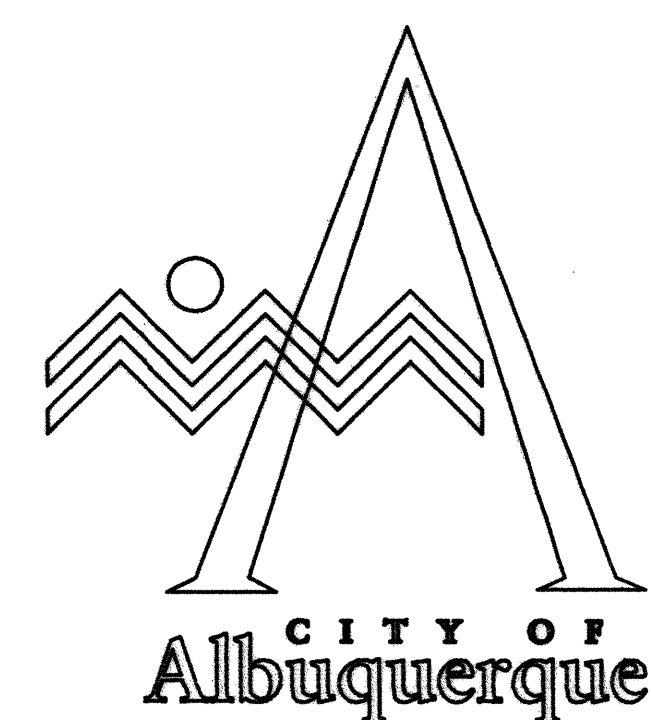


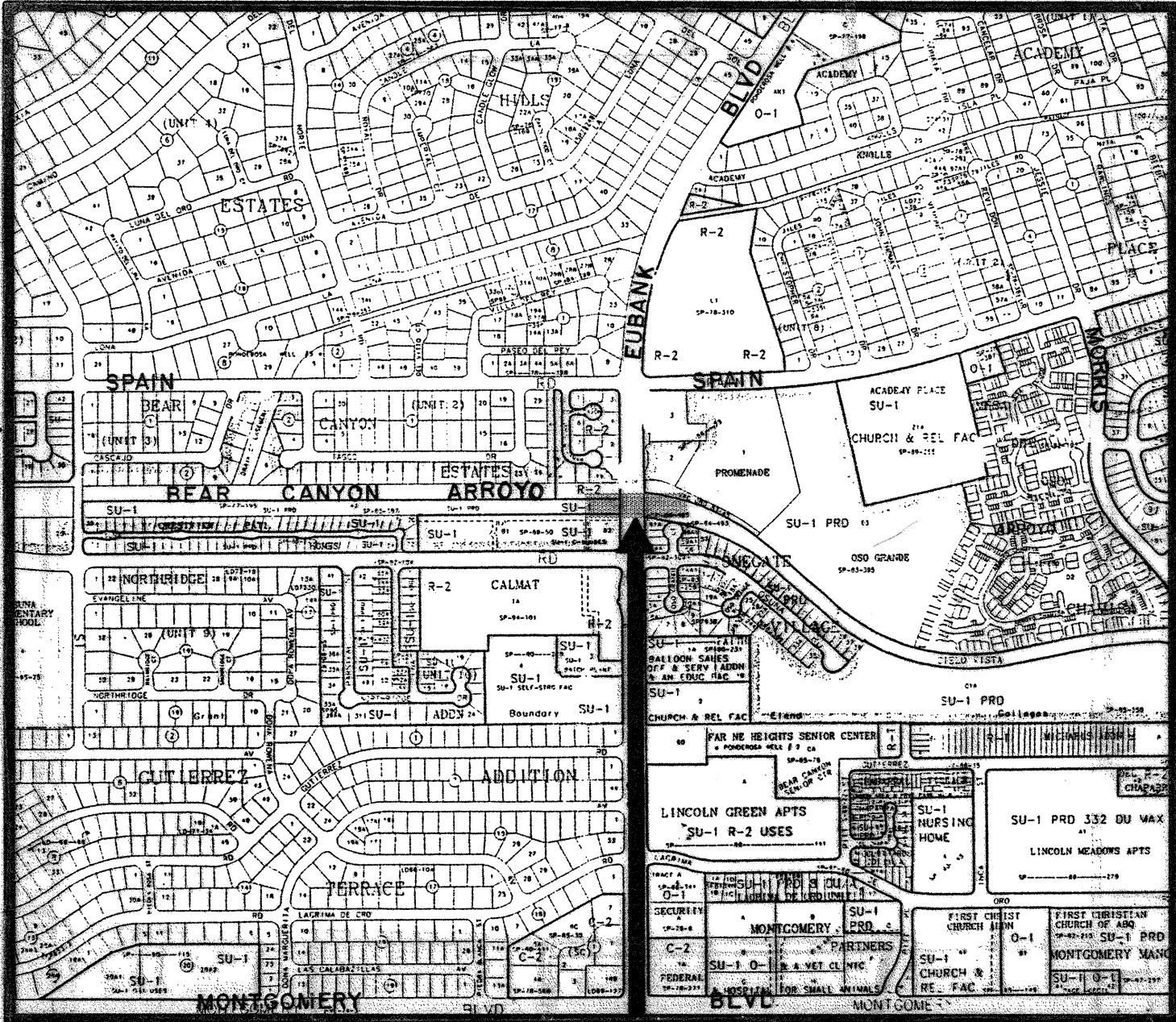
CITY OF ALBUQUERQUE  
DIVERSE DRAINAGE IMPROVEMENTS  
BEAR CANYON ARROYO AT EUBANK BLVD

MARCH 1998



INDEX OF DRAWINGS

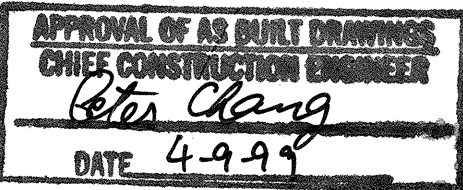
| SHEET NO. | DESCRIPTION                                     |
|-----------|---|
| 1         | COVER SHEET, INDEX OF DRAWINGS AND LOCATION MAP |
| 2         | LEGEND, ABBREVIATIONS AND GENERAL NOTES         |
| 3         | PLAN AND PROFILE                                |
| 4         | STRUCTURE DETAILS                               |
| 5         | STRUCTURE DETAILS                               |



PROJECT LOCATION

LOCATION MAP

1"=350'  
(ZONE ATLAS MAP NO F20, 21  
ADDRESS: ALBUQUERQUE, NEW MEXICO



**LH** LEEDSHILL—HERKENHOFF, INC  
500 Copper Avenue NW  
P.O. Box 1217  
Albuquerque, NM 87103  
(505)247-0294

RECORD DRAWING  
MAR 3 1999  
These drawings have been revised based on the construction records of the owner. While the information submitted by the Owner will be assumed to be reliable, the Engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record document as a result thereof.

| REV.                         | SHEET | CITY ENGINEER    | DATE | USER DEPARTMENT | DATE    | USER DEPARTMENT           | DATE |
|------------------------------|-------|------------------|------|-----------------|---------|---------------------------|------|
| ENGINEER'S STAMP & SIGNATURE |       | APPROVALS        |      | ENGINEER        | DATE    | *****                     |      |
|                              |       | DRC Chairman     |      | Billie L. Lusk  | 8/7/98  | APPROVED FOR CONSTRUCTION |      |
|                              |       | Transportation   |      | Rita B. B...    | 8/7/98  |                           |      |
|                              |       | Water/Wastewater |      | Rita B. B...    | 7/10/98 |                           |      |
|                              |       | Hydrology        |      | Monny           | 5/14/98 |                           |      |
|                              |       | Parks            |      | N/A             |         |                           |      |
|                              |       | Const. Mngmt.    |      | Eter Chang      | 8-11-98 |                           |      |
|                              |       | Const. Coord.    |      | Yol. R...       | 8-11-98 | City Engineer Date        |      |
|                              |       | City Project No. |      | 4880.91         |         | Sheet 1 Of 5              |      |



## LEGEND

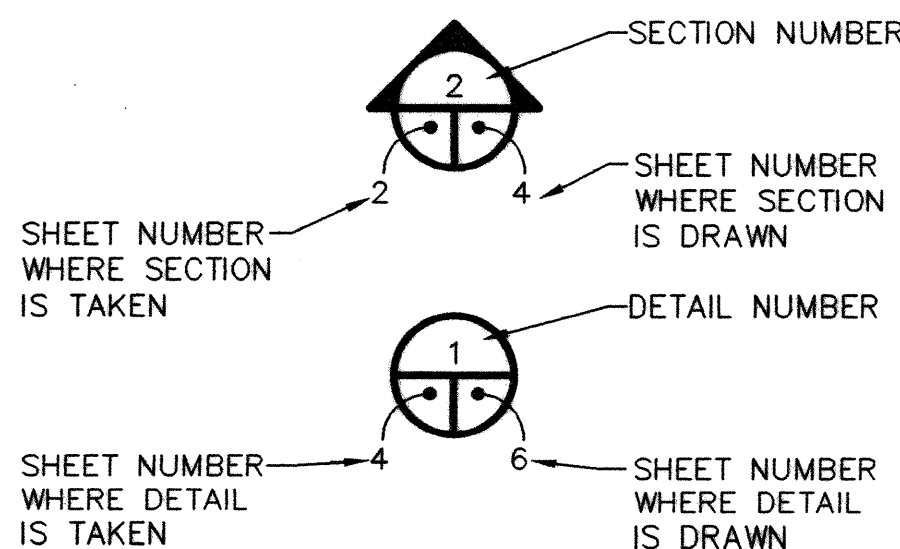
| PROPOSED | EXISTING | DESCRIPTION  |
|----------|----------|--|
|          |          | SANITARY SEWER MANHOLE   |
|          |          | STORM DRAIN MANHOLE  |
| NA       | NA       | WATER MANHOLE  |
| NA       |          | TELEPHONE MANHOLE  |
|          |          | SANITARY SEWER LINE WITH SIZE AND TYPE                                   |
|          |          | STORM DRAIN LINE WITH SIZE AND TYPE                                      |
|          |          | WATER LINE WITH SIZE AND TYPE  |
| NA       |          | OVERHEAD ELECTRICAL LINE   |
| NA       |          | UNDERGROUND ELECTRICAL/TRAFFIC CONTROL                                   |
| NA       |          | UNDERGROUND TELEPHONE  |
| NA       |          | GAS LINE WITH SIZE AND TYPE  |
| NA       |          | CABLE TELEVISION LINE  |
|          |          | ENCASEMENT   |
|          |          | STORM DRAIN INLET (GRADE ELEVATION GIVEN IN PLANS IS EXTENDED FLOW LINE) |
| NA       |          | GATE VALVE   |
| NA       |          | BUTTERFLY VALVE  |
|          |          | FIRE HYDRANT   |
| NA       |          | REDUCER  |
| NA       |          | SANITARY SEWER SERVICE CONNECTION  |
| NA       |          | WATER SERVICE CONNECTION   |
| NA       |          | TEE  |
| NA       |          | CROSS  |
| NA       |          | BEND   |
| NA       |          | CAP AND PLUG   |
| NA       |          | WATER METER  |
| NA       |          | VALVE BOX  |
| NA       |          | POWER POLE   |
| NA       |          | LIGHT POLE   |
| NA       |          | TRAFFIC LIGHT  |
| NA       |          | TRAFFIC CONTROL BOX  |
| NA       |          | PULL BOX   |
| NA       |          | TELEPHONE BOOTH  |
|          |          | PCC CURB AND GUTTER  |
| NA       |          | AC CURB  |
| NA       |          | SIDEWALK   |
| NA       |          | BLOCK WALL   |
| NA       |          | CHAIN LINK FENCE   |
| NA       |          | FIELD FENCE  |
| NA       |          | SPOT ELEVATION   |
| NA       |          | EDGE OF AC PAVEMENT  |
| NA       |          | RIGHT OF WAY LINES   |
| NA       |          | PROPERTY LINE (SIDE)   |
| NA       |          | PUBLIC EASEMENT LINE   |
| NA       |          | RIPRAP   |
|          |          | LIGHT POLE BASE  |
|          |          | RESIDENTIAL PAVING   |
|          |          | ARTERIAL PAVING  |
|          |          | CONCRETE PAVING  |
|          |          | CONCRETE REMOVAL   |
|          |          | WHEELCHAIR RAMP  |
|          |          | SWALE  |
|          |          | CONTOURS   |
| NA       |          | REMOVE ITEM  |

## GENERAL NOTES

- A ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS 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, AS AMENDED, THROUGH UPDATE #6 (REFERRED TO HEREINAFTER AS THE STANDARD SPECIFICATIONS). THE STANDARD SPECIFICATIONS CONTAIN THE CITY STANDARD DRAWINGS.
- B CONSTRUCTION WILL LIKELY BE OCCURRING DURING STORM EVENTS. CONTRACTOR MUST MAKE PROVISIONS TO PROTECT EXISTING STORM DRAIN FACILITIES AS WELL AS TO PROTECT NEW CONSTRUCTION DURING STORMS.
- C CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES TO BE RELOCATED AS SHOWN ON THESE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE UTILITY IS FOUND TO BE DIFFERENT BY MORE THAN 1(ONE) FOOT VERTICALLY OR 3(THREE) FEET HORIZONTALLY, THAN SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- D THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS ARE AN APPROXIMATION TO SHOW AREAS OF ANTICIPATED PAVEMENT, CURB AND GUTTER AND/OR OTHER SURFACE REMOVAL. THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS SHALL GOVERN FOR PAYMENT PURPOSES.
- E ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE ENGINEER.
- F THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION DEBRIS. ANY MATERIAL TO BE SALVAGED SHALL BE IDENTIFIED BY THE ENGINEER. WORK MATERIALS SHALL BE DISPOSED OF IN CITY APPROVED WASTE AREAS SECURED BY, AND AT THE EXPENSE OF, THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WEEKLY REFUSE REMOVAL WITH THE CITY SOLID WASTE DEPARTMENT, AS NECESSARY.
- G EQUIPMENT AND MATERIALS ARE NOT TO BE STORED WITHIN THE STREET RIGHT OF WAY OR WITHIN 15 FEET OF A TRAFFIC LANE DURING NON-WORKING HOURS.
- H THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
- I ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- J THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVING OR CURB AND GUTTER DURING CONSTRUCTION, APART FROM THOSE SIDEWALK, WHEELCHAIR RAMPS SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR AND REPLACE SAME AT HIS OWN EXPENSE. THE CONTRACTOR SHALL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND SHALL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.
- K WHEN ABUTTING NEW PAVEMENT TO EXISTING, CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE, AS REQUIRED, TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND TO MATCH NEW TO EXISTING.
- L ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURBS AND GUTTERS ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.
- M ALL EXISTING MANHOLES AND VALVE BOXES WITHIN THE CONSTRUCTION LIMITS SHALL BE ADJUSTED TO THE NEW FINISH GRADE.
- N THE RELOCATION OF THE EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES SHALL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT SHALL BE PLACED AS REQUIRED IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE PERMANENT PAVEMENT WORK STARTS IN THAT AREA. TEMPORARY STRIPING SHALL BE THE CONTRACTORS RESPONSIBILITY.
- P ALL REFERENCE TO CURB AND GUTTER IS TO STANDARD CURB AND GUTTER UNLESS OTHERWISE NOTED.
- Q TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATION SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- R EXCAVATIONS SHALL BE EXCAVATED, BRACED AND SHEETED TO PROVIDE COMPLETE SAFETY TO PERSONS WORKING THEREIN. BRACING SHALL COMPLY WITH ALL OSHA AND OTHER APPLICABLE STATE AND LOCAL LAWS AND ORDINANCES.
- S THE CONTRACTOR SHALL EXERCISE CARE TO AVOID DISTURBING EXISTING UNDERGROUND UTILITIES. IT SHALL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION.
- T ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS SHALL BE MAINTAINED IN SERVICE. SHORING, SHEETING, AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS SHALL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES SHALL PROMPTLY BE REPAIRED AT THE CONTRACTORS EXPENSE. THE ENGINEER WILL BE IMMEDIATELY NOTIFIED OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.
- U THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING UTILITY RELOCATIONS WITH APPROPRIATE PRIVATE UTILITY COMPANIES, AS FOLLOWS:  
 PNM - DICK HAMRIC - (505)848-3451  
 GAS COMPANY OF NEW MEXICO - TIM CYNOWA - (505)761-7775  
 US WEST - BECKY OLSEN - (505)245-6694  
 CABLE TV - RITA ERICKSON - (505)761-6235  
 CITY WATER - (505)857-8200  
 CITY SANITARY SEWER - (505)873-6200  
 THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS.
- V ALL ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. REFER TO SECTION 18 OF THE SPECIFICATIONS.
- W THE CONTRACTOR SHALL FIELD VERIFY ALL WATERLINE CONNECTIONS TO EXISTING FACILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO ALLOW OBTAINING CORRECT ADAPTERS AND OTHER FITTINGS.
- X TEMPORARY WATER SERVICES ARE TO BE PROVIDED FOR ANY RESIDENCE OR BUSINESS WHICH WILL BE OUT OF SERVICE MORE THAN FOUR HOURS.
- Y ALL WATER CONNECTIONS ARE NON PRESSURIZED CONNECTIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- Z ALL WATER SERVICE LINES WHICH ARE TO BE EXTENDED OR REPLACED SHALL BE THE SAME SIZE AS THE METER.
- AA THE CONTRACTOR SHALL NOTIFY WATER SYSTEMS DIVISIONS OF PUBLIC WORKS (PH. 857-8200) AT LEAST FIVE WORKING DAYS IN ADVANCE OF ANY WATERLINE NEEDING TO BE SHUT OFF. REFER TO SECTION 18 OF THE GENERAL CONDITIONS.
- BB CONTRACTOR SHALL UTILIZE MECHANICALLY-RESTRAINED JOINTS IN LIEU OF BLOCKING FOR WATER LINES.
- CC MAXIMUM ANTICIPATED LIMITS OF CONSTRUCTION AND PAYMENT LIMIT IS SHOWN ONLY FOR THOSE AREAS WHICH HAVE MAJOR IMPACT ON TRAFFIC CONTROL. IN OTHER AREAS THE CONTRACTOR SHALL USE HIS OWN JUDGMENT OF CONSTRUCTION LIMITS AND RECEIVE PRIOR APPROVAL FROM ENGINEER. LIMITS MUST NOT CROSS THE RIGHT-OF-WAY.
- DD PRIOR TO THE REMOVAL OF ANY PAVEMENT, CURB AND GUTTER, ETC., THE ROADWAY SHALL BE SURVEYED TO ENSURE RESTORATION OF PROPER GRADES, CROWN AND ELEVATIONS. THE CONTRACTOR SHALL REMOVE AND REPLACE SHORT (LESS THAN 6') EXISTING SECTIONS OF PAVEMENT AND CURB AND GUTTER REMAINING AFTER PRIMARY REMOVALS ARE COMPLETED.
- EE COORDINATE INTERMITTANT SINGLE LANE CLOSURE ON EUBANK BLVD WITH CONSTRUCTION COORDINATION DIVISION, CITY OF ALBUQUERQUE, (768-2551).
- FF RIGHT OF WAY SHOWN FOR INFORMATION ONLY IS BASED ON RECORD DISTANCES AND NOT BASED ON A PROPERTY SURVEY.

## ABBREVIATIONS

|         |                             |     |                                      |      |                      |
|---------|-----------------------------|-----|--------------------------------------|------|----------------------|
| AC      | ASPHALTIC CONCRETE          | L   | LENGTH/ANGLE                         | RT   | RIGHT                |
| APPROX  | APPROXIMATELY               | LB  | POUND                                | S    | SLOPE/SOUTH          |
| CATV    | CABLE TELEVISION            | LLV | LONG LEG VERTICAL                    | SAS  | SANITARY SEWER       |
| CFS     | CUBIC FEET PER SECOND       | LF  | LINEAR FOOT                          | SD   | STORM DRAIN          |
| Y       | CENTER LINE                 | LT  | LEFT                                 | SE   | SOUTHEAST            |
| Y CONST | CENTER LINE OF CONSTRUCTION | MH  | MANHOLE                              | STA  | STATION              |
| CLR     | CLEAR                       | N   | NORTH                                | STD  | STANDARD             |
| COA     | CITY OF ALBUQUERQUE         | NO  | NUMBER                               | TAN  | TANGENT              |
| DIA     | DIAMETER                    | OD  | OUTSIDE DIAMETER                     | TC   | TOP OF CURB          |
| DWG     | DRAWING                     | OPP | OPPOSITE                             | TELE | TELEPHONE            |
| E       | EAST                        | PC  | POINT OF CURVE                       | TG   | TOP OF GRAVEL        |
| EG      | EXISTING GRADE              | PED | PEDESTAL                             | TOR  | TOP OF RIPRAP        |
| EL      | ELEVATION                   | PI  | POINT OF INTERSECTION                | TOS  | TOP OF SLAB          |
| ELEC    | ELECTRIC                    | PL  | PLATE                                | TOW  | TOP OF WALL          |
| EP      | EDGE OF PAVEMENT            | PNM | PUBLIC SERVICE COMPANY OF NEW MEXICO | TYP  | TYPICAL              |
| FL      | FLOW LINE ELEVATION/FLANGE  | PT  | POINT OF TANGENCY                    | UE   | UNDERGROUND ELECTRIC |
| FPS     | FEET PER SECOND             | PVC | POLYVINYL CHLORIDE                   | V    | VELOCITY             |
| HGL     | HYDRAULIC GRADE LINE        | Q   | FLOW RATE                            | VERT | VERTICAL             |
| HORIZ   | HORIZONTAL                  | RCP | REINFORCED CONCRETE PIPE             | W    | WEST                 |
| HP      | HIGH PRESSURE               | ROW | RIGHT-OF-WAY                         | WL   | WATER LINE           |
| INV     | INVERT                      |     |                                      |      |                      |

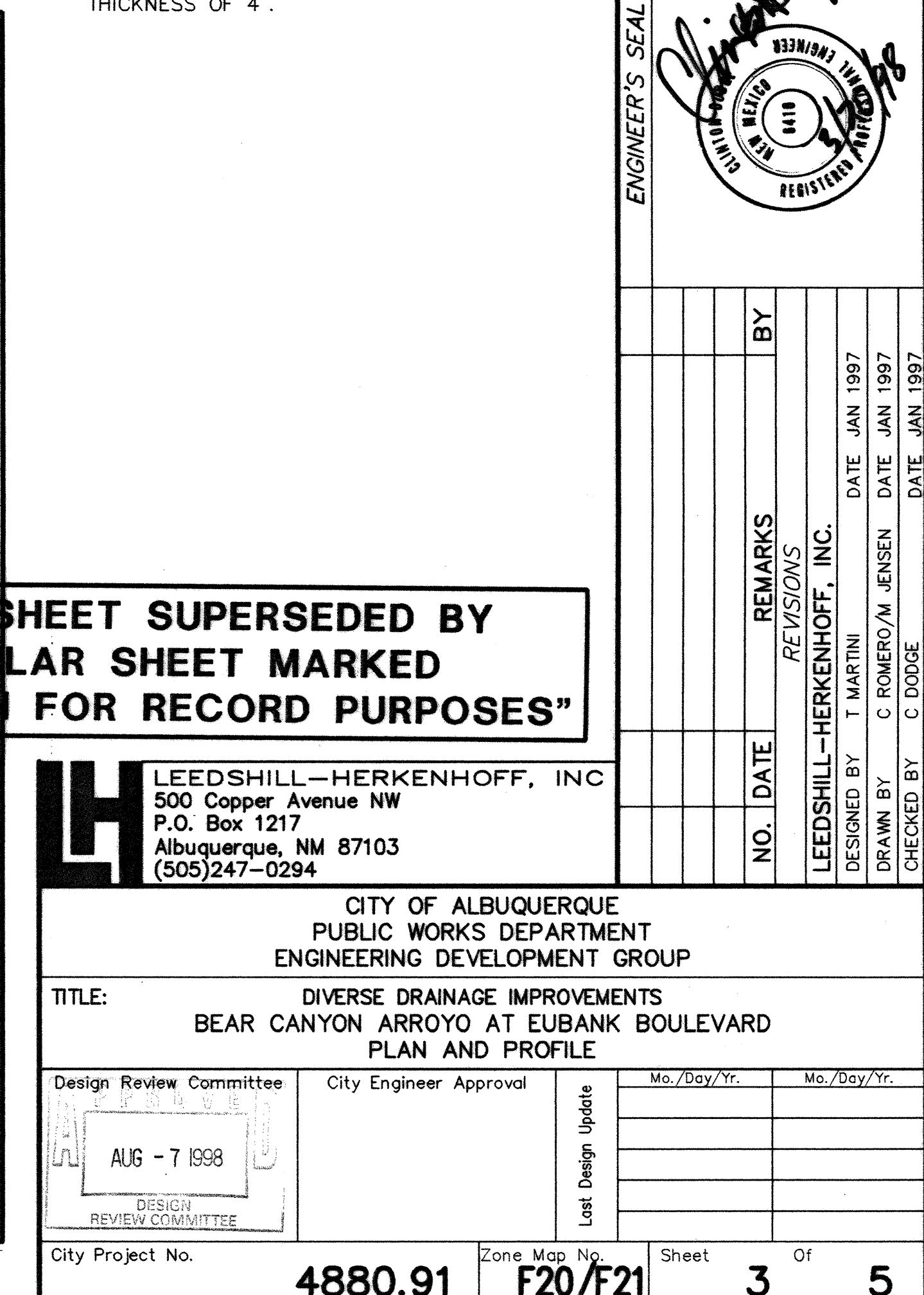
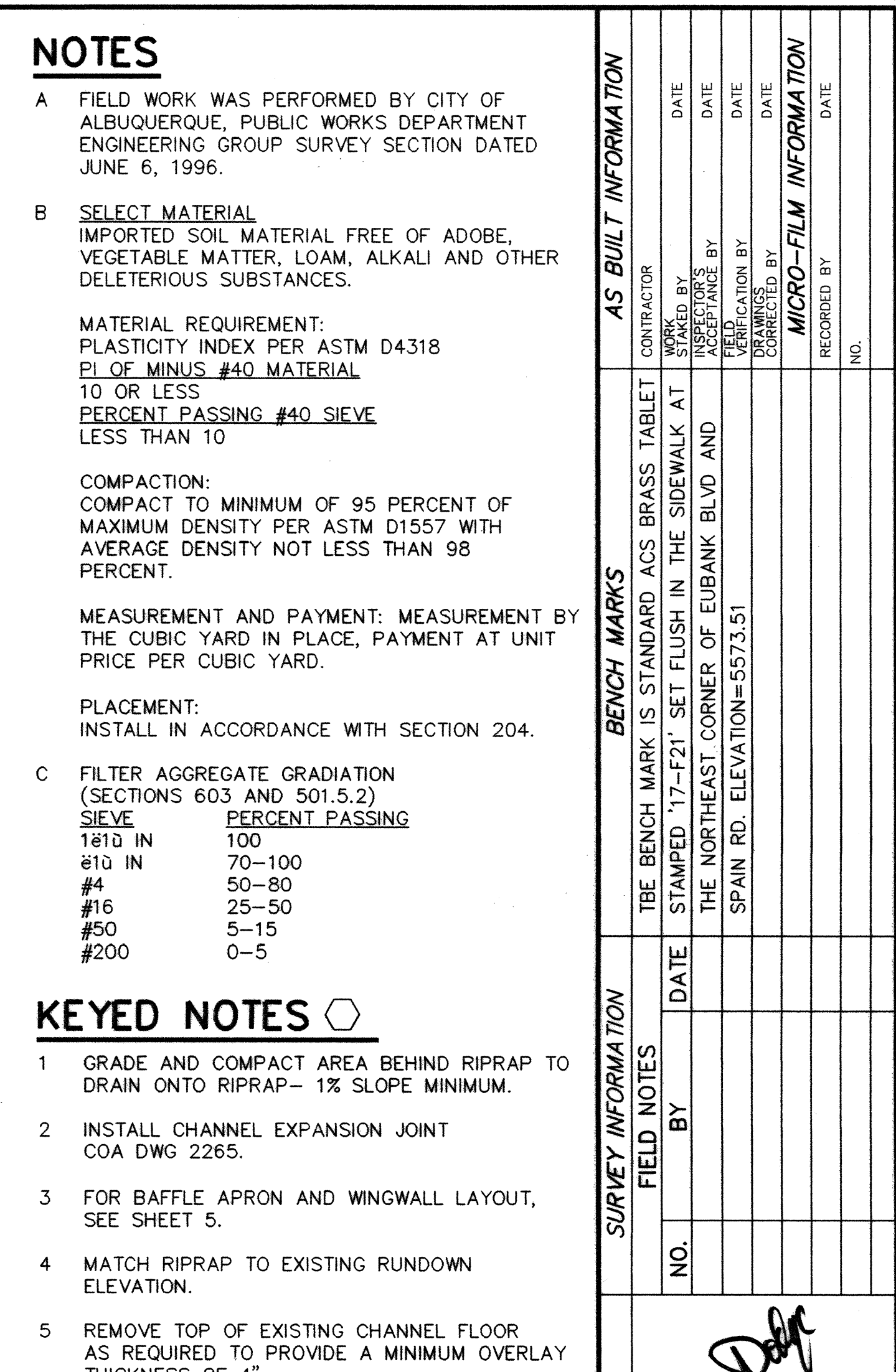


## RECORD DRAWING

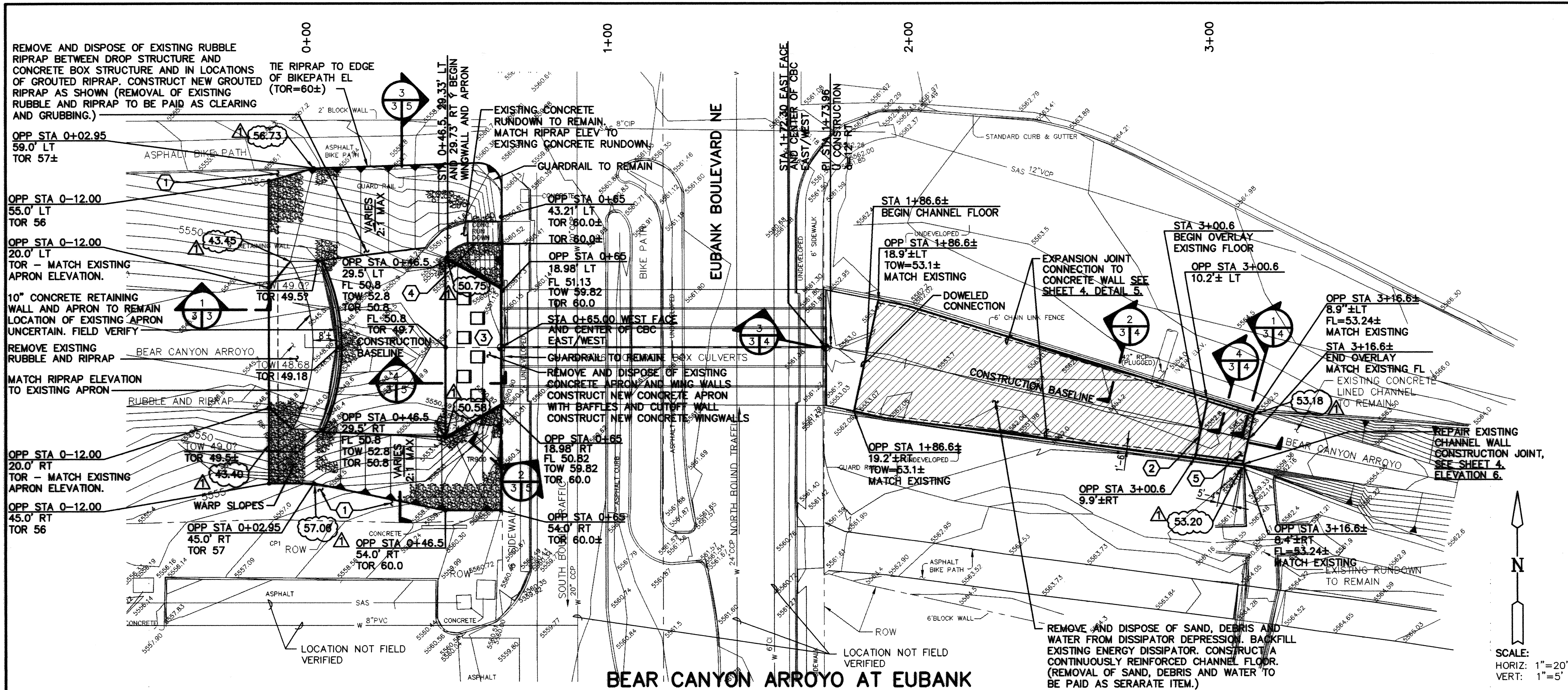
These drawings have been revised based on the construction records of the owner. While the information submitted by the owner will be assumed to be reliable, the engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record document as a result thereof.

|  |                        |  |             |
|--|------------------------|--|-------------|
| <b>LEEDSHILL-HERKENHOFF, INC.</b><br>500 Copper Avenue NW<br>P.O. Box 1217<br>Albuquerque, NM 87103<br>(505)247-0294       |                        | <b>CITY OF ALBUQUERQUE</b><br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP |             |
| TITLE: DIVERSE DRAINAGE IMPROVEMENTS<br>BEAR CANYON ARROYO AT EUBANK BOLULEVARD<br>LEGEND, ABBREVIATIONS AND GENERAL NOTES |                        |  |             |
| Design Review Committee<br><b>APPROVE</b><br>AUG - 7 1998  | City Engineer Approval | Mo./Day/Yr.  | Mo./Day/Yr. |
| City Project No. <b>4880.91</b>  | Zone Map No. <b>-</b>  | Sheet <b>2</b>   | Of <b>5</b> |









## NOTES

- A FIELD WORK WAS PERFORMED BY CITY OF ALBUQUERQUE, PUBLIC WORKS DEPARTMENT ENGINEERING GROUP SURVEY SECTION DATED JUNE 6, 1996.
- B SELECT MATERIAL  
IMPORTED SOIL MATERIAL FREE OF ADOBE, VEGETABLE MATTER, LOAM, ALKALI AND OTHER DELETERIOUS SUBSTANCES.

MATERIAL REQUIREMENT:  
PLASTICITY INDEX PER ASTM D4318  
PI OF MINUS #40 MATERIAL  
10 OR LESS  
PERCENT PASSING #40 SIEVE  
LESS THAN 10

COMPACTION:  
COMPACT TO MINIMUM OF 95 PERCENT OF MAXIMUM DENSITY PER ASTM D1557 WITH AVERAGE DENSITY NOT LESS THAN 98 PERCENT.

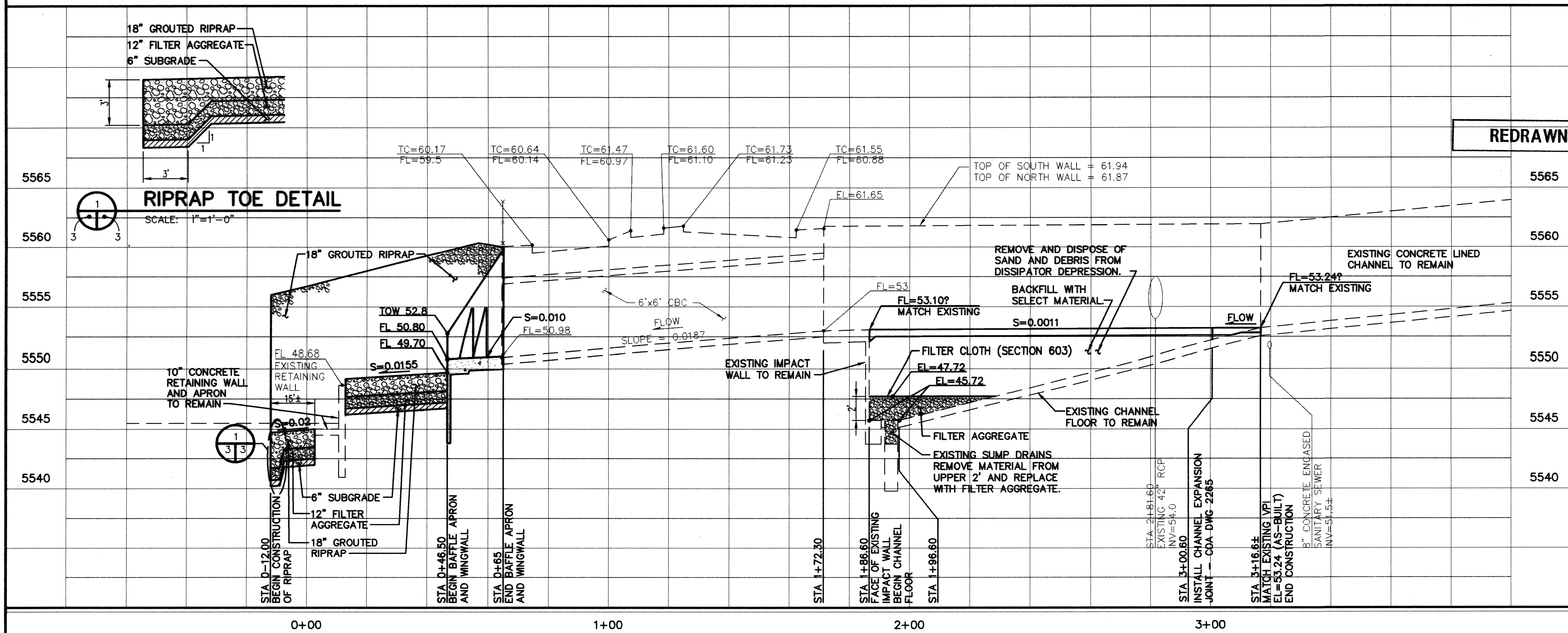
MEASUREMENT AND PAYMENT: MEASUREMENT BY THE CUBIC YARD IN PLACE, PAYMENT AT UNIT PRICE PER CUBIC YARD.

PLACEMENT:  
INSTALL IN ACCORDANCE WITH SECTION 204.

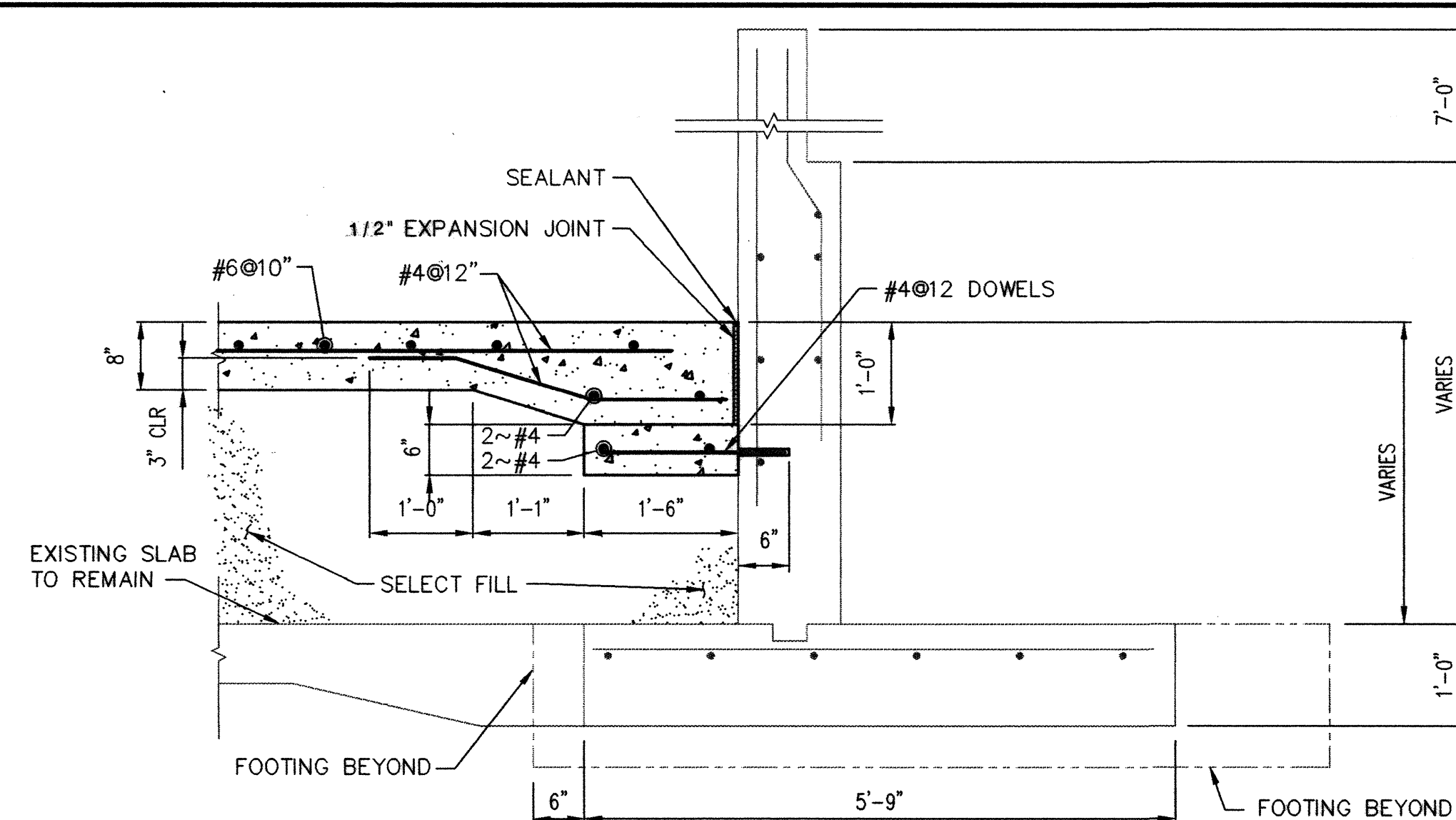
- C FILTER AGGREGATE GRADATION  
(SECTIONS 603 AND 501.5.2)
- | SIEVE | PERCENT PASSING |
|-------|-----------------|
| 10 IN | 100             |
| 40 IN | 70-100          |
| #4    | 50-80           |
| #16   | 25-50           |
| #50   | 5-15            |
| #200  | 0-5             |

## KEYED NOTES

- GRADE AND COMPACT AREA BEHIND RIPRAP TO DRAIN ONTO RIPRAP - 1% SLOPE MINIMUM.
- INSTALL CHANNEL EXPANSION JOINT COA DWG 2265.
- FOR BAFFLE APRON AND WINGWALL LAYOUT, SEE SHEET 5.
- MATCH RIPRAP TO EXISTING RUNDOWN ELEVATION.
- REMOVE TOP OF EXISTING CHANNEL FLOOR AS REQUIRED TO PROVIDE A MINIMUM OVERLAY THICKNESS OF 4".

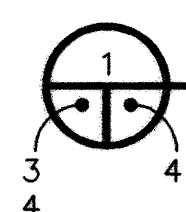




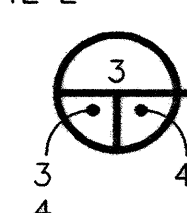


STA 1+86.60 TO 2+92.60

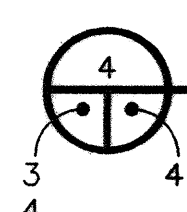
## EXPANSION JOINT TIE TO EXISTING CONCRETE WALL



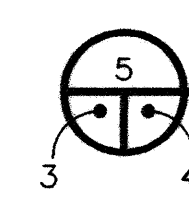
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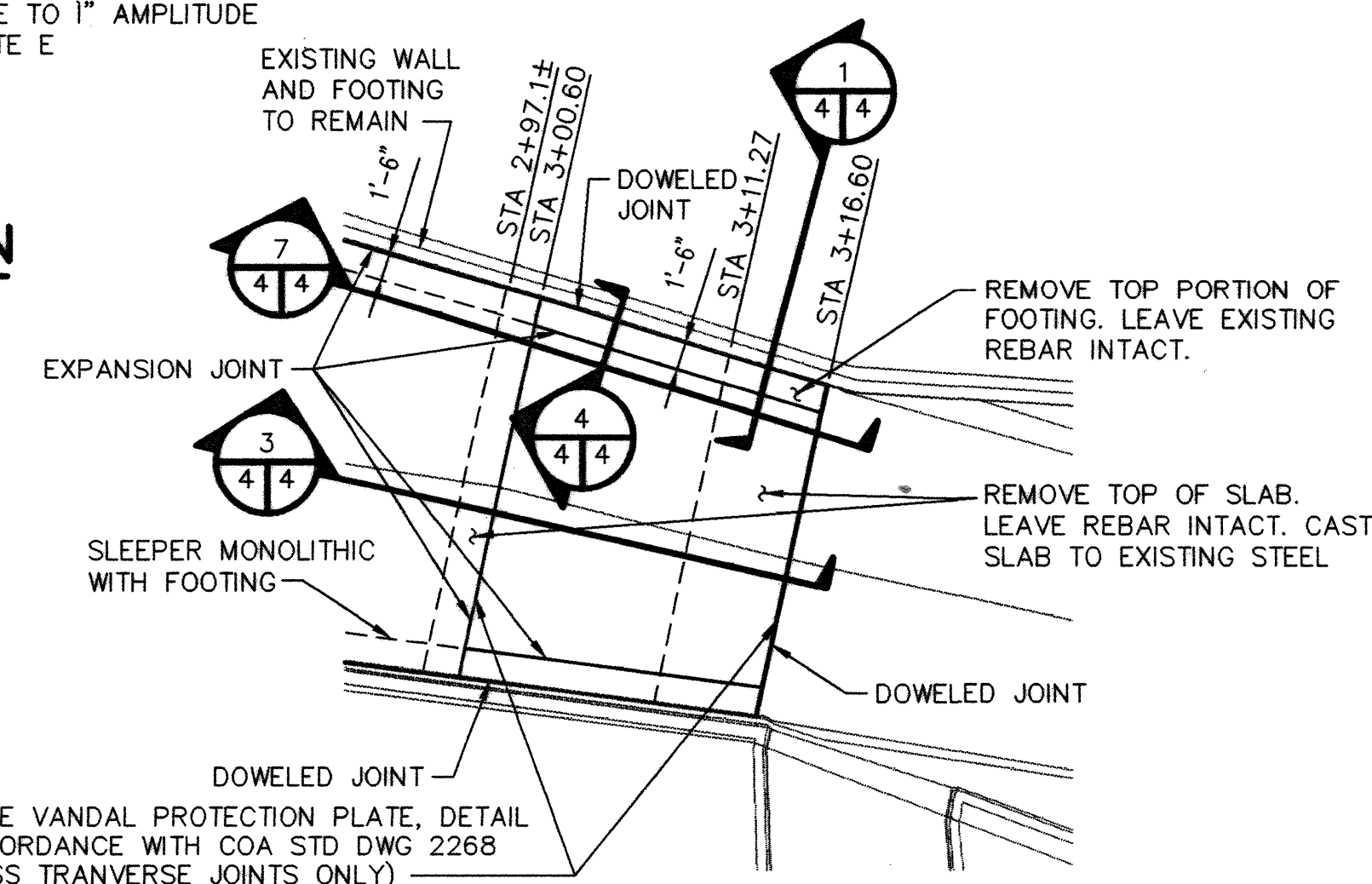
SCALE: 3/4" = 1'-0"



SCALE:  $3/4" = 1'-0"$



NOT TO SCALE



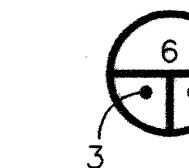
REMOVE SPALLING  
CONCRETE AND  
PATCH WITH  
REPAIR MORTAR

CUT EXISTING  
DOWELS (TYP)

CUT EXISTING  
DOWELS (TYP)

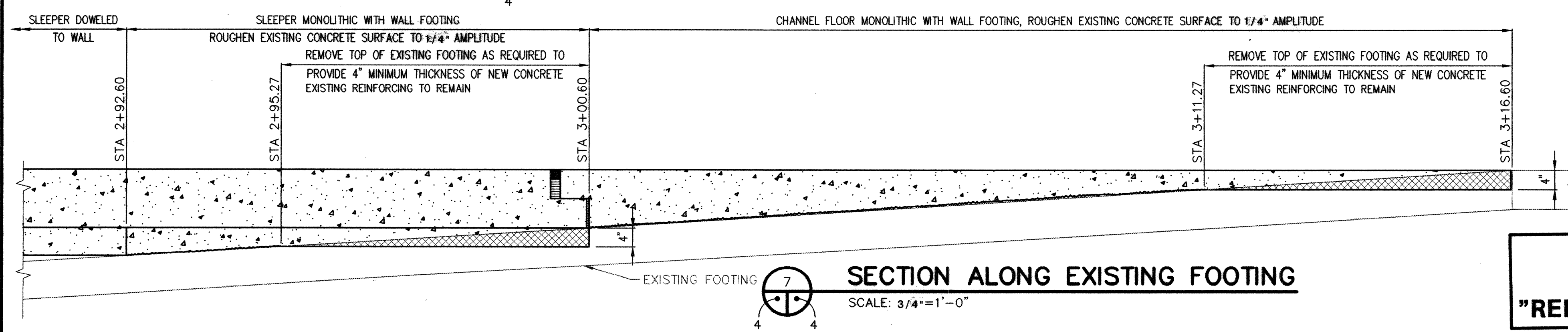
EXISTING  
CONSTRUCTION  
JOINT

**ELEVATION**  
SCALE: 3/4" = 1'-0"



0' 6" 1' 2' 4'

$\frac{3}{4}" = 1' - 0"$

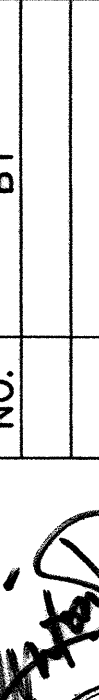


### SECTION ALONG EXISTING FOOTING

SCALE:  $3/4"=1'-0"$

**THIS SHEET SUPERSEDED BY  
SIMILAR SHEET MARKED  
"REDRAWN FOR RECORD PURPOSES"**

2 APPLY NEAT CEMENT GROUT (PORTLAND CEMENT AND WATER) TO DRY ROUGHENED SURFACE IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. PLACE CONCRETE ON WET GROUT. IF GROUT DRIES, REPEAT PROCEDURE.

| ENGINEER'S SEAL   |  | SURVEY INFORMATION |    | BENCH MARKS   |  | AS BUILT INFORMATION  |      |
|---|--|--------------------|----|---|--|-----------------------|------|
|   |  | FIELD NOTES        |    |   |  |                       |      |
|   |  | NO.                | BY |   |  |                       |      |
|   |  |                    |    |   |  | CONTRACTOR            |      |
|   |  |                    |    |   |  | WORK DONE BY          | DATE |
|   |  |                    |    |   |  | INSPECTOR'S           | DATE |
|   |  |                    |    |   |  | ACCEPTANCE BY         |      |
|   |  |                    |    |   |  | VERIFICATION BY       | DATE |
|   |  |                    |    |   |  | DRAWINGS CORRECTED BY | DATE |
| <b>REVISIONS</b><br><b>LEEDSHILL-HERKENHOFF, INC.</b><br>DESIGNED BY R MATUNIS<br>DATE JAN 1987<br>DRAWN BY C ROMERO<br>DATE JAN 1987 |  |                    |    | <b>MICRO-FILM INFORMATION</b><br>RECORDED BY<br>NO. |  |                       |      |
|   |  |                    |    |   |  |                       |      |

[illegible]

MENT  
GROUP

MENTS  
NK BOULEVARD  
S

|               |               |
|---------------|---------------|
| Mo / Day / Yr | Mo / Day / Yr |
|---------------|---------------|

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| мо./год/п. | мо./год/п. |
|            |            |
|            |            |

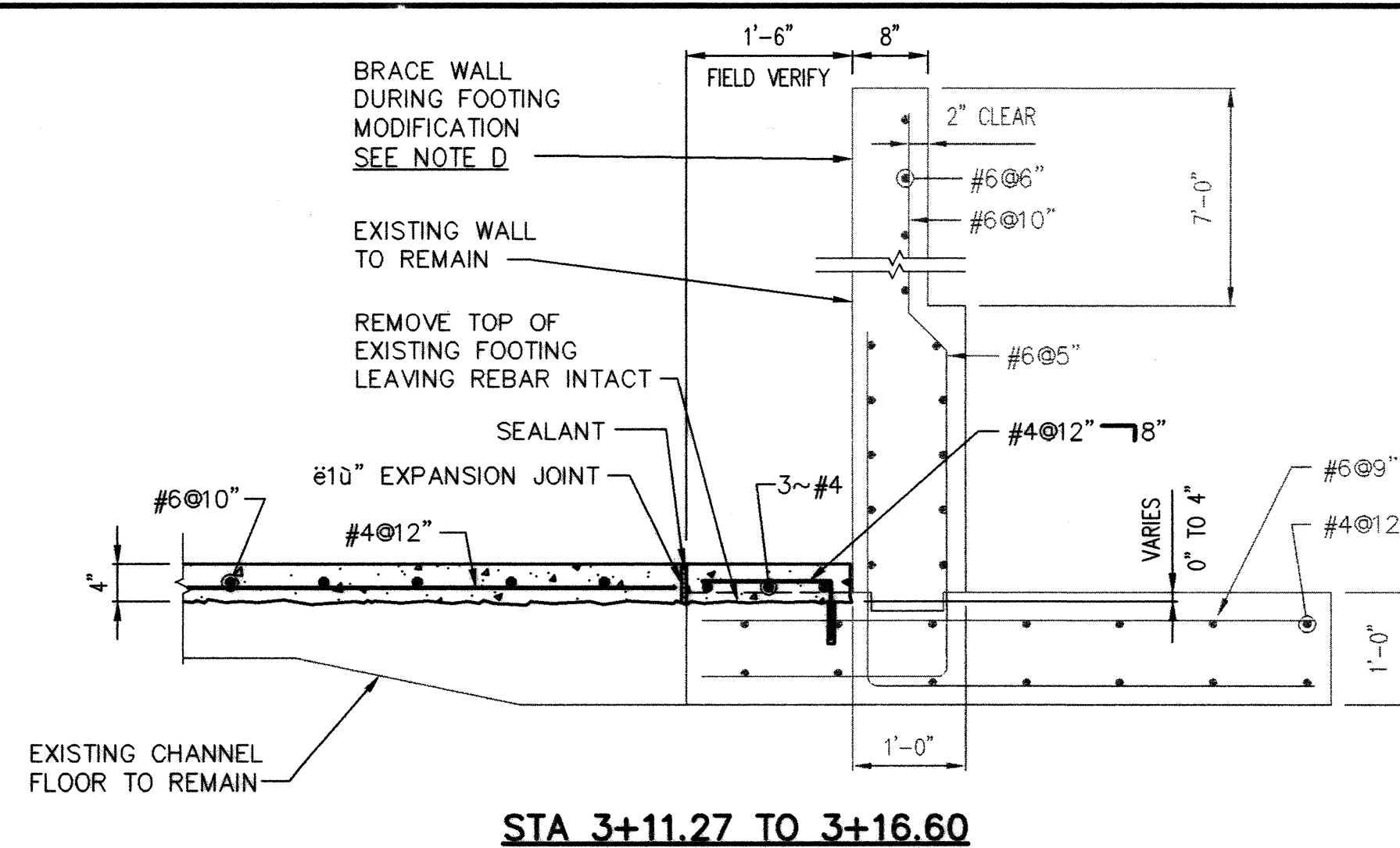
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|    |       |    |
| p. | Sheet | Of |

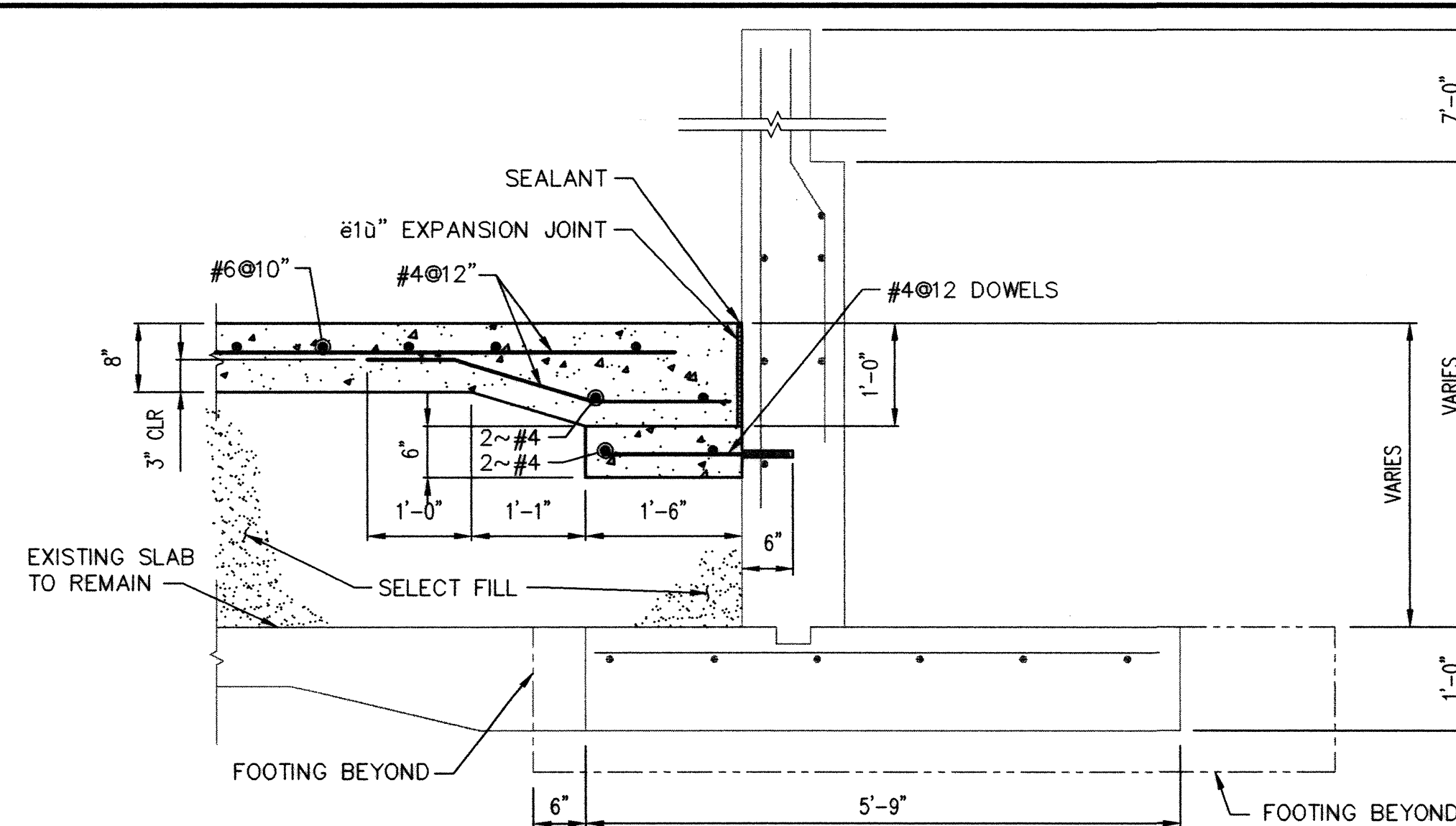
**- 4 5**

16/94036 41/BEARDETS/3-17-97/E





**NOTE:** EXISTING WALL, FOOTING AND REINFORCING  
PER AS-BUILT DRAWINGS.

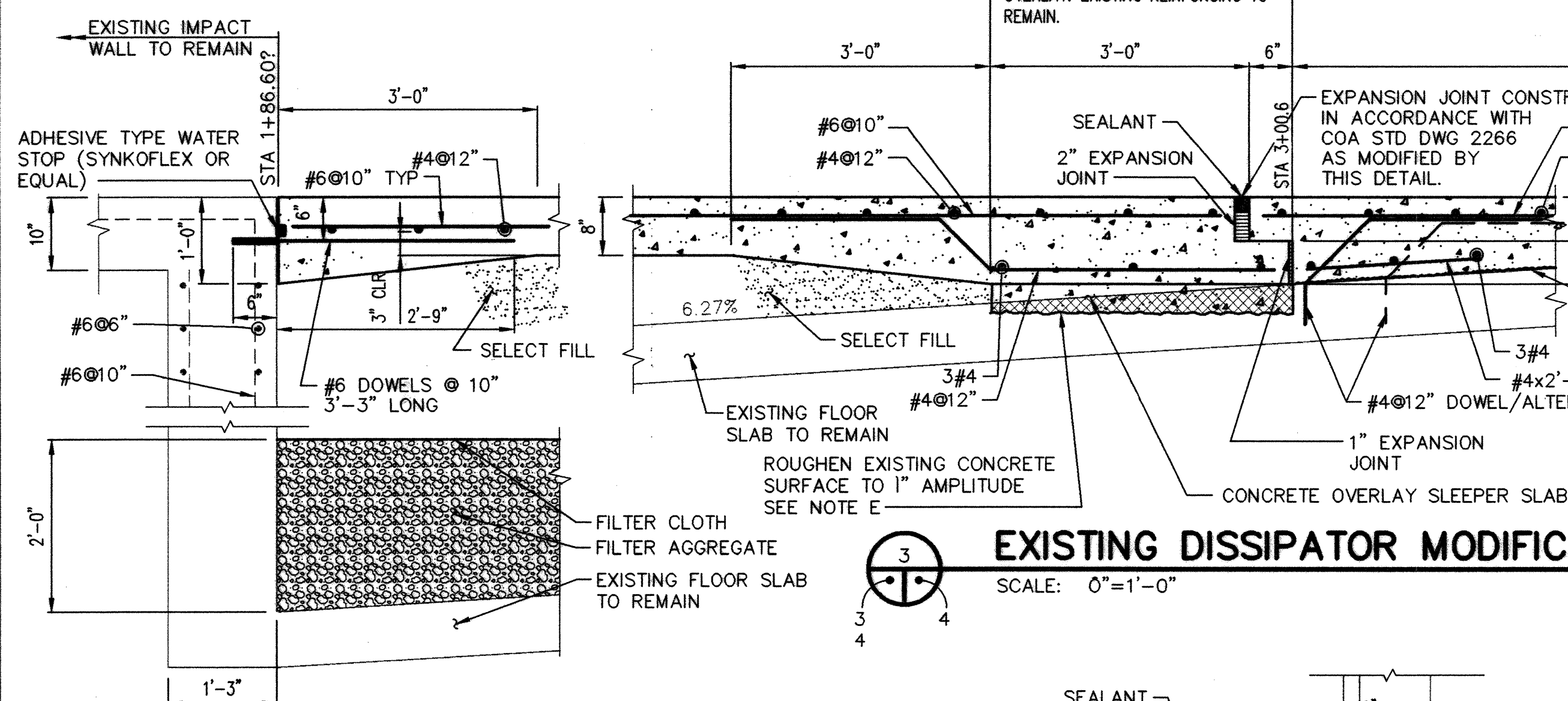


## EXPANSION JOINT TIE TO EXISTING FOOTING

SCALE:  $0'' = 1' - 0''$

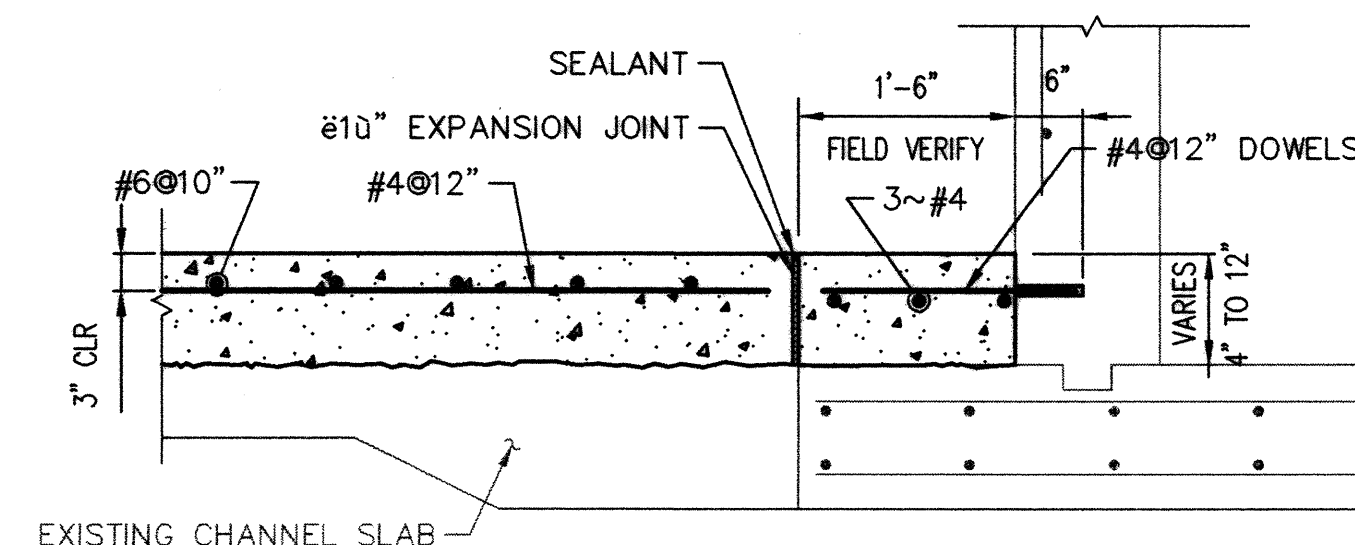
## EXPANSION JOINT TIE TO EXISTING CONCRETE WALL

SCALE:  $0'' = 1' - 0''$



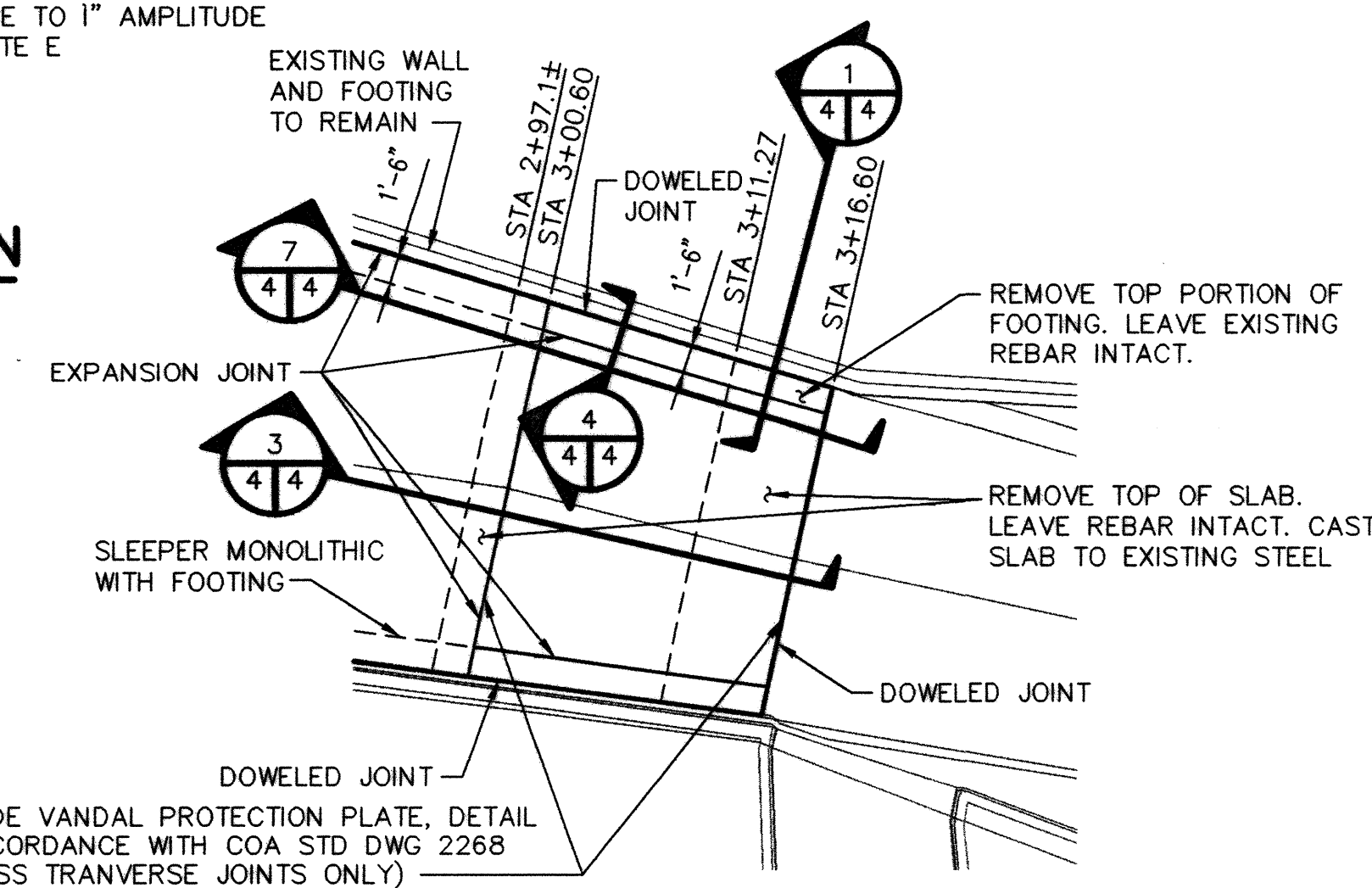
## EXISTING DISSIPATOR MODIFICATION SECTION

SCALE:  $\bar{O}'' = 1' - 0''$



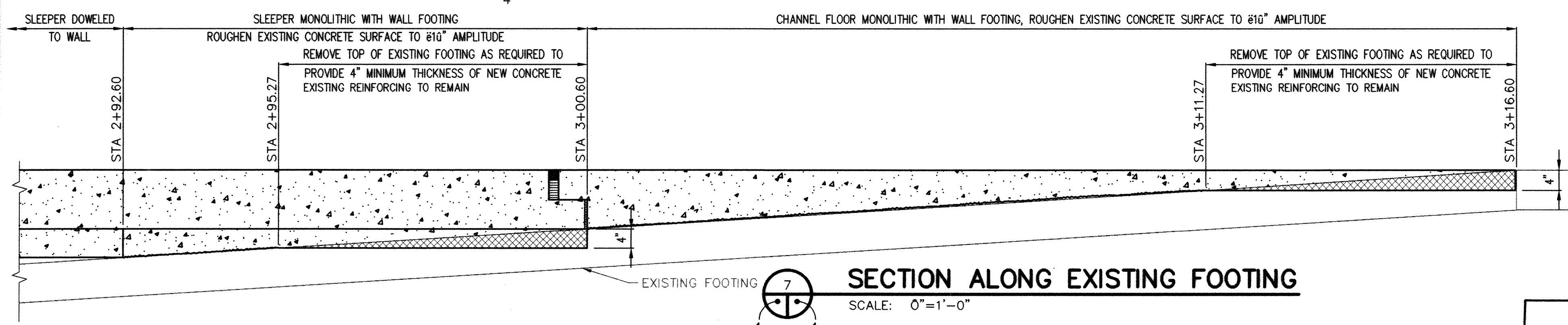
## EXPANSION JOINT TIE TO EXISTING WALL

SCALE:  $0''=1'-0''$



### PARTIAL EXPANSION JOINT LAYOUT DETAIL

NOT TO SCALE



### SECTION ALONG EXISTING FOOTING

SCALE: 0"=1'-0'

REVISED DRAWING TO REFLECT  
CORRECT COMPUTER CHANGES  
BETWEEN ACAD R12 AND ACAD R14  
11/13/1998

RECORD DRAWING

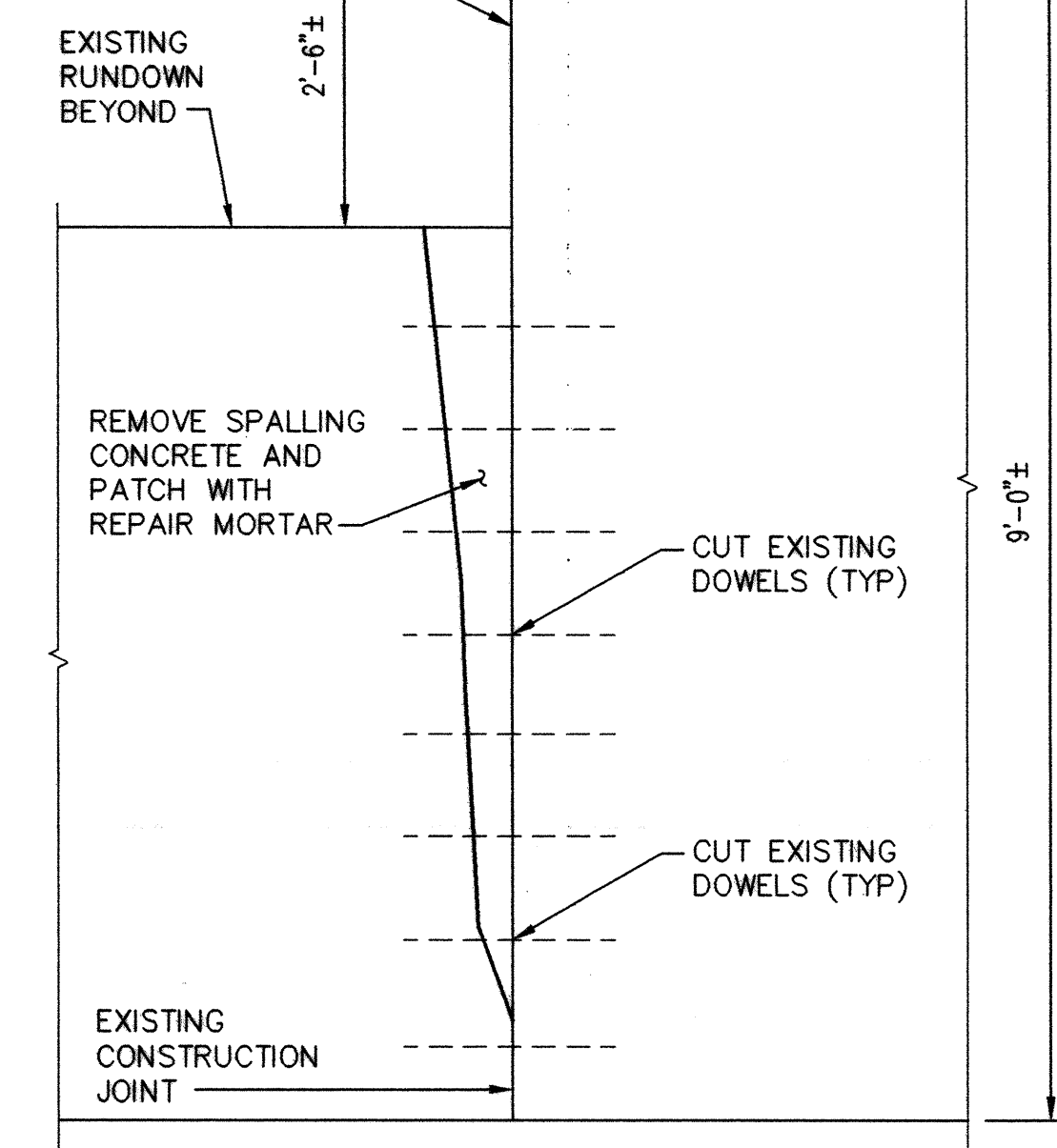
Date 3/99  
These drawings have been revised based on the construction records of the owner. While the information submitted by the Owner will be assumed to be reliable, the Engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record document as a result thereof.

REDRAWN FOR RECORD PURPOSES

## NOTES

- A FOR EXPANSION JOINT MATERIALS AND INSTALLATION INSTRUCTIONS, SEE COA DWG 2266, DETAIL 8
- B FOR DOWELS, CORE DRILL 1" HOLES INTO EXISTING STRUCTURE WITH CONTINUOUS WATER LUBRICATION AND COOLANT. DO NOT USE IMPACT DRILL. BOND REBAR INTO PLACE WITH SOLID 2 PART, QUICK SETTING EPOXY.
- C ADHESIVE WATERSTOP SHALL BE SYNKOFLEX OR APPROVED EQUAL.
- D PROVIDE SHORING WITH ADJUSTABLE JACKS ALONG WALL FROM STA 2+95 TO STA 3+00 AND STA 3+11 TO STA 3+16. DESIGN SHORING TO RESTRAIN CHANNEL WALL AND VERIFY EXISTING WALL CAN SPAN BETWEEN FOOTING AND SHORING. SUBMIT CALCULATIONS FOR APPROVAL PRIOR TO CONSTRUCTION.
- E CONCRETE OVERLAY (STA 2+92.60 TO STA 3+16.6) CONSTRUCTION SEQUENCE.
  - 1 THOROUGHLY CLEAN ROUGHENED SURFACE WITH HIGH PRESSURE WATER OR COMPRESSED AIR.
  - 2 APPLY NEAT CEMENT GROUT (PORTLAND CEMENT AND WATER) TO DRY ROUGHENED SURFACE IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. PLACE CONCRETE ON WET GROUT. IF GROUT DRIES, REPEAT PROCEDURE.

ON BACKSIDE OF  
WALL, CUT EXISTING  
DOWELS, REMOVE  
SPALLING CONCRETE  
AND PATCH WITH  
REPAIR MORTAR —



## ELEVATION

SCALE:  $0'' = 1' - 0''$

0    6"    1'    2'    4'

$\frac{3}{4}" = 1' - 0"$

**LEEDSHILL—HERKENHOFF, INC**  
500 Copper Avenue NW  
P.O. Box 1217  
Albuquerque, NM 87103  
(505)247-0294

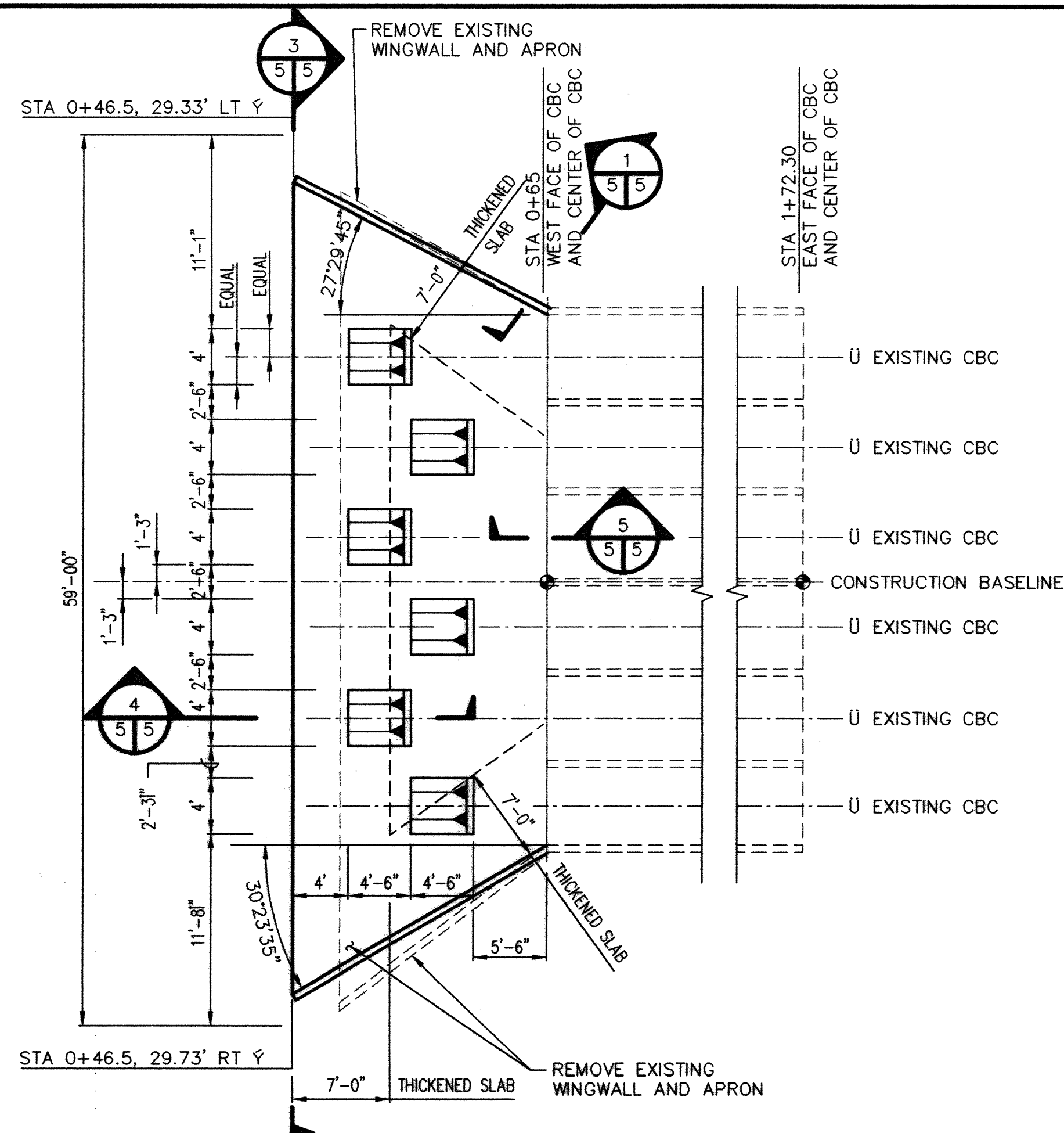
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: DIVERSE DRAINAGE IMPROVEMENTS  
BEAR CANYON ARROYO AT EUBANK BOULEVARD  
STRUCTURE DETAILS

|                                 |                        |                       |                |             |
|---------------------------------|------------------------|-----------------------|----------------|-------------|
| Design Review Committee         | City Engineer Approval | Last Design Update    | Mo./Day/Yr.    | Mo./Day/Yr. |
|                                 |                        |                       |                |             |
|                                 |                        |                       |                |             |
|                                 |                        |                       |                |             |
|                                 |                        |                       |                |             |
| City Project No. <b>4880 91</b> |                        | Zone Map No. <b>-</b> | Sheet <b>4</b> | Of <b>5</b> |

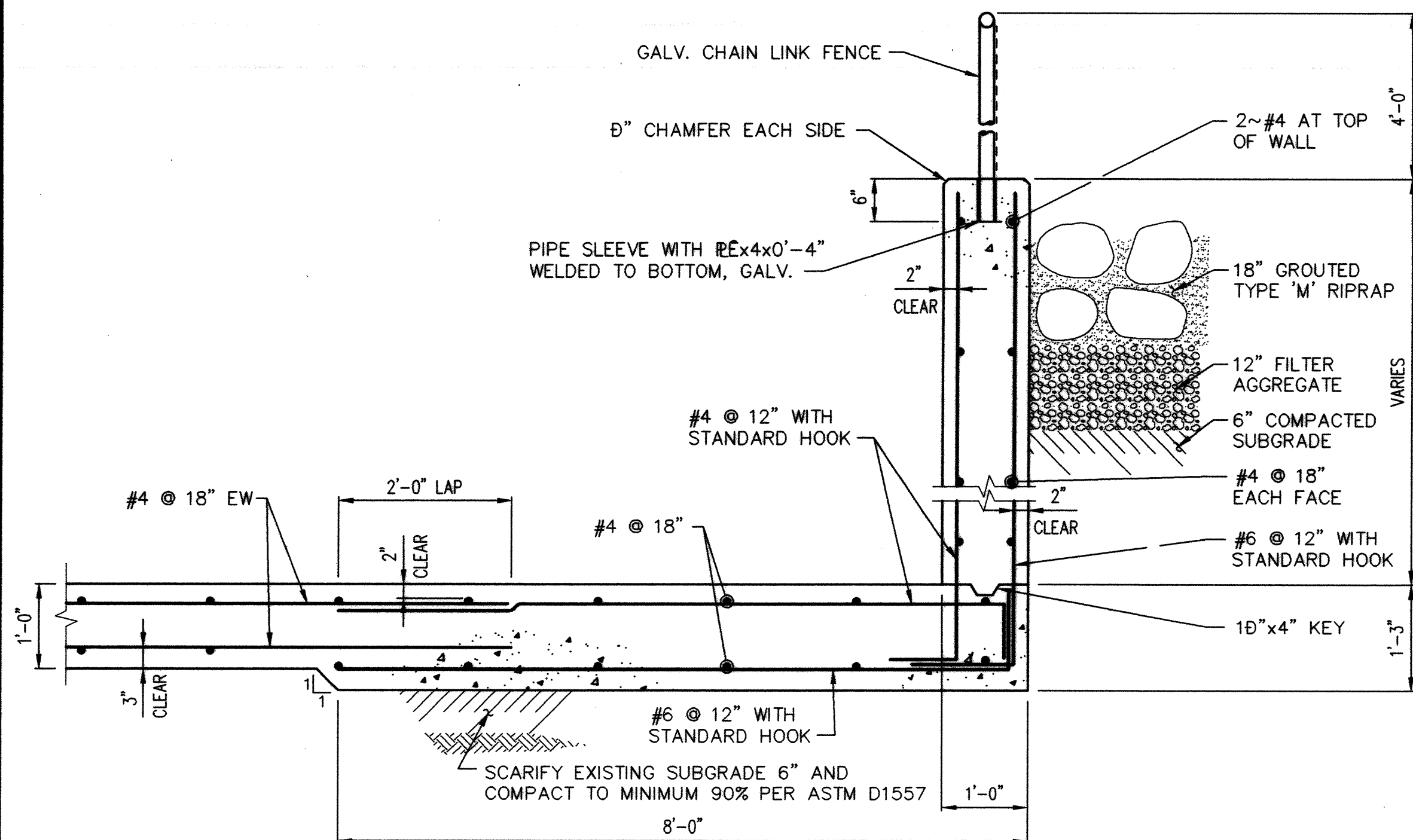
[illegible]



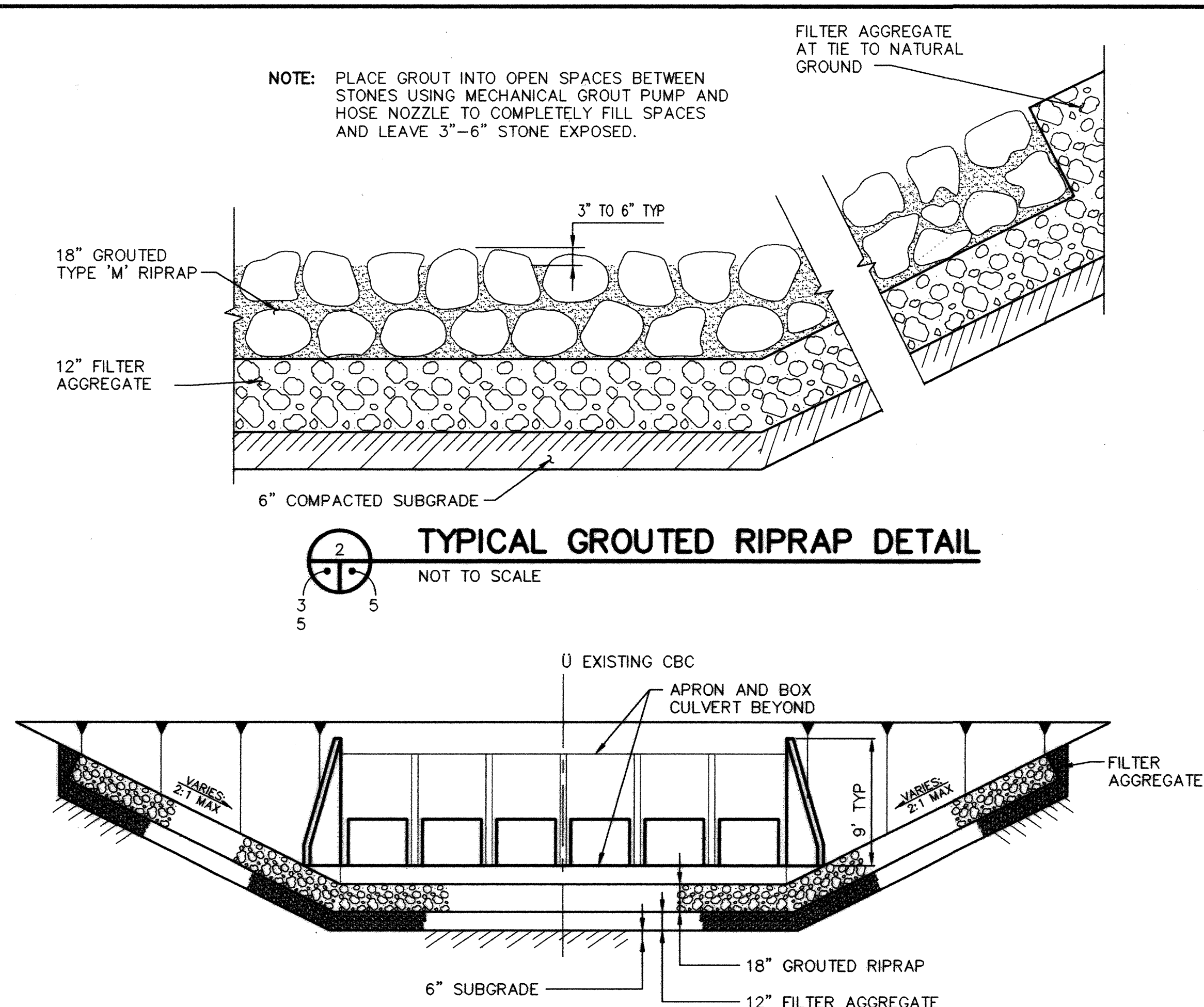


**NOTES:**  
 A CENTER BAFFLES ON CENTERLINE OF EXISTING CONCRETE BOX CULVERT  
 B DOWEL WINGWALLS INTO EXISTING CBC. BEND DOWELS AS REQUIRED.  
 #4x1'-7" @ 12". FOR DOWEL NOTE SEE SECTION 5, THIS SHEET.

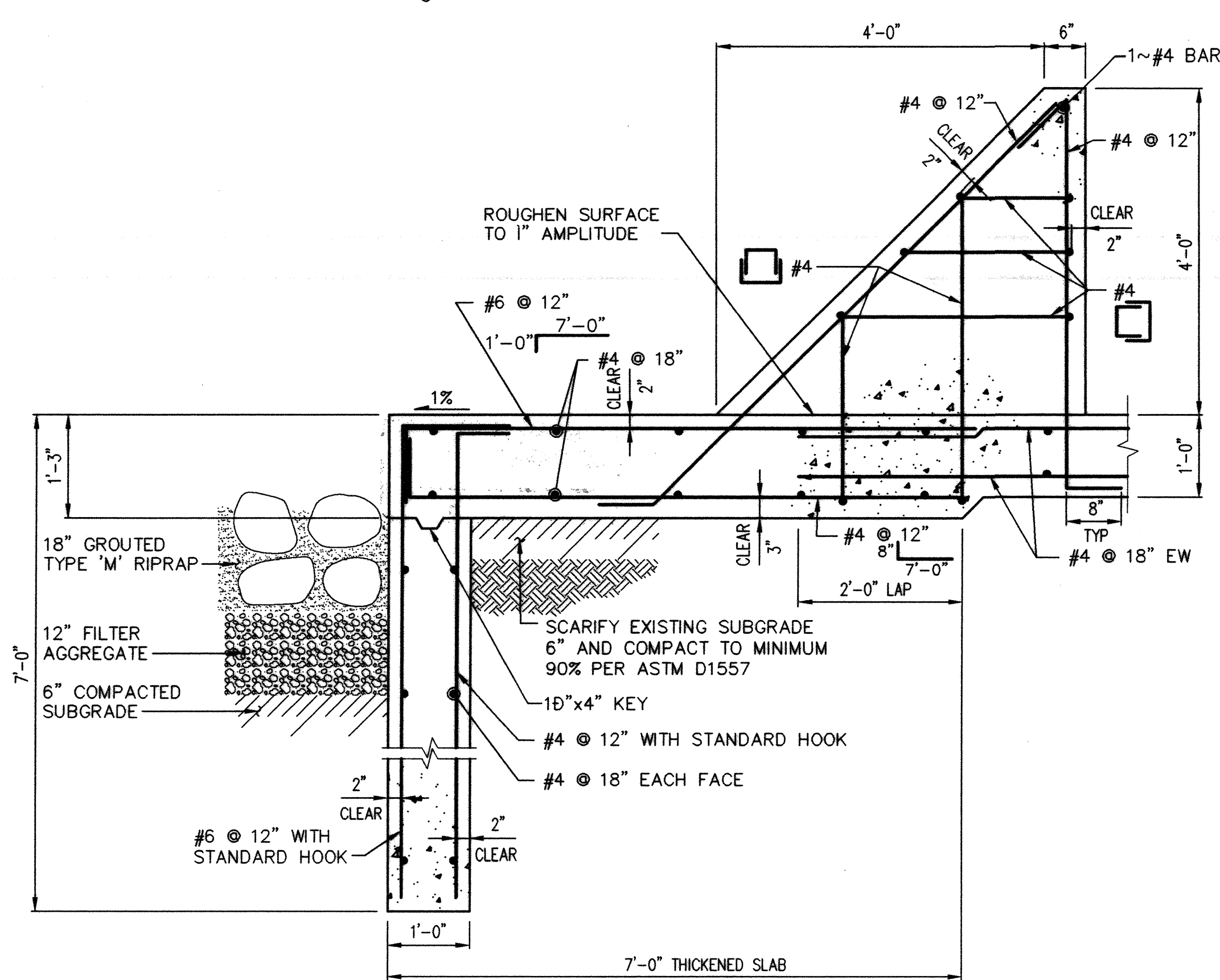
**BAFFLE LAYOUT**  
 SCALE: 1"=1'-0"



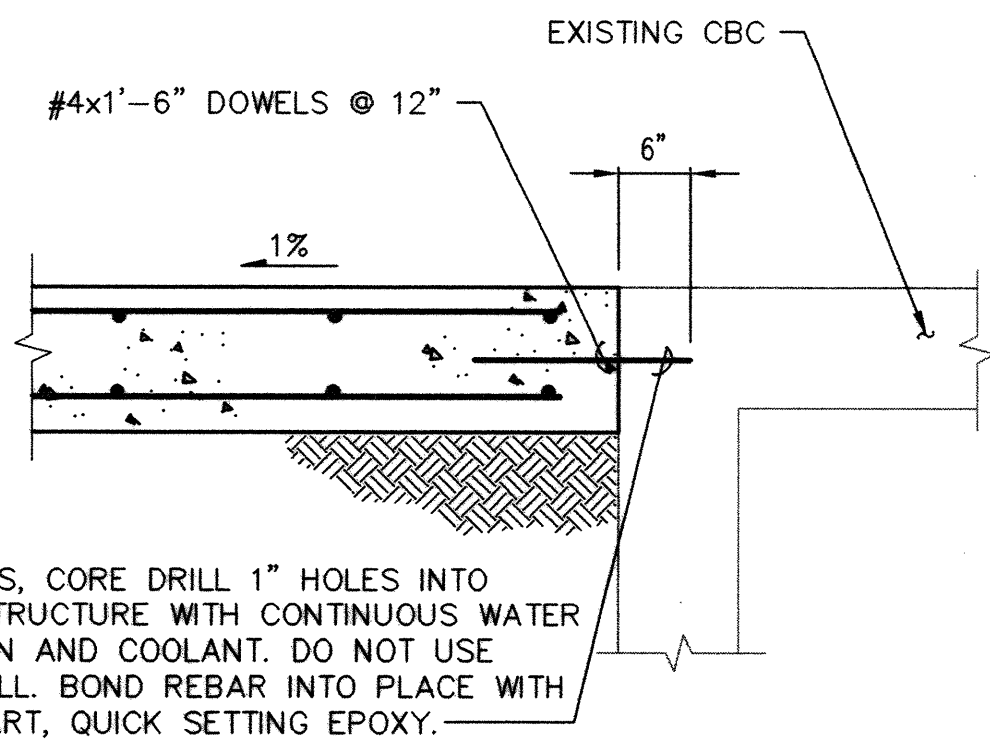
**FLOOR AND WINGWALL SECTION**  
 SCALE: 0"=1'-0"



**SECTION**  
 NOT TO SCALE



**CUT OFF WALL AND BAFFLE SECTION**  
 SCALE: 0"=1'-0"



**SECTION**  
 NOT TO SCALE

**CORRECT COMPUTER CHANGES**  
 PUBLIC WORKS DEPARTMENT  
 BETWEEN ACAD R12 AND ACAD R14  
 11/13/1998

**RECORD DRAWING**  
 Date 3/99  
 These drawings have been revised based on the construction records of the owner. While the information submitted by the Owner will be assumed to be reliable, the Engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record document as a result thereof.

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|  |                        |             |             |
|--|------------------------|-------------|-------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP                        |                        |             |             |
| TITLE:<br>DIVERSE DRAINAGE IMPROVEMENTS<br>BEAR CANYON ARROYO AT EUBANK BOULEVARD<br>STRUCTURE DETAILS |                        |             |             |
| Design Review Committee  | City Engineer Approval | Mo./Day/Yr. | Mo./Day/Yr. |
|  |                        |             |             |
| City Project No.   | Zone Map No.           | Sheet       | Of          |
|  |                        | 5           | 5           |

**REDRAWN FOR RECORD PURPOSES**

| AS BUILT INFORMATION |                           |      |      | BENCH MARKS |      |     |      | SURVEY INFORMATION |      |     |      | ENGINEER'S SEAL |      |     |      |
|----------------------|---------------------------|------|------|-------------|------|-----|------|--------------------|------|-----|------|-----------------|------|-----|------|
| CONTRACTOR           | CONDOR CONSTRUCTION, INC. | DATE | 1998 | NO.         | DATE | NO. | DATE | NO.                | DATE | NO. | DATE | NO.             | DATE | NO. | DATE |
| WORK                 | ALBUQUERQUE               | DATE | 1998 | NO.         | DATE | NO. | DATE | NO.                | DATE | NO. | DATE | NO.             | DATE | NO. | DATE |
| STATIONED BY         | SURVEYING                 | DATE | 1998 | NO.         | DATE | NO. | DATE | NO.                | DATE | NO. | DATE | NO.             | DATE | NO. | DATE |
| DESIGNED BY          | CONDOR CONSTRUCTION, INC. | DATE | 1998 | NO.         | DATE | NO. | DATE | NO.                | DATE | NO. | DATE | NO.             | DATE | NO. | DATE |
| CHECKED BY           | CONDOR CONSTRUCTION, INC. | DATE | 1998 | NO.         | DATE | NO. | DATE | NO.                | DATE | NO. | DATE | NO.             | DATE | NO. | DATE |
| REVISIONS            |                           |      |      | NO.         | DATE | NO. | DATE | NO.                | DATE | NO. | DATE | NO.             | DATE | NO. | DATE |
| NO.                  |                           |      |      | NO.         | DATE | NO. | DATE | NO.                | DATE | NO. | DATE | NO.             | DATE | NO. | DATE |
| DATE                 |                           |      |      | NO.         | DATE | NO. | DATE | NO.                | DATE | NO. | DATE | NO.             | DATE | NO. | DATE |
| RECORDED BY          | CONDOR CONSTRUCTION, INC. | DATE | 1998 | NO.         | DATE | NO. | DATE | NO.                | DATE | NO. | DATE | NO.             | DATE | NO. | DATE |
| NO.                  |                           |      |      | NO.         | DATE | NO. | DATE | NO.                | DATE | NO. | DATE | NO.             | DATE | NO. | DATE |
| DATE                 |                           |      |      | NO.         | DATE | NO. | DATE | NO.                | DATE | NO. | DATE | NO.             | DATE | NO. | DATE |



