

CARLISLE/CAMPUS & COPPER LANDSCAPING

3525-1/2 CAMPUS BLVD. N.E.

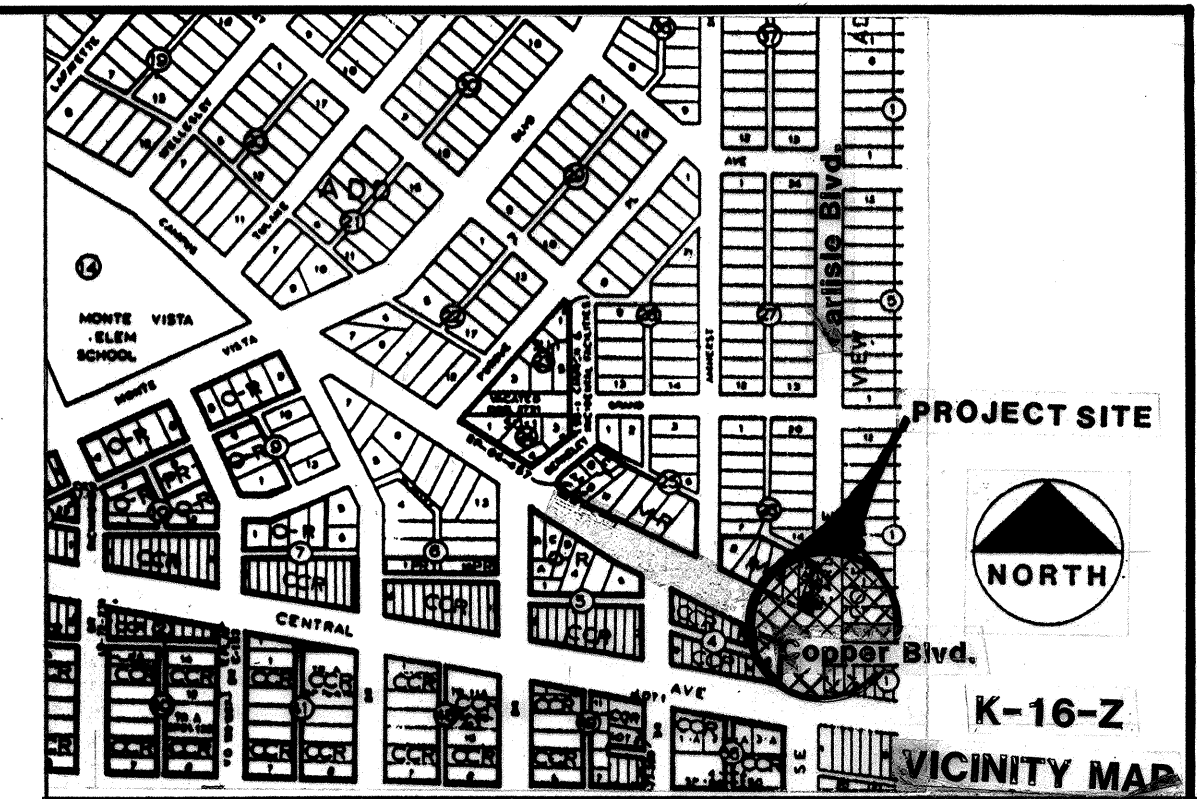
3600-1/2 COPPER AVE. N.E.

3601-1/2 COPPER AVE. N.E.

CLASS II CONSTRUCTION

INDEX

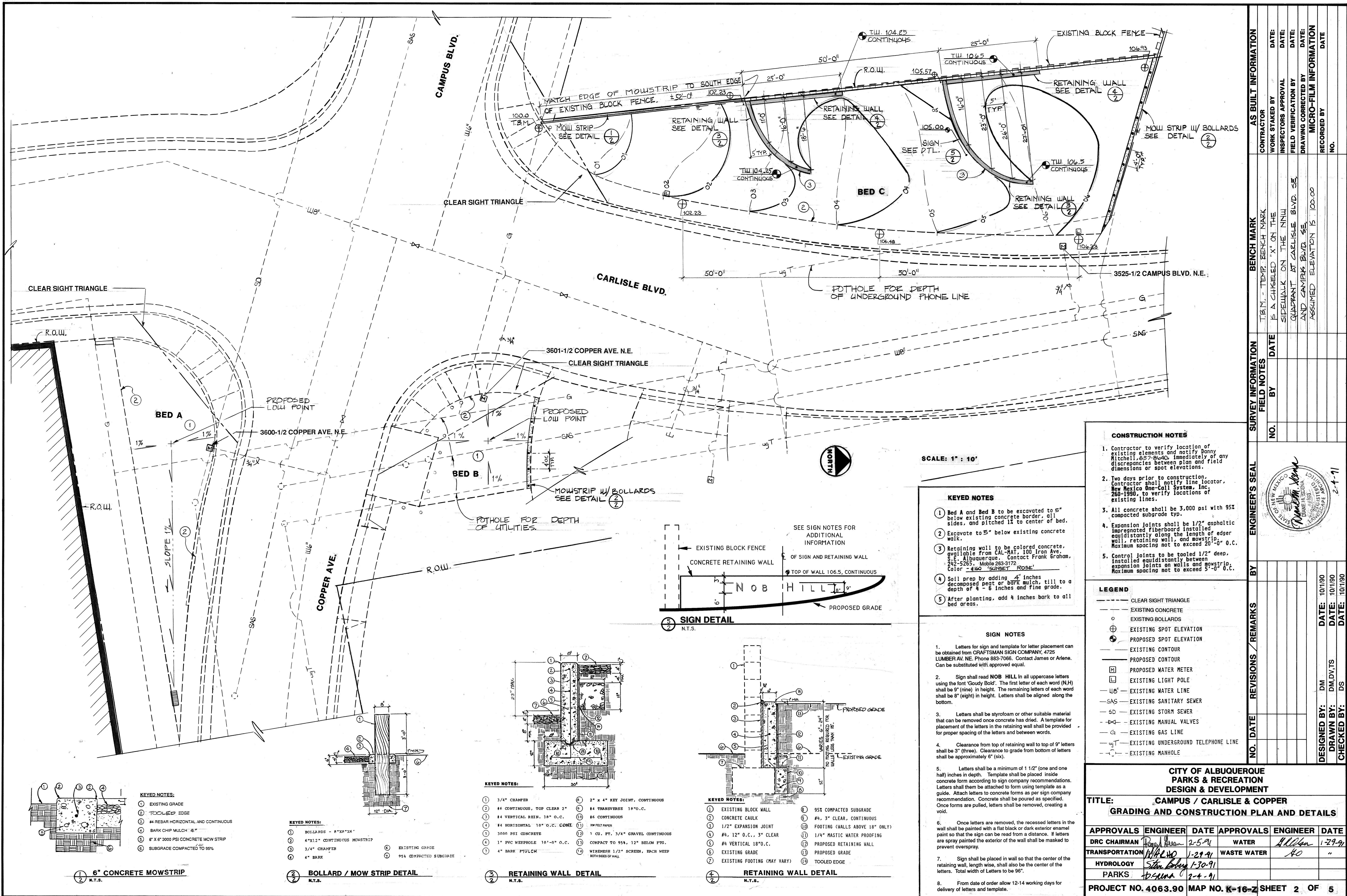
SHEET	DESCRIPTION
1	COVER SHEET
2	GRADING & CONSTRUCTION PLAN & DETAILS
3	IRRIGATION PLAN
4	IRRIGATION DETAILS
5	PLANTING PLAN & DETAILS

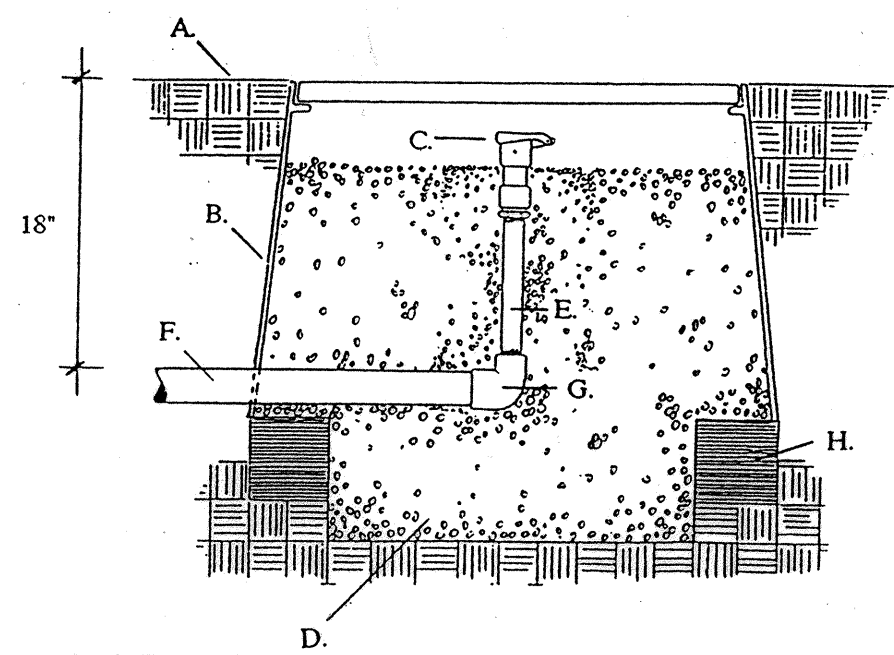


NOTICE TO CONTRACTOR

1. All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for herein, be constructed in accordance with City of Albuquerque Standard Specifications, Public Works Construction, 1986.
2. Two (2) working Days prior to any excavation, contractor must contact Line Locating Service, 260-4946, 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 so that the conflict can be resolved with a minimum amount of delay.

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
						APPROVED FOR CONSTRUCTION  2-5-91 DATE	
			PROJECT NUMBER				
			4063.90			SHEET 1 OF 5	





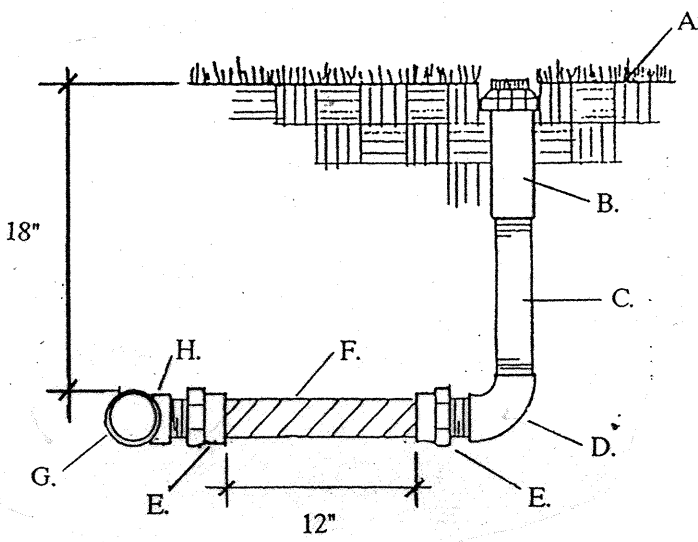
CONSTRUCTION NOTES

- A. Finish grade.
- B. Brooks Products, Inc., 1730 PB-18 Body (ABS) valve box with 1730 Bolt Down Cover (ABS) and one 8" extension.
- C. RainBird 33 DRC quick coupling valve.
- D. 1" diameter washed rock.
- E. 12" schedule 80 PVC riser.
- F. Irrigation mainline.
- G. Schedule 40 PVC ell SXT.
- H. 8" x 8" x 16" solid CMU block.

GENERAL NOTES

- 1. Install an 8" x 8" x 16" solid CMU block at each corner of the valve box.
- 2. Install 1 cubic foot of 1" diameter washed rock below the valve box. Extend washed rock up to collar of quick coupler valve.
- 3. Install a gate valve immediately upstream of quick coupler valve (Reference gate valve detail).

1 QUICK COUPLER VALVE
NTS



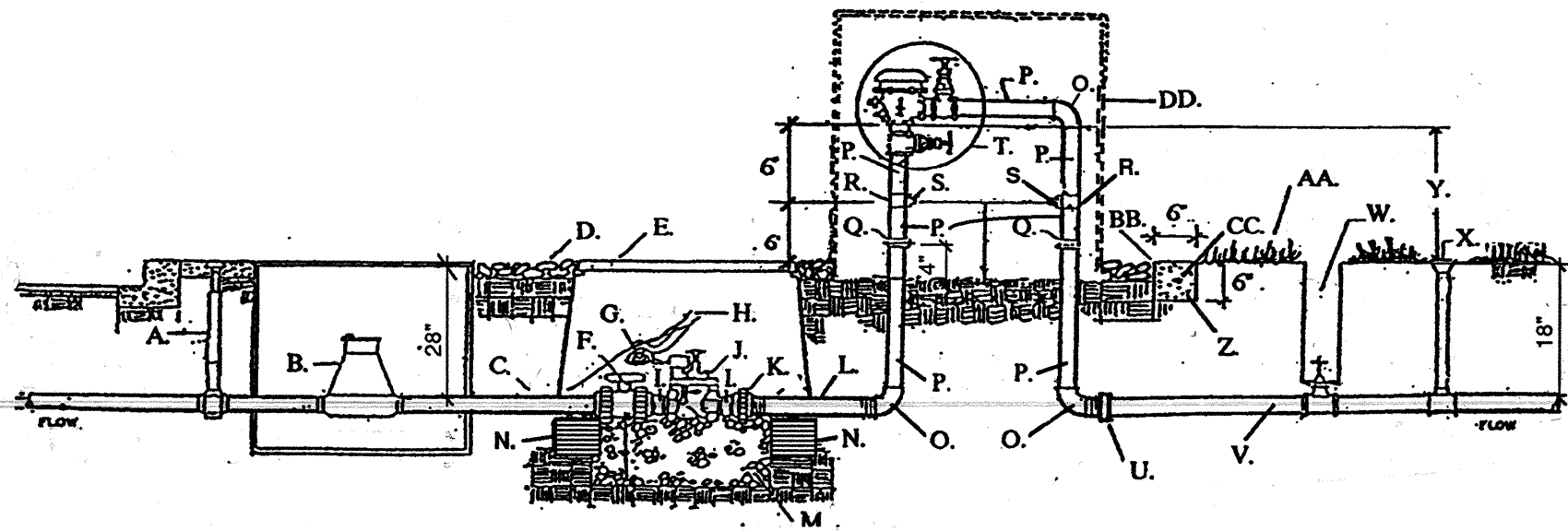
CONSTRUCTION NOTES

- A. Finish grade.
- B. Sprinkler head (reference the drawings).
- C. Sch. 80 PVC nipple. Length varies depending upon size of sprinkler head.
- D. Sch. 40 PVC threaded ell.
- E. Sch. 40 PVC MIP adapter.
- F. PVC flexible vinyl pipe, std. IPS from Agricultural Products Inc. (818-768-3303).
- G. Lateral pipe.
- H. Sch. 40 PVC SxSXT Tee or SXT ell.

GENERAL NOTES

- 1. This detail shall be used for pop-up shrub spray, pop-up lawn spray, gear driven and rotary sprinkler heads.
- 2. Lateral line pressure testing shall be completed prior to installation of flex pipe assembly. Lateral line testing shall be accomplished by installing a plug in the outlet of lateral line tees and ells.
- 3. Top of sprinkler head shall be set flush with finish grade.

4 SPRINKLER HEAD W/FLEXPIPE ASSEMBLY
NTS



GENERAL NOTES

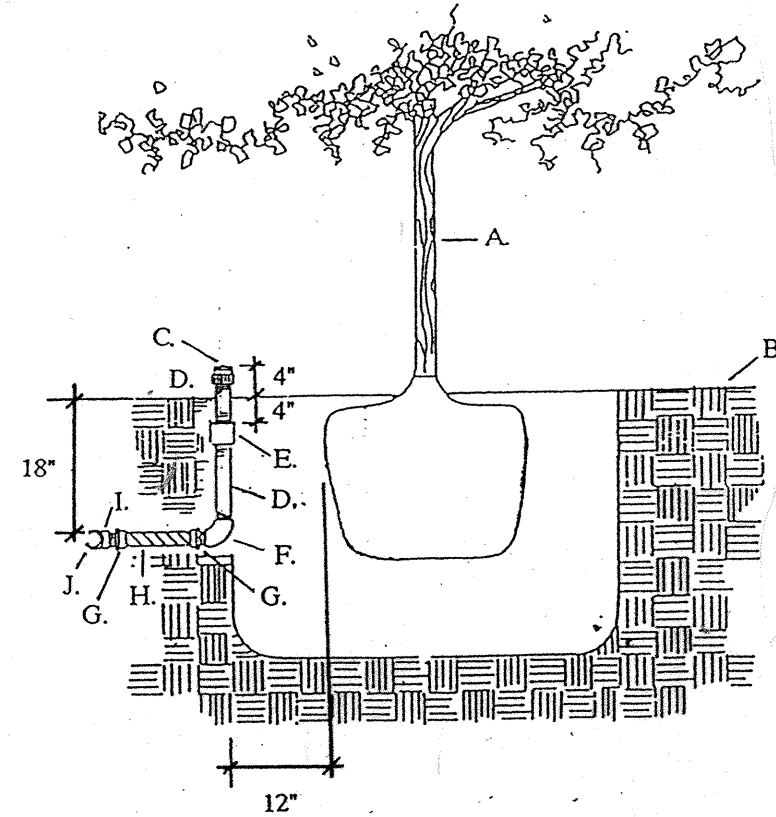
- 1. PVB's are unapproved for containment protection, except for lawn irrigation system.
- 2. Do not install in flood prone areas.
- 3. Do not install PVB's > 5' above ground level.
- 4. Protect PVB's from freezing w/ positive heat element. (Other means may be used with prior approval by administrative authority).
- 5. Horizontal PVB installation required. (Positioned as shown).
- 6. Joints to be adequately restrained.
- 7. Metallic riser piping required.
- 8. Install and 8" x 8" x 16" solid CMU block at each corner of the valve box.
- 9. Wash rock shall be installed flush with bottom of pipe.
- 10. Concrete mow strip shall be installed around the entire perimeter of the mastervalue and PVB assembly. Mow strip shall be a minimum of 12" from piping and valve box. (Optional, depending on application).

CONSTRUCTION NOTES

- A. Curb stop and box.
- B. Meter.
- C. Service line, no outlets allowed.
- D. 4" layer of bark mulch.
- E. Brooks Products Inc., 1730 PB-18 Body (ABS) valve box with 1730 Bolt Down Cover (ABS) and two 8" extensions.
- F. Spears True Union Schedule 80 PVC Ball Valve.
- G. 24" wire expansion coil.
- H. 3M Scotchlok.
- I. Schedule 80 PVC close nipple.
- J. Electric or manual valve (Reference Drawing).
- K. Spears Schedule 80 PVC Union.
- L. Schedule 80 PVC nipple.
- M. 1 cubic foot of 1" diameter washed rock.

- N. 8" x 8" x 16" solid CMU block.
- O. Galvanized ell.
- P. Galvanized nipple.
- Q. Galvanized union (minimum 4" above grade).
- R. Galvanized tee.
- S. Ball drain, Champion DV050 1/2".
- T. Pressure Vacuum Breaker backflow preventer. (Reference Drawing).
- U. PVC MIP adapter.
- V. Non-constant pressure irrigation mainline.
- W. Control valve (Reference DWG. 2703).
- X. Sprinkler.
- Y. 12" minimum above highest point of all downstream piping and outlets.
- Z. 3000 PSI concrete edger.
- AA. Finish grade.
- BB. Tooled edge.
- CC. #3 rebar horizontal and continuous.
- DD. Enclosure optional.

2 MASTERVALVE W/PVB
NTS



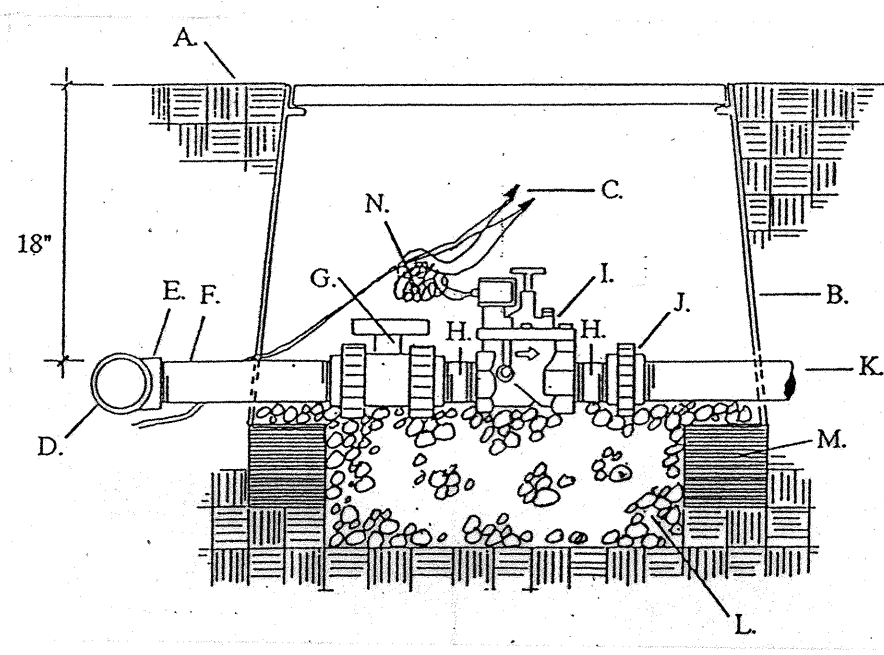
CONSTRUCTION NOTES

- A. Tree.
- B. Finish grade.
- C. Bubbler head (Reference the Drawing).
- D. Sch. 80 PVC nipple.
- E. Sch. 40 PVC threaded coupler.
- F. Sch. 40 PVC threaded ell.
- G. Sch. 40 PVC MIP adapter.
- H. PVC flexible vinyl pipe, std., IPS from Agricultural Products Inc. (818/768-3303).
- I. Schedule 40 PVC SxSXT tee or SXT ell.
- J. Lateral pipe.

GENERAL NOTES

- 1. Lateral line pressure testing shall be completed prior to installation of flex pipe assembly. Lateral line testing shall be accomplished by installing a plug in the outlet of lateral line tees and ells.
- 2. Bubbler shall always be installed on the uphill side of the tree.

5 BUBBLER HEAD AT TREE
NTS



CONSTRUCTION NOTES

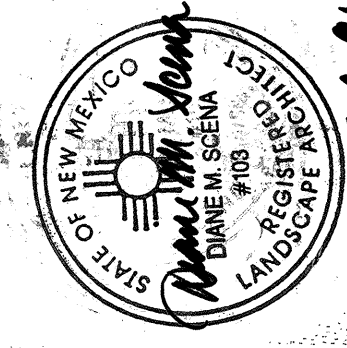
- A. Finish grade.
- B. Brooks Products Inc., 1730 PB-18 Body (ABS) valve box with 1730 Bolt Down Cover (ABS) and one 8" extension.
- C. 3M Scotchlok connectors.
- D. Irrigation mainline.
- E. Irrigation mainline service tee or ell.
- F. Schedule 80 PVC x 12" nipple.
- G. Spears True Union Schedule 80 PVC Ball Valve.
- H. Schedule 80 PVC close nipple.
- I. Electric Valve (Reference the Drawing).
- J. Spears Schedule 80 PVC Union.
- K. Lateral line.
- L. 1 cubic foot 1" diameter washed rock.
- M. 8" x 8" x 16" solid CMU block.
- N. 24" wire expansion coil.

GENERAL NOTES

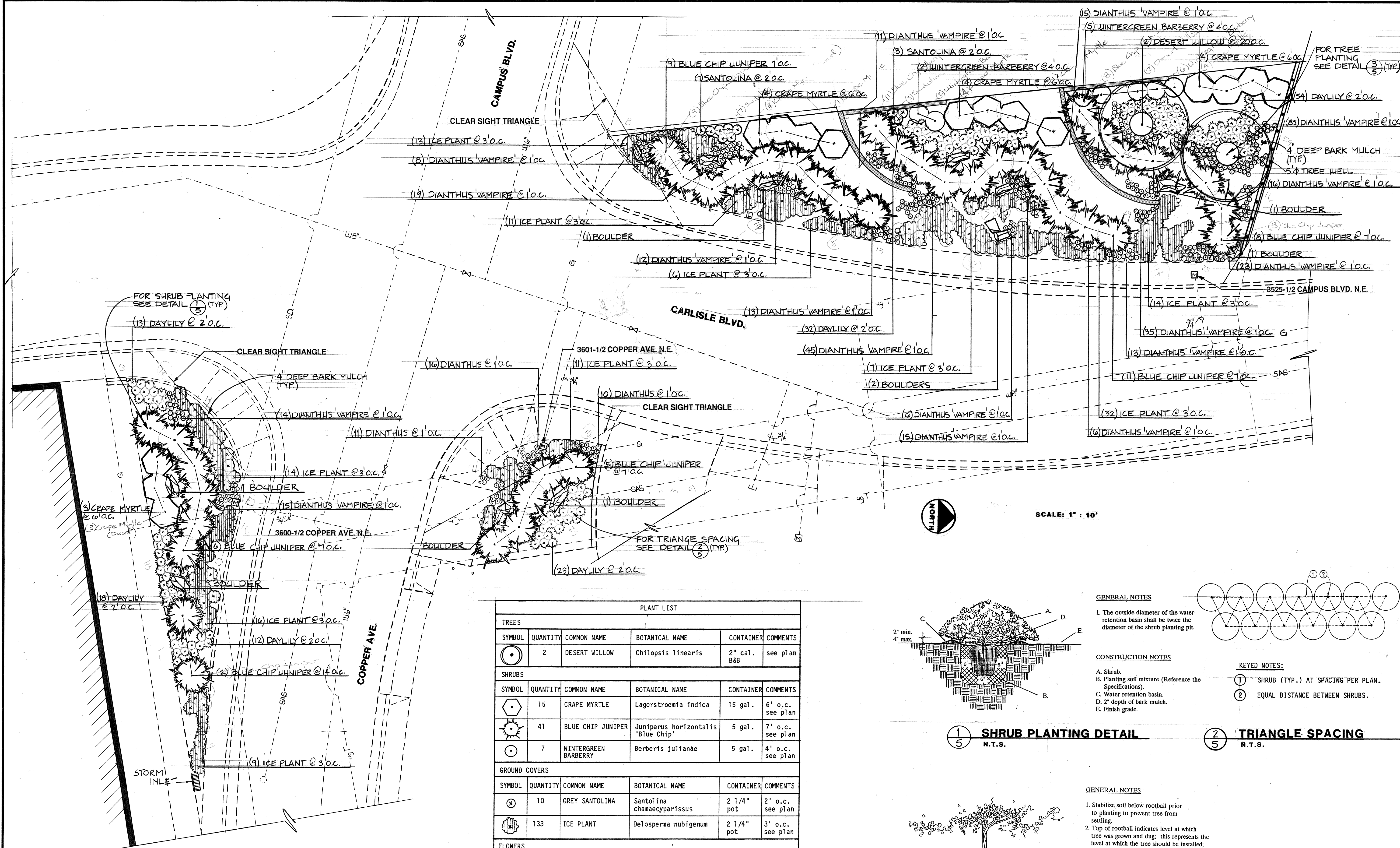
- 1. Install an 8" x 8" x 16" solid CMU block at each corner of the valve box.
- 2. Wash rock shall be installed flush with bottom of pipe and valve.

3 ELECTRIC CONTROL VALVE
NTS

NO. DATE			REVISIONS / REMARKS			BY	ENGINEER'S SEAL			SURVEY INFORMATION			BENCH MARK			AS BUILT INFORMATION		
										FIELD NOTES			SEE SHT. 2 OF 5					
						NO.				BY	DATE				CONTRACTOR			
															WORK STAKED BY			
															INSPECTORS APPROVAL			
															FIELD VERIFICATION BY			
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CITY OF ALBUQUERQUE PARKS & RECREATION DESIGN & DEVELOPMENT					
TITLE: CAMPUS/CARLISLE & COPPER IRRIGATION DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Roy R. Rios	2-5-91	WATER	Allison	1-29-91
TRANSPORTATION	N.H. Rios	1-29-91	WASTE WATER	NO	"
HYDROLOGY	Steve Boley	1-30-91			
PARKS	D. Schwa	2-4-91			
PROJECT NO. 4063.90		MAP NO. K-16-Z		SHEET 4 OF 5	



PLANT LIST					
TREES					
SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	CONTAINER	COMMENTS
	2	DESERT WILLOW	Chilopsis linearis	2" cal. B&B	see plan
SHRUBS					
SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	CONTAINER	COMMENTS
	15	GRAPE MYRTLE	Lagerstroemia indica	15 gal.	6' o.c. see plan
	41	BLUE CHIP JUNIPER	Juniperus horizontalis 'Blue Chip'	5 gal.	7' o.c. see plan
	7	WINTERGREEN BARBERRY	Berberis julianae	5 gal.	4' o.c. see plan
GROUND COVERS					
SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	CONTAINER	COMMENTS
	10	GREY SANTOLINA	Santolina chamaecyparissus	2 1/4" pot	2' o.c. see plan
	133	ICE PLANT	Delosperma nubigenum	2 1/4" pot	3' o.c. see plan
FLOWERS					
SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	CONTAINER	COMMENTS
	152	ORANGE DAYLILY	Hemerocallis liliaceae	2 1/4" pot	2' o.c. see plan triangle spacing
	388	DIANTHUS	Dianthus deltoides 'Vampire'	2 1/4" pot	2' o.c. see plan triangle spacing
HARD MATERIALS					
SYMBOL	QUANTITY	TYPE	SIZE	COMMENTS	
	9	MOSS ROCK BOULDERS	LARGE APPROX. 2'x4'	BURY 1/3 OF MASS IN GROUND	

PLANTING NOTES:

1. BOULDERS TO BE MOSS ROCK APPROX. 2'x4' IN SIZE PURCHASED FROM ROCKY MOUNTAIN STONE COMPANY 4741 PAN AMERICAN BLVD. N.E. PHONE NO. 345-8518. BOULDERS TO BE BURIED 1/3 OF ITS MASS IN GROUND.
2. FOR TREE PLANTING SEE DETAIL 
3. FOR SHRUB PLANTING SEE DETAIL 
4. GROUND COVERS & FLOWERS TO BE PLANTED IN A TRIANGLE SPACING ARRANGEMENT AS SHOWN ON PLAN SEE DETAIL 

GENERAL NOTES

1. The outside diameter of the water retention basin shall be twice the diameter of the shrub planting pit.

CONSTRUCTION NOTES

- A. Shrub.
- B. Planting soil mixture (Reference the Specifications).
- C. Water retention basin.
- D. 2" depth of bark mulch.
- E. Finish grade.

KEYED NOTES:

- ① SHRUB (TYP.) AT SPACING PER PLAN.
② EQUAL DISTANCE BETWEEN SHRUBS.

GENERAL NOTES

1. Stabilize soil below rootball prior to planting to prevent tree from settling.
2. Top of rootball indicates level at which tree was grown and dug; this represents the level at which the tree should be installed; that level may be exceeded by only a one inch layer of soil.
3. Prior to backfilling tree, all wire, rope and synthetic materials shall be removed from the tree and the planting pit.
4. Prior to backfilling all burlap shall be cut away from the rootball.

CONSTRUCTION NOTES

- A. Tree.
- B. Planting soil mixture (Reference the Specifications).
- C. Water retention basin.
- D. 4" depth of bark mulch.
- E. Finish grade.

SHRUB PLANTING DETAIL
N.T.S.

2 TRIANGLE SPACING
5 N.T.S.

3 **TREE PLANTING DETAIL**
5 N.T.S.

CITY OF ALBUQUERQUE PARKS & RECREATION DESIGN & DEVELOPMENT					
TITLE: CAMPUS / CARLISLE & COPPER PLANTING PLAN AND DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>Roger Sloan</i>	2-5-91	WATER	<i>J.R.L. Kim</i>	1-29-91
TRANSPORTATION	<i>N.H. Clark</i>	1-29-91	WASTE WATER	<i>AO</i>	"
HYDROLOGY	<i>Steve Foley</i>	1-30-91			
PARKS	<i>Desmond</i>	2-4-91			
PROJECT NO. 4063.90 MAP NO. K-16-Z SHEET 5 OF 5					