUT.
 - ACCEPTABLE TOLERANCE FOR 3" HEIGHT OF THE SPEED HUMP IS $\pm \frac{1}{4}$ ".
 - FURNISH AND INSTALL 4" AROUND BASE OF SPEED HUMP TO MATCH PARKING STALL STRIPING.

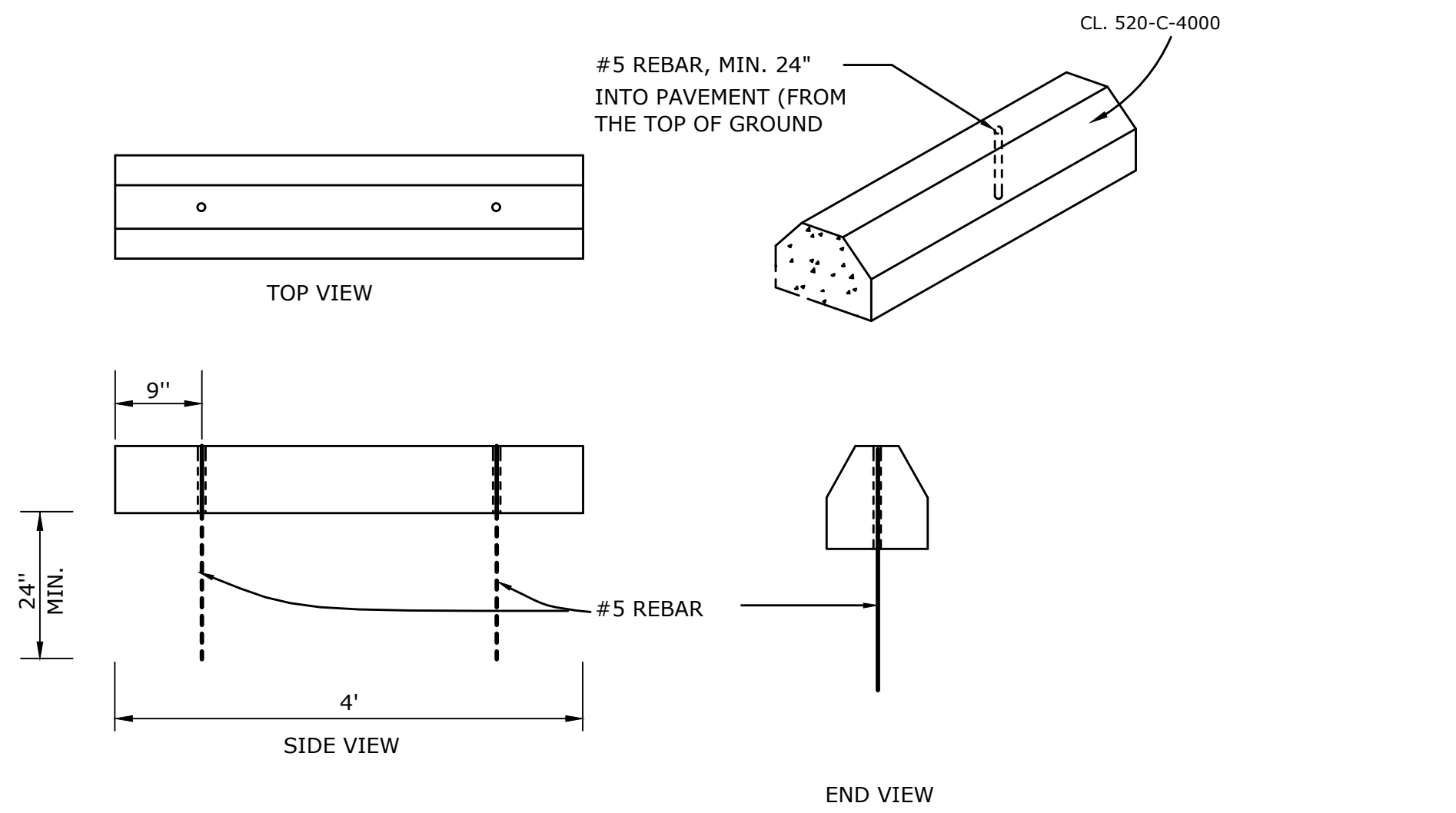
SPEED HUMP DETAIL E
SCALE: N.T.S.



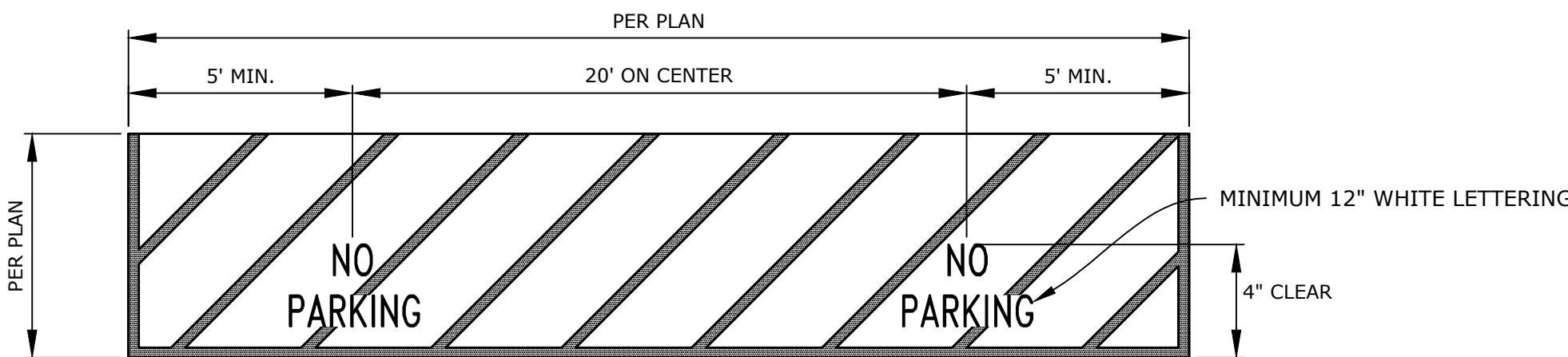
ACCESSIBLE PARKING STALL SIGN AND POST DETAIL F
SCALE: N.T.S.



ACCESSIBLE STALL DETAIL D
SCALE: N.T.S.



WHEEL STOP DETAIL G
SCALE: N.T.S.



NO PARKING ZONE STRIPING DETAIL H
SCALE: N.T.S.

REVISIONS			
MARK	DATE	DESCRIPTION	BY
REVIEWED BY:		DATE	
		DATE	



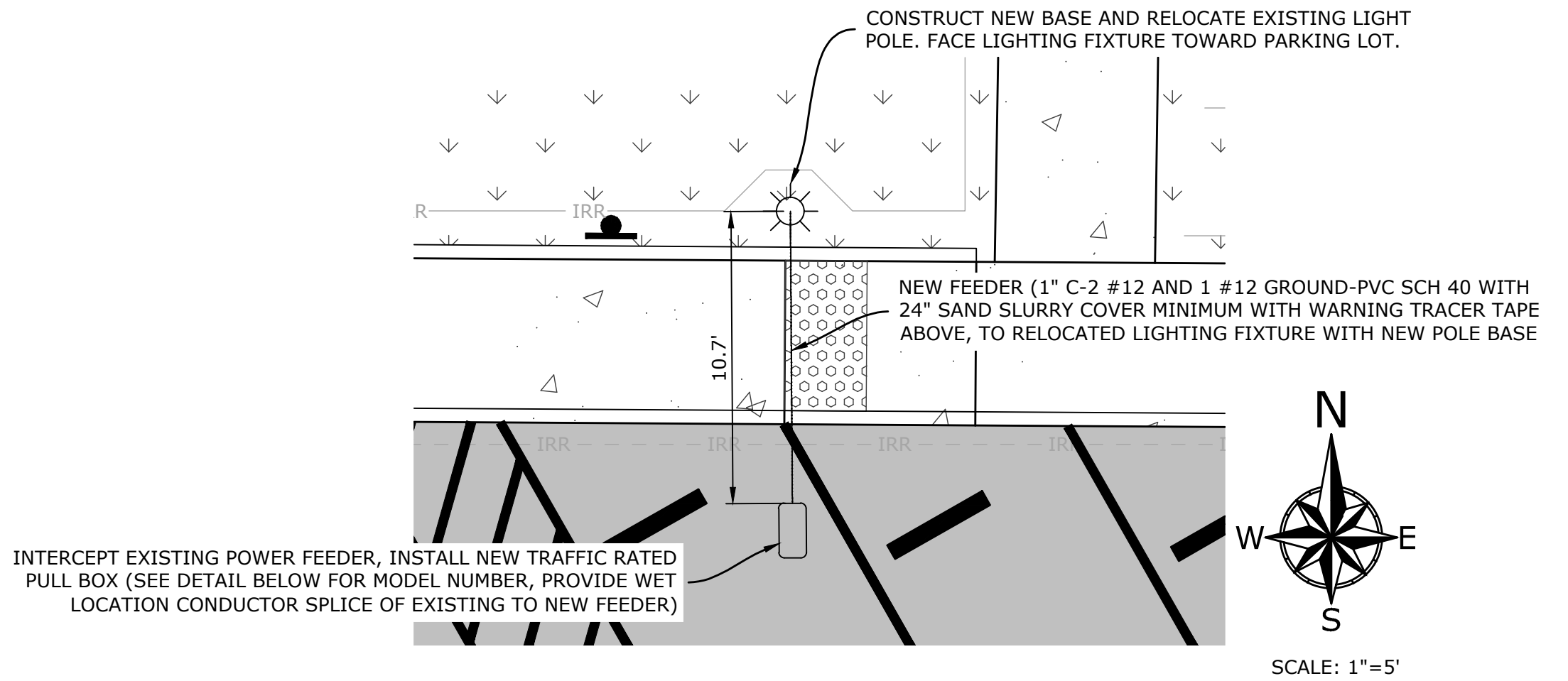
FB-26-03 ASPHALT PARKING LOT REMOVAL AND REPLACEMENT WITH ADA PATHWAY UPGRADES LAS POSAS ELEMENTARY SCHOOL DETAILS SHEET			
75 E CALLE LA GUERRA, CAMARILLO, CA 93010			
SCALE: HORIZ. _____ VERT. _____		WORK ORDER 0696	
DRAWN BY: CPB		CHECKED BY: TJS	
SHEET NO. 6		OF 7	



DRAWING: n:\projects\0696\engineering\acad\improvements\2026\parking lot\0696_parking lot_det_2026.dwg



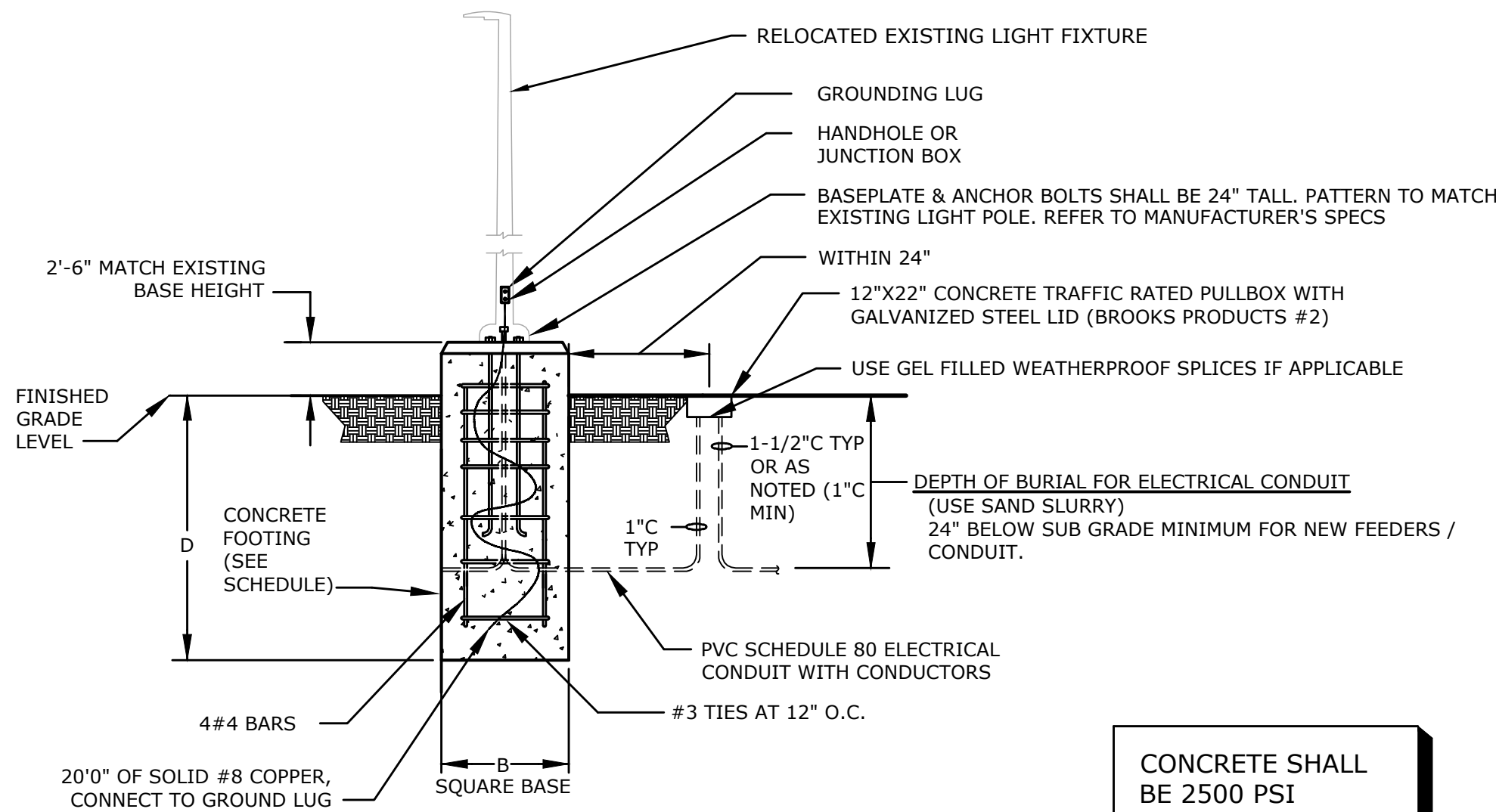
Know what's below.
Call before you dig.



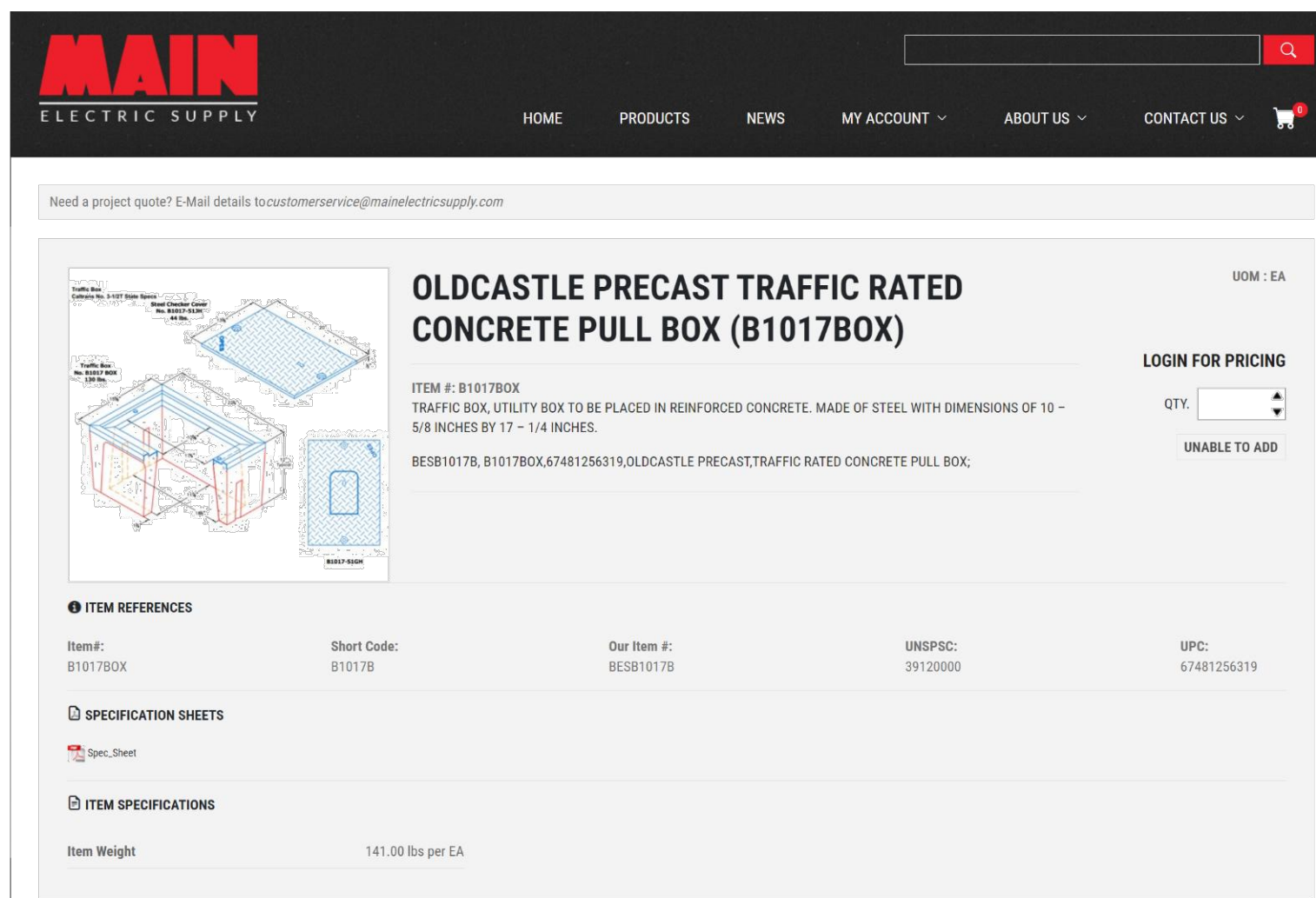
FOOTING SCHEDULE			
"H"	"D"	"B"	MAX. MOMENT
15'-0" TO 20'-0"	4'-0"	18"	1657 '#

DETAIL NOTES:

1. USE COMPRESSION LUGS TO TERMINATE CONDUCTORS TO LIGHT FIXTURES.



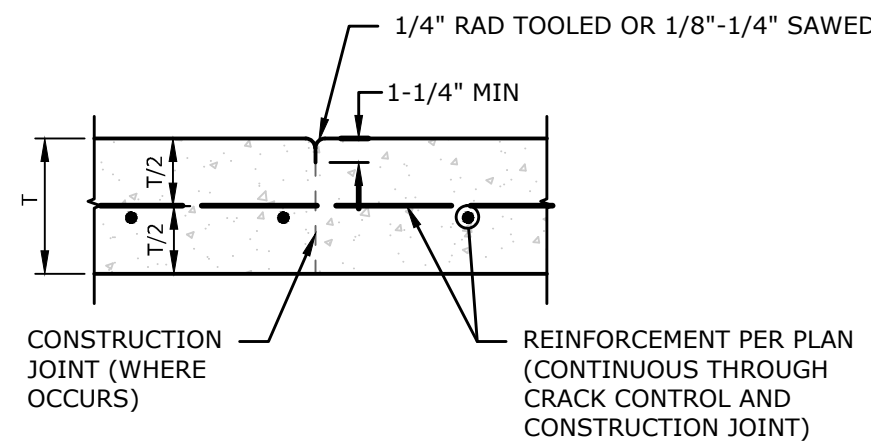
CONCRETE SHALL
BE 2500 PSI
MINIMUM



POLE BASE AND WIRING DETAIL FOR RELOCATION OF EXISTING POLE FIXTURE

SCALE: N.T.S.

I
-



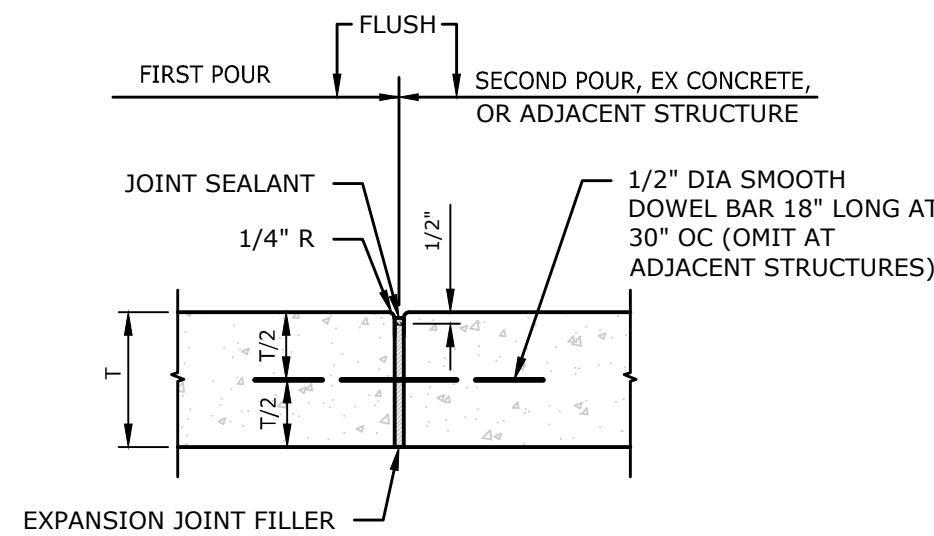
NOTES:

1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT.
2. CONSTRUCTION JOINTS SHALL ONLY BE LOCATED WHERE A CRACK CONTROL JOINT OR OTHER JOINT WOULD OTHERWISE HAVE BEEN REQUIRED.
3. SEE PLAN FOR THICKNESS, T.
4. FOR CRACK CONTROL JOINTS LOCATIONS, SEE ARCH. PLANS.
5. CRACK CONTROL JOINTS TO BE SPACED AT 12' MAX O.C. E.W.

CONSTRUCTION/CRACK CONTROL JOINT

SCALE: N.T.S.

J
-



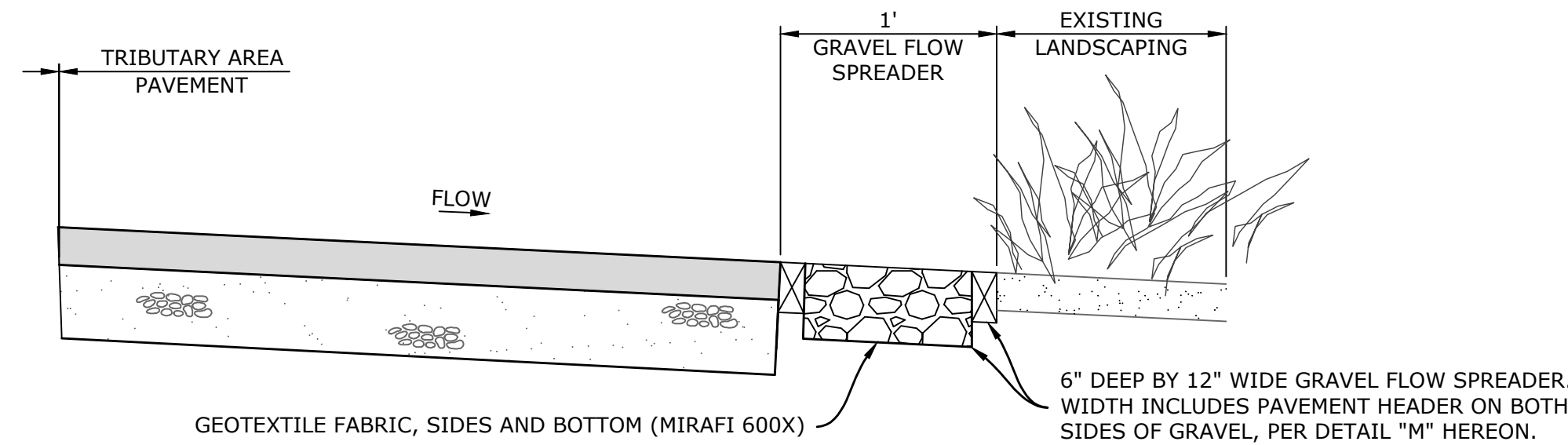
NOTES:

1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT & EXPANSION JOINT FILLER.
2. USE SMOOTH BARS FOR DOWELS COATED TO PREVENT BOND, GREASE ONE END PRIOR TO SECOND POUR.
3. SEE PLAN FOR THICKNESS, T.
4. PROVIDE ADEQUATE SUPPORT FOR DOWELS TO ENSURE THEY REMAIN LEVEL WITH FINISH SURFACE.
5. STOP SLAB REINFORCING AT EXPANSION JOINTS.
6. EXPANSION JOINTS TO BE SPACED AT 40' MAX E.W. AND CONSTRUCTED AT ADJACENT STRUCTURES.

EXPANSION JOINT

SCALE: N.T.S.

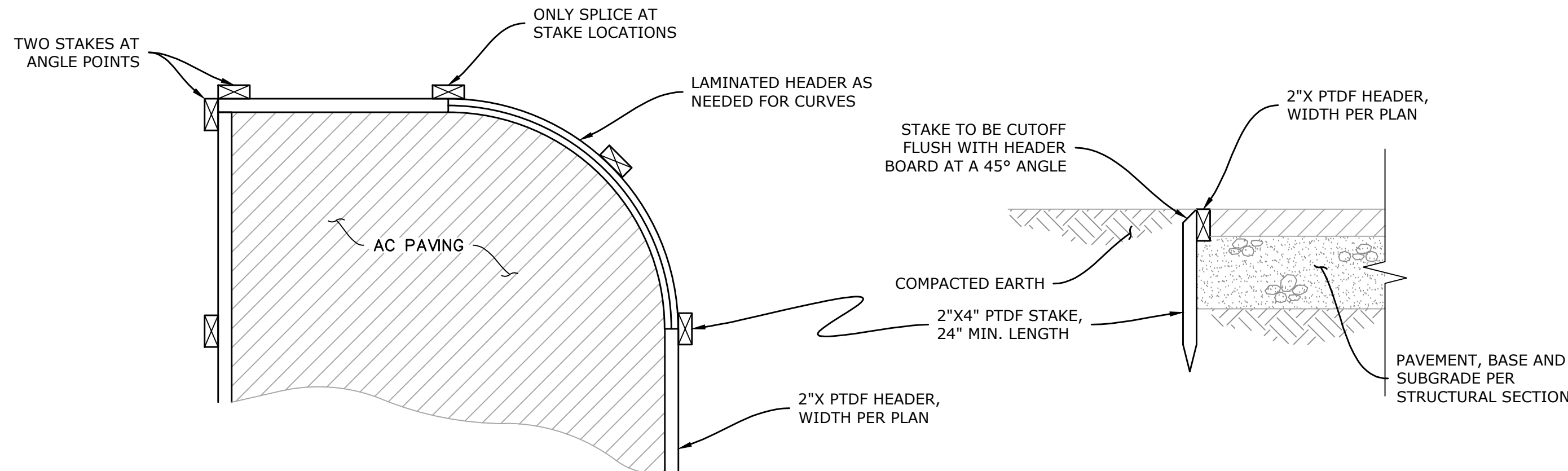
K
-



GRAVEL FLOW SPREADER DETAIL

SCALE: N.T.S.

L
-



PLAN

NOTES:

1. HEADER TO BE INSTALLED AFTER BASE.
2. EARTH BACKFILL MUST BE COMPACTED IN PLACE PRIOR TO PAVING.
3. ATTACH STAKES TO HEADER BOARDS WITH TWO 12 PENNY HOT DIPPED GALVANIZED NAILS (MIN).

SECTION

PAVEMENT HEADER DETAIL

SCALE: N.T.S.

M
-

REVISIONS			
MARK	DATE	DESCRIPTION	BY
REVIEWED BY:		DATE	
		DATE	



TRISTAN J. SANTOS
PROJECT ENGINEER
R.C.E.

DATE: 02/02/2026

BID SET DATE: 02-04-2026

FB-26-03 ASPHALT PARKING LOT REMOVAL AND REPLACEMENT WITH ADA PATHWAY UPGRADES LAS POSAS ELEMENTARY SCHOOL DETAILS SHEET 75 E CALLE LA GUERRA, CAMARILLO, CA 93010	
SCALE: HORIZ. _____ VERT. _____	
WORK ORDER 0696	
DRAWN BY: CPB	
CHECKED BY: TJS	
SHEET NO. <u>7</u> OF <u>7</u>	

SCOPE OF WORK

IN GENERAL THE SCOPE OF WORK INCLUDES REPAIRING IRRIGATION AND PLANTING AREAS AS A RESULT OF NEW PARKING LOT IMPROVEMENTS.

APPLICABLE CODES & STANDARDS

PART 1 - 2026 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE. TITLE 24 C.C.R.

PART 2 - 2026 CALIFORNIA BUILDING CODE - TITLE 24 C.C.R.

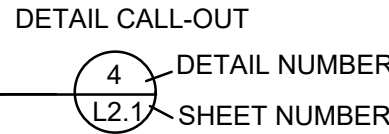
DEVELOPMENT CONSTRUCTION PROGRAM:

THE CONTRACTOR SHALL IMPLEMENT A CONSTRUCTION PROGRAM THAT PREVENTS ILLICIT CONSTRUCTION RELATED DISCHARGES OF POLLUTANTS INTO THE MS4, IMPLEMENTS AND MAINTAINS STRUCTURAL AND NON-STRUCTURAL BMPs TO REDUCE POLLUTANTS IN STORM WATER RUNOFF FROM THE CONSTRUCTION SITE, REDUCE CONSTRUCTION SITE DISCHARGES OF POLLUTANTS FROM THE MS4 TO THE MAXIMUM EXTENT PRACTICAL (MEP) AND PREVENTS CONSTRUCTION SITE DISCHARGES FROM THE MS4 FROM CAUSING OR CONTRIBUTING TO A VIOLATION OF WATER QUALITY STANDARDS.

ABBREVIATIONS

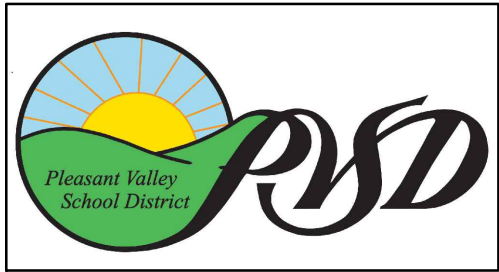
AC	ASPHALT
BLDG.	BUILDING
BTM.	BOTTOM
CONSTR.	CONSTRUCTION
CONC.	CONCRETE
C.A.B	CRUSHED AGGREGATE BASE
C/C	CENTER TO CENTER
CONT.	CONTINUOUS
C.L.	CHAIN LINK
CLR	CLEAR
C.O.	CLEAN OUT
DEG	DEGREE
D.G.	DECOMPOSED GRANITE
DIA.	DIAMETER
(E)	EXISTING
E.G.	EXISTING GRADE
E.J.	EXPANSION JOINT
EQ	EQUAL
F'C =	CONCRETE STRENGTH AS NOTED
F.O.	FACE OF
FIN.	FINISH
FIN. FLR.	FINISH FLOOR
FG	FINISH GRADE
FS	FINISH SURFACE
FTG.	FOOTING
GA	GAUGE
GRD.	GRADE
H.P.	HIGH POINT
INV	INVERT ELEVATION
IRR	IRRIGATION
MAX	MAXIMUM
MID. PT.	MIDDLE POINT
MIN	MINIMUM
M.P.R.	MULTI PURPOSE ROOM
(N)	NEW
NTE	NOT TO EXCEED
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PSI	POUNDS PER SQUARE INCH
R.	RADIUS
STL.	STEEL
TC	TOP OF CURB
TG	TOP OF GRATE
TYP	TYPICAL
TW	TREE WELL
T&B	TOP AND BOTTOM
VERTS	VERTICAL

SYMBOLS



PLEASANT VALLEY SCHOOL DISTRICT

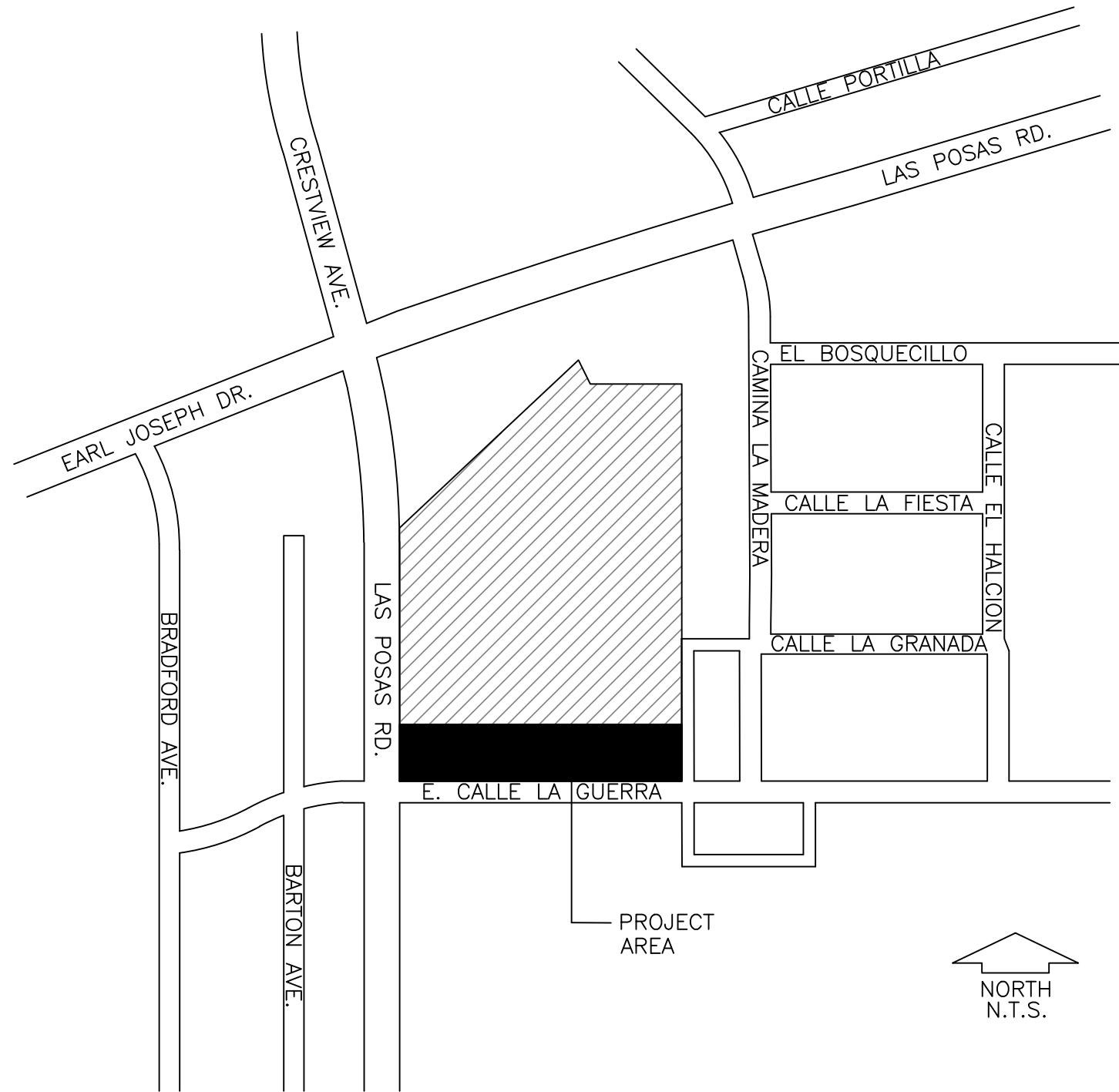
600 TEMPLE AVENUE
CAMARILLO, CA 93010



LAS POSAS ELEMENTARY SCHOOL
PARKING LOT REHABILITATION

75 EAST CALLE LA GUERRA
CAMARILLO, CA 93010

VICINITY MAP



SCHEDULE OF DRAWINGS

SHEET NO.	SHEET REFERENCE	SHEET TITLE
1	L1.1	COVER SHEET
2	L2.1	IRRIGATION PLAN
3	L2.2	IRRIGATION LEGEND
4	L2.3	IRRIGATION DETAILS
5	L3.1	PLANTING PLAN

UNDERGROUND SERVICE ALERT



CALL : TOLL FREE
1-800-422-4133
OR
811

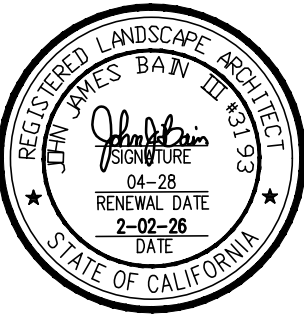
TWO WORKING DAYS BEFORE YOU DIG

JORDAN & BAIN

LANDSCAPE ARCHITECTS, INC.
459 NORTH VENTURA AVE., VENTURA CA 93001
(805) 642-3641 FAX (805) 653-7874

Jordan & Bain Landscape Architects, Inc. © 2026

REVISIONS	NO.	DATE	BY	DESCRIPTION



CLIENT

PLEASANT VALLEY
SCHOOL DISTRICT
600 TEMPLE AVE.
CAMARILLO, CA 93010

SHEET TITLE

COVER SHEET

PROJECT

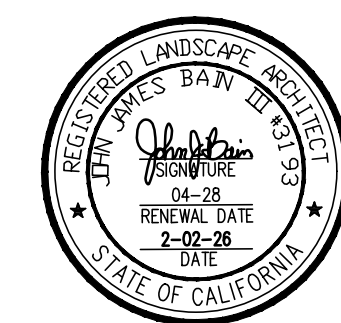
FB-26-03, Parking Lot Pavement &
ADA Pathway Replacement Project
Las Posas Elementary School
75 EAST CALLE LA GUERRA
CAMARILLO, CA 93010

DRAWN: JB	CHECKED: JB	SUBMITTAL SET	PRINTED FOR BID:
		2-02-26	2-02-26

DRAWING

L1.1

SHEET 1 OF 5
PROJECT No. 23.40

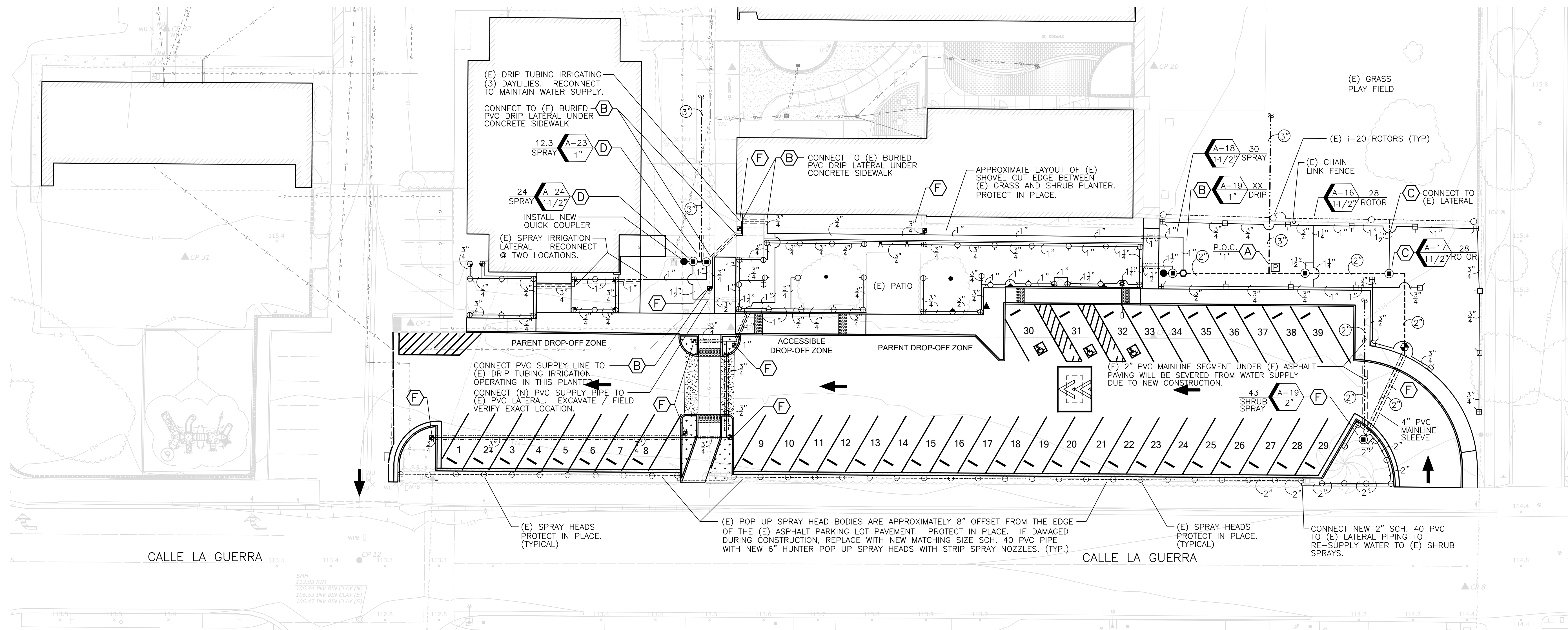
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CLIENT
PLEASANT VALLEY
SCHOOL DISTRICT
600 TEMPLE AVE.
CAMARILLO, CA 93010

SHEET TITLE
IRRIGATION PLAN
PROJECT
**FB-26-03, Parking Lot Pavement &
ADA Pathway Replacement Project
Las Posas Elementary School
75 EAST CALLE LA GUERRA
CAMARILLO, CA 93010**

DRAWN: JB	
CHECKED: JB	
SUBMITTAL SET	2-02-26
PRINTED FOR BID:	2-02-26

SHEET 2 OF 5
PROJECT No. 23.40



GRAPHIC SCALE

0 10 20 30 40

SCALE: 1"=20'



TWO WORKING DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT

CALL BEFORE YOU DIG

CALL : TOLL FREE
1-800-422-4133
OR
811

1. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR AND THE PLEASANT VALLEY SCHOOL DISTRICT (P.V.S.D.) REPRESENTATIVE SHALL PARTICIPATE IN A THOROUGH IRRIGATION SYSTEM REVIEW OF THE PROJECT SITE. ALL REMOTE CONTROL VALVES SHALL BE TURNED ON AND OBSERVED IN OPERATION BY BOTH THE CONTRACTOR AND P.V.S.D. REPRESENTATIVE. ANY EXISTING DEFECTS WILL BE LISTED IN DETAIL IDENTIFYING THE SPECIFIC VALVE STATION NUMBER AND DESCRIBING THE EXACT BROKEN OR NON FUNCTIONING IRRIGATION COMPONENT NOTED DURING THE SITE REVIEW. AT THE CONCLUSION OF THE IRRIGATION REVIEW, THE CONTRACTOR SHALL GENERATE A SUMMARY OF THE ITEMS IDENTIFIED BY BOTH PARTIES LISTING ALL REMOTE CONTROL VALVES OPERATED, IDENTIFYING IF THE VALVE PERFORMED WITHOUT ANY DEFECTS OR SPECIFICALLY IDENTIFYING ANY OBSERVED DEFECTS OR NON FUNCTIONING COMPONENTS, SUCH AS BROKEN HEADS, CLOGGED NOZZLES, NON OPERATING VALVE SOLENOID, BROKEN PIPING, OR OTHER NOTED DEFECT. THE COMPLETED SUMMARY OF ITEMS NOTED SHALL BE LISTED ON A DOCUMENT CALLED 'EXISTING IRRIGATION SYSTEM OBSERVATIONS'. THIS DOCUMENT SHALL BE SIGNED BY THE CONTRACTOR AND SUBMITTED TO THE P.V.S.D. REPRESENTATIVE FOR A CONFIRMING SIGNATURE. THE MUTUALLY SIGNED 'EXISTING IRRIGATION SYSTEM OBSERVATIONS DOCUMENT' SHALL BE SENT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR INSPECTION PURPOSES AT THE CONCLUSION OF THE CONSTRUCTION WORK. IF REQUESTED BY THE P.V.S.D. REPRESENTATIVE, THE CONTRACTOR SHALL PROVIDE A LIST OF THE EXISTING DEFECTIVE IRRIGATION COMPONENTS NOTED WITH A DETAILED WRITTEN PROPOSAL TO REPAIR EACH ITEM IDENTIFIED ON THE LIST. A COPY OF THIS PROPOSAL WILL BE SENT TO THE LANDSCAPE ARCHITECT. THIS ADDITIONAL WORK PROPOSAL MUST BE REVIEWED AND APPROVED IN WRITING BY THE P.V.S.D. STAFF AND FORMALLY PRESENTED TO THE GENERAL CONTRACTOR BEFORE THE LANDSCAPE SUB-CONTRACTOR CAN BEGIN ANY ADDITIONAL REPAIR WORK. THE MUTUALLY SIGNED 'EXISTING IRRIGATION SYSTEM OBSERVATION DOCUMENT' SHALL BE USED AS A GUIDE TO IDENTIFY ANY COLLATERAL DAMAGE CAUSED TO THE EXISTING IRRIGATION SYSTEM AS A RESULT OF NEW CONSTRUCTION PERFORMED ON SITE BY THE CONTRACTORS. ANY DAMAGE CAUSED TO THE EXISTING IRRIGATION SYSTEM NOT SPECIFICALLY IDENTIFIED ON THE 'EXISTING IRRIGATION SYSTEM OBSERVATION DOCUMENT' SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THAT THE CONTRACTOR DOES NOT PARTICIPATE OR PERFORM THE EXISTING IRRIGATION SITE REVIEW, ANY EXISTING IRRIGATION EQUIPMENT OR COMPONENTS DAMAGED ON THE PROJECT SITE NOTED BY THE LANDSCAPE ARCHITECT DURING THE FINAL IRRIGATION SYSTEM REVIEW SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE AND TO THE SATISFACTION OF THE P.V.S.D. REPRESENTATIVE.
2. FIELD VERIFY EXISTING STATIC WATER PRESSURE AND NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING ANY WORK.
3. CONTACT DIG ALERT AT 1-800-227-2600 TO IDENTIFY AND LOCATE ALL ON-SITE UTILITIES PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL COORDINATE WITH THE PLEASANT VALLEY SCHOOL DISTRICT (P.V.S.D.) REPRESENTATIVE AND REVIEW THE EXISTING SITE PRIOR TO BEGINNING WORK TO AVOID CONFLICTS WITH FUTURE CONSTRUCTION PROJECTS SCHEDULED ON SITE.
4. PROTECT IN PLACE AND KEEP IN WORKING CONDITION ALL EXISTING IRRIGATION SYSTEMS NOT A PART OF THIS WORK. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING MAINLINE SEGMENT, LATERAL, IRRIGATION CONTROL WIRE, HYDRAULIC TUBING, REMOTE CONTROL VALVE, VALVE BOX, QUICK COUPLER, OR ANY OTHER IRRIGATION SYSTEM COMPONENT DAMAGED DURING THE RENOVATION PROCESS. ADJACENT FUNCTIONING IRRIGATION SYSTEM COMPONENTS MUST BE KEPT IN WORKING CONDITION TO MAINTAIN THE HEALTH AND VIGOR OF THE EXISTING TURF AND LANDSCAPE PLANTINGS. PROLONGED LACK OF WATER TO THESE PLANTERS AS A RESULT OF NEW CONSTRUCTION WORK THAT RESULTS IN THE LOSS OF TURF OR PLANTS SHALL BE REPLACED BY THE CONTRACTOR AT THEIR COST AND TO THE SATISFACTION OF THE P.V.S.D.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRENCH SETTLING OR IRRIGATION HEAD SETTLING. ALL TRENCHES WILL BE BACK FILLED WITH CLEAN SOIL, COMPACTED AND PLANTED WITH APPROVED GRASS SEED OR PLANT MATERIAL AS PER PLAN. ALL HEADS THAT SETTLE WILL BE RAISED TO 1/2" ABOVE FINISH GRADE OR AS DIRECTED BY EITHER THE LANDSCAPE ARCHITECT OR P.V.S.D. REPRESENTATIVE. PROVIDE ADDITIONAL SOIL AS NECESSARY AND HAND TAMP AROUND HEAD TO PREVENT FUTURE SETTLING.
6. SLEEVE ALL PVC IRRIGATION PIPES AND WIRES INSTALLED UNDER PAVING. WIRES SHALL BE ENCLOSED IN SCH. 40 PVC ELECTRICAL CONDUIT SIZED BY THE CONTRACTOR, NO LESS THAN 2" IN SIZE. MAINLINE SLEEVES SHALL BE SIZED AS PER LEGEND ON PLAN. SEE SPECIFICATIONS AND IRRIGATION SLEEVING SCHEDULE FOR ADDITIONAL INFORMATION.
7. THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPE PLANTERS WHENEVER POSSIBLE.
8. ALL SPRINKLER HEADS SPECIFIED ON THIS PROJECT ARE EQUIPPED WITH FACTORY INSTALLED CHECK VALVES IN THE SPRINKLER BODY. IN THE EVENT THAT LOW HEAD DRAINAGE STILL OCCURS, THE CONTRACTOR SHALL INSTALL INLINE SWING CHECK OR SPRING LOADED CHECK VALVES ON THE PVC LATERALS TO PREVENT LOW HEAD DRAINAGE. ANY INLINE CHECK VALVE INSTALLED ON PVC LATERALS MUST BE FURNISHED WITH A 10" ROUND PLASTIC VALVE BOX WITH A LOCKING GREEN PLASTIC LID.
9. ALL VALVE BOXES INSTALLED IN CONCRETE OR ASPHALT PAVING SHALL BE TRAFFIC RATED CONCRETE BOXES (13-1/4"W X 24-1/4"L X 12"D) WITH CONCRETE LIDS. BOXES SHALL BE MANUFACTURED BY OLDCASTLE PRE-CAST, BOX MODEL N30BOX, LID MODEL B30D, CONCRETE BOX EXTENSION MODEL B30X12, OR CHRISTY CONCRETE BOX EQUIVALENT. ALL RECTANGULAR PLASTIC VALVE BOXES SHALL HAVE THE MINIMUM DIMENSIONS OF (14-1/2"W X 19-1/2"L X 12-1/4"H) AND SHALL HAVE GREEN LOCKING PLASTIC LIDS. THE CONTRACTOR SHALL INCLUDE WITH THE COST OF THE PROJECT ANY PLASTIC VALVE BOX EXTENSION THAT MIGHT BE REQUIRED TO COMPLETE THE VALVE INSTALLATION AS PART OF THE BASE BID. PLASTIC BOX MANUFACTURER'S AND MODEL NUMBERS SHALL BE CARSON MODEL 1419-12 WITH 1419-4B 'T-STYLE GREEN LID', APPLIED ENGINEERING PRODUCTS MODEL 1015T-162G, OR NDS MANUFACTURING APPROVED EQUAL.
10. USE ONLY SCH. 80 PVC NIPPLES WHEN INSTALLING VALVES REQUIRING THREADED FITTINGS. SCH. 40 PVC MALE ADAPTERS SHALL NOT BE USED ON ANY VALVE ASSEMBLY CONNECTED TO A PRESSURIZED MAINLINE.
11. MAKE ALL REQUIRED ADJUSTMENTS TO BOTH EXISTING AND NEW SPRINKLER HEADS TO PREVENT ANY IRRIGATION WATER FROM OVER SPRAYING ON TO ADJACENT PAVEMENT OR CLASSROOM BUILDINGS. MAKE ANY NOZZLE REPLACEMENTS AS REQUESTED BY EITHER THE LANDSCAPE ARCHITECT OR P.V.S.D. REPRESENTATIVE TO IMPROVE IRRIGATION COVERAGE OR TO BALANCE PRECIPITATION RATE TO LANDSCAPE PLANTER AS PART OF BASE BID.
12. HEAT STAMP OR 'BRAND' INTO THE PLASTIC REMOTE CONTROL VALVE BOX LIDS THE NEW VALVE STATION NUMBER AND RELATED NEW AUTO CONTROLLER LETTER. PROVIDE CHRISTY STANDARD SIZE I.D. TAGS CONNECTED TO ALL NEW REMOTE CONTROL VALVE SOLENOIDS WITH STATION NUMBER AND RELATED EXISTING AUTO CONTROLLER IDENTIFICATION LETTER.
13. ALL WATER TIGHT CONNECTORS USED TO SPLICE 14 GAUGE WIRES TO REMOTE CONTROL VALVE SOLENOIDS OR TO REPAIR BROKEN EXISTING REMOTE CONTROL VALVE WIRES ON THIS PROJECT SHALL BE MANUFACTURED BY 3M COMPANY, MODEL DBR-Y6 SERIES, SPEARS MODEL DS-400 WITH SPEARS DS-300 SEALANT, OR P.V.S.D. APPROVED EQUAL.
14. INSTALL ALL IRRIGATION REMOTE CONTROL VALVES, BALL VALVES, AND QUICK COUPLING VALVES A MINIMUM DISTANCE OF 10'-0" FROM ALL TREE TRUNK LOCATIONS ILLUSTRATED ON PLANTING PLAN. CONFIRM LAYOUT OF EXISTING OR NEW TREE LOCATIONS PRIOR TO INSTALLING ANY VALVE.
15. EXISTING IMPROVEMENTS WITHIN THE WORK AREAS SHALL REMAIN AND BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
16. UTILITIES MAY HAVE BEEN OMITTED ON THE IRRIGATION SHEETS. REVIEW ALL AVAILABLE P.V.S.D. 'AS-BUILT' RECORD DRAWINGS AND EXERCISE CARE IN EXCAVATION WHILE PROTECTING EXISTING UTILITIES IN PLACE.
17. PRESSURE REGULATING REMOTE CONTROL VALVES SHALL BE ADJUSTED BY CONTRACTOR USING MANUFACTURER'S SPECIFICATIONS TO

ALL SLEEVES TO BE INSTALLED 24" BELOW GRADE	
MAINLINE OR LATERAL PIPE SIZE	SLEEVE SIZE REQUIRED
3/4" SCH. 40 PVC	2" SCH. 40 PVC
1" SCH. 40 PVC	2" SCH. 40 PVC
1 1/4" SCH. 40 PVC	2 1/2" SCH. 40 PVC
1 1/2" SCH. 40 PVC	3" CLASS 200 PVC
2" CLASS 315	4" CLASS 200 PVC
2 1/2" CLASS 315	4" CLASS 200 PVC
3" CLASS 315	6" CLASS 200 PVC
4" CLASS 315	6" CLASS 200 PVC

A diagram of a hexagonal sprinkler head with the following labels and leader lines:

- AUTO CONTROLLER/STATION NUMBER**: Points to the top of the hexagon.
- GALLONS PER MINUTE OR AREA**: Points to the number "28" on the left side.
- TYPE OF SPRINKLER HEAD USED**: Points to the word "ROTOR" on the left side.
- IRRIGATION KEY NOTE**: Points to the top of a smaller hexagon on the right.
- NEW REMOTE CONTROL VALVE**: Points to the letter "A" inside the smaller hexagon on the right.

The main hexagon contains the text "A-17" at the top and "1-1/2\" at the bottom. The smaller hexagon on the right contains the letter "A".

CALCULATIONS -- VALVE A-17	28 GPM
AVAILABLE WATER PRES.	85.0 PSI
LOSS @ 2" WATER METER	0.7 PSI
LOSS METER TO BACKFLOW	0.3 PSI
LOSS @ BACKFLOW	1.35 PSI
INLET PRESSURE TO PUMP	70.5 PSI
PRESSURE INCREASE @ PUMP	35.0 PSI
LOSS BACKFLOW TO RCV	2.0 PSI
LOSS @ RCV	1.9 PSI
LOSS RCV TO LAST HEAD	3.2 PSI
LOSS -- ELEVATION CHANGE	2.2 PSI
LOSS DUE TO TURBULENCE / FITTINGS	2.1 PSI
TOTAL PRESSURE LOSS	25.9 PSI
AVAILABLE WATER PRESSURE WITHOUT BOOSTER PUMP	85.0 PSI
OPERATING PSI	59.1 PSI

IRRIGATION LEGEND															
SYMBOL		DESCRIPTION	MANUFACTURER	MODEL	REMARKS	DETAIL									
		(E) IRRIGATION SLEEVING	UNKNOWN	CL. 200 / SCH. 40 PVC	SOLVENT WELD – APPROXIMATELY 24" BELOW GRADE	N/A									
		(E) IRRIGATION MAINLINE	UNKNOWN	GASKETED SDR 21 PVC	24"–30" BELOW GRADE – UNLESS OTHERWISE NOTED ON PLAN	N/A									
		(E) IRRIGATION LATERAL	UNKNOWN	SCH. 40 PVC	SOLVENT WELD – APPROXIMATELY 12" BELOW GRADE	N/A									
		IRRIGATION SLEEVING	PACIFIC / P.W. EAGLE	CL. 200 / SCH. 40 PVC	SOLVENT WELD – 24" BELOW GRADE – UNLESS OTHERWISE NOTED ON PLAN	1, 2, 3 / L2.3									
		IRRIGATION MAINLINE	PACIFIC / P.W. EAGLE	CL. 315 PVC SOLVENT WELD	2" SIZE AND LARGER – SOLVENT WELD – 24" BELOW GRADE	1, 2, 3, 4 / L2.3									
		IRRIGATION MAINLINE	PACIFIC / P.W. EAGLE	SCH. 40 PVC SOLVENT WELD	1-1/2" SIZE OR LESS – SOLVENT WELD – 24" BELOW GRADE	1, 2, 3, 4 / L2.3									
		IRRIGATION LATERAL	PACIFIC / P.W. EAGLE	SCH. 40 PVC SOLVENT WELD	SOLVENT WELD – 12" BELOW GRADE	1, 2, 3 / L2.3									
		(E) REMOTE CONTROL VALVE	SUPERIOR	950DW SERIES – BRASS BODY	PROTECT IN PLACE UNLESS OTHERWISE INSTRUCTED ON IRRIGATION PLAN	N/A									
		(E) SPRINKLER HEAD	RAIN BIRD / HUNTER	1806SAM–PRS / I20–SS–PRB–SERIES	FIELD VERIFY THE EXACT SPRINKLER HEAD SPACING AND MODEL IN THE FIELD	N/A									
		REMOTE CONTROL VALVE	WEATHERMATIC	MAX–DW–XPR SERIES	PRESSURE REGULATING GLASS–NYLON VALVE BODY– 225 PSI RATING – IN A VALVE BOX	5 / L2.3									
		1" DRIP REMOTE CONTROL VALVE ASSEMBLY	WEATHERMATIC / RAIN BIRD	MAX–DW–10 / WITH RAIN BIRD PRB–QKCHK–100 FILTER	INSTALL 1" PVC BALL VALVE, (1") MAX–DW–10 REMOTE CONTROL VALVE, AND RAIN BIRD PRB–QKCHK–100 PRESSURE COMPENSATING DRIP FILTER IN A JUMBO VALVE BOX	6 / L2.3									
		(E) QUICK COUPLER	BUCKNER	1" BRASS BODY	EITHER PROTECT IN PLACE OR REPLACE AS INDICATED ON IRRIGATION PLAN	N/A									
		NEW QUICK COUPLER	BUCKNER	QB44RC–10	1" SIZE, RUBBER COVER, BRASS, INSTALLED IN A 10" ROUND GREEN VALVE BOX	7 / L2.3									
		WIRE PULL/SPICE BOX	CARSON / NDS / EQ.	1419–12	GREEN RECT. VALVE BOX (14"W X 19"L X 12"D) – FORM A 3'–0" WIRE LOOP WITHIN BOX	11 / L2.3									
		SCH. 40 PVC BALL VALVE	SPEARS / NIBCO / EQ.	SCH. 40 PVC BALL VALVE	SCH. 40 PVC SOLVENT WELD, 1/2" SIZE, INSTALLED IN A 10" ROUND GREEN VALVE BOX FOR FUTURE DRIP IRRIGATION POINTS OF CONNECTION	12 / L2.3									
		SCH. 80 PVC BALL VALVE	SPEARS	TRU–UNION SERIES	SCH. 80 PVC SLIP BODY – 235 PSI – EPDM O–RINGS – LINE SIZE – IN VALVE BOX	8 / L2.3									
SYMBOL		DESCRIPTION	MANUFACTURER	MODEL & REMARKS				PSI	RAD	GPM	GPM	GPM	GPM	GPM	GPM
Q	T	H	TQ	F					Q	T	H	TQ	F		
					POP UP TURF ROTOR	HUNTER	I20–06–SS–PRB–MPR–25Q / PRES. COMPENSATING BODY – CHECK VALVE – 6" S.S. RISER	45	25	1.00					10 / L2.3
					POP UP TURF ROTOR	HUNTER	I20–06–SS–PRB–MPR–25T / PRES. COMPENSATING BODY – CHECK VALVE – 6" S.S. RISER	45	25		1.38				10 / L2.3
					POP UP TURF ROTOR	HUNTER	I20–06–SS–PRB–MPR–25H / PRES. COMPENSATING BODY – CHECK VALVE – 6" S.S. RISER	45	25			1.98			10 / L2.3
					POP UP TURF ROTOR	HUNTER	I20–06–SS–PRB–MPR–25H / PRES. COMPENSATING BODY – CHECK VALVE – 6" S.S. RISER	45	25				3.82		10 / L2.3
					POP UP TURF SPRAY	HUNTER	PROS–06–PRS30–CV–15A–HE NOZZLES – 6" POP UP WITH 30 PSI PRES REG & CHECK VALVE	30	15	0.96	1.42	1.87	2.81	3.74	9 / L2.3
					POP UP TURF SPRAY	HUNTER	PROS–06–PRS30–CV–12A–HE NOZZLES – 6" POP UP WITH 30 PSI PRES REG & CHECK VALVE	30	12	0.63	0.93	1.22	1.83	2.44	9 / L2.3
					POP UP TURF SPRAY	HUNTER	PROS–06–PRS30–CV–10A–HE NOZZLES – 6" POP UP WITH 30 PSI PRES REG & CHECK VALVE	30	10	0.44	0.65	0.86	1.28	1.71	9 / L2.3
					POP UP TURF SPRAY	HUNTER	PROS–06–PRS30–CV–8A–HE NOZZLES – 6" POP UP WITH 30 PSI PRES REG & CHECK VALVE	30	8	0.28	0.42	0.55	0.82	1.10	9 / L2.3
					POP UP STRIP SPRAY	HUNTER	PROS–06–PRS30–CV–SS–530 NOZZLE – 6" POP UP WITH 30 PSI PRES REG & CHECK VALVE	30	5x30					1.30	9 / L2.3
					POP UP SHRUB SPRAY	HUNTER	PROS–12–PRS30–CV–10A–HE NOZZLES – 12" POP UP WITH 30 PSI PRES REG & CHECK VALVE	30	10	0.44	0.65	0.86	1.28	1.71	9 / L2.3

NO.	DESCRIPTION
A	POINT OF CONNECTION '1': EXCAVATE AND EXPOSE THE (E) 3" PVC IRRIGATION MAINLINE APPROXIMATELY 7'-0" NORTH OF THE NEW CONCRETE SIDEWALK. PROTECT IN PLACE ALL (E) 14-GAUGE WIRES THAT ARE DIRECT BURIED AND SECURED TO THE BOTTOM OF THE PVC MAINLINE. CUT 3" PVC MAINLINE AND INSTALL A 2"x2"x3" SCH. 80 PVC TEE. TONE FOUR (E) 14-GAUGE WIRES TO DETERMINE ACTIVE VALVE STATION. WIRE NUMBERS 'A-16', 'A-17', 'A-18', 'A-19' AND WHITE COMMON WIRE. INSTALL A WIRE SPLICE BOX OVER WIRES AND LABEL EACH WIRE WITH NUMBERED CHRISTY STANDARD YELLOW VALVE WIRE TAGS. THERE ARE (2) EXTRA WIRES, (1) RED AND (1) WHITE WITH A RED STRIPE THAT WERE ORIGINALLY PULLED AS SPARE WIRES BUT ARE NOW CUT AND BEING USED FOR THE FUTURE CENTRAL QUAD RENOVATION. PROTECT THESE (2) WIRE SEGMENTS IN PLACE. TRENCH AND INSTALL NEW 2" CLASS 315 PVC IRRIGATION MAINLINE ON BOTH SIDES OF NEW TEE TO SUPPLY WATER TO NEW REMOTE CONTROL VALVES AND QUICK COUPLER AS PER PLAN. SPLICE NEW 14-GAUGE WHITE COLORED COMMON WIRE ONTO (E) SEVERED COMMON AND DIRECT BURY TO NEW REMOTE CONTROL VALVES. THE (E) REMOTE CONTROL VALVE CONTROL WIRES ARE COLOR CODED. THE EXACT COLORS USED ARE UNKNOWN. SPLICE BLACK COLORED 14-GAUGE COMMON WIRES TO (E) SEVERED 14-GAUGE WIRES. TRENCH AND EXTEND TO NEW REMOTE CONTROL VALVES. PROVIDE STANDARD YELLOW CHRISTY VALVE ID TAGS TO IDENTIFY EACH REMOTE CONTROL VALVE STATION NUMBER IN SPLICE BOX AT EACH WIRE SPLICE FOR FUTURE MAINTENANCE PURPOSES. USE 3M MODEL DBR-Y6 WATERPROOF WIRE CONNECTORS FOR ALL WIRE SPLICES AND CONNECTIONS TO NEW REMOTE CONTROL VALVE SOLENOIDS. TRENCH AND INSTALL NEW PVC LATERALS AND SPRINKLER HEADS AS PER PLAN.
B	DRIP IRRIGATION REMOTE CONTROL VALVE 'A-19': INSTALL NEW 1" DRIP REMOTE CONTROL VALVE ASSEMBLY 'A-19' AT LOCATION AS PER IRRIGATION PLAN. TRENCH AND INSTALL NEW SCH. 40 PVC LATERALS ACROSS SHRUB PLANTING AREA. FIELD VERIFY EXACT PVC LATERAL TRENCHING LAYOUT WITH PVSD REPRESENTATIVE IN THE FIELD. INSTALL 3" SCH. 40 PVC BALL VALVES IN 6" ROUND GREEN VALVE BOXES AS PER PLAN FOR FUTURE 3" POLYETHYLENE DRIP HOSE CONNECTIONS AND DRIP EMITTERS FOR FUTURE PVSD SHRUB PLANTING OPERATIONS. EXCAVATE AND EXPOSE THE (E) PVC DRIP LATERALS UNDER THE SIDEWALKS LOCATED NEAR THE ADMINISTRATION BUILDING ENTRANCE. CONNECT NEW PVC DRIP SUPPLY LINE TO (E) PVC LATERALS OR DRIP HOSE TO MAINTAIN THE WATER SUPPLY WITHIN THE (E) DRIP IRRIGATION PLANTERS. PROTECT IN PLACE ALL (E) 3" POLYETHYLENE DRIP TUBING STAPLED TO FINISH GRADE WITH BARBED DRIP EMITTERS IN PLANTERS WHERE NEW PIPE CONNECTIONS WILL OCCUR. TRENCH AND INSTALL A 1-1/2" SCH. 40 PVC DRIP LATERAL PIPE FROM DISCHARGE OF VALVE, TRENCH AND INSTALL A 2" PVC LATERAL SLEEVE UNDER NEW PAVING, AND EXTEND TO REMAINING (E) PLANTER LOCATED ON WEST SIDE OF PARKING LOT ENTRANCE. THE (E) PLANTER HAS BOTH PALM TREES AND A LOW GROWING SHRUB GROUND COVER. INSTALL A SEGMENT OF DRIPLINE TUBING FROM END OF 1" PVC DRIP LATERAL PIPE AND COIL UNDER THE VEGETATION KEEPING TUBING APPROXIMATELY 18" OFFSET AS IT COILS FROM OUTSIDE OF PLANTER TOWARDS PALM TREE TRUNK LOCATED IN THE CENTER OF THE PLANTER. STAPLE THE TUBING TO FINISH GRADE UNDER THE VEGETATION WITH 6" LONG GALVANIZED STEEL TUBING STAKES APPROXIMATELY 5'-0" O.C.
C	NEW REMOTE CONTROL VALVE 'A-17' - INSTALL NEW 1-1/2" REMOTE CONTROL VALVE - TRENCH AND INSTALL NEW LATERAL AND CONNECT TO (E) LATERAL TO RESUPPLY FOUR (F) TURF ROTORS: INSTALL NEW 1-1/2" REMOTE CONTROL VALVE 'A-17' WITH NEW 14-GAUGE WIRE SEGMENTS AT THE APPROXIMATE LOCATION SHOWN ON THE IRRIGATION PLAN. THERE ARE (4) REMAINING TURF ROTORS INSTALLED ON THE NORTH SIDE OF THE (E) CHAIN LINK FENCE THAT WILL BE ORPHANED AS A RESULT OF THE NEW CONSTRUCTION WORK. FIELD VERIFY THE EXACT LOCATION OF THE (E) 1-1/2" PVC LATERAL SUPPLY PIPE PREVIOUSLY SUPPLYING WATER TO THESE HEADS WHICH WAS SEVERED DURING CONSTRUCTION. TRENCH AND INSTALL NEW 1-1/2" SCH. 40 PVC LATERAL PIPING WITH SCH. 40 PVC FITTINGS AS NEEDED ORIGINATING FROM OUTLET OF NEW 1-1/2" REMOTE CONTROL VALVE AND CONNECT TO SEVERED 1-1/2" PVC PIPE. ENSURE THAT ALL (4) TURF ROTORS ARE OPERATING PROPERLY AND HAVE NOT BEEN COMPROMISED WITH SOIL OR ROCKS IN THE LATERAL PIPING. COMPLETED WORK SHALL PROVIDE A NEW WATER SUPPLY TO THE FOUR (E) TURF ROTORS AND THAT ALL TURF ROTOR ARC PATTERNS ARE ADJUSTED PROPERLY TO PREVENT ANY CONFLICTS WITH THE (E) CHAIN LINK FENCING.
D	REMOVE (E) REMOTE CONTROL VALVES 'A-23' AND 'A-24' AND REPLACE THEM WITH SAME SIZE NEW REMOTE CONTROL VALVES - TRENCH AND INSTALL NEW HEADS AND PVC LATERALS AS PER PLAN: FIELD VERIFY THE EXACT LOCATION OF TWO (E) REMOTE CONTROL VALVES 'A-14' AND 'A-15' LOCATED IN THE SHRUB PLANTING AREA ON WEST SIDE OF THE MAIN SIDEWALK ENTRANCE INTO THE SCHOOL CAMPUS. (E) REMOTE CONTROL VALVE 'A-23' IS A 1" BRASS SUPERIOR VALVE AND (E) REMOTE CONTROL VALVE 'A-24' IS A 1-1/2" SUPERIOR BRASS VALVE. EXCAVATE AND EXPOSE BOTH REMOTE CONTROL VALVE ASSEMBLIES. REMOVE THE VALVE BOX AND REMOTE CONTROL VALVE ASSEMBLY WITH ALL FITTINGS AND NIPPLES TO MAINLINE AND DISPOSE OF ALL COMPONENTS. SALVAGE AND REUSE THE EXISTING 14-GAUGE COMMON AND CONTROL WIRES. INSTALL NEW SCH. 80 PVC FITTINGS AND NIPPLES AS IDENTIFIED ON REMOTE CONTROL VALVE DETAILS. REPLACE THE (E) REMOTE CONTROL VALVES WITH SAME SIZE NEW WEATHERMATIC MODEL 11000 SERIES REMOTE CONTROL VALVE ASSEMBLIES EACH IN SEPARATE JUMBO VALVE BOXES. SPLICE EXISTING 14-GAUGE WIRES TO NEW REMOTE CONTROL VALVE SOLENOID USING 3M MODEL DBR-Y6 WATERPROOF WIRE CONNECTORS. PURCHASE AND INSTALL A NEW CHRISTY STANDARD YELLOW NUMBERED VALVE ID TAG AND ATTACH TO REMOTE CONTROL VALVE WIRES CONNECTED TO SOLENOIDS. HEAT STAMP STATIONS 'A-23' AND 'A-24' IN 3" HIGH LETTERS INTO VALVE BOX LID. ON DOWNSTREAM SIDE OF EACH NEW REMOTE CONTROL VALVE, TRENCH AND INSTALL NEW SCH. 40 PVC LATERAL PIPING AND NEW TURF POP UP SPRINKLER HEADS AS PER PLAN. CONFIRM THE EXACT REMOTE CONTROL VALVE STATION NUMBERS WITH PVSD STAFF PRIOR TO INSTALLING NUMBERED CHRISTY ID TAGS AND HEAT STAMPING THE LIDS. (E) POP UP TURF SPRAY VALVE 'A-23' HAD PREVIOUSLY BEEN USED AS A TEMPORARY WATER SOURCE FOR THE (E) DRIP IRRIGATION IN SHRUB PLANTERS #1 AND #2. PROTECT IN PLACE THE (E) 3" POLYETHYLENE DRIP TUBING LINES WITH BARBED DRIP EMITTERS STAPLED TO FINISH GRADE UNDER THE (E) WOOD MULCH. SALVAGE THESE LINES AND RECONNECT THEM TO NEW PVC DRIP LATERAL PIPING INSTALLED AS PART OF THE WORK IDENTIFIED IN KEY NOTE 'B' FOR NEW DRIP REMOTE CONTROL VALVE 'A-19'.
E	REMOVE (E) 2" SUPERIOR REMOTE CONTROL VALVE AND VALVE BOX - REPLACE WITH NEW 2" WEATHERMATIC VALVE - RECONNECT TO EXISTING SPRAY HEAD LATERAL SUPPLY PIPE: FIELD VERIFY THE EXACT LOCATION OF A 2" REMOTE CONTROL VALVE OPERATING POP UP STRIP SPRAYS FOR HEDGE LOCATED BETWEEN PUBLIC SIDEWALK AND SCHOOL PARKING LOT. EXCAVATE AND EXPOSE BOTH EXISTING VALVE BOX AND REMOTE CONTROL VALVE. CUT OFF EXISTING LATERAL SUPPLY PIPE, CAREFULLY REMOVE EXISTING WIRES FROM VALVE SOLENOID, AND REMOVE THE VALVE FROM THE MAINLINE. REPLACE THIS VALVE WITH A NEW 2" WEATHERMATIC REMOTE CONTROL VALVE AND CONNECT TO MAINLINE SUPPLY USING NEW SCH. 80 PVC FITTINGS AS PER REMOTE CONTROL VALVE DETAIL. REATTACH EXISTING WIRES TO NEW REMOTE CONTROL VALVE SOLENOID WITH NEW 3M MODEL DBR-Y6 WATERPROOF WIRE CONNECTORS. INSTALL NEW VALVE BOX AND HEAT STAMP THE TOP LID WITH REMOTE CONTROL VALVE STATION NUMBER. PURCHASE AND INSTALL A NEW STANDARD YELLOW CHRISTY VALVE I.D. TAG WITH CORRECT STATION NUMBER ON IT. INSTALL NEW 2" SCH. 40 PVC PIPE SEGMENT FROM OUTLET OF NEW REMOTE CONTROL VALVE AND REATTACH TO EXISTING LATERAL SUPPLY LINE TO REACTIVATE THE EXISTING SHRUB POP UP STRIP SPRAY HEADS.

(F) INSTALL NEW 2" CLASS 315 PVC MAINLINE SEGMENT UNDER NEW PAVEMENT AND INTO PARKING LOT PLANTER TO REPLACE (E) 2" PVC MAINLINE SEGMENT DAMAGED DUE TO NEW CONSTRUCTION; TRENCH AND INSTALL NEW 2" CLASS 315 PVC MAINLINE UNDER NEW ASPHALT PAVEMENT AND EXTEND INTO THE EXISTING PARKING LOT PLANTER AS PER IRRIGATION PLAN. TONE ALL (E) 14-GAUGE WIRES CONTAINED IN SPLICE BOX INSTALLED AT POINT OF CONNECTION AND LOCATE (E) 14-GAUGE VALVE WIRE "A-19". REFER TO IRRIGATION KEY NOTE "A" FOR MORE INFORMATION. SPLICE NEW 14-GAUGE WHITE COLORED COMMON WIRE AND NEW COLOR MATCHING CONTROL WIRE "A-19" WITHIN NEW SPLICE BOX AT POINT OF CONNECTION. PULL WIRES ALONG WITH NEW 2" MAINLINE THROUGH LANDSCAPE AREA. INSTALL A NEW 4" CLASS 200 PVC SLEEVE ACROSS NEW ASPHALT DRIVEWAY TO ACCESS PARKING LOT PLANTER AS PER IRRIGATION PLAN. INSTALL NEW 2" CLASS 315 PVC MAINLINE WITH 14-GAUGE WHITE COMMON WIRE AND 14-GAUGE CONTROL WIRE TO EXISTING PLANTER. FIELD VERIFY THE EXACT LOCATION OF EXISTING REMOTE CONTROL VALVE "A-19". CUT AND REMOVE EXISTING 2" REMOTE CONTROL VALVE PROTECTING THE EXISTING DISCHARGE LATERAL PIPE IN A MANNER SO THAT IT CAN BE EASILY ACCESS. TRENCH AND INSTALL A NEW 2" SCH. 40 PVC LATERAL SEGMENT FROM NEW REMOTE CONTROL VALVE LOCATION TO REMAINING EXISTING LATERAL SUPPLY PIPE AND RECONNECT. COMPLETED WORK WILL RESULT IN A NEW REMOTE CONTROL VALVE OPERATING THE EXISTING POP UP SHRUB STRIP SPRAY HEAD. INSTALL A STANDARD YELLOW CHRYSD. VALVE TAG ON REMOTE CONTROL VALVE SOLENOID WIRES. USE ONLY 3M MODEL DBR-Y6 WATER PROOF WIRE SPLICE CONNECTORS TO CONNECT NEW 14-GAUGE WIRES TO NEW VALVE SOLENOID. HEAT STAMP NEW VALVE BOX LID WITH STATION NUMBER "A-19".

TWO WORKING DAYS BEFORE YOU DIG

LANDSCAPE ARCHITECTS, INC.

459 NORTH VENTURA AVE., VENTURA CA 93001
(805) 642-3641 FAX (805) 653-7874

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NO.	DATE	BY DESCRIPTION



CLIENT

SHEET TITLE

IRRIGATION LEGEND

SHEET 11

IRR

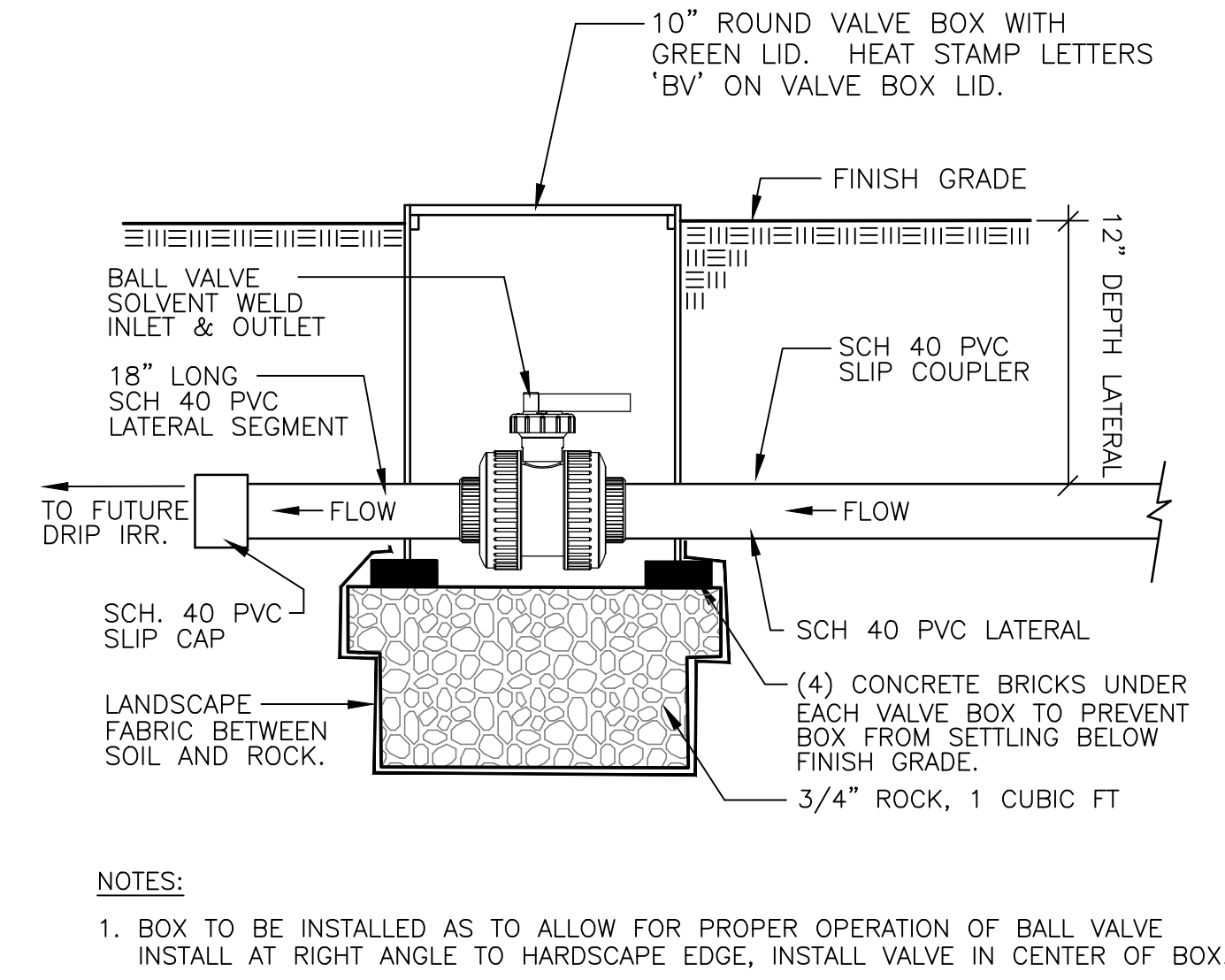
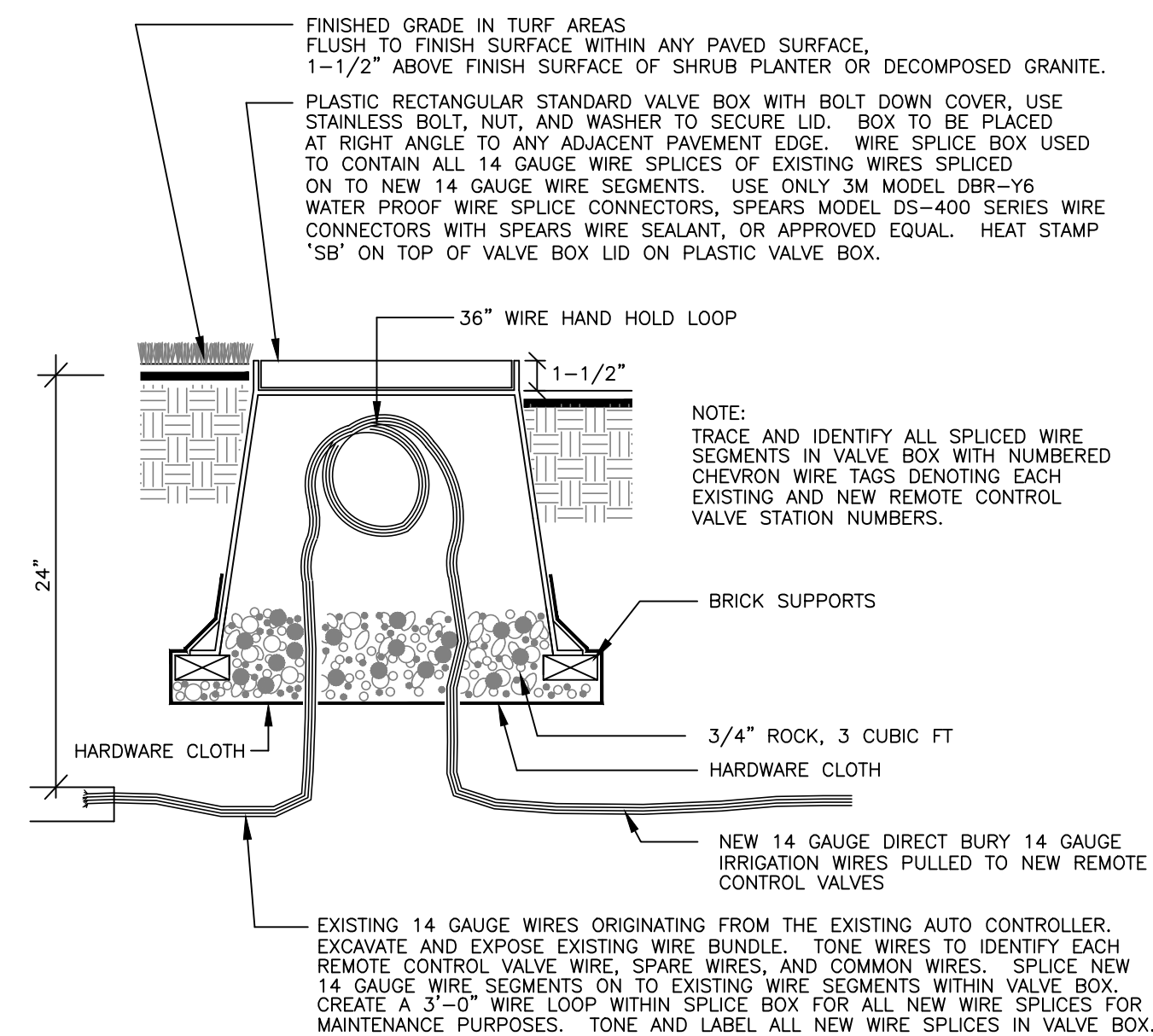
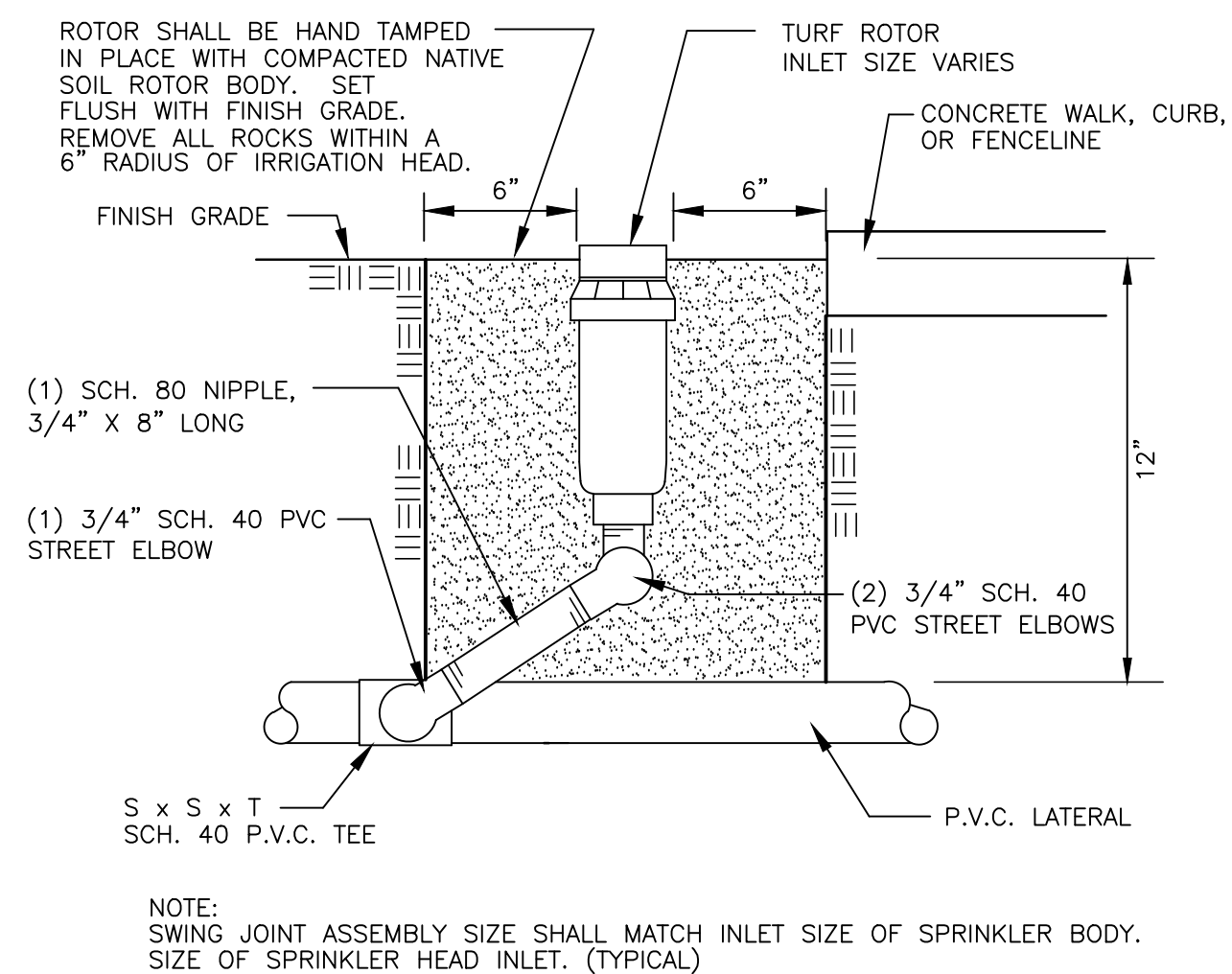
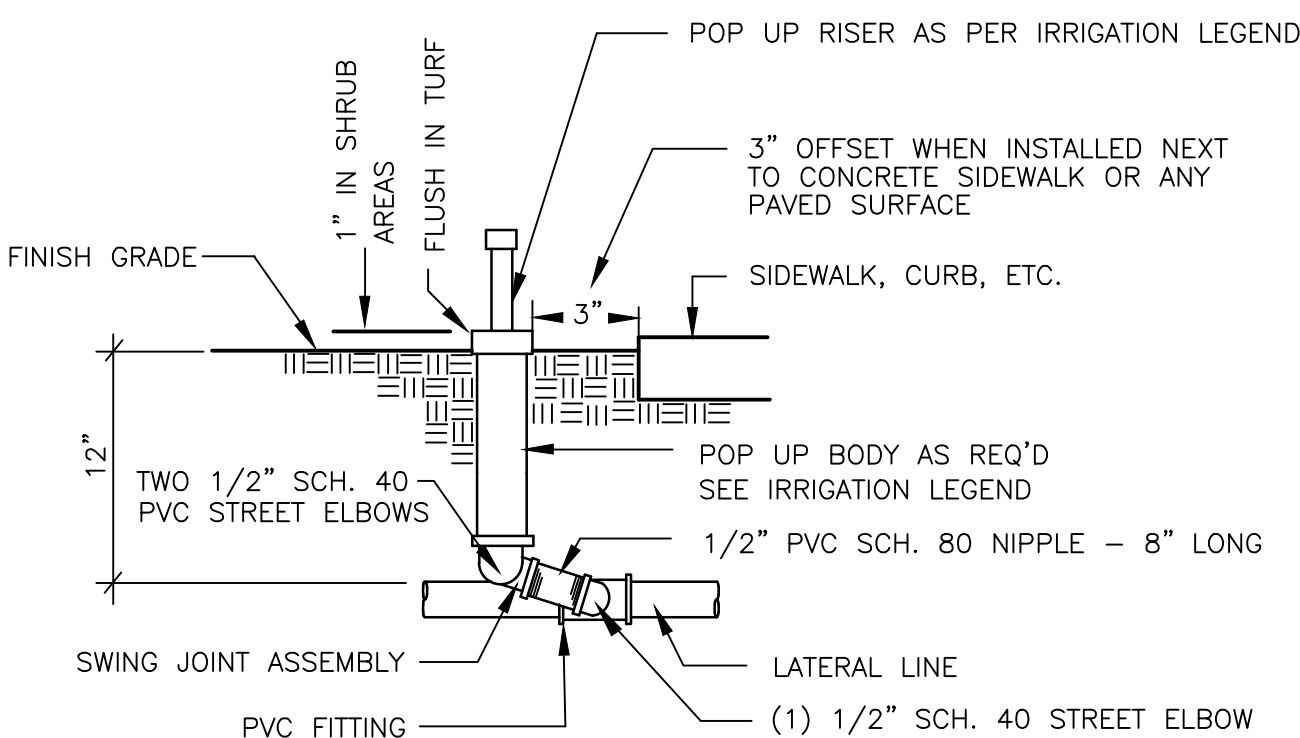
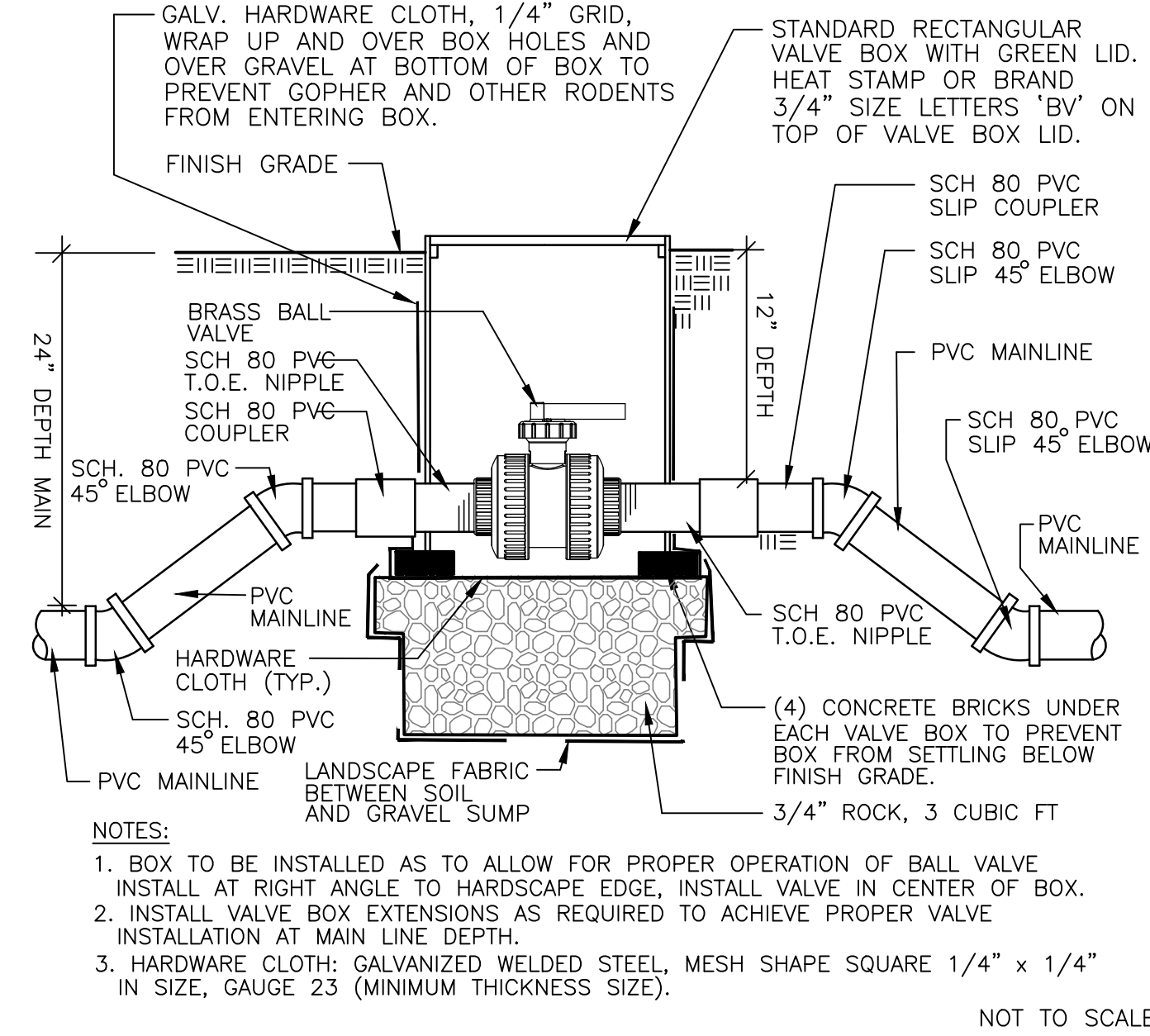
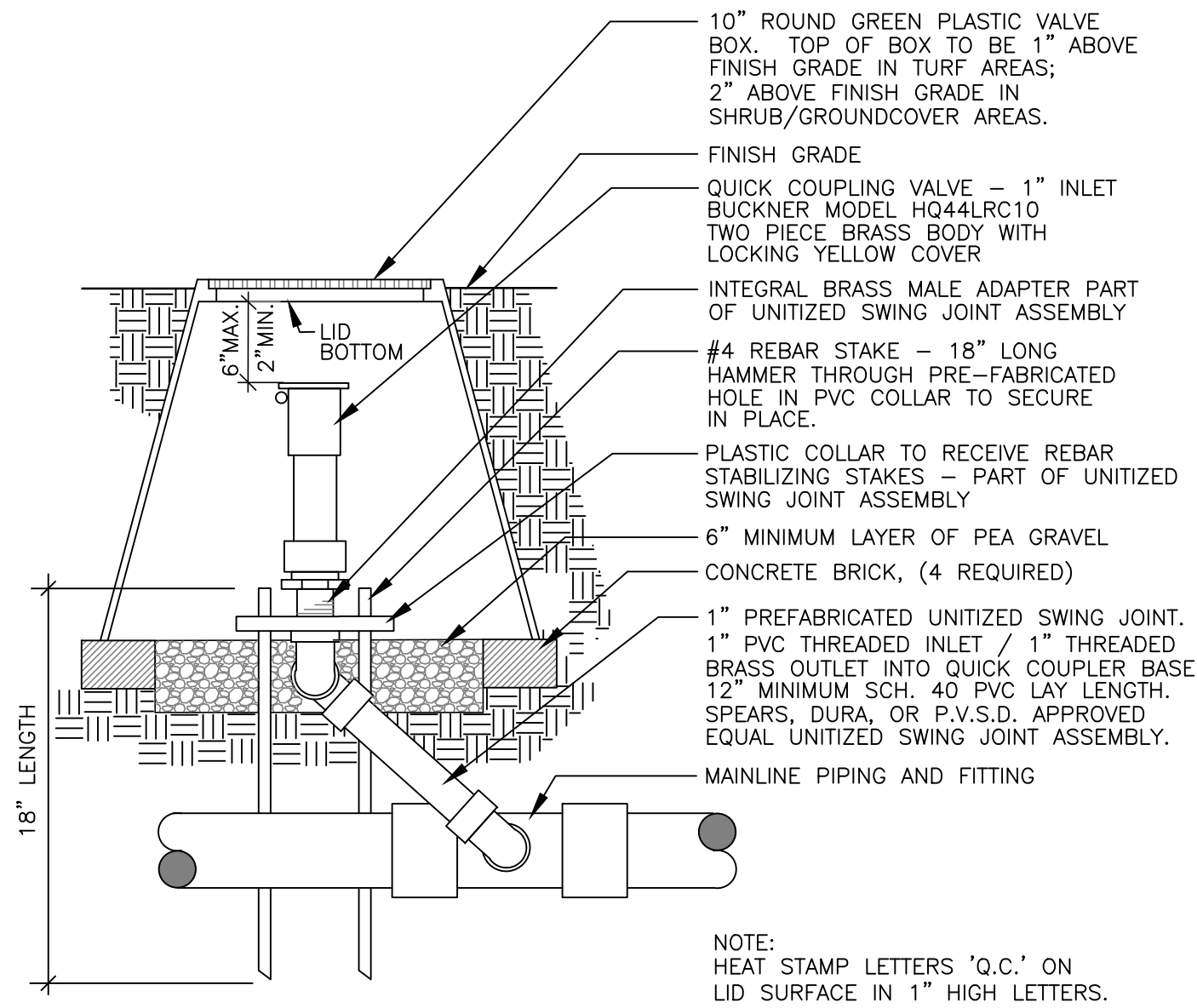
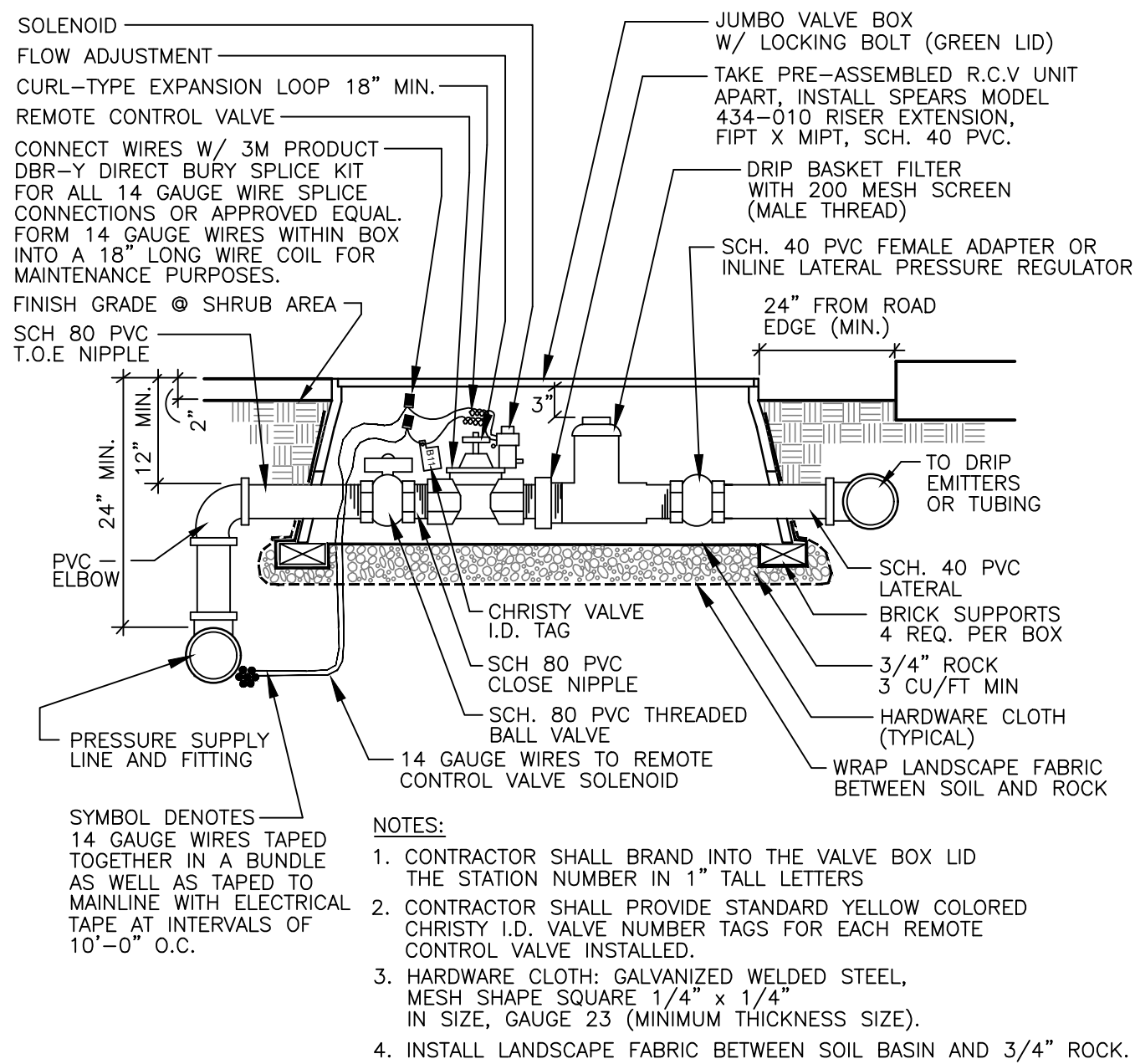
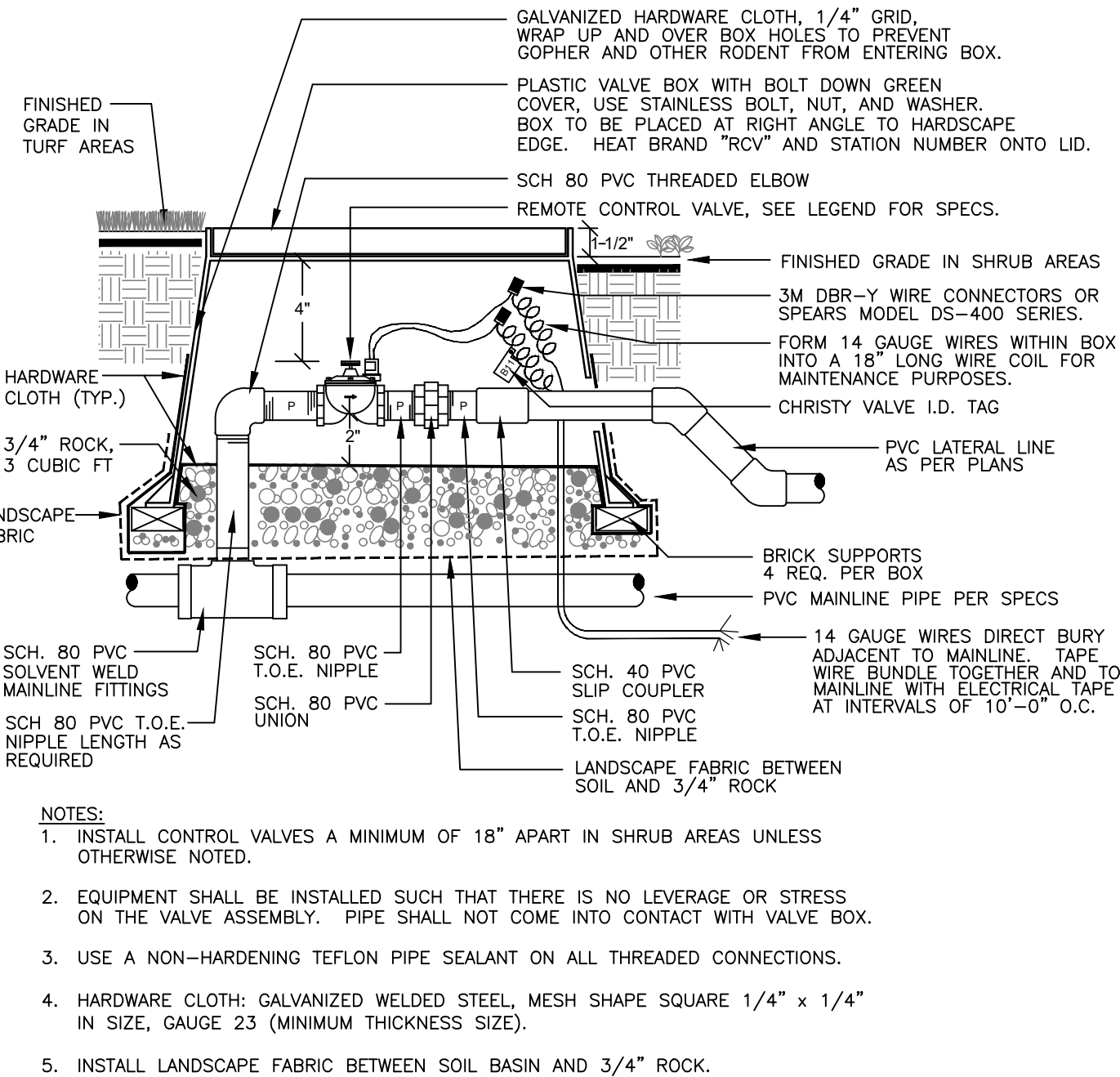
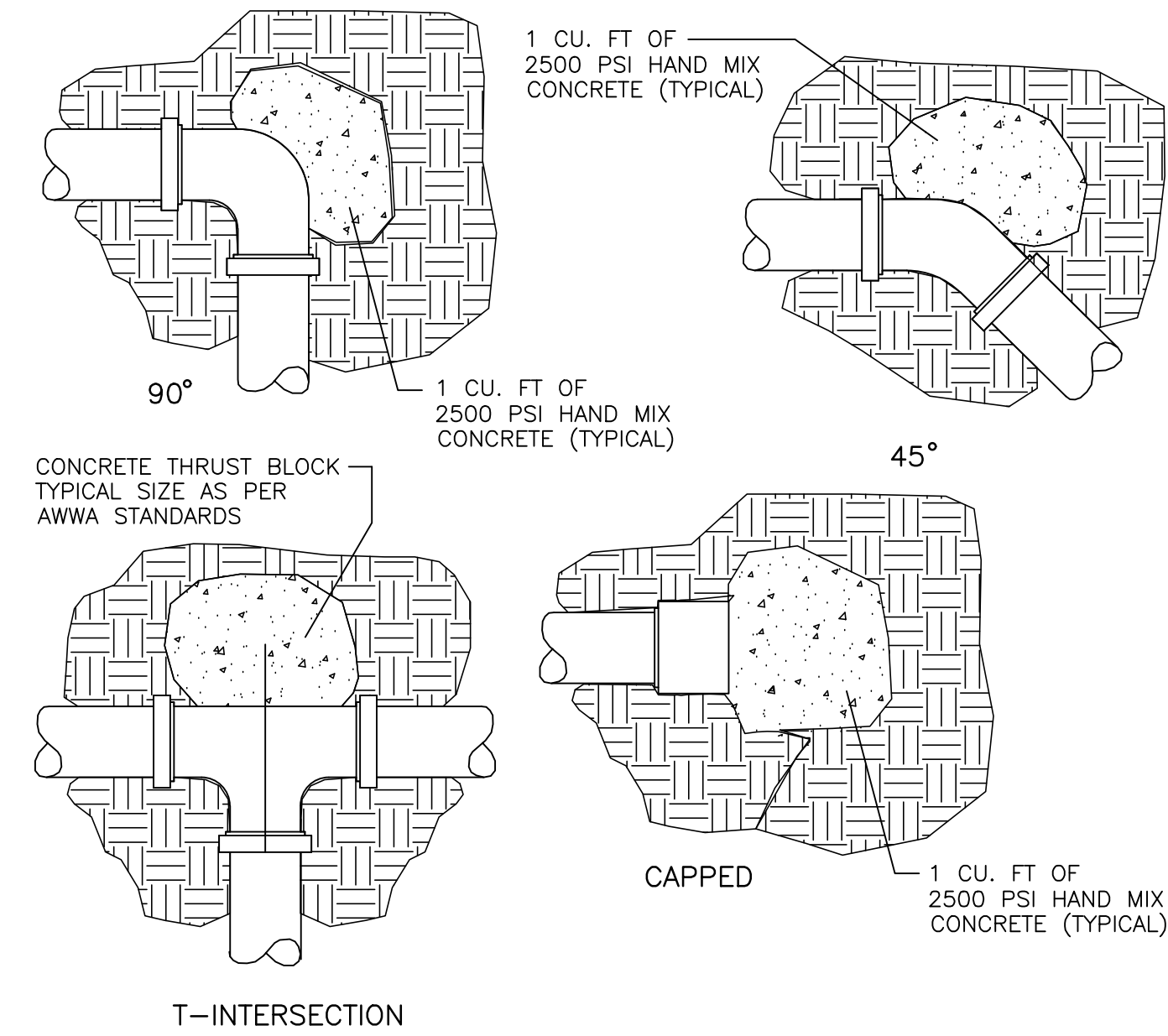
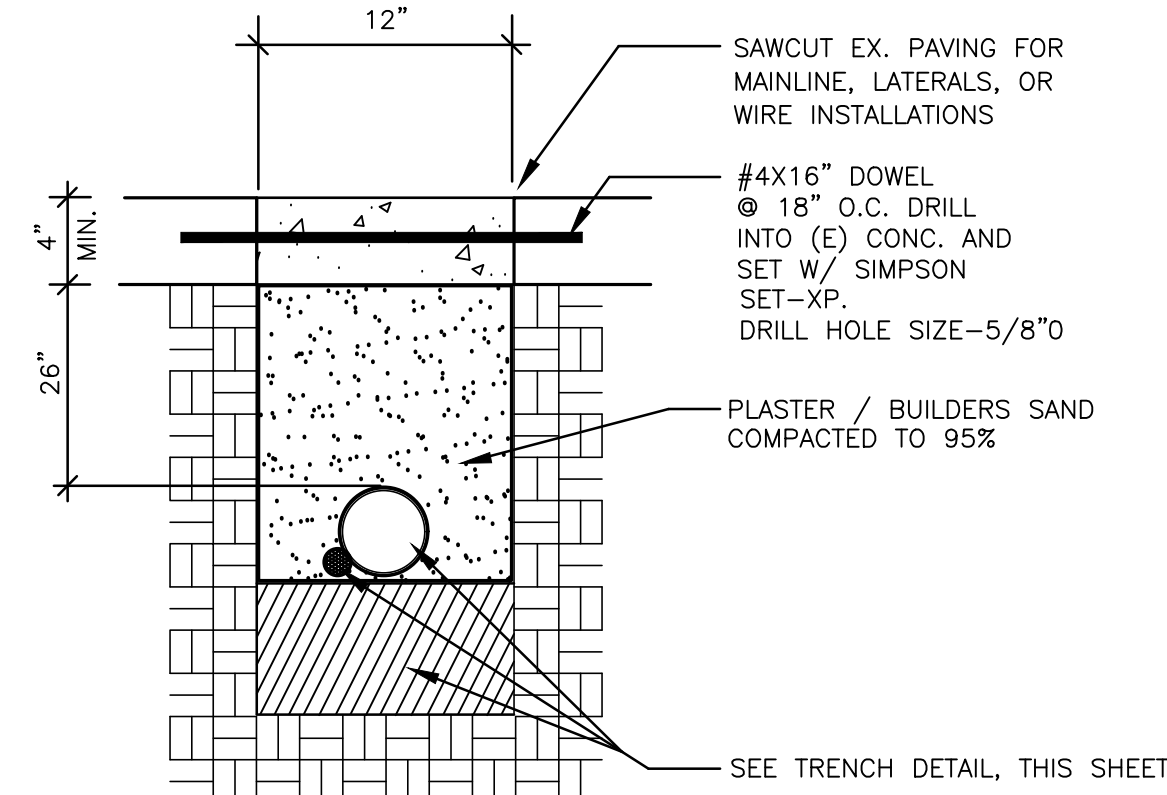
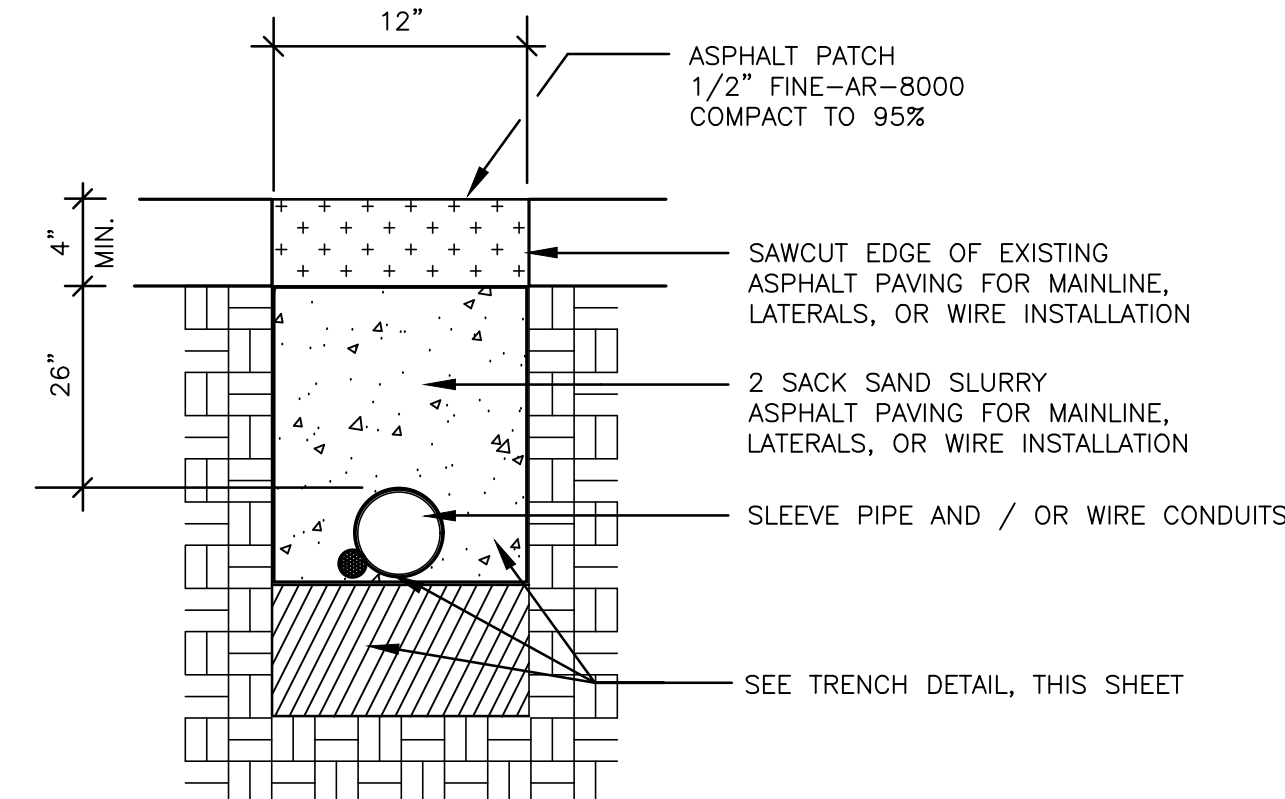
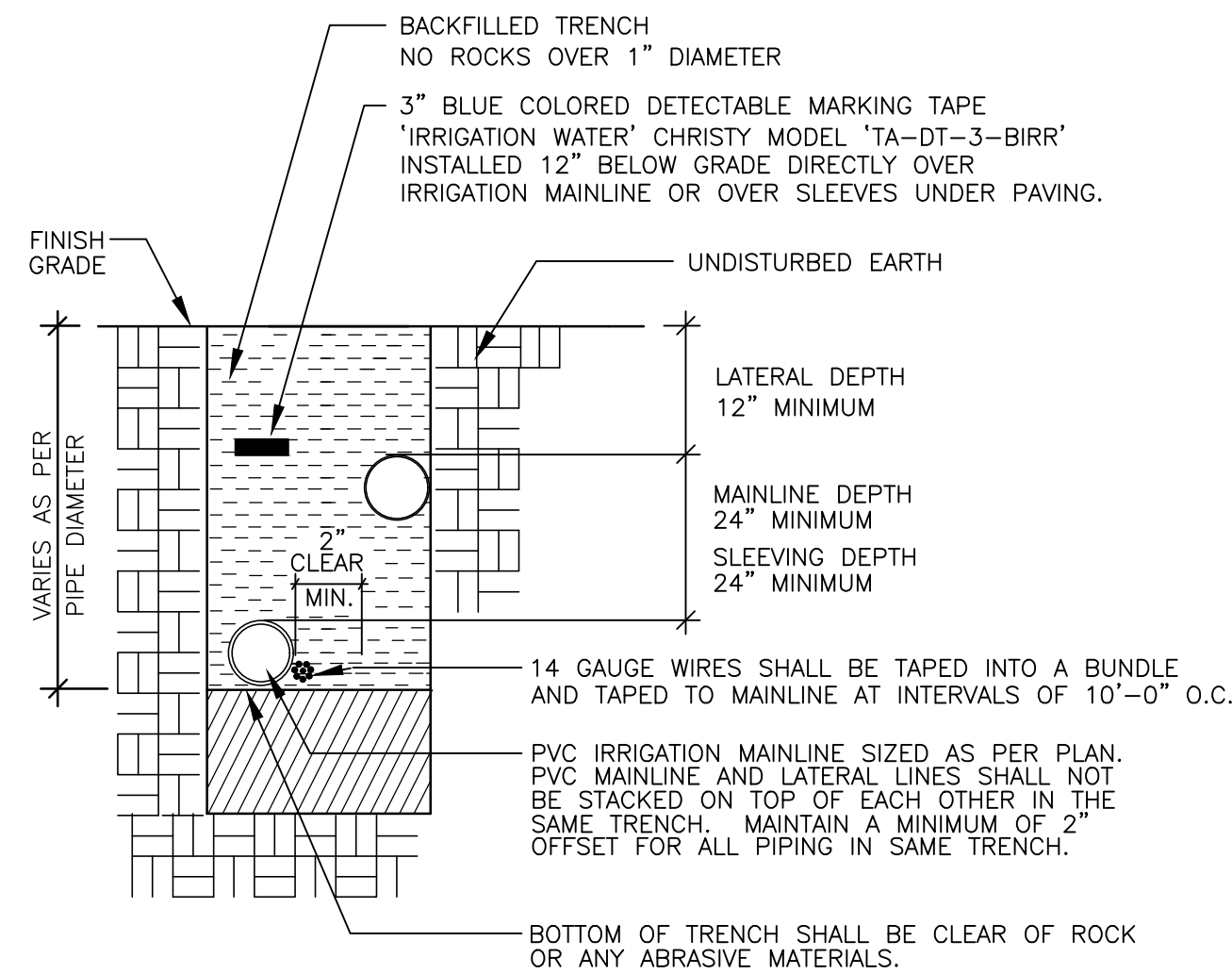
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PRINTED FOR BID:	2-02-26

DRAWING

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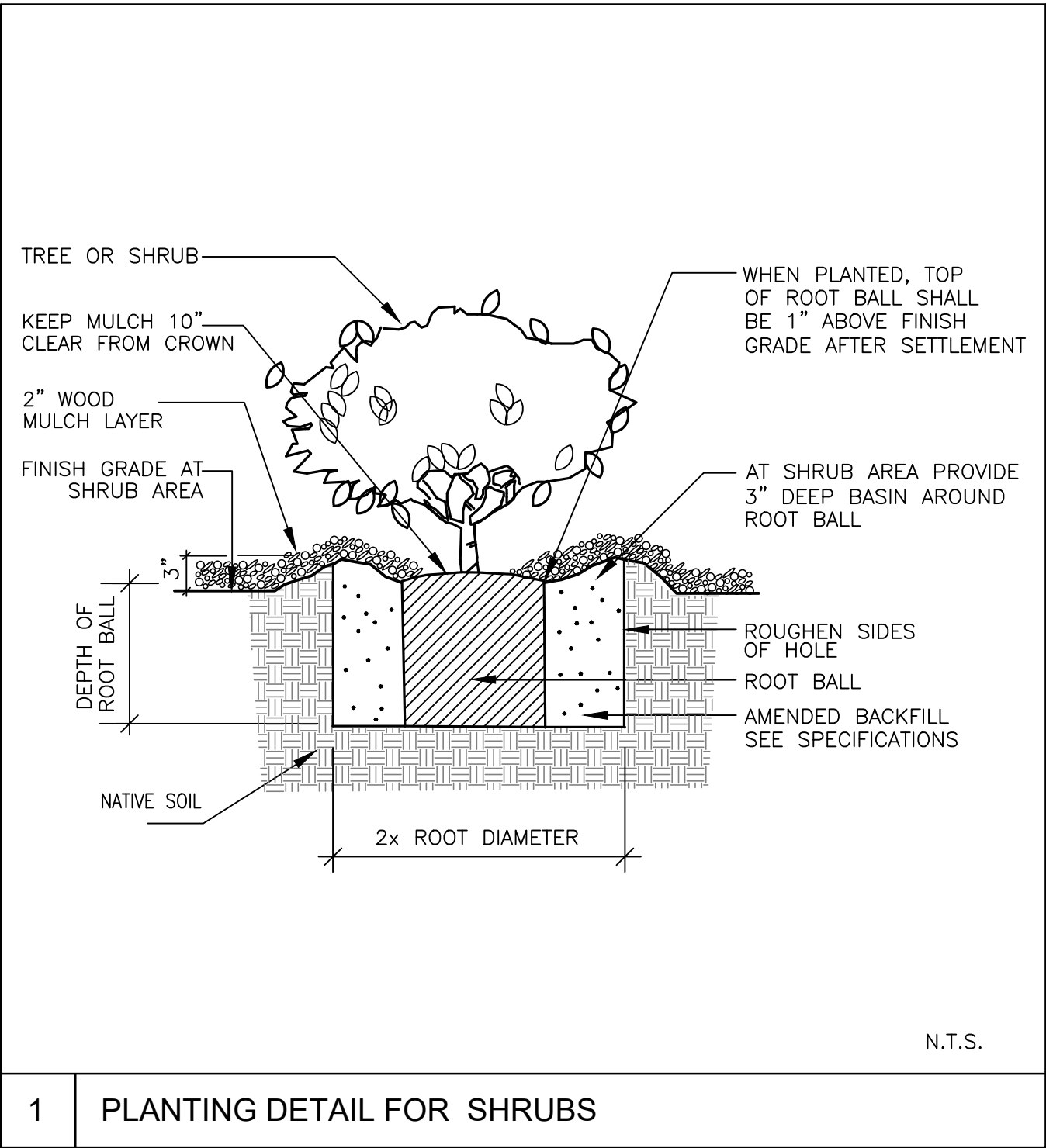
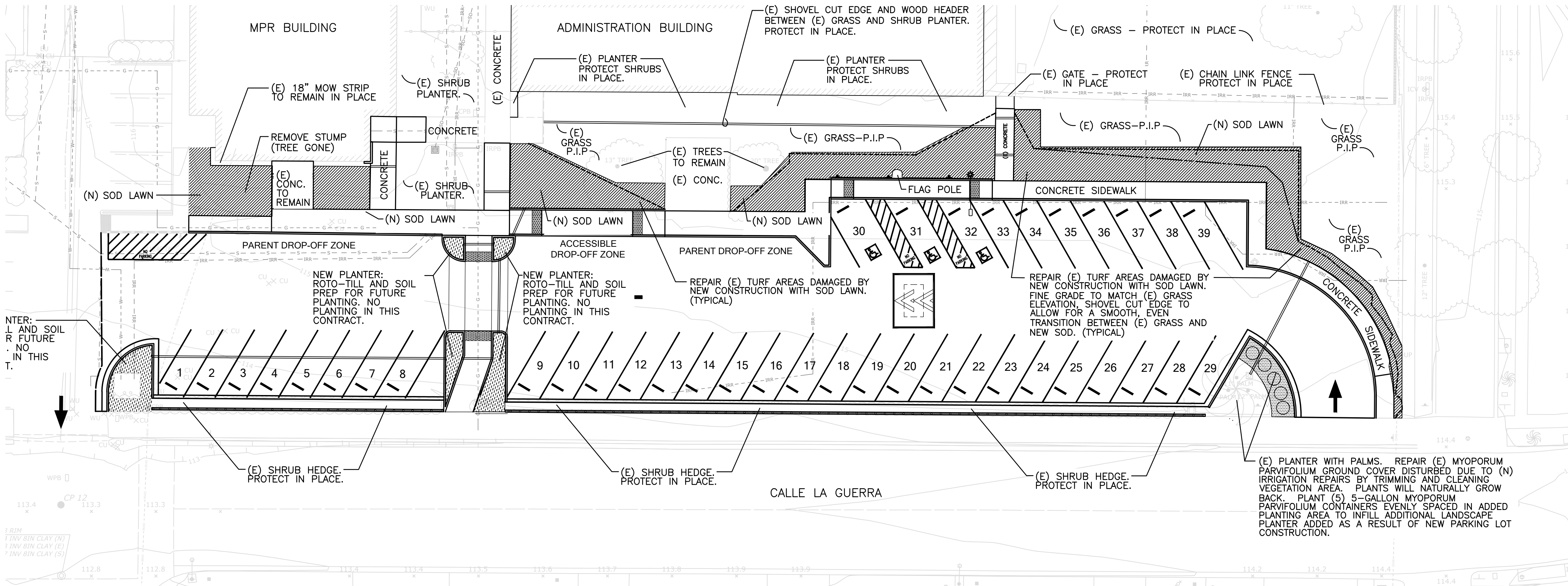
SHEET 3 OF 5

PROJECT No. 23.40



CLIENT
PLEASANT VALLEY
SCHOOL DISTRICT
600 TEMPLE AVE.
CAMARILLO, CA 93010

SHEET TITLE
LANDSCAPE DETAILS
PROJECT
**FB-26-03, Parking Lot Pavement &
AADA Pathway Replacement Project**
Las Posas Elementary School
75 EAST CALLE LA GUERRA
CAMARILLO CA 93010

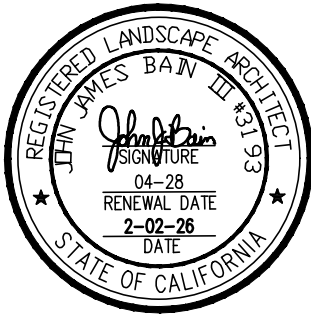


PLANTING LEGEND PREFERRED PVSD PLANTS		
SYMBOL	AREA	DESCRIPTION
	3,770 SF	SOD LAWN: SOUTHLAND SOD 'MARATHON II'. SCRAPE AND REMOVE (E) DAMAGED TURF FROM PLANTER. ROTO-TILL WITH SOIL AMENDMENTS PER SPECIFICATIONS. FINE GRADE TO MATCH ADJACENT (E) TURF AND CREATE POSITIVE DRAINAGE. INSTALL SOD AS PER GROWER'S SPECIFICATIONS.
	535 SF	SHRUB PLANTERS: ROTO-TILL AND INCORPORATE SOIL AMENDMENTS AS PER PROJECT SPECIFICATIONS. FINE GRADE TO CREATE POSITIVE DRAINAGE. PLANTERS THAT ARE ENCLOSED WITHIN PARKING LOT CURBS, KEEP SOIL LEVEL 2" BELOW TOP OF CONCRETE CURB. P.V.S.D. SHALL INSTALL PLANTS WITH WEED FABRIC AND MULCH IN COMPLETED PLANTERS IN THE FUTURE.
	200 SF	SHRUB PLANTER ENLARGED DUE TO NEW CONSTRUCTION: NEW PARKING LOT WILL INCREASE THE SQUARE FOOT AREA OF THE (E) PLANTER BY 200 SQUARE FEET. ROTO-TILL AND INCORPORATE SOIL AMENDMENTS AS PER PROJECT SPECIFICATIONS. FINE GRADE TO CREATE POSITIVE DRAINAGE. PLANTERS THAT ARE ENCLOSED WITHIN PARKING LOT CURBS, KEEP SOIL LEVEL 2" BELOW TOP OF CONCRETE CURB. PLANT (5) 5-GALLON MYOPORUM PARVIFOLIUM CONTAINERS, EVENLY SPACED IN NEW PLANTING AREA, TO MATCH EXISTING GROUND COVER AND FILL IN PLANTER.
	MEASURED IN FIELD BY CONTRACTOR	EXISTING GRASS REPAIR: AREAS WITHIN (E) GRASS THAT WILL BE DAMAGED DUE TO NEW IRRIGATION TRENCHING SHALL BE BACKFILLED AND COMPACTED TO MATCH EXISTING FINISH GRADES. HAND SEED STOVER SEED 'SPORTFIELD ELITE' AS PER SPECIFICATIONS OVER SOIL TRENCHES. COVER SEED WITH AN ORGANIC TOPPER TO HELP KEEP MOIST AND PROTECT FROM BIRDS. REFER TO IRRIGATION PLAN TO DETERMINE AMOUNT OF TURF REPAIR REQUIRED FOR THIS PROJECT.

GRAPHIC SCALE
0 10 20 40 60
SCALE: 1"=20'

UNDERGROUND SERVICE ALERT
CALL : TOLL FREE 1-800-422-4133 OR 811
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REVISIONS		
NO.	DATE	DESCRIPTION



CLIENT
**PLEASANT VALLEY
SCHOOL DISTRICT**
600 TEMPLE AVE.
CAMARILLO, CA 93010

SHEET TITLE
PLANTING PLAN
PROJECT
FB-26-03, Parking Lot Pavement & ADA Pathway Replacement Project
Las Posas Elementary School
75 EAST CALLE LA GUERRA
CAMARILLO, CA 93010

DRAWN: JB	CHECKED: JB	SUBMITTAL SET 2-02-26	PRINTED FOR BID: 2-02-26

GEOTECHNIQUES

1645 Donlon Street, Ste. 107
Ventura, California 93003
(805) 456-9585, (805) 658-8952

April 14, 2023 (rev. January 30, 2026)

Project No. 1025.003.03

Pleasant Valley School District
600 Temple Avenue
Camarillo, California 93021

Attention: Ms. Sandra Lovaas, Measure C Bond Manager

Subject: Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California

Dear Ms. Lovaas:

This geotechnical letter report provides recommendations for the preparation of subgrade in replacement and new pavement or landscape paver areas and construction of structural asphalt concrete pavement sections at Las Posas Elementary School, in Camarillo, California. Additionally, recommendations for the excavation and backfilling of trenches or below-grade structures or improvements are also provided. Our understanding of the proposed projects is based on discussions with Pleasant Valley School District ("PVSD") personnel and its Consultants, site observations, and laboratory testing on subgrade soil samples collected in conjunction with recent construction activity at the campus.

PROJECT SCOPE

With the exception of minor underground utility construction, site improvements at the subject campus will consist predominantly of on-grade concrete or pavers primarily for pedestrian use and replacement asphalt concrete in the main parking lot and access/egress driveways. Minor grading will be performed as needed to improve local gradients to achieve ADA compliance or enhance positive drainage in improvement areas.

SITE CONDITIONS

Surface conditions in areas of proposed improvements at Las Posas Elementary School consist of asphalt concrete in playground areas (typically between about 3 and 5 inches in thickness, and typically underlain by between about 3½ and 5 inches of [now 'dirty'] aggregate base), concrete sidewalks, and adjacent unpaved landscape planter and grass areas.

Subgrade soil below existing asphalt-concrete/aggregate base pavement consists of fine sandy silt with clay (ML). Subgrade soils are anticipated to be very moist, especially in unpaved areas, with moisture contents several percentage points above optimum.

Note that the moisture content of near-surface subgrade materials may vary with seasonal conditions including rainfall and irrigation intensity, or from other circumstances.

SITE SUBGRADE PREPARATION RECOMMENDATIONS

Areas to receive new asphalt concrete, on-grade concrete, or footings for short site walls shall be underlain by a minimum of 12 inches of subgrade compacted to a minimum of 95 percent of the maximum dry density determined according to ASTM D1557, measured from the lowest point of the thickened edge or below the aggregate base course.

Preliminary Site Preparation

Site irrigation shall be discontinued as far in advance as practicable prior to clearing, demolition, and excavation operations. Root mass from trees and shrubs and the root mat in lawn areas should be completely removed, stripped, and wasted offsite prior to utility trench or underground structure excavation, or earthmoving operations. Contractor should rip and cross-rip subgrade soil upon removal of asphalt concrete, concrete, or root mat in landscape areas to maximize aeration potential of subgrade soils. Excavations and depressions, either existing or from removal of root-balls, below grade structures or improvements, or footings, or from rutting from demolition and construction equipment trafficking shall not be filled in or smoothed over outside the presence of the Geotechnical representative.

Contractor shall avoid over-trafficking during demolition and subsequently in terms of applied pressure to subgrade (e.g., equipment type and weight) and repeated passes over ingress/egress and hauling lanes to prevent elevating subgrade moisture conditions and rutting. Contractor shall mitigate or repair any rutting and elevated moisture conditions from demolition or earthmoving equipment.

Subgrade Preparation

Asphalt Concrete and On-Grade Concrete and Paver Areas. Subgrade for asphalt concrete or on-grade concrete shall be excavated to a level corresponding to lowest level of asphalt concrete pavement or on-grade concrete section (including base course). The excavation shall be deepened, as necessary to remove organics, topsoil, and deleterious material and extend a horizontal distance of an additional 1 foot beyond the asphalt concrete or new concrete in unimproved areas. The exposed surface shall be observed by the Geotechnical representative prior to scarification of the exposed excavation bottom. Depending on the moisture content of the soils exposed in the excavation bottom, the upper 1 foot of subgrade shall be moisture-conditioned, likely aerated, to between 0 and 2 percent above optimum moisture content and processed by reducing scarified materials to pea-size or finer consistency. Excavation bottoms in silty and clayey subgrade areas likely shall require extended aeration periods (after scarification effecting pulverization) prior to compacting. Once the targeted moisture condition is achieved, processed materials shall then be compacted to a minimum of 95 percent of the maximum dry density determined by ASTM D1557, latest edition.

Areas to Receive Fill. The upper 1 foot in areas to receive fill shall be similarly scarified and compacted, as above, prior to fill placement.

Footing Areas. Footing areas to a distance of 2 feet beyond perimeter shall be overexcavated to a depth of 1 foot below bottom of footing. The bottom of the overexcavation shall be observed by the Geotechnical representative prior to placing fill. Fill shall be reduced to pea-sized or finer consistency, moisture conditioned or aerated, as needed, and compacted to a minimum of 95 percent of the maximum dry density determined by ASTM D1557, latest edition.

Alternatives to Subgrade Aeration and Subgrade Stabilization

An alternative to aeration consists of the treatment of onsite wet clayey materials with cement to reduce elevated in-place moisture content and to effect "bridging" over potentially yielding, unstable underlying subgrade materials. For silty and clayey subgrade treatment, 2 to 3 percent "quicklime" or 3 to 4 percent cement (by weight), shall be thoroughly mixed into the upper 1 foot of the excavation bottom in accordance with Sections 301-3.2.5 of the "Greenbook." The soil-cement mixture shall be moisture-conditioned and compacted to a minimum of 95 percent of the maximum dry density within 90 minutes of adding moisture to cement-treated soil and according to Section 301-3.2.7. The compacted soil-cement mixture shall be cured according to Section 301-3.2.10. At least 2 days of curing time shall be allowed prior to placement of general, select, or treated fill materials. This cement content is appropriate for low-contact pressure, lightweight equipment operation; heavier equipment and rubber tired equipment imposing higher contact pressures shall require higher cement concentrations—approaching 10 percent by weight (for a pavement recycler, for example)—and/or thicker treated zones in order to support heavier equipment loads during construction.

An alternative to cement treatment of subgrade consists of removal and replacement of the upper 1 foot of subgrade with aggregate base over Mirafi 600X, placed in accordance with the manufacturer's instructions, with the full thickness of aggregate base placed before trafficking with lightweight spreading and compacting equipment so that "bridging" is achieved and maintained over underlying very moist to saturated soil.

Cement-treatment and replacement with aggregate base alternatives both require that the Contractor employ appropriate minimal equipment loading (i.e., lightweight equipment and appropriate for materials affected) and trafficking reduction measures to maintain integrity of the compacted subgrade and overlying base courses through completion of concrete placement.

Contractor Awareness and Operations Considerations

The likelihood of encountering very moist subgrade soils should be factored into all aspects of demolition and construction to avoid exacerbating subgrade moisture conditions and inducing 'pumping' of subgrade materials.

Equipment loads during demolition and subgrade preparation in pavement and concrete improvement areas shall be minimized, as needed, to avoid increasing moisture content of exposed or underlying subgrade materials and in excavations and subsequently placed fill materials during fill placement and compaction. Examples of such excavating, spreading, processing and compacting equipment include low ground pressure track dozers or, to a greater extent, excavators or backhoes staged outside the excavation. Similar low or no-load means of compacting fill shall be used, as needed, including non-tired sheepfoot compactors for fine-grained subgrade materials. Care shall be exercised to avoid repeated passes over ingress or egress areas, and to avoid overworking or overloading any area such that pumping conditions and elevated moisture contents and/or rutting are induced by demolition and/or construction operations.

Aeration of subgrade soils should be initiated at earliest well-forecasted and practicable opportunity along with subsequent episodes of turning and/or cross ripping to maximize exposure to drying effects.

Lightweight equipment shall be used for placing and compacting subsequent lifts and courses, as needed, until "bridging" over potentially unstable pumping subgrade soil is accomplished and risk of aggravating moisture conditions with other equipment is low (i.e., the "bridging" effect is not destroyed by subsequent heavy or repeated loadings).

Contractor shall proof-roll both compacted subgrade and aggregate base course with fully-loaded water truck with no deflections in presence of geotechnical representative prior to placing base and asphalt concrete, respectively.

Fill Placement and Compaction

Onsite soils are anticipated to be used as general fill once cleared of organic material, demolition or other debris, and any oversized rock. Earth materials placed as fill or within the upper 12 inches of subgrade in asphalt concrete and on-grade concrete areas shall consist of onsite excavated general fill or imported non-expansive materials with an Expansion Index less than 40. Unless noted otherwise herein, the upper 1 foot of subgrade materials shall be compacted to a minimum of 95 percent of the maximum dry density determined from ASTM D1557.

Subgrade and onsite soils used as fill and imported fill materials shall be placed and compacted at a moisture content of between 0 and 2 percent over optimum moisture content. Each layer shall be spread evenly in loose lifts no thicker than 8 inches and shall be thoroughly blade-mixed during the spreading to reduce soil consistency to pea-size or finer and to provide relative uniformity of material within each layer. Fill and backfill materials may need to be placed in thinner lifts to achieve the recommended compaction with the equipment being used. Soft or yielding materials shall be removed and be replaced with properly compacted fill material, prior to placing the next layer.

Rock, gravel and other oversized material greater than 3 inches in diameter, shall be removed from the subgrade and fill material being placed. Rock less than 3 inches in diameter shall not be nested and voids caused by inclusion of rock in the fill shall be filled with sand or other approved material. All roots larger than ½-inch diameter shall be removed and discarded.

All subgrade and fill materials, including scarified materials, shall be thoroughly processed to pea-sized or finer consistency prior to aeration and applying compactive effort. Blading or turning wet soils shall be necessary to effect uniform aeration throughout the targeted layer of soil. When the moisture content of the fill material is below that sufficient to achieve the recommended compaction, water shall be added to the fill during processing. While water is being added, the soil shall be bladed and mixed to provide relatively uniform moisture content throughout the material. .

Surfaces shall be finished to uniform grades and slopes in accordance with contract documents and in such a manner to drain properly, convey runoff to existing and new drainage improvements, and be free from depressions that may cause areas of standing water or concentrates runoff on finished surface.

FILL MATERIALS

Fill shall be free of organics, oversize material (e.g., greater than 2 inches in diameter), trash and debris, and other deleterious material. The expansion index of imported materials or onsite materials used as general fill shall be tested, as necessary, during earthmoving

operations to verify that the expansion index of the material is suitable for its use as general or select fill.

Onsite Soils. Onsite soils are generally anticipated to consist predominantly of fine sand with silt and occasional clay that meets the requirements for general fill.

General Fill. General fill materials shall have an expansion index less than or equal to 40. If necessary, general fill may be blended with sand or dry cement just prior to compaction to reduce the expansion index.

There is a potential that silty and clayey onsite general fill materials, where encountered, could be sensitive to changes in moisture content. Control of moisture content, compaction layer thickness, and efficiency and appropriateness of equipment to soil type will likely be necessary to achieve and maintain the recommended compaction.

Imported Fill. Imported fill to be used as general fill shall meet the requirements of general fill material and shall be non-expansive. Imported fill materials shall be observed, tested as necessary, and accepted by Geotechniques prior to being brought to the site.

Aggregate Base. Aggregate base materials shall consist of imported material conforming to Caltrans Standard Specifications for Class 2 aggregate base, Section 26-1.02B [Caltrans, 2024] or Section 200-2.4 of the "Greenbook" (Public Works Standards, Inc., latest edition) for Crushed Miscellaneous Base (CMB).

The aggregate base course beneath the concrete section shall be moisture conditioned to optimum moisture content before placing and spreading and shall be compacted to a minimum of 95 percent of the maximum dry density. Aggregate base materials shall be laterally confined during compaction to achieve the minimum compaction requirements adjacent to the thickened concrete edge.

Aggregate base materials used beneath on-grade concrete and as bedding or backfill in utility trenches or excavations *in areas other than previously or currently paved in asphalt concrete* shall not contain recycled asphalt.

Bedding Sand in Utility Trenches. Sand used as bedding and pipe zone sand in utility trenches shall conform to Caltrans Standard Specifications for sand bedding, Section 19-3.02F(2) (2024) and have a minimum Sand Equivalent (SE) of 30. The sand shall have a gradation that allows the material to maintain a compacted surface condition during construction operations until concrete placement or until pipe and/or subsequent lift placement (i.e., as bedding or pipe zone sand in utility trench).

ASPHALT CONCRETE AND ON-GRADE CONCRETE SECTION THICKNESS

Subgrade for asphalt concrete and on-grade concrete to receive rare fire truck traffic should be prepared as recommended previously (see "**SITE SUBGRADE PREPARATION RECOMMENDATIONS**"). Subgrade and aggregate base courses shall be firm and unyielding and proof-rolled with a full water truck or equivalent in the presence of the Geotechnical representative prior to placement of the successive structural section course (i.e., aggregate base or asphalt concrete or concrete).

Surfaces shall be finished to uniform grades and slopes in accordance with contract documents and in such a manner to drain properly, convey runoff to existing and new drainage

improvements, and be free from depressions that may cause areas of standing water or concentrates runoff on finished surface.

Asphalt Concrete Pavement. Asphalt concrete pavement sections for replacement and for areas to receive potential fire truck/bus access or only auto access (such as parking stalls between planter islands, for example), at a minimum, shall consist of the following:

Pavement Area	Asphalt Concrete Thickness (inches)	Aggregate Base Thickness (inches)
Ingress/Egress Truck/Bus Lanes	4	8
Auto Only Areas	3	6

Aggregate base should be compacted to a minimum of 95 percent of the maximum dry density. The base course should be firm and unyielding when proof-rolled with a full water truck in the presence of the Geotechnical representative prior to asphalt concrete laydown.

Asphalt concrete using coarse aggregate (such as ¾-inch) with low loss from abrasion is preferred over coarse C1 in the mix design for planned and future potential drive lanes to receive bus/truck traffic. Geotextile such as Mirafi 800x is recommended to be placed in accordance with manufacturer's instructions immediately below the aggregate base course. In areas to receive at least 8 inches of base. Asphalt concrete should be compacted to a minimum of 95 percent of the maximum density.

ON-GRADE CONCRETE AND CONCRETE PAVEMENTS

On-grade concrete section thickness for exclusively pedestrian use such as sidewalks and curbs should consist, at a minimum, of 4 inches of concrete over 4 inches of aggregate base compacted to a minimum of 95 percent of the maximum dry density.

Concrete Pavement Structural Sections. On-grade concrete to receive vehicular traffic, including pavement that may be used for fire truck access, should consist of a minimum of 6 inches of concrete over a minimum of 6 inches of aggregate base compacted to 95 percent of the maximum dry density. (Note that concrete to receive fork-lift traffic and routine truck traffic for deliveries or in trash dumpster areas should be at least 7 inches thick, depending on traffic index [TI].) Concrete should have a minimum 28-day compressive strength of 3,500 psi, a minimum Modulus of Rupture of 530 psi, and should be reinforced with No. 4 bars at 18 inches each way. Reinforcement should be supported at mid-slab at time of concrete pour. (Note that this structural section is not intended for exclusively pedestrian use.)

UTILITY TRENCHES AND EXCAVATION

Utility trenches shall be braced or sloped in accordance with the requirements of (Cal) OSHA. Utility trench backfill shall be governed by the provisions of this report relating to minimum compaction recommendations.

Prior to excavation, the grass and root mat shall be stripped and wasted (or set aside for reuse at surface upon completion of backfilling trench) along the trench alignment and in excavation stockpile areas.

Excavations and trenches shall be sufficiently wide to accommodate equipment size needed for proper compaction of bedding, pipe zone and backfill materials. Trench and excavation bottoms shall be excavated to a firm uniform bottom free of loose, disturbed material and observed by the Geotechnical representative prior to placement of bedding. Aggregate base materials may be used as bedding, as required, to mitigate soft, yielding excavation bottoms, where encountered.

Trench backfill shall be moisture conditioned between 0 and 2 percent over optimum moisture content prior to placing in trench. Backfill shall be compacted to a minimum of 90 percent relative compaction as determined from ASTM D1557, and 95 percent within the upper 1 foot of subgrade in pavement or on-grade concrete areas, or within a 1h:1v influence zone of footings¹.

Rock larger than 3 inches in maximum dimension shall be excluded from backfill. Jetting of trench backfill materials shall not be permitted.

Trench backfill materials shall consist of bedding and pipe zone sand placed a minimum thickness of 4 inches below the pipe invert and to a height of 12 inches above the top of the pipe. Bedding and pipe zone sand shall consist of fine to medium or coarse sand with a minimum Sand Equivalent (SE) of 30. General fill or pipe zone sand shall be placed as backfill above the pipe zone in 8-inch loose lifts and compacted to the minimum relative compaction summarized above. General backfill materials shall meet the preceding recommendations of this report, "Fill Placement and Compaction" and "Fill Materials."

CLOSURE

The recommendations in this letter are specific to the scope of the proposed on-grade concrete, replacement asphalt concrete, underground utility and site improvements summarized herein. The presence of hazardous and/or toxic materials is not within the scope of services provided for this study.

We appreciate the opportunity to be of service to Pleasant Valley School District. Please call if you have any questions concerning this letter report.

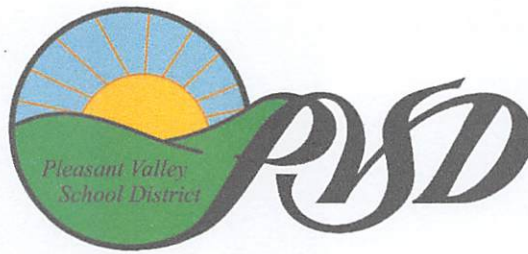
Sincerely,

Geotechniques



Carole Wockner, P.E.
Principal Engineer
R.C. E. No. 74407, exp 09/30/27

¹ Where this is not feasible because of access constraints or for expediency, a 1½-sack cement and sand slurry may be used.



SPECIFICATIONS
FOR THE
PARKING LOT PAVEMENT & ADA PATHWAY REPLACEMENT
AT
LAS POSAS ELEMENTARY SCHOOL
75 CALLE LA GUERRA
CAMARILLO, CALIFORNIA 93010
FOR:
PLEASANT VALLEY SCHOOL DISTRICT
600 TEMPLE AVENUE
CAMARILLO, CA 93010

FEBRUARY 18, 2026

**Bid FB-26-03, Parking Lot Pavement and ADA Pathway Replacement Project,
Las Posas Elementary School**

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**SECTION 01 10 20
FENCING AND PROTECTION**

PART 1 GENERAL

1.01 SECTION INCLUDES

 This section includes requirements for temporary fencing and protection of the work area.

1.02 SUBMITTALS

 Submit for approval, all catalog cuts and or specification sheet for all fencing products.

1.03 QUALITY ASSURANCE

 Fencing shall be installed by a qualified fence company with experience in the installation of temporary fencing.

PART 2 PRODUCTS

2.01 TEMPORARY FENCING

 Temporary fencing shall be 6 feet high chain link fence fabric attached to post and frames in a secure manner. Barb wire and or razor wire is not allowed. Fencing shall be kept in place during the construction period and maintenance period. Fencing shall be removed only when written authorization is provided by the District.

PART 3 EXECUTION

3.01 FENCE LAYOUT

 Contractor shall submit to the District for approval, a schematic fence layout showing the location of fence panels and method of attachment of panels and post. This plan must be approved by the District prior to start of the work.

3.02 FENCE INSTALLATION

- A. Install fencing and post so that no damage occurs to the existing underground conduits or paving. Immediately repair all damage to the existing conditions that may occur as a result of the fence installation.

- B. If fencing panels have post with a horizontal support frame, make sure they are visually apparent to prevent any trip hazard.

3.03 FENCE REPAIR

Immediately repair any damage to the fencing that may occur.

END OF SECTION 01 10 20

SECTION 02 41 10 MISCELLANEOUS REMOVALS

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes specifications for the removal of the existing concrete paving, asphalt paving, landscaping, and miscellaneous items.

1.02 REFERENCE STANDARDS

The "Greenbook" Standards and Specifications for Public Works Construction as referenced in the Specifications.

1.03 IMPORT SOIL

The source of any required Imported soil shall be tested and approved by the District prior to any delivery.

1.04 DISPOSAL OF MATERIALS

Remove items such as landscape materials, concrete paving, asphalt paving, and all other miscellaneous items scheduled to be removed shall be properly disposed of as they accumulate. Do not store or permit debris to accumulate on the site.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

3.01 INSPECTION

- A. Prior to starting, inspect the site with the District Inspector to verify all removals required to complete the work.
- B. Examine surfaces for conditions that will adversely affect execution, permanence, and quality of work of this Section.
- C. Do not proceed with work until unsatisfactory conditions have been corrected.
- D. Locate existing active utility lines and provide for their protection.

3.02 CLARIFICATION

Drawings do not indicate all objects existing on site. Before commencing work, verify with the District any existing items that may affect the work.

3.03 PROTECTION OF UTILITIES

- A. Preserve and maintain, in working condition, all active utilities traversing the site. Re-route or remove and cap those which interfere with work of this Project. Coordinate extent of this work with the District.
- B. Expeditiously repair damaged utilities at no cost to the District.

3.04 PROTECTION OF EXISTING PLANTS

Protect existing trees, not otherwise indicated to be removed, against unnecessary cutting, or breaking, skinning, and bruising of bark. Avoid smothering of trees with stockpile building materials or excavated materials within drip line.

3.05 DISPOSAL

- A. All debris resulting from demolition and removals shall become the property of the Contractor to dispose of or salvage. Debris shall not be allowed to accumulate on site unless the District specifies a site location and security requirement. The Contractor shall be responsible for its prompt removal from the site and disposal in a legal manner.
- B. Prevent debris from migrating outside of construction areas.
- C. Maintain safe pedestrian access, at all times, on all walkways adjacent to the fence removals.

END OF SECTION 02 41 10

SECTION 31 10 00

SITE CLEARING

PART 1 – GENERAL

1.01 SUMMARY

- A. This Section requires the selective removal and subsequent off-site disposal of the following:
 - 1. Removal and disposal of all abandoned pipe and conduit except for pipe or conduit indicated specifically on plans for abandonment in place.
 - 2. Removal and offsite disposal of grass and root mat.
 - 3. Demolition of asphalt concrete and pavements as indicated on the drawings to straight, neatly saw cut surface.
 - 4. Trees as indicated on plans, completed including roots.
 - 5. All other removals which may or may not been shown on plans as required for the project construction.

1.02 SITE CONDITIONS

- A. **Protections:** Contractor shall provide temporary barricades and other forms of protection to protect general public from injury due to demolition work.
- B. **Traffic:** Conduct demolition operations and debris removal to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities. Access must be coordinated with District's Representative.
- C. **Utility Services:** Maintain all existing utilities to remain in service and protect them against damage during demolition operations.
- D. **Environmental Controls:** Use water sprinkling, temporary enclosures, and other methods to limit dust and dirt migration. Comply with governing regulations and County Air Pollution Control District pertaining to environmental protection. Do not use water when it may create hazardous or objectionable conditions such as flooding and pollution.

1.03 REFERENCES

- A. Standard Specifications for Public Works Construction (Green Book), latest edition.

PART 2 – PRODUCTS (NOT APPLICABLE)

PART 3 – EXECUTION

3.01 DEMOLITION

- A. General: Perform demolition work in a systematic manner. Use such methods as required to complete work indicated on drawings in accordance with governing regulations.
- B. Provide services for effective air and water pollution controls as required by County Air Pollution Control District regulations.
- C. Prior to commencing grading operations, soil containing debris, organics, pavement, or other unsuitable materials, shall be stripped from the foundation and pavement areas. Demolition areas shall be cleared of old foundations, slabs, abandoned utilities, tree roots, and soil disturbed during the demolition process. Depressions or disturbed areas left from the removal of such material shall be replaced with compacted fill under observation by the Geotechnical representative.
- D. Concrete sidewalks will be removed to the nearest construction or expansion joint to the limits of removal as shown on the plans. Exact locations will be determined in the field by the District's Representative.

3.02 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove from Project site debris, rubbish, and other materials resulting from demolition operations. Transport and legally dispose of off site.
- B. If hazardous materials are encountered during demolition operations, contact District's Representative.
- C. Burning of removed materials is not permitted on project site.

3.03 HAZARDOUS MATERIALS

- A. Except as otherwise specified, in the event Contractor encounters on the Project site material reasonably believed to be asbestos, polychlorinated biphenyl (PCB), or other hazardous materials which have not been rendered harmless, Contractor shall immediately stop Work in the area affected and report the condition to the District's Representative in writing. The Work in the affected area shall not thereafter be resumed except by written agreement of the Contractor if in fact the material is asbestos, PCB, or other hazardous materials and has not been rendered harmless. The Work in the affected area shall be resumed in the absence of asbestos, PCB, or other hazardous materials, or when such materials have been rendered harmless.

- B. Construction involving asbestos cement (transite) pipe shall be performed by qualified personnel in accordance with the standards and specifications set forth by American Water Works Association (AWWA), the Occupational Safety and Health Act (OSHA) and the Environmental Protection Agency (EPA), as well as location jurisdictional codes.

3.04 CLEANUP AND REPAIR

- A. General: Upon completion of demolition work, remove tools, equipment and demolished materials from site.
 - 1. Repair demolition performed in excess of that required. Return elements of construction and surfaces to existing condition prior to start of operations. Repair adjacent construction or surfaces soiled or damaged by demolition work.

END OF SECTION 31 10 00

**SECTION 31 20 00
EARTHWORK**

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: Excavation, Compaction and Fill.

1.02 REFERENCE

- A. Standard Specifications for Public Works Construction (SSPWC), latest edition.
- B. Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California, dated April 14, 2023 (rev. January 30, 2026), Project No. 1025.003.03, prepared by Geotechniques, and shall be superseded by the most current version.

1.03 QUALITY ASSURANCE

- A. Codes and Standards: Perform earthwork in compliance with applicable requirements of governing authorities having jurisdiction.
1. Standard Specifications for Public Works Construction (SSPWC), latest edition.
 2. CAL/OSHA Construction Safety Order Requirements.
- B. Soil Testing Service
1. The District's Representative will engage a soil testing service to include testing soil materials proposed for use in the Work and for quality control testing during grading operations.
 2. Samples of materials shall be furnished to the testing service by the Contractor at least one week before their anticipated use.
 3. Work for this Section includes smoothing out areas for density tests and otherwise facilitate testing work, as directed.
 4. Shoring Systems: Pre-engineered systems, clearly labeled as such, may be used. Refer to the Geotechnical Recommendations for further requirements.

1.04 PROJECT CONDITIONS

- A. The Contractor shall visit the site and familiarize with existing site conditions.

- B. Additional test borings and other exploratory operations may be made by the Contractor at no cost or liability to the District.
- C. Existing Utilities:
 - 1. Where uncharted or incorrectly charted piping or other utilities are encountered during excavation, consult District's Representative immediately for directions. Cooperate with the District's Representative in keeping respective services and facilities in operation. Repair damaged utilities to the satisfaction of the District's Representative at no cost to the District. Disturbed trench sections shall be replaced in kind.
 - 2. Contractor to coordinate with the District's Representative to obtain all required permits and schedule inspections.
- D. Protection of Subgrade: Do not allow equipment to pump, rut, or disturb subgrade, stripped areas, or other areas prepared for Project.
- E. Contractor shall implement measures to prevent soil erosion, and where possible, sediment shall be retained onsite.
- F. Contractor shall implement all necessary recommendations contained in the Geotechnical Recommendations.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.01 SITE PREPARATION

- A. General:
 - 1. Remove vegetation, improvements, or obstructions interfering with installation of new construction. Transport and legally dispose of off site. Removal includes stumps and roots. Contractor shall utilize the best construction method to minimize the erosive effect from the removal of site vegetation.
 - 2. Excavation bottoms and depressions resulting from demolition or removal of below-grade structures or root balls shall be observed by the Geotechnical representative prior to filling.
 - 3. Carefully and cleanly cut roots and branches of trees indicated to be left standing, where such roots and branches obstruct new construction. Paint cuts over one inch in size with tree pruning compound. Care shall be taken so as not to scar any area of the tree's bark.
 - 4. In order to protect from sediment transfer or contamination from urban run-off during construction, the following grading and erosion control practices shall be followed:

- a. If grading occurs during the rainy season (November through April), sediment traps, barriers, covers or other methods shall be used to reduce erosion and sedimentation.
- b. Excavated materials shall not be deposited or stored where the material can be washed away by high water or storm run-off.
- c. Grading operations on site shall be conducted so as to prevent damaging effects of sediment production and dust on the site and on adjoining properties.
- d. When vegetation has to be removed on site, the methods shall be one that minimizes the erosive effects from the removal.
- e. Exposure of soil to erosion by removing vegetation shall be limited to the area required for construction operations. The construction area shall be fenced to define the project.
- f. Temporary mulching, seeding, or other suitable stabilization shall be used to protect areas during construction or other land disturbance activities on site.
- g. Topsoil, removed from the surface in preparation for grading and construction activities on Campus is to be stored on or near the site and protected from erosion while grading operations are underway, provided that such storage may not be located where it would cause suffocation of root systems of trees to be preserved. After completion of such grading, topsoil is to be restored to exposed cut and fill embankments of building pads so as to provide a suitable base of seeding and planting.
- h. Sediment basins, sediment traps, or similar control measures shall be installed before extensive clearing and grading operations begin for site development.
- i. Water or dust palliatives shall be applied to exposed earth services as necessary to control dust emissions.
- j. Revegetation or stabilization of exposed earth surfaces shall take place as soon as possible.

B. Removals

- 1. Clear the site of trees, shrubs, and other vegetation, which is indicated to be removed.
- 2. Completely remove stumps, roots, and other debris to avoid problems with future utilities.
- 3. Use only hand methods for grubbing inside the drip line of trees indicated to be left standing.

4. Existing fills, soil containing debris, organics, pavement, or other unsuitable materials shall be excavated and removed prior to commencing grading operations. Demolition areas shall be cleared of old foundations, slabs, abandoned utilities, landscaping, and soils disturbed during the demolition process. Depressions or disturbed areas left from the removal of such material shall be replaced with compacted fill after observation by the Geotechnical representative.
5. The limits and depths for removal of existing materials for subgrade preparation shall be consistent with the Geotechnical recommendations. Removals shall be wide enough to accommodate the compaction equipment being used.
6. Revegetation or stabilization of exposed earth surface shall take place as soon as possible.

C. Removal of Improvements

1. Remove above-grade and below-grade improvements necessary to permit construction and other work as indicated.
2. Remove from site and legally dispose of off-site, existing fill materials, soil debris, or other unsuitable materials prior to commencing grading operations.

3.02 EXCAVATION

- A. Excavation for Pavements: Cut surface under pavements to comply with cross-sections, elevations and grades as shown.
- B. Excavation for Planting Areas: Conform to cross-sections, elevations and dimensions shown, within a tolerance of plus or minus 0.10 foot.

3.03 COMPACTION

- A. General: Control soil compaction during construction providing minimum percentage of density specified for each area, under the provisions of the Geotechnical Recommendations.
- B. Percentage of Maximum Density Requirements: Compact soil to not less than the percentages of maximum dry density specified in the Geotechnical Recommendations and in accordance with ASTM D1557-91 method of compaction.
- C. Moisture Control:
 1. When moisture content of exposed scarified soil and/or fill material is below that sufficient to achieve recommended compaction, water shall be added to the soil and/or fill. While water is being added, soil shall be bladed and mixed to provide relatively uniform moisture content throughout the material.

2. When moisture content of exposed scarified soil and/or fill material is excessive, material shall be aerated by blading or other methods. Fill placed in pavement areas shall be compacted at near optimum moisture content. Jetting is not permitted for compaction.

3.04 FILL

- A. In all excavations, use satisfactory excavated or borrow material sampled and tested by the District's Testing Laboratory. Fill selection shall be per Geotechnical Recommendations.
- B. Fill excavations as promptly as Work permits, but not until completion of the following:
 1. Observation of excavation bottom by Geotechnical Representative.
 2. Acceptance by District's Representative of construction below finish grade including, where applicable, waterproofing, damp-proofing, and drainage pipe.
 3. Examination, testing, approval and recording locations of underground utilities.
 4. Removal of concrete formwork.
 5. Removal of shoring and bracing and backfilling of voids with satisfactory materials.
 6. Removal of trash and debris.
 7. Permanent or temporary horizontal bracing is in place on horizontally supported walls.
 8. Protect excavations by methods required to prevent cave-in or loose soil from falling into excavation.
 9. Protect improvements and structures from lateral and vertical movements adjacent to excavations.
- C. Continual dust control, as required by the District, and in accordance with County Air Pollution Control District's Standards shall be required for the project construction.

3.05 GRADING

- A. General: To provide support for slabs and walls, all existing fill and unsuitable natural soils shall be excavated and replaced as properly compacted fill.
- B. Compaction: After grading, compact subgrade surfaces to the depth and percent relative compaction for each area classification.

- C. Fill placement and grading operations shall be performed only under the observation of the District's Testing Laboratory.
- D. The exterior grades around building areas shall be sloped to drain away from the buildings to prevent ponding of water adjacent to foundations.
- E. Grading operation shall be conducted so as to prevent damaging effects of sediment product and dust on the site and adjoining properties.

3.06 DISPOSAL OF EXCESS AND WASTE MATERIALS

Transport excess excavated material and legally dispose of offsite.

3.07 FIELD QUALITY CONTROL

- A. Quality Control Testing During Construction: District 's Testing Laboratory will observe, test and approve subgrades and fill layers before further construction Work can be performed. The District's Representative will determine the frequency of tests. Subgrade: Allow at least one field density test of subgrade to be made for every 2000 sq. ft. of paved area, but in no case less than 3 tests.
- B. Field examination and testing will be performed by the District's Testing Laboratory. The Contractor shall cooperate with such testing and shall give the District's Representative advance notice of grading scheduling.
- C. Frequency of Tests for Trenching: As specified in Geotechnical Recommendations and as determined by the District's Representative.
- D. If in the opinion of the District's Representative, based on soil testing reports and observations, subgrades or fills which have been placed are below specified density, provide corrective work as specified at no additional expense to the District, and pay for retesting of the soil.

3.08 PROTECTION

- A. Protect newly graded areas from traffic and erosion. Keep free of trash and debris.
- B. Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerances.
- C. Reconditioning Compacted Areas: Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify surface, reshape, compact to required density and provide other corrective work as specified, with retesting, prior to further construction.

END OF SECTION 31 20 00

**SECTION 31 23 33
TRENCHING AND BACKFILLING**

PART 1 GENERAL

1.01 SUMMARY

PART 1 - References, submittals, and existing utilities.

PART 2 - Trench backfill materials.

PART 3 - Excavating trenches, backfilling, and compacting requirements.

1.02 REFERENCES

- A. Standard Specifications for Public Works Construction (SSPWC), latest edition.
- B. Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California, dated April 14, 2023 (rev. January 30, 2026), Project No. 1025.003.03, prepared by Geotechniques, and shall be superseded by the most current version.

1.03 SUBMITTALS

- A. Materials source and specifications.
- B. Sand equivalent test reports per ASTM D2419.
- C. Certificates.
- D. Drawings for shoring, bracing, sloping, or other provisions for worker protection for any excavation shall conform to the requirements of the CAL/OSHA Construction Safety Orders Requirements.

1.04 EXISTING UTILITIES

- A. Drawings show existing major underground utilities from reference drawings. Prior to excavation, the Contractor shall notify the District's Representative to obtain any additional information which may be applicable to the Work.
- B. Any incident of a utility being inadvertently damaged by the Contractor shall be immediately shutoff and then be immediately repaired by the Contractor at no cost to the District.
- C. Contractor to pothole all utility connections and verify exact size, location and material prior to beginning construction and notify engineer of any discrepancies.

PART 2 MATERIALS

2.01 APPROVALS

Imported material shall be approved by the District's Representative prior to being brought to the site. Provide a sample of the material in sufficient quantity for the District's Representative's use in evaluating the material.

2.02 TRENCH BACKFILL MATERIAL

- A. Sand bedding shall have a sand equivalent (SE) of 30 or greater. The SE shall be evaluated during grading. Materials shall conform to SSPWC Section 217-1 and the specification of the Geotechnical Recommendations.
- B. Backfill material shall conform to the requirements of Section 217-2 of the SSPWC.
- C. Aggregate base course shall be per Plan.
- D. Topsoil removed from trenches shall be stockpiled at locations approved by the District's Representative.

2.03 SOURCE QUALITY CONTROL

- A. Inspection and testing shall be performed by the District's Representative.

PART 3 EXECUTION

3.01 PREPARATION

Identify required lines, levels, contours, and datum.

3.02 TRENCH EXCAVATION

- A. Strip grass and root mat and separate from stockpiled soil to be used as backfill over pipe zone sand. Spread stockpiled soils to aerate, if necessary.
- B. Trench/excavation width should be wide enough to accommodate the compaction equipment being used.
- C. All saw cutting shall be neat, straight cuts and shall conform to Section 306-3 of the SSPWC. All cuts shall be square unless otherwise specifically noted on plans.
- D. Trench excavation shall conform to Section 306-3 of the SSPWC and the following requirements:
 - 1. The bottom of the trench shall be graded and prepared to provide a firm and uniform bearing throughout the entire length of the pipe barrel. Suitable excavations shall be made to receive the bell of the pipe and the

joint shall not bear upon the bottom of the trench. All adjustments to line and grade shall be made by scraping away or filling in with sand under the body of the pipe and not by wedging or blocking.

2. If the trench is excavated below the required grade, correct any part of the trench excavated below the grade, at no additional cost to the District per the Geotechnical Recommendations. Place the backfill material over the full width of trench in compacted layers not exceeding 6 inches deep to the established grade with allowance for the pipe base. If shoring is required, the trenches shall be shored and braced in accordance with the Trench Construction Safety Orders of the Division of Industrial Safety.
3. When subgrade is encountered that in the opinion of the District's Representative is unsuitable for pipe support, the District's Representative may order the excavation to be carried to an approved depth below the bottom of the pipe and backfilled with sand, to the lines and grades shown on the drawings and specified by the District's Representative.
4. The minimum width of the trench at the top of the pipe zone shall be as necessary to install the pipe. The utility lines shall be centered in the trench. In the event of (1) actual physical interference between existing crossing subsurface utilities and the proposed utility lines and (2) vertical discrepancy in connecting proposed utility lines to existing utility system, a minimum clearance of 0.5 feet between the utility line and the crossing, interfering utility shall be provided, unless otherwise indicated on the plans.
5. Where existing utilities or tree roots are to be protected, trench excavation shall be by hand. No mechanical excavating equipment shall be used within 6 inches of any utility or root.
6. Trenching machinery may be used for excavations provided the specified trench width can be maintained.

3.03 TRENCH BACKFILL

- A. Pipe bedding and trench backfill materials: Sand bedding and backfill for utilities shall consist of material having a sand equivalent of at least 30. The backfill material shall be placed within the pipe zone that extends from the bottom of the pipe to at least 12 inches above the top of the pipe for the full width of the trench. The horizontal distance between the spring line of the pipe and the side walls of the trench shall be such that bedding material can be properly placed and compacted below the haunches of the pipe. Pipe bedding and pipe zone backfill shall be compacted to at least 95 percent relative compaction. Backfill material placement shall conform to provisions of Geotechnical Recommendations.
- B. Trench backfill placed above the pipe zone shall consist of suitable onsite or imported soil per Geotechnical Recommendations. Mechanical compaction of trench backfill shall be performed and water consolidation (jetting) methods of compaction shall not be permitted.

- C. Trench Backfilling shall conform to the requirements of Sections 306-12 of the SSPWC and Geotechnical Recommendations.
- D. During the process of laying pipe in trenches, sufficient material shall be carefully placed and hand tamped about the pipe to hold it firmly to established line and grade. Oversized material, broken rock or shale, if encountered, shall not be used for backfill.
- E. No motor driven mechanical compacting equipment shall be used over pipelines until the backfill has been compacted to 12 inches over the crown of the pipe.
- F. All backfill material shall be deposited in horizontal layers not exceeding the thickness specified in Section 306-12 of the SSPWC and not exceeding 8 inches in thickness. The distribution of materials shall be such that all material following compaction and consolidation will form a homogeneous mass free of voids, pockets, streaks or other imperfections. Backfilling shall be done with earth free from lumps, hardpan, chunks, paving material, organic matter or other deleterious substances.
- G. Jetting of bedding or backfill material to obtain specific moisture content or for compaction shall not be permitted. If encountered, existing fill in the utility excavation shall be excavated and recompactd or removed and replaced with new fill materials per requirements of Section 2.02.
- H. Compaction of all backfill material for trenches, pavements or structures, shall be per provisions of the Geotechnical Recommendations. Appropriate warning detector tape shall be placed over all utilities.
- I. Prior to final cleanup or resurfacing, the District's Representative shall take compaction tests in any backfill area and at any depth, with the Contractor providing equipment and operator to assist in such test. If any such compaction test fails, the Contractor shall correct such failure and pay for any retesting that is required. The District's Representative shall make as many tests as he feels is required to receive a satisfactory and acceptable job.

3.04 STOCKPILING

- A. Stockpiling of imported materials or excavated materials shall direct surface water away from approved stockpile site to prevent erosion.
- B. After stockpiles are removed, leave area in a clean and neat condition.

3.05 FIELD QUALITY CONTROL

Inspection and testing shall be performed by District's Representative.

END OF SECTION 31 23 33

SECTION 32 11 23
AGGREGATE BASE COURSES

PART 1 GENERAL

1.01 SUMMARY

Aggregate base course for pavements, gutters, and all-weather access road.

1.02 RELATED SECTIONS

- A. Section 31 20 00 Earthwork.
- B. Section 32 12 16 Asphalt Concrete Paving.
- C. Section 32 13 13 Concrete Work.

1.03 REFERENCES

- A. Standard Specifications for Public Works (SSPWC), latest edition.
- B. ASTM Standards.
- C. Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California, dated April 14, 2023 (rev. January 30, 2026), Project No. 1025.003.03, prepared by Geotechniques, and shall be superseded by the most current version.
- D. Caltrans Standard Specifications 2023, and shall be superseded by the most current version.

1.04 SUBMITTALS:

- A. Submit material samples and reports in accordance with requirements of the District.
- B. Submit samples in sufficient quantities for material testing.

PART 2 PRODUCTS

2.01 MATERIALS

Aggregate Base Material shall be Class 2 Aggregate Base conforming to Caltrans Standard Specifications Section 26-1.02 or Section 200-2.4 of the "Greenbook" (International Conference of Building Officials [ICBO], latest edition) for Crushed Miscellaneous Base (CMB).

PART 3 EXECUTION

3.01 EXAMINATION

Verify substrate has been inspected; gradients and elevations are correct, and dry.

3.02 AGGREGATE BASE PLACEMENT

- A. Aggregate base placement shall conform to the provisions of the SSPWC, Section 301-2.
- B. Level and contour surfaces to elevations and gradients indicated.
- C. Add water to assist compaction. If excess water is apparent, remove aggregate and aerate to reduce moisture content.
- D. Where the required aggregate base thickness is 6 inches or less, the watered base may be spread and compacted in one layer. Where the required thickness is more than 6 inches, the aggregate base material shall be spread and compacted in 2 or more layers of approximately equal thickness. The maximum compacted thickness of any one layer shall not exceed 6 inches. Aggregate base shall be compacted to a minimum of 95 percent of the maximum dry density determined by ASTM D1557, latest edition.
- E. Aggregate base course shall be dense and unyielding upon proof-rolling with full water truck.
- F. Per the geotechnical report, geotextile (Mirafi 600x) shall be placed in accordance with manufacturer's instructions immediately below the aggregate base course in areas to receive bus and truck traffic.

3.03 TOLERANCES

- A. Flatness: Maximum variation of 1/4 inch.
- B. Scheduled Compacted Thickness shall conform to the provisions of the SSPWC Section 301-2.2.

3.04 FIELD QUALITY CONTROL

- A. Inspection and testing shall be performed by the District's Testing Laboratory. Compaction testing will be performed in accordance with ASTM D1557, latest edition.
- B. If tests indicate work does not meet specified requirements, remove work, replace and retest at Contractor's expense.

END OF SECTION 32 11 23

SECTION 32 12 16
ASPHALT CONCRETE PAVING

PART 1 GENERAL

1.01 SUMMARY

Asphaltic concrete paving for parking lots and driveway pavements.

1.02 RELATED SECTIONS

- A. Section 31 20 00 Earthwork.
- B. Section 32 11 23 Aggregate Base Course.

1.03 REFERENCES

- A. Standard Specifications for Public Works Construction (SSPWC), latest edition.
- B. ASTM Standards.
- C. Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California, dated April 14, 2023 (rev. January 30, 2026), Project No. 1025.003.03, prepared by Geotechniques, and shall be superseded by the most current version.
- D. Caltrans Standard Specifications 2023, and shall be superseded by the most current version.

1.04 SUBMITTALS

Submit asphalt concrete mix design(s) for approval of the District Representative.

1.05 TESTING AND INSPECTION

- A. Testing and inspection of asphalt pavement mix(es) and testing of placed stabilizing base course and asphalt pavement will be performed by the District's Testing Laboratory. Testing and inspection will be performed so as to minimize disruption of work.
- B. Allow the District's Testing Laboratory access to the mixing plant for verification of weights or proportions, character of materials used and determination of temperatures used in the preparation of asphaltic concrete mix.

PART 2 PRODUCTS

2.01 GENERAL

Provide the aggregate base, and bituminous surface conforming to the requirements of the Standard Specifications for Public Works Construction (SSPWC).

2.02 PAVING MATERIALS

- A. Asphalt Concrete: Asphalt concrete material shall be C1-PG 64-10 per SSPWC Section 203-6. The grading and proportioning of aggregates shall be such that the combined mineral aggregate conforms to the specified requirements.
- B. Asphalt Emulsion: SSPWC Section 203-3, Grade SS-1h.
- C. Prime Coat: Grade SC-70 per SSPWC Section 203-2.
- D. Aggregates for base course shall conform to requirements of Specification Section 32 11 23, Aggregate Base Course.

2.03 ASPHALT PAVEMENT MIX

- A. Combine mineral constituents in proportions to produce a mixture conforming to requirements of the SSPWC Section 203-6.
- B. Percentage by weight of asphalt cement in mixture shall be in accordance with SSPWC Section 203-6.
- C. Maintain thorough and uniform mixture.
- D. Bring asphalt and mineral constituents to required temperatures before mixing. Ensure aggregates are sufficiently dry so as not to cause foaming in mixture.

PART 3 EXECUTION

3.01 GENERAL

Execute Work in accordance with SSPWC Section 302 and the Geotechnical Recommendations.

3.02 PREPARATION

- A. Ensure grading of subgrade to required elevation. Subgrade preparation shall be per SSPWC Section 301.
- B. Before final rolling, shape entire section, add additional sub-soil if necessary, and compact subgrade to provide grades, elevation and cross-section indicated. Points of finished subgrade surface shall be within 0.04 foot of elevations indicated on the Drawings.

3.03 BASE COURSE

Place aggregate base in accordance with requirements of SSPWC Section 301 and to the thickness shown on the Drawings. Grade and compact in 6-inch layers to at least 95 percent of compaction (ASTM D1557).

3.04 MAINTENANCE

Maintain the base course until the asphaltic pavement is in place. Maintenance shall include drainage, rolling, shaping and water as necessary to maintain the course in proper condition. Maintain sufficient moisture at the surface to prevent a dusty condition. Areas of completed base course that are damaged shall be conditioned, reshaped and re-compacted in accordance with the requirements of the Specifications without additional cost to the District.

3.05 TACK COAT

- A. Prior to the application of the asphalt concrete, a paint binder (tack coat) shall be applied to all surfaces of walkway, curbs, gutters, manholes and drainage structures which will be in contact with asphalt pavement per SSPWC Section 302-5.4.
- B. Coat surfaces of catch basins which are to remain free of asphalt with oil, or provide equivalent protection, to prevent asphalt adhesion.

3.06 PRIME COAT

Prior to the application of the asphalt concrete, a prime coat shall be applied at a rate of 0.20 to 0.40 gallons per square yard.

3.07 SEAL COAT

- A. Preparation and application of two coats of sealant shall be in accordance with SSPWC Section 302-8. Seal coat shall be applied after the new asphalt pavement has cured.
- B. Striping and pavement markings shall conform to Sections 214 and 314 of the SSPWC. An initial single coat of striping of the parking lot shall be applied 72 hours after pavement installation and prior to the seal coat. Additionally, the final two coats of striping shall be reapplied 48 hours after the application of the seal coat.

3.08 ASPHALT CONCRETE

- A. Requirements: The bituminous concrete shall consist of mineral aggregate, uniformly mixed with bituminous material in a central plant in accordance with SSPWC Section 203-6. The percentage of asphalt binder shall be in accordance with SSPWC Section 203-6. The mixing plant and construction equipment shall conform to the requirements of SSPWC Sections 203-6 and 302-5.
- B. Placing: Deliver bituminous mixtures to the work site temperatures specified in SSPWC Section 302-5.5. Spread and place in accordance with SSPC Section 302-5.5. Asphalt surface shall be fog-sealed.

- C. Compaction: Initial or breakdown rolling and the final rolling of the uppermost layer of the asphalt concrete shall be in accordance with SSPWC Section 302-5.6. Compaction by vehicular traffic shall not be permitted.

3.09 JOINING PAVEMENT

- A. Carefully make joints between old and new pavements or between successive days work in such manner as to insure a continuous bond between old and new sections of the course in accordance with SSPWC Section 302.
- B. Expose and clean edges of existing pavement. Cut edge to straight, vertical surfaces. Paint all joints with a uniform coat of tack coat before the fresh mixture is placed. Prepare joints in the new pavement in accordance with SSPWC Section 302-5.7.

3.10 JOINING NON-PAVED AREAS

Where paving will join landscape or other non-hardscape area a redwood header shall be installed.

3.11 TOLERANCES

- A. Flatness: Maximum variation of 1/8 inch when measured with a 10-foot straight edge. Asphalt substrate shall not vary from planned cross slope by more than +/- 0.2%. Finished asphalt shall be smooth and planar and shall not vary greater than 1/8", plus or minus, under a 10-foot straight edge in any direction. Contractor shall be responsible for providing a survey of new asphalt surfaces that are acceptable to District or District's representative, and to water flood the surface with a water truck in the presence of District or District's representative. If after 20 minutes, "birdbaths" are evident in a depth more than 1/8", the contractor and the District or District's representative will determine the best method of correction at no cost to District.
- B. Variation from True Elevation: Within 1/4 inch.

3.12 FIELD QUALITY CONTROL

- A. Inspection and testing shall be performed by the District's Testing Laboratory.
- B. Field inspection and testing will be performed by the District's Testing Laboratory. The Contractor shall cooperate with such testing and shall give the District's Representative advance notice of paving scheduling. Sufficient "Advance Notice" shall be determined by the District's Representative.
- C. If tests indicate materials do not meet specified requirement, replace material and retest at no additional cost to the District.
- D. Frequency of Test: As determined by the District's Testing Laboratory.

3.13 PROTECTION

After placement, protect pavement from mechanical injury.

END OF SECTION 32 12 16

**SECTION 32 16 00
CURBS, GUTTERS, SIDEWALKS**

PART 1 – GENERAL

1.01 SUMMARY

- A. Concrete for curbs, gutters, sidewalks.

1.02 RELATED SECTIONS

- A. Section 31 20 00 – Earthwork

1.03 REFERENCES

- A. Standard Specifications for Public Works Construction (SSPWC), latest edition.
- B. Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California, dated April 14, 2023 (rev. January 30, 2026), Project No. 1025.003.03, prepared by Geotechniques, and shall be superseded by the most current version.
- C. ASTM standards.

1.04 SUBMITTALS

- A. Submit the following:
 - 1. Product Data: Provide data on admixtures and curing compounds.
 - 2. Concrete mix design(s).
 - 3. Certificates from the batch plant.

1.05 QUALITY ASSURANCE

- A. Perform Work in accordance with the SSPWC, latest edition; and ASTM Standards, latest edition.
- B. Obtain cementitious materials from same source throughout.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. Do not place concrete when base surface temperature is less than 40 degrees F or surface is wet.

PART 2 – PRODUCTS

2.01 FORM MATERIALS

- A. Form Materials: Section 303-5 of the SSPWC.

2.02 CONCRETE MATERIALS

- A. Concrete Material for Curbs, Walk (Path of Travel), Pavement, and Cast-in-Place Catch Basin:
 - 1. Class 520-C-2500 for walkways, curbs, and gutters. Portland cement concrete per Standard Specifications for Public Works Construction Section 201-1.1.2.
 - 2. Class 560-C-3500 for on-grade concrete to receive vehicular traffic. Portland cement concrete per Standard Specifications for Public Works Construction Section 201-1.1.2.
 - 3. Concrete reinforcements shall be constructed per the Project Plans and Specifications. Refer to the geotechnical recommendations.

2.03 ACCESSORIES

- D. Curing Compound shall conform to SSPWC Section 201-4. Pigmented compound shall not demonstrate any residual coloring of the concrete after one week.

2.04 CONCRETE MIX

- A. Mix and deliver concrete in accordance with ASTM C94.
- B. Use accelerating admixtures in cold weather only when approved by the District's Representative. Use of admixtures will not relax cold weather placement requirements.
- C. Use calcium chloride only when approved by the District 's Representative.
- D. Use set retarding admixtures during hot weather only when approved by the District 's Representative.

2.05 CONCRETE REINFORCEMENT

- A. Concrete reinforcement shall conform to SSPWC Section 201-2.

2.06 SOURCE QUALITY CONTROL

- A. Provide certificates of compliance from the batch plant.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verify compacted subgrade is acceptable and ready to support imposed loads.
- B. Verify gradients and elevations of subgrade are correct.

3.02 PREPARATION

- A. Moisten subgrade to minimize absorption of water from fresh concrete. Compact subgrade material to a depth of 12" beneath aggregate base below concrete pavements to 95% relative compaction.
- B. Coat surfaces of catch basin frames with oil to prevent bond with concrete pavement.
- C. Notify District's Representative a minimum of 24 hours prior to commencement of concrete placement operations.

3.03 FORMING

- A. Place and secure forms to correct location, dimension, and profile.
- B. Assemble formwork to permit easy stripping and dismantling without damaging concrete.
- C. Place joint filler vertical in position, in straight lines. Secure to formwork during concrete placement.

3.04 PLACING CONCRETE

- A. Place concrete in accordance with SSPWC Section 303-5.
- B. Install ½" thick fiberboard expansion joint and snap cap. Seal with Sikaflex self-leveling sealant after removal of snap cap (typical).
- C. Construct weakened plane joints conforming to SSPWC Section 303-5.4.3, one inch deep, at intervals not exceeding 10 feet.
- D. The top edges of curbs shall have 0.5" radius.

3.05 FINISHING

- A. Concrete finishes to conform with SSPWC Section 303-5.

3.06 FIELD QUALITY CONTROL

- A. Inspection and testing shall be performed by the District's Testing Laboratory.
- B. District 's Testing Laboratory will perform slump and compressive strength tests.
- C. Contractor shall maintain records of placed concrete items. Record date, location of pour, quantity, air temperature, and test samples taken.

3.07 PROTECTION

- A. Immediately after placement, protect pavement from premature drying, excessive hot or cold temperatures, vandalism and mechanical injury.

- B. It is the Contractor's responsibility to replace all concrete work subject to vandalism and graffiti at no extra cost to the District.

END OF SECTION 32 16 00

SECTION 32 84 23 IRRIGATION SYSTEM

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes requirements for the installation of the Irrigation System.

1.02 RELATED SECTIONS

32 93 30 – Sod Lawn Planting
32 93 33 – Shrub Planting

1.03 REQUIREMENTS OF REGULATORY AGENCIES

Secure all permits and licenses necessary for the work. Give all notices and comply with all laws, ordinances, rules, and regulations concerning the installation of the sprinkler system as drawn and specified.

1.04 SITE CONDITIONS

- A. Prior to beginning any work, the Contractor and the District Inspector shall participate in a thorough irrigation system review of the project site. All remote control valves shall be turned on and observed in operation by both the Contractor and PVSD Representative. Any existing defects will be listed in detail identifying the specific valve station number and describing the exact broken or non-functioning irrigation component noted during the site review. At the conclusion of the irrigation review, the Contractor shall generate a summary of the items identified by both parties listing all remote control valves operated, identifying if the valve performed without any defects or specifically identifying any observed defects or non-functioning components, such as broken heads, clogged nozzles, non-operating valve solenoids, broken piping, or other noted defects. The completed summary of items noted shall be listed on a document called 'Existing Irrigation System Observations.' This document shall be signed by the Contractor and submitted to the PVSD Representative for a confirming signature. The mutually signed 'Existing Irrigation System Observations' document shall be sent to the attention of the Landscape Architect for inspection purposes at the conclusion of the construction work. If requested by the PVSD Representative, the Contractor shall provide a list of the existing defective irrigation components noted with a detailed written proposal to repair each item identified on the list. A copy of this proposal will be sent to the Landscape Architect. This additional work proposal must be reviewed and approved in writing by the PVSD and formally presented to the General Contractor before the Landscape Subcontractor can begin any additional repair work. The mutually signed 'Existing Irrigation System Observation' document shall be used as a guide to identify any collateral damage caused to the existing irrigation system as a result of new construction performed on site by the Contractors. Any damage caused to the existing irrigation system not specifically identified on the 'Existing Irrigation System Observation' document shall be repaired or replaced at the Contractor's expense. In the event that the

Contractor does not participate or perform the existing irrigation site review, any existing irrigation equipment or components damaged on the project site noted by the Landscape Architect during the final irrigation system review shall be repaired or replaced by the Contractor at their expense to the satisfaction of PVSD.

- B. Do not willfully install the sprinkler system as indicated on the drawing when it is obvious in the field that unknown obstructions or grade differences exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the District Inspector.
- C. Before excavating for sprinkler lines, locate all underground utility lines so that the proper precautions may be taken to avoid damage to such utilities. In the event of a conflict between underground lines, promptly notify the District who will arrange for the relocation of one or the other. Failure to follow this procedure places the responsibility upon the Contractor for making any and all repairs for damage of any kind at his own expense.
- D. Provide necessary safeguards and exercise caution against injury or defacement of any existing site improvements. Contractor shall be responsible for any damage resulting from his operations and shall repair or replace such damage at his own expenses. No trucks or vehicles of any kind shall be allowed to pass over sidewalks, curbs, etc., unless adequate protection is provided.
- E. Existing Trees
 - 1. Exercise all possible care and precautions to avoid injury to tree roots, trunks, and branches. All excavating within drip line of trees shall be done very carefully and by hand pick and shovel if it appears that large roots are within trenching zones.
 - 2. Alter alignment of pipe to avoid large tree roots, 2-inch and larger in diameter.
 - 3. Wrap exposed and bridging tree roots with several layers of burlap and keep moist. Close all trenches within drip lines, within 24 hours.
 - 4. All severed roots 1-inch and larger shall be hand pruned with sharp tools and painted with acceptable horticultural seal.

1.05 MATERIAL LIST

Submit to the District for acceptance, five (5) copies of all materials and equipment, including Manufacturer's names and catalog numbers, to be furnished and installed under this contract within 10 days after the award of the contract.

1.06 RECORD DRAWINGS

- A. Provide and record daily a complete record set of prints on bond which shall be corrected to show changes from the original drawings and specifications and the exact installed locations, sizes, and kinds of equipment. Prints for this purpose may be obtained from the District. Keep this set of drawings on the site and use only as a record set.

- B. Use these drawings as work progress sheets. Make neat and legible annotations thereon as the work proceeds, showing the work as actually installed. Keep these drawings available at all times for inspection and in a location designated by the District.
- C. Before the date of the final inspection, transfer all information from the record prints to a clean set of prints procured from the District. Make work neat, in ink and subject to review and acceptance of the District. District will scan final drawings into a permanent electronic record document.
- D. Dimension from two permanent points of reference such as building corners, sidewalks or road intersections, the location of:
 - 1. Connection to existing water lines.
 - 2. Connection to existing electrical power.
 - 3. Gate valves.
 - 4. Routing of sprinkler pressure lines and control wiring.
 - 5. Electric control valves.
 - 6. Quick coupling valves.
 - 7. Other related equipment as directed by District.

1.07 TESTS AND SITE OBSERVATIONS

- A. All tests shall be made in the presence of the District; at least forty-eight (48) hours' notice shall be given for tests.
- B. Record drawings must be current and shall be verified by the District at the time of all observations.
- C. Site observations for all items pertaining to the work of this Section shall be performed by the District.
- D. Specific site observations for valve assemblies, sprinkler coverage, control wires and splices and any other observations deemed necessary by the District shall be performed by the District.
- E. An open trench main line check for pipe quality and depths shall be performed by the District.
- F. Head Layout - using flag marker layout all drip emitter, tree flood bubblers, and spray heads in field prior to trenching. Review head layout with District and Landscape Architect and make adjustments in fields as directed prior to installing irrigation.
- G. Center load pipe with small amount of backfill to prevent arching and whipping under pressure. Leave joints exposed for observation during pressure test. No water shall be permitted in the pipe until the above has been accomplished and a period of at least 24 hours has elapsed for solvent weld setting and curing.

Main lines to be tested up to valve at 125 pounds pressure and there shall be no leaks. Furnish force pump and pressure gauge. Lateral lines of system to be tested at line pressure with risers capped. Tests to be for 2 hour period and verified by the District.

- H. Backfill quality and compaction of trenches shall be verified by the District. Do not backfill trenches until all tests have been completed and accepted.
- I. Perform a coverage test in the presence of the District to determine if the water coverage for planting areas is complete and adequate. Furnish materials and perform all work required to correct any inadequacies of coverage due to deviations from drawings, or where the system has been willfully installed as indicated on the drawings when it is obviously inadequate, without bringing this to the attention of the District.
- J. The coverage test shall be completed, and the irrigation system modified if necessary and accepted, prior to the start of the planting operations.
- K. The entire system shall be checked out thoroughly and completely by the Contractor, five (5) days prior to the final observation. All heads shall be properly aligned and adjusted for coverage and cleared of any foreign materials. All valves shall be properly adjusted. Sprinkler controller valve chart shall be checked for accuracy.
- L. At the end of the Maintenance Period, a final observation shall be made by the Contractor and District to check out the entire system.
- M. Final inspection prior to acceptance:
 - 1. Operate each system in its entirety for the District at time of final inspection. Rework any items deemed not acceptable to the District.
 - 2. Deliver to the District all accessories, charts, record drawings, and equipment as required before final inspection.

1.08 GUARANTEE

- A. The entire sprinkler system shall be guaranteed for a period of one (1) year from date of final acceptance.
- B. Should any portion of the irrigation system malfunction due to poor workmanship or defective materials, corrections shall be promptly made by the Contractor at his own expense.
- C. Any damage to paving, plating, or other developments due to the settlements of improperly compacted trench soil, shall also be promptly repaired at the Contractor's expense, to the satisfaction of the District.

PART 2 PRODUCTS

2.01 GENERAL

- A. Irrigation materials shall be as listed on the Irrigation Legend and in these specifications.
- B. The irrigation products specified on the drawings in these specifications are selected to match existing products in use. Substitutions are permitted only when product name is followed by or equal.
- C. Use only new materials of brands and types as noted on the drawings and as specified.

2.02 MATERIALS

- A. PVC primer and solvents - as recommended by Manufacturer. John-Manville, Lasco, or Pacific Western.
- B. Main Line Fittings - Schedule 40, PVC Type 1, Grade 1, Cell Classification 12454-B, side gated, Lasco Spears, or approved equal.
- C. Lateral non-pressure line fittings - Schedule 40, PVC Type 1, Grade 1, Cell Classification 12454-B, side gated, Lasco or approved equal.
- D. Nipples and Risers - PVC Schedule 80.
- E. Pipe, Main Line shall be PVC Schedule 40 for size 1 ½" or less, solvent weld pipe in conformance with ASTM D-1785, D-1784. Mainline 2" and larger shall be Class 315 PVC.
- F. Pipe, Lateral Non-Pressure Lines shall be PVC Schedule 40, solvent weld in conformance with ASTM D-1785, D-1784.
- G. Thread Sealant shall be smooth, non-hardening sealant, compatible with the pipe materials specified. Do not use Teflon tape.

PART 3 EXECUTION

3.01 WORKMANSHIP AND INSTALLATION.

- A. Layout and Adjustments
 - 1. The drawings are diagrammatic to the extent that many offsets, special fittings, and exact locations of the equipment are not shown. The locations of all valves, heads, lines, etc., shall be installed, however, as accurately as possible to the locations that are indicated on the drawings.
 - 2. The locations of main lines are indicated as bordering walks, curbs and fences shall be placed as close as possible. Locate lines within planting areas wherever possible.

3. All indicated locations of heads and equipment are placed with careful consideration to overlap, protection of the premises, lights, proposed tree locations and general layout. Coordinate installation of sprinkler irrigation materials, including pipe, so there is no interference with utilities, other construction, or difficulty in planting trees and shrubs. Layout sprinkler heads and make any minor adjustments required due to differences between site and drawings. Adjustments shall be accomplished, maintaining proper sprinkler head coverage and overlap of sprinkler throws.
- B. Connections
1. All connections shall be made into existing lines as indicated on the drawings.
 2. Field verify existing line types in the field.
- C. Cutting and Patching
1. When piping crosses concrete paving and asphalt paving, sawcutting is required. Cut AC paving and/or concrete with concrete sawcutting tools straight and in those locations approved by the District.
 2. Remove concrete and/or AC, base, and soil to the required depth for mainlines.
 3. Concrete walks shall be backfilled entirely with compacted sand. Compact to 95% and patched with new concrete.
 4. AC paving shall be backfilled entirely with a 1-sac sand slurry mix. Compact to 95% and patch with new AC paving.
 5. Concrete paving shall be received medium broom finish.
 6. Remove from site any excavated soil.
- D. Trenching and Backfilling
1. Trench and excavate as necessary to install the system. Excavated material shall be neatly arranged so as to cause a minimum of inconvenience to pedestrian and vehicular traffic. No soil shall be placed on concrete paving without an adequate moisture proof membrane to protect paving.
 2. Trenches for all pipe shall be open vertical construction with firm level bottom and sufficiently wide to provide free working space around the work installed and to provide ample space for backfilling and tamping.
 3. Depth of trenches shall be sufficient to provide a minimum cover above the top of the pipe as follows:
 - a) Mains and control wires: 24-inches minimum cover.
 - b) PVC laterals: 12-inches minimum cover.
 4. When two (2) pipes are to be placed in the same trench, provide a minimum of 6-inch horizontal clearance. Place pipe side by side; do not install one pipe on top of another.
 5. After the installation is complete and the required tests and inspections have been made and approved, the excavations and trenches shall be backfilled with clean soil, free of rubbish, rocks, and pebbles larger than one-half inch.

- E. Plastic Pipe
 - 1. Do not install multiple assemblies on plastic lines. Provide each assembly with its own outlet.
 - 2. Install assemblies specified herein in accordance with respective detail. In absence of detail drawings or specifications pertaining to specific items required to complete work, perform such work in accordance with best standard practice.
 - 3. Clean PVC pipe and fittings before installation. For solvent weld pipe use installation and solvent welding methods as recommended by the pipe and fitting manufacturer. For gasketed pipe installation follow detailed assembly instructions furnished by the manufacturer.
 - 4. On PVC to metal connections, work the metal connections first. Use non-hardening sealant on all threaded joints. Screw hand tight and ½ turn by wrench. Where threaded PVC connections are required, use threaded PVC adapters into which the pipe may be welded.
 - 5. Pipe shall have a firm, uniform bearing, for the entire length of each pipe line, to prevent uneven settlement. Pipe shall be snaked from side to side of trench bottom to allow for expansion and contraction. One additional foot per 100 foot of pipe is the minimum allowance for snaking. Never lay PVC pipe when there is water in the trench or when the temperature is 32° F or below.
 - 6. Use 45° fittings at all changes in depth of pipe. Coupling to be of same materials and wall thickness as pipe.
- F. Sprinkler Controller – the irrigation controller is existing.
- G. Sprinkler Heads
 - 1. Prior to installing heads, flush laterals, and risers with full line pressure. Repeat whenever system is opened up for repairs or replacements. Start flushing operation at the highest point of delivery and work to the lowest.
 - 2. Align all part circle heads so that no spray shall hit building walls or concrete paving.
 - 3. Adjust all spray nozzles so that there will be no amount of overspray, and so that the entire set will be as evenly balanced as possible.
 - 4. Install with each lawn area sprinkler head, a "Triple Swing" joint with Schedule 80 PVC nipples and threaded ells.
 - 5. Install all tree bubblers and drip emitters on PVC flexible hose with two (2) solvent weld male adapters.

3.02 FIELD QUALITY CONTROL

- A. Adjustment to System
 - 1. Flush and adjust all sprinkler heads for optimum performance and to prevent overspray onto walk, roadways, and buildings wherever possible.
 - 2. Select the best degree of arc to fit existing site conditions.
 - 3. Set all sprinkler heads perpendicular to finished grades unless other designated on the drawings.

3.03 TESTING AND INSPECTION

- A. Do not allow or cause any work of this section to be covered up or enclosed until it has been inspected, tested, and approved by the District. Before backfilling the main line, and with all control valves in place, but before lateral pipes are connected, completely flush and test the mainline, and repair all leaks. Flush out each section of lateral pipe before emitters are attached.
- B. Make all necessary provisions for thoroughly bleeding the line of air and debris. Before testing, fill the line with water for a period of at least 24 hours.

3.04 FINAL INSPECTION

Thoroughly clean, adjust and balance all systems. Demonstrate the entire system to the District proving that all remote control valves are properly balanced, that all emitters are properly flowing, and that the entire system is installed and is workable, clean, and efficient.

END OF SECTION 32 84 23

**SECTION 32 93 30
SOD LAWN PLANTING**

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes requirements for the installation of the plant material.

1.02 SUBMITTALS

Furnish material invoices indicating the quantities of fertilizers, soil amendments, and all materials delivered to the job site. Material invoices must be approved by the Landscape Architect prior to incorporating soil amendments. Certificates shall be prepared by the supplier or distributor and shall indicate the quantities and qualities of materials used.

1.03 PROTECTION

- A. Contractor shall check or locate existing structures, electric cables or conduits, utility lines and other existing features or conditions above or below ground level that might be damaged as a result of the operation. Questions or conflicts arising out of such examination prior to or during operation shall be immediately directed to the attention of the District for necessary action or decisions before resuming operation. Contractor shall be responsible for repair or replacement at no cost to the District for features or conditions damaged through failure to comply with the above procedures.
- B. Protect existing trees and tree roots from any damage that may be caused as a result of any planting or irrigation operations.

1.04 ALTERNATES

Alternates will not be permitted, except where indicated, and as approved by the Landscape Architect.

1.05 LANDSCAPE ON-SITE OBSERVATIONS

- A. The Contractor shall notify the district and the Landscape Architect forty-eight (48) hours in advance for all required On-Site Observations. The final On-Site Observation shall require seven (7) days advance notice.
- B. The Contractor shall submit for approval a complete work schedule indicating tentative dates for On-Site Observations.
- C. Record drawings shall be current and present at the time of On-Site Observations and shall be updated on a weekly basis.

- D. Landscape On-Site Observations shall be required for the following phases of Work:
1. Job start meeting.
 2. Finish grading – when all fine grading work is complete, notify the Landscape Architect or District for approval prior to proceeding with the planting.
 3. Soil Preparation – furnish certificates for soil amendments at this time. Quantities must be reviewed by the Landscape Architect or District prior to incorporating into soil. When all soil preparation work is complete notify the Landscape Architect or District for approval prior to proceeding with the work.
 4. Irrigation System Review – see Irrigation Section.
 5. Review planting during the planting process.
 6. Review planting after installation for District approval.
 7. Maintenance – there is no maintenance period required for this project.

PART 2 PRODUCTS

2.01 MATERIALS – LANDSCAPE

- A. Soil Amendments: Organic soil amendment shall be Agromin "Agromend," or equal.
- B. Backfill Material shall be:
1. 1/3 organic soil amendment
 2. 2/3 existing site soil.
 3. Commercial Fertilizer (15-15-15), 1 lb./cu. yd.
 4. Iron, Zinc, Manganese, 1 oz. /cu. yd.
- C. Soil preparation materials for sod lawn planting areas shall per 1,000 square feet:
1. Three cubic yards of organic soil amendment
 2. Commercial Fertilizer (15-15-15), eight pounds
- D. Lawn shall be sod, Marathon II as grown by Southland Sod Farms.

PART 3 EXECUTION

3.01 SITE CONDITION

No plant materials shall be planted until all operations in conjunction with the installation of the irrigation system have been approved by the District and the Landscape Architect. Final grades shall be established, and the planting areas shall be properly prepared and graded.

3.02 LAWN AREAS – NEW SOD

- A. The existing lawn area shall be scrapped off and removed leaving only subgrade. This subgrade shall be graded for positive drainage to the existing drain grades. After the grading is approved by the District Inspector soil preparation materials shall be thoroughly and evenly incorporated into the top six inches of the soil then the entire area shall be fine graded to receive the new sod lawn.
- B. Stones or rocks over 1" in size, construction refuse, and other deleterious material shall be removed from the site, safely and legally disposed of.
- C. After soil prep and fine grading is complete roll lawn areas with a water ballast roller to create even surface. Soil should be moist to a depth of six inches.
- D. To lay sod, select a starting point parallel to the longest straight boundary of the area. Stagger the strips and avoid overlapping edges. Avoid cutting the sod in short narrow strips. Butt edges and ends of sod so that they fit tightly, with no overlapping. Avoid standing or kneeling on sod while it is being laid. After sod is installed, roll lightly to squeeze out air pockets.
- E. Follow all recommended sod planting procedures provided by sod grower, Southland Farms.

END OF SECTION 32 93 30

**SECTION 32 93 33
SHRUB PLANTING**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. This section includes general requirements for the installation of the shrub planting and the espalier plants.
- B. The District shall purchase and deliver to the site forty-eight (48) 5-gallon shrubs. The Contractor shall layout the shrubs in their location and when approved by the District, shall install the shrub planting.

1.02 RELATED SECTIONS

Section 32 84 23 – Irrigation Systems
Section 32 93 30 – Sod Lawn Planting

1.03 SUBMITTALS

Furnish material invoices indicating the quantities of fertilizers, soil amendments, mulch, and all materials required to complete the Work. Material invoices must be approved by the Landscape Architect prior to incorporating soil amendments. Certificates shall be prepared by the supplier or distributor and shall indicate the quantities and qualities of materials used.

1.04 PROTECTION

Contractor shall check or locate existing structures, electric cables or conduits, utility lines and other existing features or conditions above or below ground level that might be damaged as a result of the operation. Questions or conflicts arising out of such examination prior to or during operation shall be immediately directed to the attention of the District for necessary action or decisions before resuming operation. Contractor shall be responsible for repair or replacement at no cost to the District for features or conditions damaged through failure to comply with the above procedures.

1.05 ALTERNATES

Alternates will not be permitted, except where indicated, and as approved by the Landscape Architect.

PART 2 PRODUCTS

2.01 MATERIALS – LANDSCAPE

- A. 5-gallon shrubs shall be purchased and delivered to site by PVSD for Contractor to position and plant.
- B. Soil amendments: organic soil amendment shall be Agromin "Agromend," or equal.
- C. Backfill material shall be:
 - 1. $\frac{1}{3}$ organic soil amendment
 - 2. $\frac{2}{3}$ existing site soil.
 - 3. Commercial Fertilizer (15-15-15), 1 lb./cu. yd.
 - 4. Iron, Zinc, Manganese, 1 oz. /cu. yd.
- D. Soil preparation materials per 1,000 square feet:
 - 1. Three cubic yards of organic soil amendment
 - 2. Commercial Fertilizer (15-15-15), eight pounds
- E. Mulch shall be Agromin ES-2 mulch or equal.
- F. Pre-Emergent herbicide – product 'Dimension'.

PART 3 EXECUTION

3.01 SITE CONDITION

No plant materials shall be planted until all operations in conjunction with the installation of the irrigation system have been approved by the District and the Landscape Architect. Final grades shall be established, and the planting areas shall be properly prepared and graded.

3.02 GROUND PREPARATION – ALL AREAS

- A. After the site clearance and preparation has been approved by the District, planted areas shall be thoroughly cultivated to a depth of six inches to reduce any compaction caused by the Work. Protect existing tree roots.
- B. Stones or rocks over 1" in size, construction refuse, and other deleterious material shall be removed from the site, safely and legally.
- C. Apply soil preparation materials to all planting areas and thoroughly incorporate into the top six inches of soil.
- D. Wet soil thoroughly and allow to settle. Repeat this compaction procedure until soil is stable enough to permit aeration and drainage for plant material.

- E. Finish grade all planting areas to a smooth, uniform surface ready for planting. Finish grade shall be one inch below finish grade of adjacent paved surfaces unless otherwise noted on Drawings.

3.03 PLANTING – SHRUBS

- A. Shrub planting shall comply with details on drawings.
- B. Make necessary adjustments and excavate pits of square outline and vertical sides for all plants. Scarify sides and bottoms of all plant pits. Set trees vertical.
- C. At all times, protect roots and root ball of plants from drying.
- D. If directed by the Landscape Architect, the Contractor shall prune plants in accordance with standard horticultural practice.

3.04 PRE-EMERGENT HERBICIDE

Broadcast pre-emergent herbicide product 'Dimension' over surface of exposed soil in shrub planters at rate per Manufacturer's specifications. Herbicide shall be applied prior to wood mulch installation.

3.05 MULCH

Install three-inch layer of mulch throughout shrub areas without groundcover. Finish grade shrub areas to a smooth uniform surface to receive mulch. Keep mulch away from tree and shrub crown. Dress mulch areas to present a clean uniform appearance when complete.

END OF SECTION 32 93 33

**SECTION 32 94 60
LANDSCAPE MAINTENANCE**

PART 1 GENERAL

1.01 MAINTENANCE PERIOD

There is no extended landscape maintenance period with this project. Once the PVSD Inspectors have accepted the irrigation and planting work as complete, the Contractor shall be released from the landscape scope of work.

END OF SECTION 32 94 60