

IN GENERAL THE SCOPE OF WORK INCLUDES THE REMOVAL OF EXISTING TURF IN DESIGNATED AREA AND REPLACED WITH HYDRO-SEED TURF WITH NEW IRRIGATION PER PLAN. THE INSTALLATION OF A DOUBLE WIDE CHAIN LINK FENCE ACCESS GATES AS WELL AS AN CHAIN LINK ENCLOSURE ON A SMALL CONCRETE SLAB FOR NEW AUTO CONTROLLERS ARE ALSO PART OF THIS SCOPE.

PART 1 - 2022 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE.
TITLE 24 C.C.R.

PART 2 - 2022 CALIFORNIA BUILDING CODE - TITLE 24 C.C.R.

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.

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

DETAIL CALL-OUT

4
L2.1

DETAIL NUMBER
SHEET NUMBER

1

KEY NOTES W/
DESCRIPTION OF WORK
AND DETAIL REFERENCE

Ventura Unified
SCHOOL DISTRICT

126 FWY (SOUTH BOUND)

126 FWY (NORTH BOUND)

S. VICTORIA AVE.

GLENWOOD AVE

BURL AVE.

S. BROOKSHIRE AVE

WOODLAND ST.

TELEGRAPH RD.

PROJECT AREA

SCHOOL SITE

BLDG.

SOUTH HILL RD.

NORTH

SHEET NO.	SHEET REFERENCE	SHEET TITLE
1	L1.1	COVER SHEET
2	L2.1	EXISTING CONDITIONS & FENCING PLAN
3	L2.2	EXISTING CONDITIONS & FENCING PLAN
4	L3.1	IRRIGATION PLAN
5	L3.2	IRRIGATION PLAN
6	L3.3	IRRIGATION LEGEND
7	L3.4	IRRIGATION PROJECT NOTES
8	L4.1	PLANTING PLAN
9	L4.2	PLANTING PLAN
10	L5.1	LANDSCAPE DETAILS
11	L5.2	LANDSCAPE DETAILS
12	L5.3	CONSTRUCTION DETAILS

[illegible]

SHEET TITLE
COVER SHEET

PROJECT
BALBOA MIDDLE SCHOOL
OPEN PLAY AREA
TURF RENOVATION
247 S HILL RD, VENTURA, CA 93003

SHEET TITLE
COVER SHEET

DRAWN: TC & JB
CHECKED: JB

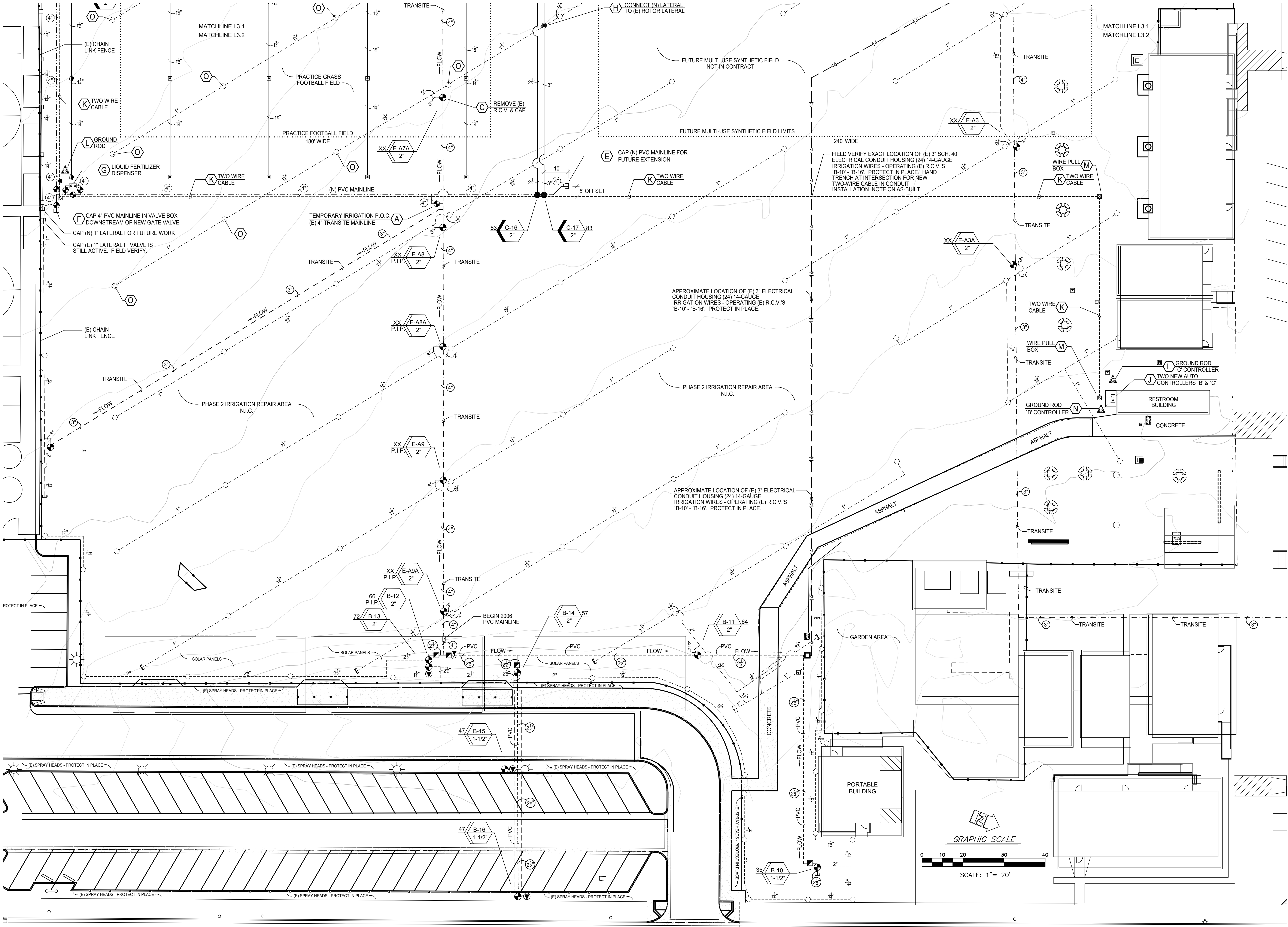
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DRAWING

L1.1

SHEET 1 OF 12
PROJECT No. 25.16

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JORDAN & BAIN
LANDSCAPE ARCHITECTS, INC.

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

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REVISIONS		
NO.	DATE	DESCRIPTION



CLIENT
VENTURA UNIFIED
SCHOOL DISTRICT
255 WEST STANLEY AVENUE
VENTURA, CA. 93001

SHEET TITLE
IRRIGATION PLAN

DRAWN: TC & JB
CHECKED: JB

DRAWING

L3.2

SHEET 5 OF 12
PROJECT No. 25.16

PROJECT
BALBOA MIDDLE SCHOOL
OPEN PLAY AREA
TURF RENOVATION
247 S HILL RD, VENTURA, CA 93003

PRINTED FOR BID 12-01-25

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	DESCRIPTION
(A)	TEMPORARY IRRIGATION POINT OF CONNECTION 'A'- CONNECTION TO (E) 4" ASBESTOS-CEMENT MAINLINE: (E) 4" ASBESTOS-CEMENT IRRIGATION MAINLINE APPROXIMATELY 24" BELOW GRADE. EXCAVATE AND EXPOSE 4" ASBESTOS-CEMENT MAINLINE SUITABLE TO INSTALL A 4"x4" ROMAC INDUSTRIES STAINLESS STEEL TAPPING SLEEVE WITH SIDE LIFTER BAR, STYLE SST, WITH A DUCTILE IRON FLANGED 4" OUTLET, OR APPROVED EQUAL, CUT OR TAP (E) 4" ASBESTOS-CEMENT MAINLINE WITH APPROVED WET CUTTING TOOLS TO SATISFY ALL OSHA REGULATIONS PERTAINING TO CUTTING ASBESTOS-CEMENT PIPING. INSTALL A 4" SPEARS VANSTONE FLANGE WITH STAINLESS STEEL BOLTS AND SUITABLE GASKETS TO ATTACH TO THE 4" DUCTILE IRON FLANGE OUTLET. INSTALL A NEW 4" FLANGED GATE VALVE TO USE AS A ISOLATION VALVE. INSTALL NEW 4" CLASS 315 PVC IRRIGATION MAINLINE AS PER PLAN AT A DEPTH OF 24" BELOW GRADE TO SUPPLY WATER TO THE NEW IRRIGATION VALVES. BACKFILL AND COMPACT EXPOSED MAINLINES AS PER PLANS AND SPECIFICATIONS.
(B)	IRRIGATION POINT OF CONNECTION 'B': (E) 4" ASBESTOS-CEMENT IRRIGATION MAINLINE APPROXIMATELY 24" BELOW GRADE. EXCAVATE AND EXPOSE 4" ASBESTOS-CEMENT MAINLINE SUITABLE TO WET CUT (E) 4" ASBESTOS-CEMENT MAINLINE IN TWO LOCATIONS. WET CUT (E) 4" ASBESTOS-CEMENT MAINLINE PIPE WITH APPROVED WET CUTTING TOOLS TO SATISFY ALL OSHA REGULATIONS PERTAINING TO CUTTING ASBESTOS-CEMENT PIPING. REMOVE A MINIMUM OF 3'-0" OF (E) 4" ASBESTOS-CEMENT MAINLINE. EXCAVATE A 24" DEEP TRENCH ADJACENT TO REMAINING 4" ASBESTOS-CEMENT MAINLINE THAT IS TO BE ABANDONED IN PLACE AND BURY REMOVED SEGMENT OF ASBESTOS-CEMENT PIPING 24" BELOW GRADE. INSTALL A 4" ROMAC INDUSTRIES DUCTILE IRON END CAP COUPLING SUITABLE FOR ASBESTOS-CEMENT PIPING, EC501 SERIES, OR APPROVED EQUAL, AT THE SEVERED END OF THE 4" MAINLINE TO PERMANENTLY SEAL OFF WATER SUPPLY. INSTALL CONCRETE THRUST BLOCK TO ENSURE CAPPED FITTING WILL NOT DETACH FROM MAINLINE.
(C)	REMOVE (E) REMOTE CONTROL VALVE FROM ACTIVE IRRIGATION MAINLINE & CAP OFF: FIELD VERIFY THE EXACT LOCATION OF THE (E) REMOTE CONTROL VALVE AND VALVE BOX. THE (E) VALVE MAY BE OPERATED BY A HUNTER NODE BATTERY TIMER OR BY THE (E) REMOTE CONTROL VALVE. IN THE EVENT THAT THE VALVE IS BEING OPERATED BY A HUNTER NODE, REMOVE THE HUNTER NODE FROM THE (E) REMOTE CONTROL VALVE AND RETURN IT TO THE VENTURA UNIFIED SCHOOL DISTRICT REPRESENTATIVE. EXCAVATE AND EXPOSE THE (E) REMOTE CONTROL VALVE. REMOVE (E) VALVE BOX AND REMOTE CONTROL VALVE FROM MAINLINE. CAP OFF LINE SIZE SUPPLY PIPE PREVIOUSLY SUPPLYING WATER TO REMOTE CONTROL VALVE WITH A SOLVENT WELD SCH. 80 PVC END CAP TO PERMANENTLY TERMINATE WATER SUPPLY OUTLET. PROVIDE CONCRETE THRUST BLOCK TO ENSURE THAT SCH. 80 PVC CAP WILL NOT BE DISPLACED FROM PIPING. BACKFILL SOIL OVER CAPPED PIPING AND COMPACT AS PER PLANS AND SPECIFICATIONS TO PREVENT ANY SOIL SETTLING.
(D)	REMOVE (E) REMOTE CONTROL VALVE FROM ABANDONED ASBESTOS-CEMENT MAINLINE: FIELD VERIFY THE EXACT LOCATION OF THE (E) REMOTE CONTROL VALVE AND VALVE BOX. THE (E) VALVE MAY BE OPERATED BY A HUNTER NODE BATTERY TIMER OR BY THE (E) REMOTE CONTROL VALVE. IN THE EVENT THAT THE VALVE IS BEING OPERATED BY A HUNTER NODE, REMOVE THE HUNTER NODE FROM THE (E) REMOTE CONTROL VALVE AND RETURN IT TO THE VENTURA UNIFIED SCHOOL DISTRICT REPRESENTATIVE. EXCAVATE AND EXPOSE THE (E) REMOTE CONTROL VALVE. REMOVE (E) VALVE BOX AND REMOTE CONTROL VALVE FROM MAINLINE. THIS SECTION OF (E) ASBESTOS-CEMENT MAINLINE WILL NOW BE ABANDONED IN PLACE SO THERE IS NO NEED TO CAP OFF PIPING. BACKFILL EXCAVATED SOIL PIT AND COMPACT AS PER PLANS AND SPECIFICATIONS TO PREVENT ANY SOIL SETTLING.
(E)	INSTALL NEW 4" CLASS 315 PVC MAINLINE 24" BELOW GRADE WITH A 5'-0" OFFSET FROM TWO-WIRE CONDUIT LOCATION AND CAP END FOR FUTURE MAINLINE EXTENSION: TRENCH AND INSTALL NEW 4" CLASS 315 PVC IRRIGATION MAINLINE AS PER IRRIGATION PLAN TO SUPPLY IRRIGATION WATER TO IRRIGATION REMOTE CONTROL VALVES. C-18" 4" C-17" TRENCH MAINLINE IN THE NORTH THAT THE VALVE IS BEING OPERATED BY. INSTALL (2) SCH. 80 PVC 4" DEGREE SOLVENT WELD ELBOW FITTINGS WITH PIPE SEGMENTS TO OFFSET MAINLINE A DISTANCE OF 5'-0" CLEARLY FROM NEW 1-1/4" SCH. 40 PVC TWO-WIRE CABLE CONDUIT. EXTEND THE MAINLINE APPROXIMATELY 10'-0" FROM THE ADJACENT REMOTE CONTROL VALVE BOX. INSTALL A CONCRETE THRUST BLOCK TO SECURE 4" SOLVENT WELD CAP ONTO 4" PVC MAINLINE.
(F)	CAP 4" CLASS 315 PVC MAINLINE 5'-0" DOWNSTREAM OF NEW 4" GATE VALVE FOR FUTURE WORK: TRENCH AND INSTALL A 5'-0" LONG SEGMENT OF NEW 4" CLASS 315 PVC MAINLINE. INSTALL A 4" SOLVENT WELD CAP OVER END OF 5'-0" LONG MAINLINE SEGMENT. CLOSE GATE VALVE TO PREVENT ANY WATER FLOW THROUGH NEW PIPE SEGMENT. THIS PIPE SEGMENT WILL BE USED FOR FUTURE IRRIGATION WORK.
(G)	EZ-FLO AUTOMATIC FERTILIZER DISPENSER: INSTALL EZ-FLO FERTILIZER DISPENSER WITH 25 GALLON TANK, MODEL EZ025-HC, ONTO PVC IRRIGATION MAINLINE AS PER MANUFACTURER'S SPECIFICATIONS AND DETAILS. THE PVC TANK SHALL BE INSTALLED BELOW GRADE AND COVERED WITH A OLDCASTE HDPE PLASTIC JUMBO VALVE BOX MODEL 2436. VALVE BOX SHALL HAVE THE FOLLOWING MINIMUM DIMENSIONS OF (26-1/4" X 37-3/4" X 24"D). VALVE BOX SHALL BE FURNISHED WITH A GREEN "T-COVER" LID WITH 3/8" STAINLESS HEX BOLT. INSTALL (3) 4" FLANGED GATE VALVES ON MAINLINE IN SEPARATE VALVE BOXES WITH MAINLINE SEGMENTS ARRANGED TO CREATE A SUB-MAINLINE OR BY-PASS TO ISOLATE LIQUID FERTILIZER DISPENSER FROM PRIMARY MAINLINE DISCHARGE WHEN TANK IS NOT IN USE. INSTALL A EASY-FLO MODEL 'CBV-400' 4" SCH. 40 PVC COUPLING BALL VALVE CONNECTOR TO ACCESS TANK HOSES TO NEW IRRIGATION MAINLINE. INSTALL COUPLING BALL VALVE CONNECTOR AS PER MANUFACTURER'S SPECIFICATIONS. THE EXACT LOCATION OF THE LIQUID FERTILIZER TANK SHALL BE SPOTTED IN THE FIELD BY THE VENTURA SCHOOL DISTRICTS REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR FILLING TANK WITH "CRITTER-MAX" LIQUID RODENT CONTROL AS PART OF THIS INSTALLATION PRIOR TO BEGINNING THE IRRIGATION SYSTEM TO GERMINATE HYDRO-SEED TURF.
(H)	INSTALL NEW REMOTE CONTROL VALVE - TRENCH NEW SCH. 40 PVC LATERALS AND CONNECT TO ORPHANED TURF ROTORS TO RESUPPLY WATER OUTSIDE OF NEW TURF AREA: THERE WILL BE SEVERAL (E) TURF ROTORS THAT WILL BE CUT OFF FROM THEIR HISTORICAL WATER SUPPLY AS A RESULT OF THE IRRIGATION WORK. THESE ROTORS ARE LOCATED IN THE ADJACENT OPEN FIELD AREA THAT IS TO REMAIN ACTIVE UNTIL THE SYNTHETIC FIELD IS CONSTRUCTED. INSTALL NEW REMOTE CONTROL VALVES AS PER IRRIGATION PLAN. TRENCH AND INSTALL NEW SCH. 40 PVC LATERALS AND INTERSECT INTO THE REMAINING (E) TURF ROTOR LATERALS THAT HAVE BEEN SEVERED FROM THEIR WATER SUPPLY. FIELD VERIFY THE EXACT (E) LATERAL PIPE SIZE DURING THIS WORK. INSTALL (E) LINE SIZE LATERAL SCH. 40 PVC SOLVENT WELD FITTING ONTO NEW SCH. 40 PVC LATERAL SUPPLY PIPE ORIGINATING FROM NEW REMOTE CONTROL VALVE AND CONNECT ONTO (E) LATERAL PIPE TO RESUPPLY THE REMAINING (E) TURF ROTORS.
(I)	REMOVE THE (E) BOOSTER PUMP FROM THE (E) CONCRETE PAD AND REPLACE IT WITH A NEW IRRIGATION BOOSTER PUMP: THE EXISTING BOOSTER PUMP IS LOCATED ON A CONCRETE PAD SECURED BY A 6'-0" CHAIN LINK FENCE WITH (2) 5'-0" WIDE ACCESS GATES. DISCONNECT THE (E) POWER SUPPLY AND DUCTILE IRON FLANGES TO ALLOW THE (E) BOOSTER PUMP HOUSED IN A ALUMINUM TOP OPENING SECURITY ENCLOSURE TO BE REMOVED. REMOVE ALL ANCHOR BOLTS. CAREFULLY REMOVE THE (E) BOOSTER PUMP FROM THE CONCRETE SLAB AND DELIVER IT TO THE VUSD FACILITIES DEPARTMENT. INSTALL NEW IRRIGATION BOOSTER PUMP HOUSED IN A TOP OPENING ALUMINUM ENCLOSURE ONTO (E) CONCRETE SLAB. POSITION THE PUMP TO ALLOW FOR EASY CONNECTION TO THE (E) 4" DUCTILE IRON PIPING ORIGINATING FROM THE (E) 4" REDUCED PRESSURE BACKFLOW DEVICE. SECURE THE BOOSTER PUMP SECURITY ENCLOSURE TO THE (E) CONCRETE SLAB USING HILTI MODEL KB-T22-3/8" STAINLESS STEEL ANCHOR BOLTS. MINIMUM EMBEDMENT 2". A MINIMUM OF (4) ANCHOR BOLTS WILL BE INSTALLED TO SECURE ENCLOSURE TO THE (E) CONCRETE SLAB. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED DUCTILE IRON SPOOLS AND FITTINGS NEEDED TO RECONNECT THE WATER SUPPLY INTO THE NEW BOOSTER PUMP 3" FLANGED INLET AND REQUIRED FITTINGS AND DUCTILE IRON SPOOLS TO CONNECT 3" FLANGED PUMP OUTLET TO 4" DUCTILE IRON IRRIGATION PIPING. THE NEW BOOSTER PUMP HAS THE SAME ELECTRICAL POWER REQUIREMENTS AS THE PREVIOUSLY REMOVED PUMP. RECONNECT THE ELECTRICAL POWER SUPPLY TO THE BOOSTER PUMP AS PER BUILDING CODE. ENSURE THAT ALL WIRING IS ENCLOSED WITHIN EMT CONDUIT WITH ALL WIRE SPLICE CONNECTIONS HOUSED WITHIN APPROVED J-BOXES. INSTALL DUCTILE IRON SPOOLS AND FITTINGS AS NEEDED TO EXTEND 4" PIPING FROM DISCHARGE OF PUMP ACROSS CONCRETE SLAB AND CONNECTING TO IRRIGATION MAINLINE. IN ALL CASES, USE STAINLESS STEEL BOLTS AND 3/8" THICK GASKETS TO CONNECT ALL FLANGED CONNECTIONS.
(J)	INSTALL (2) NEW AUTO CONTROLLERS 'B' AND 'C' ON NEW CONCRETE SLAB WITH A 6'-0" TALL CHAIN LINK SECURITY FENCE ENCLOSURE: INSTALL A 6" THICK CONCRETE PAD WITH DIMENSIONS OF 6' X 6' X 6" THICK ADJACENT TO THE EXISTING CHAIN LINK FENCE SECURITY ENCLOSURE PROTECTING THE (E) AIR CONDITIONING EQUIPMENT. THE BACK SIDE OF THE ENCLOSURE SHALL BE SECURED BY THE (E) PORTABLE CLASSROOM BUILDING EXTERIOR WALL. CONSTRUCT A 6'-0" TALL CHAIN LINK FENCE ON THE TWO REMAINING OPEN SIDES OF THE CONCRETE SLAB. FABRICATE A 6'-0" WIDE CHAIN LINK FENCE GATE ON THE SIDE OF THE ENCLOSURE THAT FACES THE OPEN TURF FOR MAINTENANCE ACCESS TO THE NEW AUTO CONTROLLERS. INSTALL (1) 16 STATION AUTO CONTROLLER AUTO CONTROLLER 'B' AND (1) TWO-WIRE AUTO CONTROLLER 'C' THAT HAVE BEEN ASSEMBLED INTO A STAINLESS STEEL ENCLOSURE BY SITE ONE GREEN TECH. INSTALL 120 VOLT, 2 AMP ELECTRICAL POWER TO THE TWO AUTO CONTROLLERS USING THE (E) ELECTRICAL POWER SUPPLIES FOUND AT THE ADJACENT AIR CONDITIONING UNITS. ALL ELECTRICAL WIRING SHALL BE HOUSED IN EMT CONDUIT AND SECURED TO THE BUILDING WALL. EXTEND EMT CONDUIT TO THE AUTO CONTROLLER SECURITY ENCLOSURE ASSEMBLY AND CONNECT TO THE AUTO CONTROLLERS AS PER BUILDING CODE. INSTALL ALL REQUIRED SCH. 40 PVC SWEEP ELBOWS TO ACCESS THE LANDSCAPE AREAS FOR TWO WIRE CABLES, GROUND WIRES, 14-GAUGE, AND FLOW SENSING CABLES. FLOW SENSING CABLES WITHIN THE CONDUITS SHALL BE INSTALLED AS PART OF FUTURE WORK.
(K)	TWO WIRE CABLE INSTALLED IN 1-1/4" SCH. 40 CONTINUOUS CONDUIT - INSTALL IN SAME TRENCH WITH MAINLINE WHEN POSSIBLE: INSTALL TWO WIRE CABLE, RAIN MASTER MODEL TW-CAB-14, IN A CONTINUOUS 1-1/4" SCH. 40 PVC ELECTRICAL CONDUIT AT 24" BELOW GRADE. INSTALL 1-1/4" SCH. 40 PVC ELECTRICAL SWEEP ELBOWS INTO AND OUT OF ALL REMOTE CONTROL VALVE BOXES, WIRE PULL BOXES, WIRE SPLICE BOXES, AND ALL LIGHTNING GROUNDING CONNECTIONS. WIRE SHALL BE INSTALL CONTINUOUSLY ALONG MAINLINE RUN WITH ALL SPLICES OCCURRING IN EITHER REMOTE CONTROL VALVE BOXES, LIGHTNING GROUNDING EQUIPMENT VALVE BOXES, OR WIRE SPLICE BOXES ONLY. IN THE EVENT THE CABLE IS SEVERED DURING CONSTRUCTION, A RECTANGULAR VALVE BOX SHALL BE INSTALLED OVER THE WIRE SPLICE AND WIRES SPLICED TOGETHER WITH 3M WATER PROOF WIRE CONNECTORS, MODEL DBR-Y6 SERIES ONLY. THE VALVE BOX LID SHALL BE HEAT STAMPED "WIRE SPLICE BOX". ALL WIRE SPLICES AND CONNECTIONS SHALL BE PERFORMED AS PER RAIN MASTER SPECIFICATIONS.
(L)	INSTALL LIGHTNING GROUNDING EQUIPMENT ON TWO WIRE CABLE: INSTALL THE FOLLOWING TORO EQUIPMENT ATTACHED TO THE TWO WIRE CABLE RUN TO GROUND THE CABLE IN THE EVENT OF AN ELECTRICAL SURGE CREATED AS A RESULT OF A LIGHTNING STRIKE. THE CONTRACTOR SHALL INSTALL A STANDARD RECTANGULAR VALVE BOX TO HOUSE A TORO LIGHTNING ARRESTOR MODEL TW-LA-1 AS WELL AS A 8'-0" COPPER CLAD GROUNDING ROD IMBEDDED INTO THE SOIL WITH A COPPER CLAMP AND GROUNDING COPPER WIRE. THE TWO WIRE CABLE SHALL BE CUT AND SPLICED ONTO THE LIGHTNING ARRESTOR AND CONNECTED TO THE GROUNDING ROD AND CLAMP AS PER TORO SPECIFICATIONS. THE 8'-0" COPPER CLAD ROD SHALL BE OFFSET FROM THE TWO WIRE CABLE RUN INSTALLED AS PER TORO SPECIFICATIONS. PROVIDE ALL REQUIRED WIRES, WATER T

SYMBOL		DESCRIPTION	MANUFACTURER	MODEL / REMARKS	DETAIL NO.	SHEET NO.
		(E) 1961 IRRIGATION MAINLINE	UNKNOWN	VARIES - 3" & 4" SIZE PIPE ARE ASBESTOS-CEMENT PIPE (TRANSITE) / 2" & LESS ARE SCH. 40 GALV. STEEL - 18"- 24" BELOW GRADE	NA	NA
		(E) 2006 IRRIGATION MAINLINE	UNKNOWN	2-1/2" SIZE PIPE & LESS - SCH. 40 PVC / 3" & LARGER CLASS 315 PVC - 18"- 24" BELOW GRADE	NA	NA
		(E) BURIED PVC LATERALS	UNKNOWN	CLASS 200 PVC LATERAL - SOLVENT WELD - 12" BELOW GRADE	NA	NA
		SLEEVING (IF NEEDED)	PACIFIC PLASTICS	SCH. 40 PVC OR CLASS 200 PVC - 3 PIPE SIZES LARGER THAN THE PIPE TO BE SLEEVED - 24" BELOW GRADE. SEE SLEEVING SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION.	1	L5.1
		(E) PVC WIRE CONDUIT	UNKNOWN	3" SCH. 40 PVC ELECTRICAL CONDUIT - SOLVENT WELD - 24" BELOW GRADE - HOUSING (E) 14-GAUGE WIRES - PROTECT IN PLACE	NA	NA
		(N) TWO-WIRE CABLE	TORO	TW-CAB-14 - INSTALL IN CONTINUOUS 1-1/4" SCH. 40 PVC CONDUIT - 24" BELOW FINISH GRADE	1	L5.1
		(N) MAINLINE - 1-1/2" SIZE OR LESS	PACIFIC PLASTICS	SCH. 40 PVC - 1-1/2" SIZE OR LESS - SOLVENT WELD - 24" BELOW GRADE	1, 2	L5.1
		(N) MAINLINE - 2" SIZE & LARGER	PACIFIC PLASTICS	CLASS 315 PVC - 2" TO 4" - SOLVENT WELD - 24" BELOW GRADE	1, 2	L5.1
		(N) LATERAL - ALL SIZES	PACIFIC PLASTICS	SCH. 40 PVC - 1/2" & LARGER - SOLVENT WELD - 12" BELOW GRADE	1	L5.1
		(E) BACKFLOW DEVICE	WILKINS	375 RPD SERIES - 4" SIZE - INSTALLED WITHIN (E) CHAIN LINK FENCING SECURITY ENCLOSURE - PROTECT IN PLACE	NA	NA
		(E) NORMALLY OPEN MASTER VALVE	SUPERIOR	3300-SERIES - 2" SIZE - INSTALLED IN A VALVE BOX - PROTECT IN PLACE	NA	NA
		(E) NORMALLY CLOSED MASTER V.	SUPERIOR	3200-SERIES - 3" SIZE - INSTALLED IN A VALVE BOX - PROTECT IN PLACE	NA	NA
		(E) FLOW SENSORS	RAINMASTER	FS-200 - 2" / FS-150 - 1.5" - SCH. 40 PVC BODIES - SOLVENT WELD - IN SEPARATE VALVE BOXES - PROTECT IN PLACE	NA	NA
		(E) REMOTE CONTROL VALVES	SUPERIOR / FEBCO	MODELS VARY - INSTALLED IN INDIVIDUAL VALVE BOXES - EITHER PROTECT IN PLACE OR REMOVE AS NOTED ON IRRIGATION PLAN	NA	NA
		(E) POP UP TURF ROTOR	HUNTER	I-40 SERIES - REMOVE (E) ROTORS FROM NEW DEFINED GRASS AREA - PROTECT IN PLACE (E) ROTORS TO REMAIN IN OPERATION	NA	NA
		(E) BRASS BALL VALVE	MATCO-NORCA	759 SERIES - BRASS BODY - IN VALVE BOX - PROTECT IN PLACE	NA	NA
		(E) PRESSURE REGULATOR	WILKINS	500 SERIES - LINE SIZE - BRONZE BODY - THREADED - SPRING RANGE 10-125 PSI - IN VALVE BOX - PROTECT IN PLACE	NA	NA
		(E) QUICK COUPLER	RAIN BIRD	33-DRC - 3/4" INLET SIZE, 2 PIECE BRASS BODY, YELLOW COLORED COVER - IN 10" ROUND VALVE BOX - PROTECT IN PLACE	NA	NA
		(E) AUTO CONTROLLER	RAINMASTER	36 STATION EVOLUTION SERIES AUTO CONTROLLER IN A STAINLESS STEEL ENCLOSURE - PROTECT IN PLACE	NA	NA
		(E) HYDRAULIC CONVERTER	MOODY	UNIT IS MOUNTED ON A BACKBOARD WITHIN CHAIN LINK SECURITY ENCLOSURE - PROTECT IN PLACE	NA	NA
		(E) WIRE PULL BOX	CARSON	1324-12 (JUMBO) 16" WIDE X 25.5" LONG X 12" DEEP WITH GREEN BODY AND LOCKING LID - PROTECT IN PLACE	NA	NA
		IRRIGATION BOOSTER PUMP	SITE ONE GREEN TECH	MODEL PAP-26699 - ENCLOSED WITHIN A SECURITY ENCLOSURE - REFER TO PUMP DETAILS AND MANUFACTURER'S SPECS. V.U.S.D. SHALL PURCHASE THE PUMP ASSEMBLY DIRECTLY FROM SITE ONE GREEN TECH AND DELIVER TO A SITE ONE FACILITY IN OXNARD, CA. CONTRACTOR SHALL PROVIDE ALL REQUIRED EQUIPMENT AND LABOR TO PICK UP BOOSTER PUMP ASSEMBLY FROM SITE ONE FACILITY IN OXNARD AND DELIVER IT TO THE SITE. CONTRACTOR SHALL INSTALL THE PUMP ASSEMBLY ONTO THE (E) CONCRETE PUMP PAD WITHIN AN EXISTING CHAIN LINK FENCED ENCLOSURE AS PER PLANS AND MANUFACTURER'S SPECS.	X	L5.2
		IRRIGATION AUTO CONTROLLERS 'B' AND 'C'	TORO / SITE ONE GREEN TECH	SITE ONE GREEN TECH ASSEMBLY # SA8-RM2-16TW / GR-K / GR-K / (17) RMD-1 / (4) RMLA / (1,500') CAB14-B. (1) 16-STATION TORO EAGLE-PLUS AUTO CONTROLLER W/ STANDARD 14-GAUGE WIRE TERMINAL STRIP. (1) TWO-WIRE TORO EAGLE-PLUS AUTO CONTROLLER - INSTALLED TOGETHER WITHIN A STAINLESS STEEL SECURITY ENCLOSURE. BOTH AUTO CONTROLLERS WILL BE PRE-ASSEMBLED WITHIN THE SECURITY ENCLOSURE BY SITE ONE GREEN TECH. THE COMPLETED ASSEMBLY SHALL BE PRE-ASSEMBLED BY V.U.S.D. AND SHIPPED TO SITE ONE LANDSCAPE FACILITY IN OXNARD, CA. CONTRACTOR SHALL PROVIDE ALL REQUIRED EQUIPMENT AND LABOR TO PICK UP THE AUTO CONTROLLER ASSEMBLY WITH ALL OF THE FOLLOWING COMPONENTS, (17) SINGLE STATION VALVE DECODERS, (4) TWO-WIRE GROUND ROD ASSEMBLIES, (1) GROUND ROD ASSEMBLY FOR TRADITIONAL CONTROLLER, AND 1,500 LINEAR FEET OF TWO-WIRE CABLE ALL PRE-PURCHASED BY VUSD. CONTRACTOR SHALL DELIVER THE EQUIPMENT TO THE SITE AND SHALL INSTALL THE COMPONENTS AS PER PLANS.	X	L5.2
		(N) DUCTILE IRON GATE VALVE	NIBCO	MODEL SERIES F-619RW-SH, DUCTILE EPOXY COATED DUCTILE IRON FLANGED BODY - LINE SIZE - ORDER UNIT WITH A HEAVY DUTY OPERATING NUT, INSTALL ON MAINLINES 2" SIZE OR LARGER - IN A STANDARD RECTANGULAR GREEN VALVE BOX	3	NA
		(N) REMOTE CONTROL VALVE	SUPERIOR	950DW SERIES - BRASS BODY - INSTALL IN A JUMBO VALVE BOX AS PER REMOTE CONTROL VALVE DETAIL WITH TORO SINGLE STATION TWO-WIRE DECODER, IDENTIFIED ON PLANS AS 'RMD-1'. SPICE DECODER TO CABLE AND VALVE SOLENOID WITH EITHER TORO MODEL TW-SPLICE-14 OR 3M MODEL DBR-Y6 WATERPROOF WIRE SPLICE CONNECTORS. VALVE SIZES NOTED ON PLAN.	5	L5.1
		(N) PRESSURE REGULATING REMOTE CONTROL VALVE	SUPERIOR	950-PRS SERIES - BRASS BODY - INSTALL IN A JUMBO VALVE BOX AS PER REMOTE CONTROL VALVE DETAIL WITH TORO SINGLE STATION TWO-WIRE DECODER, IDENTIFIED ON PLANS AS 'RMD-1'. SPICE DECODER TO CABLE AND VALVE SOLENOID WITH EITHER TORO MODEL TW-SPLICE-14 OR 3M MODEL DBR-Y6 WATERPROOF WIRE SPLICE CONNECTORS. VALVE SIZES NOTED ON PLAN.	5	L5.1
		(N) QUICK COUPLER	RAIN BIRD	33-DRC - 3/4" INLET SIZE, 2 PIECE BRASS BODY, YELLOW COLORED COVER - IN 10" ROUND VALVE BOX	7	L5.1
		(N) IRRIG. UNIVERSAL AIR VALVE	CRISPIN	IC-10A (1" SIZE) - INSTALL IN STANDARD RECTANGULAR VALVE BOX WITH GREEN LOCKING LID	6	L5.1
		(N) TWO-WIRE CABLE PULL BOX	CARSON / EQUAL	1419-12 - GREEN LID - HEAT STAMP 1" TALL LETTERS 'PB'	8	L5.1
		LIQUID FERTILIZER DISPENSER	EZ-FLO INJECTION SYSTEMS	MODEL EZ205-HC - 25 GALLON CAPACITY TANK WITH EZ-FLO MODEL 'CBV-400' 4" SCH.		

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

DESCRIPTION	C-13
AVAILABLE STATIC WATER PRESSURE	50.0 PSI
LOSS THROUGH 6" WATER METER	2.0 PSI
LOSS FROM METER TO BACKFLOW DEVICE	1.5 PSI
LOSS THROUGH 4" BACKFLOW DEVICE	13.5 PSI
LOSS THROUGH 4" DUCTILE IRON TO PUMP INLET	0.5 PSI
AVAILABLE PRESSURE AT PUMP INLET	32.5 PSI
DISCHARGE PRESSURE AT PUMP	90.0 PSI
LOSS THROUGH (E) 3" MASTER VALVE	2.6 PSI
LOSS THROUGH 4" ASBESTOS-CEMENT MAINLINE	6.3 PSI
LOSS THROUGH 4" CLASS 315 PVC MAINLINE	2.2 PSI
LOSS THROUGH 2" REMOTE CONTROL VALVE	2.6 PSI
LOSS THROUGH SCH. 40 PVC LATERALS	6.2 PSI
LOSS THROUGH SYSTEM PIPE FITTINGS	3.5 PSI
LOSS DUE TO ELEVATION CHANGE	0.0 PSI
TOTAL FRICTION LOSS FROM PUMP	23.4 PSI
AVAILABLE PSI AT DISCHARGE OF PUMP	90.0 PSI
OPERATING PSI	66.6 PSI

A diagram of a hexagonal valve label. The label is divided into three sections by a vertical line and a horizontal line. The top section contains the text 'C-13'. The bottom section contains the text '2"'. The right section contains the text '83'. Callout lines point from the text labels to the corresponding sections: 'AUTO CONTROLLER / STATION NUMBER' points to the top section, 'REMOTE CONTROL VALVE SIZE' points to the bottom section, and 'GALLONS PER MINUTE' points to the right section.

(E) VALVE STATION
NUMBER PER RECORD
DRAWINGS - FIELD
VERIFY

(E) REMOTE CONTROL
VALVE SIZE

UNKNOWN EXISTING
GALLONS PER MINUTE

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Ventura Unified
SCHOOL DISTRICT

CLIENT
VENTURA UNIFIED
SCHOOL DISTRICT
255 WEST STANLEY AVENUE
VENTURA, CA. 93001

SHEET TITLE
IRRIGATION LEGEND

PROJECT
BALBOA MIDDLE SCHOOL
OPEN PLAY AREA
TURF RENOVATION
247 S HILL RD. VENTURA, CA 93003

[illegible]

DRAWING

L3.3

SHEET 6 OF 12
PROJECT No. 25.16



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SCHOOL DISTRICT
255 WEST STANLEY AVENUE
VENTURA, CA. 93001

SHEET TITLE
IRRIGATION PROJECT NOTES

PROJECT
BALBOA MIDDLE SCHOOL
OPEN PLAY AREA
TURF RENOVATION
247 S HILL RD, VENTURA, CA

247 S HILL RD, VENTURA, CA 93003

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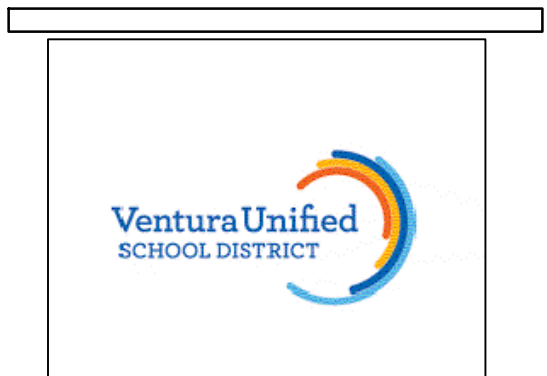
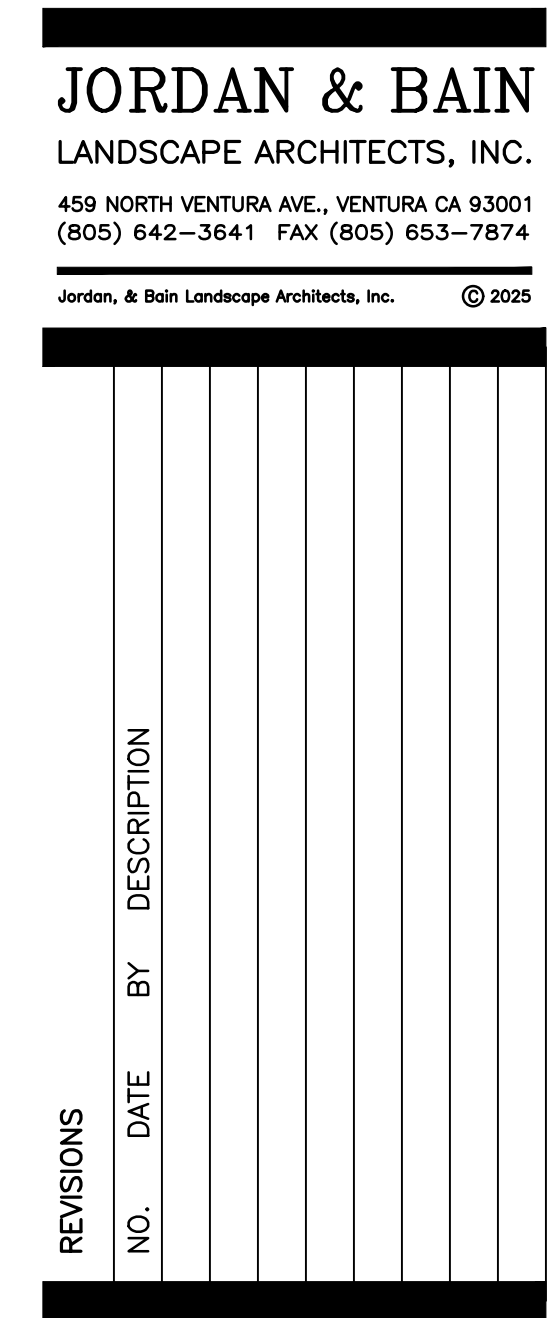
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SHEET 7 OF 12
PROJECT No. 25.16

IRRIGATION NOTES

3. PRIOR TO BEGINNING WORK, THE CONTRACTOR AND THE V.U.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 V.U.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. BOTH PARTIES LISTING ALL REMOTE CONTROL VALVES OBSERVED, 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 V.U.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 PRIOR TO THE CONCLUSION OF THE CONSTRUCTION WORK. IF REQUESTED BY THE V.U.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 V.U.S.D. 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 SYSTEM REVIEW, THE SITES PRIOR TO BEGINNING WORK 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 THE V.U.S.D.
2. 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 VENTURA UNIFIED SCHOOL DISTRICT (V.U.S.D.) REPRESENTATIVE AND REVIEW THE EXISTING SITE PRIOR TO BEGINNING WORK TO AVOID CONFLICTS WITH KNOWN ON-GRADE OR BURIED SITE UTILITIES.
3. 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 S.V.U.S.D.
4. THE IRRIGATION PLAN IS NOT AN ACTION 'AS-BUILT' DOCUMENT. THE BURIED IRRIGATION MAINLINE AND LATERAL PIPING HAS BEEN ILLUSTRATED BY THE LANDSCAPE ARCHITECT AS AN APPROXIMATE LAYOUT BASED ON FIELD MEASUREMENTS OF EXISTING VALVE BOX LOCATIONS AND SPRINKLER HEAD LOCATIONS WHICH WERE ACCURATELY SURVEYED INTO PLACE ON THE SITE PLAN. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING VALVE BOXES AND DETERMINING THE EXACT LOCATIONS OF ALL EXISTING IRRIGATION TURF ROTORS THAT ARE TO BE SALVAGED AND RETURNED TO THE VUSD REPRESENTATIVE.
5. THE CONTRACTOR SHALL FIELD VERIFY EXISTING STATIC WATER PRESSURE AND NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING ANY WORK.
6. THE CONTRACTOR SHALL 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.
7. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY TRENCH SETTLING OR IRRIGATION HEAD SETTLING. ALL TRENCHES WILL BE BACK FILLED WITH CLEAN SOIL, COMPACTED AND SEEDED WITH SEED MIX AS PER SPECIFICATIONS. ALL HEADS THAT SETTLE WILL BE RAISED TO 1/2" ABOVE FINISH GRADE. PROVIDE ADDITIONAL SOIL AS NECESSARY AND HAND TAMP AROUND HEAD TO PREVENT FUTURE SETTLING. PROVIDE NEW SEED AS NEEDED FOR REPAIR.
8. THE CONTRACTOR SHALL SLEEVE ALL PVC IRRIGATION PIPES AND WIRES INSTALLED UNDER PAVING. REFER TO SLEEVING SCHEDULE PROVIDED ON PLAN.
9. THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPE PLANTERS WHENEVER POSSIBLE.
10. ALL SPRINKLER HEADS ON THIS PROJECT ARE SPECIFIED WITH BUILT IN CHECK VALVES. IN THE EVENT OF LOW HEAD DRAINAGE, THE CONTRACTOR SHALL INSTALL INLINE CHECK VALVES IN LATERALS TO ELIMINATE ANY WATER LOSS THROUGH PVC LATERALS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGE TO THE EXISTING LAWN AREAS DUE TO CONSTRUCTION ACTIVITIES OR LACK OF WATER DUE TO NEW CONSTRUCTION. LOSS OF LAWN AREAS AS A RESULT OF CONTRACTOR'S DELAYED WORK PERFORMANCE OR DAMAGE AS A RESULT OF CONSTRUCTION EQUIPMENT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR WILL BRAND INTO THE REMOTE CONTROL VALVE BOX LIDS THE NEW VALVE STATION NUMBER FROM NEW AUTO CONTROLLER 'A'. PROVIDE CHRISTY STANDARD SIZE I.D. TAGS CONNECTED TO EACH VALVE SOLENOID WITH NEW STATION NUMBER.
13. ALL 14-GAUGE WIRES INSTALLED FOR CURRENT & FUTURE USE SHALL BE INSTALLED IN CONTINUOUS SCH. 40 PVC ELECTRICAL CONDUITS AND SHALL BE SEPARATE COLORS. COMMON WIRES SHALL BE WHITE, SPARE COMMON SHALL BE ORANGE, AND SPARE CONTROL WIRES SHALL BE RED. ALL REMOTE CONTROL VALVE CONTROL WIRES SHALL BE EITHER A SEPARATE SOLID COLOR OR HAVE INDIVIDUAL COLORED STRIPES ON OUTER JACKET.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL PRESSURE REDUCING VALVES TO OBTAIN THE OPERATING PRESSURE AS INDICATED IN THE IRRIGATION LEGEND.
15. THE CONTRACTOR SHALL INSTALL CARSON-BROOKS VALVE BOXES ONLY AS PER VENTURA UNIFIED SCHOOL DISTRICT STANDARDS.



SHEET TITLE
PLANTING PLAN

PROJECT
BALBOA MIDDLE SCHOOL
OPEN PLAY AREA
TURF RENOVATION
247 S HILL RD, VENTURA, CA 93003

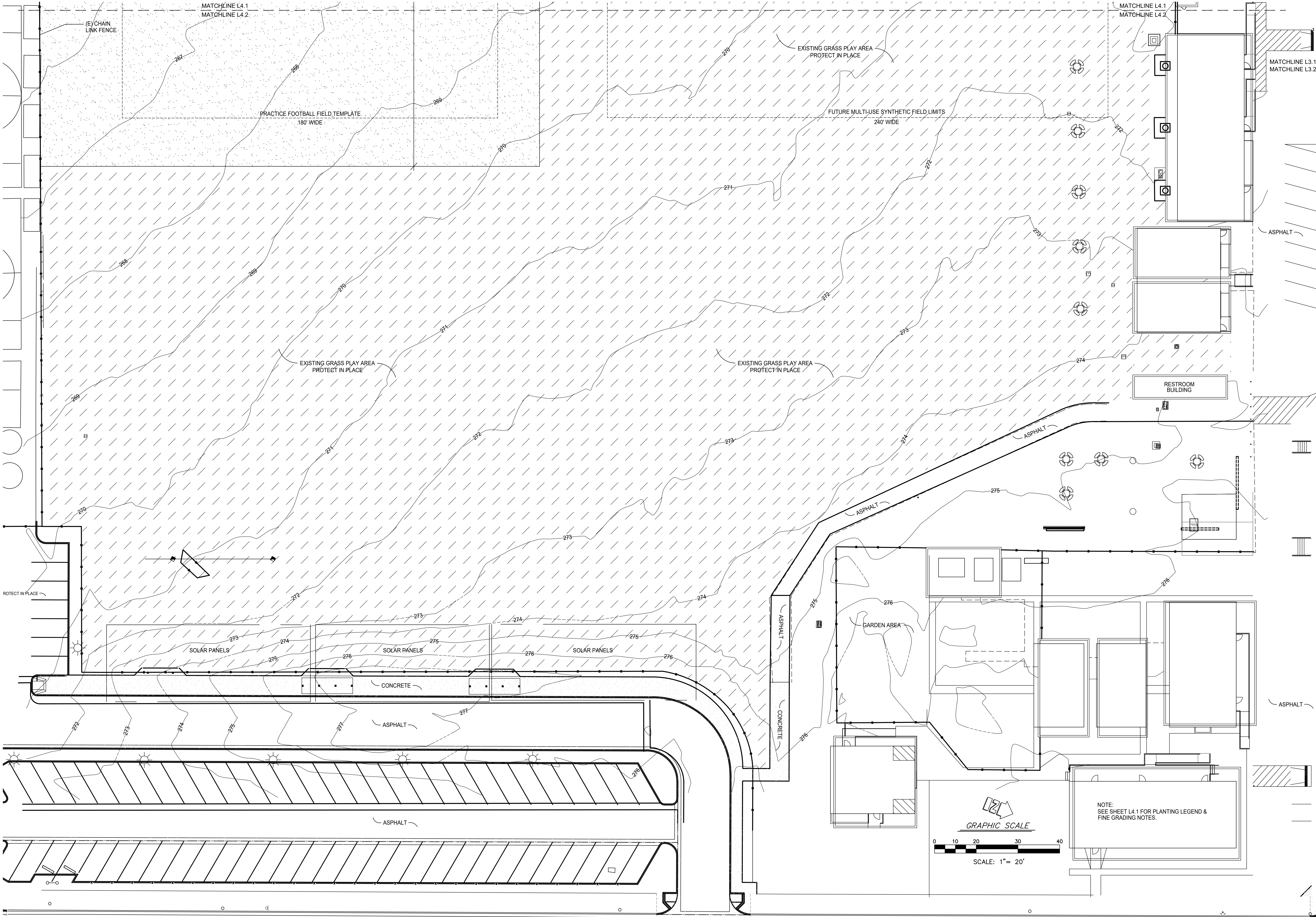
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SHEET 8 OF 12

PROJECT No. 25.16



SOUTH HILL ROAD

JORDAN & BAIN
LANDSCAPE ARCHITECTS, INC.

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

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REVISIONS		
NO.	DATE	DESCRIPTION



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SCHOOL DISTRICT
255 WEST STANLEY AVENUE
VENTURA, CA. 93001

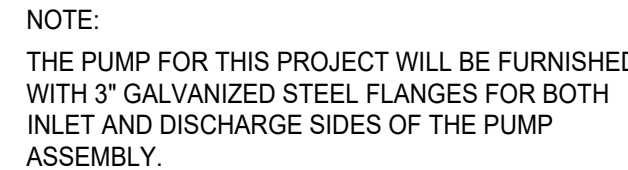
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PLANTING PLAN

PROJECT
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OPEN PLAY AREA
TURF RENOVATION
247 S HILL RD, VENTURA, CA 93003

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SHEET 9 OF 12
PROJECT No. 25.16

• Appropriate power to be provided by others - voltage & phase specified above from Customer provided information • Offloading & set up by others (unless delivery/set-up option offered and accepted) • Wet well, concrete pad(s), intake structure or other civil works to be provided by others. • Tie-in to main line and fluff lines to be performed by others (unless tie-in option offered and accepted) • Start-up and calibration by a PPS certified technician. (If option offered and accepted) • If on-site start-up is not to be provided call PPS to schedule a factory assisted on-phone start-up. 24 hour advance notice is required • No taxes are included in this quotation.						
CONTROL SYSTEM DETAILS						
• CONTROLLER:	PLC1e w/3.5" COLOR TOUCH SCREEN (SNC)					
• HMI:	COMBINATION PLC/HMI UNIT					
• ENVIRONMENTAL DESIGN:	NEMA 32 cabinet manufactured for INDOOR operation					
• MOTOR STARTING PRIMARY:	VFD - ALL MOTORS					
• VFD MODEL:	BEST FIT FOR APPLICATION					
• PANEL COOLING:	FORCED AIR					
• CONTROL SYSTEM MODEL NUMBER:	PBCS3-800S-015HP-203-PLC1E					
• CONTROL PANEL SIZE:	46" 30" 84x24-2010" FEET-0" TOTAL HEIGHT = 30"					
• SPECIFIED KAC:	NONE SPECIFIED					
WIRELESS CAPABLE - (L1 Modern) - No service included						
• UL Listed and Labeled (UL 508a)						
• Ethernet Capable for Internet Access						
• Clock Start Relay; 24vac (or 120vac)						
• System Fault Logger						
• VFD Stop by Flow, Wake By Pressure						
• Adjust VFD Sleep Settings on HMI						
• Single Motor Controller						
• Virtual Hand/Off-Auto Selector						
• Virtual VFD Speed Control (Potentiometer)						
• Trend Data logging with upload to USB						
MECHANICAL DETAILS						
PIPE COMPOSITION:						
GALVANIZED	ASTM A53 GROUP B STEEL PIPE - HOT DIP GALVANIZED					
BASE COMPOSITION:						
GALVANIZED	ASTM A36 STEEL PLATE - BREAK PRESS FOLDED- HOT DIP GALVANIZED					
GENERAL DETAILS:						
• PUMP CHECK VALVE(S)	GROOVED - Valmatic					
• STATION ISOLATION VALVE(S)	GROOVE B/FV					
• PRESSURE TANK:	2 GALLON - PS KIT					
• PRESSURE CLASS:	AWWA D 175 PSII					
COATING DETAILS:						
Pipe Interior:	GALVANIZED					
Pipe Exterior:	GALVANIZED					
Skid Base:	GALVANIZED					
Enclosure:	PPS BEIGE					
SENSORS						
• Suction Pressure Gauge	1	2.5" SS Liquid Filled	PSI = 0-100			
• Discharge Pressure Gauge	1	2.5" SS Liquid Filled	PSI = 0-200			
• Discharge Pressure Transmitter	1	IFM Stainless Steel	PSI = 0-200			
• Flow/No-Flow Switch	1					
OTHER						
• Intake Screen Supply Valve	NO					
• 1/2" Air Release Valve	1					
• All bare carbon steel is coated with Polyester TGIC baked on powder coating - or as otherwise specified						
• Shim Kit Provided (one per skid base)						
• Hose bib connection (where applicable)						
• Sample Tap for Potable Systems (where applicable)						
• Sample drains (where applicable)						
ENCLOSURE DETAILS						
• ENCLOSURE TYPE:	MARINE GRADE ALUMINUM					
• NUMBER OF ACCESS DOORS:	2					
• LID REMOVAL:	LIFT OFF					
• EXTERIOR SIDE FINISH:	MARINE GRADE ALUMINUM					
• ROOF COVERING:	MARINE GRADE ALUMINUM					
• ROOF GUTTERING:	CROSS-BREAK					
• ALL ACCESS LOCKABLE						
• REMOVABLE SIDE PANELS FOR ACCESS ON MARINE GRADE ALUMINUM ENCLOSURES						
• ALL ALUMINUM SURFACES INCLUDE BAKED ON POWDER COAT FINISH						

[illegible]

SHEET 1111E
LANDSCAPE DETAILS

PROJECT
BALBOA MIDDLE SCHOOL
OPEN PLAY AREA
TURF RENOVATION
247 S HILL RD, VENTURA, CA 93003

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PROJECT No. 25.16

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