

Construction > RecordDrawingInventoryStatus > Signal System Interconnection Expansion

### RecordDrawingInventoryStatus: Signal Systen Interconnection Expansion

|                  | X Delete Item   Alert Me      |           |  |   |
|------------------|-------------------------------|-----------|--|---|
| Security         | Unrestricted                  |           | ***************************************  | *************************************** |
| ProjectTitle     | Signal Systen Interconnection | Expansion | in and a management and a special recommendation of the special specia |   |
| Project#         | 593103                        |           |  | *************************************** |
| AtlasZone        | Var                           |           |  |   |
| DrawingDateStamp | 1/1/2007                      |           |  |   |
| Series           |                               |           |  |   |
| NumberOfSheets   | 73                            |           |  |   |

Created at 1/17/2008 2:55 PM by Jaramillo, David Last modified at 1/17/2008 2:55 PM by Jaramillo, David

# JOURNAL CENTER 2

CITY OF ALBUQUERQUE

## LANDSCAPE SITE IMPROVEMENTS

### INDEX

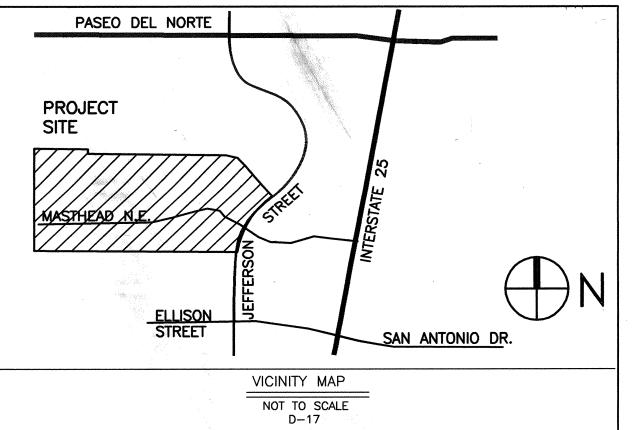
| SHEET | DESCRIPTION  |
|-------|--|
| 1     | TITLE SHEET  |
| 2-6   | CONSTRUCTION PLANS                                     |
| 7-11  | PLANTING PLANS   |
| 12-16 | IRRIGATION PLANS                                       |
| 17-19 | CONSTRUCTION DETAILS                                   |
| 20-21 | IRRIGATION DETAILS                                     |
| 22    | SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS       |
| 23    | TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF MUTCD) |
|       |  |

#### **CONSTRUCTION NOTES:**

- 1. WHEN ABUTTING NEW CURB AND GUTTER TO EXISTING PAVEMENT, 6. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND A 1' WIDE SECTION OF EXISTING PAVEMENT ADJACENT TO THE CURB AND GUTTER SHALL BE SAWCUT, REMOVED, AND REPLACED AS PER THE STANDARD SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS. RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
- 5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- 5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILTIY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES. " TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- 8. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
  - 9. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF WAY.
  - ( 10. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, TOPSOIL DISTURBANCE AND EXCAVATION PERMITS, ETC.)

- 11. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- 12. ALL PERMANENT PAVEMENT MARKING AND TRAFFIC SIGNING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR PER PLAN.
- 13. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- 14. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- 15. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING-OF EACH DAY.
- 16. ALL SAWCUT PAVEMENT SHALL HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.



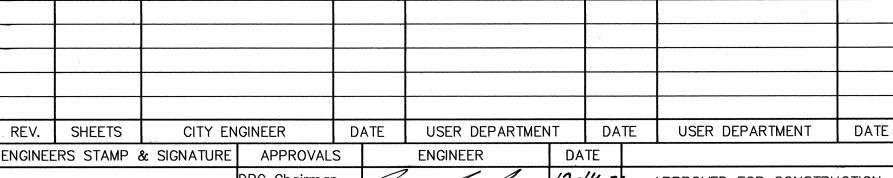


NOTICE TO CONTRACTORS

- 1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE No.6
- 2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE 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
- 4. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- 5. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS
- 6. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE (7) DAYS PRIOR TO STAKTING WORK IN STREET THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DIS-TURBED 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 COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THE PROJECT LIMITS NOT SHOWN ON THE PLANS THAT IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT DESIGNER'S EXPENSE.
- 7. CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY OF EXISTING CITY FACILITIES. ANY DAMAGED ITEMS, SHALL BE REPAIRED OR REPLACED IN KIND, AS DETERMINED BY THE OWNER'S REPRESENTATIVE. REPLACEMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE, AS PER C.O.A. SPECS.
- 8. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

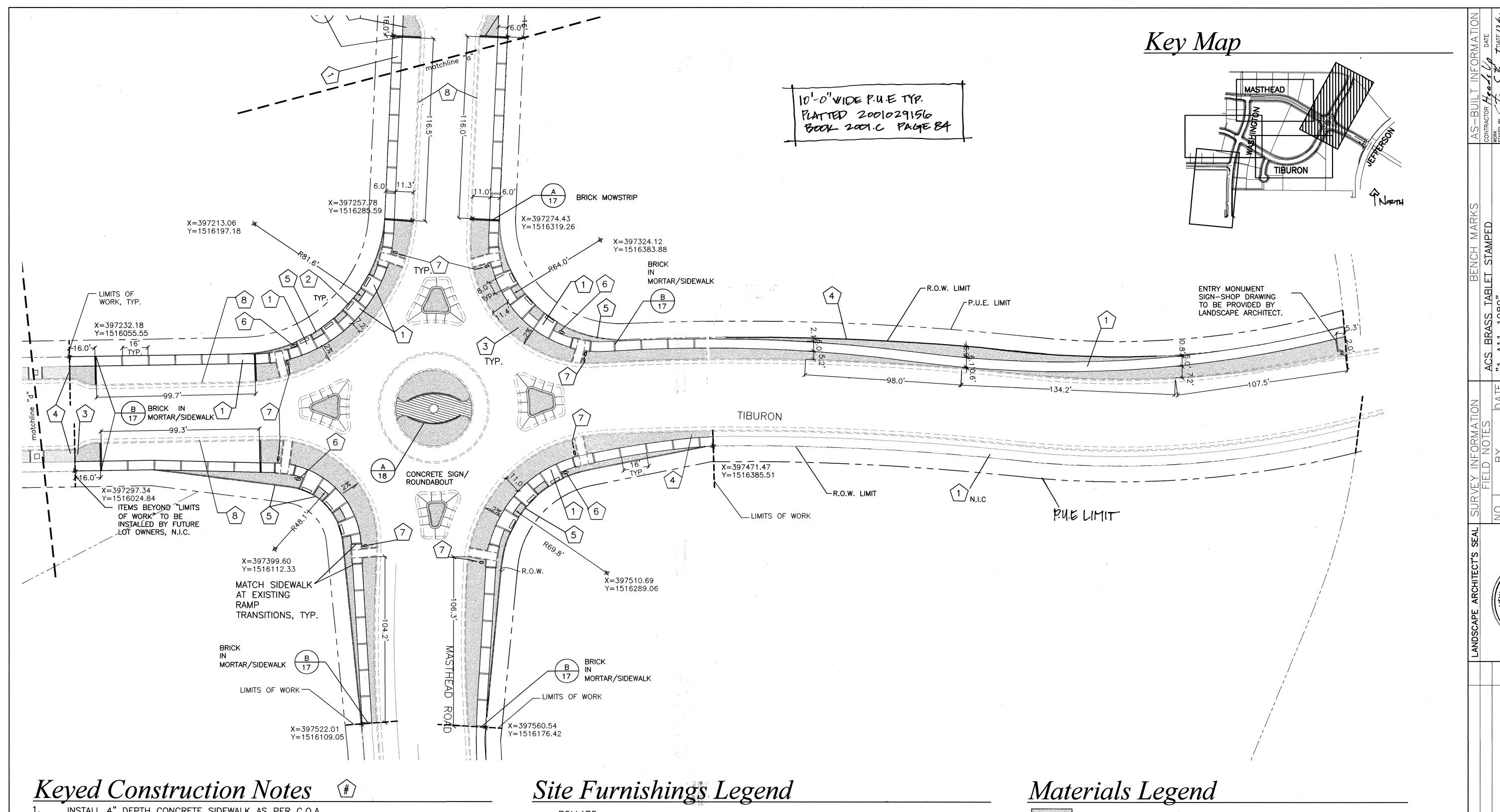
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED
- STREET USE. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY
- ENGINEER. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS CONSTRUCTED.
- IT IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL ─ BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER. ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.



southwest

PLANNING

12-14-01 ORC Chairman APPROVED FOR CONSTRUCTION Puls Holyde Transportation any () husinsk - 12-13-20 Nater/Wastewater ydrology Parks Const. Magmt. 12-14-0 CITY PROJECT NO. SHEET OF 12.5.01 6517.82



- 1. INSTALL 4" DEPTH CONCRETE SIDEWALK AS PER C.O.A. STD. DWG #2720. FINISH TO BE BROOM FINISH.
- 2. INSTALL BENCH AS PER MANUFACTURER'S RECOMMENDATIONS. SEE SITE FURNISHINGS LEGEND.
- 3 INSTALL 3" DEPTH SANTA ANA TAN CRUSHER FINES MULCH.
- 4. INSTALL RYERSON STEEL EDGER AT R.O.W. LIMITS AND LIMITS OF WORK.
- 5. INSTALL CONCRETE MOWSTRIP AS PER C.O.A. STD DWG #2726.
- 6. INSTALL LITTER BIN AS PER MANUFACTURER'S RECOMMENDATIONS. SEE SITE FURNISHINGS LEGEND.
- 7. INSTALL BOLLARD AS PER MANUFACTURER'S RECOMMENDATIONS. SEE SITE FURNISHINGS LEGEND.
- 8. INSTALL WATERPROOFING ALONG CURB AS PER C.O.A STD DWG #2930.

- O BOLLARD—
  ARCUS MODEL #5141999 FIXED BOLLARD WITH
  REFLECTOR. COLOR: WHITE ALUMINUM. AS
  MANUFACTURED BY ERLAU AG, CONTACT: OUTER SPACE
  LANDSCAPE FURNISHINGS 1-800-338-2499
- VASURA MODEL #60 O-D 60 LITER STEEL LITTER BIN, WITH COVER. COLOR: WHITE ALUMINUM, AS MANUFACTURED BY ERLAU AG, CONTACT: CONTACT: OUTER SPACE LANDSCAPE FURNISHINGS 1-800-338-2499
- BENCHAVENIDA MODEL #51572 1800 MM BENCH WITH BACK
  AND ARMRESTS, FIXED INSTALLATION. COLOR: WHITE
  ALUMINUM, AS MANUFACTURED BY ERLAU AG, CONTACT:
  CONTACT: OUTER SPACE LANDSCAPE FURNISHINGS
  1-800-338-2499

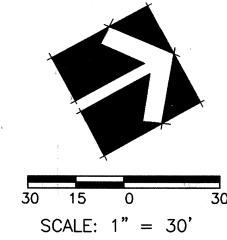
1924 mare



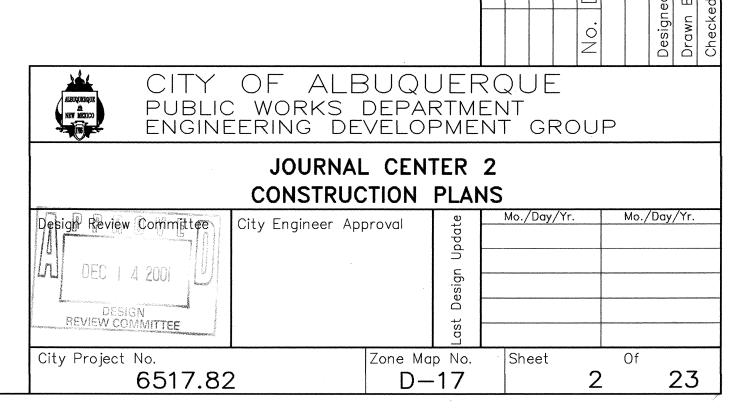
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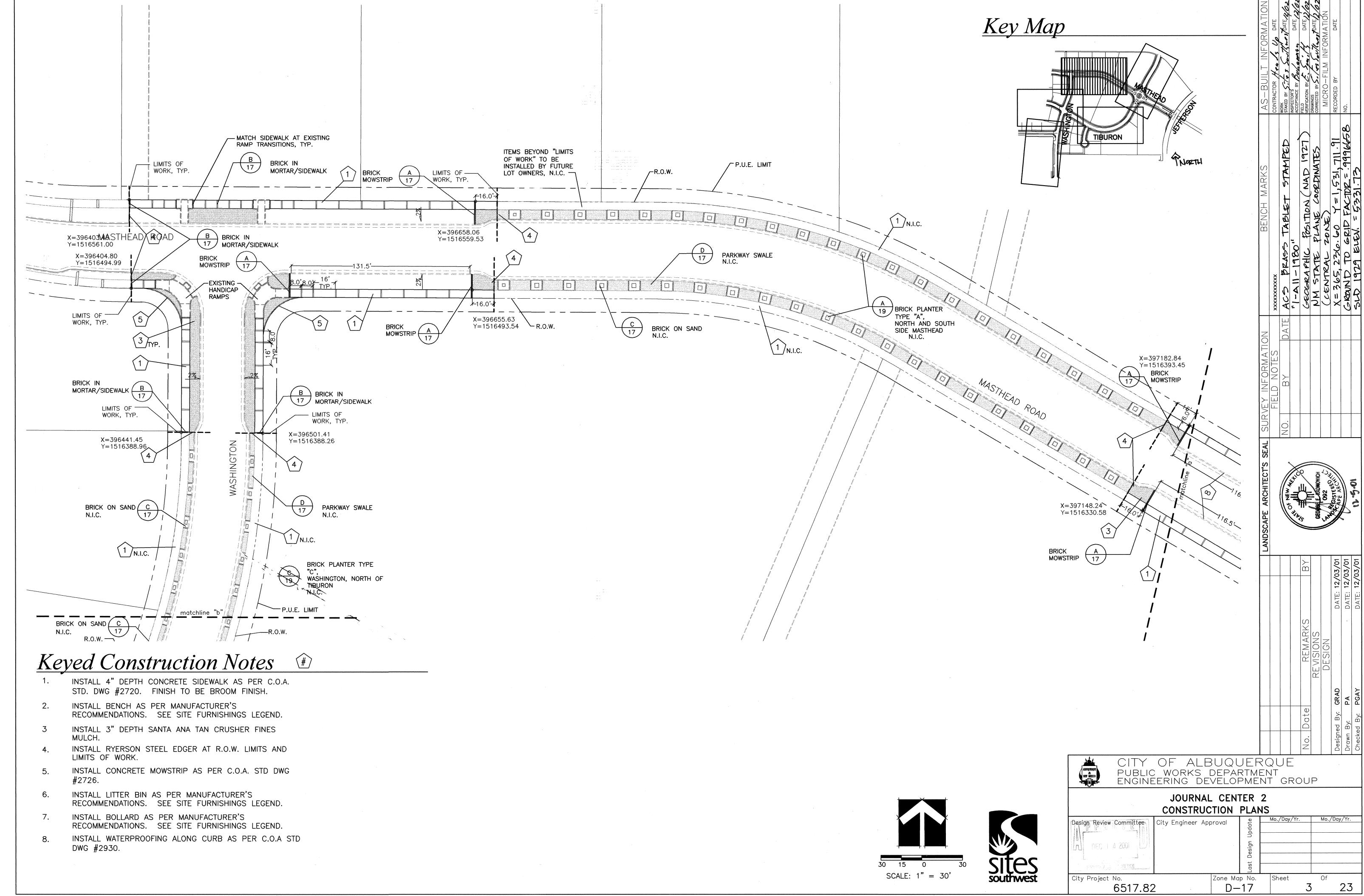


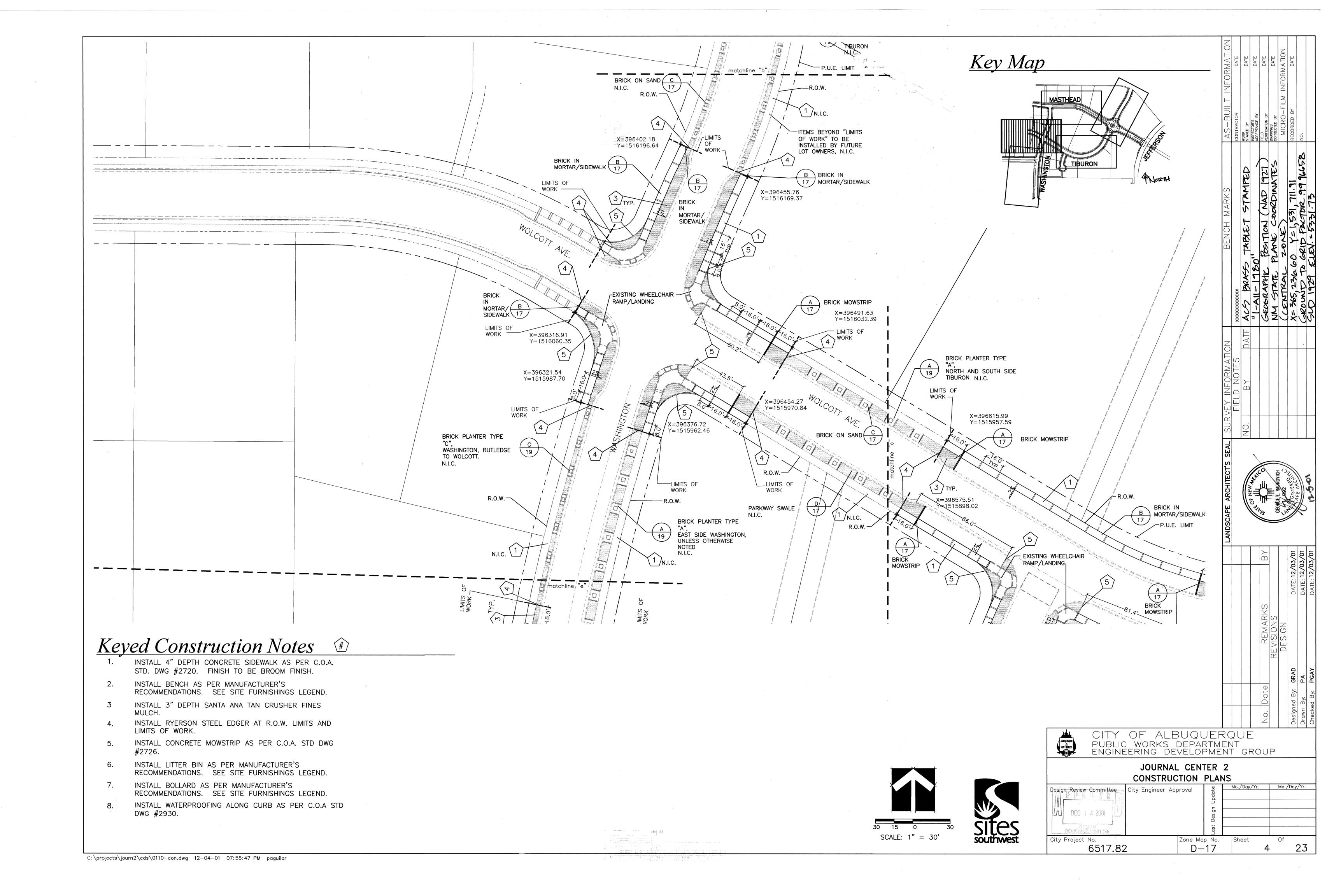
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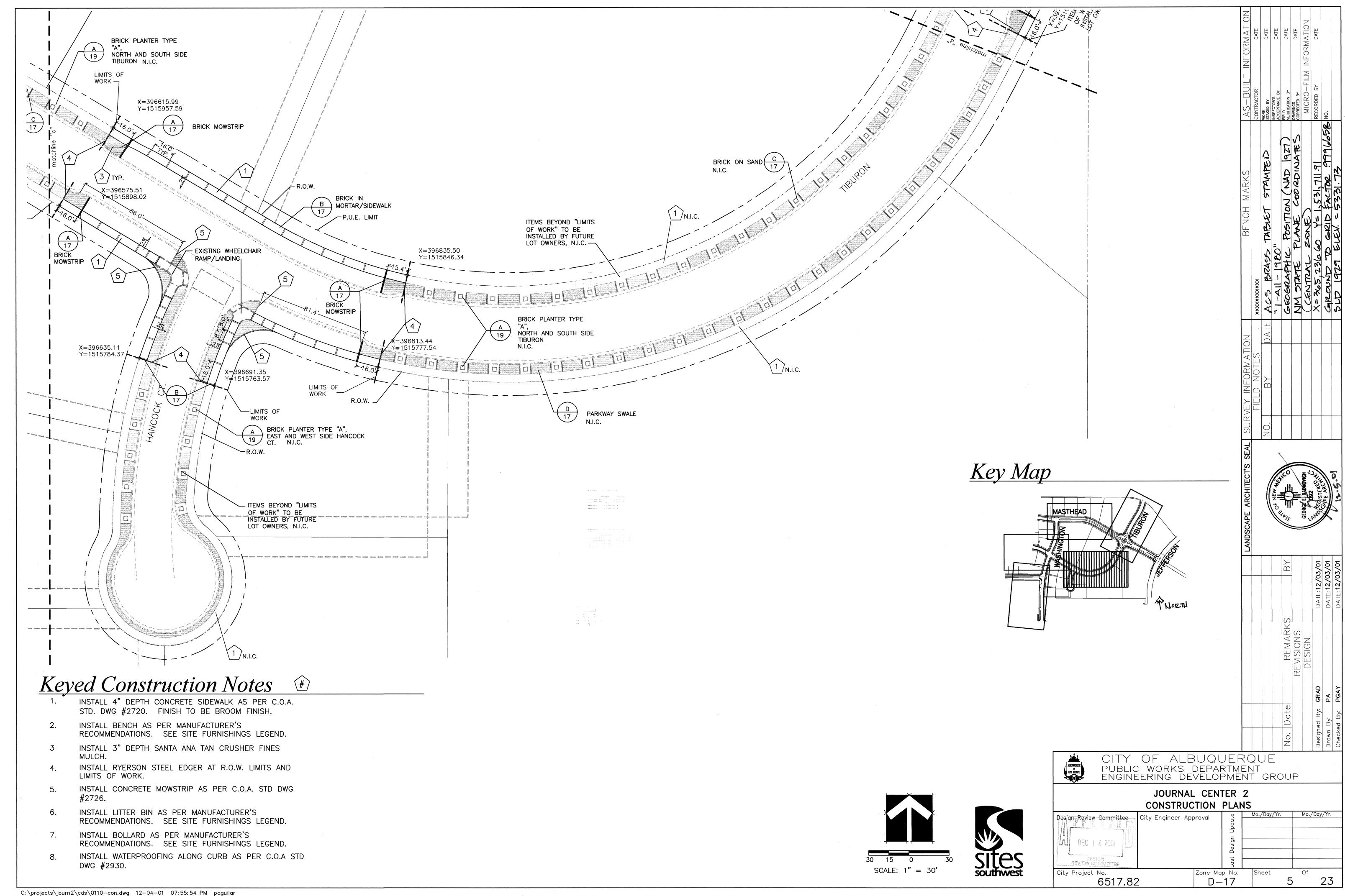


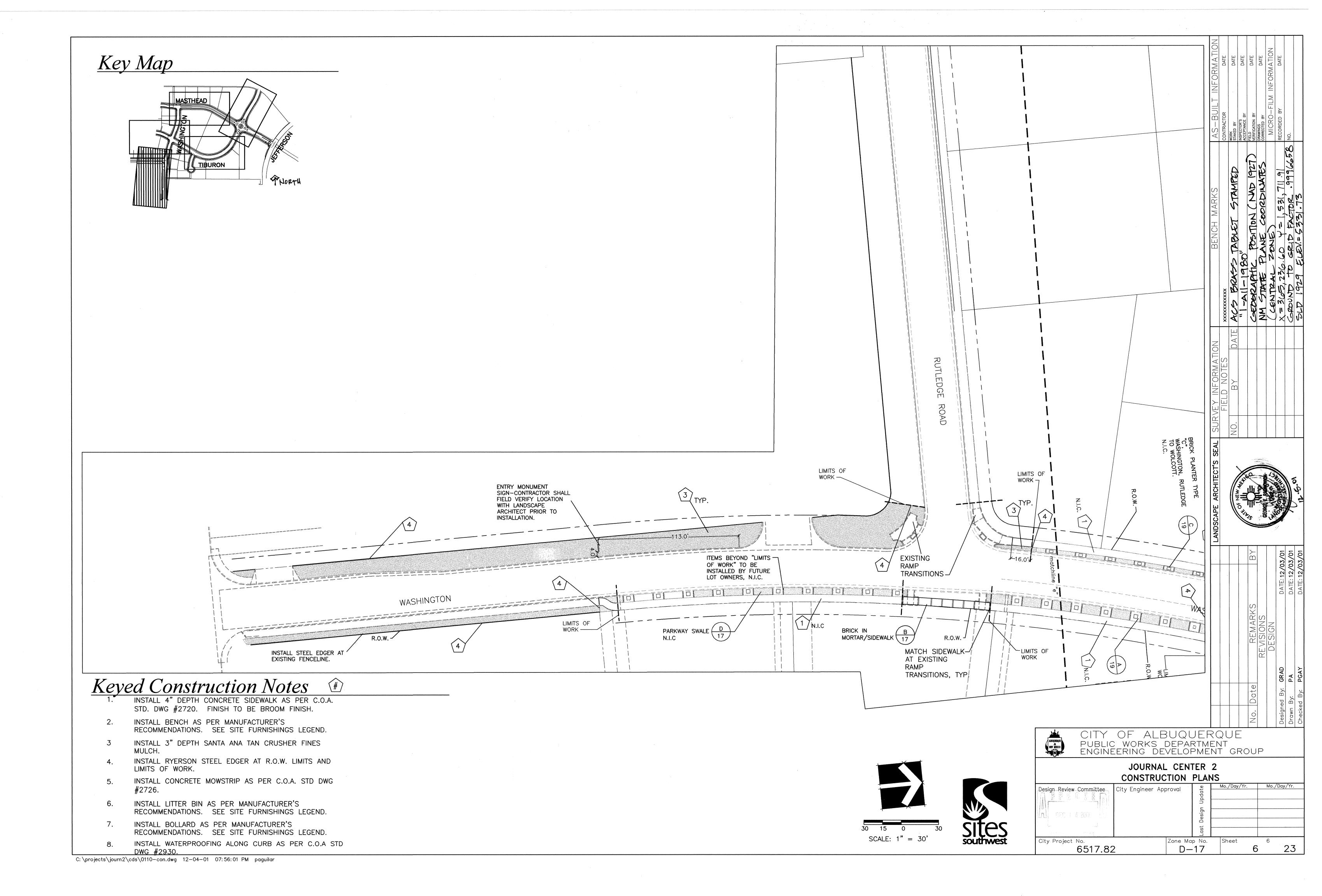


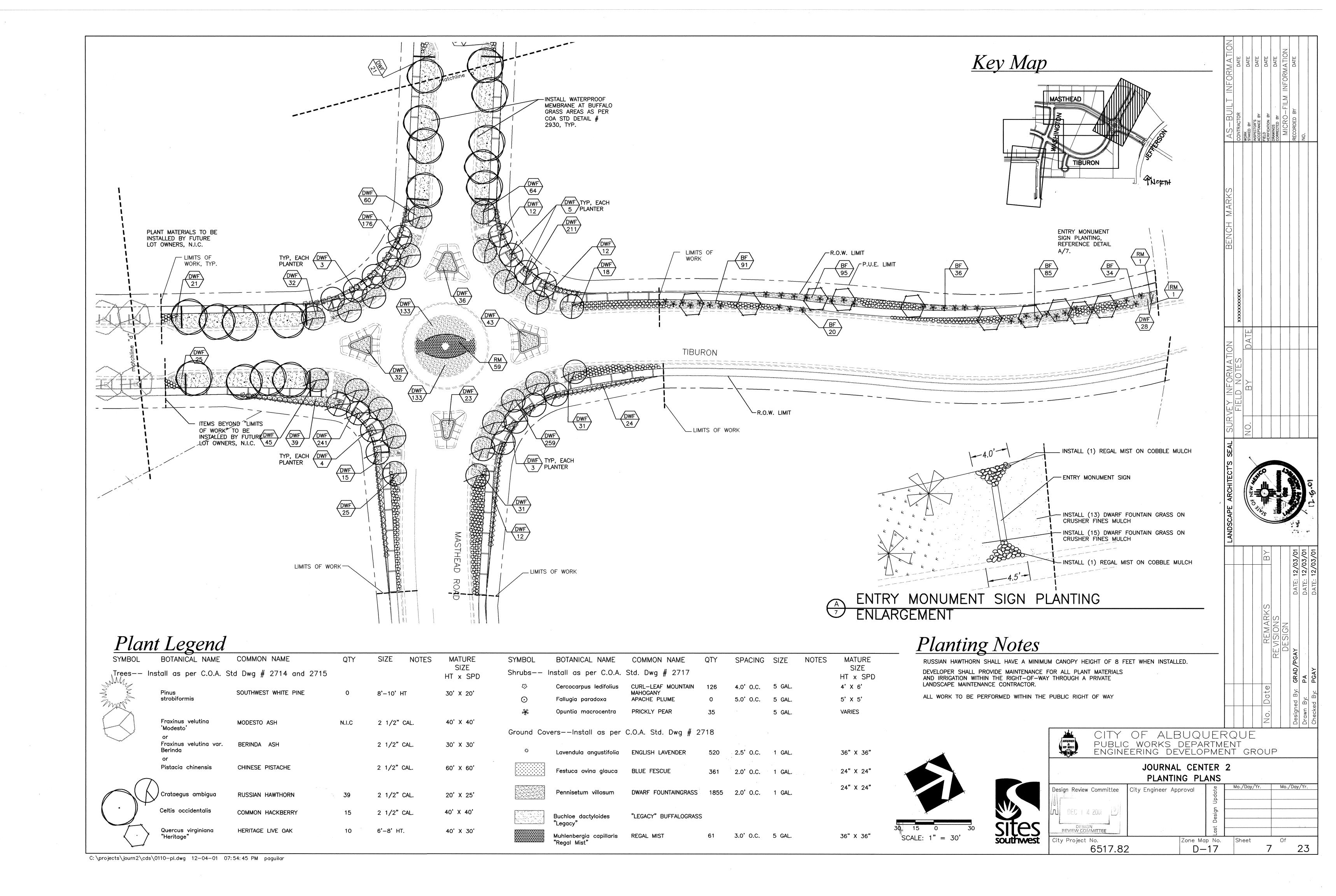


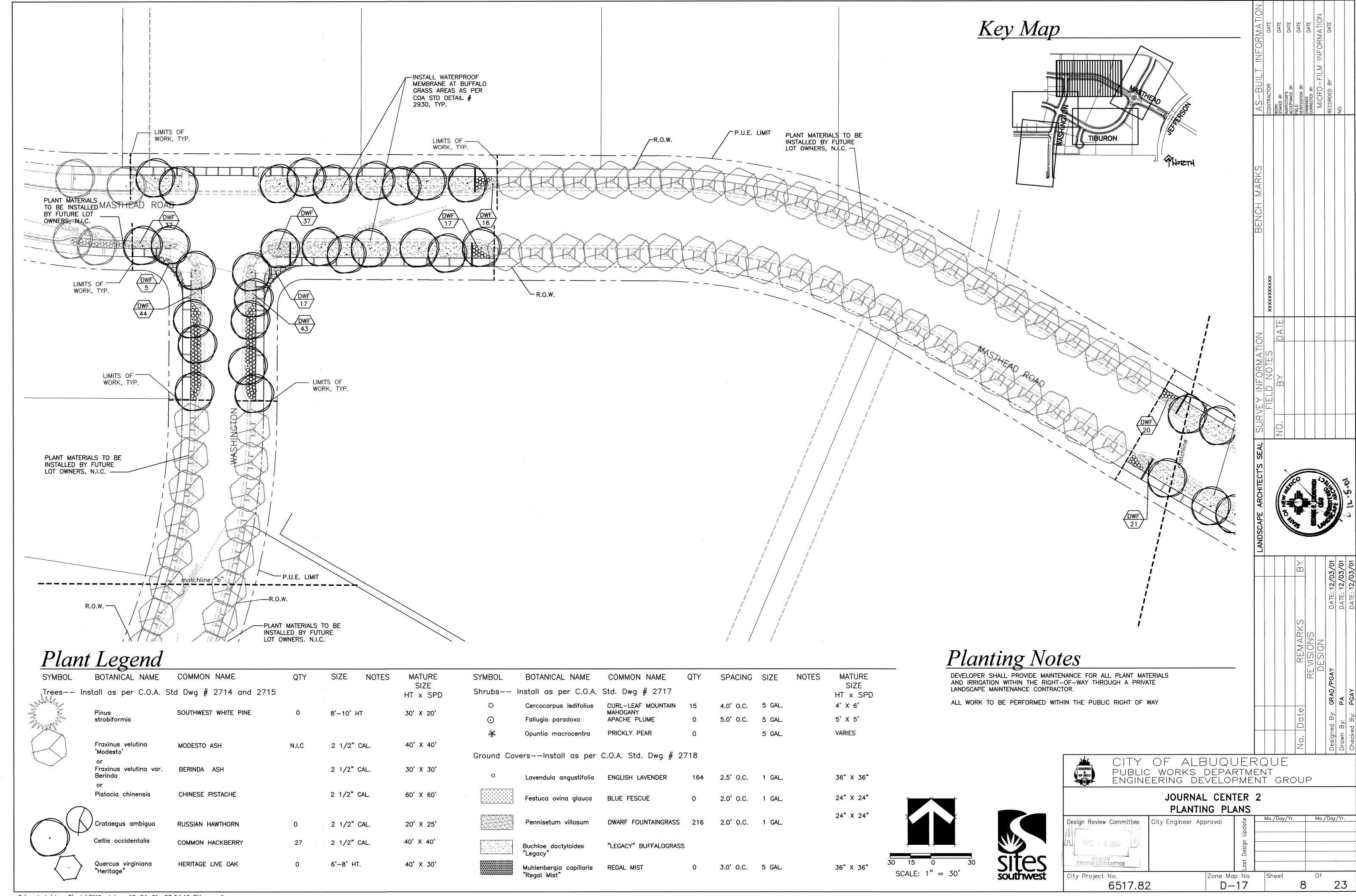


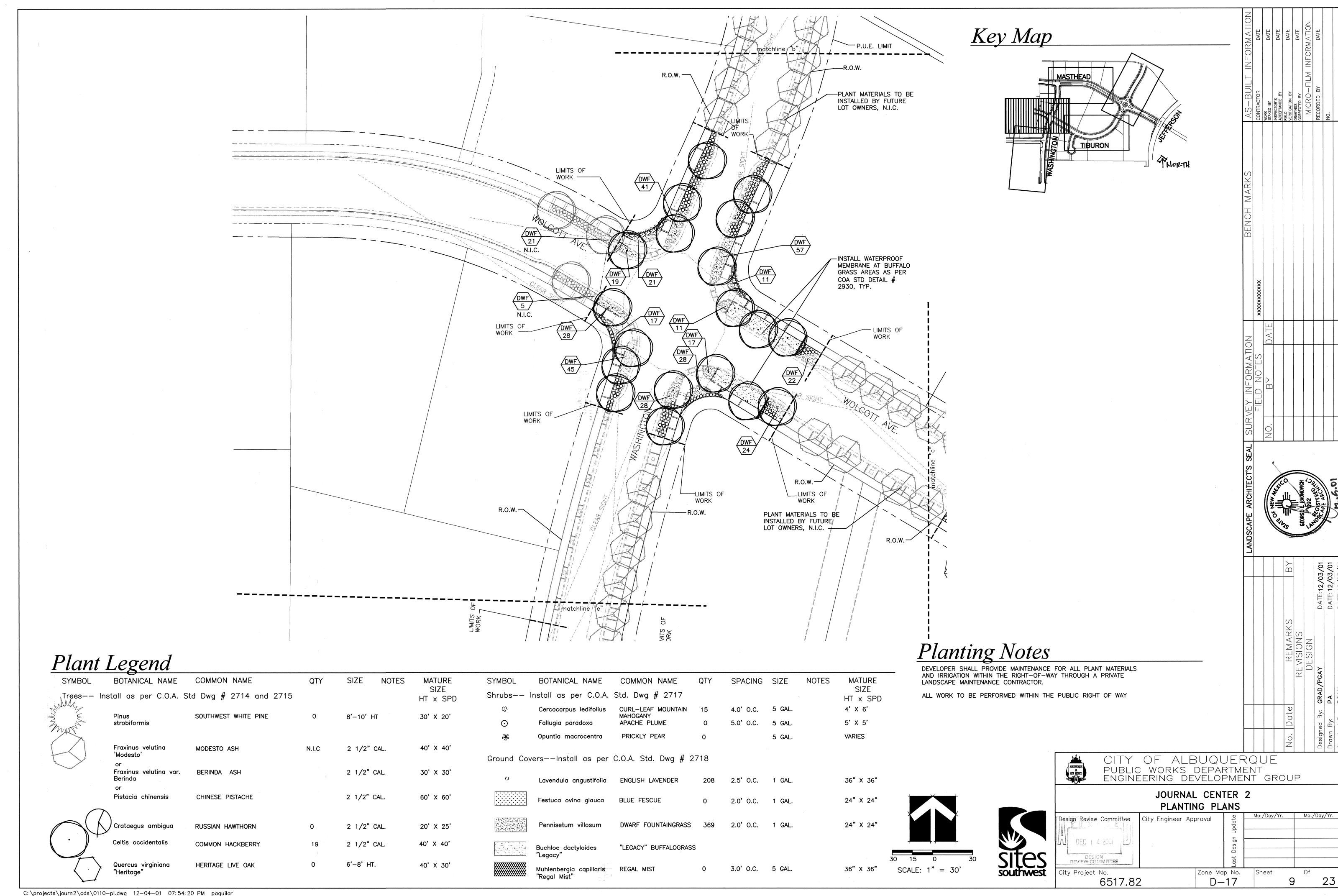


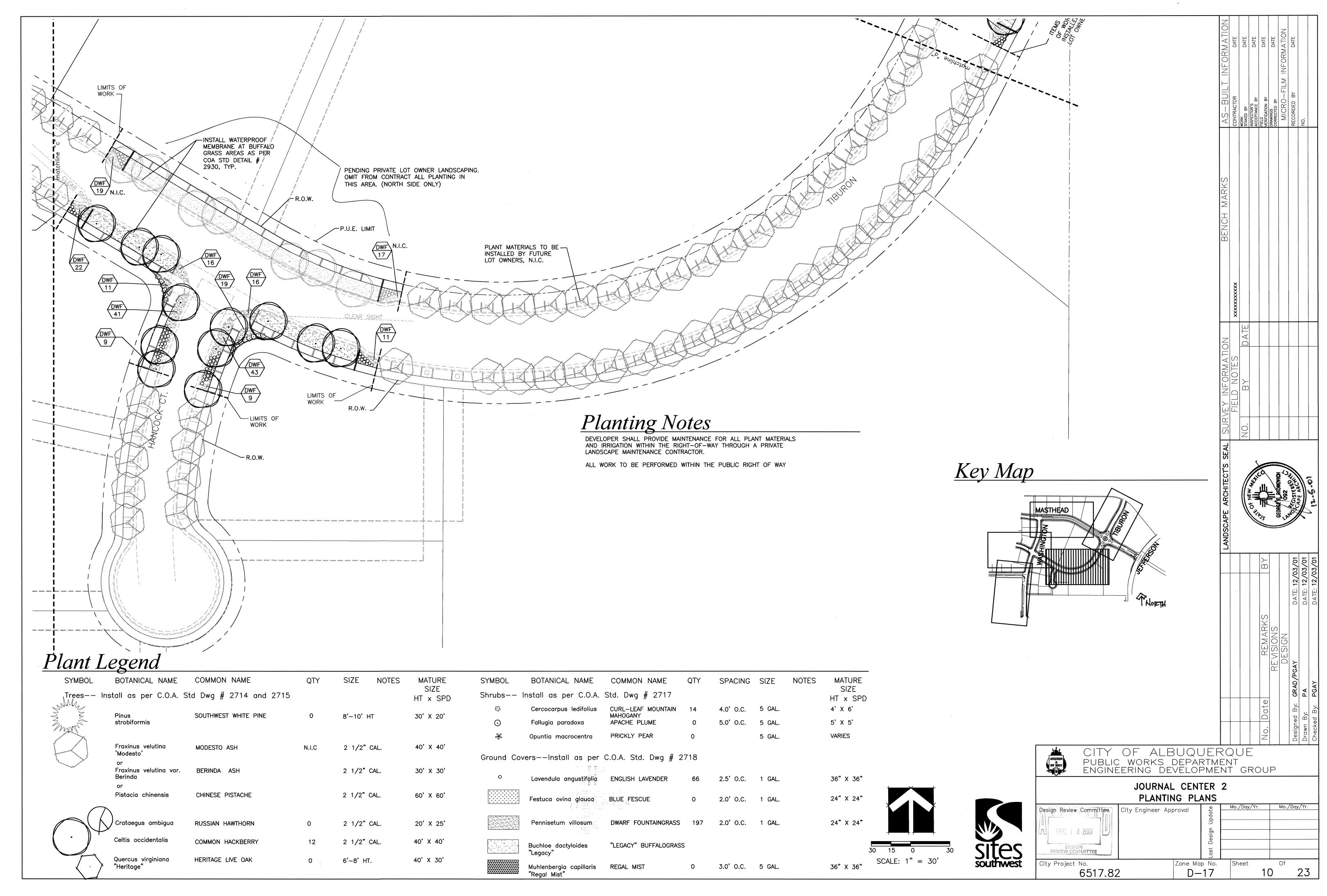












#### Key Map Planting Notes DEVELOPER SHALL PROVIDE MAINTENANCE FOR ALL PLANT MATERIALS AND IRRIGATION WITHIN THE RIGHT-OF-WAY THROUGH A PRIVATE LANDSCAPE MAINTENANCE CONTRACTOR. ALL WORK TO BE PERFORMED WITHIN THE PUBLIC RIGHT OF WAY LIMITS OF LIMITS OF WORK -PLANT MATERIALS TO BE INSTALLED BY FUTURE LOT OWNERS, N.I.C. — BF 23 BF 44 BF 82 $\left\langle \frac{\mathsf{RM}}{2} \right\rangle$ ENTRY MONUMENT SIGN — PLANTING, REFERENCE DETAIL A/7. WASHINGTON BF 10 NSTALL WATERPROOF MEMBRANE AT BUFFALO GRASS AREAS AS PER COA STD DETAIL # 2930, TYP. R.O.W. Plant Legend BOTANICAL NAME COMMON NAME SPACING SIZE MATURE SIZE NOTES MATURE SYMBOL SYMBOL BOTANICAL NAME COMMON NAME SIZE SIZE $_{\rm h}$ Trees-- Install as per C.O.A. Std Dwg # 2714 and 2715 Shrubs—— Install as per C.O.A. Std. Dwg # 2717 HT x SPD HT x SPD CURL-LEAF MOUNTAIN MAHOGANY 4' X 6' 4.0' O.C. 5 GAL. SOUTHWEST WHITE PINE 30' X 20' Pinus 5' X 5' APACHE PLUME strobiformis 5.0' O.C. 5 GAL. **VARIES** PRICKLY PEAR 5 GAL. Opuntia macrocentra Fraxinus velutina 2 1/2" CAL. 40' X 40' MODESTO ASH 'Modesto' Ground Covers——Install as per C.O.A. Std. Dwg # 2718 CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP 2 1/2" CAL. 30' X 30' Fraxinus velutina var. Berinda 36" X 36" Lavendula angustifolia ENGLISH LAVENDER 2.5' O.C. 1 GAL. JOURNAL CENTER 2 2 1/2" CAL. 60' X 60' Pistacia chinensis CHINESE PISTACHE 24" X 24" 2.0' O.C. 1 GAL. PLANTING PLANS 24" X 24" City Engineer Approval Design Review Committee 2.0' O.C. 1 GAL. DWARF FOUNTAINGRASS Pennisetum villosum / Crataegus ambigua 2 1/2" CAL. 20' X 25' 40' X 40' Celtis occidentalis 2 1/2" CAL. COMMON HACKBERRY "LEGACY" BUFFALOGRASS Buchloe dactyloides SITES

3.0' O.C. 5 GAL.

36" X 36"

SCALE: 1" = 30'

City Project No.

6517.82

Zone Map No.

D - 17

Sheet

23

Quercus virginiana

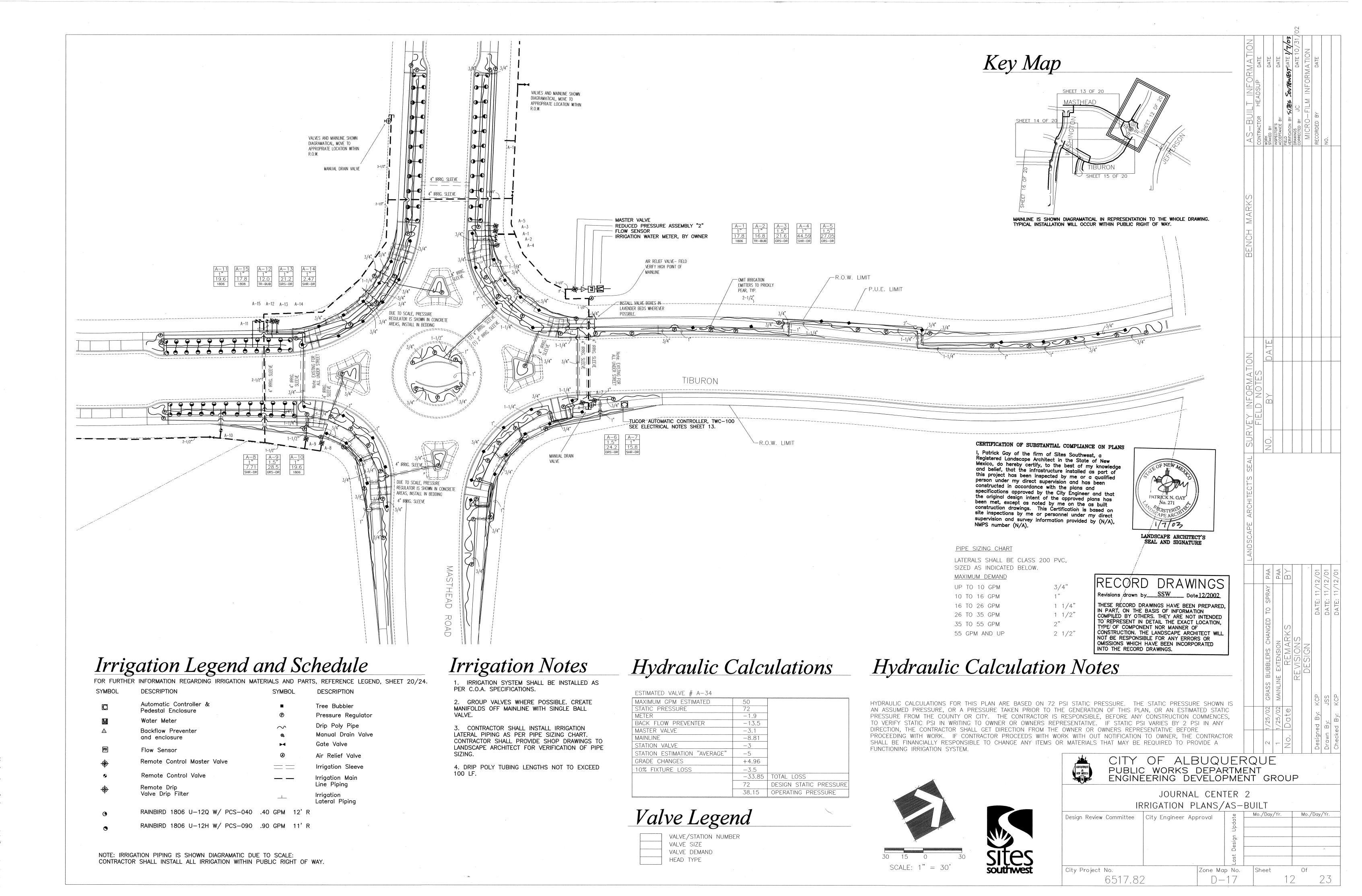
"Heritage"

HERITAGE LIVE OAK

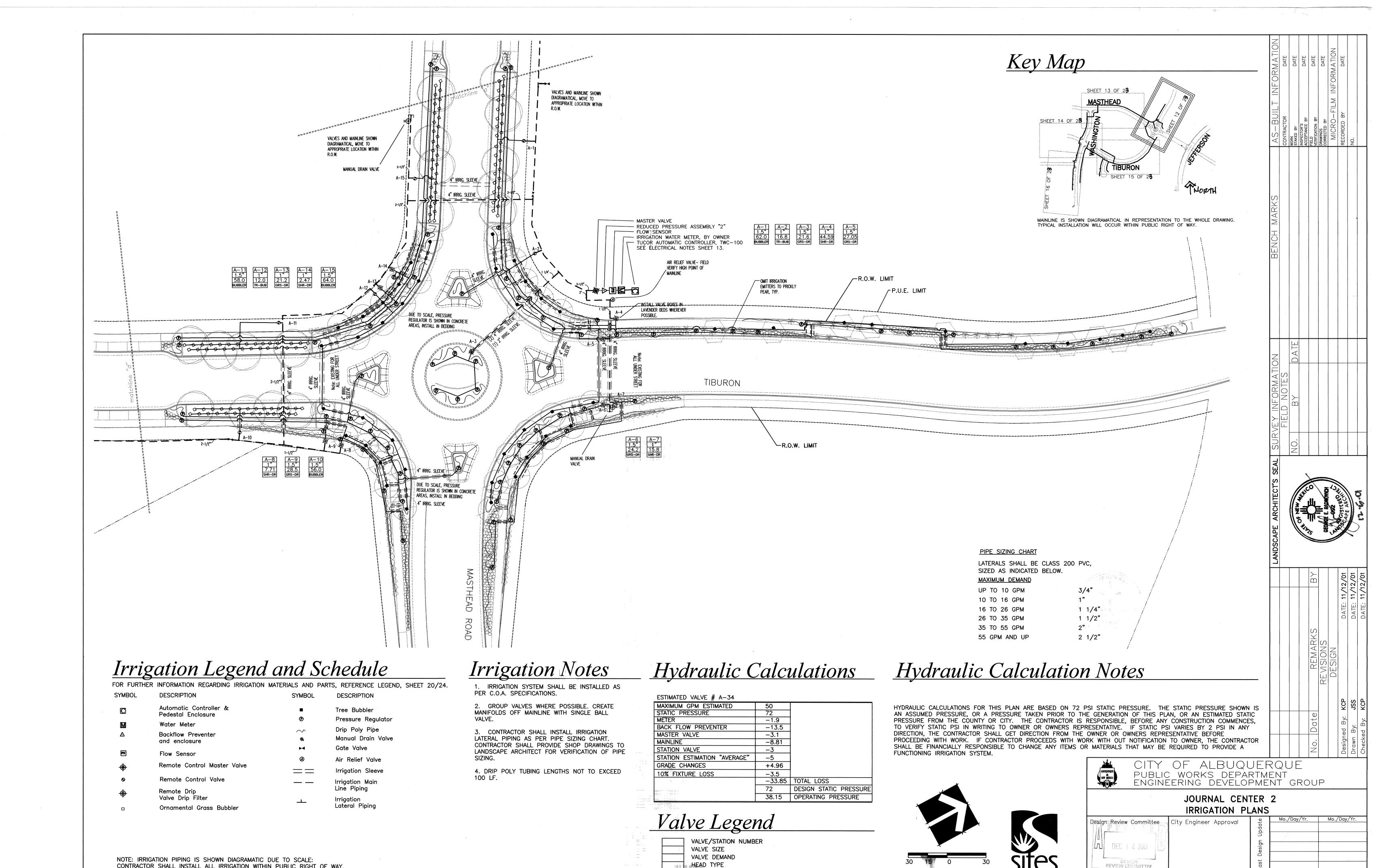
6'-8' HT.

40' X 30'

"Regal Mist"



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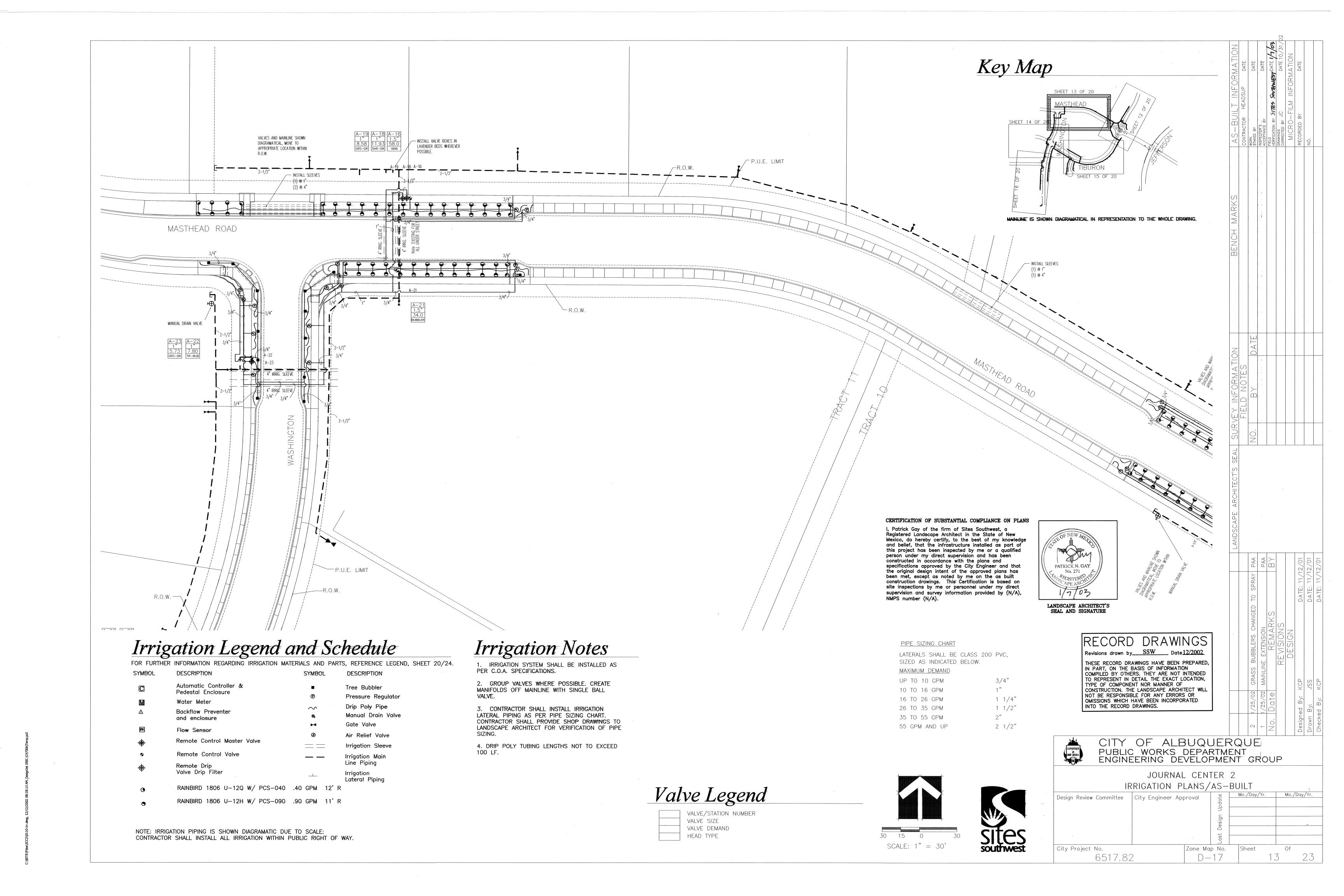
HEAD TYPE

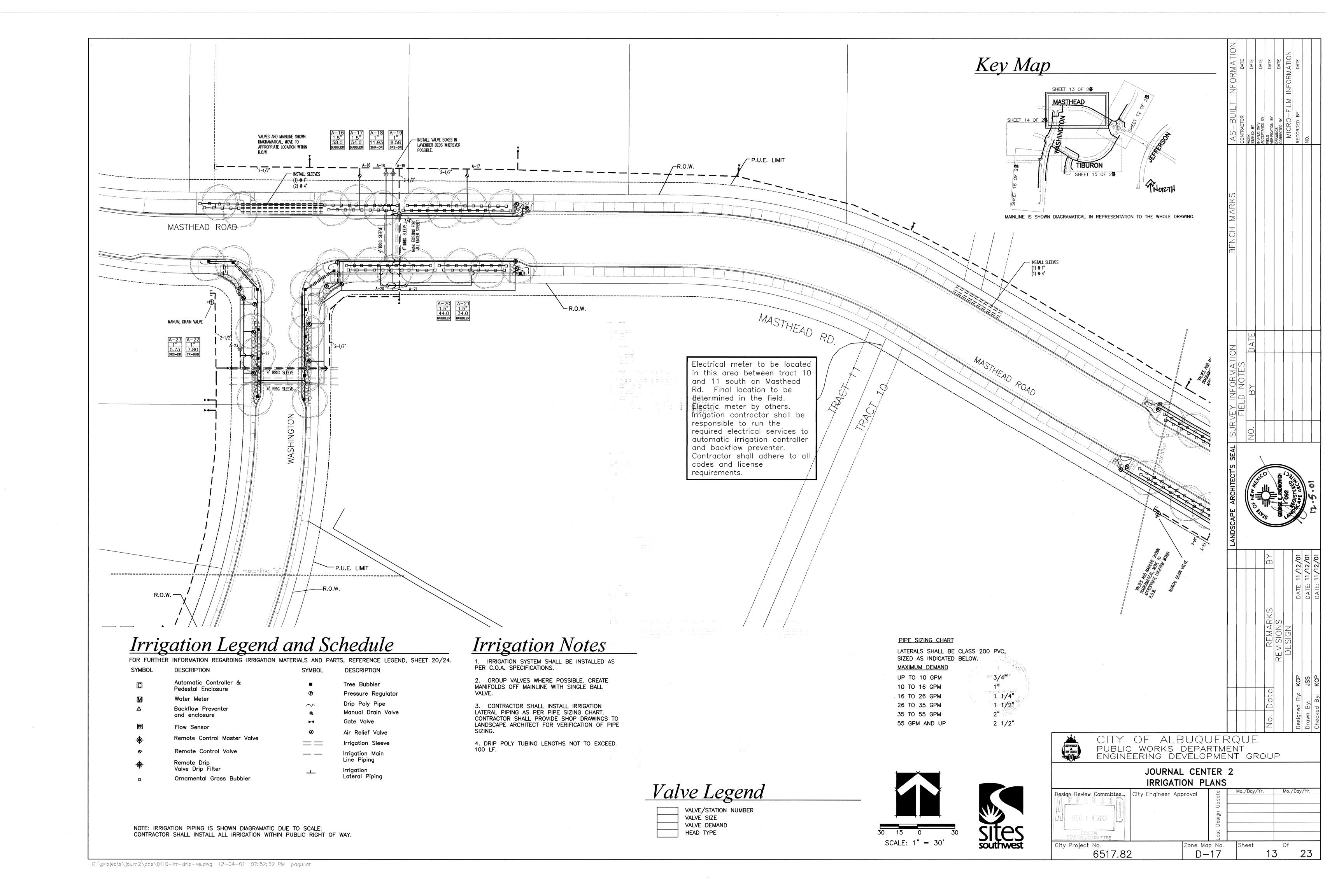
City Project No.

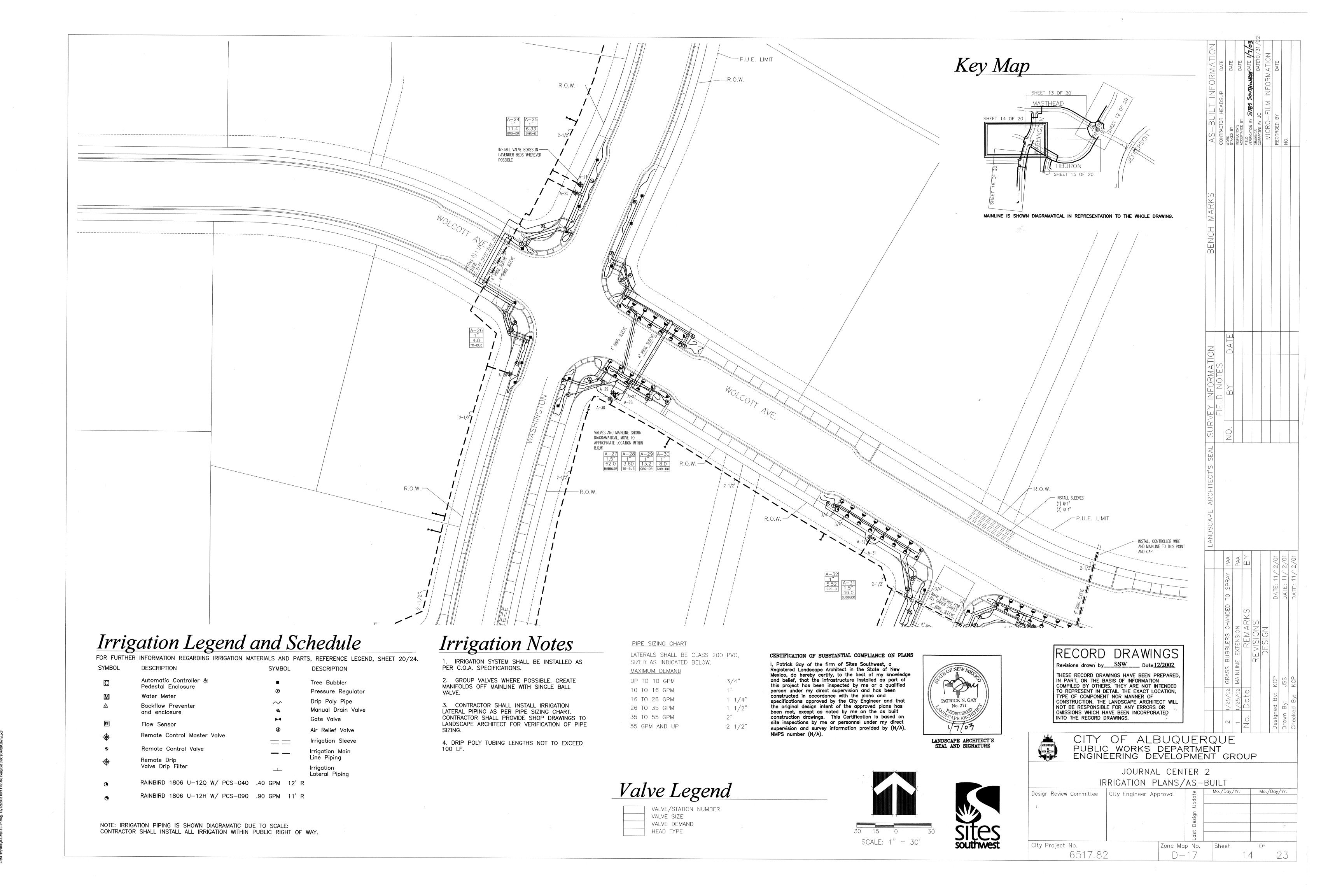
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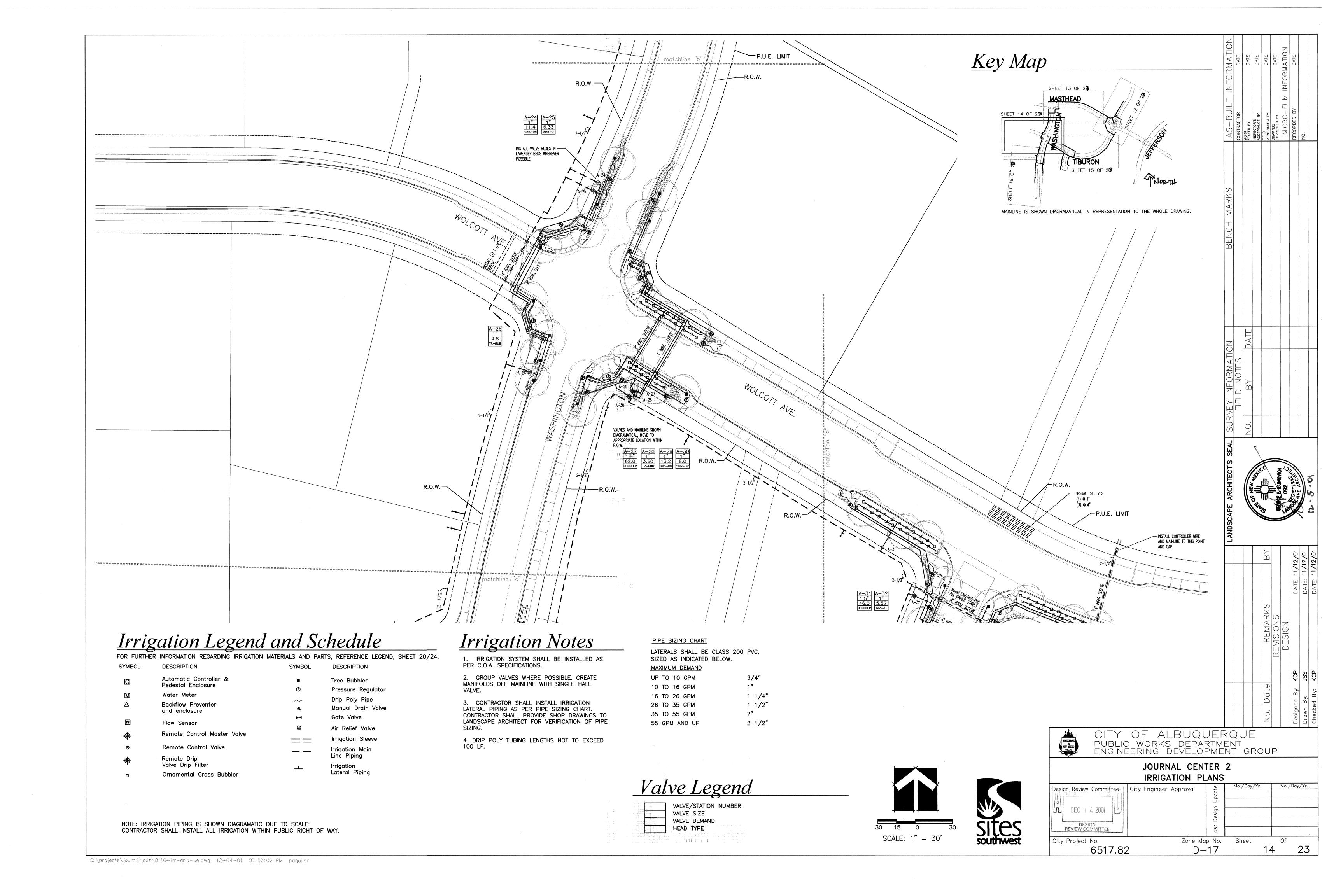
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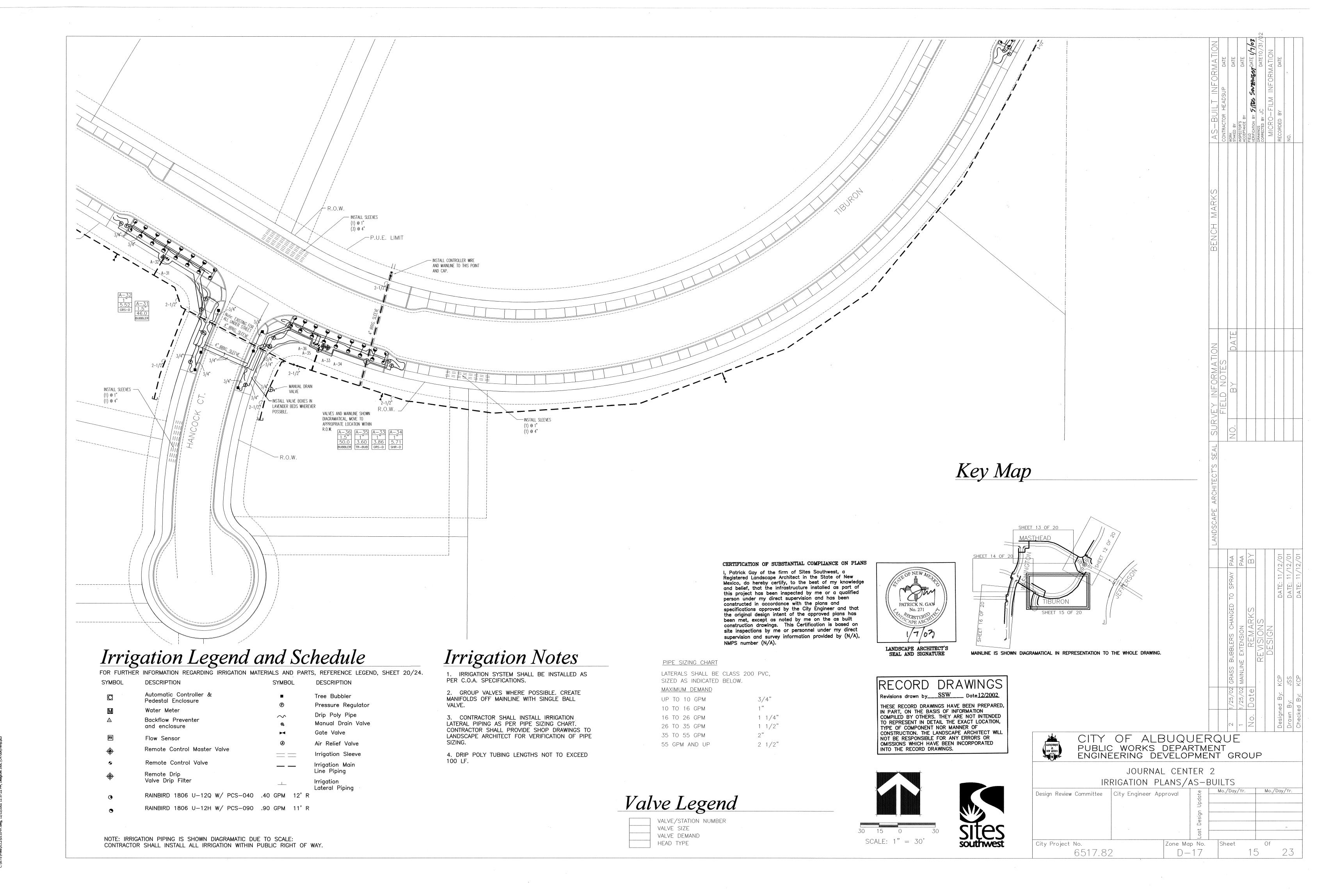
CONTRACTOR SHALL INSTALL ALL IRRIGATION WITHIN PUBLIC RIGHT OF WAY.

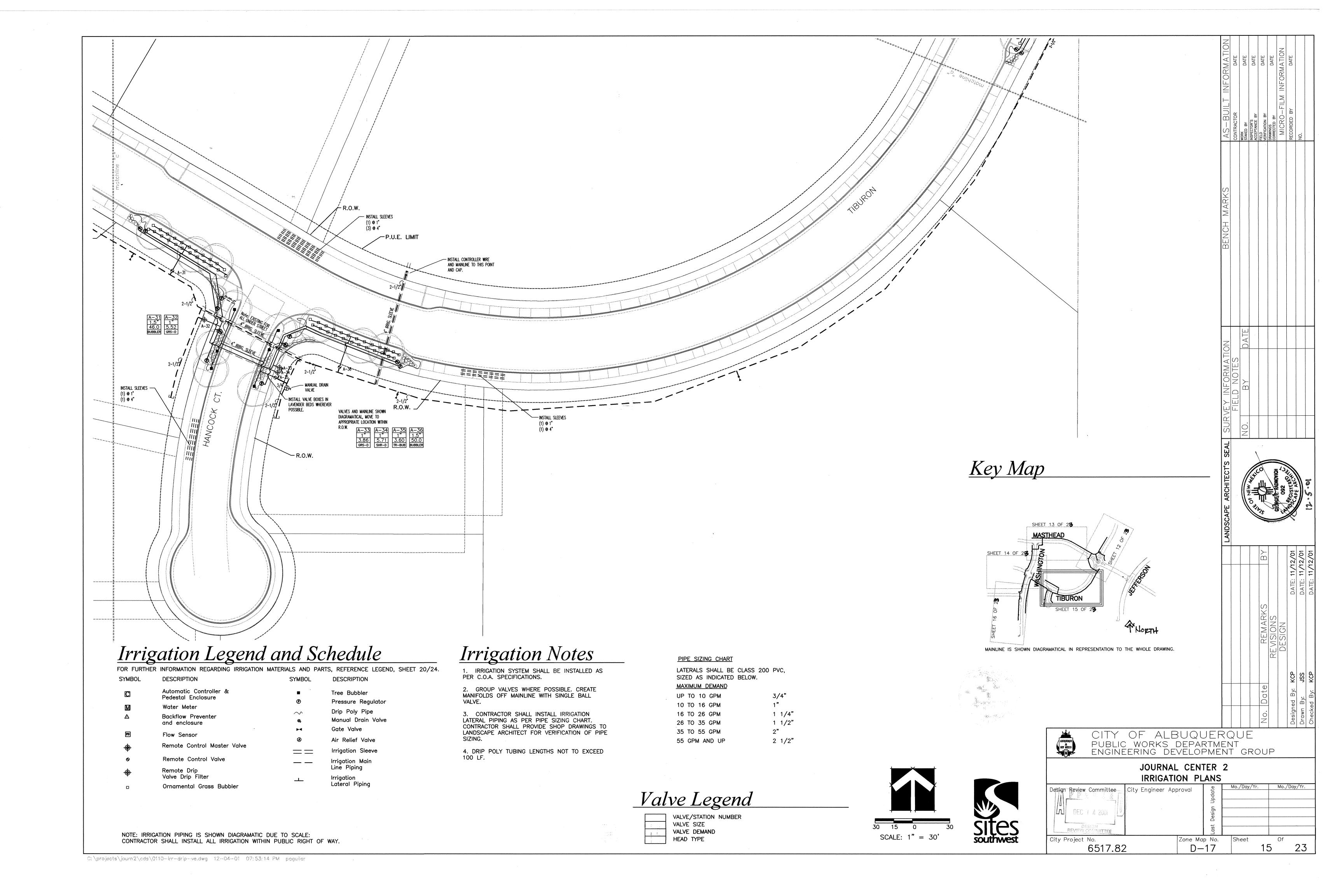


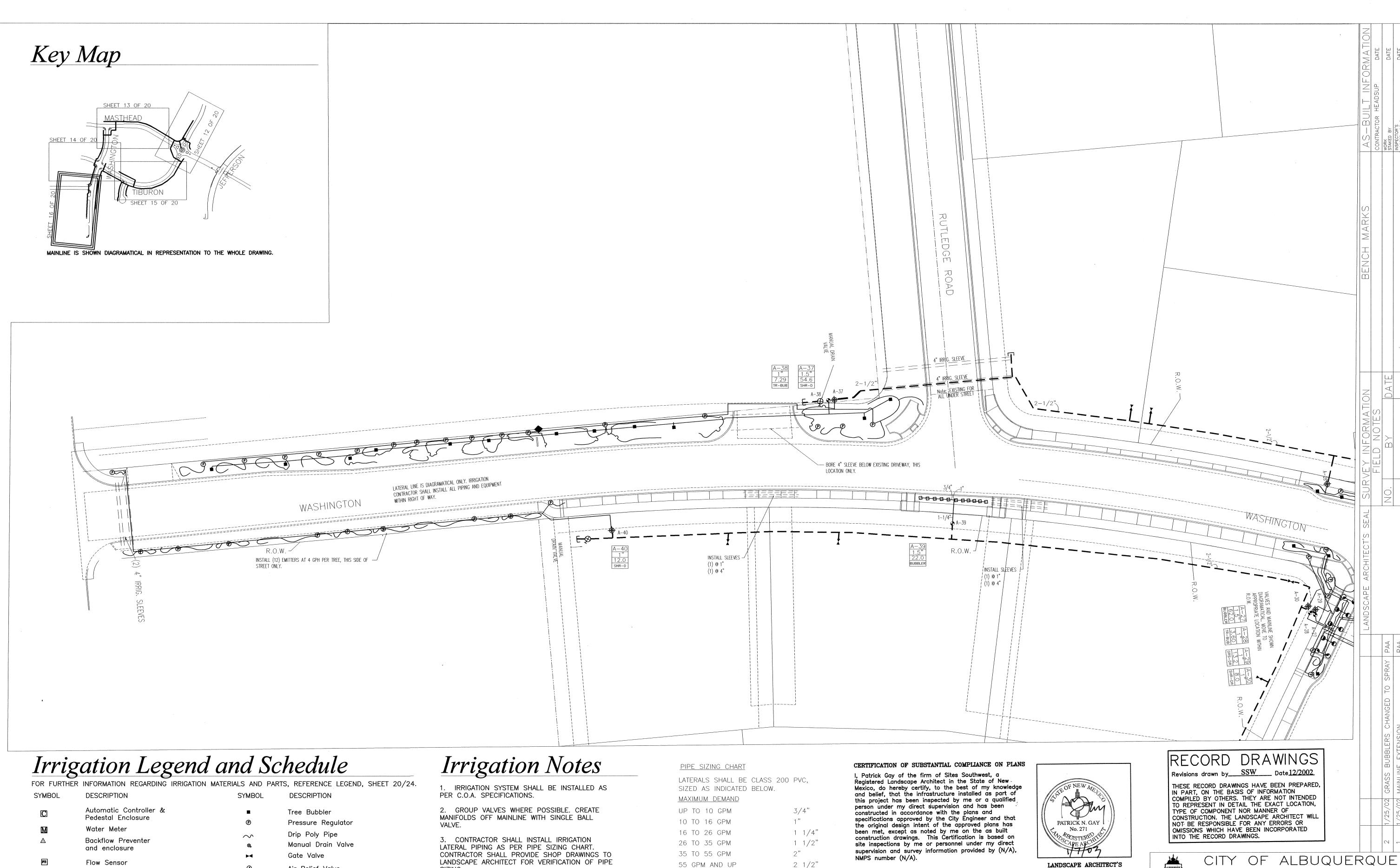












Valve Legend

VALVE SIZE VALVE DEMAND

HEAD TYPE

Flow Sensor Air Relief Valve Remote Control Master Valve Irrigation Sleeve Remote Control Valve Irrigation Main Remote Drip Valve Drip Filter Irrigation Lateral Piping RAINBIRD 1806 U-12Q W/ PCS-040 .40 GPM 12' R

RAINBIRD 1806 U-12H W/ PCS-090 .90 GPM 11' R

4. DRIP POLY TUBING LENGTHS NOT TO EXCEED

LANDSCAPE ARCHITECT'S SEAL AND SIGNATURE

PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP

6517.82

SCALE: 1" = 30'

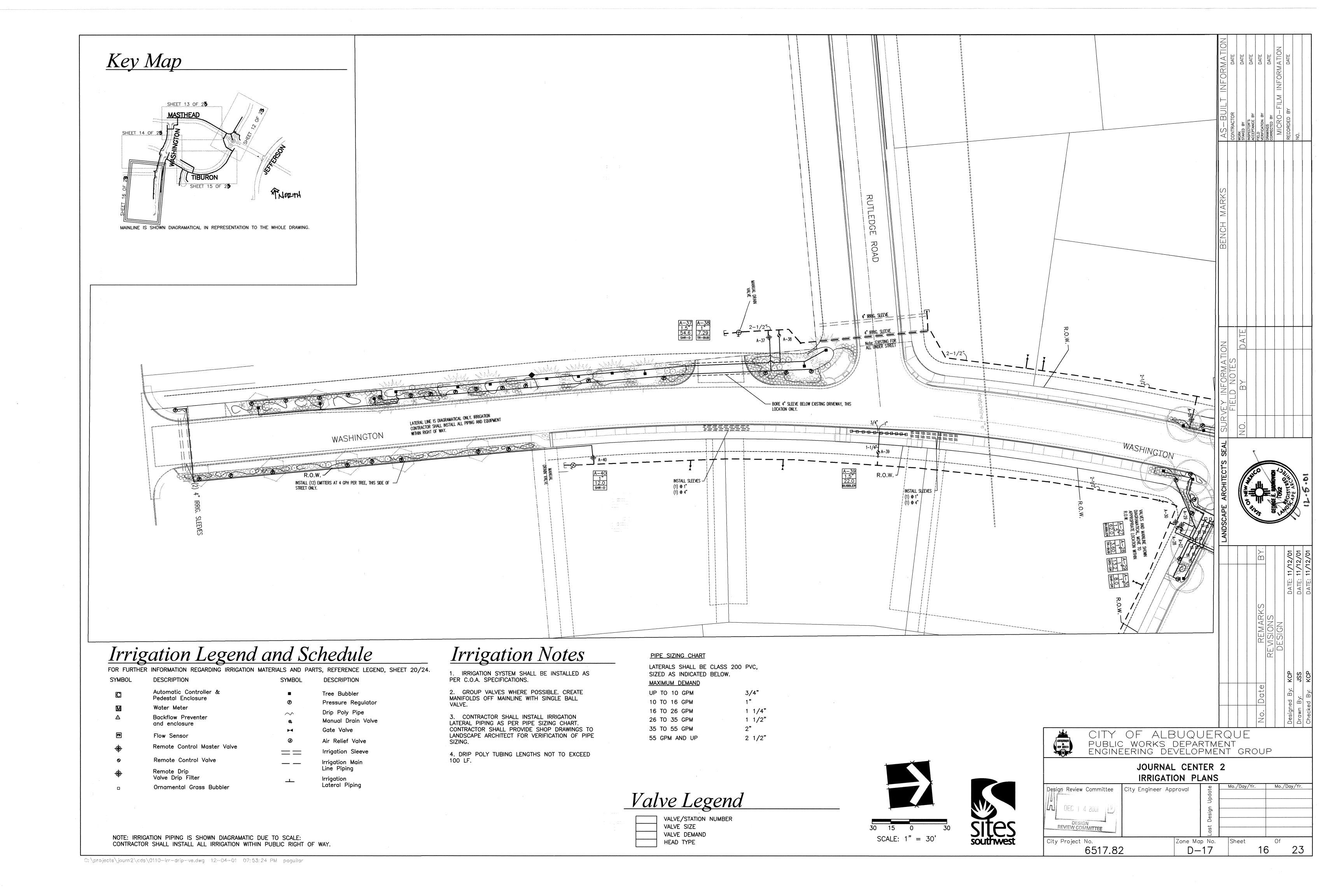


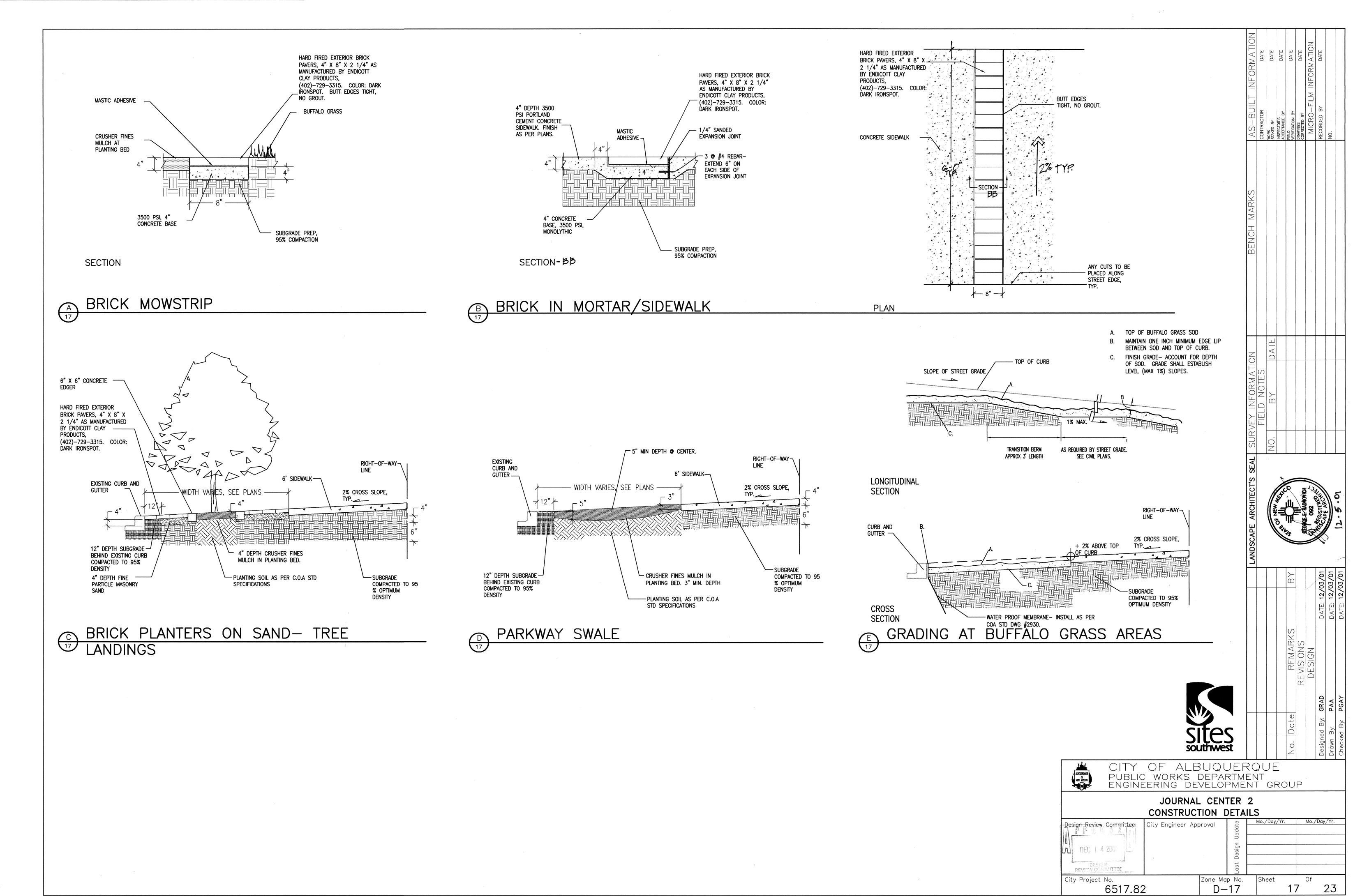
JOURNAL CENTER 2 IRRIGATION PLANS/AS-BUILTS Mo./Day/Yr. Mo./Day/Yr. Design Review Committee | City Engineer Approval City Project No. Zone Map No. Sheet

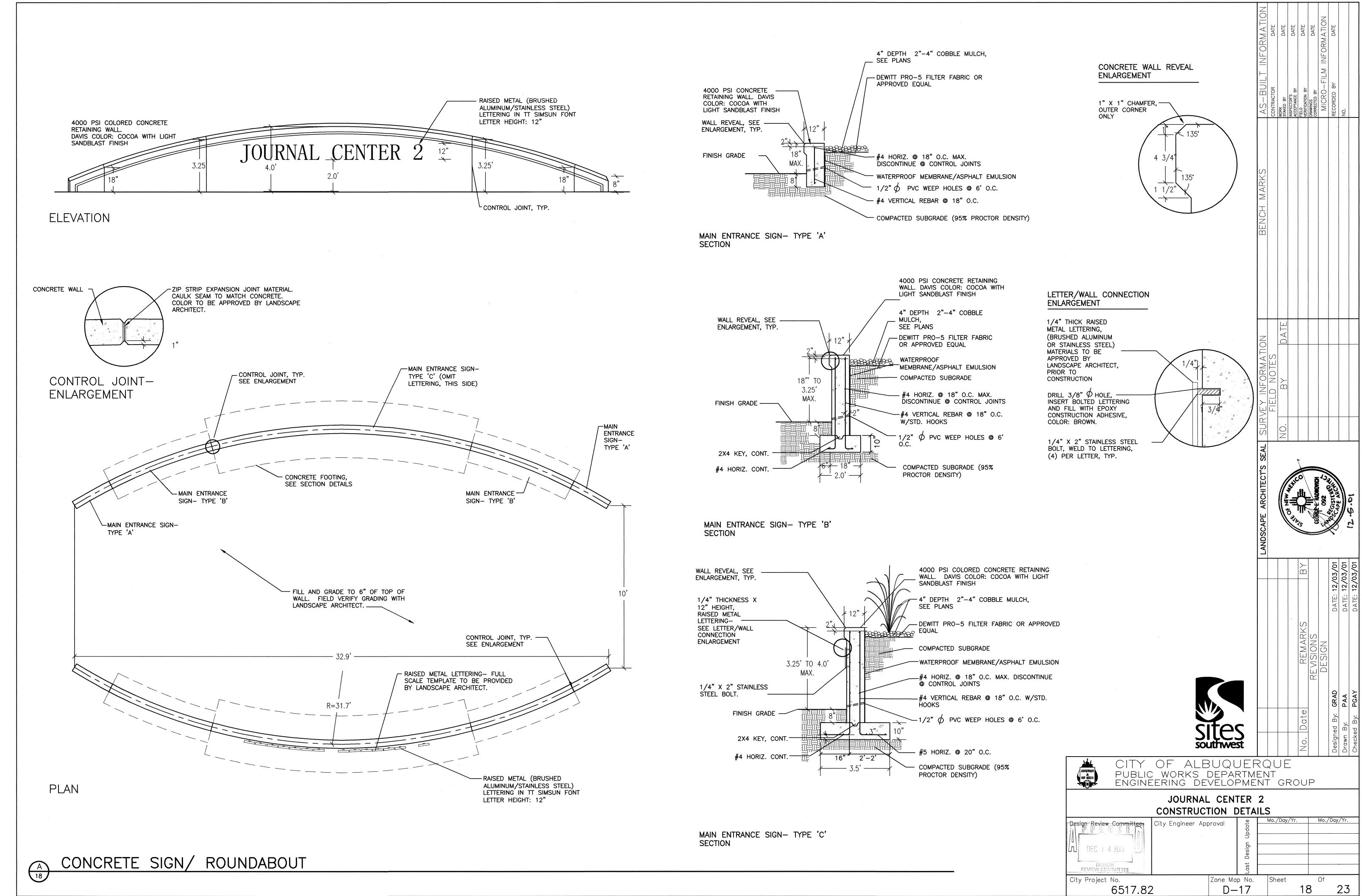
D - 17

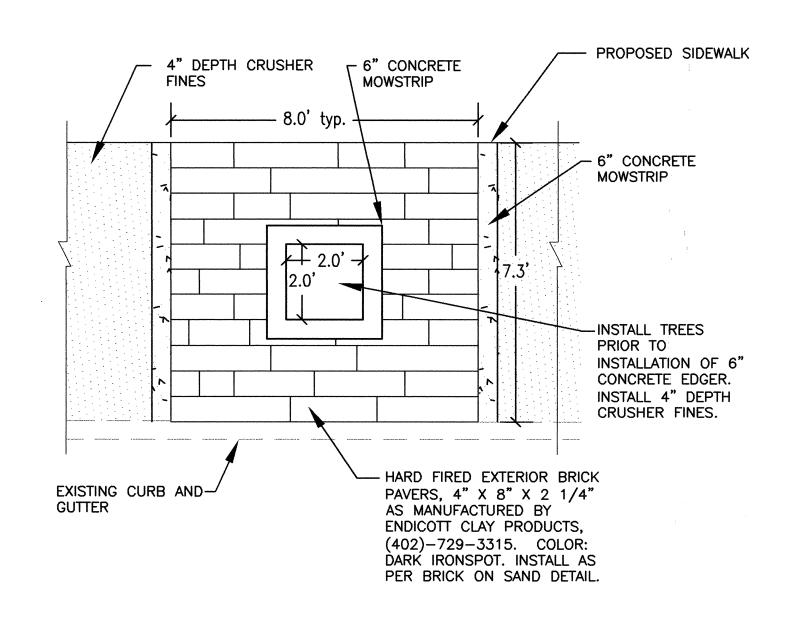
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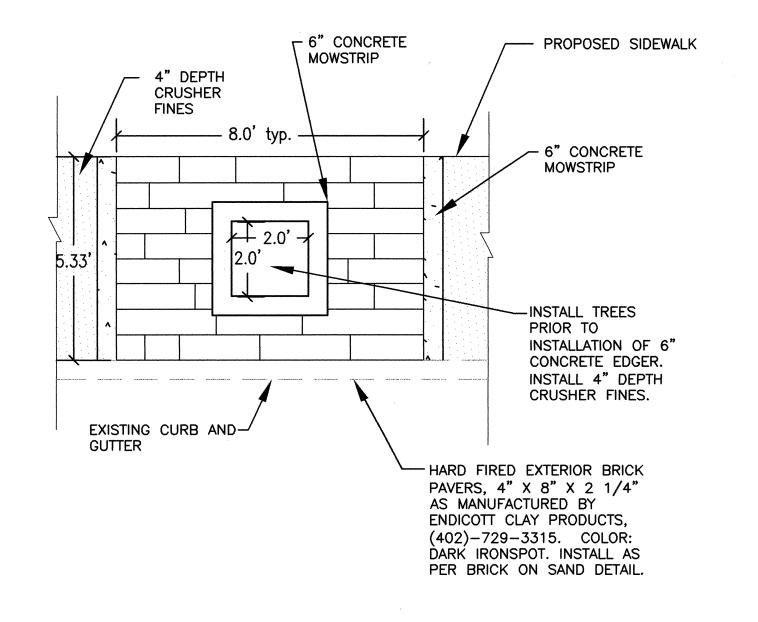
NOTE: IRRIGATION PIPING IS SHOWN DIAGRAMATIC DUE TO SCALE: CONTRACTOR SHALL INSTALL ALL IRRIGATION WITHIN PUBLIC RIGHT OF WAY.

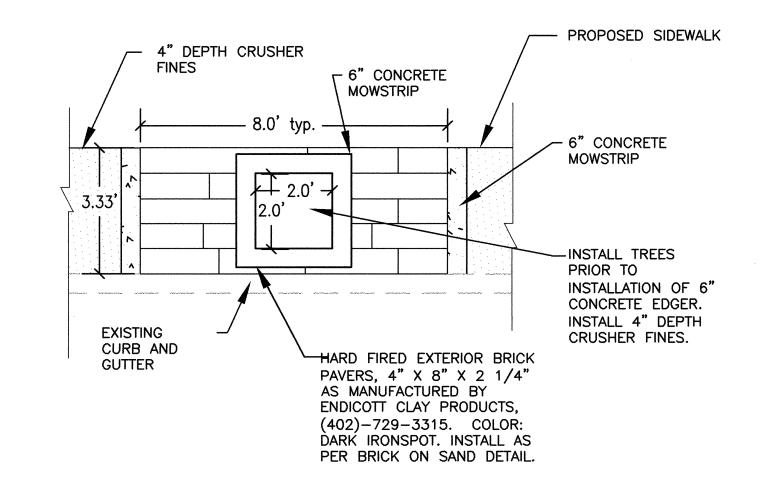












BRICK PLANTER TYPE

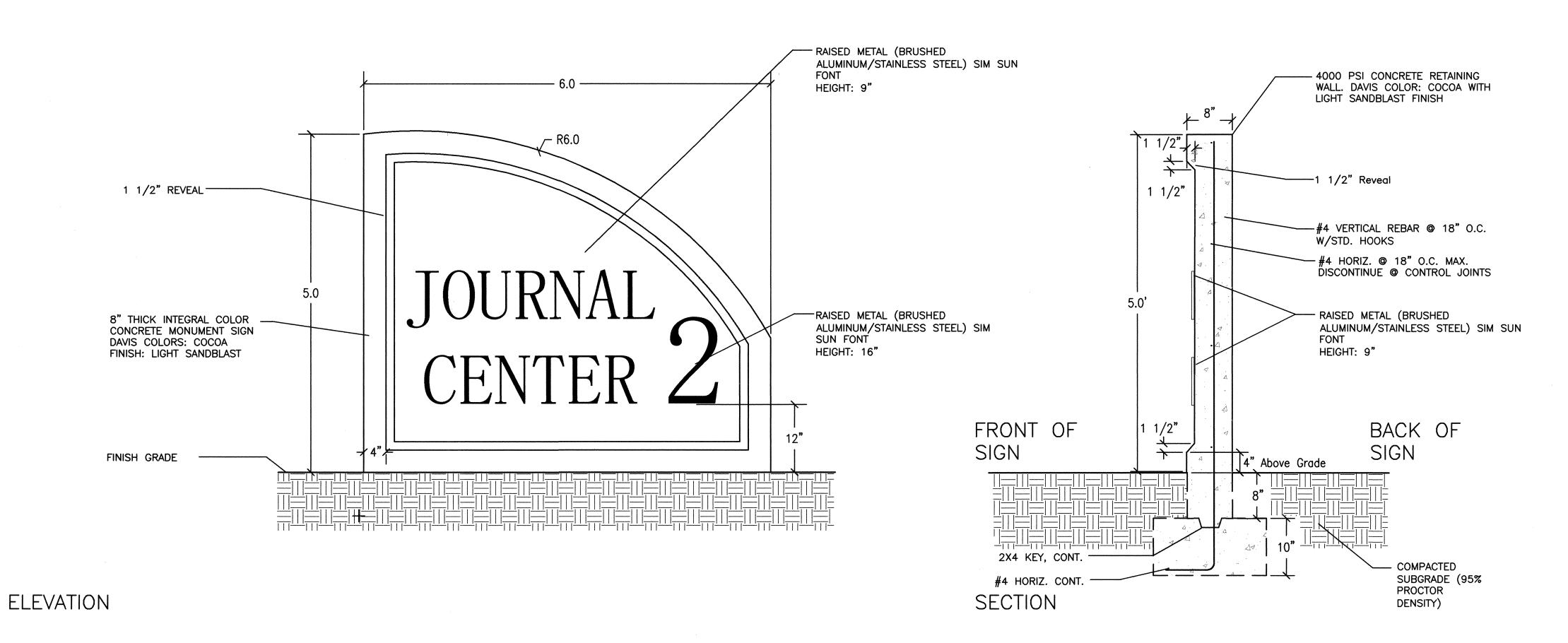
19
"A"

BRICK PLANTER TYPE

"B"

BRICK PLANTER TYPE

19
"C"



No. Date
REMAR
REVISIONS
Designed By: GRAD
Designed By: GRAD

D 19 ENTRY MONUMENT SIGN

| ABOOM PUBLIC                     | OF ALBU<br>Works de<br>Ering deve | - ARTME                  | ENT         | UP          |
|----------------------------------|-----------------------------------|--------------------------|-------------|-------------|
|                                  | JOURNAL C                         |                          |             | ·           |
| DEC   4 2001                     | City Engineer Approve             |                          | Mo./Day/Yr. | Mo./Day/Yr. |
| y Project No.<br><b>6517.8</b> 2 |                                   | e Map No.<br><b>D−17</b> | Sheet       | 19 of 23    |

### IRRIGATION LEGEND and SCHEDULE

| <u> </u>           | IGATION                                     | LUGUI                | ID and SCHE  | <u>UDULL</u>                                       |  |
|--------------------|---|----------------------|--|--|--|
| SYMBOL             | DESCRIPTION                                 | MANUFACTURER         | MODEL  | SIZE/NOZZLE  | NOTES  |
| C                  | Automatic Controller<br>& Pedest. Enclosure |                      | TWC-100-C<br>SB-2455                                 | Refer to Drawing                                   | Pedestal mount with Rain Stat and Penn<br>A-19ANC-1 Temperature Sensor   |
| M                  | Water Meter                                 |                      | Per Code   | 2"   | by owner   |
| Δ                  | Backflow Preventer and enclosure            | WILKINS<br>Strongbox | 975 RPBA<br>SBBC-60 ALHP                             | 2"   | Install per City of Albu. standard detail.<br>Drawing number 2701 and 2389   |
| FS                 | Flow Sensor<br>Master Valve                 | Tucor<br>Bermad      | FS-200<br>910-P                                      | 2"<br>2"   | Install per detail in 12" x 17" rectangular valve box w/ bolt down lid.  |
| <b>(</b>           | Remote Control<br>Master Valve              | Rainbird             | PEB  | 2"   | Install per City of Albu. standard detail.<br>Drawing number 2703  |
| •                  | Remote Control<br>Valve                     | Rainbird             | PEB  | Refer to Drawing<br>for Size                       | Install per City of Albu. standard detail.<br>Drawing number 2703  |
|                    | Buffalo Grass Turf<br>Bubbler               | Hunter               | Institutional 4"<br>PCN-20                           | PCN-20<br>2 GPM                                    | Install per Bubbler detail, this sheet.  |
|                    | Tree Bubbler                                | Rainbird             | 1803-5H-PCS060                                       | .60 gpm  | Install per City of Albu. standard detail.<br>Drawing number 2710, mulch as per plan.  |
| $\sim$             | Drip Poly Pipe                              | Toro                 | Toro EZ Drip Tubing<br>EZH-50                        | 1/2"   | Install (2) EZ-2-20 2 gph emitters per shrub or perennial, (12) EZ-2-40 4 gph emitters per tree.   |
| P                  | Pressure Regulator                          | Rainbird             | PSI-L30x-075   | 3/4"   | See detail this sheet.   |
| <b>\rightarrow</b> | Remote Drip Valve<br>Disc Filter            | Rainbird<br>Netafim  | PEB<br>1" DF100-200 or                               | Size as per plan<br>1 1/2" DF150S                  | ' detail Demuise supplement 2707   |
| ⊗,                 | Manual Drain Valve                          | Nibco                | Nibco 1"   | 1"   | Install at low point of system as shown in plans. Place in 12" x 17" plastic valve box. Field verify.  |
| ₩                  | Gate Valve                                  | Nibco                | Nibco 2"   | 2"   | Install per City of Albu. standard detail.<br>Drawing number 2706  |
| A                  | Air Relief Valve                            | Crispin              | Crispin UL 10.0 1"<br>Universal air release<br>valve | 1"   | Install per City of Albu. standard detail.  Drawing number 2705. Install at high points and saddles.   |
|                    | Irrigation Sleeve                           |                      |  | 2 sizes larger<br>than total pipe<br>to be sleeved | Paving sleeve(s) installed by General Contractor. Driveway and sidewalk sleeve(s) by Irrigation Contractor. All Controller wire sleeved separately in 1-1/4" sleeve. |
|                    | Irrigation Main Line<br>Piping              |                      | Sch 40 PVC   | Refer to Drawing<br>for Size                       | See Specifications   |
| L_                 | Irrigation Lateral<br>Piping                |                      | Class 200 PVC  | Refer to Drawing<br>for Size                       | 18" minimum cover over pipe  |

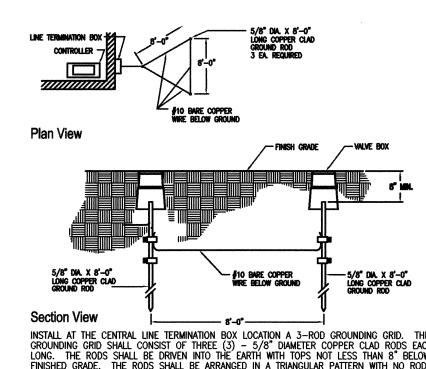
AUTOMATIC CONTROLLER DETAILS ARE PROVIDED ON THIS DETAIL SHEET DIRECTLY FROM THE MANUFACTURER'S RECOMMENDED DETAILS. SITES SOUTHWEST PROVIDED THESE DETAILS FOR CONTRACTOR CONVENIENCE AND ALL DIRECT QUESTIONS FOR THE TUCOR SYSTEM SHOULD BE DIRECTED TO TONY PAVLOVIC OF TUCOR, PHONE NUMBER " (724) 935-6850.

#### **IRRIGATION NOTES:**

- 1. Provide a complete, functioning automatic irrigation system including labor, materials, fees, taxes, equipment and other costs incidental to accomplishing the work.
- 2. Contractor shall maintain and provide all licensed requirements neccessary to complete said scope of work. Acquire written approval from Landscape Architect for material substitutes prior to commencing work.
- Locate existing underground utilities and obstacles prior to commencing work. Repair damage to utilities or finishes resulting from work at no additional expense to Owner.
- 5. Install work in accordance with applicable local codes and ordinances.
- Coordinate installation with General Contractor, landscape contractor and other trades as required.
- Coordinate sleeve and conduit requirements with General Contractor. 8. Extend control valve wires to farthest valve from controller(s) and adjacent to all valves shown.
- 9. All control valve wiring shall be direct burial, 600 volt, single conductor, solid copper, plastic insulated cable, rated for direct burial applications, U.F. and U.L. approved, 14 gauge minimum lead and 14 gauge minimum common ground wire. Verify wire size with manufacturer's requirements based upon wire lengths prior to installing. Use Tucor wire specs. 10. Connect remote sensor(s) to controller(s) with common ground wire in series prior to connecting to remote control valves. Use Tucor wire spec.
- 11. Make final electrical connection of controller(s) and backflow preventer per local electrical code. Provide all necessary fuse boxes, conduit, connector or other electrical devices to make connection.
- 12. Owner or Landscape Architect shall determine final controller location(s).
- 13. All construction shall conform to City of Albuquerque standard specifications. Unless otherwise approved on this plan

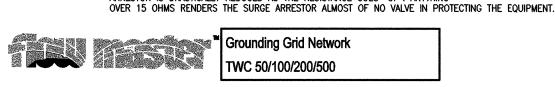
— Program and Station Number for Automatic Controller
— Valve Size in Inches 0.00 Gallons Per Minute Per Valve Type Of Head

Ten days prior to commencing installation, verify static pressure. If static pressure is less than 75 PSI, do not start work until notified in writing to proceed from Owner. Adjust system as required to provide 100% coverage and to minimize over-spray onto paving and structure(s).

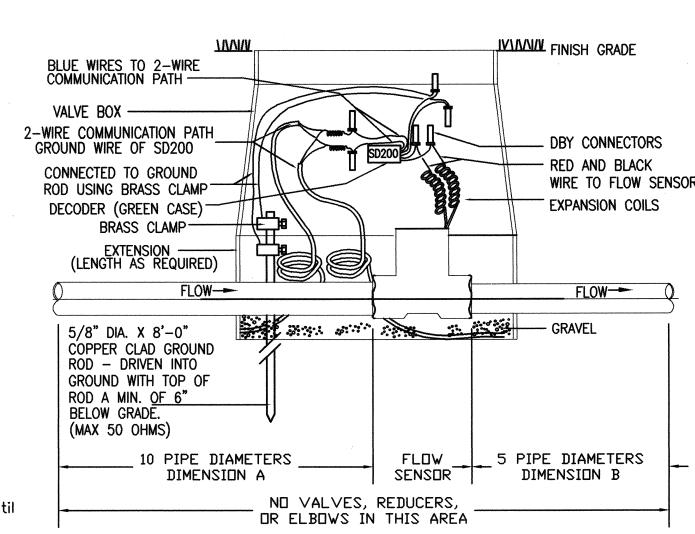


INSTALL AT THE CENTRAL LINE TERMINATION BOX LOCATION A 3-ROD GROUNDING GRID. THIS GROUNDING GRID SHALL CONSIST OF THREE (3) - 5/8" DIAMETER COPPER CLAD RODS EACH 8'-0" LONG. THE RODS SHALL BE DRIVEN INTO THE EARTH WITH TOPS NOT LESS THAN 8" BELOW THE FINISHED GRADE. THE RODS SHALL BE ARRANGED IN A TRIANGULAR PATTERN WITH NO ROD BEING CLOSER THAN 8'-0" TO ANY OTHER ROD. THE THREE (3) SHALL BE TIED TOGETHER BELOW GROUND BY A \$10 OR LARGER BARE COPPER WIRE. THE WIRE SHALL BE SECURED AT EACH ROD USING A SEPARATE BRASS CLAMP FOR EACH CONNECTION. DO NOT ATTEMPT TO PLACE TWO OR MORE WIRES IN A SINCE CLAMP

THE GROUNDING GRID SHALL BE TESTED FOR EARTH RESISTANCE, USING A VIBRA GROUND, MEGAR OR OTHER APPROVED TYPE INSTRUMENT. THE TEST SHALL NOT BE RUN UNTIL THE GROUNDING GRID HAS BEEN INSTALLED FOR A FEW WEEKS AND THE EARTH HAS HAD AN OPPORTUNITY TO "SETTLE" AROUND THE RODS. THE RESISTANCE OF THE GROUNDING GRID SHALL NOT BE GREATER THAN 15 OHMS. TO HAVE GROUNDING NETWORK, THAT WILL BE AS EFFECTIVE AS POSSIBLE, THE RESISTANCE SHALL BE 5 OHMS OR LESS. IF NECESSARY THE GROUNDING GRID MAY NEED TO BE TREATED WITH SALT OR OTHER TYPE CHEMICAL IN ORDER TO IMPROVE IT. REMEMBER THAT THE EFFECTIVENESS OF THE SURGE ARRESTOR IS DRASTICALLY REDUCED AS THE RESISTANCE GOES "UP". ANYTHING

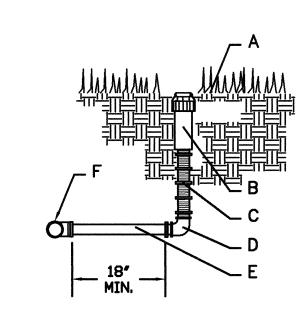


GROUNDING GRID NETWORK



EXAMPLE: for 3" flow sensor: Dimension A = Minimum 30" & Dimension B = Minimum 15"

#### Flow Sensor Installation Diagram FLOW SENSOR INSTALLATION



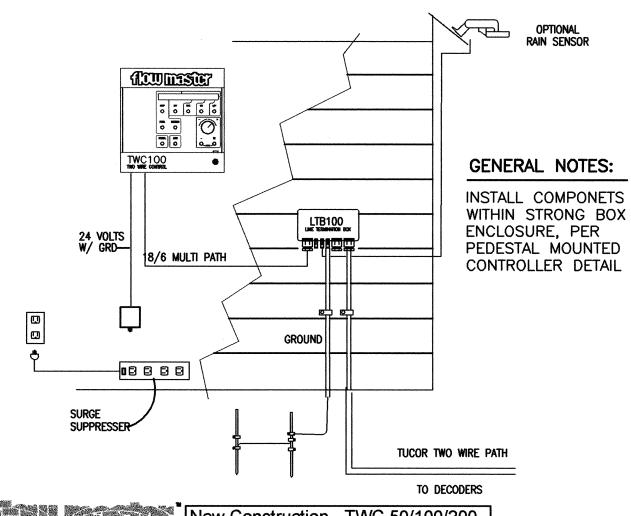
**GENERAL NOTES:** SET TOP OF HEAD FLUSH WITH FINISH GRADE.

#### **CONSTRUCTION NOTES:**

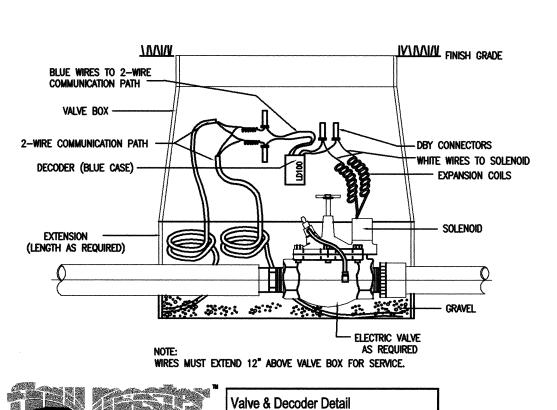
FINISH GRADE SPRINKLER HEAD (SEE PLAN) CUT OFF RISER SCH 40 PVC THREADED ELL. (SxT) PVC FLEXIBLE VINYL PIPE, STD`IPS FROM AGRICULTURAL PRODUCTS F. SCH 40 PVC TEE.

Note: bubblers are used in the turf areas to adhere to requirements of not using spray heads along back of curb. Contractor is to fine grade planting areas so that the water flow from the flood bubblers can evenly flow across the planting area. If field situations occur that prevent the grading from being constructed and will not allow the water to flow as describe, contact the Landscape Architect for direction.

\BUBBLER

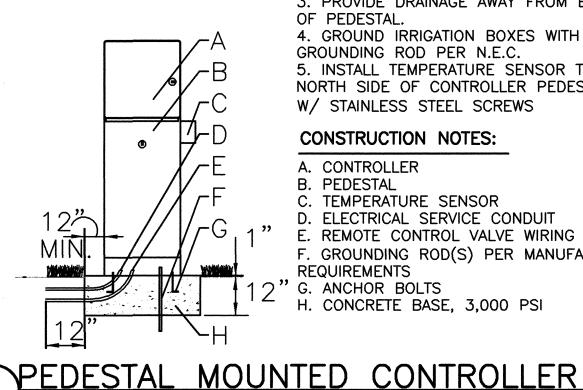


New Construction - TWC 50/100/200 CONTROLLER TUCOR TWC 50



NOTE: INSTALL THE AUTOMATIC VALVE PER THE CITY OF ALBUQUERQUE STANDARD DETAIL. THIS DETAIL IS TO CLARIFY THE WIRING CRITERIA ONLY.

DECODER TO VALVE WIRING



## H. CONCRETE BASE, 3,000 PSI

**GENERAL NOTES:** 

LOCAL CODES.

OF PEDESTAL.

A. CONTROLLER B. PEDESTAL

**REQUIREMENTS** 

G. ANCHOR BOLTS

1. INSTALL ELECTRICAL WIRING PER

4. GROUND IRRIGATION BOXES WITH

5. INSTALL TEMPERATURE SENSOR TO

NORTH SIDE OF CONTROLLER PEDESTAL

FOR ALL ELECTRICAL WORK.

GROUNDING ROD PER N.E.C.

W/ STAINLESS STEEL SCREWS

CONSTRUCTION NOTES:

C. TEMPERATURE SENSOR

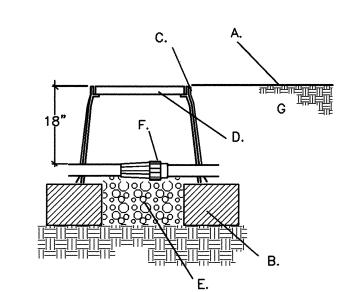
D. ELECTRICAL SERVICE CONDUIT

. REMOTE CONTROL VALVE WIRING CONDUIT GROUNDING ROD(S) PER MANUFACTURER'S

2. CONTRACTOR SHALL BE RESPONSIBLE

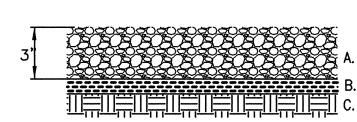
3. PROVIDE DRAINAGE AWAY FROM BASE

- A. BROOKS PROJUCTS INC. 1419-18
  BODY (ABS) VALVE BOX W/BOLT DOWN
  COVER.(ABS) AND ONE 8" EXTENSION.
- FINISH GRADE 24" WIRE LOOP AUTOMATIC VALVE-
- SEE IRRIGATION LEGEND. E. DRY SPLICE CONNECTOR OR
- **EQUAL** F. SCH. 80 NIPPLE SCH. 80 COUPLING
- H. "WYE" STRAINER STRAINER SHALL BE INSTALLED TO PROVIDE ACCESS FOR MAINTENANCE AND REPLACEMENT
- OF FILTER LATERAL LINE 8" X 8" X 16" CMU



- FINISH GRADE 8" X 8" X 16" SOLID CMU BLOCK. 6MM BLACK POLYETHYLENE PLASTIC TAPE TO ALL INLET AND OUTLET PIF
- BROOK'S PRODUCTS INC, 1419
  BODY (ABS) VALVE BOX WITH 1419
  BOLT DOWN COVER (ABS) AND 8" EXTENSIONS.
- E. 4" LAYER OF 3/4" GRAVEL
  F. INLINE PRESSURE REGULATOR— SEE

INLINE PRESSURE REGULATOR

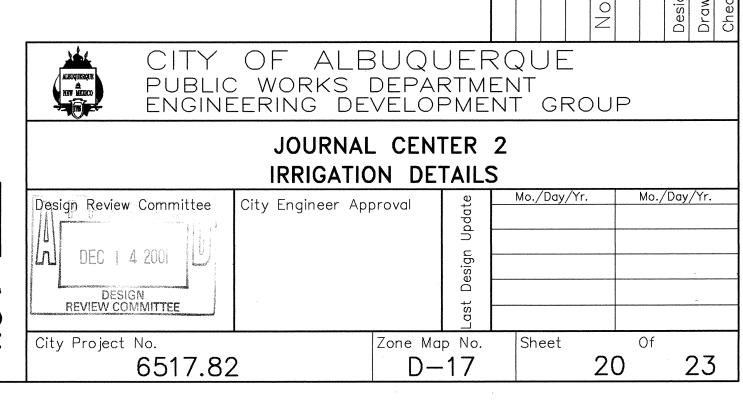


**GENERAL NOTES:** PRESSURE REGULATORS ARE IN PLANTING AREAS FOR FLEXIBILITY OF PLACING DRIP LINE IN THE FIELD. CONTRACTOR IS TO PLACE DRIP LINE AROUND PLANT MATERIAL IN THE BEST MANNER POSSIBLE THAT WILL ADEQUATE WATER TO THE PLANT MATERIAL TO SUSTAIN PLANT GROWTH. DO NOT EXCEED DRIP LINE RUNS OF 170'.

CONSTRUCTION NOTES:

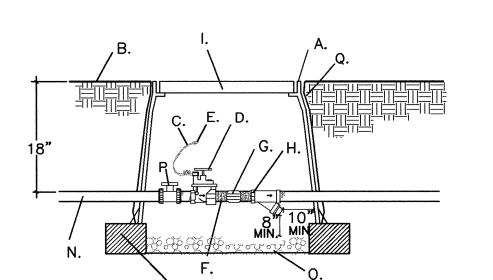
. 3" LAYER OF CRUSHER FINES DRIP LINE





CONCRETE BLOCK SCH 80 PVC NIPPLE 4" LAYER OF 3/4" GRAVEL SPEARS TRUE UNION SCHEDULE 80 PVC BALL VALVE CRUSHER FINES VALVE/FILTER ASSEMBLY

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A DRIP VALVE/FILTER ASSEMBLY

- A. BROOKS PRODUCTS INC 1730 PB-18 VALVE BOX WITH 1730 BOLT DOWN COVER AND (2) 6 1/2" EXTENSIONS.
- FINISH GRADE
- C. 24" WIRE LOOP AUTOMATIC VALVE- SEE IRRIGATION PARTS LIST.
- E. DRY SPLICE CONNECTOR
- OR EQUAL F. SCH 80 NIPPLE
- SCH 80 COUPLING "WYE" STRAINER STRAINER SHALL BE INSTALLED TO PROVIDE ACCESS FOR MAINTENANCE AND REPLACEMENT OF FILTER SEE IRRIGATION NOTES.
- LOCKING VALVE BOX COVER M. 8" X 8" X 16" CMU SOLID
- CONCRETE BLOCK MAINLINE
- 4" LAYER OF 3/4" GRAVEL BALL VALVE Q. 6MM BLACK POLYETHYLENE PLASTIC TAPE TO
- ALL INLET AND OUTLET PIPE AND INSTALL FULL LENGTH OF VALVE BOX BOTTOM.



NOT TO SCALE

## B INLINE PRESSURE REGULATOR

### LATERAL PIPE SIZING CHART

FINISH GRADE

2 @ 4" X 4" X 8" SOLID CMU BLOCK. 6MM BLACK POLYETHYLENE PLASTIC TAPE TO ALL INLET AND OUTLET PIPE. INSTALL FULL LENGTH OF VALVE BOX.

BROOK'S PRODUCTS INC, 910

EQUAL, COLOR: GREEN

IRRIGATION NOTES

I. PVC LATERAL

H. PVC TO POLY ADAPTER

BODY VALVE BOX WITH 901-2B

BOLT DOWN COVER, OR APPROVED

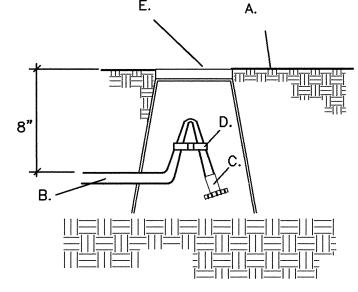
4" LAYER OF 3/4" GRAVEL INLINE PRESSURE REGULATOR— SEE

G. DRIP POLY PIPE (SEE IRRIGATION NOTES)

LATERALS SHALL BE CLASS 200 PVC, SIZED AS INDICATED BELOW. MAXIMUM DEMAND 3/4" UP TO 10 GPM 10 TO 16 GPM

1 1/4" 16 TO 26 GPM 1 1/2" 26 TO 35 GPM

35 TO 55 GPM 2 1/2" 55 GPM AND UP



3/4" POLY LINE RÁINBIRD 700CF-21 POLY LINE

A. FINISH GRADE

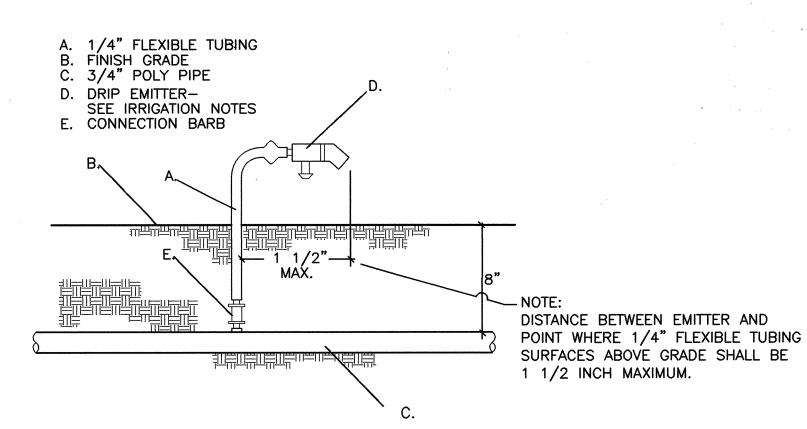
CAP (OR APPROVED EQUAL) D. RAINBIRD 700CF-22 FIGURE 8 END CLOSURE (OR APPROVED EQUAL)

GREY BOLT DOWN COVER (OR APPROVED EQUAL)

POLY END CAP

NOT TO SCALE

NOT TO SCALE



NOT TO SCALE

### IRRIGATION NOTES

THE CONTRACTOR SHALL BE FAMILIAR WITH THESE DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE OF ANY ITEMS THAT ARE IN CONFLICT WITH THE PROPOSED CONTRACT.

WHERE EVER APPLICABLE, PLACE MAINLINE AND LATERAL PIPING WITHIN TWO (2') FEET OF FACE OF CURB (F.O.C) ALL VALVES SHALL BE LOCATED IN PLANTING AREAS WHERE SHOWN AND ALL PIPING SHALL BE INSTALLED PRIOR TO PLANTING. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING. CAP ALL ENDS HAND TIGHT PRIOR TO BACKFILL. ALL IRRIGATION SHALL BE INSTALLED WITHIN APPLICABLE RIGHT OF WAYS.

DRIP SUPPLY PIPING SHALL BE LOW DENSITY 3/4" POLYETHYLENE TUBING. DEPTH OF BURY SHALL BE 8". MAXIMUM RUN OF PIPE FROM POINT OF CONNECTION AT PRESSURE REGULATOR SHALL BE 150 LINEAR FEET. MAXIMUM FLOW FROM POINT OF CONNECTION AT PRESSURE REGULATOR SHALL BE 5 GPM. DISTRIBUTION TUBING SHALL BE 1/4" FLEXIBLE POLYVINYL TUBING. MAXIMUM LENGTH OF DISTRIBUTION TUBING SHALL BE EIGHT FEET.

ALL DRIP SUPPLY FITTINGS SHALL BE COMPRESSION TYPE FITTINGS. ALL DISTRIBUTION TUBING FITTINGS SHALL BE BARBED TYPE CONNECTIONS.

EACH SHRUB WITH 2 FT OR GREATER ON CENTER SPACING SHALL BE DRIP IRRIGATED WITH (2) TWO PRESSURE COMPENSATING 2 GPH XB-20 RAINBIRD EMITTERS (OR APPROVED EQUAL). EACH SHRUB WITH LESS THAN 2 FT. ON CENTER SPACING SHALL BE DRIP IRRIGATED WITH (1) ONE 2 GPH XB-20 RAINBIRD EMITTERS (OR APPROVED EQUAL).

DRIP ZONE AUTOMATIC VALVES SHALL BE ACCOMPANIED BY A 150 MESH ROTARY DISK FILTER- RAINBIRD RAPIDCLEAN MODEL (OR APPROVED EQUAL). SIZE AS ZONE DEMAND REQUIRES. REFERENCE PIPE SIZING CHART AND MANUFACTURER'S SPECIFICATIONS.

HARD PIPE TO POLY PIPE TRANSITION SHALL BE MADE AT PRESSURE REGULATOR AS PER THE DETAILS. PRESSURE REGULATOR SHALL REDUCE OPERATING PRESSURE TO 30 PSI AT THE REQUIRED FLOW FOR EACH DRIP ZONE- RAINBIRD PSI-L30X ( OR APPROVED EQUAL).

IF THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS DO NOT THOROUGHLY DESCRIBE THE METHOD OR TECHNIQUES TO BE USED FOR INSTALLATION. THEN THE CONTRACTOR SHALL FOLLOW THE INSTALLATION METHODS RECOMMENDED BY THE MANUFACTURER.

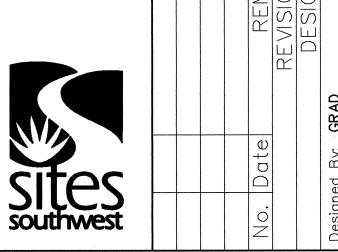
ALL PLANT MATERIALS INSTALLED SHALL HAVE THE AUTOMATIC IRRIGATION SYSTEM FULLY OPERABLE AT THE TIME OF PLANT INSTALLATION.

WARRANTY MAINTENANCE

THE CONTRACTOR SHALL FURNISH A CERTIFICATE OF WARRANTY AND A GUARANTEE OF WORK AND MATERIALS FOR A ONE YEAR PERIOD FROM DATE OF FINAL ACCEPTANCE. FINAL PAYMENT FOR THE SYSTEM SHALL NOT BE MADE UNLESS THIS CERTIFICATE IS PRESENTED TO THE OWNER.

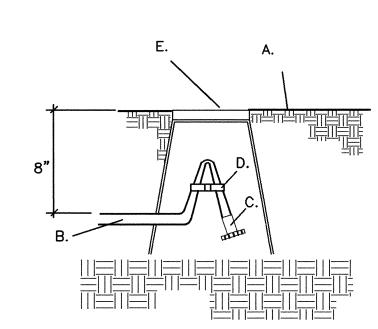
THE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM, IN SATISFACTORY WORKING ORDER, DURING THE TIME OF CONTRACT

THE CONTRACTOR SHALL BE LIABLE FOR ANY LOSS OR DAMAGE TO ANY WORK OR MATERIALS, SUPPLIES AND EQUIPMENT ON THE JOB SITE CAUSED BY THE CONTRACTOR, ITS EMPLOYEES OR ANY OTHER UNFORESEEN CAUSE UNTIL FINAL ACCEPTANCE OF PROJECT WITH THE OWNER'S REPRESENTATIVE.



12/03/01 12/03/01 12/03/01

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| JOURNAL CENTER 2 IRRIGATION DETAILS                             |                                |                    |     |      |        |   |                |      |       |  |   |
| Design Review Committee  DEC   4 2001  DESIGN  REVIEW COMMITTEE | proval                         | Last Design Update | P   | Mo./ | Day/Yr | • | Мо             | ./Da | y/Yr. |  |   |
| City Project No. 6517.82  | Zone Ma                        | P No.              |     | She  | et     | 2 | 0f<br><b>1</b> |      | 23    |  |   |



E. BROOKS 910 VALVE BOX WITH

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPERATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

2\19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING: 1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. 2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION. 3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION. AS WELL AS OTHER SECTIONS.

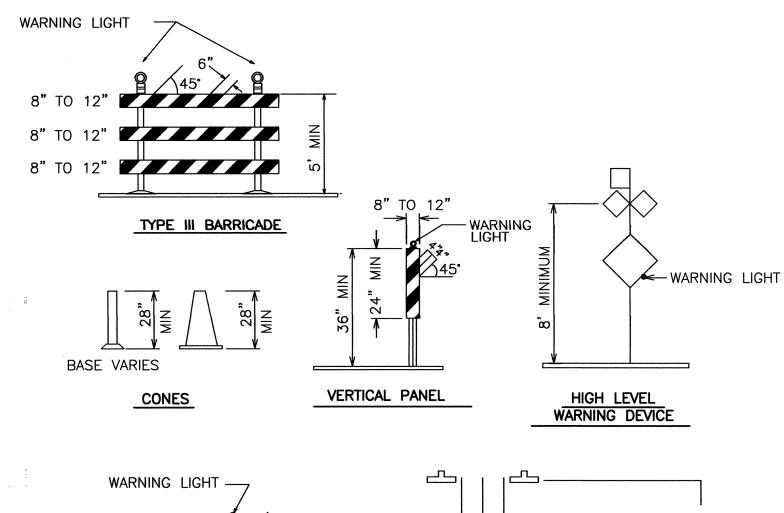
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

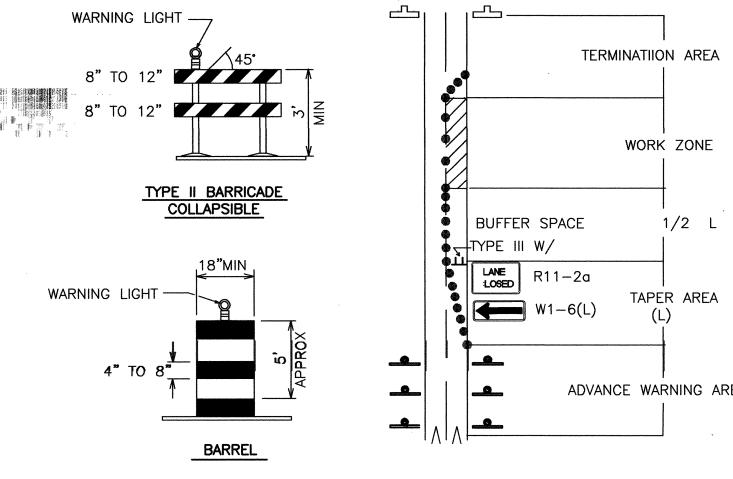
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION, WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

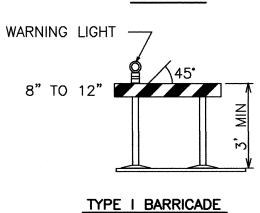
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

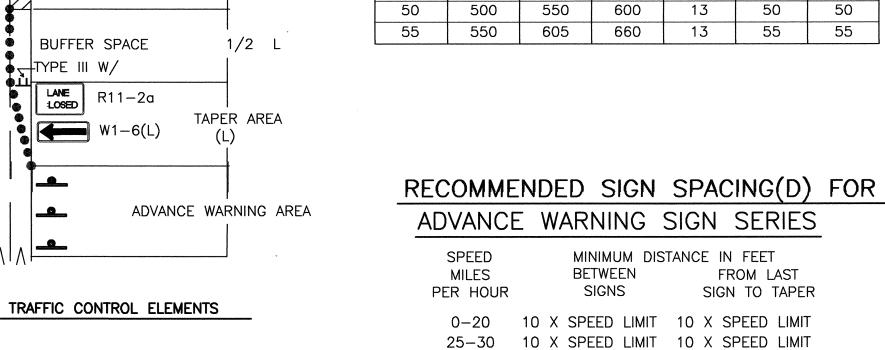
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPTMENT, BOTH PERMANENT AND TEMPORARY.









WORK AREA

SPEED

LIMIT

(MPH)

20

25

30

35

45

| TYPE OF TAPER         | TAPER LENGTH      |
|-----------------------|-------------------|
| UPSTREAM TAPER:       |                   |
| MERGING TAPER         | L MINIMUM         |
| SHIFTING TAPER        | 1/2 L MINIMUM     |
| SHOULDER TAPER        | 1/2 L MINIMUM     |
| TWO-WAY TRAFFIC TAPER | 100 FEET MAXIMUM  |
| DOWNSTREAM TAPERS     | 100 FEET PER LANE |

TAPER CRITERIA

LEGEND

DISTANCE BETWEEN SIGNS — A DISTANCE MEASURED IN FEET EQUAL

SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET

MINIMUM NUMBER

0F

FOR TAPER

13

MAXIMUM DEVICE

SPACING IN FEET

25

30

35

40

45

50

ALONG TAPER

20

25

30

35

40

45

50

55

FROM LAST

TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

BARRICADE - TYPE I, TYPE II, OR BARREL

EQUAL TO THE STREET LIMIT OF THE STREET

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENT

80

125

180

245

320

540

10 X SPEED LIMIT 10 X SPEED LIMIT

10 X SPEED LIMIT 10 X SPEED LIMIT

40-45 10 X SPEED LIMIT 10 X SPEED LIMIT

TAPER LENGTH - SEE CHART BELOW

TAPER LENGTH(L)

LÄNE

75

115

165

225

295

495

BARRICADE - TYPE III

VERTICAL PANEL

WARNING SIGN

FLAGMAN POSITION

70

105

150

205

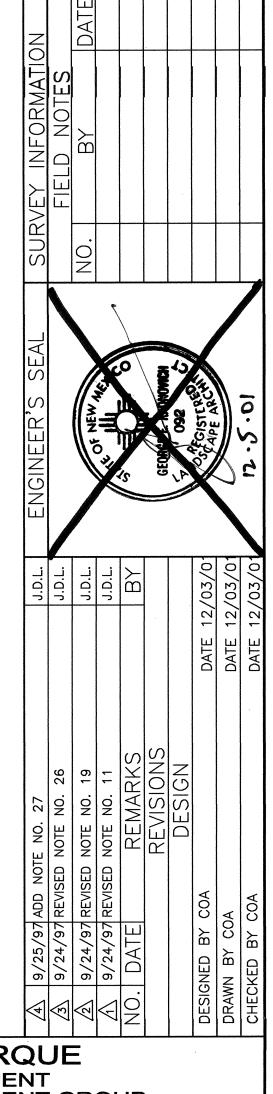
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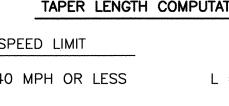
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#### TAPER LENGTH COMPUTATION

| SPEED LIMIT                            |                       |
|--|-----------------------|
| 40 MPH OR LESS                         | $L = \frac{WS^2}{60}$ |
| 40 MPH OR GREATER                      | $L = W \times S$      |
| ************************************** |                       |

L = TAPER LENGTHW = WIDTH OF OFFSET IN FEET S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH





CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP TRAFFIC CONTROL SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS MO./DAY/YR. MO./DAY/YR. DESIGN REVIEW COMMITTEE

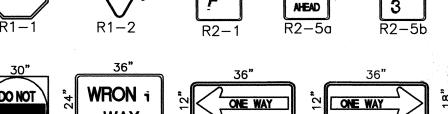
6517.82

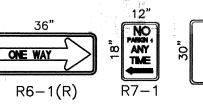
CITY PROJECT NO.

ZONE MAP NO.

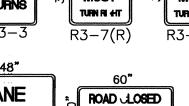
#### SIGN FACE DETAILS

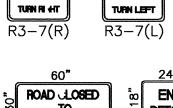
| W1-1(R)<br>30 MPH   | W1-1(L)<br>or LESS       | W1-2(R)<br>30 MPH o | W1-2(L)<br>or GREATER             | W1-3(R)<br>30 MPH        | W1-3(L) or LESS  | W1-4(R)<br>30 MPH o    | W1-4(L)<br>or GREATER                  | M1-6   | ************************************** | 36"<br>(1-6(L)      | STOP<br>AHEAD<br>W3-1 |           |
|---|--------------------------|---------------------|-----------------------------------|--------------------------|------------------|------------------------|--|--|--|---------------------|-----------------------|-----------|
| %.<br>W4−2(R)   | √5, √5, W4-2(L)          | W6-3                | BUMP<br>W8-1                      | PANEMENT ENDS            | ₩8-3A            | LOOSE<br>PAVEL<br>W8-7 | 24"<br>3 / MPH<br>W13-1                | ₩ <b>1</b><br>W12-1                          | ₩8-9a                                  | NO OUTLET  W14-2    | √5.<br>W3−1A          |           |
| ROAD TO STRUCTURE | DETOUR<br>AHEAD<br>W20-2 | ROAD LOSED AHEAD    | ORELINE<br>ROAD<br>AHEAD<br>W20-4 | W20-5(R)                 | HEAD<br>W20-5(L) | W20-5(2R)              | TWO LARES LORES LARES AREAD  W20-5(2L) | STITER<br>LANE<br>LOGED<br>APEND<br>W20-5(C) | FLA 1 ER<br>AHEAD<br>W20-7             | W20-7a              | ₩1 – 4bR              | % Vo. 4bL |
| STOP  | 36"<br>WED (%)           | 24"  speed LIMIT    | 24"<br>" REDUAD<br>SPEED          | 24"<br>"FEDULED<br>SPEED | 24"<br>24"       | 24"                    | 24"<br>NO                              | 24" RI HIT LANE MUST                         | 24"  LEFT LANE  MUST                   | 24" <b>KEEP</b> *02 | 24"<br>KEEP           |           |

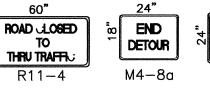


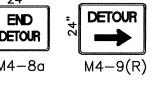




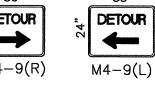








**RI HT** R4-7b

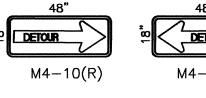


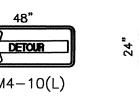
**CONSTRUCTION** 

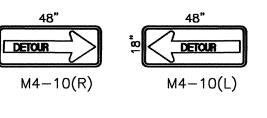
G20-2

LEFT

R4-7b(L)







ALL CONSTRUCTIONN WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

