# ARROYO DEL OSO TENNIS COURT ADDITION: PHASE I

ARROYO DEL OSO PARK

CONSTRUCTION PLANS

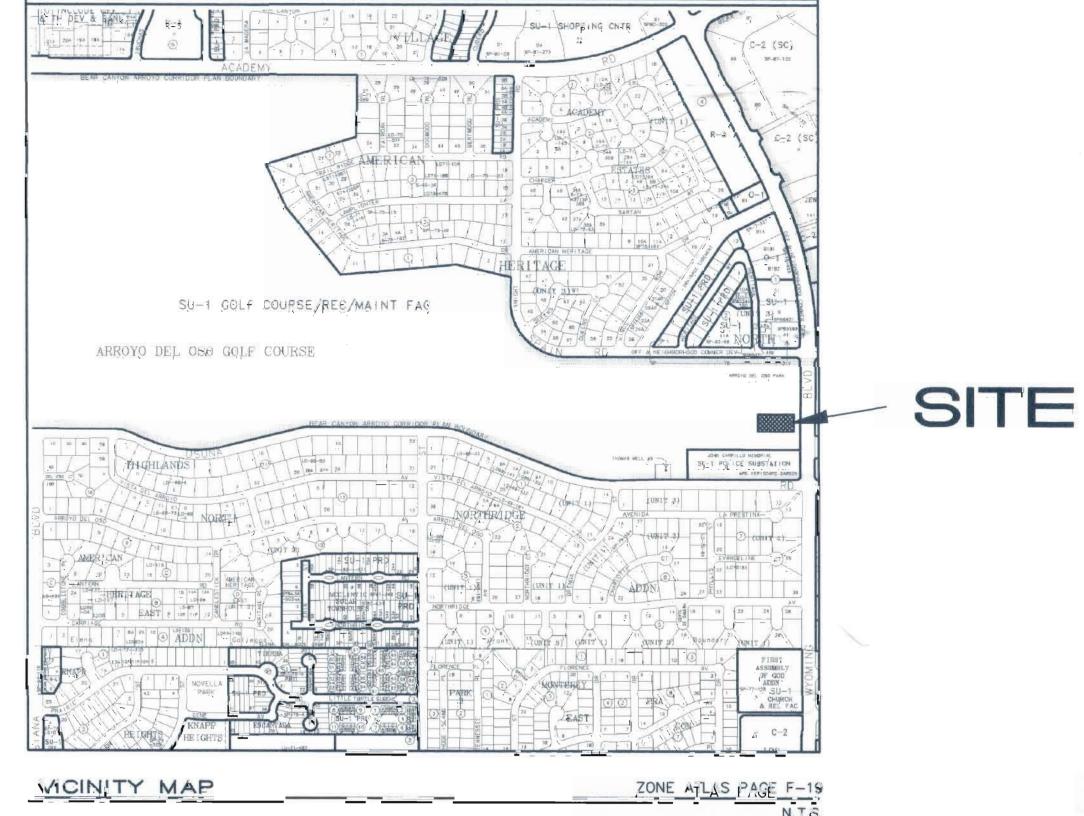


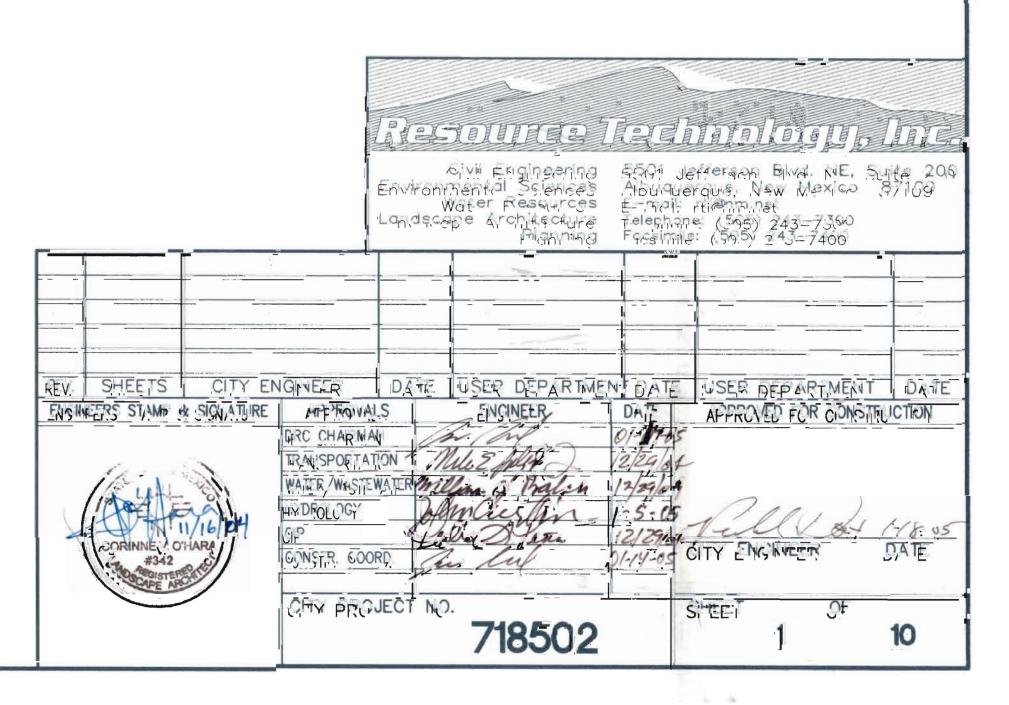
# CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT

NOVEMBER 2004

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#### GOVERNING SPECIFICATIONS

1) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, INCLUDING UPDATE #7.

#### MONUMENTATION INFORMATION

- INFORMATION PERTAINING TO THE MONUMENTATION FOR THIS PROJECT MAY BE OBTAINED FROM THE CITY OF ALBQ. PUBLIC WORKS DEPT, SURVEY
- 3) THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS, CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT OF ANY COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED, REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

#### EARTHWORK

- 4) EARTHWORK QUANTITIES ARE BASED ON FINAL VOLUMES COMPACTED IN PLACE. ON-SITE EXCAVATION AND BACKFILL QUANTITY (BID ITEM 0204.01) IS BASED ON A SHRINKAGE FACTOR OF 20%.
- 5) ALL SIDESLOPES TO BE 3H:1V MAXIMUM, KEEPING SLOPES FLATTER WHEREVER POSSIBLE. SLOPES SHALL TRANSITION SMOOTHLY TO EXISTING GRADES AND ADJACENT STRUCTURES IN ALL CASES.
- 6) SEE ADDITIONAL EARTHWORK NOTES AND SPECIFICATIONS ON SHEET 3 OF 10. NO MATERIAL PITS HAVE BEEN IDENTIFIED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SUITABLE MATERIAL FROM ANY ACCEPTABLE SOURCE, PROVIDED THAT IT MEETS PROJECT SPECIFICATIONS. ALL MATERIAL PIT ACTIONS SHALL BE IN COMPLIANCE WITH SECTION 205 OF THE C.O.A. SPECIFICATIONS. NO ADDITIONAL PAYMENT SHALL BE MADE FOR HAULING OF SUCH MATERIAL.
- 7) THE DESIGN "R" VALUE FOR THIS PROJECT IS 50. MATERIAL WITH AN "R" VALUE OF LESS THAN 50 SHALL NOT BE PLACED IN, NOR ALLOWED TO REMAIN WITHIN, THE TOP TWO FEET OF FINISHED SUBGRADE.
- 8) THE CONTRACTOR SHALL WARP SLOPES WHERE NECESSARY TO STAY WITHIN THE RIGHT-OF-WAY OR CONSTRUCTION LIMITS, OR TO MEET EXISTING STRUCTURES.
- 9) ALL EXCAVATION SHALL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND
- 10) THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF A 35 TON NON-VIBRATING ROLLER MAXIMUM TO OBTAIN THE REQUIRED COMPACTION IN EMBANKMENT AND SUB GRADE IN URBAN OR OTHER AREAS WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER PERMANENT STRUCTURES.

## WASTE DISPOSAL REQUIREMENTS

- 11) THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT PAVEMENT MATERIAL REMOVED ON THE PROJECT BY: BREAKING DOWN TO MAXIMUM 4" SIZE AND PLACING WITHIN NEW ROADWAY PRISM AT LEAST 2 FEET BELOW FINISHED GRADE; RECYCLING; STOCK PILING; AND/OR, HAULING TO AN APPROVED LANDFILL; IN ACCORDANCE WITH THE REGULATIONS OF THE NEW MEXICO SOLID WASTE ACT.
- 12) ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, UNSUITABLE CONSTRUCTION MATERIALS AND DEBRIS FROM CLEARING AND GRUBBING, ARE TO BE PLACED IN AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE DECIDED UPON AND COORDINATED BY THE CONTRACTOR, WITH THE APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING OF THE DETAILS OF DISPOSAL OPERATIONS. BORROW MATERIAL, ROCK WASTE, VEGETATIVE DEBRIS, ETC., SHALL NOT BE PLACED IN WETLAND AREAS OR AREAS WHICH MAY IMPACT ENDANGERED SPECIES OR ARCHAEOLOGICAL RESOURCES. AN ARCHAEOLOGICAL SURVEY AND ENVIRONMENTAL CLEARANCE SHALL BE GAINED BY THE CONTRACTOR BEFORE DISPOSAL SITES ARE ACCEPTED.

## HAZARDOUS SPILLS REQUIREMENTS

13) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, ETC., WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING DISCOVERIES OF PAST SPILLS AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NEW MEXICO EMMRONMENT DEPARTMENT EMERGENCY RESPONSE AT 827-9329. NON-EMERGENCIES MAY BE REPORTED TO 428-2500.

#### ENVIRONMENTAL COMPLIANCE

- 14) THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY, INCLUDING THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEMS (NPDES) PROGRAM. FOR INFORMATION, CONTACT THE NPDES CONTACT FOR THE STATE OF NEW MEXICO AT (505) 827-2855. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL PERMITS REQUIRED BY FEDERAL, STATE, AND CITY REGULATIONS FOR NPDES COMPLIANCE, AS WELL AS MONITORING OF THE NPDES PLAN.
- 15) THE AIR POLLUTION CONTROL REGULATION OF THE ALBUQUERQUE -BERNALILLO COUNTY AIR QUALITY CONTROL BOARD LIMIT EMISSIONS OF PARTICULATE MATTER AND THE USE OF CUT BACK ASPHALT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLARIFY THESE RESTRICTIONS WITH THE ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO SUBMITTAL OF BIDS TO AVOID CONFLICT WITH THE REGULATIONS. CALL THE ENVIRONMENTAL HEALTH DEPARTMENT AT 768-2600.

#### UTILITIES

- 16) CAUTION ALL EXISTING UTILITIES SHOWN REFLECT THE BEST INFORMATION AVAILABLE AND ARE APPROXIMATE ONLY. EXACT DEPTH OF UTILITIES IS UNKNOWN. ADDITIONAL UTILITIES MAY ALSO EXIST WHICH ARE NOT
- 17) THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WHEN WORKING NEAR THEIR SYSTEMS. UTILITY COMPANIES SHALL BE GIVEN 48 HOURS (WEEKENDS EXCLUDED) ADVANCE NOTICE FOR LINE LOCATION. CALL NEW MEXICO ONE CALL SYSTEM INC. AT 260-1990 REGARDING LOCATION OF UTILITY LINES.
- 18) IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES. ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 19) ALL UTILITY VALVE BOXES, MANHOLES, AND/OR UTILITY POLES WHICH FALL WITHIN THE CONSTRUCTION ZONE SHALL BE ADJUSTED TO GRADE OR RELOCATED BY THE RESPECTIVE UTILITIES, UNLESS OTHERWISE NOTED ON PLANS. THE CONTRACTOR SHALL COORDINATE SUCH ACTIVITIES IN ORDER TO FACILITATE ADJUSTMENT OR RELOCATION IN A TIMELY MANNER.

#### GENERAL CONSTRUCTION

- 20) THE CONTRACTOR IS TO COORDINATE ALL WORK WITH THE PROJECT
- 21) IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE AND SUPPLY WATER FOR THE PROJECT. THE COST WILL BE INCIDENTAL TO COMPLETION OF THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE THEREFORE.
- 22) ALL EXISTING TREES, SHRUBS OR TURF ON AN EXISTING IRRIGATION SYSTEM SHALL BE PROTECTED AND WATERED DURING CONSTRUCTION; ANY VARIANCE SHALL BE CLEARED THROUGH THE PROJECT MANAGER. REMOVAL OF ANY OTHER EXISTING NON-IRRIGATED TREES OR SHRUBS NECESSARY TO COMPLETE THE PROJECT SHALL BE COORDINATED WITH AND APPROVED BY THE PROJECT MANAGER PRIOR TO ANY REMOVALS.
- 23) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT, ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS MAY BE DESIGNATED BY THE PROJECT MANAGER. ALL REMOVALS. UNLESS OTHERWISE INDICATED WILL BE INCIDENTAL TO BID ITEM 0201.01-SITE. CLEARING AND GRUBBING.
- 24) ANY SALVAGEABLE MATERIALS REMOVED FROM THIS PROJECT SHALL BE HAULED AND STOCKPILED AT A LOCAL LOCATION DETERMINED BY PROJECT MANAGER, HAUL OF SUCH MATERIALS SHALL BE INCIDENTAL TO BID ITEM 0201.01- SITE CLEARING AND GRUBBING.
- 25) THE CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR RIGHT-OF-WAY LIMITS.
- 25) THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIM TO EXISTING WALLS, FENCES, SIDEWALKS, TRAIL SURFACES, IRRIGATION LINES, VALVE BOXES, MANHOLES, CURB AND GUTTER ETC. DURING CONSTRUCTION AND SHALL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTATION OF ANY EXISTING DAMAGE. PRIOR TO START OF CONSTRUCTION.
- 27) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY EXISTING HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 28) IF BARRICADING IS NECESSARY FOR ELECTRICAL WORK: FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO CONSTRUCTION COORDINATION DIVISION. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL. NOTIFY BIARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE COA STANDARD SPECIFICATIONS.
- 29) THE CONTRACTOR SHALL BE THE RESPONSIBLE PARTY FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL TRAFFIC CONTROL PROCEDURES AND MATERIALS. THE CONTRACTOR SHALL HAVE PERSONNEL AVAILABLE 2.4 HOURS PER DAY, SEVEN (7) DAYS PER WEEK TO INSPECT AND MAINTAIN TRAFFIC CONTROL DEVICES AS DIRECTED BY THE PROJECT ENGINEER.
- 30) IF TRAFFIC CONTROL IS NECESSARY FOR ELECTRICAL WORK: THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN A TRAFFIC CONTROL DIARY, WHICH SHALL BE AVAILABLE FOR REVIEW BY THE CITY AND JOR HIGHWAY DEPARTMENT PROJECT MANAGERS. COST OF THIS WORK IS TO BE INCLUDED IN THE UNIT BID PRICE FOR BID ITEM 0019.01 CONSTRUCTION TRAFFIC CONTROL.

- 31) ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. COORDINATE LOCATION FOR NEW SIGNS, PAVEMENT MARKINGS AND/OR POSTS WITH ENGINEER.
- 33) UPON COMPLETION OF CONSTRUCTION ALL AREAS WITHIN PROJECT LIMITS WHICH ARE DISTURBED, OR ARE TO BE REVEGETATED, SHALL BE SEEDED IN ACCORDANCE WITH SECTION 1012 - "NATIVE PLANT SEEDING" OF THE STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN.
- 34) THE CONTRACTOR SHALL MAINTAIN AN UP-TO-DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE SHALL BE KEPT CURRENT WITHIN TWO WEEKS AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT ENGINEER THROUGHOUT THE PROJECT. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL PAYMENT.
- 35) QUANTITIES SHOWN HEREIN, FOR THE VARIOUS BID ITEMS, ARE FOR THE CONTRACTOR'S INFORMATION ONLY. PAYMENT SHALL BE BASED ON ACTUAL QUANTITIES AS CONSTRUCTED.

#### CONSTRUCTION STAKING

36) BID ITEM 004.01 CONSTRUCTION STAKING SHALL INCLUDE ALL SURVEYING AND CONTROL STAKING NECESSARY TO ESTABLISH PROJECT CENTERLINE, TOE OF SLOPE CATCH POINTS AND OTHER FEATURES AS REQUIRED FOR CONSTRUCTION OF THE PROJECT.

#### CONSTRUCTION SURVEYING

BUSINESS

COMCAST

MCI WORLDCOM

PNM-ELECTRIC

McLEOD USA

PNM-GAS

CITY OF ALBUQUERQUE

NEW MEXICO UTILITIES

QWEST LONG DISTANCE

TIME WARNER TELECOM

UNIVERSAL ACCESS, INC

XSPEDIUS MANAGEMENT CO. STEVE BENJAMIN

LEVEL 3 COMMUNICATIONS

AT&T

37) THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND RECORDING ALL EXISTING AND FINAL GRADES BY CROSS-SECTIONING OR OTHER MEANS, FOR THE PURPOSE OF DETERMINING EARTHWORK QUANTITIES. THESE RECORDS WILL BE SUBJECT TO REVIEW BY THE CITY AND/OR ENGINEER FOR VERIFICATION OF PAY QUANTITIES.

UTILITY CONTACTS

DAVID CROWEL

RITA ERICKSON

ANDY DARNELL

RICK MUELLER

DAVID MULLER

LARRY KELLY

BOB GAY

ROGER WEATHERS

MARK BOUCHARD

ROYAL HARRISON

JAIME MARTINEZ

JEFF ROMANOWSKI

GREG OLSON

768-2719

761-6235

346-4470

244-3161

898-2661

241-3402

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245-8706

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Civil Engineering 5501 Jefferson Blivd. NE, Suite 200 Environmental Scienses Alburguerque, New Mexico 87109 Water Resources E-mail: ritionm.net Landscape: Architecture Telephome: (505) 243-7300 Planning Foldsimile: (505) 243-7400	DESIGNED BY	DRAWN BY	CHECKED BY
CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT PARK DIVISION			

TITLE: ARROYO DEL OSO TENNIS COURT ADDITION, PHASE I Spain and Wyoming NE, Albuquerque, NM ENERAL NOTES

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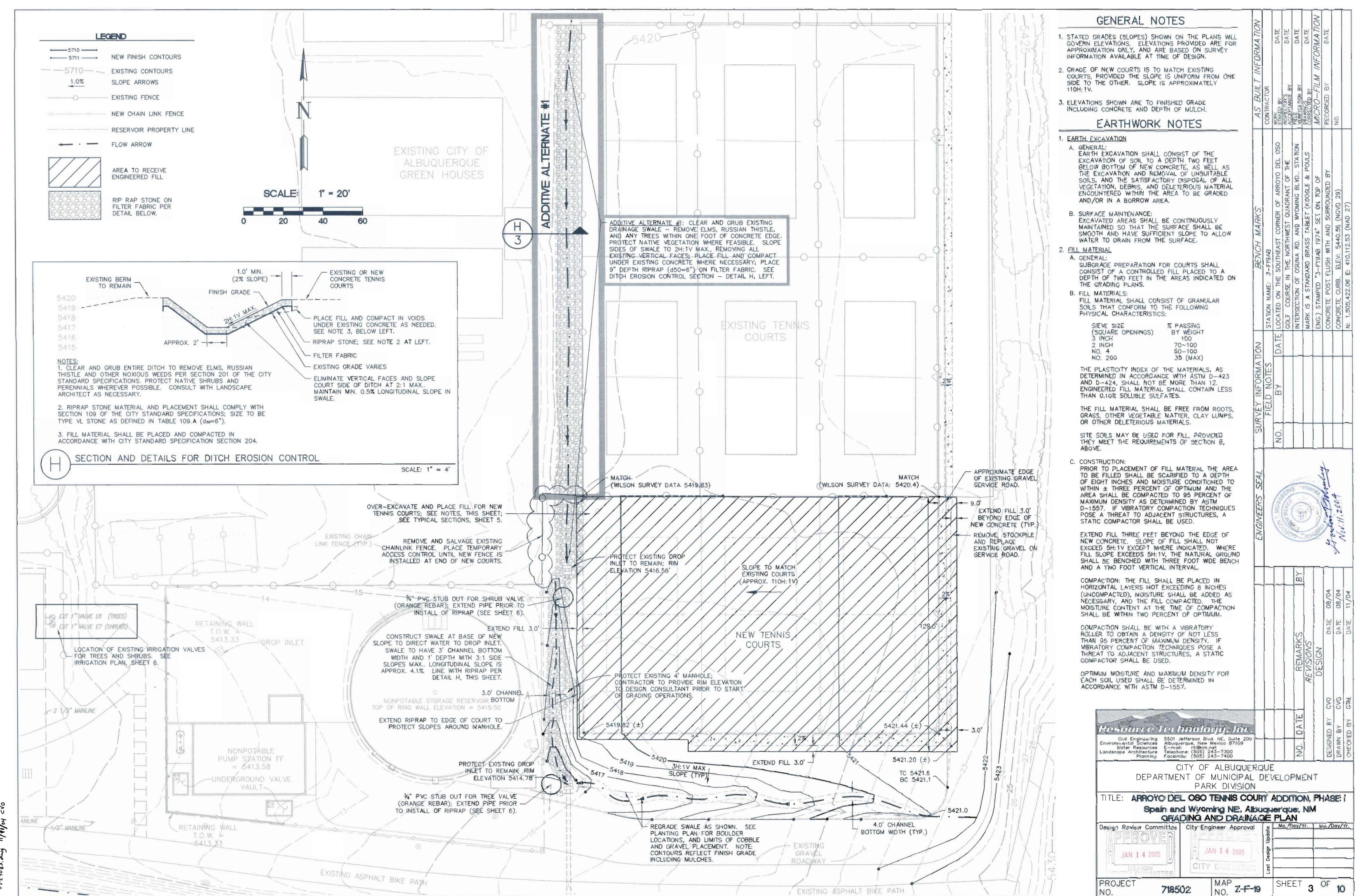
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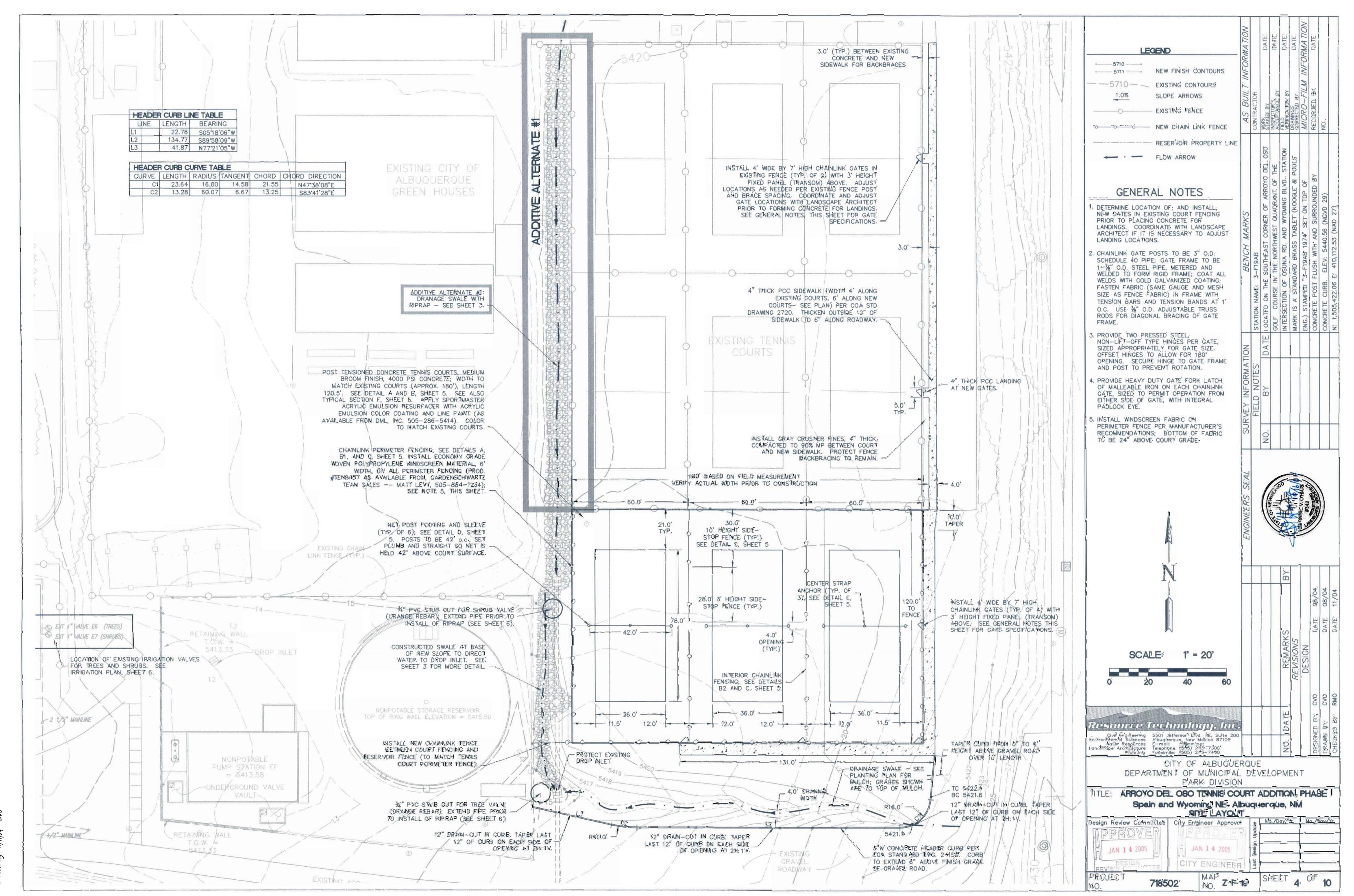
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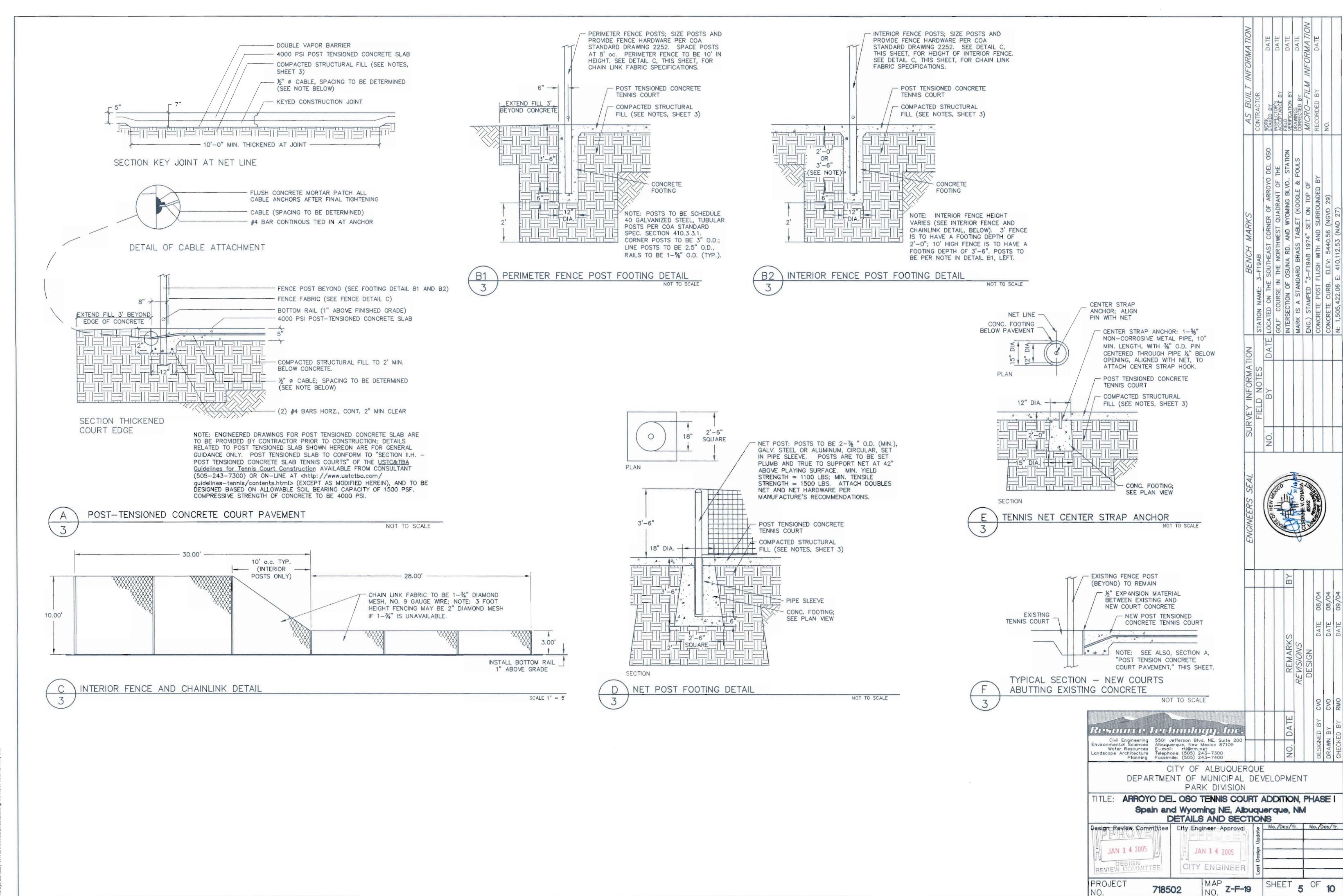
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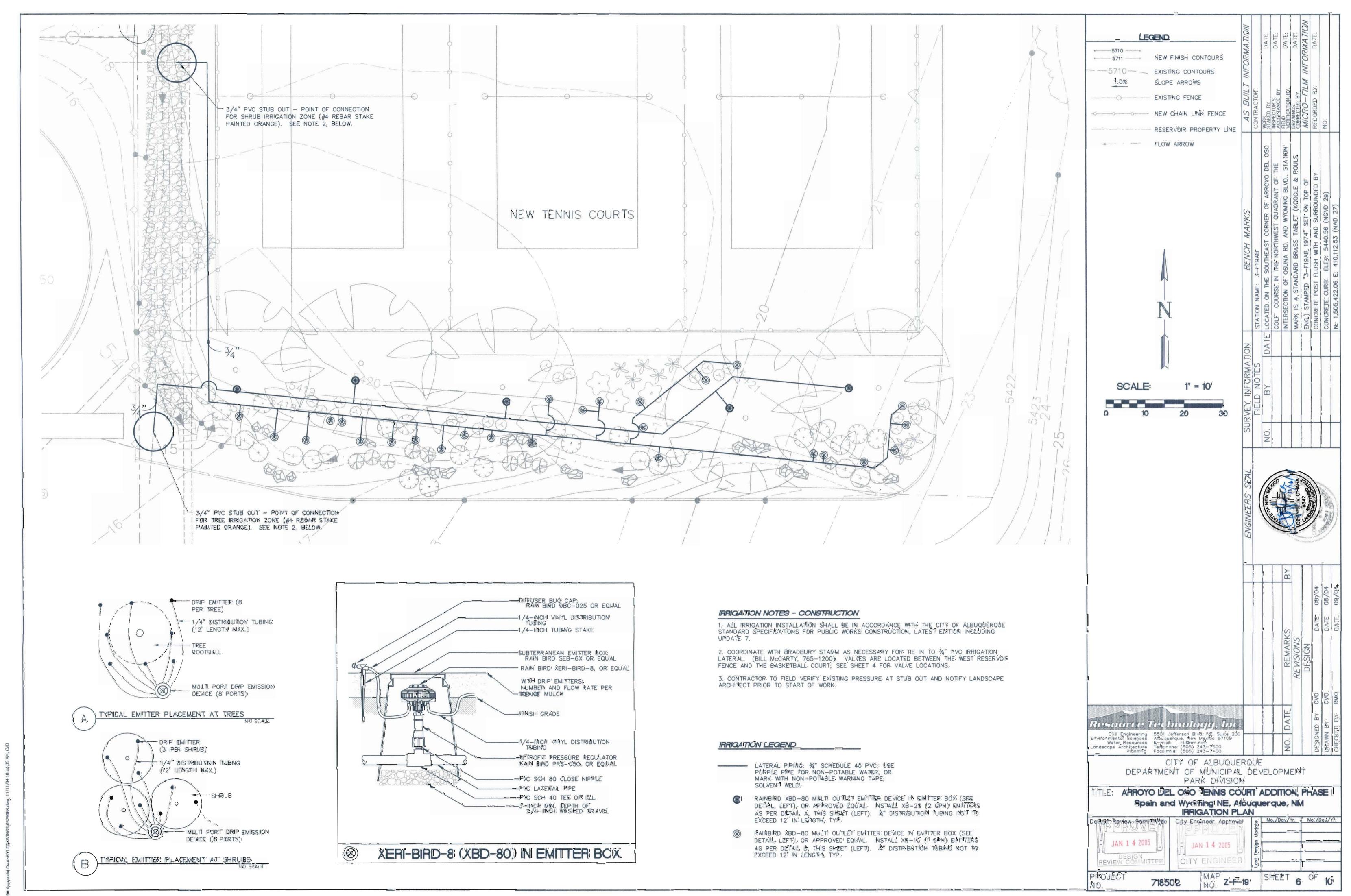
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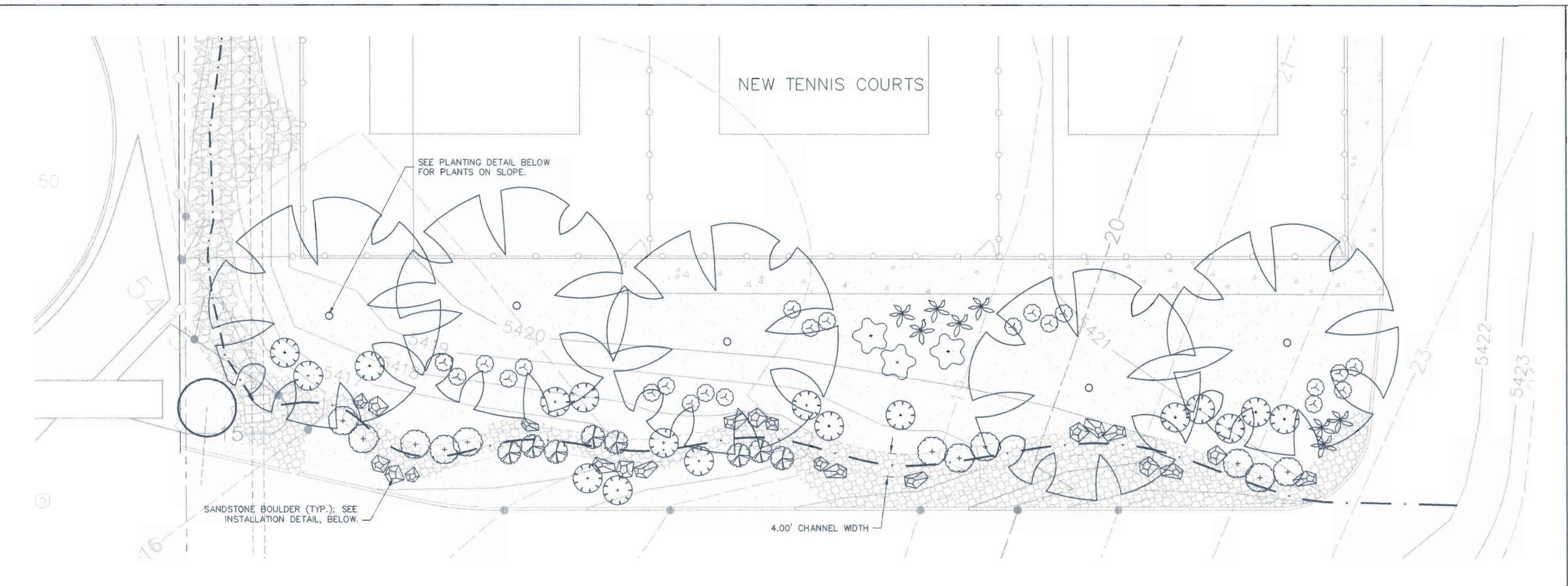






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# PLANTING NOTES

1. PLANTING OPERATIONS ARE TO COMPLY WITH SECTION 1005 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES FROM DAMAGE.

PLANT SUBSTITUTIONS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION PER SECTION 1005.3.2.1.
 ALL PLANT MATERIAL SHALL BE INSPECTED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION, IN ACCORDANCE WITH SECTION 1005.3.2.2.7. SEE SECTION 3.2.2 FOR MORE INFORMATION ON SELECTION CRITERIA FOR PLANTS.

4. PLANTING SOIL MIXTURE FOR BACKFILL SHALL BE TESTED AND THE RESULTS PROVIDED TO LANDSCAPE ARCHITECT, PER SECTION 1005.3.3.3.

5. LOCATIONS OF ALL PLANTS SHALL BE STAKED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ANY EXCAVATION FOR PLANTING.

6. TREES SHALL BE LOCATED A MINIMUM OF 8' AWAY FROM IRRIGATION LINES, CONCRETE WALKWAYS, EDGE OF TENNIS COURTS, AND CURBS.

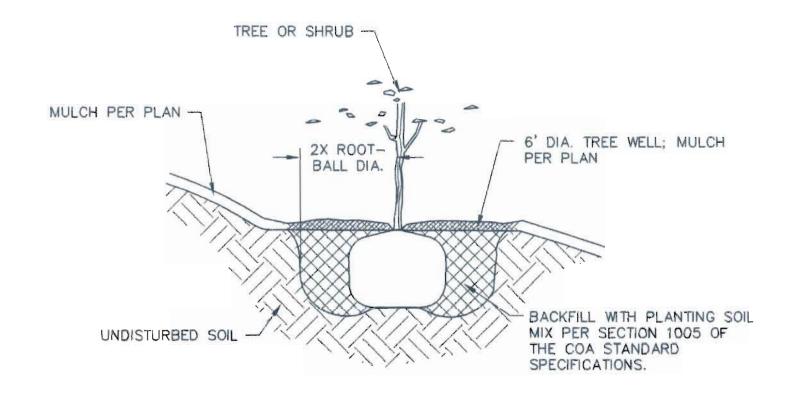
7. A 6' DIAMETER WELL SHALL BE PROVIDED AROUND THE BASE OF ALL TREES.

8. GRAVEL OR CRUSHER FINES MULCH SHALL BE A MINIMUM OF 4" THROUGHOUT, OR DEEPER IF SO SPECIFIED IN PLANS.

# PLANT LEGEND

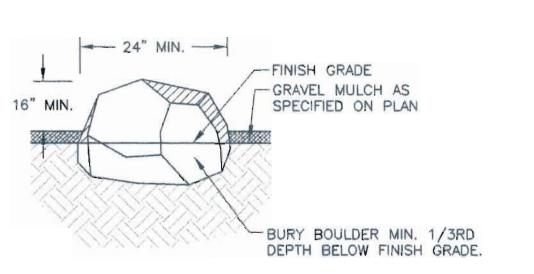
Quantity	Symbol	Common Name	Scientific Name	Planting Size	Height	Width	Comments
	NA	Broadleaf Deciduous Trees					
5	5.5	Honey Locust "Shademaster"	Gleditsia triacanthos inermis	2"-Cal	80.00	40.00	Medium Water Use
	ENS						
		Shrubs					
11	$\odot$	Apache Plume	Fallugia paradoxa	1-Gal	5.00	5.00	Drought Tolerant
22	8	Blue Mist Spirea	Caryopteris x clandonensis	5-Gal	3.00	3.00	Low to Medium Water Use
3	(3)	Curl Leaf Mountain Mahogany	Cercocarpus ledifolius	5-Gal	10.00	6.00	Drought Tolerant
8	36	Red Yucca	Hesperaloe parviflora	5-Gal	3.00	4.00	Drought Tolerant
17		Rubber Rabbitbrush (Chamisa)	Chrysothamnus nauseosus	1-Gal	5.00	5.00	Drought Tolerant
8	@	Western Sand Cherry	Prunus besseyi	1-Gal	4.00	4.00	Drought Tolerant

# PLANTING DETAILS



PLANTING ON SLOPE

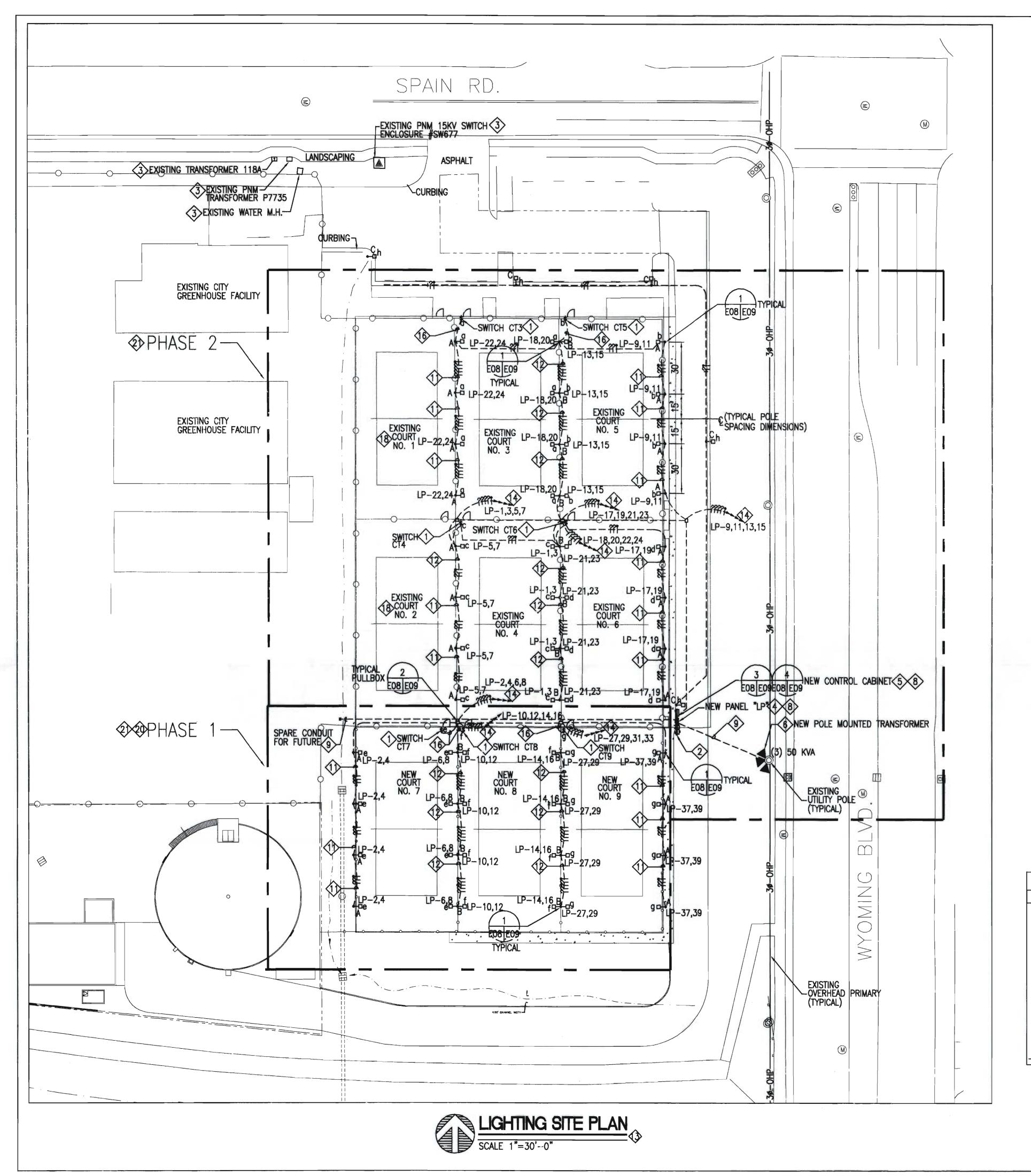
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BOULDER INSTALLATION DETAIL

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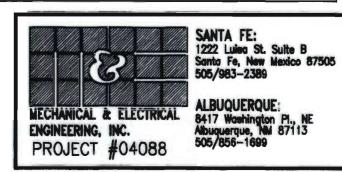
# KEYED NOTES: <

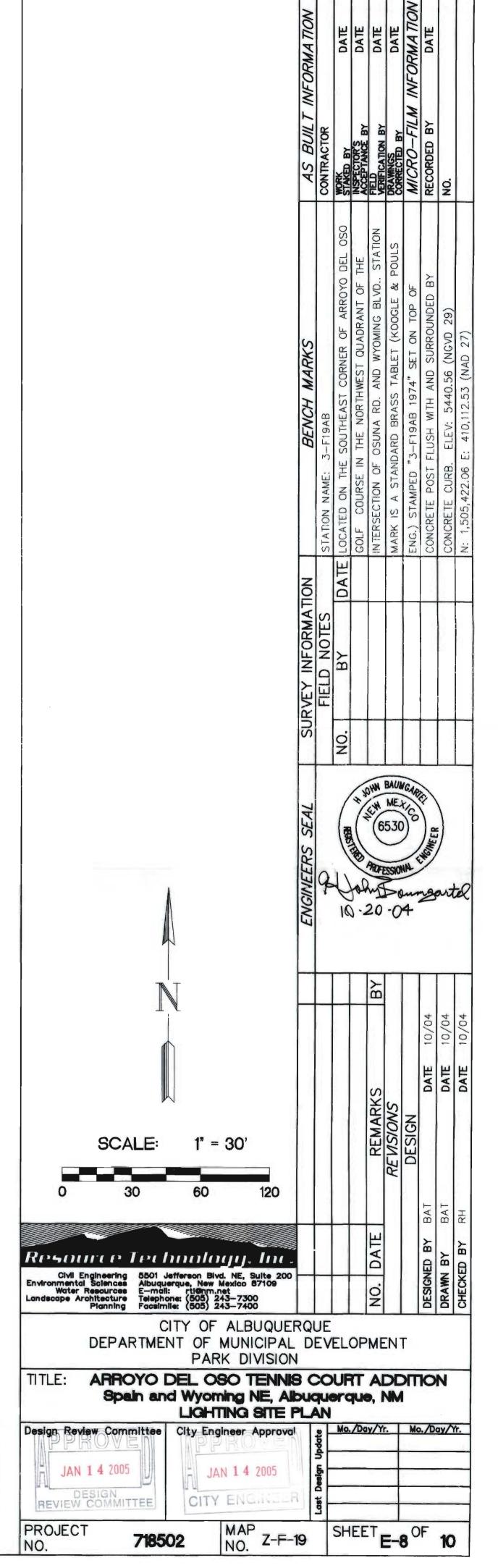
- 1. ON-OFF DOUBLE POLE DOUBLE THROW HUBBELL #HBL1382 STATION WITH HUBBELL #HBL7420 COVERPLATE. PROVIDE WITH SIGN. REFER TO CONTROL DIAGRAM ON SHEET E09. LOCATE SWITCH ON LATCH SIDE OF GATE.
- 2. INSTALL FREE STANDING UNISTRUT FRAMEWORK FOR SUPPORT OF PANEL AND CONTROL CABINET. ANCHOR VERTICAL LEGS IN CONCRETE. DEGREASE, PRIME AND PAINT FRAME. (PHASE 2)
- SHOWN FOR GENERAL INFORMATION ONLY.
- 4. REFER TO PANEL SCHEDULE ON E10.
- 5. CONTROL CABINET SHALL BE NEMA 4X (GASKETED/RAINSHIELD). CABINET SHALL BE SIZED TO ACCOMMODATE SWITCHES, RELAYS, TIMERS, ETC. SHOWN IN DIAGRAMS ON SHEET E09.
- 5. TRANSFORMER AND CONDUCTORS BY PNM. CONDUIT BY ELECTRICAL CONTRACTOR. COORDINATE WITH PNM.
- PROVIDE AND INSTALL NEW LIGHTING FIXTURE AS SCHEDULED ON LIGHTING FIXTURE SCHEDULE.
- B. PROVIDE METER, CABINETS AND FRAMEWORK AT PHASE 2
  CONSTRUCTION. STUB-UP CONDUIT FOR CONNECTION TO PANEL AND
  CONTROL CABINET. CABINETS AND FRAMEWORK SHALL BE PAINTED A
  TAN/BEIGE COLOR. PRIME AND USE ENAMEL PAINT WITH UV INHIBITOR.
  INSTALL BI-LINGUAL "DANGER-HIGH VOLTAGE" SIGNS. PROVIDE WITH
  LOCKS.
- 9. REFER TO POWER RISER DIAGRAM AND GENERAL NOTES ON SHEET E10.
- 10. THREE 1" CONDUITS WITH LIGHTING CIRCUITS AND CONTROL CONDUCTORS. IF CONTRACTOR ELECTS TO COMBINE CIRCUITS IN RACEWAY TO REDUCE NUMBER OF CONDUIT RUNS, CONDUIT SIZES SHALL BE INCREASED AND CONDUCTORS DERATED PER NEC TABLE FOR CURRENT CARRYING CONDUCTORS. CONDUCTOR SIZES ARE PRESENTLY SIZED FOR VOLTAGE DROP AND DERATION FOR SPECIFIED INSTALLATION.
- 11. 3/4" PVC, SCHEDULE 40 CONDUIT 24" BELOW GRADE WITH 2 #10 CU. THHN AND 1 #10 CU. THHN GROUND.
- 12. 3/4" PVC, SCHEDULE 40 CONDUIT 24" BELOW GRADE WITH 4 #10 CU. THHN AND 1 #10 CU. THHN GROUND.
- 13. UTILIZE #10 CONDUCTORS FOR RUNS OVER ONE HUNDRED AND FIFTY FEET AND UTILIZE #8 CONDUCTORS FOR RUNS OVER TWO HUNDRED FEET.
- COORDINATE ROUTING OF CONDUIT WITH EXISTING CONDITIONS VIA PULLBOX.
- 15. NOT USED.
- 16. 3 #12 CU. THHN AND 1 #10 CU. THHN GROUND SWITCH CONTROL CONDUCTORS IN 3/4" PVC CONDUIT.
- 17. NOT USED.
- 18. NO WORK REQUIRED IN THESE AREAS.
- 19. NOT USED.
- 20. LIGHTING FIXTURES, POLES, PANELS, CONTROL CABINET, FRAMEWORK AND WIRE TO BE INSTALLED AT LATER DATE. (PHASE TWO CONSTRUCTION). PROVIDE POLE BASE, ANCHOR BOLTS, CONDUIT STUBUPS (MARKED/CAPPED) AND ALL CONDUIT WITH TWO PULLCORDS. CAP AND INSTALL WARNING TAPE 6" BELOW GRADE.
- 21. PROVIDE COMPLETE LIGHTING SYSTEM AS INDICATED FOR PHASE ONE AND PHASE TWO CONSTRUCTION.

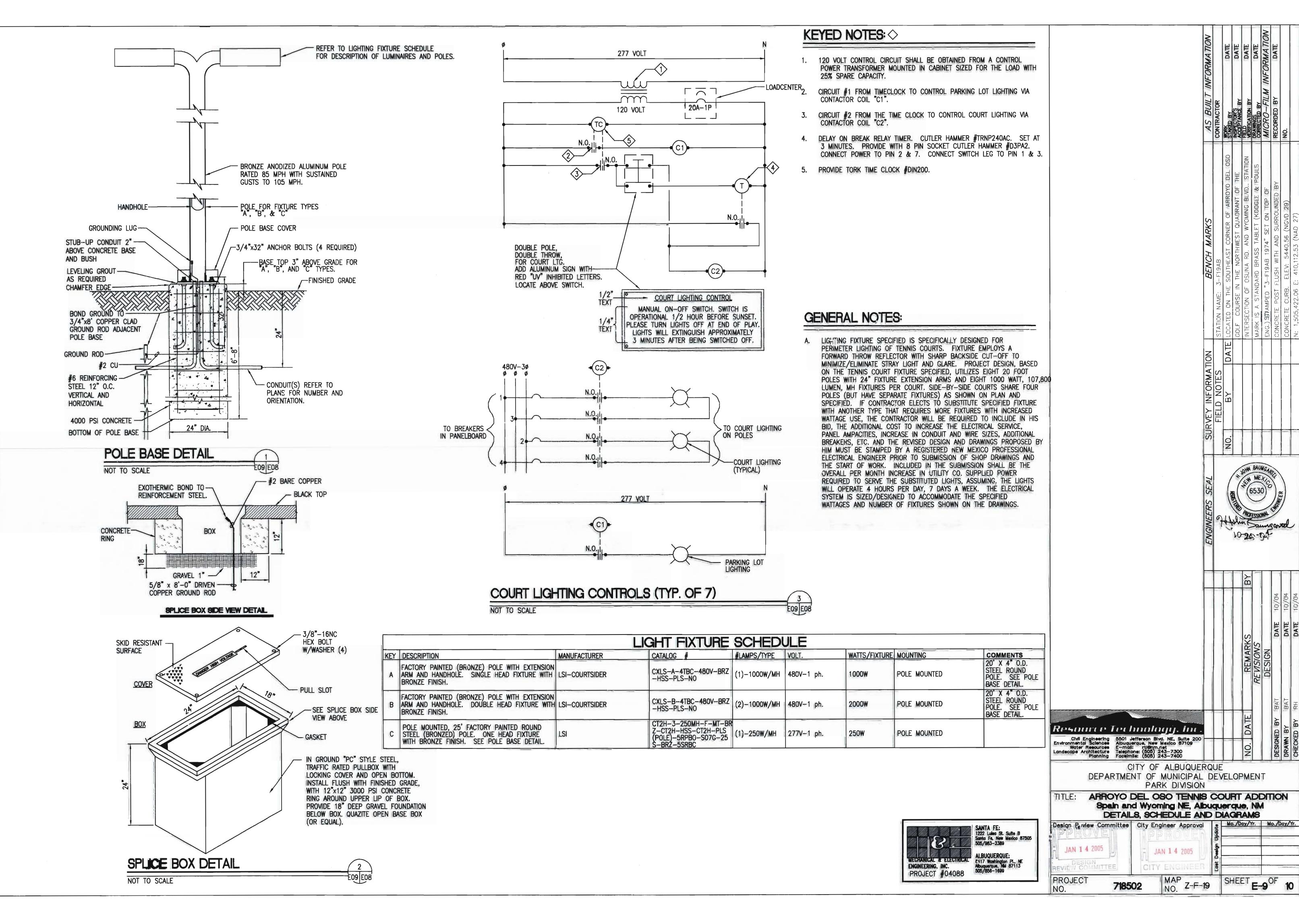
# **GENERAL NOTES:**

A. PROVIDE ALL CUTTING, TRENCHING AND BACKFILL FOR ALL UNDERGROUND CONDUIT INSTALLATION. COORDINATE WITH ALL EXISTING CONDITIONS AND THE CITY OF ALBUQUERQUE—PARK DIVISION.

	ELECTRICAL LEGEND
SYMBOL	DESCRIPTION
□•□ В	DOUBLE HEAD POLE MOUNTED LIGHTING FIXTURE. LETTER DENOTES FIXTURE TYPE.
A OR C	SINGLE HEAD POLE MOUNTED LIGHTING FIXTURE. LETTER DENOTES FIXTURE TYPE.
	CABINET OR PANELBOARD AS NOTED.
	CONDUIT CONCEALED MINIMUM OF 24" BELOW FINISHED GRADE. UNLESS NOTED OTHERWISE.
-1171	CONDUCTORS IN RACEWAY. SIZE AS NOTED. NEUTRAL, HOT, SWITCH AND GROUND CONDUCTORS (LEFT TO RIGHT).
<b>LP−6</b>	HOMERUN WITH PANEL AND CIRCUIT DESIGNATION.
3øOHP	THREE PHASE OVERHEAD PRIMARY







JOHN BAUNGARTE

REMARKS REVISIONS DESIGN

SHEET E-9 OF 10

PARK DIVISION

JAN 1 4 2005

MAP NO. Z-F-19

# KEYED NOTES: PROVIDE AND INSTALL 4" SERVICE CONDUIT PER PNM STANDARD DRAWING DS-10-8.0, UNDERGROUND UP EXISTING UTILITY POLE TO PNM POLE MOUNTED TRANSFORMER AS REQUIRED BY PNM/PNM STANDARD DRAWINGS DS-4-9.5. CONDUIT AND BRANCH CIRCUIT WIRING AS REQUIRED BY LIGHTING CONTROL DIAGRAMS ON SHEET EO9 AND CIRCUITING ON SHEETS EO8 AND PROVIDE NEMA 4X OUTDOOR GASKETED CABINET WITH HINGED COVER

AND BACKBOARD. MOUNT RELAYS ON BACKBOARD. REFER TO

INSTALL THREE DRIVEN 3/4" X 10'-0" COPPER CLAD GROUND RODS ON 10'-

FOR LOCKS. FITTINGS TO BE COMPRESSION TYPE WITH BUSHINGS, LIQUIDTIGHT.

O" ON CENTERS INTERCONNECTED WITH 1 #2 BARE COPPER CONDUCTOR.

5. ALL EXTERIOR ELECTRICAL ENCLOSURES TO BE NEMA 4X WITH PROVISIONS

6. INSTALL THREE PHASE METER ENCLOSURE PER PNM STANDARD

8. PROVIDE AND INSTALL 4" SCHEDULE 80 PVC 48" BELOW GRADE.

7. PROVIDE AND INSTALL 400A-3 PHASE. 480V HEAVY DUTY DISCONNECT

SWITCH IN NEMA 4X ENCLOSURE PER NEC 110.26, WORKING CLEARANCE.

ELBOWS ARE TO BE RIGID GALVANIZED STEEL. CONDUCTORS BY PNM.

FAULT CURRENT.

DRAWING MS-3-8.0(A) & (A1) AND MS-7-1.0.

FUSE AT MANUFACTURER'S RECOMMENDATIONS.

LIGHTING CONTROL DIAGRAMS ON SHEET E09.

USE CADWELD CONNECTIONS.

REFER TO SITE PLAN FOR LOCATION.

- 10. TO PNM PROVIDED TRANSFORMERS. CONTRACTOR TO COORDINATE WORK WITH PNM.
  - 11. 4 #600 COPPER AND 1 #1/0 COPPER GROUND IN 3-1/2" CONDUIT.
  - 12. INSTALL TWO 2-1/2" CONDUIT STUB-OUTS BEYOND PANEL "LP" APPROXIMATELY 200' TO THE WEST FOR FUTURE EXTENSION TO PANELS "LP1 AND "LP2" AND CAP. INSTALL AT 24" BELOW GRADE TO TOP. INSTALL ELECTRICAL WARNING TAPE 6" FROM TOP OF GRADE.
- A. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL WORK IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, PLANS AND ASSOCIATED NOTES. NFPA, NATIONAL ELECTRICAL CODE, STATE & LOCAL CODES, AND IN A WORKMANLIKE MANNER.

GENERAL NOTES:

B. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AT JOB

APPLICABLE TO ALL ELECTRICAL DRAWINGS

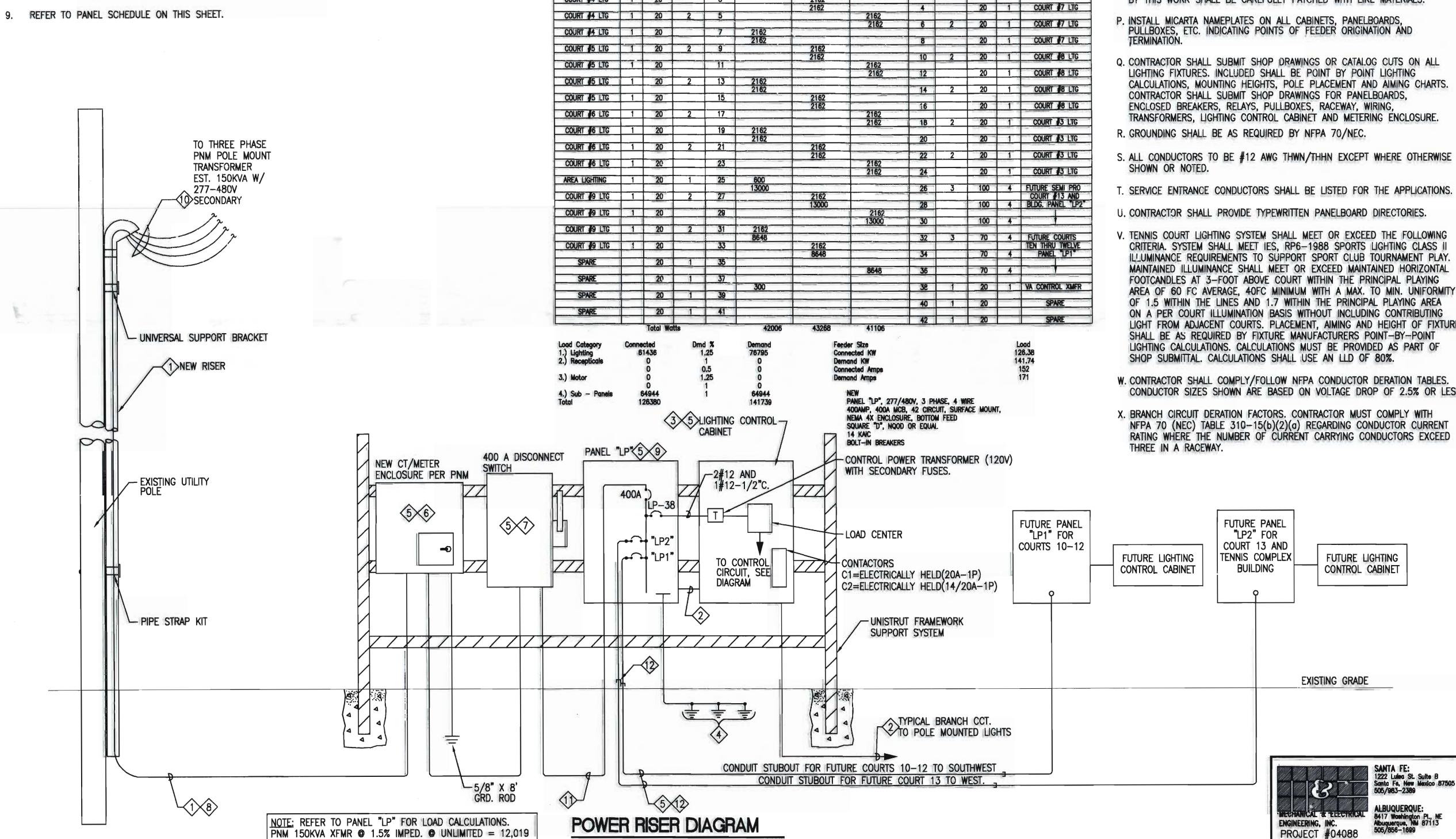
CCT poles Size # Description

2 2 20 1 COURT 7 LTG

- THE CONTRACTOR SHALL INSTALL ALL CONTROLS AND MAKE REQUIRED · CONNECTIONS TO EQUIPMENT.
- D. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COSTS OF ALL PERMITS, TESTS & INSPECTIONS, AND VISIT THE SITE OF WORK BEFORE SUBMITTING BID. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
- E. THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE.
- F. THE CONTRACTOR SHALL PREPARE AND MAINTAIN ON THE JOB SITE A SET OF MARKED UP PRINTS SHOWING ALL CHANGES MADE DURING CONSTRUCTION AND TURN IT OVER TO THE CITY AT THE END OF THE JOB. ALL CHANGES MUST HAVE THE CITY AND ENGINEERS APPROVAL.
- ANY DISCREPANCY BETWEEN MATERIAL DESCRIPTION & CATALOG NO. SHALL G. BE BROUGHT TO THE CITY'S ATTENTION IMMEDIATELY.

H. INTERRUPTION OF ANY	Y ELECTRICAL SERVICES SHALL BE COORDINATED WITH
	14 DAYS PRIOR TO THE INTENDED OUTAGE AND
SHALL BE REQUESTED	IN WRITING WITH A COPY TO THE CITY.

- I. PROVIDE COLOR CODING FOR 277/480V-30-4W AND 120/240V-10-3W, CIRCUITS. MAINTAIN SAME COLOR CODING THROUGHOUT. GENERALLY, CONDUCTORS SHALL BE THHN/THWN. SPLICES OUTDOORS SHALL BE WATERTIGHT.
- J. CONDUIT SHALL BE ROUTED IN A NEAT WORKMANLIKE MANNER.
- K. CONDUIT BEING RUN EXPOSED SHALL BE DONE IN A NEAT WORKMANLIKE MANNER, MAKING ALL RUNS AS STRAIGHT AS POSSIBLE.
- L. ALL METALLIC CONDUIT WHICH COMES IN CONTACT WITH EARTH SHALL BE WRAPPED IN SCOTCH WRAP #51 (HALF-LAPED) OR PLASTIC COATED. SCHEDULE 40 PVC, GRS, AND IMC CONDUIT IS APPROVED FOR UNDERGROUND USE. GRS OR IMC ABOVE GRADE.
- M. ALL PULLBOXES SHALL BE CODE GA. AND MEET THE MINIMUM SIZES AS RECOMMENDED BY N.E.C.
- N. FURNISH AND INSTALL ALL FRAMEWORK/CHANNELS REQUIRED FOR THE SUPPORT OF EQUIPMENT, PRIME AND PAINT IF NOT GALVANIZED.
- O. CONTRACTOR SHALL REPLACE ALL EXISTING SURFACES (SIDEWALKS, PAVEMENT, ASPHALT, CURBS/GUTTERS, ETC.) REMOVED/DISTURBED BY NEW WORK REMOVALS, ETC., WITH NEW MATCHING MATERIALS OF THE SAME TYPE. THICKNESS. ETC. IN AREAS OF THE TENNIS COURTS AND WALKWAYS. AREAS IMMEDIATELY AROUND COURTS SHALL BE SAW CUT AND AUGERS USED TO INSTALL POLE BASES. TENNIS COURT PLAYING SURFACES DISRUPTED BY THIS WORK SHALL BE CAREFULLY PATCHED WITH LIKE MATERIALS.
- LIGHTING FIXTURES. INCLUDED SHALL BE POINT BY POINT LIGHTING CALCULATIONS, MOUNTING HEIGHTS, POLE PLACEMENT AND AIMING CHARTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR PANELBOARDS, ENCLOSED BREAKERS, RELAYS, PULLBOXES, RACEWAY, WIRING, TRANSFORMERS, LIGHTING CONTROL CABINET AND METERING ENCLOSURE.
- SHOWN OR NOTED.
- r. Service entrance conductors shall be listed for the applications.
- CRITERIA. SYSTEM SHALL MEET IES, RP6-1988 SPORTS LIGHTING CLASS II ILLUMINANCE REQUIREMENTS TO SUPPORT SPORT CLUB TOURNAMENT PLAY. MAINTAINED ILLUMINANCE SHALL MEET OR EXCEED MAINTAINED HORIZONTAL AREA OF 60 FC AVERAGE, 40FC MINIMUM WITH A MAX. TO MIN. UNIFORMITY OF 1.5 WITHIN THE LINES AND 1.7 WITHIN THE PRINCIPAL PLAYING AREA ON A PER COURT ILLUMINATION BASIS WITHOUT INCLUDING CONTRIBUTING LIGHT FROM ADJACENT COURTS, PLACEMENT, AIMING AND HEIGHT OF FIXTURES SHALL BE AS REQUIRED BY FIXTURE MANUFACTURERS POINT-BY-POINT LIGHTING CALCULATIONS. CALCULATIONS MUST BE PROVIDED AS PART OF
- CONDUCTOR SIZES SHOWN ARE BASED ON VOLTAGE DROP OF 2.5% OR LESS.
- NFPA 70 (NEC) TABLE 310-15(b)(2)(a) REGARDING CONDUCTOR CURRENT RATING WHERE THE NUMBER OF CURRENT CARRYING CONDUCTORS EXCEED



NOT TO SCALE

REMARK: EVISIONS DESIGN Resource Technology, Inc Civil Engineering
Environmental Sciences
Water Resources
Landscape Architecture
Planning

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Facelimile: (505) 243—7400 CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT PARK DIVISION ARROYO DEL OSO TENNIS COURT ADDITION Spain and Wyoming NE, Albuquerque, NM PANEL SCHEDULE AND POWER RISER DIAGRAM Mo./Day/Yr. Mo./Day/Yr. Design Review Committee | City Engineer Approval JAN 1 4 2005 JAN 1 4 2005 PROJECT TE-10<sup>OF</sup>