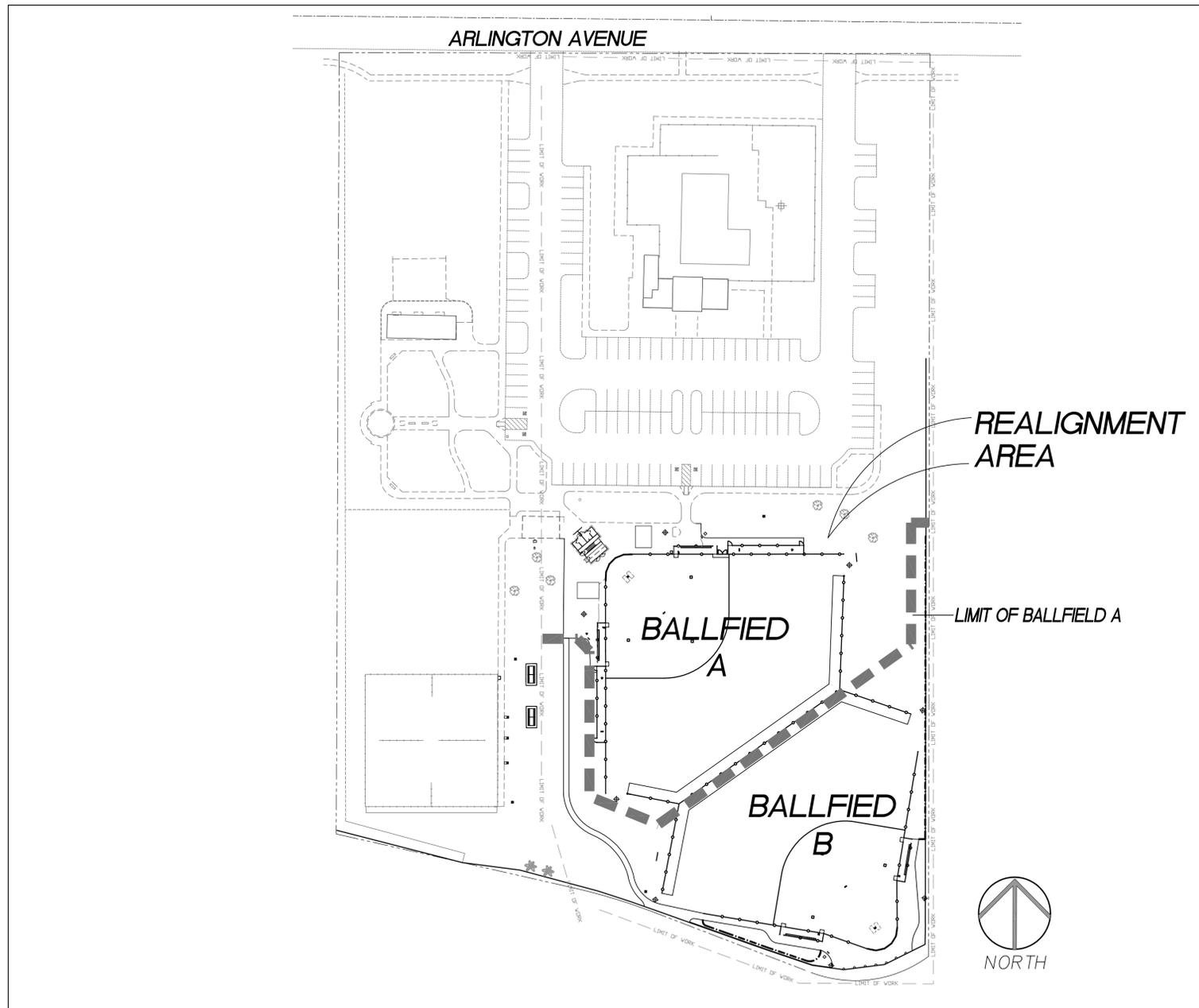
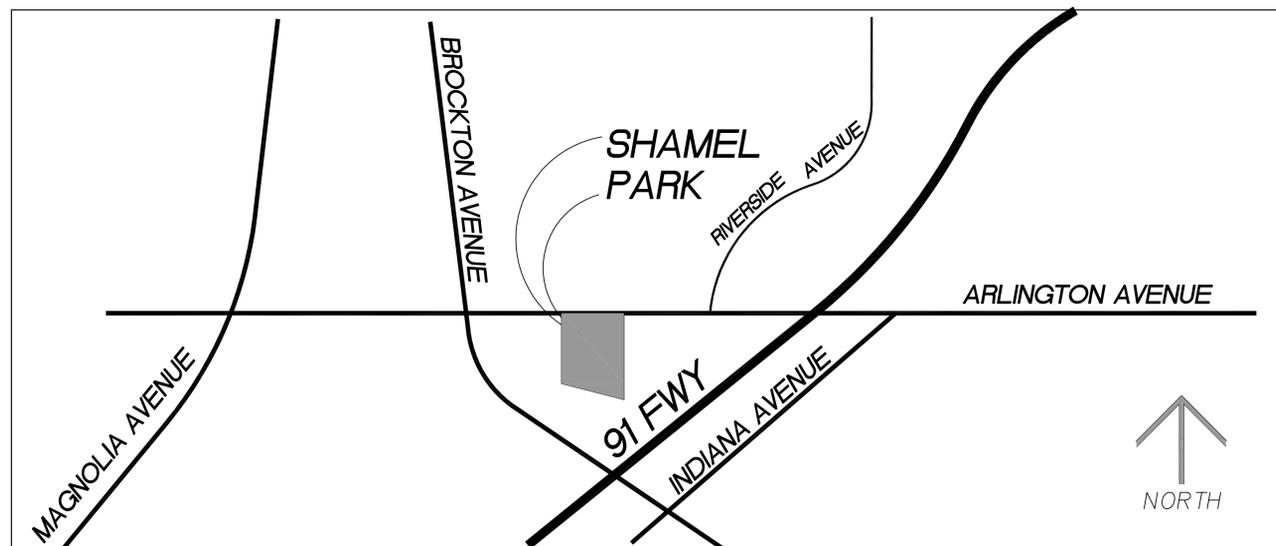


SITE PLAN



VICINITY MAP



PROJECT:

SHAMEL PARK BALLFIELD REALIGNMENT AND SPORTS LIGHTING

3650 ARLINGTON AVENUE, RIVERSIDE, CA. 92506

ALL NEW WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES: 1997 UBC, 2000 UMC, 2000 UPC, 2001 CA BUILDING CODE, 2001 CA MECHANICAL CODE, 2001 CA PLUMBING CODE, 2002 NATIONAL ELECTRICAL CODE, 2004 CA ELECTRICAL CODE

PREPARED FOR:

CITY OF RIVERSIDE
PARK AND RECREATION DEPARTMENT
3936 CHESTNUT STREET
RIVERSIDE, CA 92501
PHONE: (951) 826-2012
FAX: (951) 826-2010
CONTACT: BUD FISH

SHEET INDEX:

DRAWING	DESCRIPTION	DRAWING	DESCRIPTION
T-1	COVER	LP-1	PLANTING PLAN
LD-1	DEMOLITION PLAN	LP-2	PLANTING DETAILS
LG-1	GRADING PLAN	LS-1	EXISTING SURVEY
LC-1	CONSTRUCTION + STAKING PLAN	E01	ELECTRICAL PLAN
LC-2	CONSTRUCTION DETAILS	E11	ELECTRICAL PLAN
LC-3	CONSTRUCTION DETAILS	E12	ELECTRICAL PLAN
LI-0	IRRIGATION PIPING + CONDUIT PLAN	E21	ELECTRICAL DETAILS
LI-1	IRRIGATION PLAN	S11	STRUCTURAL GENERAL NOTES
LI-2	IRRIGATION DETAILS	S21	STRUCTURAL FOOTING DETAILS
LI-3	IRRIGATION DETAILS		

AGENCY SUBMITTAL:



4649 Brockton Avenue
Riverside, CA 92506
(951) 369-0700
Fax (951) 369-4039
<http://www.comworksdg.com>

APPROVALS

PARKS + RECREATION DEPT.
APPROVED BY: _____
DATE: _____

PLANNING DEPARTMENT
APPROVED BY: _____
DATE: _____

SHEET TITLE

T-1
SHEET 1 OF 19
PLAN NUMBER

BID NUMBER: 6439



DEMOLITION LEGEND:

DESCRIPTION
1 EXISTING RESTROOM/CONCESSION BUILDING TO REMAIN. PROTECT IN PLACE.
2 EXISTING CONCRETE WALK TO REMAIN. PROTECT IN PLACE.
3 EXISTING TREES TO REMAIN. PROTECT IN PLACE.
4 EXISTING SITE FEATURES TO REMAIN. PROTECT IN PLACE.
5 EXISTING CHAIN LINK FENCE TO REMAIN. REPAIR AND REPLACE ALL DAMAGED OR MISSING PORTIONS. PROTECT IN PLACE.
6 EXISTING SCOREBOARD TO BE RELOCATED ON-SITE TO NEW LOCATION SHOWN ON CONSTRUCTION PLAN. CONTRACTOR IS RESPONSIBLE FOR CONTACTING MANUFACTURER FOR INSTALLATION SPECIFICATIONS.
7 EXISTING SCOREBOARD TO REMAIN. PROTECT ALL CONDUIT AND ELECTRICAL CONNECTIONS TO SYSTEM.
8 EXISTING FOUL POLE TO BE RELOCATED. SEE CONSTRUCTION PLAN FOR NEW LOCATION.
9 EXISTING ALUMINUM BLEACHERS TO BE SALVAGED AND RELOCATED. REFER TO CONSTRUCTION PLAN FOR NEW LOCATION.
10 EXISTING TREE TO BE REMOVED. ALL REMAINING ROOTS 2" IN DIA. AND LARGER, STUMP, ETC. SHALL BE THOROUGHLY REMOVED FROM THE SOIL. ALL REMOVED MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
10A EXISTING TREE TO BE REMOVED, IF NECESSARY, AFTER BALLFIELD LIGHTING IS INSTALLED. FINAL DECISION TO BE MADE BY CITY INSPECTOR DURING CONSTRUCTION.
11 EXISTING TURF SHOWN SHALL HAVE A NON SELECTIVE HERBICIDE APPLIED AT TWO WEEK INTERVALS UNTIL COMPLETELY ERADICATED. AFTER ERADICATION, THE TURF SHALL BE SCALPED TO REMOVE THE LAYER OF DEAD VEGETATION. ALL REMOVED MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
12 EXISTING CONCRETE CURB TO BE REMOVED. ALL REMOVED MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
13 EXISTING CONCRETE TO BE REMOVED. DOUBLE SAW CUT AND NIBBLE BACK, ALL REMOVED MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
14 EXISTING QUICK COUPLING VALVE TO BE REMOVED AND DISPOSED OF OFFSITE IN A LEGAL MANNER
15 EXISTING CONCRETE DRINKING FOUNTAIN TO BE REMOVED AND DISPOSED OF OFFSITE IN A LEGAL MANNER. MAINTAIN DOMESTIC LINE SPUR FOR NEW DRINKING FOUNTAIN AS SHOWN ON CONSTRUCTION PLAN.
16 EXISTING SPORTS LIGHTING POLE, PANEL, BALLASTS, RACKS, AND FLOODLIGHT FIXTURES. REMOVE EXISTING FLOODLIGHTS, MOUNTING HARDWARE, PANELS, BALLASTS, ENCLOSURES, LAMPS AND OTHER LIGHTING COMPONENTS. REMOVED ALL ELECTRICAL FEEDERS BACK TO FINAL OVERCURRENT DEVICE. ABANDON UNDERGROUND CONDUITS. REMOVE SPORTS LIGHTING POLES AND FOOTINGS FROM THE SITE, AND DO NOT REUSE.
17 EXISTING BACKSTOP AND DUGOUT POSTS AND FENCING, CONCRETE FOOTINGS, CURBS, PAVING, WOOD BOARDS, ETC. TO BE REMOVED AND DISPOSED OF OFF-SITE IN A LEGAL MANNER.
18 EXISTING BALLFIELD AMENITIES: BLEACHERS, BASES, HOMEPLATE, AND PLAYERS BENCHES TO BE REMOVED AND DISPOSED OF OFF-SITE IN A LEGAL MANNER.
19 EXISTING BALLFIELD BRICK DUST TO BE REMAIN. PROTECT IN PLACE
20 EXISTING SECURITY LIGHT AND POLE TO REMAIN. PROTECT IN PLACE.
21 EXISTING SECURITY LIGHT, POLE, AND FOOTING TO BE REMOVED. CONTRACTOR TO COORDINATE WITH CITY FORCES TO STORE LIGHT FIXTURE AND POST FOR FUTURE INSTALLATION. REMOVE ALL ELECTRICAL FEEDERS BACK TO A LOCATION OUT OF NEW BALLFIELD BOUNDARY AND INSTALL A PULL BOX FOR FUTURE SECURITY LIGHT INSTALLATION.
22 EXISTING TURF TO REMAIN. CONTRACTOR SHALL PERFORM TURF RENOVATION PROCESS AS DIRECTED ON THE PLANTING PLAN.

NOTE:
 *ALL 50 GALLON DRUM METAL WASTE RECEPTACLES TO BE SALVAGED AND RELOCATED UNDER CITY MAINTENANCE DIRECTION.
 *ALL EXISTING SEWER MAN HOLES AND CLEAN OUTS TO BE MAINTAINED. CONTRACTOR SHALL RAISE/LOWER MANHOLE COVERS AND CLEAN OUT CAPS, PER APWA STANDARD 205-1; SHEETS 1-3 (1997), TO MATCH THE NEW GRADES. REFER TO GRADING PLAN FOR FINAL GRADES.
 *CONTRACTOR TO REVIEW AS-BUILT PLANS FOR EXISTING UNDERGROUND CONDUITS/ CONDUCTORS FOR BASEBALL AND FOOTBALL FIELDS. DRAWINGS ARE AVAILABLE AT PUBLIC WORKS OFFICE. CONTRACTOR IS RESPONSIBLE FOR POT-HOLING PRIOR TO GRADING AND EXCAVATION. NOT ALL UNDERGROUND CONDUITS ARE SHOWN ON THESE PLANS.
 *ABANDON IN PLACE ALL EXISTING SITE AND BUILDING ELECTRICAL FEEDERS AND BRANCH CIRCUIT CONDUCTORS IN AREA OF DEMOLITION.
 *ALL EXISTING CONCRETE REMOVED AS A RESULT OF DEMOLITION AND REMOVALS SHALL BE PATCHED AND REPLACED PER DETAIL 'B', SHEET LC-2.
 *SEE IRRIGATION PLAN FOR ALL IRRIGATION VALVE, HEAD, AND SYSTEM ADJUSTMENTS.

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 Riverside, CA 92501
 (951) 369-0700
 Fax: (951) 369-4039
 www.comworksdg.com

REGISTERED LANDSCAPE ARCHITECT
 10/21/08
 10-26-08
 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
 REGISTERED LANDSCAPE ARCHITECT, RLA 2110
 TAX ID # 27168 EXP. DATE 3/01/07
 SCALE: 1"=20'-0"
 DATE: 10/9/06

CITY OF RIVERSIDE
 3900 MAIN STREET
 RIVERSIDE, CA

BENCHMARK
 -
 -
 -

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ANH DRAWN BY ANH CHECKED BY TIM

CITY OF RIVERSIDE, CALIFORNIA
 PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL LANDSCAPE ARCHITECT			
RECREATION SUPERINTENDENT			
PARKS SUPERINTENDENT			

DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT
 DATE

SHAMEL PARK
 BALLFIELD REALIGNMENT + SPORTS LIGHTING
 RIVERSIDE, CA
 Demolition Plan

PROJECT NO. 051272
LD-1
 SHEET 2 OF 19
 FILE NO. PC-064473

- GRADING PLAN NOTES:**
- [] ALL GRADING SHALL CONFORM TO THE RIVERSIDE MUNICIPAL CODE, TITLE 17 AND APPENDIX CHAPTER 33, VOL.1 OF THE CURRENT CITY-ADOPTED EDITION OF THE UNIFORM BUILDING CODE. CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING SWPPP PLAN AND ACQUIRING OFFICIAL GRADING PERMIT FOR THE PROJECT PRIOR TO BEGINNING THE GRADING OPERATIONS.
 - [] ALL PROVISIONS OF THE PRELIMINARY SOILS REPORT COORDINATED BY GENERAL CONTRACTOR SHALL BE COMPLIED WITH DURING GRADING OPERATIONS. CITY BUSINESS TAX CERTIF. NO. AND EXP. DATE TO BE PROVIDED UPON COORDINATION WITH A SOILS ENGINEER.
 - [] THIS PLAN IS FOR GRADING PURPOSES ONLY AND IS NOT TO BE USED FOR THE PURPOSE OF CONSTRUCTING ON-SITE OR OFF-SITE IMPROVEMENTS. ISSUANCE OF A PERMIT BASED ON THIS PLAN DOES NOT CONSTITUTE APPROVAL OF DRIVEWAY LOCATIONS OR SIZES, PARKING LOT STRUCTURAL SECTIONS OR LAYOUT, ADA-RELATED REQUIREMENTS, BUILDING LOCATIONS OR FOUNDATIONS, WALLS, CURBING, OFF-SITE DRAINAGE FACILITIES OR OTHER ITEMS NOT RELATED DIRECTLY TO THE BASIC GRADING OPERATION. ON-SITE IMPROVEMENTS SHALL BE CONSTRUCTED FROM APPROVED BUILDING PERMIT PLANS. OFF-SITE IMPROVEMENTS SHALL BE CONSTRUCTED FROM PLANS APPROVED FOR THIS PURPOSE BY THE PUBLIC WORKS DEPARTMENT.
 - [] CERTIFICATION FROM THE REGISTERED (LANDSCAPE ARCHITECT) STATING THAT THE GRADING HAS BEEN COMPLETED PER THE APPROVED PLAN, AND A COMPACTION REPORT FROM THE SOIL ENGINEER FOR FILL AREAS ARE REQUIRED PRIOR TO BUILDING PERMITS BEING ISSUED.
 - [] CONTRACTOR IS RESPONSIBLE FOR EROSION, DUST AND TEMPORARY DRAINAGE CONTROL DURING GRADING OPERATIONS AND ALL PHASES OF CONSTRUCTION.
 - ALL MANUFACTURED SLOPES IN EXCESS OF 5' IN VERTICAL HEIGHT ARE TO BE PROTECTED FROM EROSION DURING ROUGH GRADING OPERATIONS AND, THEREAFTER, UNTIL INSTALLATION OF FINAL GROUND COVER. (SEE LANDSCAPE PLANS FOR FINAL GROUND COVER)
 - ALL SLOPE PROTECTION SWALES TO BE CONSTRUCTED AT THE SAME TIME AS BANKS ARE GRADED.
 - [] THE DEVELOPER AND HIS CONTRACTOR ARE RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN AND SWPPP AND ALSO TO PROVIDE ANY ADDITIONAL EROSION CONTROL MEASURES (E.G., HYDROSEEDING, MULCHING OF STRAW, SANDBAGGING, INVERSION DITCHES, RETENTION BASINS, ETC.) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION AND/OR THE INTRODUCTION OF DIRT, MUD OR DEBRIS INTO EXISTING PUBLIC STREETS AND/OR ONTO ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS. SPECIAL ATTENTION SHALL BE GIVEN TO ADDITIONAL EROSION CONTROL MEASURES NOTED ABOVE DURING THE PERIOD OCTOBER 15 TO APRIL 15.
 - [] AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND CHECK DAMS. SILT AND DEBRIS SHALL BE REMOVED FROM CITY OF RIVERSIDE STREETS. THIS REQUIREMENT SHALL REMAIN IN EFFECT UNTIL CITY ACCEPTANCE OF THIS PROJECT.
 - [] ANY IMPROVEMENTS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE A SEPARATE CONSTRUCTION PERMIT AND INSPECTION FROM THE PUBLIC WORKS DEPARTMENT.
 - [] ANY WALLS, FENCES, STRUCTURES AND/OR APPURTENANCES ADJACENT TO THIS PROJECT ARE TO BE PROTECTED IN PLACE. IF GRADING OPERATIONS DAMAGE OR ADVERSELY AFFECT SAID ITEMS IN ANY WAY, THE CONTRACTOR AND/OR DEVELOPER IS RESPONSIBLE FOR WORKING OUT AN ACCEPTABLE SOLUTION TO THE SATISFACTION OF THE AFFECTED PROPERTY OWNER(S).
 - [] THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR ENSURING THAT RETAINING WALLS DO NOT INTERFERE WITH PROVISION OF UTILITIES.
 - [] IT IS THE GRADING CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ADEQUATE COMPACTION HAS BEEN ATTAINED ON THE ENTIRE GRADING SITE, INCLUDING FILL AREAS OUTSIDE THE BUILDING PADS AND ON ALL FILL SLOPES.
 - [] IT IS THE SOIL ENGINEER'S RESPONSIBILITY TO OBSERVE AND PERFORM COMPACTION TESTS DURING THE GRADING TO EVALUATE THE PREPARATION OF THE NATURAL GROUND SURFACE TO RECEIVE THE FILL AND THE COMPACTION ATTAINED IN THE FILL, INCLUDING FILL AREAS OUTSIDE THE BUILDING PADS AND ON ALL FILL SLOPES.
 - [] EARTHWORK QUANTITIES ARE SHOWN FOR GRADING PERMIT PURPOSES ONLY, AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
 - [] FOR GRADING OF AREAS OF 1 ACRE OR MORE, A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT ON-SITE AND MADE AVAILABLE UPON REQUEST OF A REPRESENTATIVE OF THE REGIONAL WATER QUALITY CONTROL BOARD (RWQCB)- SANTA ANA REGION AND/OR THE CITY OF RIVERSIDE.
 - [] GRADING OPERATIONS SHALL BE LIMITED TO BETWEEN THE HOURS OF 7 A.M. AND 7 P.M. ON WEEKDAYS AND BETWEEN 8 A.M. AND 5 P.M. ON SATURDAYS. NO GRADING WILL BE PERMITTED ON SUNDAY OR FEDERAL HOLIDAYS. (RIVERSIDE MUNICIPAL CODE, 7.35.010, ORDINANCE NO. 6273)
 - [] NO GRADING SHALL TAKE PLACE BEYOND THE LIMIT OF WORK LINE OF THE PROJECT. ALL CONTRACT GRADING SHALL TAKE PLACE WITHIN THE CITY PARK PROPERTY LINE.

GRADING LEGEND:

SYMBOL	DESCRIPTION
---	EXISTING 5' CONTOUR LINE
---	NEW 5' CONTOUR LINE
---	LIMIT OF GRADING
○	CHAINLINK FENCE W/ CONCRETE MOWCURB BASE
---	PROPERTY LINE
---	CONCRETE MOWCURB
(50.0)	EXISTING ELEVATION (IN PARENTHESIS)
50.0	NEW ELEVATION
→	DIRECTION OF FLOW
TC	TOP OF CURB
FS	FINISH SURFACE
TS	TOP OF SUMP
□	INSTALL SUMP PER DETAIL 'C', LC-3.

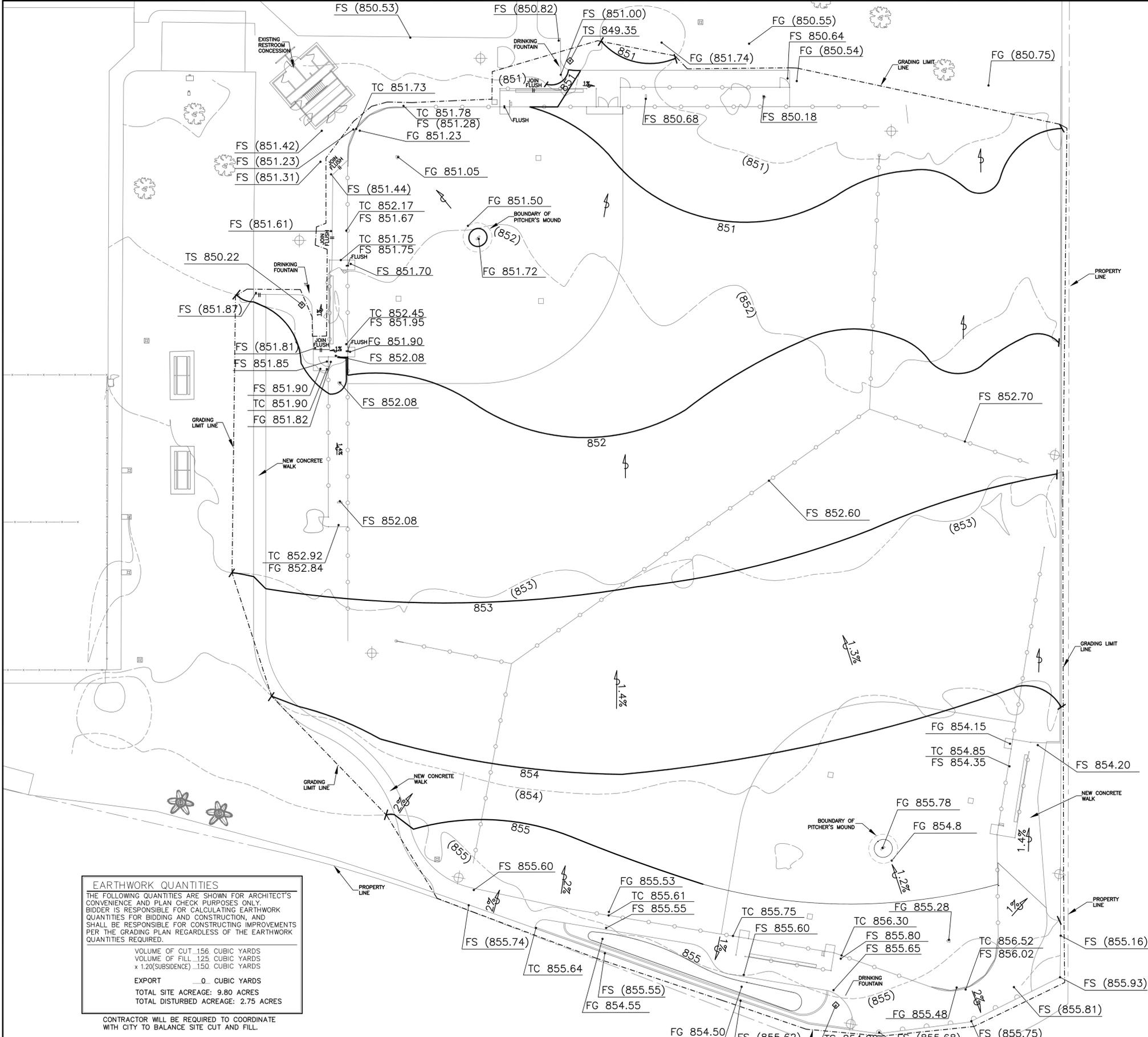
NOTE: *JOIN NEW PAVING FLUSH TO EXISTING PAVING (WHERE OCCURS)
 *ALL PLAY SURFACES SHALL SLOPE AT 2% MAX. IN ANY DIRECTION.
 *ALL WALKWAYS SHALL SLOPE AT 2% MAX. LONGITUDINAL GRADE.
 *EXCEPTION: ALL TURNING AREAS/CHANGES IN DIRECTION SHALL SLOPE AT 2% MAX.
 *ALL PAVING TABLE PADS SHALL SLOPE AT 2% MAX. IN ANY DIRECTION.

EARTHWORK QUANTITIES
 THE FOLLOWING QUANTITIES ARE SHOWN FOR ARCHITECT'S CONVENIENCE AND PLAN CHECK PURPOSES ONLY. BIDDER IS RESPONSIBLE FOR CALCULATING EARTHWORK QUANTITIES FOR BIDDING AND CONSTRUCTION, AND SHALL BE RESPONSIBLE FOR CONSTRUCTING IMPROVEMENTS PER THE GRADING PLAN REGARDLESS OF THE EARTHWORK QUANTITIES REQUIRED.

VOLUME OF CUT: 156 CUBIC YARDS
 VOLUME OF FILL: 125 CUBIC YARDS
 x 1.20 (SUBSIDENCE) = 150 CUBIC YARDS

EXPORT: 0 CUBIC YARDS
 TOTAL SITE ACREAGE: 9.80 ACRES
 TOTAL DISTURBED ACREAGE: 2.75 ACRES

CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH CITY TO BALANCE SITE CUT AND FILL.



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REGISTERED LANDSCAPE ARCHITECT
 TIMOTHY I. MALONEY
 10/31/08
 10/9/06
 27168
 3/01/07

PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
 REGISTERED LANDSCAPE ARCHITECT, RLA
 EXPIRATION DATE: 10/31/08 DATE: 10/9/06
 TAX ID #: 27168 EXP. DATE: 3/01/07

CITY OF RIVERSIDE
 3900 MAIN STREET
 RIVERSIDE, CA

BENCHMARK
 DESCRIPTION: P.K. NAIL AND CITY ENGINEER TAG IN THE SOUTHERLY WING OF A CATCH BASIN ON THE WEST SIDE OF BROCKTON AVENUE, 79 FEET SOUTHERLY OF ARLINGTON AVENUE. (BM TRANSFER FROM NAVAL)

MARK: _____ REVISIONS: _____ APPR. DATE: _____
 DESIGNED BY: ANH DRAWN BY: ANH CHECKED BY: TIM

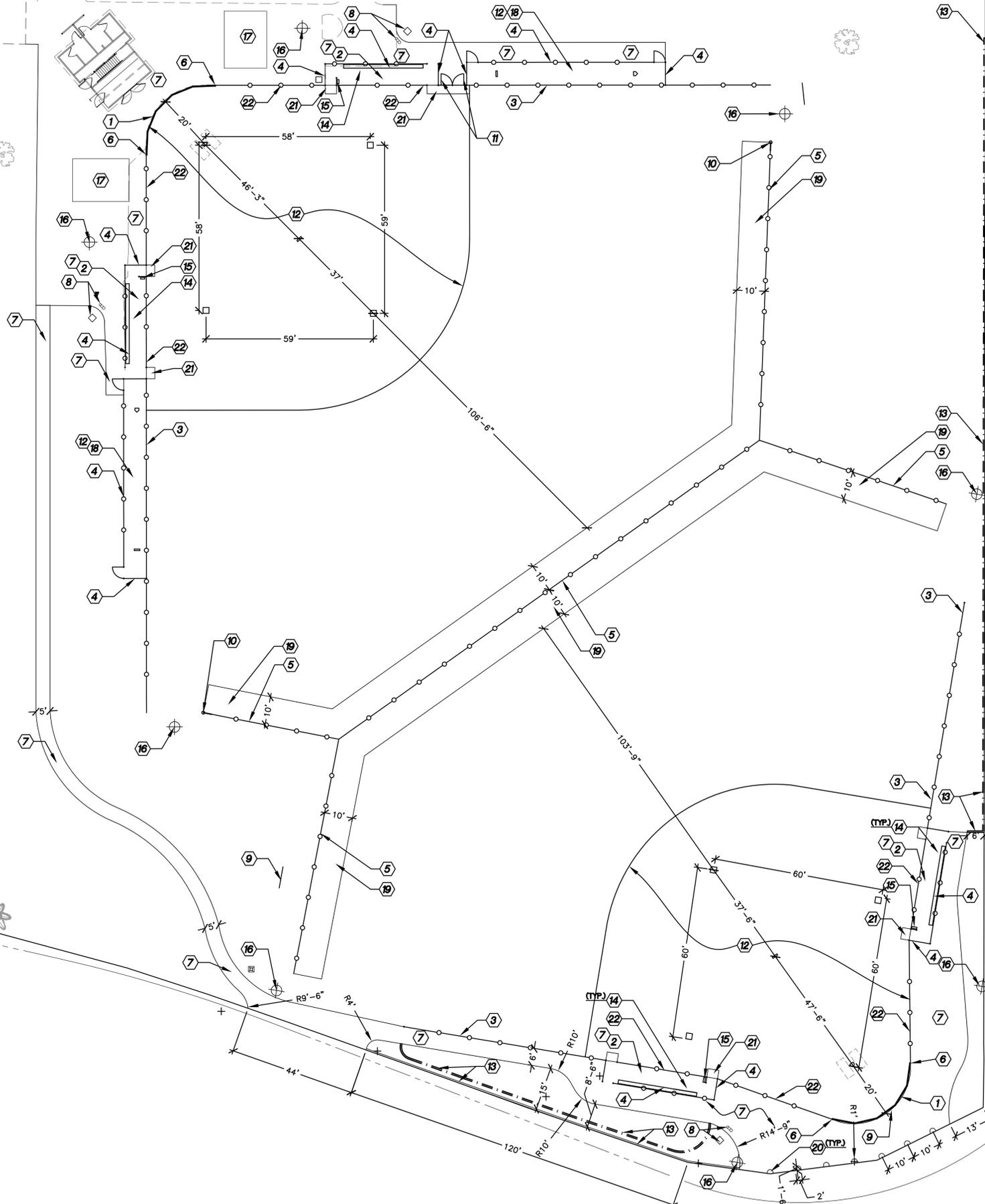
CITY OF RIVERSIDE, CALIFORNIA
 PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT

APPROVED BY: _____ BY: _____ DATE: _____
 PRINCIPAL LANDSCAPE ARCHITECT
 RECREATION SUPERINTENDENT
 PARKS SUPERINTENDENT

DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT
 DATE: _____

SHAMEL PARK
 BALLFIELD REALIGNMENT + SPORTS LIGHTING
 RIVERSIDE, CA
 Grading Plan

PROJECT NO. 051272
LG-1
 SHEET 3 OF 19
 FILE NO. PC06-4473



CONSTRUCTION LEGEND:

DESCRIPTION	DETAIL
① CONSTRUCT NEW CANTILEVER BACKSTOP WITH BACKBOARDS.	DETAIL A, SHEET LC-2 DETAIL K, SHEET LC-3
② CONSTRUCT NEW DUGOUT.	DETAILS B & C SHEET LC-2
③ INSTALL 10' TALL GALVANIZED CHAIN LINK FENCE WITH 12" WIDE MOWCURB.	DETAILS D, E, & F SHEET LC-2
④ INSTALL 6' TALL GALVANIZED CHAIN LINK FENCE WITH 12" WIDE MOWCURB.	DETAILS D, E, & F SHEET LC-2
⑤ INSTALL 4' TALL GALVANIZED CHAIN LINK OUTFIELD FENCE WITH 12" WIDE MOWCURB.	DETAILS D & E SHEET LC-2
⑥ ATTACH NEW BACKSTOP FENCING TO NEW 10' CHAIN LINK FENCING.	-
⑦ CONSTRUCT NEW 4" THICK CONCRETE. COLOR: NATURAL GREY. FINISH: MEDIUM BROOM.	DETAILS G & H, SHEET LC-2 DETAIL A, SHEET LC-3
⑧ INSTALL NEW PEDESTAL DRINKING FOUNTAIN AND DRAINAGE SUMP. COLOR: BLUE. IN-GROUND MOUNT.	DETAILS B & C SHEET LC-3
⑨ RELOCATE EXISTING SCOREBOARD. CONTACT MANUFACTURER FOR INSTALLATION SPECIFICATIONS.	-
⑩ RELOCATE EXISTING FOUL POLE. CONTACT MANUFACTURER FOR INSTALLATION SPECIFICATIONS.	-
⑪ CONSTRUCT 10' WIDE DOUBLE SWING CHAINLINK LEAF GATE. CONTRACTOR TO PROVIDE SHOP DRAWINGS.	-
⑫ INSTALL ANGEL INFIELD MIX FOR THE ENTIRE INFIELD TO 3" MIN DEPTH AFTER COMPACTION. COLOR: RED, AVAILABLE FROM CORONA CLAY (951) 277-2667.	DETAIL D SHEET LC-3
⑬ CONSTRUCT 6" WIDE REINFORCED MOW CURB.	DETAIL E SHEET LC-3
⑭ INSTALL NEW PLAYER'S BENCH.	DETAIL F SHEET LC-3
⑮ INSTALL NEW BAT RACK.	DETAIL G SHEET LC-3
⑯ INSTALL NEW BALLFIELD LIGHT POLE, FOOTING, AND FIXTURES. ALL CONCRETE REMOVED TO INSTALL LIGHT POLE SHALL BE REPLACED.	-
⑰ RE-INSTALL EXISTING RELOCATED ALUMINUM BLEACHERS.	-
⑱ CONSTRUCT NEW BULLPEN.	DETAIL I SHEET LC-3
⑲ INSTALL BRICK DUST FOR THE WARNING TRACK TO 4" MINIMUM DEPTH AFTER COMPACTION. SPRAY WITH BINDER.	DETAIL D SHEET LC-3
⑳ VINE POCKET CONCRETE CUT-OUTS	-
㉑ 4" THICK CONCRETE DUGOUT RAMP. MAXIMUM SLOPE 1:12.	DETAIL C SHEET LC-2
㉒ INSTALL 10' TALL GALVANIZED CHAIN LINK FENCE WITH 6" WIDE MOWCURB.	DETAILS D, E, & F SHEET LC-2

SURVEYOR TO CONTACT COMMUNITY WORKS DESIGN GROUP FOR ELECTRONIC BASE FOR STAKING.

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PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
REGISTERED LANDSCAPE ARCHITECT, RLA 2110
EXPIRATION DATE 10/31/08 DATE 10/9/06
SCALE: 1"=20'-0" NORTH: [North Arrow]
DATE: 10/9/06

CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA

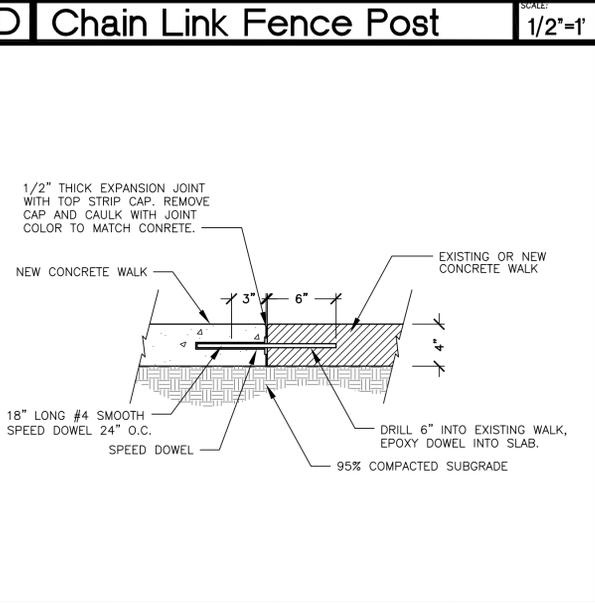
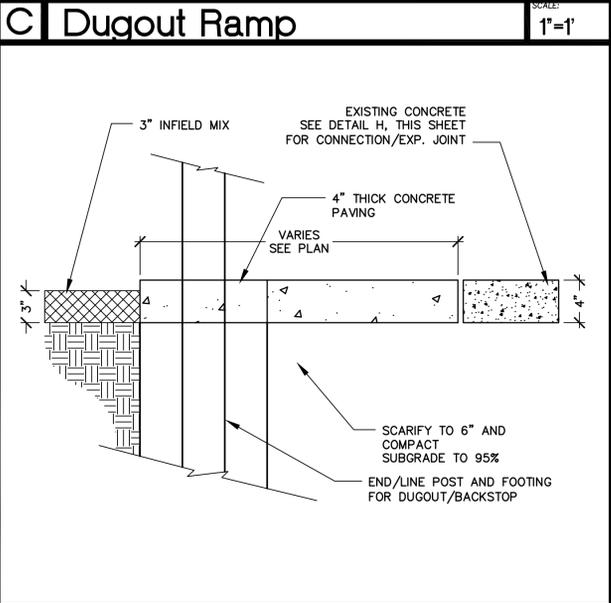
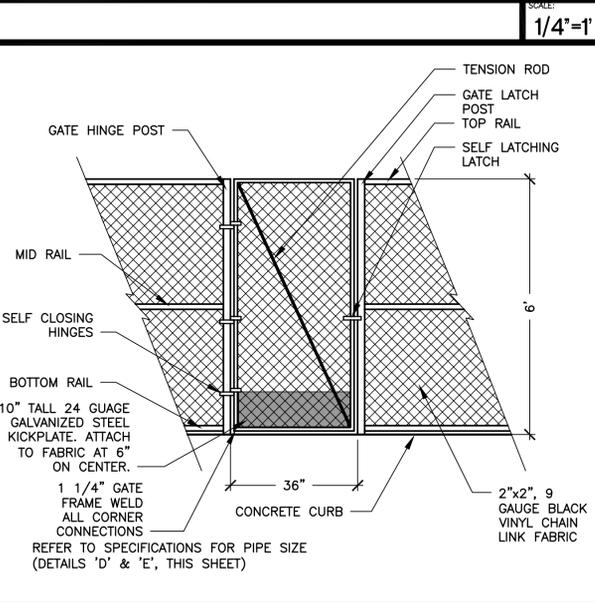
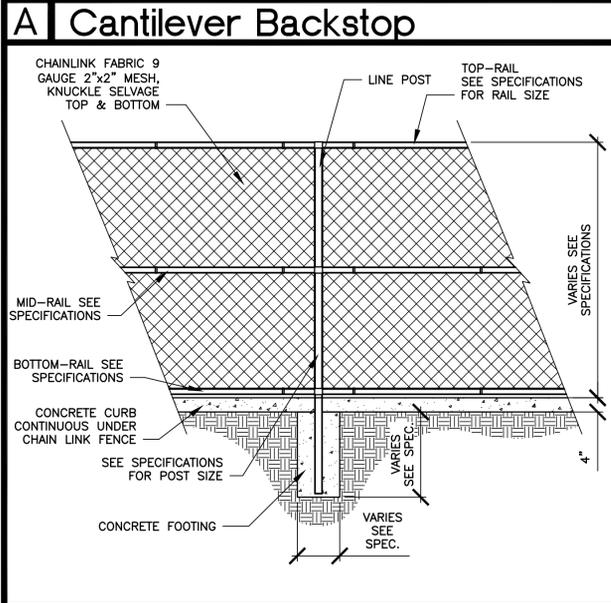
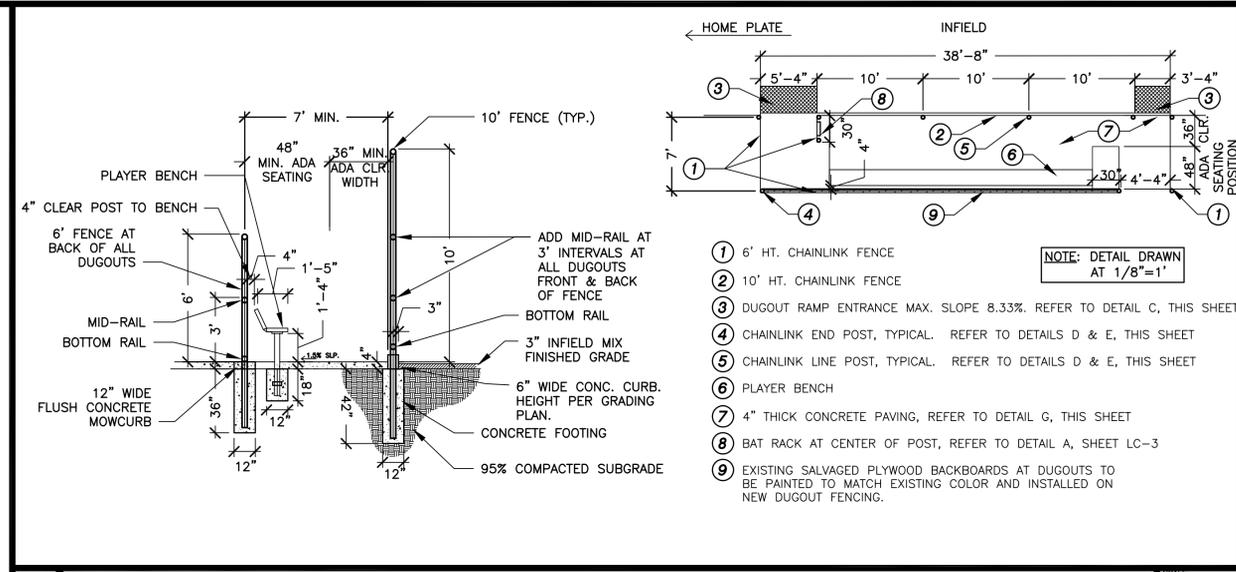
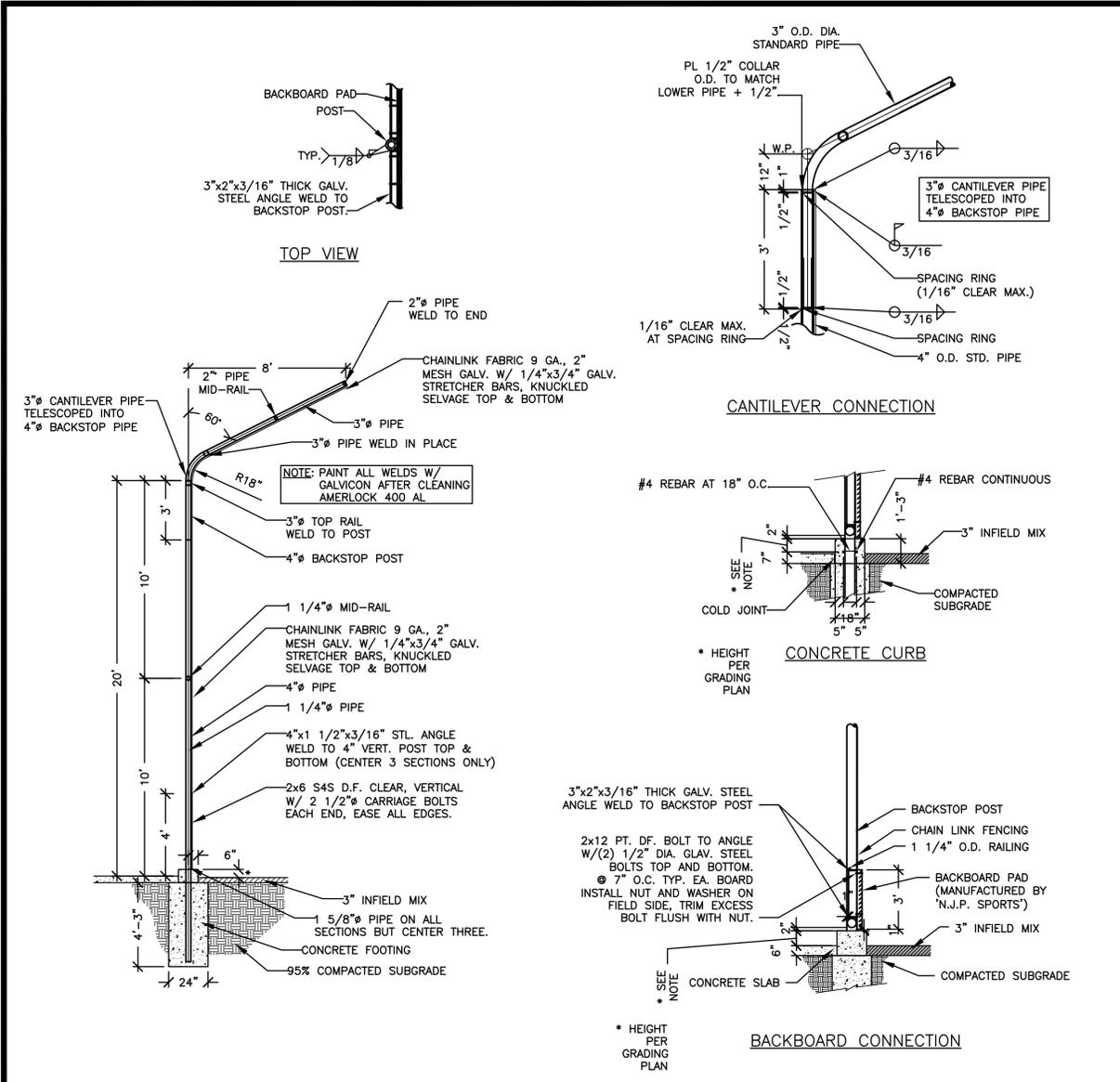
MARK	REVISIONS	APPR.	DATE
DESIGNED BY ANH	DRAWN BY ANH	CHECKED BY TIM	

CITY OF RIVERSIDE, CALIFORNIA
PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL LANDSCAPE ARCHITECT			DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT
RECREATION SUPERINTENDENT			
PARKS SUPERINTENDENT			

SHAMEL PARK
BALLFIELD REALIGNMENT + SPORTS LIGHTING
RIVERSIDE, CA
Construction Plan

PROJECT NO. 051272
LC-1
SHEET 4 OF 19
FILE NO. PC06-4473



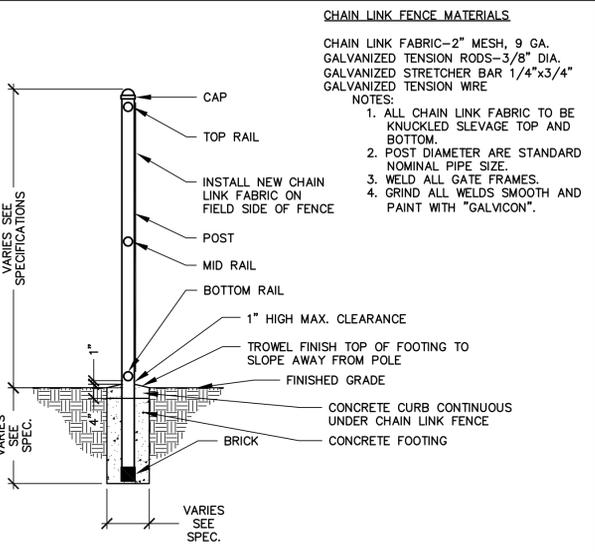
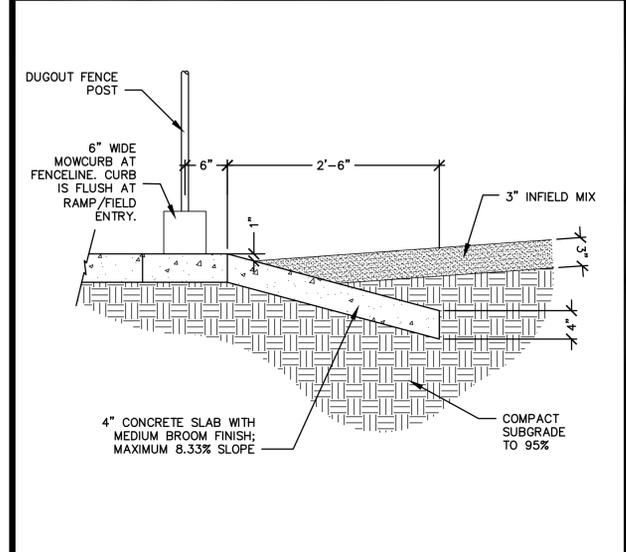
A Chain Link Fence SCALE: 1/2"=1'

F Chain Link Gate SCALE: 1/2"=1'

G 4" Concrete Paving SCALE: 1.5"=1'

H Connection - Exist. Conc. SCALE: 1.5"=1'

B Dugout SCALE: 1/4"=1'



PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
REGISTERED LANDSCAPE ARCHITECT, RLA 2110
EXPIRATION DATE 10/31/08 DATE 10/9/06

SCALE: N.T.S. NORTH: BENCHMARK: -

DATE: 10/9/06

CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA

MARK REVISIONS APPR. DATE

DESIGNED BY ANH DRAWN BY ANH CHECKED BY TIM

CITY OF RIVERSIDE, CALIFORNIA
PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT

APPROVED BY: _____ BY: _____ DATE: _____

PRINCIPAL LANDSCAPE ARCHITECT: _____

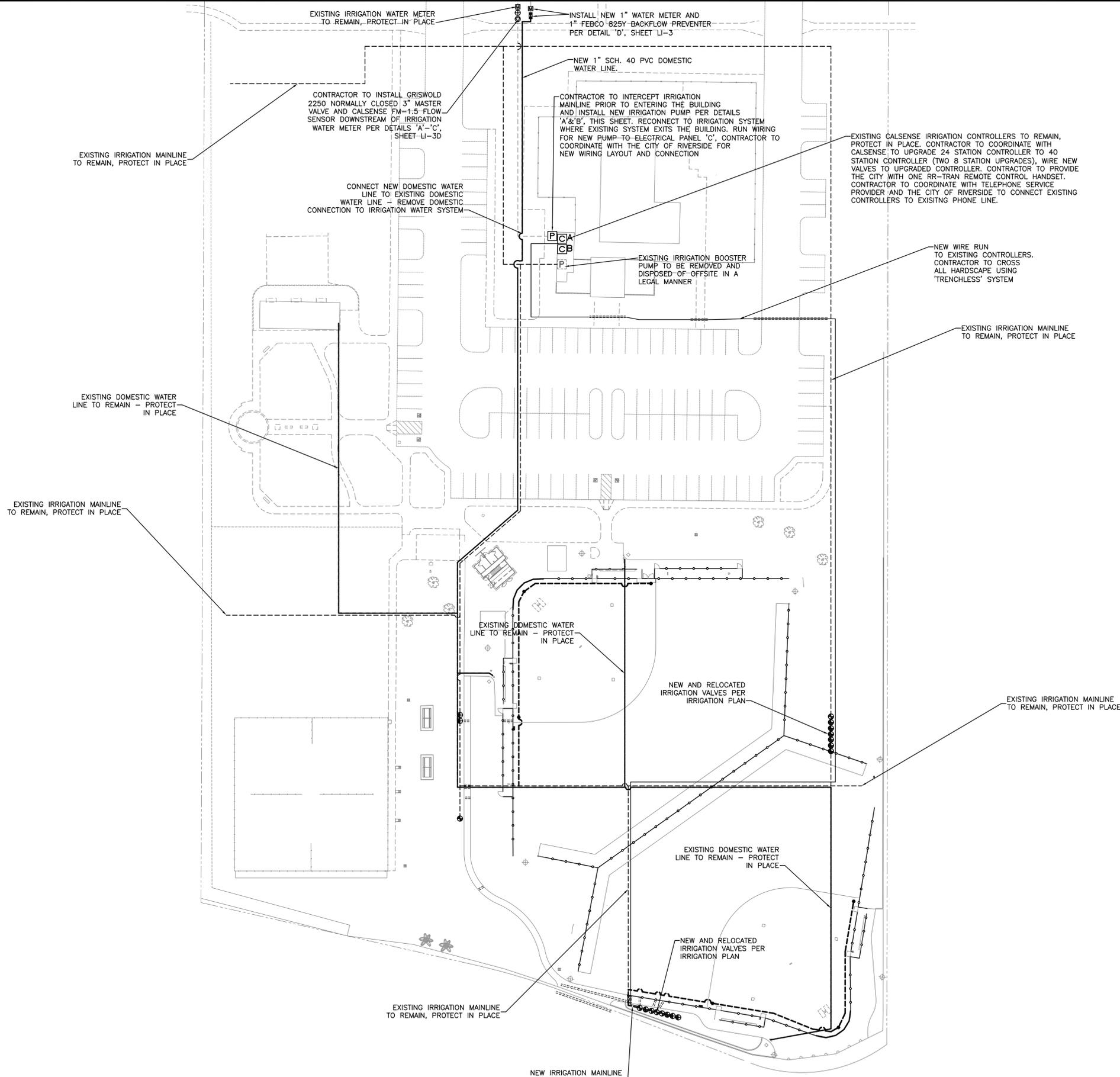
RECREATION SUPERINTENDENT: _____

PARKS SUPERINTENDENT: _____

DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT: _____ DATE: _____

SHAMEL PARK
BALLFIELD REALIGNMENT + SPORTS LIGHTING
RIVERSIDE, CA
Construction Details

PROJECT NO. 051272
LC-2
SHEET 5 OF 19
FILE NO. PC06-4473



IBC615J-7.5-2-2.5/FSW	100 GPM	90 PSI	2 1/2 INCH
SYSTEM MODEL NUMBER	SYSTEM DESIGN FLOW RATE	SYSTEM DESIGN PRESSURE	SYSTEM PIPING SIZE
40 PSI	208/230/460 VAC (specify)	3 PHAZE 60 Hz	
MINIMUM SUCTION PRESSURE	SYSTEM ELECTRICAL VOLTAGE	SYSTEM ELECTRICAL PHASE & FREQUENCY	
C615J	45 GPM	127 FEET	
PUMP MODEL NUMBER	PUMP CAPACITY (GPM)	PUMP TOTAL HEAD (FEET)	
7.5 HP	3500 RPM	20 AMPS @ 230V/3PH	
PUMP HORSEPOWER	PUMP RPM	SYSTEM FULL LOAD AMPERAGE	

A Pump Design Parameters

- PUMP NOTES:**
- SIMPLEX WATER PRESSURE BOOSTER SYSTEM AS DESIGNED AND FABRICATED BY BARRETT ENGINEERED PUMPS AND PROVIDED BY GREEN TECH (800) 427-0779. THE SYSTEM SHALL BE A COMPLETELY PREFABRICATED SYSTEM WITH PUMP, PIPING, ELECTRICAL AND STRUCTURAL ELEMENTS. THE ENTIRE BOOSTER PUMP ASSEMBLY SHALL BE UL LISTED AND APPROVED
 - PUMP SHALL BE SINGLE STAGE END SUCTION CLOSE COUPLED CENTRIFUGAL, CAST IRON BRONZE FITTED CONSTRUCTION, EQUIPPED WITH MECHANICAL SHAFT SEAL, BACK PULLOUT DESIGN. IMPELLER SHALL BE KEYPED AND LOCKED TO THE SHAFT WITH A HEX HEAD IMPELLER NUT AND WASHER. PUMP SHAFT SHALL HIGH STRENGTH S.A.E. 1045 CARBON STEEL PROTECTED IN THE STUFFING BOX AREA BY A REPLACEABLE BRONZE SHAFT. PUMP SHALL BE DIRECTLY COUPLED TO A C-FACE ELECTRIC MOTOR.
 - ELECTRIC MOTOR SHALL BE OF THE SQUIRREL CAGE INDUCTION TYPE SUITABLE FOR FULL VOLTAGE STARTING. MOTOR SHALL BE ODP TO AID IN COOLING. ELECTRIC MOTOR SHALL BE RATED FOR CONTINUOUS SERVICE. THE MOTOR SHALL HAVE HORSEPOWER RATINGS SUCH THAT THE MOTOR WILL CARRY THE MAXIMUM POSSIBLE LOAD TO BE DEVELOPED UNDER THE DESIGNED PUMPING CONDITIONS AND NOT OVERLOAD THE MOTOR BEYOND THE NAMEPLATE RATING OF THE MOTOR. MOTOR SHALL HAVE A 1.15 SERVICE FACTOR. THE MOTOR SHALL CONFORM TO THE LATEST NEMA STANDARDS FOR MOTOR DESIGN AND CONSTRUCTION.
 - PUMP CONTROL PANEL SHALL HAVE A NEMA 4X PLAIN FRONT NON-METALLIC ENCLOSURE WITH PADLOCK LATCHES. INCLUDES POWER AND CONTROL RESEATABLE THERMAL CIRCUIT BREAKERS, HEAVY DUTY MAGNETIC STARTER WITH ADJUSTABLE OVERLOAD PROTECTION, HAND-OFF-AUTO SWITCH TO SELECT MODE OF OPERATION, AND HEAVY DUTY NUMBERED TERMINAL STRIPS FOR POWER AND CONTROL WIRING LEAD TERMINALS.
 - METAL OXIDE VARISTOR PROTECTED PUMP START RELAY(S) INCORPORATED IN PANEL TO START PUMP WITH SIGNAL FROM EACH IRRIGATION CONTROLLER.
 - ALL SYSTEM PIPING SHALL BE TYPE 'L' COPPER. ALL FITTINGS SHALL BE COPPER OR BRASS, WITH UNIONS OR FLANGES TO ALLOW SYSTEM DISASSEMBLY OR MAJOR COMPONENT REMOVAL. SYSTEM SHALL INCORPORATE AN INTEGRAL FULL PIPE SIZE BYPASS LINE WITH ISOLATION VALVE, TO ALLOW FOR PUMP REMOVAL AND REPAIR WITHOUT DISRUPTING WATER SUPPLY SYSTEM.
 - ISOLATION VALVE SHALL BE ALL BRASS QUARTER TURN BALL VALVES WITH HARD CHROME BALL ON LINES 2" AND LESS. ISOLATION VALVES SHALL BE LUG STYLE BUTTERFLY VALVES WITH BUNA-N ELASTOMERIC SEATS, DUCTILE IRON NICKEL COATED DISC, AND STAINLESS STEEL STEM WITH HANDLE AND 10 POSITION GALVANIZED MEMORY PLATE ON LINE 2 1/2" AND GREATER.
 - GAUGES SHALL BE 2 1/2" DIAMETER FACE, GLYCERIN FILLED WITH STAINLESS CASING AND BRASS INTERNALS.
 - FLOW ACTIVATED PADDLE STYLE MAGNETICALLY COUPLED FLOW SWITCH, SENSITIVE TO FLOWS AS LOW AS 1 FPS, MOUNTED ON PIPING AND INTERCONNECTED TO TIME DELAY TO SHUT DOWN PUMP ON NO-FLOW CONDITIONS, TIME DELAY RELAY ADJUSTABLE FROM 0 TO 5 MINUTES.
 - PUMP SYSTEM SHALL BE MOUNTED ON A STRUCTURAL ALUMINUM SKID WITH MOUNTING FLANGES ON FRONT AND BACK TO ALLOW FOR MOUNTING OF SKID TO CONCRETE PAD. SKID EQUIPPED WITH PIPE SUPPORT ON SUCTION AND DISCHARGE PIPING. ALL NUTS AND BOLTS AND WASHERS TO BE HEAVY ZINC COATED STEEL ON SKID AND PIPING. SKID SHALL INCLUDE MOUNTING HARDWARE FOR INTEGRAL ALUMINUM ENCLOSURE.
 - THE SYSTEM ENCLOSURE SHALL BE VANDAL AND WEATHER RESISTANT, MARINE GRADE ALUMINUM ALLOY 5052-H32 CONSTRUCTION WITH RECTANGULAR PUNCH OUTS FOR VIEWING AND HEAT DISSIPATION. THE COVER SHALL BE SECURED TO THE CONCRETE PAD WITH STAINLESS STEEL HARDWARE.
 - THE PUMP ASSEMBLY SHALL INCLUDE THE FOLLOWING OPTIONS: (FSW) WHERE SPECIFIED BY THE SYSTEM DESIGN PARAMETERS, FLOW ACTIVATED NON-ADJUSTABLE PIVOTING VANE STYLE MAGNETICALLY COUPLED FLOW SWITCH, WITH 300 SERIES STAINLESS VANE, BRASS BODY AND WEATHERPROOF ENCLOSURE. FLOW SWITCH SENSITIVE TO FLOWS AS LOW AS 1 FPS, WITH ELECTRICAL CONTACT RATINGS OF 5 AMPS AT 125/250 VAC, PRESSURE RATED TO 250 PSI, MOUNTED ON PIPING AND INTERCONNECTED TO TIME DELAY RELAY TO SHUT DOWN PUMP ON NO-FLOW CONDITIONS, TIME DELAY ADJUSTABLE FROM 0 TO 5 MINUTES. (OPTION: FLOW SWITCH TO PROVIDE ON-OFF CONTROL OF PUMPING UNIT)
 - THE SERVICES OF A FACTORY REPRESENTATIVE OR TRAINED SERVICE PROFESSIONAL SHALL BE MADE AVAILABLE ON THE JOB SITE TO CHECK INSTALLATION AND PERFORM THE STARTUP AND INSTRUCT THE OPERATING PERSONNEL. A STARTUP REPORT CONTAINING VOLTAGE AND AMPERAGE READINGS, SUCTION AND DISCHARGE PRESSURE READINGS, ESTIMATED FLOW CONDITIONS, AND GENERAL OPERATING CHARACTERISTICS SHALL BE SUBMITTED TO THE OWNER.
 - FOUR SETS OF OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNER AFTER STARTUP AND SHALL INCLUDE PARTS MANUALS FOR MAJOR COMPONENTS, PERFORMANCE CURVE FOR PUMP, GENERAL SEQUENCE OF OPERATION, AND ELECTRICAL SCHEMATIC FOR CONTROL PANEL.

B Irrigation Pump Notes

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 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

COMWORKSDG
 4649 Brockton Avenue
 Riverside, CA 92501
 (951) 369-0700
 Fax: (951) 369-4039
 www.comworksdg.com

REGISTERED LANDSCAPE ARCHITECT
 10/31/08
 10/31/08
 10/31/08
 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
 REGISTERED LANDSCAPE ARCHITECT, RLA 2110
 EXPIRATION DATE 10/31/08 DATE 10/9/06
 SCALE: 1"=20'-0" NORTH:
 DATE: 10/9/06

CITY OF RIVERSIDE
 3900 MAIN STREET
 RIVERSIDE, CA

BENCHMARK
 -
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MARK REVISIONS APPR. DATE
 DESIGNED BY **KCK** DRAWN BY **KCK** CHECKED BY **TIM**

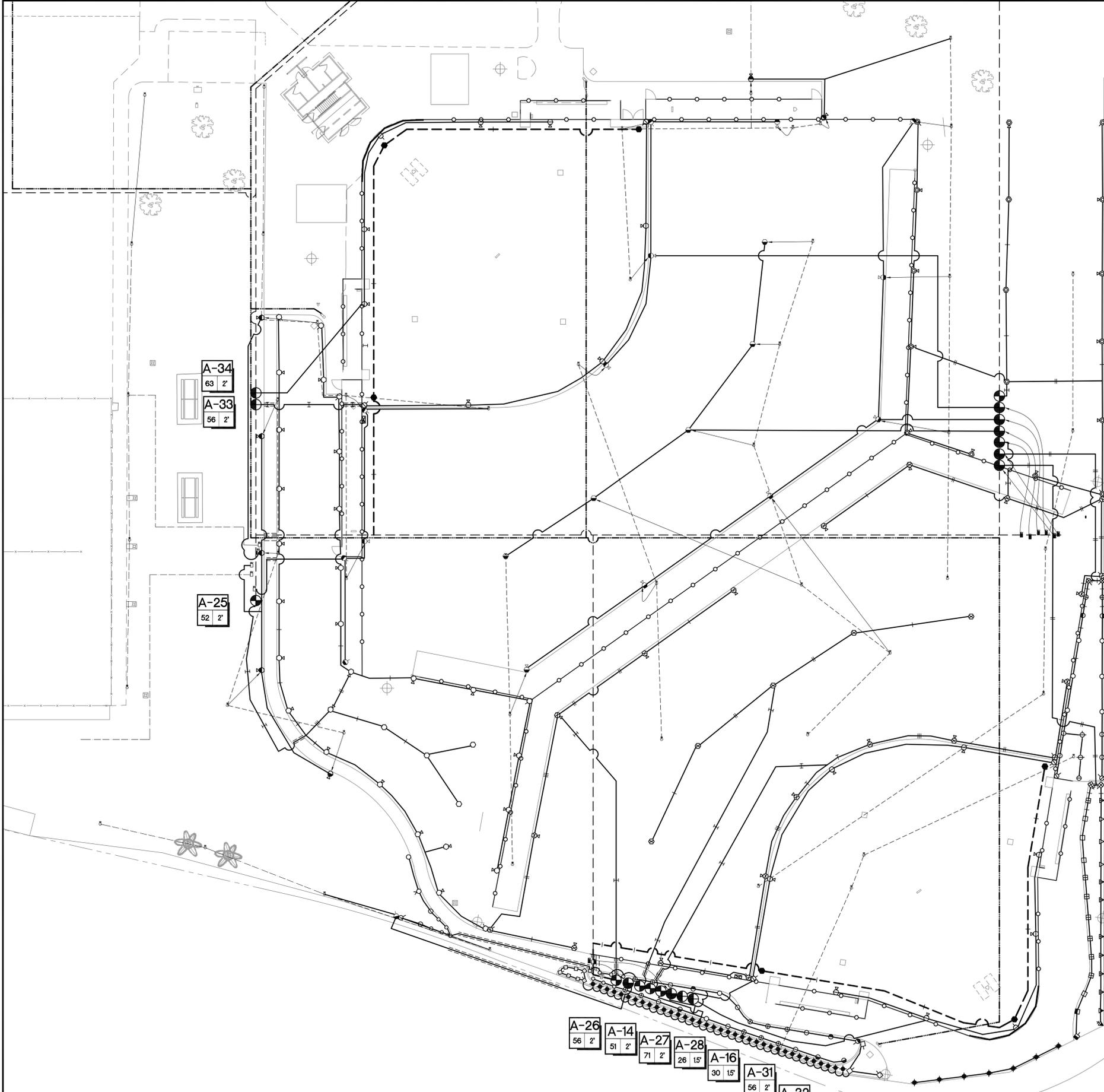
CITY OF RIVERSIDE, CALIFORNIA
 PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT

APPROVED BY
 PRINCIPAL LANDSCAPE ARCHITECT
 RECREATION SUPERINTENDENT
 PARKS SUPERINTENDENT

APPROVED BY
 DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT

SHAMEL PARK
 BALLFIELD REALIGNMENT + SPORTS LIGHTING
 RIVERSIDE, CA
 Irrigation Piping + Conduit Plan

PROJECT NO. 051272
LI-0
 SHEET 7 OF 19
 FILE NO. PC06-4473



EQUIPMENT LEGEND				
SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
NOT SHOWN	EXISTING IRRIGATION WATER METER	N/A	N/A	-
NOT SHOWN	EXISTING CALSENSE IRRIGATION CONTROLLER	16 STA.	N/A	-
NOT SHOWN	EXISTING REDUCED PRESSURE BACKFLOW PREVENTER	4"	'D', LI-3	-
NOT SHOWN	REPLACE EXISTING PUMP	4"	N/A	-
	EXISTING IRRIGATION CONTROL VALVE TO REMAIN - PROTECT IN PLACE	N/A	N/A	-
	EXISTING IRRIGATION CONTROL VALVE TO BE RELOCATED, SEE PLAN FOR NEW LOCATION	N/A	N/A	-
	RAINBIRD #33DLRC SERIES QUICK COUPLING VALVE	3/4"	'D', LI-2	-
	INTERUPT SWITCH FOR INFIELD IRRIGATION - LOCATE ADJACENT TO FENCE	N/A	'J&'K', LI-2	-
	RELOCATED EXISTING REMOTE CONTROL ELECTRIC VALVE	N/A	'A', LI-2	(1)
	RAINBIRD PEB SERIES ELECTRIC CONTROL VALVE	PLAN SIZE	'A', LI-2	(1)
	RAINBIRD PEB SERIES ELECTRIC CONTROL VALVE WITH INTERRUPT SWITCH LOCATED NEAR DUGOUT FOR MANUAL ACTIVATION	PLAN SIZE	'A', LI-2 'J&'K', LI-2	(1)
	EXISTING IRRIGATION MAINLINE	3"	N/A	-
	IRRIGATION MAINLINE: SCH. 40 (18" MIN. CVR) - CLS 315 (24" MIN. CVR) 2" AND LESS: SCH. 40 2 1/2" AND MORE: CLS. 315	PLAN SIZE	'B', LI-2	-
	EXISTING NON-PRESSURE LATERAL LINE TO REMAIN - PROTECT IN PLACE	N/A	N/A	-
	EXISTING PVC DOMESTIC WATER LINE TO REMAIN - PROTECT IN PLACE	1"	N/A	-
	REMOVE EXISTING NON-PRESSURE LATERAL LINE - DISPOSE OF OFFSITE IN A LEGAL MANNER	N/A	N/A	-
	CLASS 200 PVC NON-PRESSURE LATERAL LINE - 12" MIN. COVER	PLAN SIZE	'B', LI-2	-
	SCH 40 PVC IRRIGATION PIPE / WIRE SLEEVE - 24" MIN. COVER	SEE CHART	'C', LI-2	-
NOT SHOWN	UF RATED CONTROL WIRE, 12 GA COMMON, 14 GA PILOT	12/14 GA	'D', LI-2	-

(1) VALVES IN VALVE CLUSTERS TO BE INSTALLED A MINIMUM OF 36" APART.

SPRINKLER LEGEND														
SYMBOL	MANUFACTURER/MODEL #	NOZZLE	RAD.	PSI	FLOW (GPM)							DETAIL	NOTES	
					Q	T	H	TT	TQ	F	Van			
TURF POP-UP SPRAY HEADS														
	RAINBIRD 1804-SAM-PRS-5	Q/H	5'-6"	30	0.10	0.20							'E', LI-2	
	RAINBIRD 1804-SAM-PRS-8	Q/H	7'-8"	30	0.26	0.52							'E', LI-2	
	RAINBIRD 1804-SAM-PRS-10	Q/H/F	9'-10"	30	0.39	0.79				1.52			'E', LI-2	
	RAINBIRD 1804-SAM-PRS-12	H	11'-12"	30		1.30							'E', LI-2	
	RAINBIRD 1804-SAM-PRS-15	Q/H/TT	13'-15"	30	0.92	1.85	2.48						'E', LI-2	
SHRUB HI-POP SPRAY HEADS														
	RAINBIRD 1812-SAM-PRS-8	Q/H	7'-8"	30	0.26	0.52							'F', LI-2	(1)
	RAINBIRD 1812-SAM-PRS-10	H	9'-10"	30		0.79							'F', LI-2	(1)
	RAINBIRD 1812-SAM-PRS-12	Q/H	11'-12"	30	0.65	1.30							'F', LI-2	(1)
SHRUB FIXED RISER SPRAY HEADS														
	RAINBIRD PA-8S-PRS-8	H	7'-8"	30		0.52							'G', LI-2	(2)
	RAINBIRD PA-8S-PRS-10	H	9'-10"	30		0.79							'G', LI-2	(2)
	RAINBIRD PA-8S-PRS-12	T/H	11'-12"	30	0.87	1.30							'G', LI-2	(2)
TURF POP-UP ROTOR HEADS														
	RELOCATED EXISTING ROTOR HEAD	Q/H/F	N/A	50									'H', LI-2	
	HUNTER 1-20-ADS-XX	.75SR/1.5SR	25'	50	0.75	1.50							'H', LI-2	
	HUNTER 1-20-36S-XX	3.0SR	25'	50						3.00			'H', LI-2	
	HUNTER 1-20-ADS-XX	1.5/3.0	34'-38'	50	1.60	2.70							'H', LI-2	
	HUNTER 1-20-36S-XX	6.0	43'	50						5.50			'H', LI-2	
	HUNTER 1-25-ADS-XX	5/10	44'-51'	50	4.80	10.1							'H', LI-2	
	HUNTER 1-25-36S-XX	10	51'	50						10.1			'H', LI-2	
INFIELD ROTOR HEADS														
	HUNTER 1-60-ADS-XX	7/15	52'-60'	50	7.10	13.9							'H', LI-2	
WINE BUBBLERS														
	RAINBIRD 1402 SERIES BUBBLER	F		30							0.50		'I', LI-2	

(1) IN PLANTER AREAS, USE BOTTOM INLET ONLY.
(2) CONTRACTOR IS TO USE CHECK VALVES AS REQUIRED TO STOP LOW HEAD DRAINAGE.

STATION # / CONTROLLER	
FLOW (GPM)	VALVE SIZE
1	1/2"
2	1/2"
3	1/2"
4	1/2"
5	1/2"
6	1/2"
7	1/2"
8	1/2"
9	1/2"
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95	1/2"
96	1/2"
97	1/2"
98	1/2"
99	1/2"
100	1/2"

PIPE SIZING CHART	
3/4" PIPE	3-4 GPM
1" PIPE	4-8 GPM
1 1/4" PIPE	8-15 GPM
1 1/2" PIPE	15-25 GPM
2" PIPE	25-35 GPM
2 1/2" PIPE	35-50 GPM
3" PIPE	50-75 GPM
4" PIPE	75-100 GPM
6" PIPE	100-150 GPM
8" PIPE	150-200 GPM

CLASS 200 PIPE SIZING CHART	
3/4" PIPE	1-9 GPM
1" PIPE	10-15 GPM
1 1/4" PIPE	16-25 GPM
1 1/2" PIPE	26-35 GPM
2" PIPE	36-50 GPM
2 1/2" PIPE	51-75 GPM
3" PIPE	76-120 GPM
4" PIPE	121-190 GPM

SCH 40 PVC SLEEVING CHART		
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	2 1/2"-3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

ADD ALT #1 SPRINKLER LEGEND														
SYMBOL	MANUFACTURER/MODEL #	NOZZLE	RAD.	PSI	FLOW (GPM)							DETAIL	NOTES	
					Q	T	H	TT	TQ	F	Van			
	HUNTER 1-60-ADS-XX	7/13	52'-58'	50	7.10	12.1							'H', LI-2	
	HUNTER 1-60-36S-XX	13	58'	50						12.1			'H', LI-2	



PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
 REGISTERED LANDSCAPE ARCHITECT, RLA 2110
 EXPIRATION DATE 10/31/08 DATE 10/9/06
 SCALE: 1"=20'-0" NORTH:

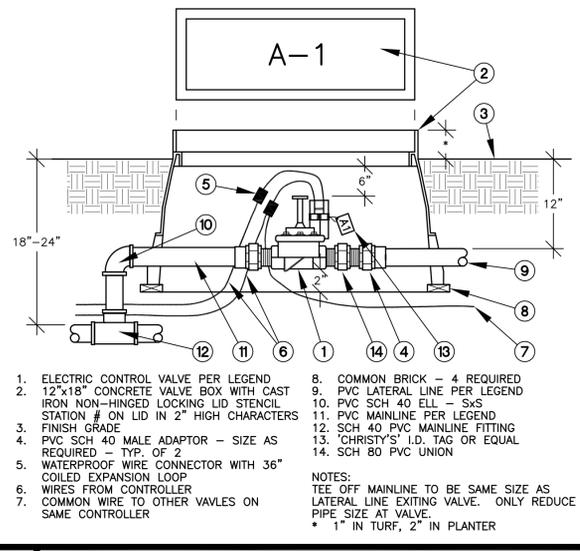
CITY OF RIVERSIDE
 3900 MAIN STREET
 RIVERSIDE, CA
 BENCHMARK
 DATE: 10/9/06

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 DESIGNED BY **KCK** DRAWN BY **KCK** CHECKED BY **TIM**

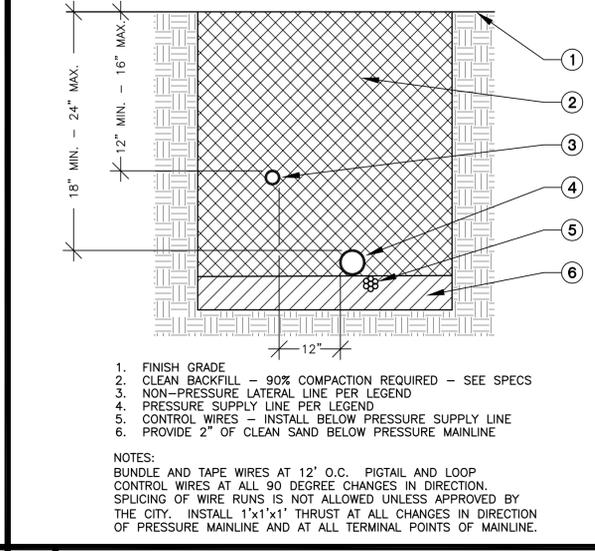
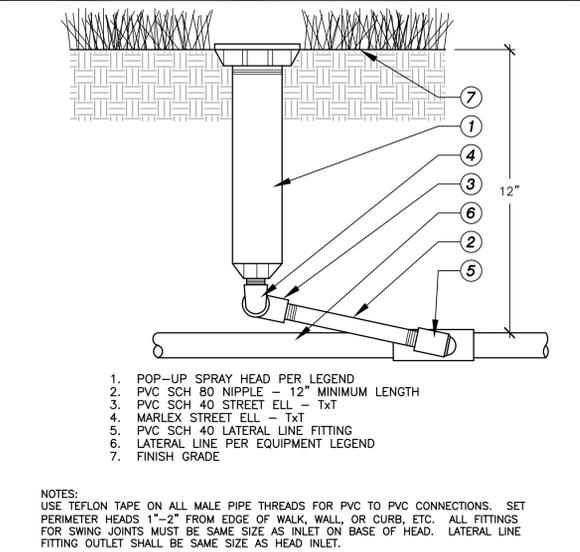
CITY OF RIVERSIDE, CALIFORNIA
 PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT
 APPROVED BY: _____ BY: _____ DATE: _____
 PRINCIPAL LANDSCAPE ARCHITECT
 RECREATION SUPERINTENDENT
 PARKS SUPERINTENDENT
 DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT
 DATE: _____

SHAMEL PARK
 BALLFIELD REALIGNMENT + SPORTS LIGHTING
 RIVERSIDE, CA
 Irrigation Plan

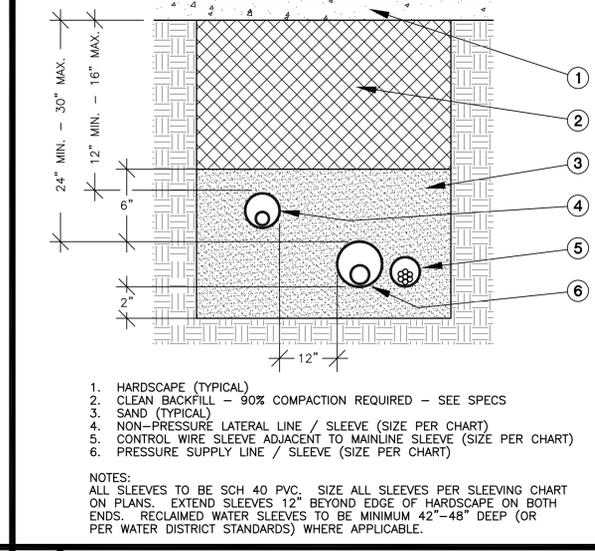
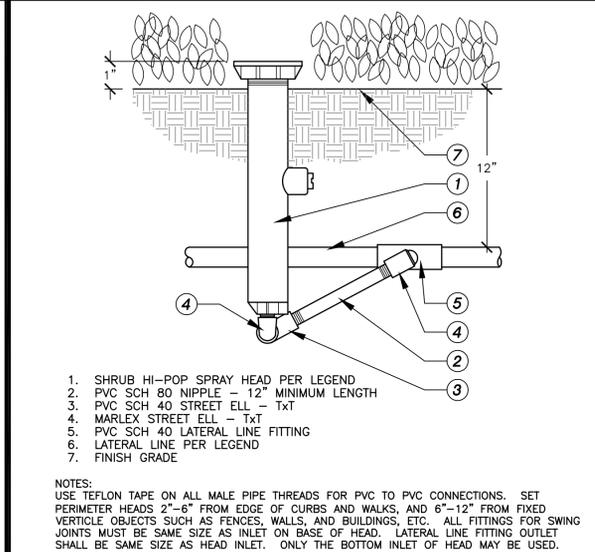
PROJECT NO. 051272
 SHEET **LI-1** OF 19
 FILE NO. PC06-4473



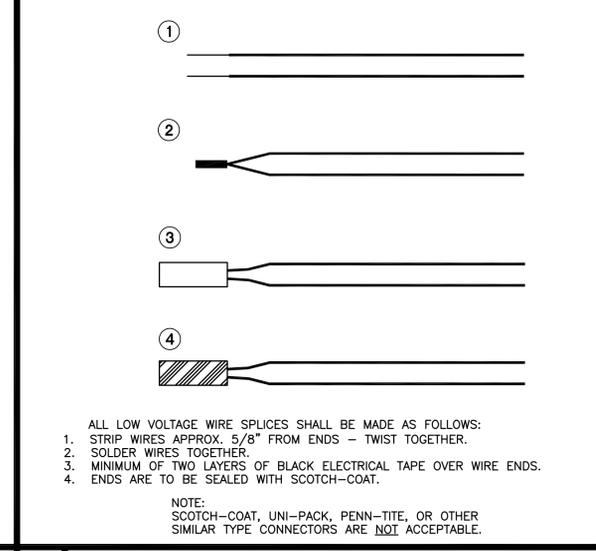
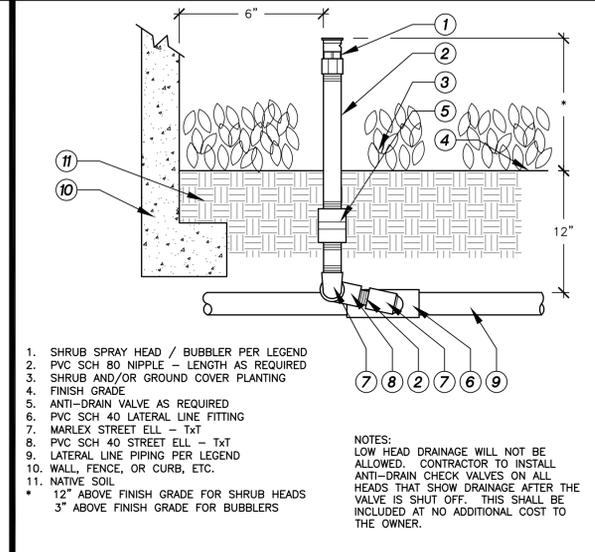
A Remote Control Valve



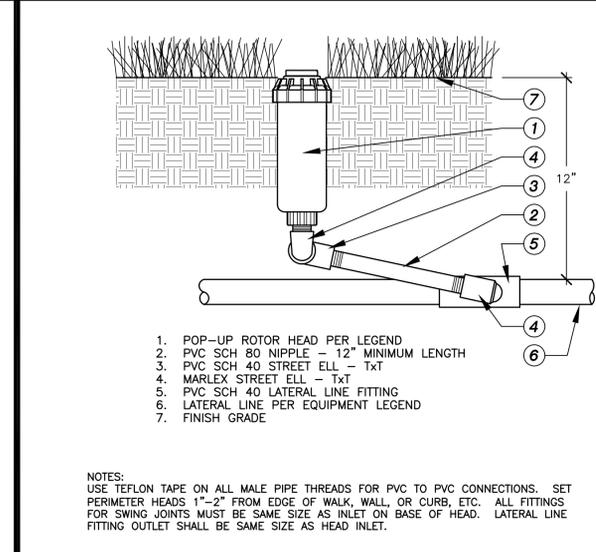
B Trenching



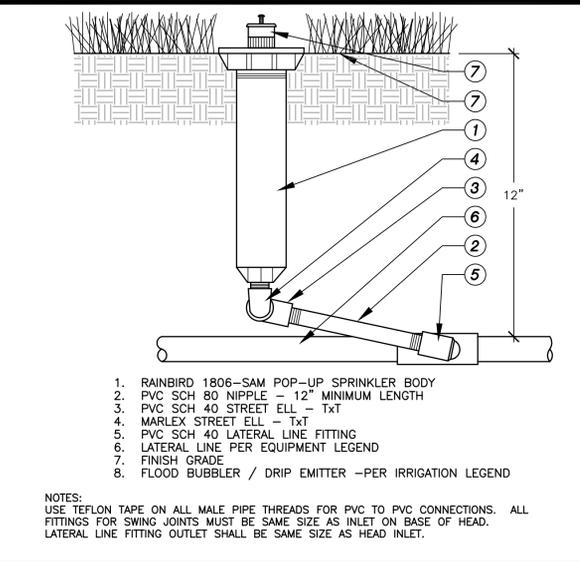
C Sleeving



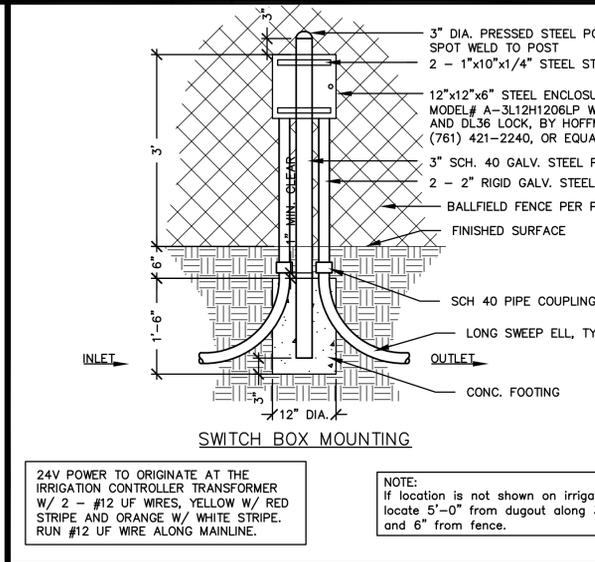
D Wire Connection



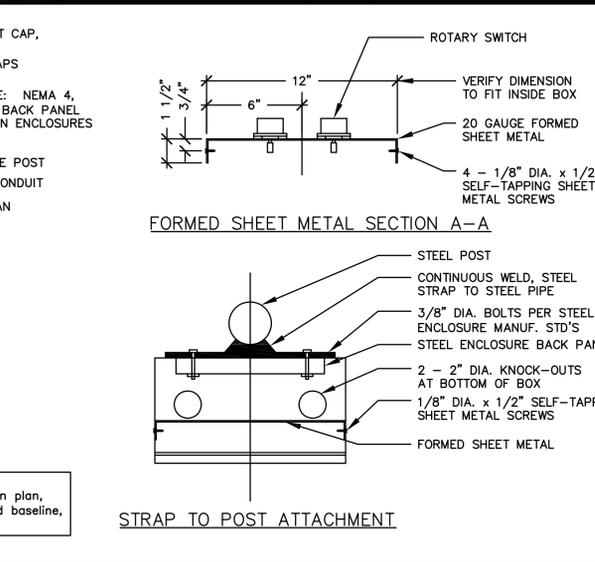
E Pop-up Spray Head



F Hi-Pop Spray Head



G Fixed Riser Spray Head

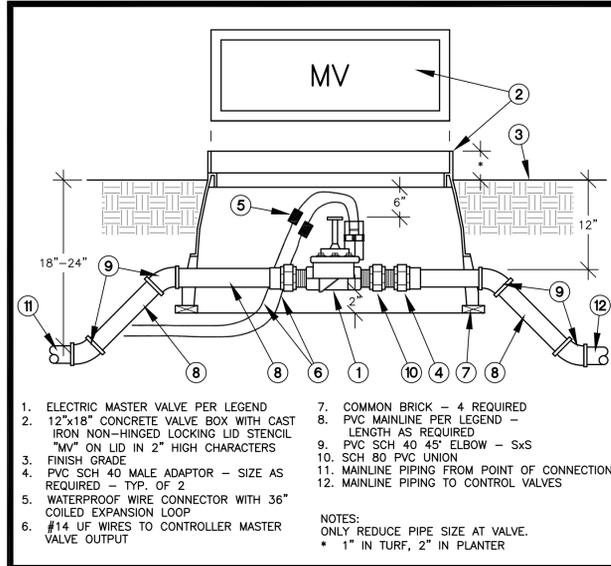


H Turf Rotor Head

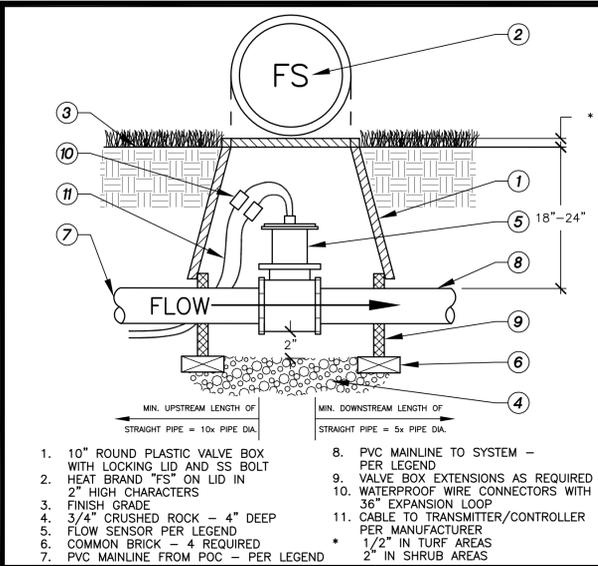
I Pop-up Bubbler Head

J Interruption Switch Box

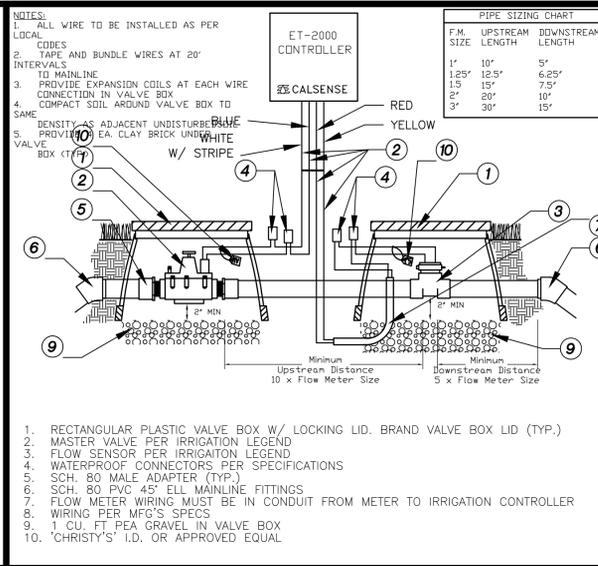
K Interruption Switch



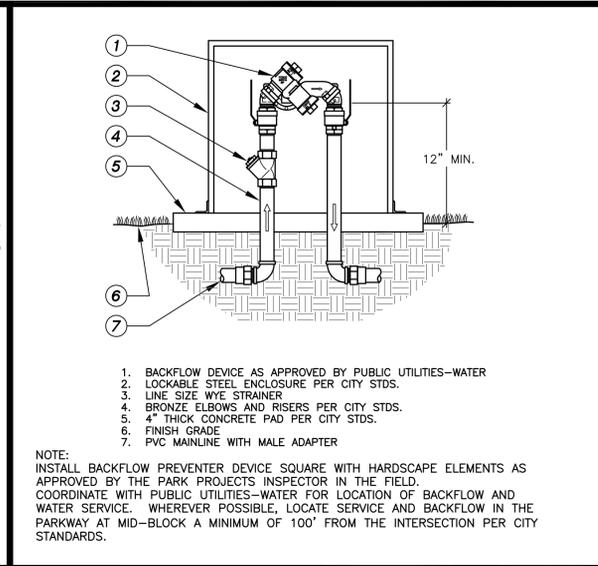
A Master Valve



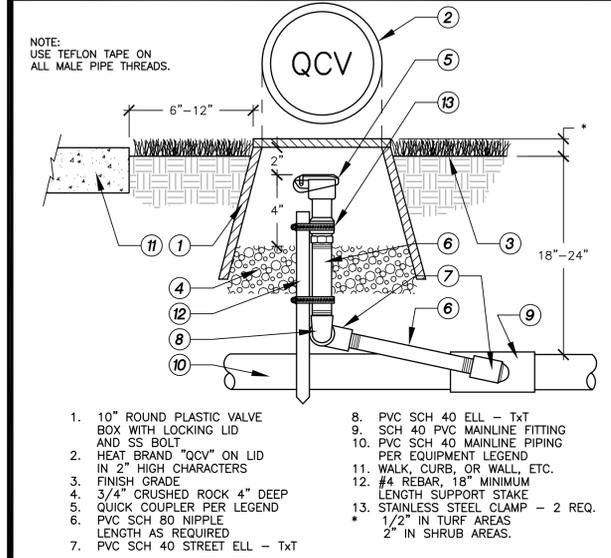
B Flow Sensor



C Master Valve and Flow Meter



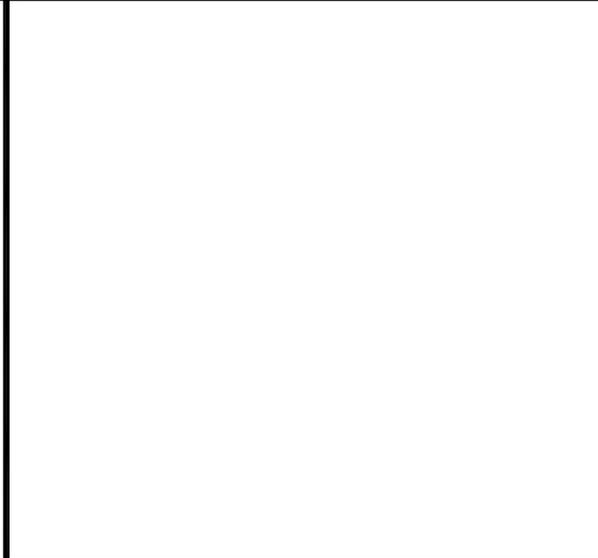
D Backflow Preventer



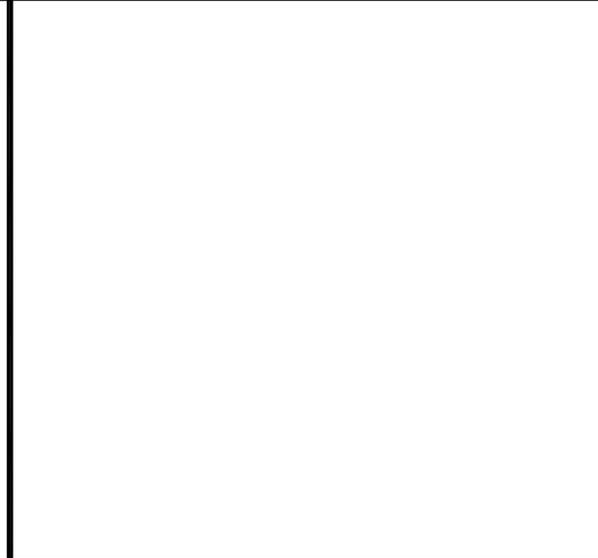
E Quick Coupler Valve



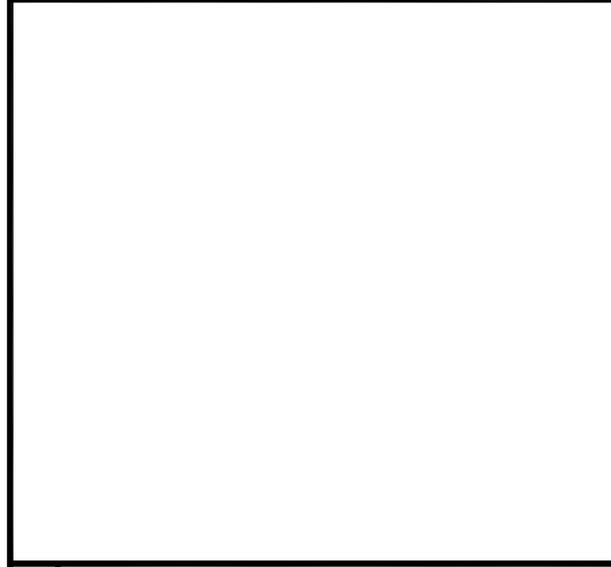
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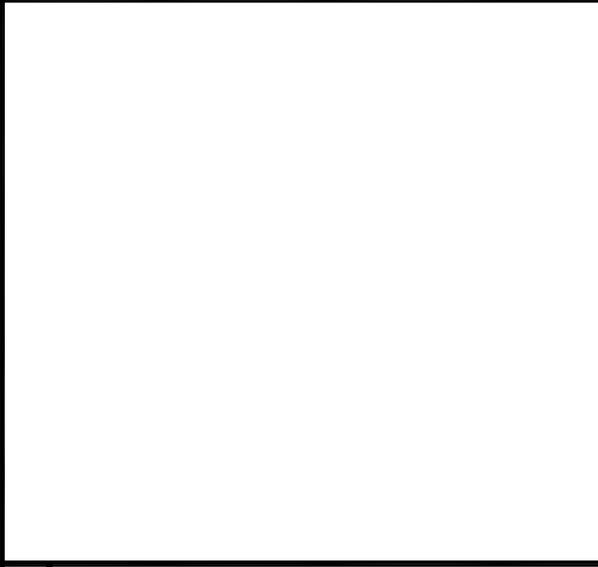
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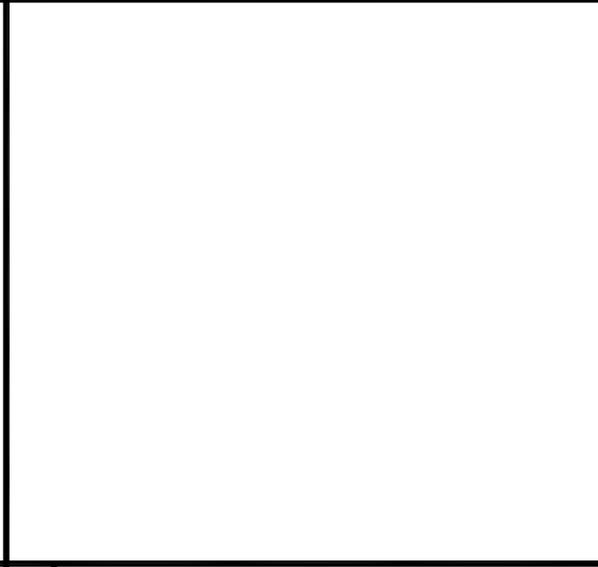
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PREPARED UNDER THE DIRECTION OF
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 EXPIRATION DATE 10/31/08 DATE 10/9/06
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MARK	REVISIONS	APPR.	DATE
DESIGNED BY KCK	DRAWN BY KCK	CHECKED BY TIM	

CITY OF RIVERSIDE, CALIFORNIA
 PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL LANDSCAPE ARCHITECT			
RECREATION SUPERINTENDENT			
PARKS SUPERINTENDENT			

DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT
 DATE

SHAMEL PARK
 BALLFIELD REALIGNMENT + SPORTS LIGHTING
 RIVERSIDE, CA
 Irrigation Details

PROJECT NO. 051272
LI-3
 SHEET 10 OF 19
 FILE NO. FC06-4473



PLANTING LEGEND:

BOTANIC NAME	COMMON NAME	SIZE / SPACING	DETAIL
EXISTING TREE TO REMAIN, PROTECT IN PLACE			
FRAXINUS VELUTINA 'RIO GRANDE'	FAN-TEX ASH	24" BOX	'A' & 'B', LP-2
X CHITALPA TASHKENTENSIS 'PINK DAWN'	PINK DAWN CHITALPA	24" BOX	'A' & 'B', LP-2
BOUGAINVILLEA 'SAN DIEGO RED'	BOUGAINVILLEA	5 GAL	'C', LP-2
HEMEROCALLIS HYBRIDS 'ORANGE'	DAYLILY	1 GAL	'C', LP-2
XYLOSMA CONGESTUM 'COMPACTA'	SHINY XYLOSMA	5 GAL	'C', LP-2
DISTICTIS BUCCINATORIA	BLOOD RED TRUMPET VINE	5 GAL	'C' & 'D', LP-2
MACFADYENA UNGUIS-CATI	CAT'S CLAW VINE	5 GAL	'C' & 'D', LP-2

GROUNDCOVERS	COMMON NAME	SPACING	DETAIL
HEDERA HELIX	ENGLISH IVY	FLATS @ 3' O.C.	'E', LP-2
TURF RENOVATION AREA			'G', LP-2

CONTRACTOR SHALL FILL ANY LOW SPOTS OR DEPRESSIONS WITH A CLEAN SANDY LOAM SOIL AND DRAG AND LEVEL EXISTING GRADE WITH AN 8'X4' WEIGHTED PANEL OF CHAINLINK FENCE. FIELD TO BE LEVELED TO FINISHED GRADE SHOWN ON GRADING PLAN.

AFTER LEVELING TURF AREA, THE CONTRACTOR SHALL ROLL ENTIRE RENOVATION AREA WITH A STEEL TINE AERATOR PENETRATING TO A MINIMUM DEPTH OF 2 1/2". DRAG AND DIPERSE CORES WITH AN 8'X4' WEIGHTED PANEL OF CHAINLINK FENCE.

FERTILIZE FINAL TURF AREA WITH ORGANIC HUMUS MIX 2 C.Y. PER 1000 S.F. DISTRIBUTED BY: EARTHWORKS SOILD AMENDMENTS, INC. (951) 782-2060, OR APPROVED EQUAL. APPLY HYDROSEED IN ALL BARE AREAS DESIGNATED FOR TURF TO PROVIDE 100% FULL TURF COVERAGE IN ALL AREAS SHOWN AS TURF

EXISTING TURF TO REMAIN, PROTECT IN PLACE. CONTRACTOR TO REPAIR OR REPLACE ANY AREAS DAMAGED DURING CONSTRUCTION

ALL TREES WITHIN 5' OF HARDSCAPE TO RECEIVE ROOTBARRIER
SEE DETAIL 'F', SHEET LP-2

NOTE: TURF RENOVATION PROCESS TO OCCUR AFTER NEW IRRIGATION IS INSTALLED. CONTRACTOR IS RESPONSIBLE TO PROTECT ALL IRRIGATION EQUIPMENT FROM DAMAGE DURING THE TURF RENOVATION.

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BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

COMWORKS
DESIGN GROUP
4649 Brockton Avenue
Riverside, CA 92501
(951) 369-0700
Fax: (951) 369-4039
www.comworksdg.com

REGISTERED LANDSCAPE ARCHITECT
TIMOTHY I. MALONEY
10/31/08
10/9/06
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
REGISTERED LANDSCAPE ARCHITECT, RLA 2110
EXPIRATION DATE 10/31/08 DATE 10/9/06
SCALE: 1"=20'-0" NORTH:
DATE: 10/9/06

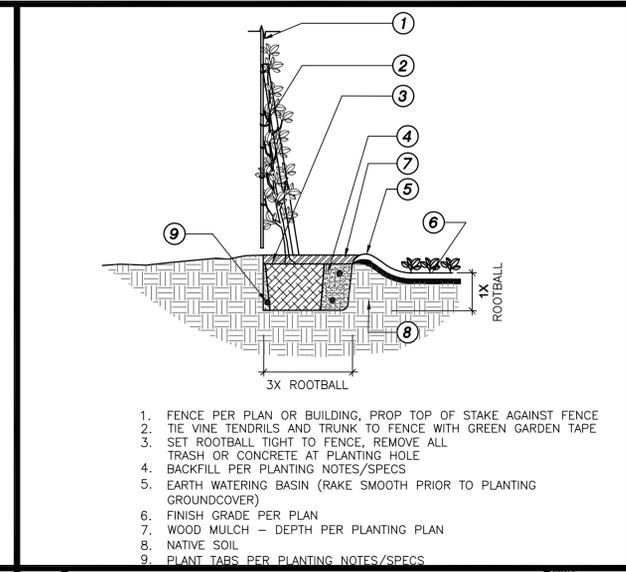
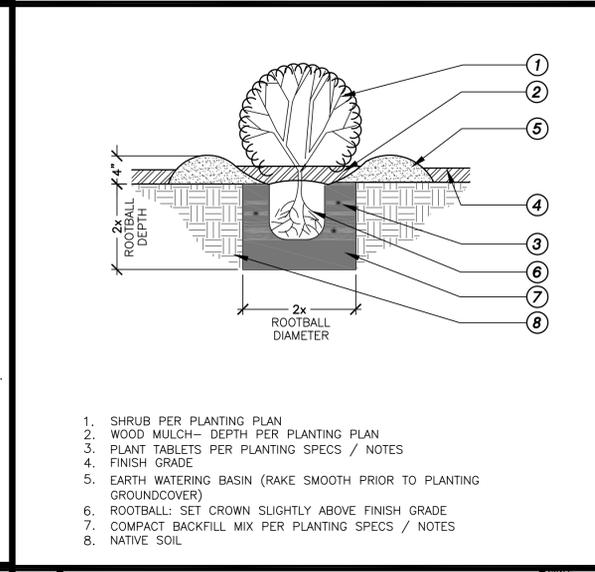
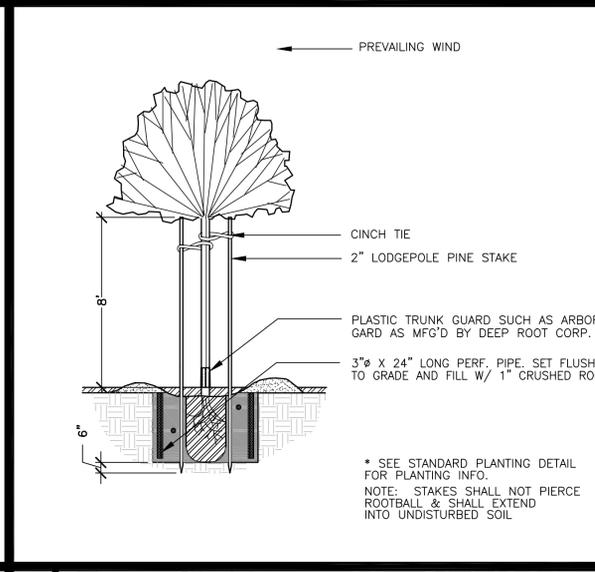
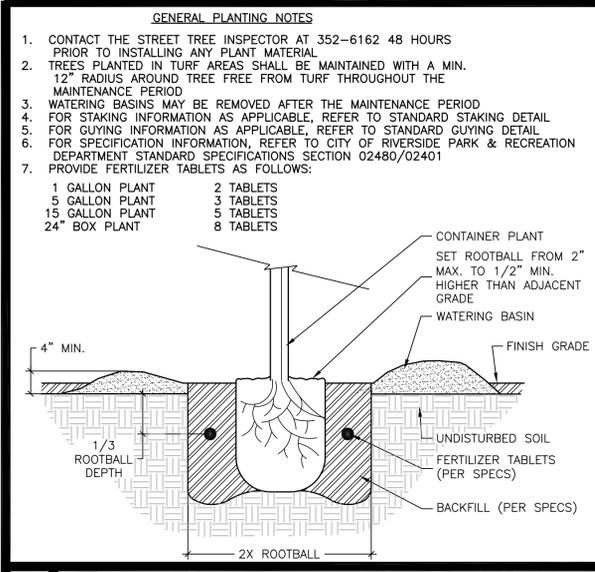
CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA
BENCHMARK
DESIGNED BY **KCK** DRAWN BY **KCK** CHECKED BY **TIM**

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT
APPROVED BY _____ BY _____ DATE _____
PRINCIPAL LANDSCAPE ARCHITECT
RECREATION SUPERINTENDENT
PARKS SUPERINTENDENT
DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT
DATE _____

SHAMEL PARK
BALLFIELD REALIGNMENT + SPORTS LIGHTING
RIVERSIDE, CA
Planting Plan

PROJECT NO. 051272
LP-1
SHEET 11 OF 19
FILE NO. PC06-4473

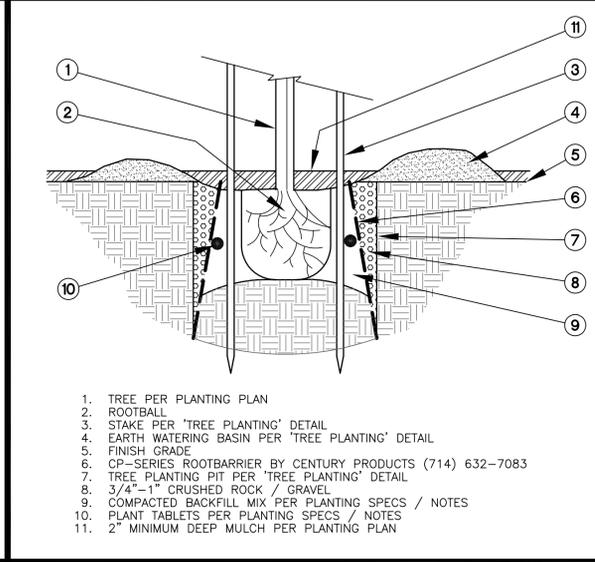
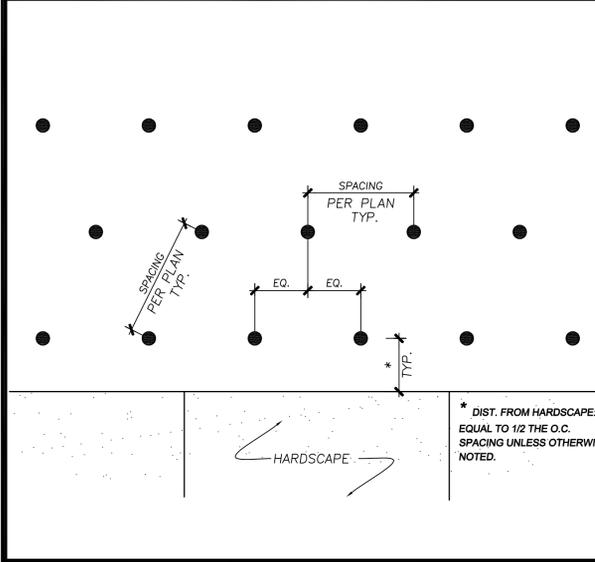


A Tree Planting - City Std 1001

B Tree Staking - City Std 1002

C Shrub Planting

D Vine On Fence Planting



FERTILIZER PROGRAM:

THREE (3) FERTILIZER APPLICATIONS ARE TO BE APPLIED TO ALL PLANTING AREAS AT THIRTY (30) DAY INTERVALS USING THE FOLLOWING FORMULA:

5 LBS. 16-16-16 COMMERCIAL FERTILIZER PER 1000 SQ. FT.

AFTER ALL SITE GRADING HAS BEEN COMPLETED, THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, AN AGRONOMIC SOILS TEST. THE TEST SHALL BE PERFORMED BY AN APPROVED SOIL LAB AND SHALL INCLUDE ALL OF THE ABOVE INFORMATION. THE RECOMMENDATIONS OF THIS REPORT SHALL TAKE PRECEDENCE OVER THE ABOVE QUANTITIES ONLY WHEN THEY EXCEED THE SPECIFIED MINIMUMS.

SOIL PREPARATION / BACKFILL NOTE:

TO ALL NEW PLANTING AREAS (SHRUB AND GROUND COVER), ROTOTILL THE FOLLOWING AMENDMENTS:

'NITROMULCH' SOIL AMENDMENT - 3 CU. YDS. PER 1000 SQ. FT.
16-16-16 COMMERCIAL FERTILIZER - 12 LBS. PER 1000 SQ. FT.

BACKFILL MIX FOR TREES, SHRUBS, AND VINES SHALL BE AS FOLLOWS:

6 PARTS BY VOLUME ON-SITE SOIL
4 PARTS BY VOLUME ORGANIC AMENDMENT AS ABOVE
1 LB. 16-16-16 COMMERCIAL FERTILIZER PER CU. YD. OF MIX
2 LBS. IRON SULFATE PER CU. YD. OF MIX

'NITROMULCH' SOIL AMENDMENT AVAILABLE FROM 'KELLOG SUPPLY, INC.' (800) 232-2322

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'NITROMULCH' SOIL AMENDMENT AVAILABLE FROM 'KELLOG SUPPLY, INC.' (800) 232-2322

E Groundcover Spacing

F Root Barrier

G Soil Prep / Fertilizer

H

PLANTING NOTES:

- GENERAL - ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CITY AND COUNTY CODES AND THESE PLANS.
 - THE CONTRACTOR SHALL CAREFULLY INSPECT THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF ANY WORK UNDER THIS CONTRACT.
 - THE CONTRACTOR SHALL CARRY ALL WORKER'S COMPENSATION, PUBLIC LIABILITY, AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY OWNER.
 - THE CONTRACTOR SHALL APPLY FOR ALL PERMITS AND PAY FOR SAME.
 - ALL IRRIGATION WORK SHALL HAVE BEEN INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING ANY GROUND COVER PLANTING WORK.
 - THE OWNER'S SUPERINTENDENT AND THE LANDSCAPE ARCHITECT WILL INSPECT THE PLANTING WORK PRIOR TO STARTING WORK. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT AND COORDINATE ALL INSPECTIONS.
 - THE QUALITY OF WORKMANSHIP AND MATERIALS SHALL BE OF THE HIGHEST STANDARDS. COOPERATION AND FLEXIBILITY IS EXPECTED OF THE CONTRACTOR TOWARD WORKING WITH THE OWNER/LANDSCAPE ARCHITECT IN PRODUCING THE BEST POSSIBLE PRODUCT.
 - UPON COMPLETION OF EACH PHASE OF WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE SITE OF ALL ACCUMULATED RUBBISH, DEBRIS, AND OTHER EXTRANEOUS MATERIAL.
- SCOPE OF WORK - CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, TRANSPORTATION, EQUIPMENT AND PROPERTY TO COMPLETE THE LANDSCAPING OF THE PLANTING AREAS AS INDICATED ON, OR REASONABLY IMPLIED BY THE DRAWINGS AND OR NOTES.
 - INCLUDED AS A PART OF THE WORK, BUT NOT NECESSARILY LIMITED BY IT ARE THE FOLLOWING ITEMS: FINE GRADING OF ALL PLANTING AREAS; PREPARATION OF ALL PLANTING AND TREE HOLES; FURNISHING AND INSTALLATION OF ALL PLANT MATERIALS; PROVIDING MAINTENANCE THROUGHOUT THE PROJECT PERIOD; PROVIDING PLANT ESTABLISHMENT WORK THROUGHOUT THE SPECIFIED PERIOD; CLEAN-UP AND WEEDING OF ALL LANDSCAPE AREAS; GUARANTEE OF ALL PLANT MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR.
- THE CONTRACTOR SHALL REMOVE ALL WEEDS, ROCKS OVER 2" DIAMETER, DEBRIS AND OTHER EXTRANEOUS MATERIAL FROM THE JOB SITE IN A LEGAL MANNER PRIOR TO PROCEEDING WITH ANY WORK UNDER THIS CONTRACT.
- THE OWNER SHALL PROVIDE ROUGH GRADE TO WITHIN 1/10th OF 1 FOOT OF FINISH GRADE, INCLUDING ANY MINOR ADJUSTMENTS TO EARTH BERM AND SLOPE SHAPES. PROVIDE FINISH GRADE IN PLANTING AREAS TO 1% MINIMUM FLOW. FINISH GRADES SHALL BE 2" BELOW ADJACENT WALKS, CURBS, DRIVEWAYS, ETC. IN GROUND COVER AREAS AND 1" BELOW IN TURF.

- ALL TREES AND SHRUBS SHALL BE PLANTED PER THESE NOTES AND AS DETAILED. ALL PLANT MATERIAL SHALL BE OF THE HIGHEST QUALITY AND LARGEST REASONABLE SIZE AVAILABLE FOR THE SPECIFIED CONTAINER SIZE (WITHOUT BEING ROOT BOUND). SHRUB MATERIALS SHALL BE VIGOROUSLY GROWING, HEALTHY PLANT MATERIAL, FULL AND BUSHY; OF HINES WHOLESALE NURSERY / MONROVIA NURSERY COMPANY QUALITY OR EQUAL. THE LANDSCAPE ARCHITECT WILL APPROVE ALL PLANT MATERIAL WHEN SPOTTED FOR PLANTING, AND WILL NOT HESITATE TO REJECT ANY MATERIAL OF QUESTIONABLE QUALITY, OR OF LESS THAN THE LARGEST REASONABLE SIZE MATERIAL AVAILABLE. ALL SPECIMEN MATERIAL TAGGED BY THE LANDSCAPE ARCHITECT FOR THIS PROJECT WILL BE AVAILABLE AT VALLEY CREST NURSERY, SEA TREE NURSERY, OR OTHER SOURCE EQUAL IN QUALITY. CONTRACTOR SHALL PURCHASE TAGGED MATERIAL, ARRANGE DELIVERY, PAY FOR SAME, AND INSTALL PER PLAN.
- THE LANDSCAPE ARCHITECT SHALL APPROVE THE LOCATION OF ALL OF THE ONE GALLON, FIVE GALLON, AND FIFTEEN GALLON PLANT MATERIAL AS APPROXIMATELY SPOTTED IN THE FIELD BY THE CONTRACTOR. ALL BOXED MATERIAL SHALL BE STAKED FOR LOCATION APPROVAL PRIOR TO PLANT PIT EXCAVATION. PRIOR TO PLANTING, THE OWNER'S REPRESENTATIVE WILL SELECT THE BEST SIDE AND FACE ALL SPECIMEN TREES.
- TREE TIES SHALL BE "TWIST-BRACE" AVAILABLE FROM "V.I.T. COMPANY" OF ESCONDIDO, CA (619) 480-6702. INSTALL PER MANUFACTURER'S SPECIFICATIONS. USE WOOD SCREWS ONLY FOR WOOD STAKES, USE THRU BOLT FOR METAL STAKES.
- ALL GROUND COVER AS NOTED IN THE LEGEND SHALL BE ROOTED TIP CUTTINGS FROM FLATS OR LINERS UNLESS OTHERWISE SPECIFIED, AND SHALL BE PLANTED IN STAGGERED ROWS CONTINUOUSLY UNDER ALL TREES AND SHRUBS IN THE AREAS AS DESIGNATED ON THE PLANS AND AT THE SPACING INDICATED IN THE LEGEND. ALL GROUND COVER AND SHRUB AREAS SHALL HAVE A MINIMUM DEPTH OF 3" SHREDDED WALK ON BARK MULCH, 1" IN DIAMETER.
- TO ALL PLANTING AREAS AND PRIOR TO IRRIGATION SYSTEM INSTALLATION, CROSS RIP OR OTHERWISE TILL 12" DEEP. AFTER CROSS RIPPING, ROTO-TILL SOIL PREP AMENDMENTS 6" DEEP (SEE SOIL PREP / BACKFILL NOTE).
- FOR BACKFILL AROUND TREES AND SHRUBS, USE THE FORMULA AS INDICATED IN THE SOIL PREP / BACKFILL NOTE. MIXING SHALL BE DONE AT ONE LOCATION.
- WEED ABATEMENT - TO ALL PLANTING AREAS, AFTER EARTHWORK, INSTALLATION OF IRRIGATION SYSTEM AND SOIL PREPARATION, THE FOLLOWING WEED ABATEMENT WORK SHALL BE DONE:
 - KEEP AREAS MOIST BY REGULAR IRRIGATIONS FOR A PERIOD OF TWO WEEKS (MINIMUM) TO GERMINATE EXISTING WEED SEEDS.
 - KILL WEEDS WITH CONTACT WEED KILLER PER LICENSED HERBICIDE AGENCY SPECIFICATIONS. AFTER COMPLETE WEED KILL, REMOVE WEED RESIDUE AND TOP GROWTH.
- PRE-EMERGENT PROGRAM - PRIOR TO INSTALLATION OF GROUND COVER, CONTRACTOR SHALL INSTALL A PER-EMERGENT HERBICIDE, EPITAM OR EQUAL, TO ALL PROPOSED GROUND COVER AREAS PER MANUFACTURER'S RECOMMENDATIONS.
- MAINTENANCE - THE CONTRACTOR SHALL MAINTAIN ALL PLANTED AREAS THROUGHOUT THE CONTRACT PERIOD. MAINTENANCE SHALL CONSIST OF PROPER WATERING, FERTILIZATION, WEEDING, AND GENERAL CLEAN-UP. PLANTS SHALL BE KEPT IN A HEALTHY GROWING CONDITION.
- PLANT ESTABLISHMENT PERIOD - THE PLANT ESTABLISHMENT PERIOD SHALL COMMENCE UPON THE OWNER'S AND THE LANDSCAPE ARCHITECTS WRITTEN APPROVAL OF ALL PHASES OF PLANTING INSTALLATION AND SHALL BE FOR NINETY (90) CONTINUOUS CALENDAR DAYS. PLANT ESTABLISHMENT WORK SHALL INCLUDE THREE (3) FERTILIZER APPLICATIONS TO ALL PLANTED AREAS DURING THIRTY (30) DAY INTERVALS DURING THE PLANT ESTABLISHMENT PERIOD (REFER TO FERTILIZER PROGRAM NOTE FOR TYPE AND APPLICATION RATES).
- PLANT ESTABLISHMENT PROCEDURES - THE GENERAL CARE AND MAINTENANCE OF ALL AREAS SHALL CONSIST OF PROPER WATERING, FERTILIZATION, WEEDING, CLEAN-UP, AND AS FOLLOWS:
 - CULTIVATE AND WEED AT NOT LESS THAN TEN (10) WORKING DAY INTERVALS.
 - THREE (3) FERTILIZER APPLICATIONS PER NOTE ABOVE WITH FERTILIZER AT THE RATE AND FORMULA AS INDICATED IN THE SOIL PREP/BACKFILL NOTE.
 - CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEMS IN A LIKE NEW, OPERATING CONDITION, ADJUSTING HEAD HEIGHTS, THROW AND SPRAY ARCS AS NECESSARY. THE CONTRACTOR IS RESPONSIBLE FOR PROPER WATERING OF ALL PLANTED AREAS, AND SHALL REPLACE ANY MATERIAL DAMAGED DUE TO IMPROPER MOISTURE.
 - ANY CONCENTRATED DEVELOPMENT OF WEED GROWTH THAT MAY APPEAR IN PLANTING AREAS DURING PLANT ESTABLISHMENT PERIOD SHALL BE REMOVED AT THIRTY (30) DAY INTERVALS. THE CONTRACTOR MAY ELECT TO REMOVE SUCH CONCENTRATIONS OF WEEDS MANUALLY OR BY AN APPROVED HERBICIDE PROGRAM.
 - DURING THE COURSE OF THE MAINTENANCE WORK, THE CONTRACTOR SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE AND SHALL KEEP THE PREMISES IN A NEAT AND CLEAN CONDITION AT ALL TIMES.
 - DURING THE PLANT ESTABLISHMENT PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE PROTECTION FOR ALL PLANTING AREAS. ANY DAMAGED AREAS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

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I Planting Notes

J



PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
REGISTERED LANDSCAPE ARCHITECT, RLA 2110
EXPIRATION DATE 10/31/08 DATE 10/9/06

SCALE: N.T.S. NORTH: BENCHMARK: -

DATE: 10/9/06

CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA

MARK	REVISIONS	APPR.	DATE
DESIGNED BY	KCK	DRAWN BY	KCK
CHECKED BY	TIM		

CITY OF RIVERSIDE, CALIFORNIA
PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT

APPROVED BY: _____ BY: _____ DATE: _____

PRINCIPAL LANDSCAPE ARCHITECT: _____

RECREATION SUPERINTENDENT: _____

PARKS SUPERINTENDENT: _____

DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT: _____ DATE: _____

SHAMEL PARK
BALLFIELD REALIGNMENT + SPORTS LIGHTING

RIVERSIDE, CA

Planting Details

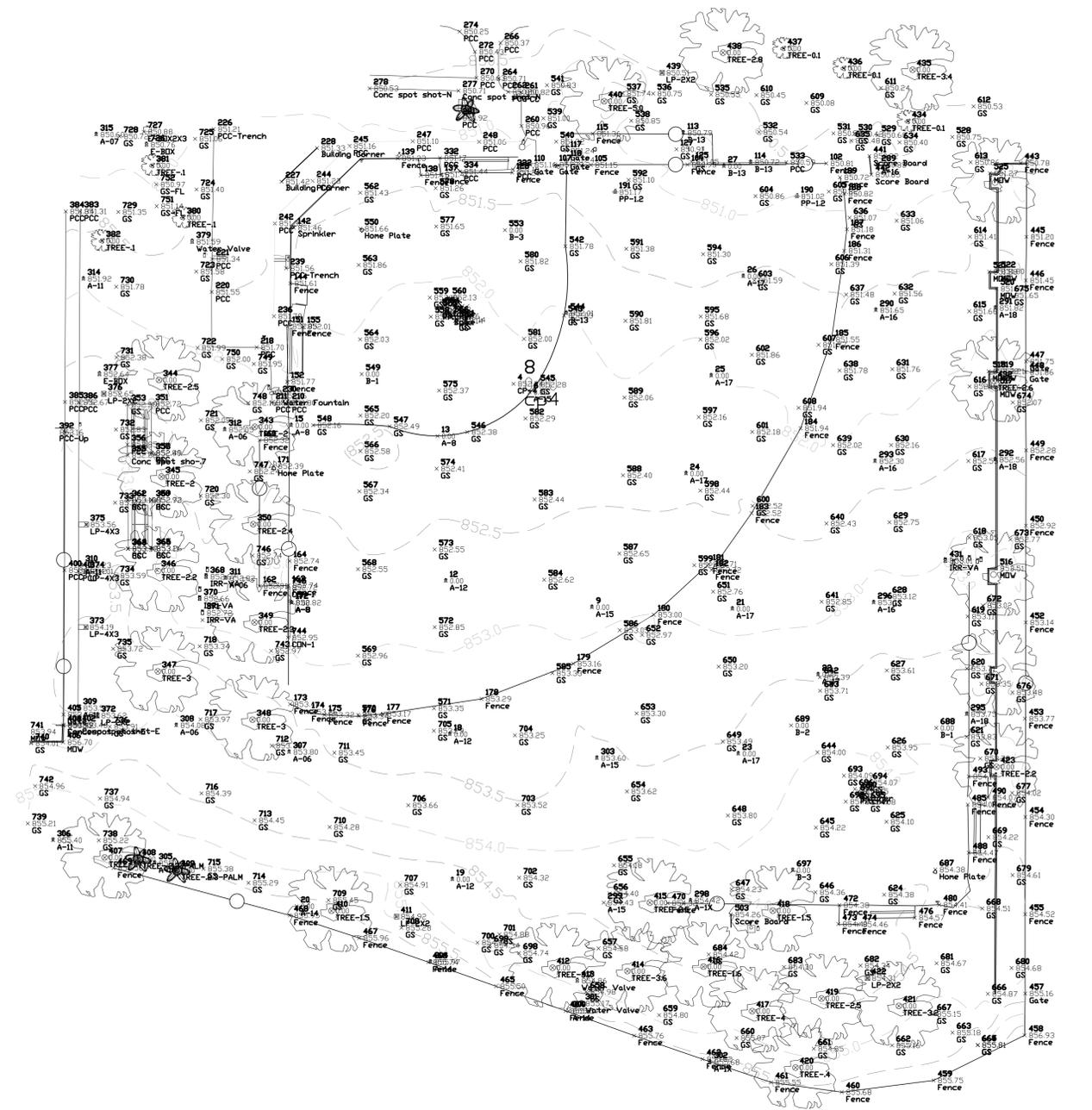
PROJECT NO. 051272

LP-2

SHEET 12 OF 19

FILE NO. PC06-4473

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LEGEND

- Abbreviations -
- EB - Electrical Box
- EV - Electrical Vault
- GS - Ground Shot
- ICV - Irrigation Control Valve
- LP - Light Post
- RB - Rain Bird Sprinkler Head
- WV - Water Valve
- WB - Water Box
- SPKV - Sprinkler Valve
- MOW - Mow Strip
- Linetypes -
- Chainlink Fence
- Symbols -
- Fire Hydrant
- Tree (species varies)
- Palm Tree
- Light Post

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WORKS DESIGN GROUP
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 Riverside, CA 92501
 (951) 369-0700
 Fax: (951) 369-4039
 www.comworksdg.com



PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
 REGISTERED LANDSCAPE ARCHITECT, RLA 2110
 EXPIRATION DATE 10/31/06 DATE 8/3/06
 SCALE: 1"=20'-0" NORTH:

CITY OF RIVERSIDE
 3900 MAIN STREET
 RIVERSIDE, CA
 BENCHMARK DESCRIPTION: P.K. NAIL AND CITY ENGINEER TAG IN THE SOUTHERLY WING OF A CATCH BASIN ON THE WEST SIDE OF BROCKTON AVENUE, 79 FEET SOUTHERLY OF ARLINGTON AVENUE. (BM TRANSFER FROM NAVAL)

MARK	REVISIONS	APPR.	DATE
DESIGNED BY	-	DRAWN BY	-
CHECKED BY	TIM		

CITY OF RIVERSIDE, CALIFORNIA
 PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT
 APPROVED BY: _____ BY: _____ DATE: _____
 PRINCIPAL LANDSCAPE ARCHITECT
 RECREATION SUPERINTENDENT
 PARKS SUPERINTENDENT
 DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT
 DATE: _____

SHAMEL PARK
 BALLFIELD REALIGNMENT + SPORTS LIGHTING
 RIVERSIDE, CA
 Existing Survey

PROJECT NO. 051272
LS-1
 SHEET 13 OF 19
 FILE NO. PC06-4473

ELECTRICAL GENERAL NOTES

- THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS, BUS DUCT, WIREWAY, ETC. SHALL BE IN ACCORDANCE WITH THE MASON INDUSTRIES "SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED PIPING, DUCTWORK AND ELECTRICAL SYSTEMS", APPROVED BY OSHPD AUGUST 2002, PRE-APPROVAL No. OPA-0349.
- ALL ELECTRICAL PREFABRICATED EQUIPMENT SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PORTIONS, ELEMENTS, SUB-ASSEMBLIES AND/OR PARTS OF SAID EQUIPMENT, AND THE EQUIPMENT AS A WHOLE INCLUDING ITS ATTACHMENTS, WILL RESIST A LOAD WHICH EXCEEDS THE FORCE LEVEL USED TO RESTRAIN AND ANCHOR THE EQUIPMENT TO THE SUPPORTING STRUCTURE.
- ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:
 AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
 INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
 NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
 AMERICAN STANDARD ASSOCIATION (ASA)
 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
 AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
 CALIFORNIA ELECTRICAL CODE (CEC) - LATEST EDITION
 CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR)
 INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
 ALL LOCAL CODES HAVING JURISDICTION.
 WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.
- THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ARCHITECT, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER. FAILURE TO KEEP RECORD DRAWINGS UP-TO-DATE SHALL CONSTITUTE CAUSE FOR WITHHOLDING OF PROGRESS PAYMENTS.
- IN SOME INSTANCES, IT MAY BE NECESSARY TO DEFER WORK IN CERTAIN AREAS AND LOCATIONS UNTIL SUCH TIME AS EXISTING FACILITIES CAN BE TEMPORARILY OR PERMANENTLY REARRANGED BY THE OWNER. THEREFORE, WHENEVER IT BECOMES NECESSARY FOR THE CONTRACTOR TO PERFORM WORK UNDER THIS CONTRACT IN EXISTING AREAS IN WHICH THE OWNER'S WORK IS BEING PERFORMED, THE CONTRACTOR SHALL ADVISE THE ARCHITECT AND THE OWNER RELATIVE TO THIS REQUIREMENT AND SHALL FOLLOW CLOSELY THE DIRECTIVE ISSUED BY THE ARCHITECT INSOFAR AS TIME AND PROCEDURE ARE CONCERNED. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL PREMIUM TIME TO WHICH HE MAY BE SUBJECTED FOR PERFORMING WORK IN SUCH PROCEDURE AND AT SUCH TIMES AS MAY BE NECESSARY TO CAUSE THE LEAST INTERFERENCE WITH THE OPERATIONS OF THE OWNER.
- SHOP DRAWINGS SHALL BE SUBMITTED WITHIN 10 DAYS AFTER AWARD OF THE CONTRACT. THE CONTRACTOR SHALL SUBMIT 8 COPIES OF A COMPLETE LIST OF MATERIALS AND EQUIPMENT INCLUDING MANUFACTURER AND MODEL NUMBER PROPOSED FOR THE JOB. SHOP DRAWINGS SHALL INCLUDE JOB DESCRIPTION, ARCHITECT AND ENGINEER IDENTIFICATION, AND ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS AND MANUFACTURER'S BROCHURES. SHOP DRAWINGS SHALL BE SUBMITTED FOR ITEMS LISTED IN SPECIFICATIONS. PARTIAL, INCOMPLETE OR UNBOUND SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
- AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
- THE CONTRACTOR SHALL FURNISH A 1-YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND TO COORDINATE WITH ALL TRADES.

- ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
- COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.
- COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.
- EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATION OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.
- CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS WITH LIQUID-TIGHT FLEXIBLE STEEL CONDUIT. PROVIDE A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT RUNS. MAXIMUM LENGTH SHALL BE SIX FEET UNLESS OTHERWISE NOTED.
- ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
- CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED IN WALLS, OR BELOW SLAB ON GRADE UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING, TRENCHING, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO PERFORM HIS WORK. ATTENTION IS CALLED TO THE FACT THAT THERE ARE EXISTING UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN TRENCHING FOR HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGES CAUSED BY HIM OR HIS WORK.
- WHenever a discrepancy in quantity or size of conduit, wire, equipment devices, circuit breakers, ground fault protection systems, etc. (all materials), arises on the drawings or specifications, the contractor shall be responsible for providing and installing all material and services required by the strictest conditions noted on the drawings or in the specifications to ensure complete and operable systems as required by the owner and architect/engineer.
- UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED.
 STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS, OR AREA SEPARATION UNLESS THEY:
 STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.
 FIRESTOPPING MATERIAL: MPP-1 MOLDABLE PUTTY PADS 3M

CONTRACTOR PRODUCTS
 MINNEAPOLIS, MN 3M TEST
 REPORT NO.
 1167 DATED AUGUST 21, 1987
 FSP FIRESTOP PUTTY PADS HEVI-DUTY
 NELSON PRODUCTS TULSA, OK
 FLAMESAFE FSP 1077 FIRESTOP PADS
 INTERNATIONAL PROTECTIVE
 COATINGS OAKHURST, NJ
 STEEL UTILITY BOXES WHICH EXCEED
 100 SQUARE INCHES IN AREA SHALL BE
 PROTECTED BY ENCASEMENT.

UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD OF FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH. IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED

ELECTRICAL SYMBOL LIST

- CONDUIT RUN, CONCEALED IN CEILING, WALLS OR UNDER FLOORS.
- CONDUIT RUN EXPOSED.
- CONDUIT RUN UNDERGROUND.
- CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.
- AIC "AMPERES INTERRUPTING CAPACITY"
- RMS "ROOT MEAN SQUARED"
- KW "KILOWATT"
- KVA "KILOVOLT - AMPERES"
- V "VOLTS"
- A "AMPS"
- Ø PHASE
- WP WEATHERPROOF, NEMA 3R
- KWH KILOWATT HOURS
- AFB ABOVE FINISHED FLOOR
- O.C. "ON CENTER"
- UNO UNLESS NOTED OTHERWISE
- VEL VERIFY EXACT LOCATION
- C.O. "CONDUIT ONLY". PROVIDE PULL ROPE FOR ALL EMPTY CONDUIT AS REQUIRED.
- C. "CONDUIT", WITH CONDUCTORS AS REQUIRED BY DRAWINGS OR SPECIFICATIONS.
- 3P 3 POLE
 CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #12 AND ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER C.E.C. TABLE 250-95, BUT NOT SMALLER THAN #12.
- B-1,3 CONDUIT HOMERUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.
- Ⓟ PANEL DESIGNATION.
- Ⓣ JUNCTION BOX IN ACCESSIBLE CEILING SPACE OR FLUSH IN WALL WITH BLANK COVER PLATE TO MATCH DEVICE PLATES.
- 100A 3P MOLDED CASE CIRCUIT BREAKER. "A" INDICATES AMPERE FRAME, AND NUMBER OF POLES AS INDICATED. SUBSCRIPT INDICATES TYPE.
- Ⓜ UTILITY METER SOCKET, WITH C.T.s, CLIPS, ETC., PER SERVING UTILITY COMPANY.
- Ⓛ POLE MOUNTED LIGHTING FIXTURE WITH POLE AND BASE.
- Ⓛ GROUND, "GRD".
- GFI "GROUND FAULT INTERRUPTER"
- Ⓛ 20 AMP DUPLEX GFCI TYPE GROUNDING RECEPTACLE.

SHEET INDEX

SHEET	DESCRIPTION	SCALE
E-0.1	ELECTRICAL GENERAL NOTES	NO SCALE
E-1.1	ELECTRICAL SITE PLAN	1"=20'-0"
E-1.2	PHOTOMETRIC PLAN	1"=40'-0"
E-2.1	ELECTRICAL DETAILS	NO SCALE

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	FINISH	LAMP(S)	REMARKS	MANUFACTURER & NO.
A 213	ADJUSTABLE FLOOD LIGHT 120 VOLT		(1) 175W M.H. -	MOUNT TWO ON EACH MUSCO POLE.	ALL SCAPE #FL-04-175MH-120-BK

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 www.comworksdg.com

PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
 REGISTERED LANDSCAPE ARCHITECT, RLA 2110
 EXPIRATION DATE 10/31/06 DATE 5/10/06

SCALE: NTS NORTH: BENCHMARK

DATE: 7/24/06

CITY OF RIVERSIDE
 3900 MAIN STREET
 RIVERSIDE, CA

MARK REVISIONS APPR. DATE

DESIGNED BY JJR DRAWN BY SL CHECKED BY JJR

CITY OF RIVERSIDE, CALIFORNIA
 PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT

APPROVED BY BY DATE APPROVED BY

PRINCIPAL LANDSCAPE ARCHITECT RECREATION SUPERINTENDENT PARKS SUPERINTENDENT

DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT

SHAMEL PARK
 BALLFIELD REALIGNMENT
 AND SPORTS LIGHTING
 RIVERSIDE, CA

PROJECT NO. 051272

E0.1

SHEET 13 OF 19

FILE NO. PC-00

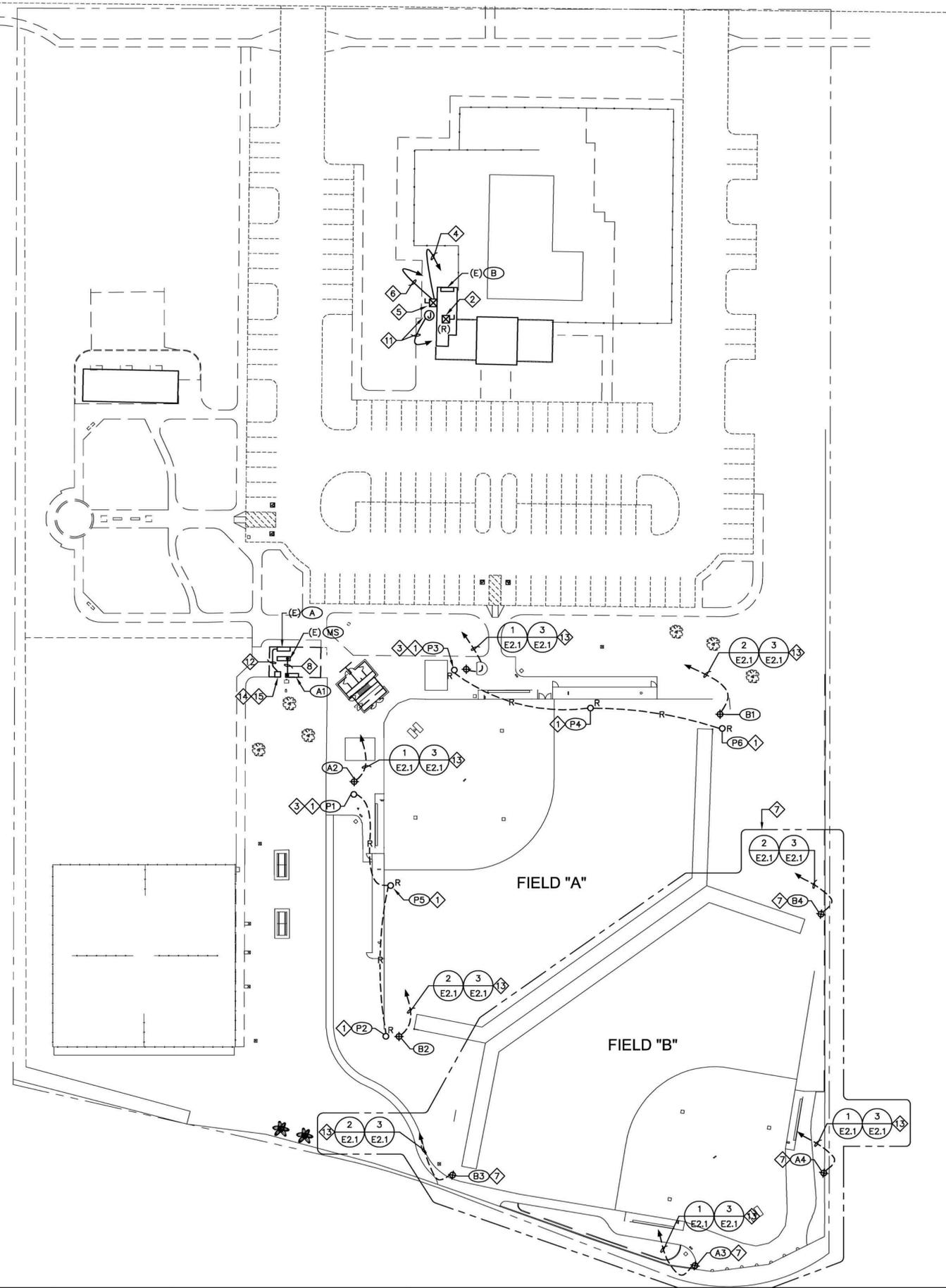


DONN C. GILMORE & ASSOCIATES, INC.
 Consulting Mechanical and Electrical Engineers

531 N. Euclid Avenue
 Ontario, CA 91762
 Ph: 909.983.8822
 Fax: 909.988.2220

SHEET NOTES

- 1 REMOVE EXISTING WOOD POLE P1, P2, P3, P4, P5 & P6 AND ASSOCIATED WIRING TO PANEL "A". CUT CONDUIT TO 12" BELOW GRADE AND ABANDON IN PLACE.
- 2 REMOVE EXISTING MOTOR STARTER AND ASSOCIATED WIRING TO POOL HOUSE PANEL "B". REMOVE EXPOSED CONDUIT WIRING.
- 3 REMOVE PROTECT EXISTING PUBLIC ADDRESS SYSTEM WIRING AND SPEAKERS FROM POLES P1 & P3. PUBLIC ADDRESS WIRING AND SPEAKERS SHALL BE REMOUNTED TO POLE A1, & A2. PUBLIC ADDRESS WIRING SHALL BE SPLICED AT POLE HAND HOLE. PROVIDE 3/4" EMT IN POLE TO SEPARATE SPEAKER WIRING FROM LIGHTING CIRCUIT AND CONTROL WIRING.
- 4 PROVIDE 1" C., 2#6 & 1#8 GND. TO PANEL "B". PROVIDE A 100 AMP. 2 POLE CIRCUIT BREAKER AND MOUNTING HARDWARE IN EXISTING PANEL "B".
- 5 IRRIGATION PUMP IS FURNISHED WITH A COMBINATION DISCONNECT SWITCH AND MOTOR STARTER. SEE IRRIGATION PLANS.
- 6 PROVIDE 3/4" C., WITH WIRING FOR PUMP CONTROLS PER MANUFACTURERS SHOP DRAWINGS TO FLOW ACTIVATED SWITCH.
- 7 PROVIDE AN ADDITIVE BID ITEM FOR THE BALLFIELD LIGHTING SYSTEM FOR FIELD "B".
- 8 REFER TO SINGLE LINE DIAGRAM (3/E2.1) FOR FEEDER SIZE TO PANEL "A1".
- 9 REFER TO (4/E2.1) FOR PANEL "A1" & PANEL "A" LOAD SCHEDULES.
- 10 AIM SECURITY LIGHTS IN FIELD (AFTER DUSK) AS DIRECTED BY OWNER.
- 11 PROVIDE 3/4" C., WITH (1) CAT 3 4 PAIR VOICE CABLE TO PHONE OUTLET IN OFFICE.
- 12 PROVIDE 3/4" C., WITH 6#14 & 1#14 GND. FOR LIGHTING CONTROL OF SECURITY LIGHTING FROM MUSCO LIGHTING CONTROL PANEL.
- 13 PROVIDE 1" C., WITH MUSCO LIGHTING CONTROL CABLES FROM EACH POLE MOUNTED MUSCO LIGHTING CONTACTOR CABINET TO THE MUSCO CONTROL PANEL.
- 14 MUSCO LIGHTING CONTROL PANEL. CONNECT TO CIRCUIT A1-24 WITH 3/4", 2#12 & 1#12 GND.
- 15 PROVIDE A 3/4" C., WITH (1) CAT 3 4 PAIR VOICE CABLE TO TELEPHONE BACKBOARD NEXT TO PANEL "MS".



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PREPARED UNDER THE DIRECTION OF
TIMOTHY I. MALONEY
REGISTERED LANDSCAPE ARCHITECT, RLA 2110
EXPIRATION DATE 10/31/06 DATE 5/10/06
SCALE: 1" = 40'-0"
DATE: 7/24/06

CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY JJR DRAWN BY SL CHECKED BY JJR

APPROVED BY	BY	DATE

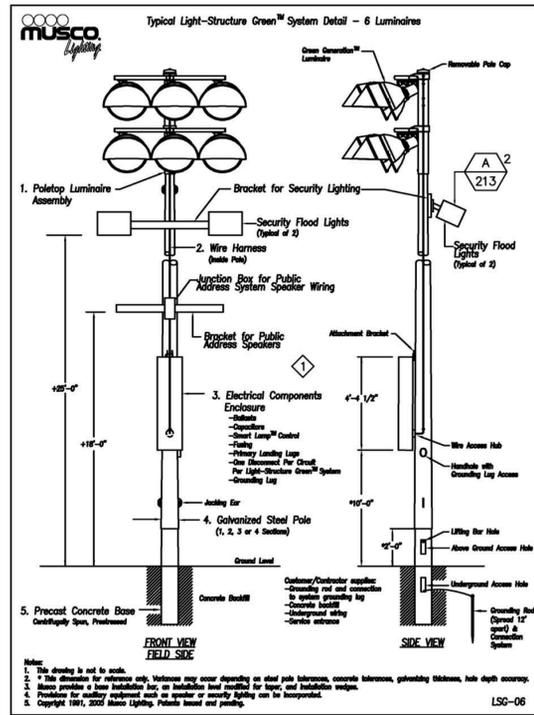
CITY OF RIVERSIDE, CALIFORNIA
PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT

SHAMEL PARK
BALLFIELD REALIGNMENT
AND SPORTS LIGHTING
RIVERSIDE, CA
ELECTRICAL SITE PLAN

PROJECT NO. 051272
E1.1
SHEET 15 OF 19
FILE NO. PC-00

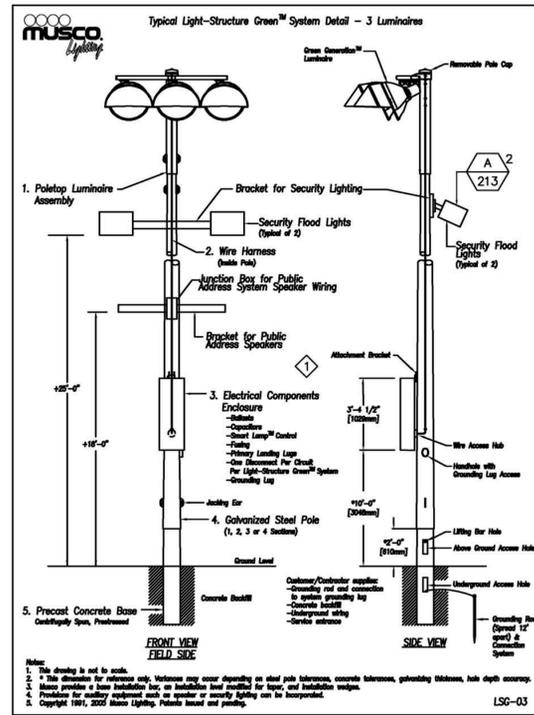
SHEET NOTES

1. PROVIDE AN ADDITIVE BID ITEM FOR THE BALLFIELD LIGHTING SYSTEM FOR FIELD "B".
2. PROVIDE 1" C., 2#8 & 1#8 GND. (BALL FIELD LIGHTS); 1" C., 2#10 & 1#10 GND. (SECURITY LIGHTS); 3/4" C., WITH BALL FIELD CONTROL WIRING.
3. EXISTING PUBLIC ADDRESS SYSTEM WIRING TO BE RELOCATED TO POLES A1 & A2 FROM POLES P1 & P3. REFER TO NOTE 3 ON SHEET E1.1.
4. PROVIDE 3/4" C.O. FOR FUTURE POLE A3 & A4 PUBLIC ADDRESS SYSTEM WIRING.
5. PROVIDE CIRCUIT BREAKER AND MOUNTING HARDWARE TO MATCH EXISTING OR PROVIDE BUS TAP AND EXTERNAL CIRCUIT BREAKER.
6. PANEL "A1" SHALL BE A 208/120 VOLT, THREE PHASE, FOUR WIRE, 42 CIRCUIT, LUGS ONLY PANEL, NEMA 1 ENCLOSURE, SURFACE MOUNTED, 22,000 AIC, BRANCH CIRCUIT PANELBOARD.



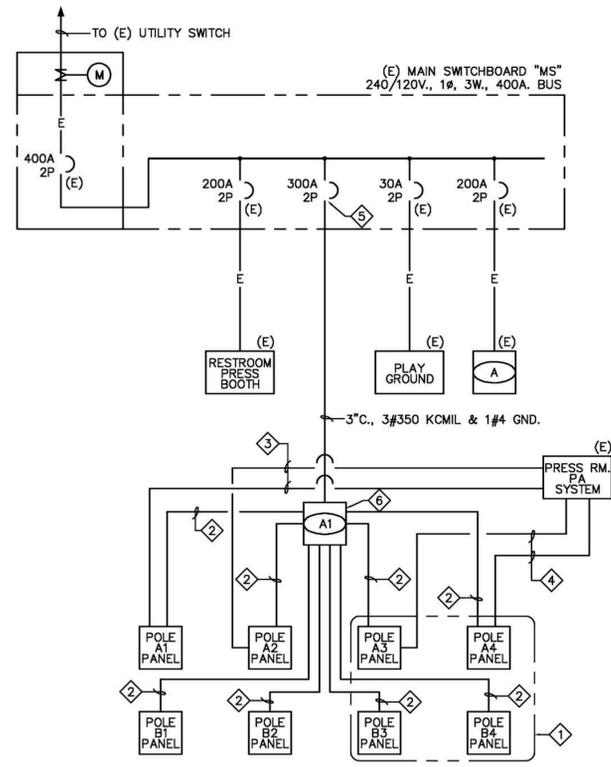
POLE "A" DETAIL (TYPICAL FOR A1, A2, A3 & A4)

SCALE: 1
N.T.S.



POLE "B" DETAIL (TYPICAL FOR B1, B2, B3 & B4)

SCALE: 2
N.T.S.



SINGLE LINE DIAGRAM

SCALE: 3
N.T.S.

BALL FIELD LIGHTS PANEL "A1"			SECURITY LIGHTS EXISTING PANEL "A"		
CIRCUIT	POLE	LOAD (KW)	CIRCUIT	POLE	LOAD (KW)
1 & 3	A1	9	7 & 8	A1	0.88
5 & 7	A2	9	7 & 8	A2	0.88
9 & 11	B1	4.5	7 & 8	B1	0.88
13 & 15	B2	4.5	7 & 8	B2	0.88
2 & 4	A3	9			
6 & 8	A4	9			
10 & 12	B3	4.5			
14 & 16	B4	4.5			
TOTAL	54KW OR 225 AMPS @ 240V., 1φ.		TOTAL	3.52KW OR 14.6 AMPS @ 240V., 1φ.	

PANEL "A" & PANEL "A1" LOAD SCHEDULE

SCALE: 4
N.T.S.



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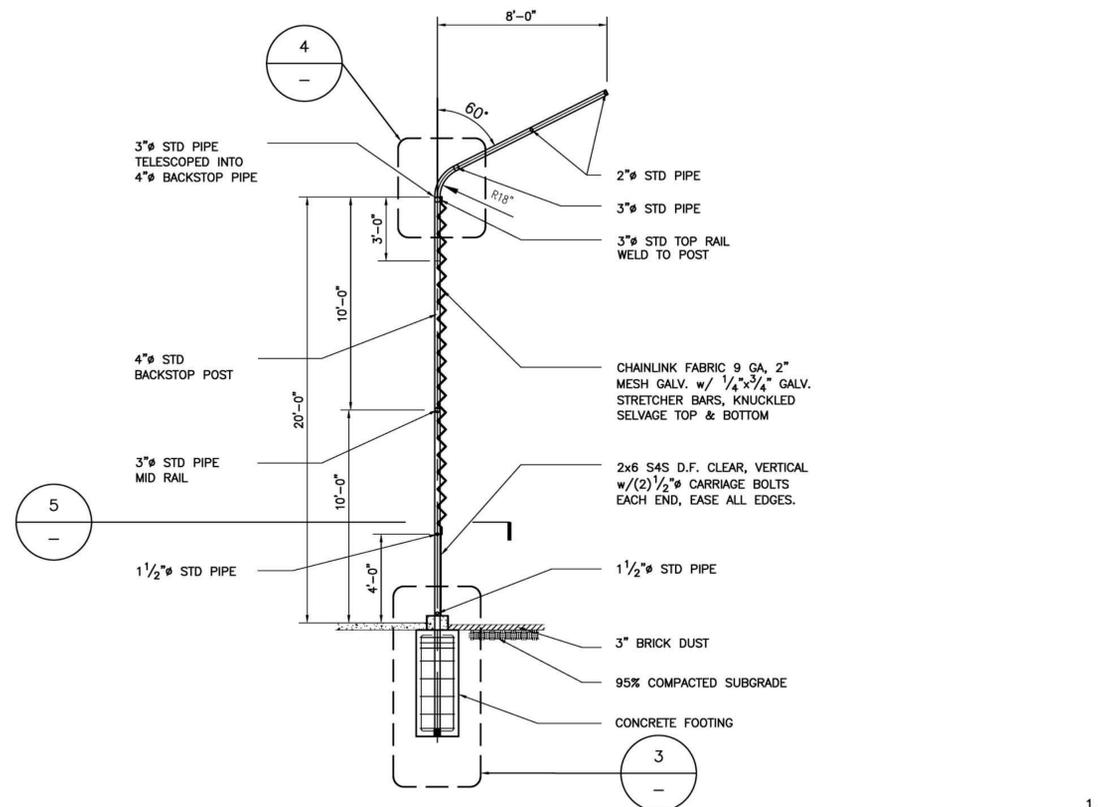
MARK	REVISIONS	APPR.	DATE

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APPROVED BY: BY DATE: APPROVED BY:
RECREATION SUPERINTENDENT: PARKS SUPERINTENDENT: DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT: DATE:

SHAMEL PARK
BALLFIELD REALIGNMENT
AND SPORTS LIGHTING
RIVERSIDE, CA
ELECTRICAL DETAILS

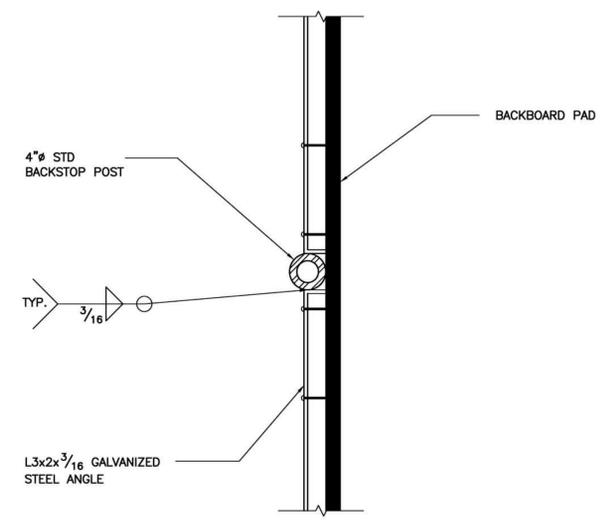
PROJECT NO. 051272
E2.1
SHEET 17 OF 19
FILE NO. PC-00



1/4" = 1'-0"

BACKSTOP ELEVATION

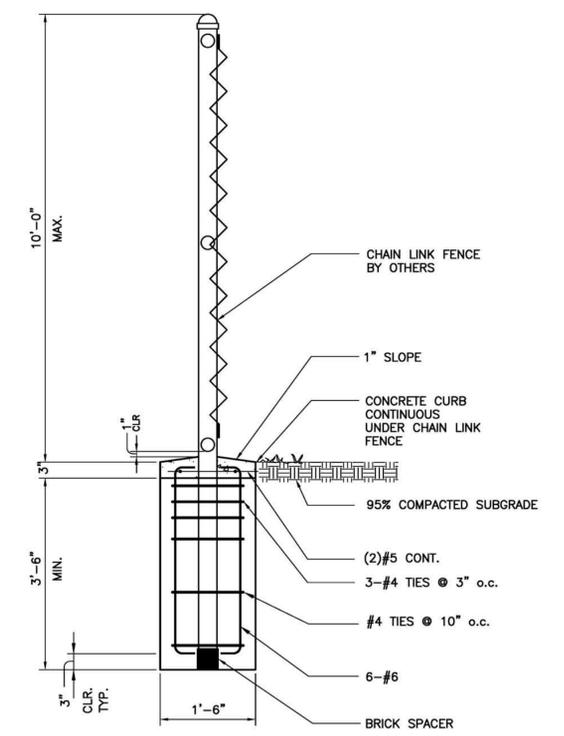
2



3/4" = 1'-0"

DETAIL

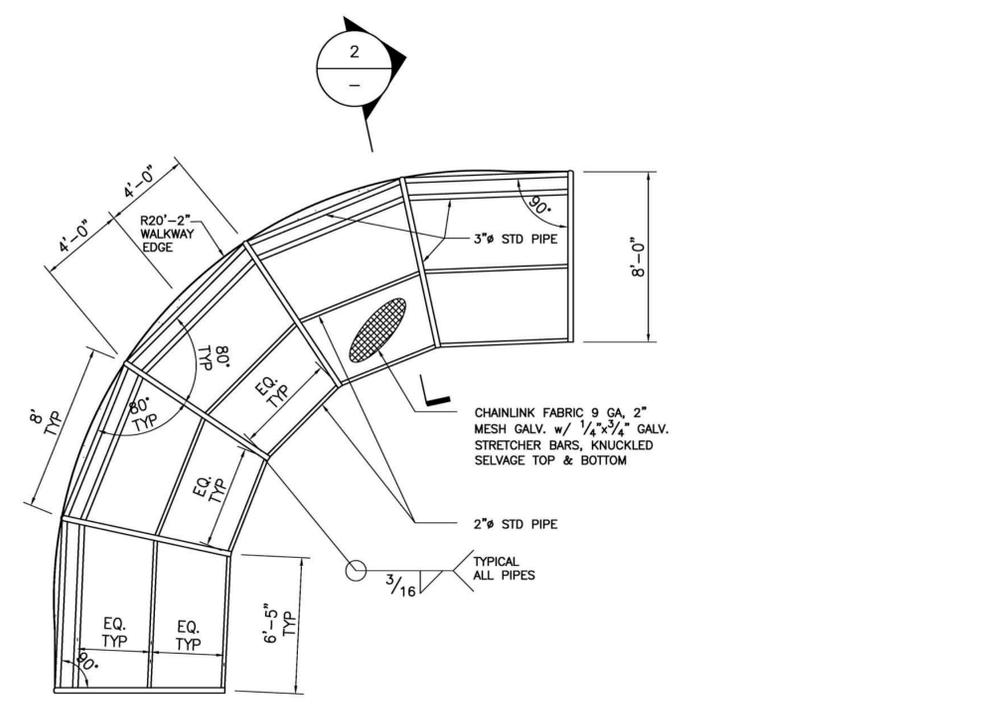
5



3/4" = 1'-0"

FENCE FOUNDATION DETAIL

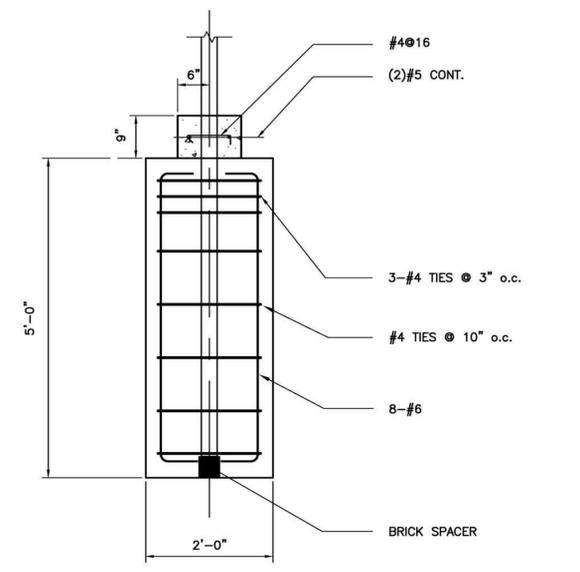
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1/4" = 1'-0"

BACKSTOP PLAN

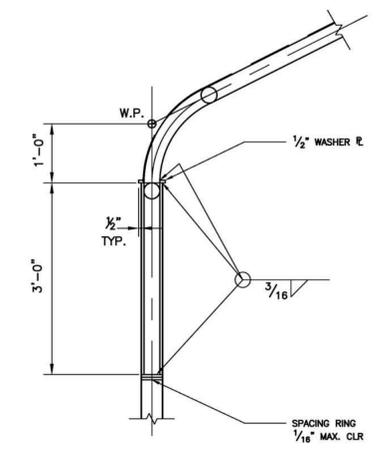
1



3/4" = 1'-0"

FOUNDATION DETAIL

3



3/4" = 1'-0"

SPlice DETAIL

4



CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA

BENCHMARK

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____

CITY OF RIVERSIDE, CALIFORNIA
PARKS, RECREATION, & COMMUNITY SERVICES DEPARTMENT

APPROVED BY	BY	DATE

APPROVED BY: _____
DIRECTOR OF PARKS, RECREATION, AND COMMUNITY SERVICES DEPARTMENT

Shamel Park Ballfield
Realignment and Sports Lighting

RIVERSIDE, CA

GENERAL NOTES

PROJECT NO. 06-NO19

S21

SHEET 19 OF 19

FILE NO. PC-00