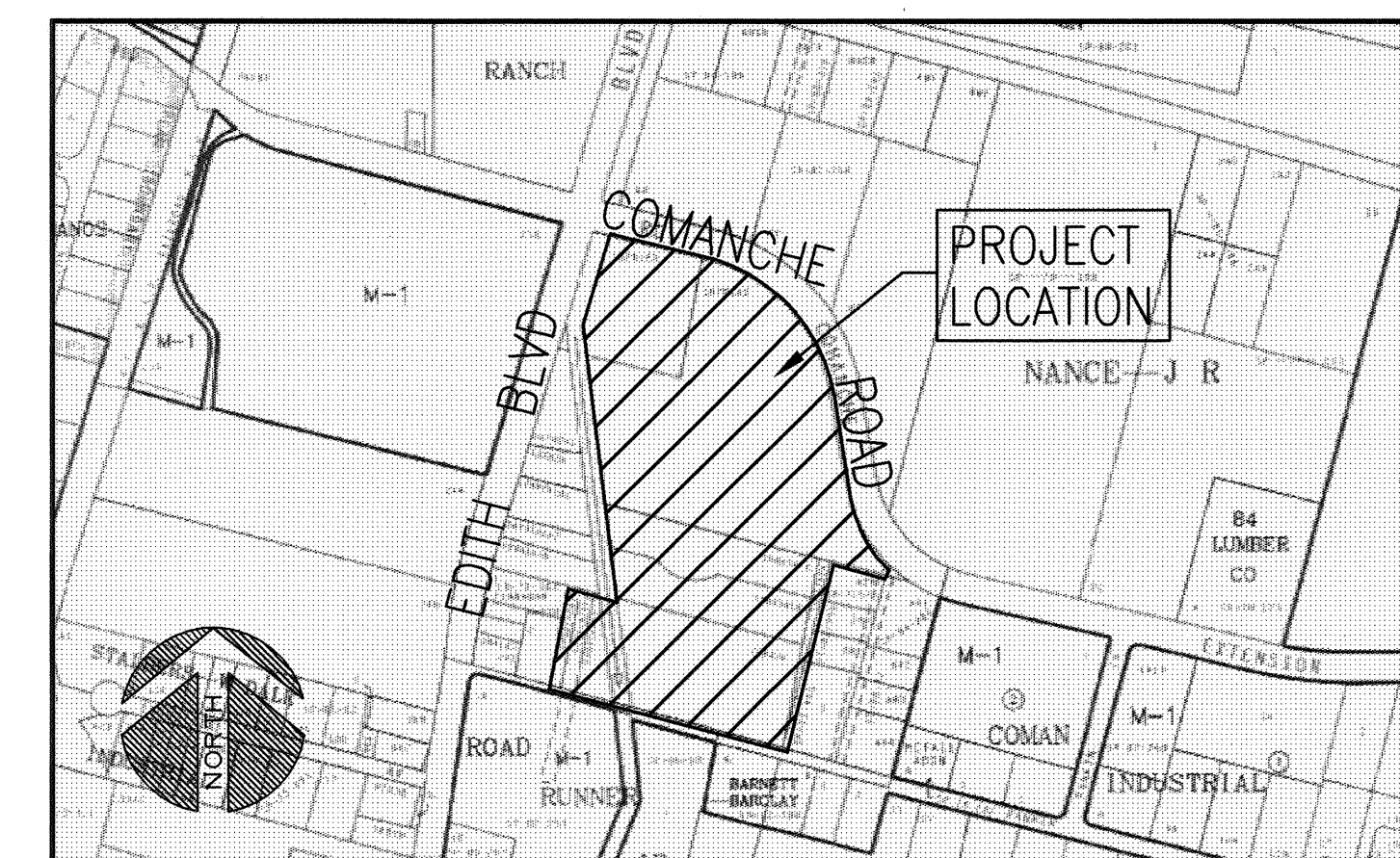


# CONSTRUCTION PLANS FOR STORM WATER CONTROL IMPROVEMENTS SOLID WASTE MANAGEMENT FACILITY ALBUQUERQUE, NEW MEXICO



VIVINITY MAP (G-15)

## GENERAL NOTES

### NOTICE TO CONTRACTORS

- CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
- PRIOR TO ANY 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 THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.
- ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC. WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION 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 (924-3400) PRIOR TO OCCUPYING AN INTERSECTION.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET
- WATER SHUTOFF REQUIREMENTS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF. AT LEAST SEVEN (7) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION, 857-8200, TO INITIATE IMPLEMENTATION OF THE NON-PRESSURIZED CONNECTION PLAN.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

APPLIED ENGINEERING AND  
SURVEYING, INC.  
ENGINEERS AND PLANNERS  
1600 East Dwyer NE  
Albuquerque, New Mexico 87112  
Office: (505) 237-1400 Fax: (505) 237-1400

|                             |        |                  |                    |                 |                           |                                                  |      |
|-----------------------------|--------|------------------|--------------------|-----------------|---------------------------|--------------------------------------------------|------|
| REV.                        | SHEETS | CITY ENGINEER    | DATE               | USER DEPARTMENT | DATE                      | USER DEPARTMENT                                  | DATE |
| ENGINEERS STAMP & SIGNATURE |        | APPROVALS        |                    | ENGINEER        | DATE                      | *****                                            |      |
|                             |        | DRC Chairman     | <i>[Signature]</i> | 11-17-03        | APPROVED FOR CONSTRUCTION | <i>[Signature]</i> 12/1/03<br>City Engineer Date |      |
|                             |        | Transportation   | <i>[Signature]</i> | 8-8-03          |                           |                                                  |      |
|                             |        | Water/Wastewater | <i>[Signature]</i> | 8-15-03         |                           |                                                  |      |
|                             |        | Hydrology        | <i>[Signature]</i> | 8-13-03         |                           |                                                  |      |
|                             |        | Parks            | <i>[Signature]</i> | 11-17-03        |                           |                                                  |      |
|                             |        | Const. Coord.    | <i>[Signature]</i> | 11-17-03        |                           |                                                  |      |
| CITY PROJECT No.            |        | 700691           |                    | Sheet           |                           | Of                                               |      |
|                             |        |                  |                    | 1               |                           | 17                                               |      |

## INDEX OF DRAWINGS

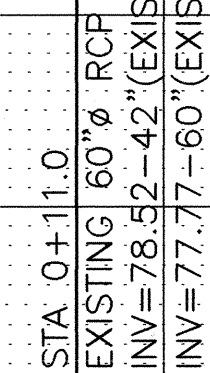
| SHEET NO. | SHEET TITLE                                                                             |
|-----------|-----------------------------------------------------------------------------------------|
| 1         | TITLE SHEET                                                                             |
| 2         | STORM WATER/POLLUTION PREVENTION MAP, EXHIBIT 'D'                                       |
| 3         | MAIN DETENTION POND AND OUTLET STRUCTURE                                                |
| 4         | STORM DRAIN IMPROVEMENTS, STA. 5+00 TO STA. 10+00                                       |
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| 18        | C-1 RETAINING WALL SITE PLAN                                                            |
| 19        | C-2 RETAINING WALL GRADING PLAN                                                         |
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CAUTION:  
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

### 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 ENGINEER.
- ☐ SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED
- ☐ 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 REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGE AFTER APPROVAL BY THE CITY ENGINEER OR WORK COMPLETED BY THE CONTRACTOR.





INV=84.65  
CONTRACTOR TO FIELD VERIFY  
PRIOR TO START OF CONSTRUCTION

|                                 |  |  |
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| STA 1+90.0                      |  |  |
| INSTALL 6"Ø STORM DRAIN MANHOLE |  |  |

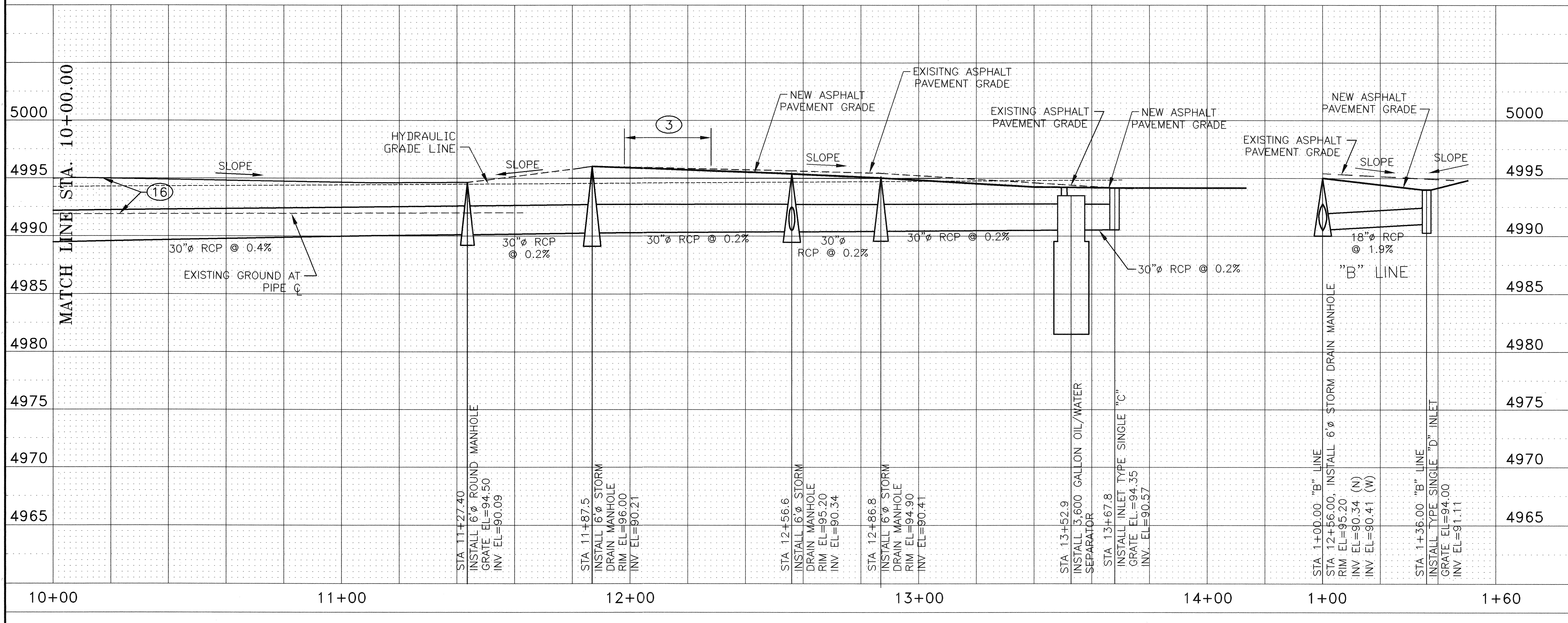
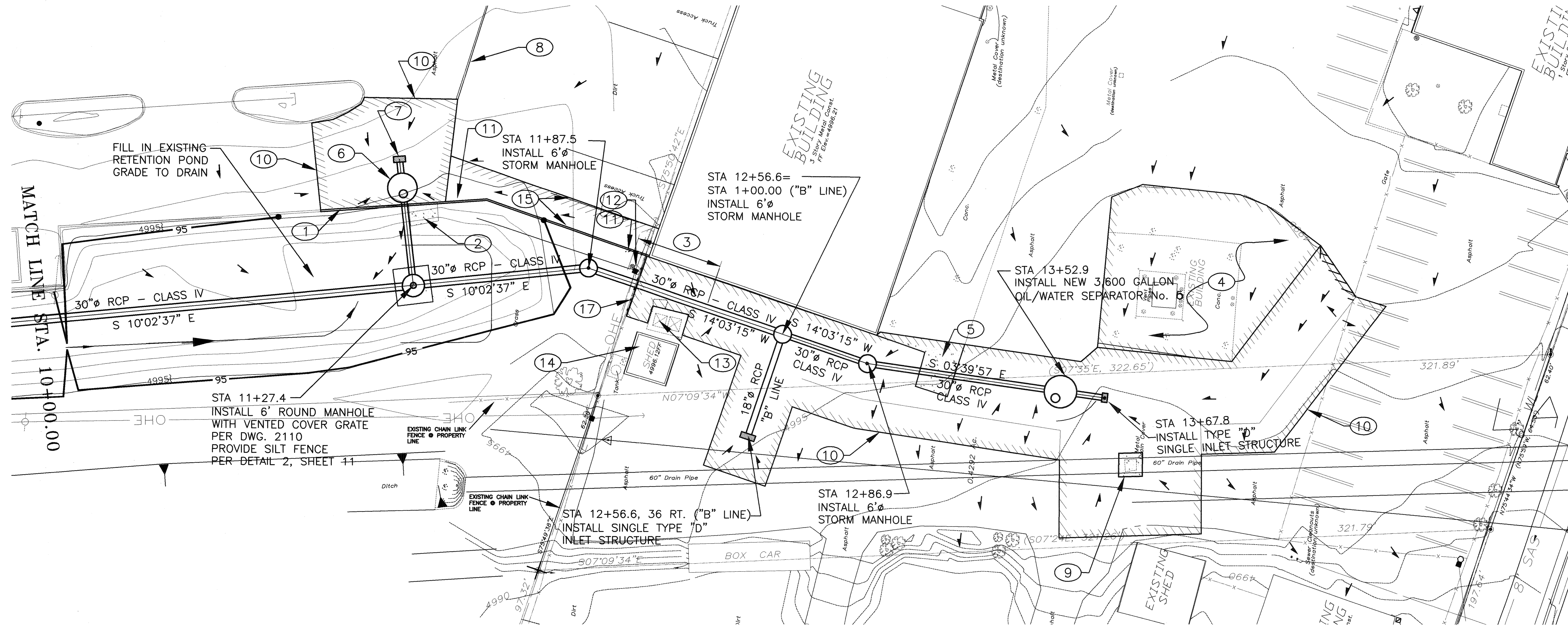
INSALL 48 HOODED OUTLET STRUCT  
INV=86.00

|                               |  |
|-------------------------------|--|
| STA 4+03.4                    |  |
| INSTALL 42" Ø WITH            |  |
| REINFORCED HEADWALL STRUCTURE |  |
| INV=87.20                     |  |

- APPLIED ENGINEERING AND  
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ENGINEERS AND PLANNERS  
1608 Blair Drive NE Albuquerque, New Mexico 87112  
Office: (505) 2237-1456 Facsimile: (505) 237-1456

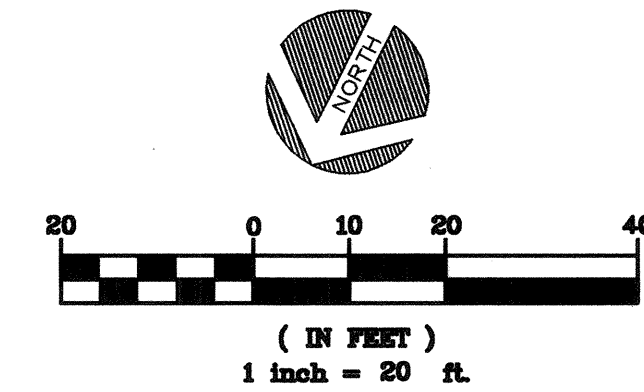
| QUE<br>TMENT<br>IT GROUP                                                                                                                                                                                                               |             |             |  |  |  |  |  |  |  |  |  |  |                                                                                   |
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## CONSTRUCTION NOTES

- 1 REMOVE AND REPLACE EXISTING CURB.
- 2 REMOVE EXISTING CONCRETE RUNDOWN.
- 3 THIS AREA CONTAINS UNDERGROUND ELECTRICAL CONDUITS. THIS AREA SHALL BE COORDINATED WITH THE OWNER TO DE-ENERGIZE ELECTRICAL POWER PRIOR TO WORKING IN THIS AREA. ALL UTILITIES SHALL BE POTHOLED PRIOR TO EXCAVATION WITH BACKHOE EQUIPMENT.
- 4 WHEN UNDERGROUND ABANDONED FUEL TANKS ARE REMOVED REPLACE ASPHALT AND GRADE TO DRAIN INTO NEW OIL/WATER SEPARATOR.
- 5 SAWCUT EXISTING CONCRETE AND REPAVE WITH ASPHALT.
- 6 NEW 2,400 GALLON OIL/WATER SEPARATOR No. 4.
- 7 NEW TYPE SINGLE "D" DRAIN INLET IN SUMP CONDITION.
- 8 EDGE OF EXISTING ASPHALT.
- 9 CONTRACTOR TO REPLACE EXISTING PERFORATED STEEL PLATE WITH NEW SOLID STEEL PLATE PER DETAIL ON SHEET 11.
- 10 APPROXIMATE LIMITS OF ASPHALT REMOVAL AND REPLACEMENT.
- 11 CONSTRUCT NEW CURB.
- 12 EXISTING POWER POLE & GUY WIRE, CONTRACTOR TO DE-ENERGIZE ELECTRICITY AND SUPPORT POLE PRIOR TO CONSTRUCTION.
- 13 EXISTING TRANSFORMERS, CONTRACTOR TO DE-ENERGIZE ELECTRICITY AND PROVIDE SHORING TO PROTECT TRANSFORMERS PRIOR TO CONSTRUCTION.
- 14 EXISTING SHED WITH ELECTRICAL CIRCUIT BREAKERS AND CONTROLLERS.
- 15 PROVIDE 10' WIDE ASPHALT PAVING WITH CURB AND GRADE TO DRAIN TOWARDS INLET AT OIL/WATER SEPARATOR.
- 16 REMOVE ALL BLACK SEDIMENT EXPOSED TO OILS UNTIL VIRGIN GRADE IS DETERMINED BY OWNER. HAUL ALL SPOILS TO APPROVED LANDFILL AS DETERMINED BY OWNER. BACKFILL EXISTING POND WITH CLEAN SUITABLE FILL MATERIAL.
- 17 REMOVE AND REINSTALL 20LF CHAIN LINK FENCE.



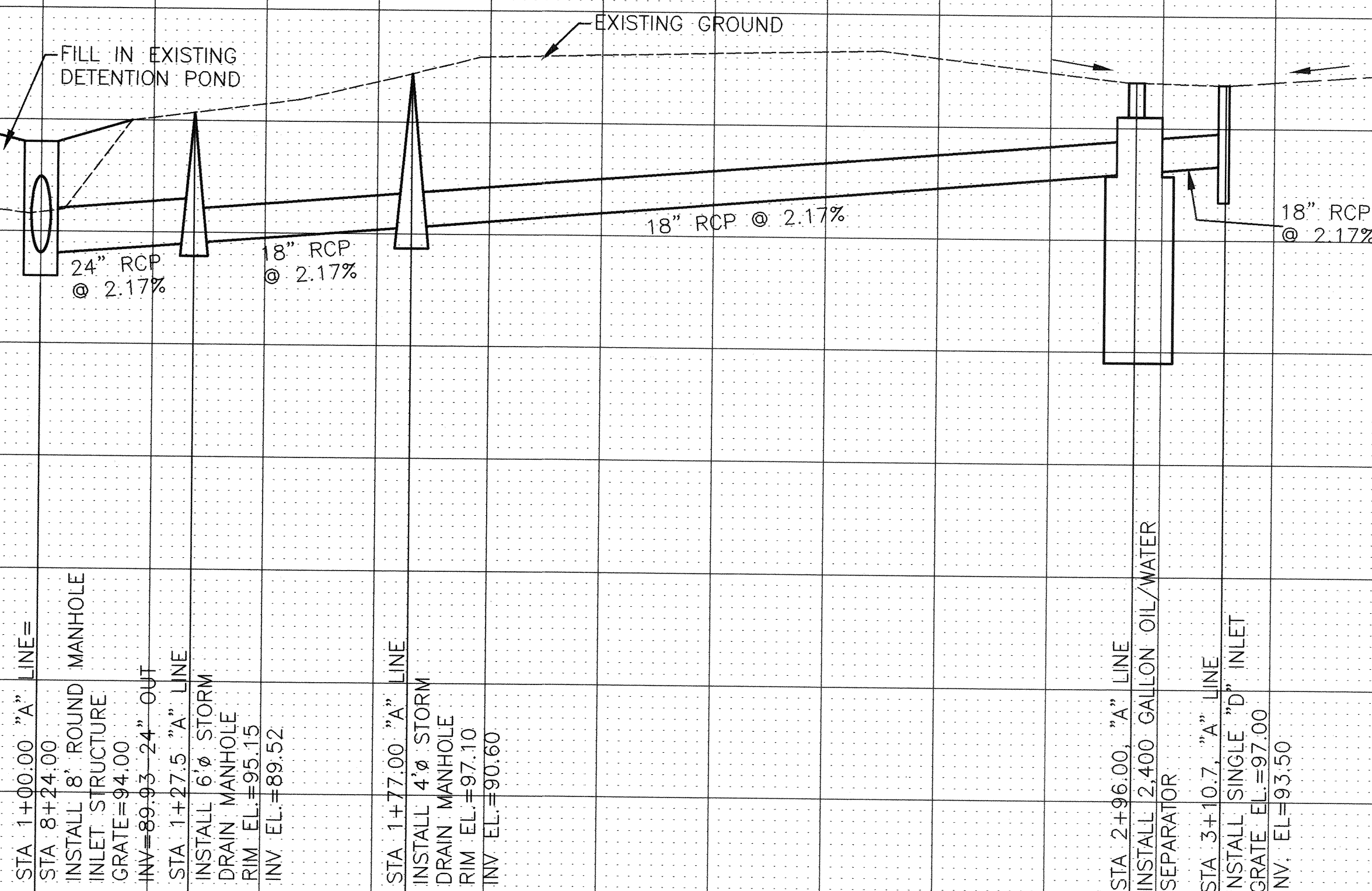
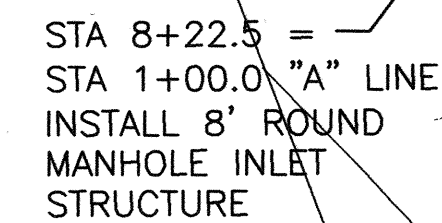
APPLIED ENGINEERING AND SURVEYING, INC.  
ENGINEERS AND PLANNERS  
405 West 10th Street, Suite 100  
Albuquerque, NM 87102  
Office: (505) 237-1400 Fax: (505) 237-1401

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: STORM DRAIN IMPROVEMENTS  
STA. 10+00 TO STA. 14+00

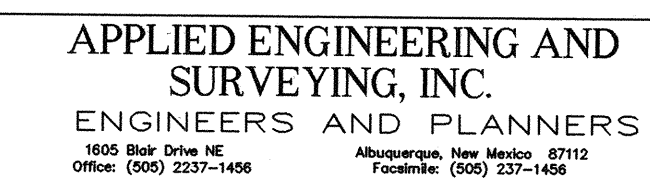
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| NOV 17 2003             | DEC - 1 2003           |             |             |
| City Project No.        | Zone Map No.           | Sheet       | Of          |
| 700691                  | G-15                   | 5           | 17          |

| ENGINEER'S SEAL |  | SURVEY INFORMATION |  | BENCH MARKS |  | AS BUILT INFORMATION |  |
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- ① REMOVE EXISTING INLET STRUCTURE AND PROVIDE CONCRETE PLUG AND ABANDON EXISTING 12" Ø STORM DRAIN.
- ② REMOVE EXISTING CONCRETE RUNDOWN STRUCTURE.
- ③ REMOVE AND REPLACE EXISTING CURB.
- ④ NEW 4,800 GALLON OIL/WATER SEPARATOR No. 3.
- ⑤ NEW TYPE SINGLE "D" DRAIN INLET IN SUMP CONDITION.
- ⑥ NOT USED.
- ⑦ CONSTRUCT +/- 10LF CURB AT ENTRANCE TO EXISTING RUNDOWN TO BLOCK STORM WATER AND ALLOW FLOW TO DRAIN INTO NEW/OIL WATER SEPARATOR.
- ⑧ APPROXIMATE LIMITS OF ASPHALT REMOVAL AND REPLACEMENT.

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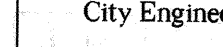
**APPLIED ENGINEERING AND  
SURVEYING, INC.**  
ENGINEERS AND PLANNERS

1605 Blair Drive NE  
Office: (505) 2237-1456

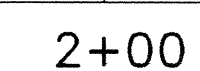
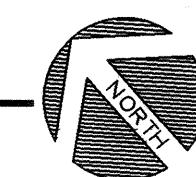
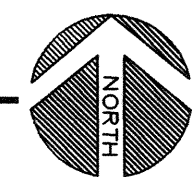
Albuquerque, New Mexico 87112  
Facsimile: (505) 237-1456

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

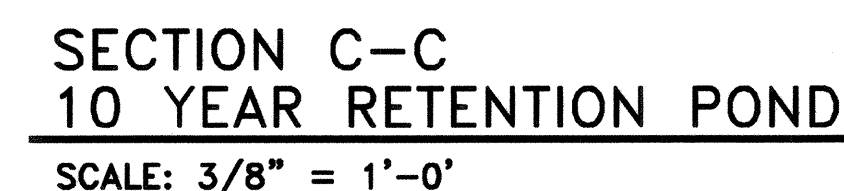
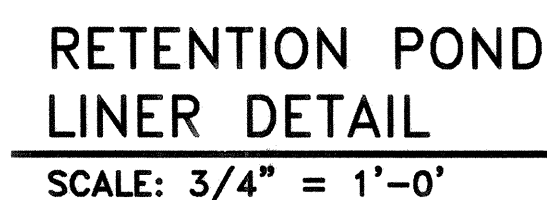
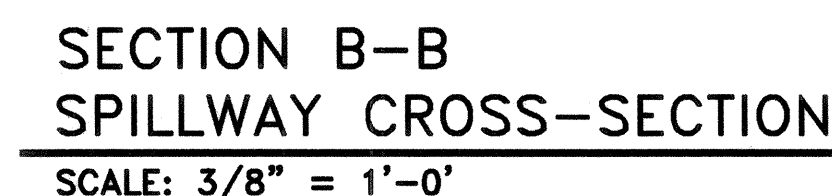
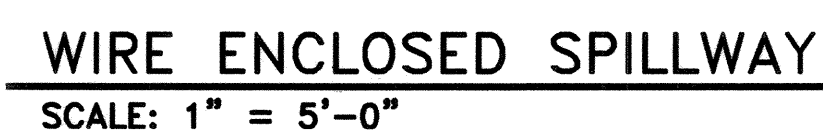
TITLE: STORM DRAIN IMPROVEMENTS  
STA 1+00 TO STA 3+11, LINE "A"

| Design Review Committee                                                               | City Engineer Approval                                                                | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr. |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------|-------------|-------------|
|  |  |                    |             |             |

|                  |        |              |      |       |    |   |    |
|------------------|--------|--------------|------|-------|----|---|----|
| City Project No. | 700691 | Zone Map No. | G-15 | Sheet | Of | 6 | 17 |
|------------------|--------|--------------|------|-------|----|---|----|

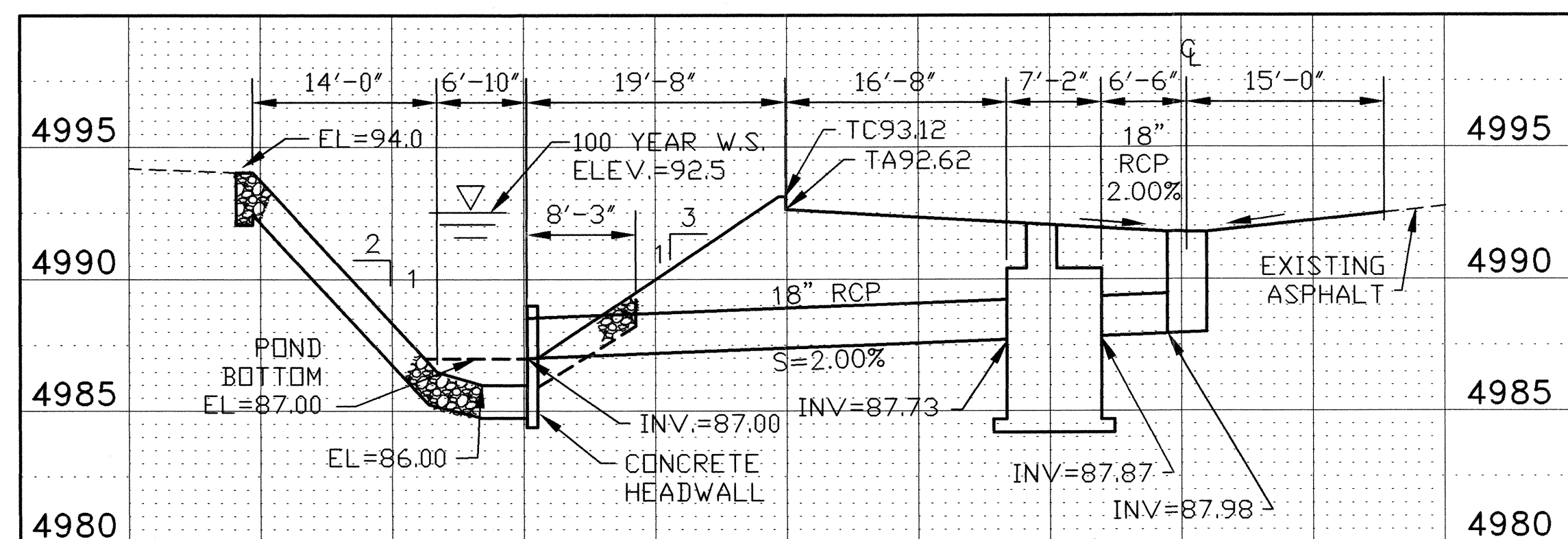
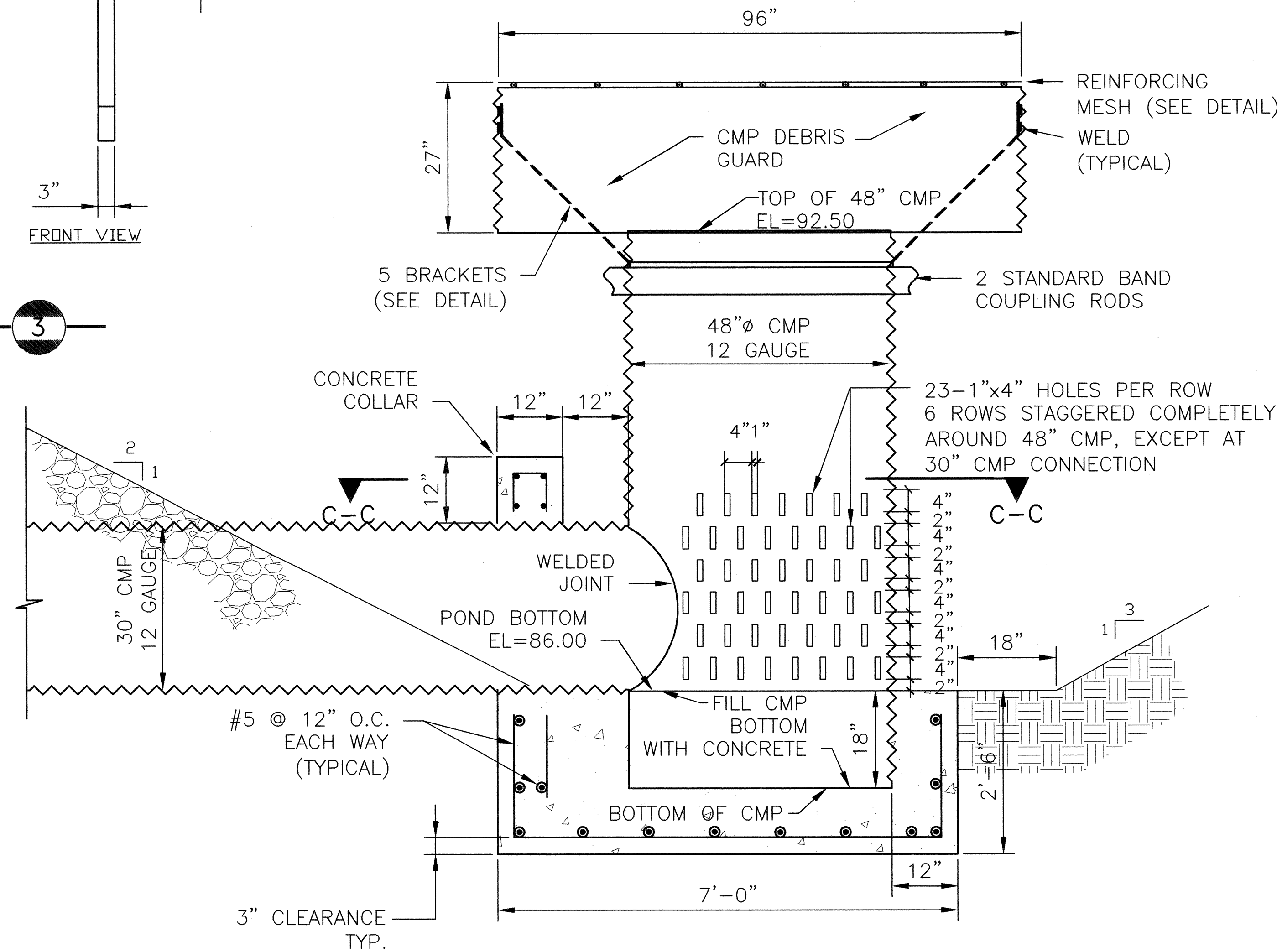
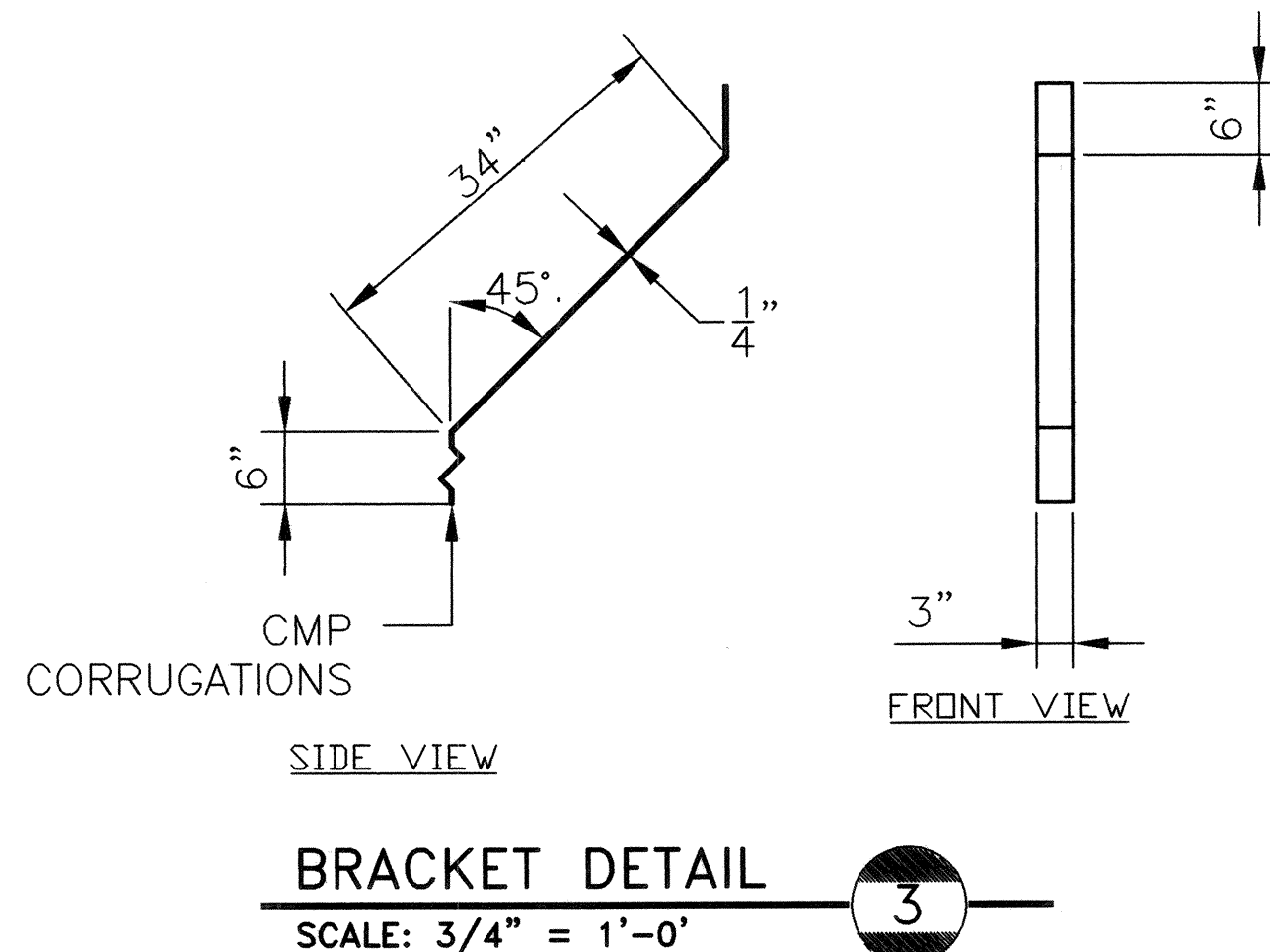


|                  |        |              |      |       |    |   |    |
|------------------|--------|--------------|------|-------|----|---|----|
| City Project No. | 700691 | Zone Map No. | G-15 | Sheet | Of | 7 | 17 |
|------------------|--------|--------------|------|-------|----|---|----|

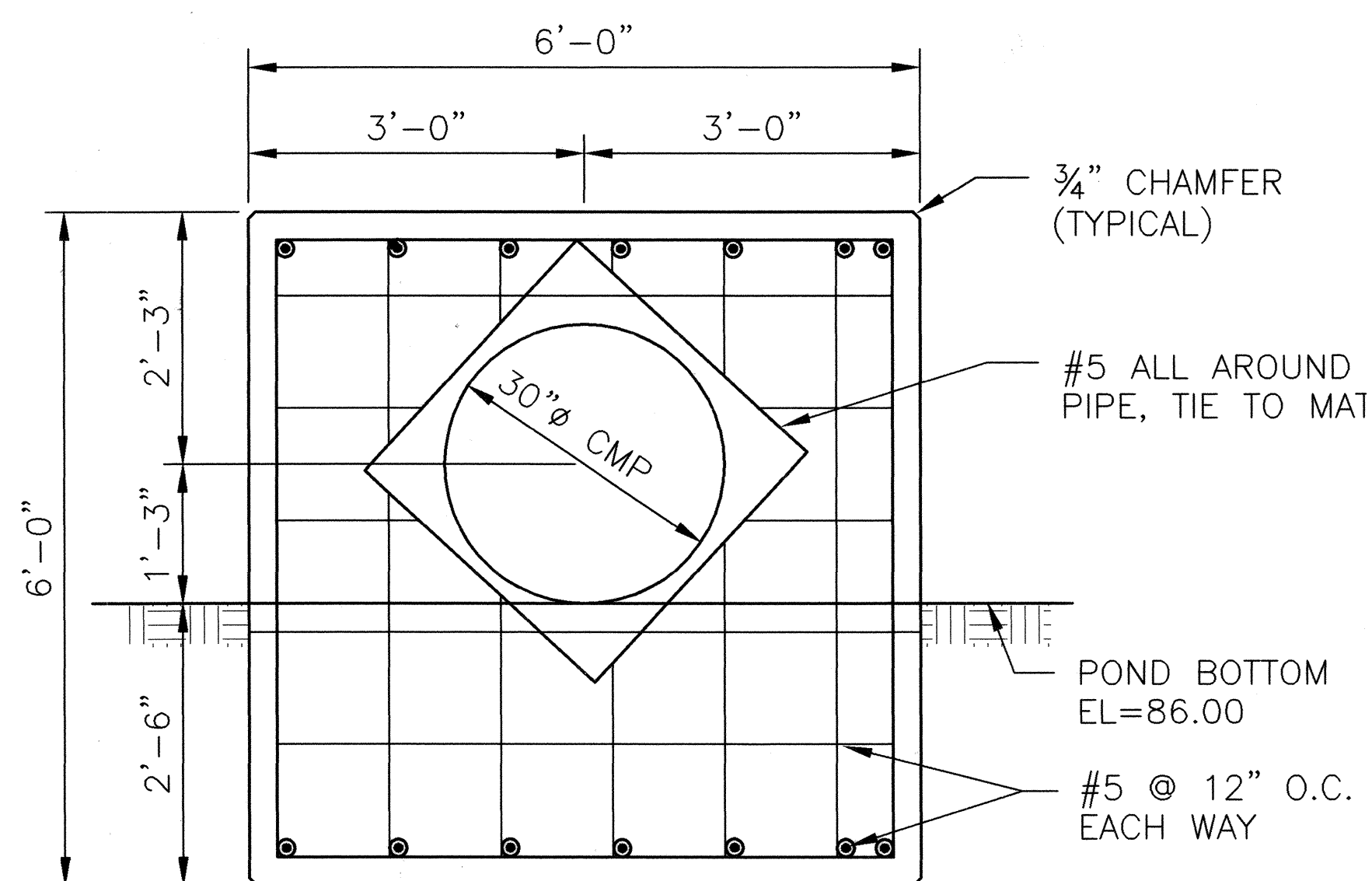


- ① 12"x22' WIRE ENCLOSED RIP RAP AT SPILLWAY SEE DETAIL THIS SHEET.
- ② RETENTION POND BERM SHALL BE COMPACTED TO A DRY DENSITY GREATER THAN 95% OF MAXIMUM DRY DENSITY IN A MOISTURE +/- 2% AS DETERMINED IN ACCORDANCE WITH ASTM D1557.
- ③ SEED ALL DISTURBED AREAS WITH CLASS "A" SEEDING PER CITY SPECIFICATIONS.
- ④ 12"x30' WIRE ENCLOSED RIP RAP BERM TO DIVERT FLOWS TO EXISTING ASPHALT PAVEMENT ON RANKIN ROAD, SEE DETAIL THIS SHEET.

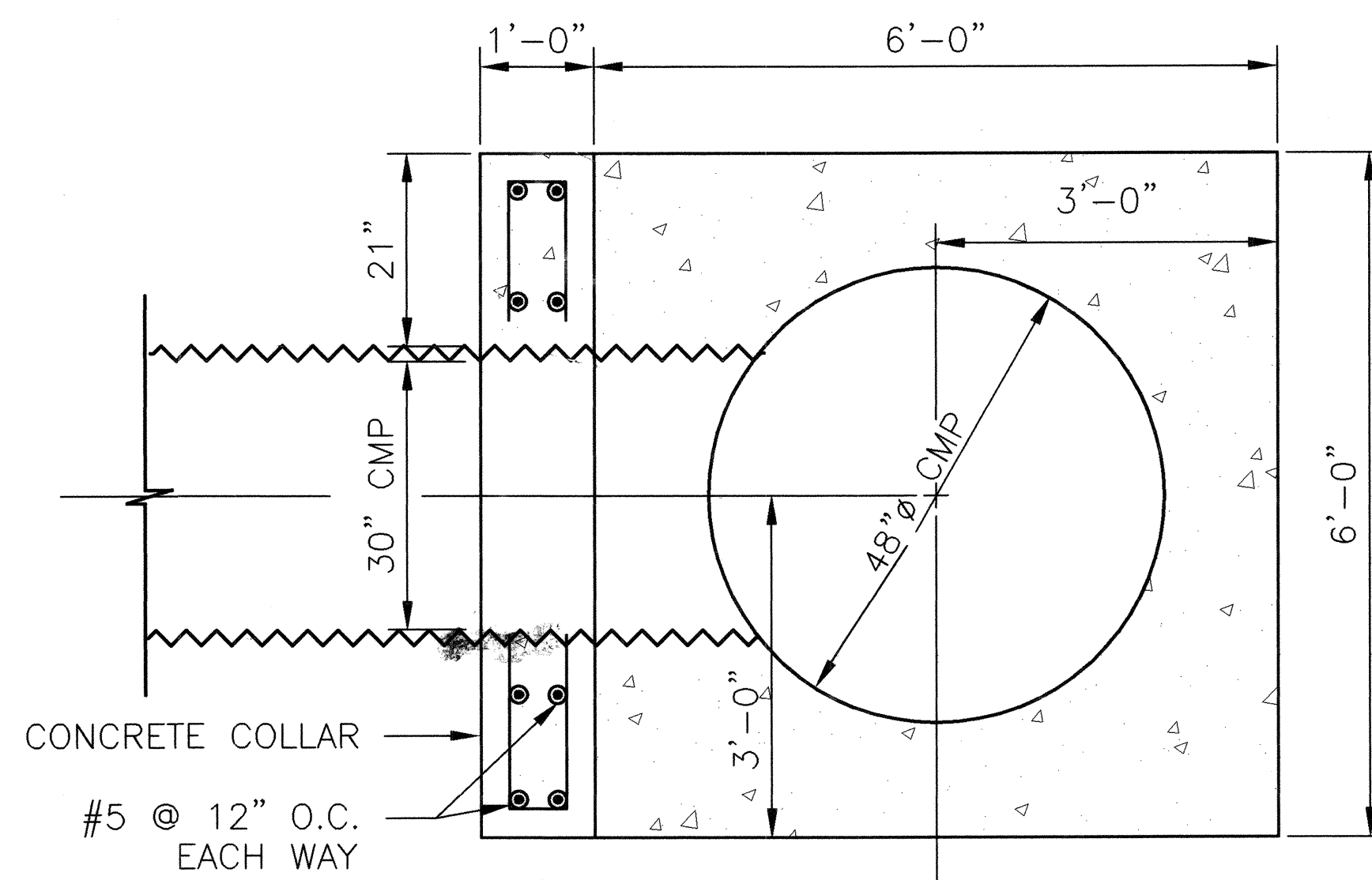
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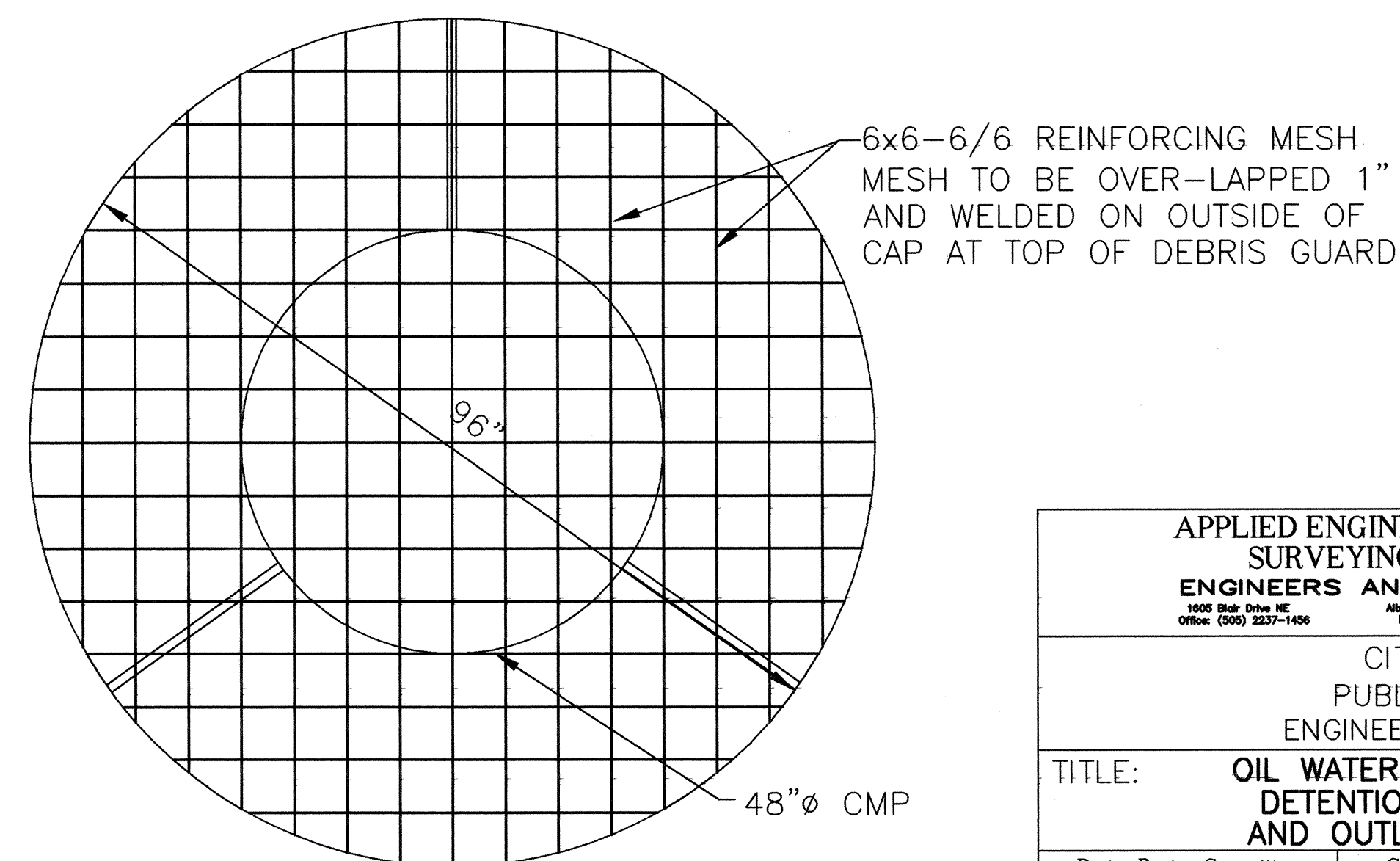
SECTION A-A  
DENTENTION POND - OIL/WATER SEPARATOR No. 1  
SCALE: 1" = 5' VERT.  
1" = 10' HORIZ.



CONCRETE HEADWALL/COLLAR SECTION  
SCALE: 3/4" = 1'-0'



SECTION C-C  
HOODED OUTLET STRUCTURE  
SCALE: 3/4" = 1'-0'

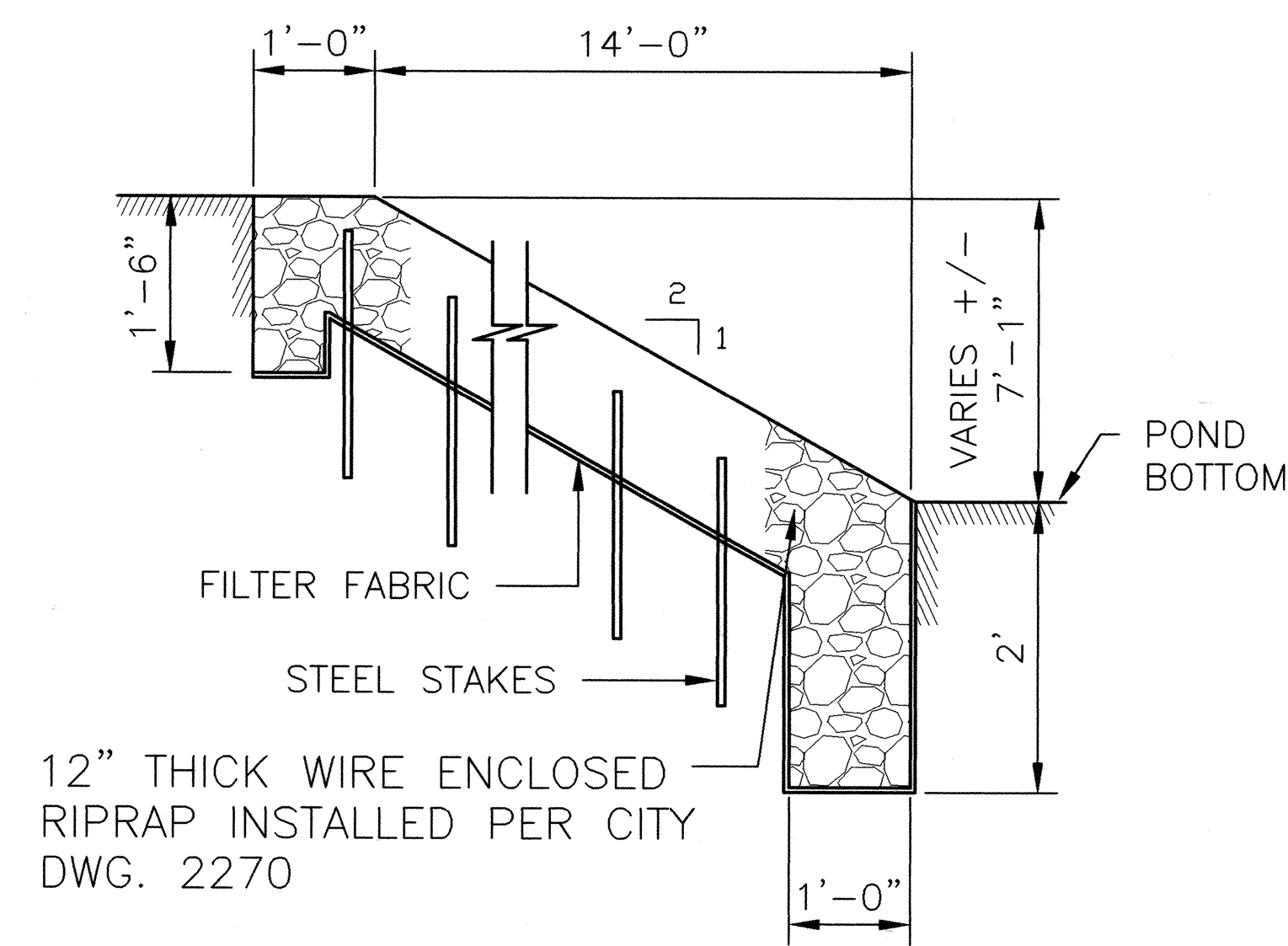


REINFORCING MESH  
DETAIL ABOVE DEBRIS GUARD  
SCALE: 3/4" = 1'-0'

| ENGINEER'S SEAL |  |           |  | SURVEY INFORMATION |  | BENCH MARKS                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | AS BUILT INFORMATION |  |
|-----------------|--|-----------|--|--------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|--|
| NO.             |  | BY        |  | DATE               |  | CONTRACTOR                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | DATE                 |  |
|                 |  |           |  |                    |  | Station is located 3 miles north of downtown Albuquerque, at the intersection of Second Street and Mesalero Road, N.W. To reach the station from the intersection of Central Ave. and Second Street, go north on Second St. 2.8 miles to the station in the center of the median strip of Second St. Station mark is stamped NMSHC brass tablet, stamped "STA.NM47-10", set in top of concrete post projecting 0.1 ft above the ground. ELEV =4957.496 |  |                      |  |
| NO. DATE        |  | REMARKS   |  | BY                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                      |  |
|                 |  | REVISIONS |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                      |  |
|                 |  | DESIGN    |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                      |  |
| DESIGNED BY     |  | DATE      |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                      |  |
| DRAWN BY        |  | DATE      |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                      |  |
| CHECKED BY      |  | DATE      |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                      |  |

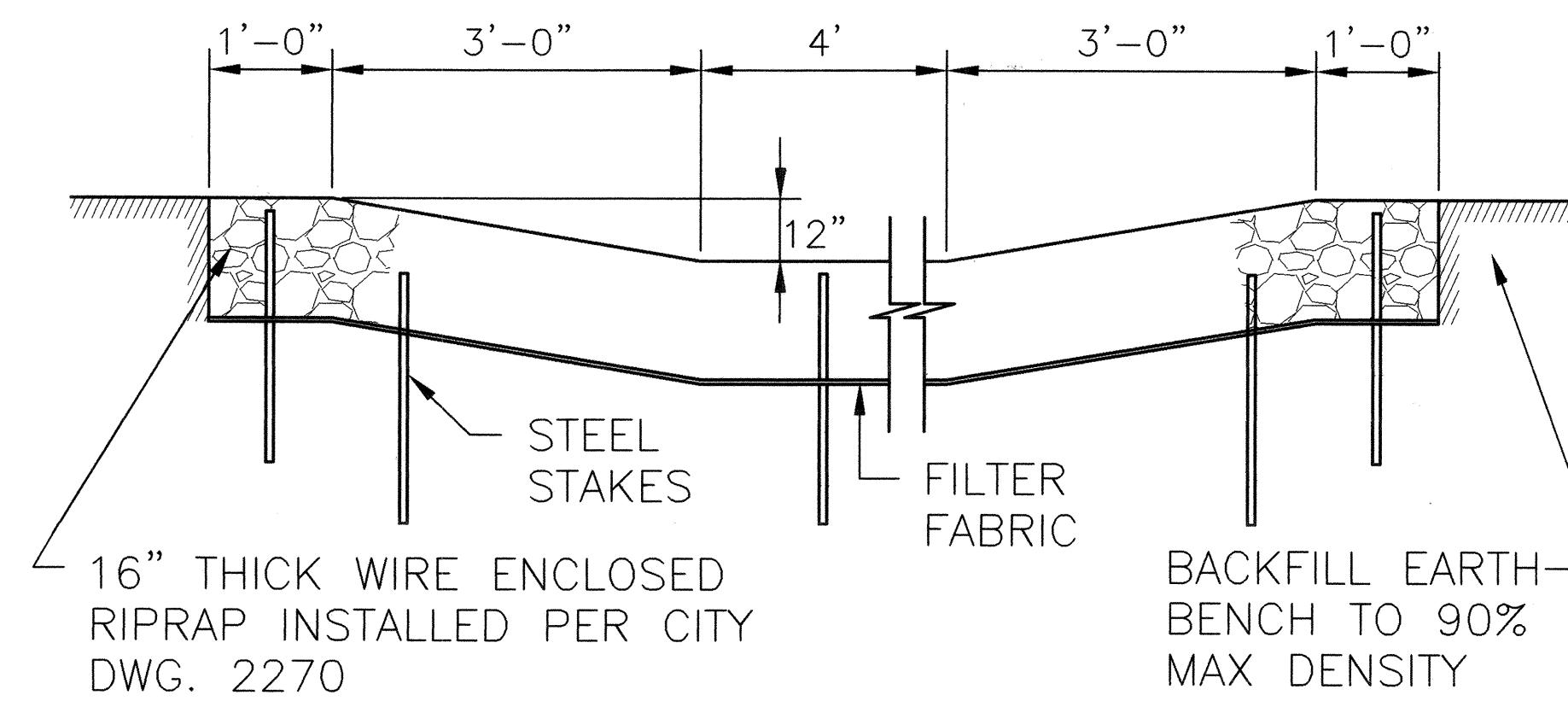


[illegible]



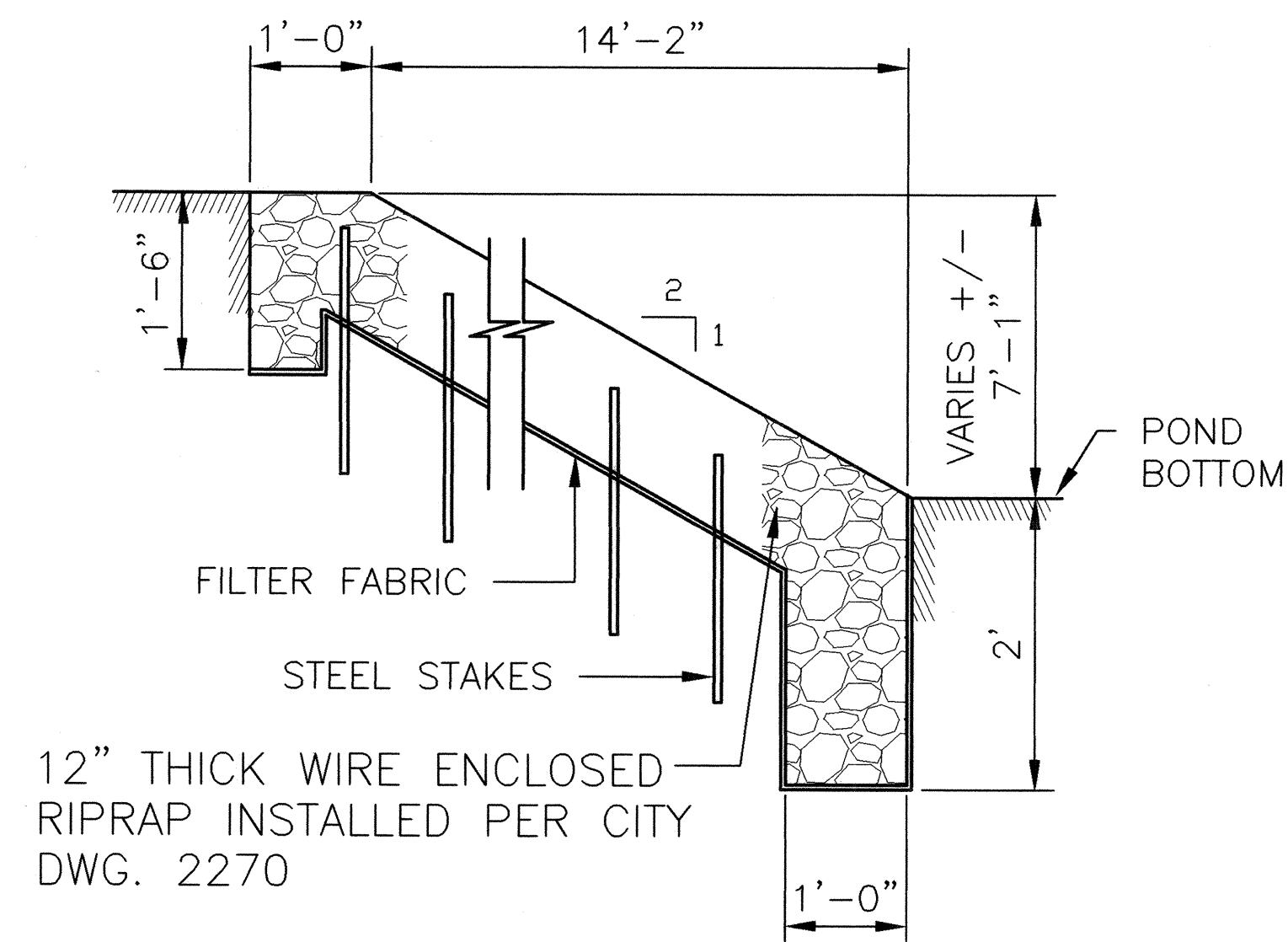
SECTION E-E, (SHEET 9)  
WEST EMBANKMENT AT POND  
SCALE: 3/4" = 1'-0'

EE



SECTION D-D, (SHEET 9)  
WIRE ENCLOSED RUNDOWN  
SCALE: 3/4" = 1'-0'

DD



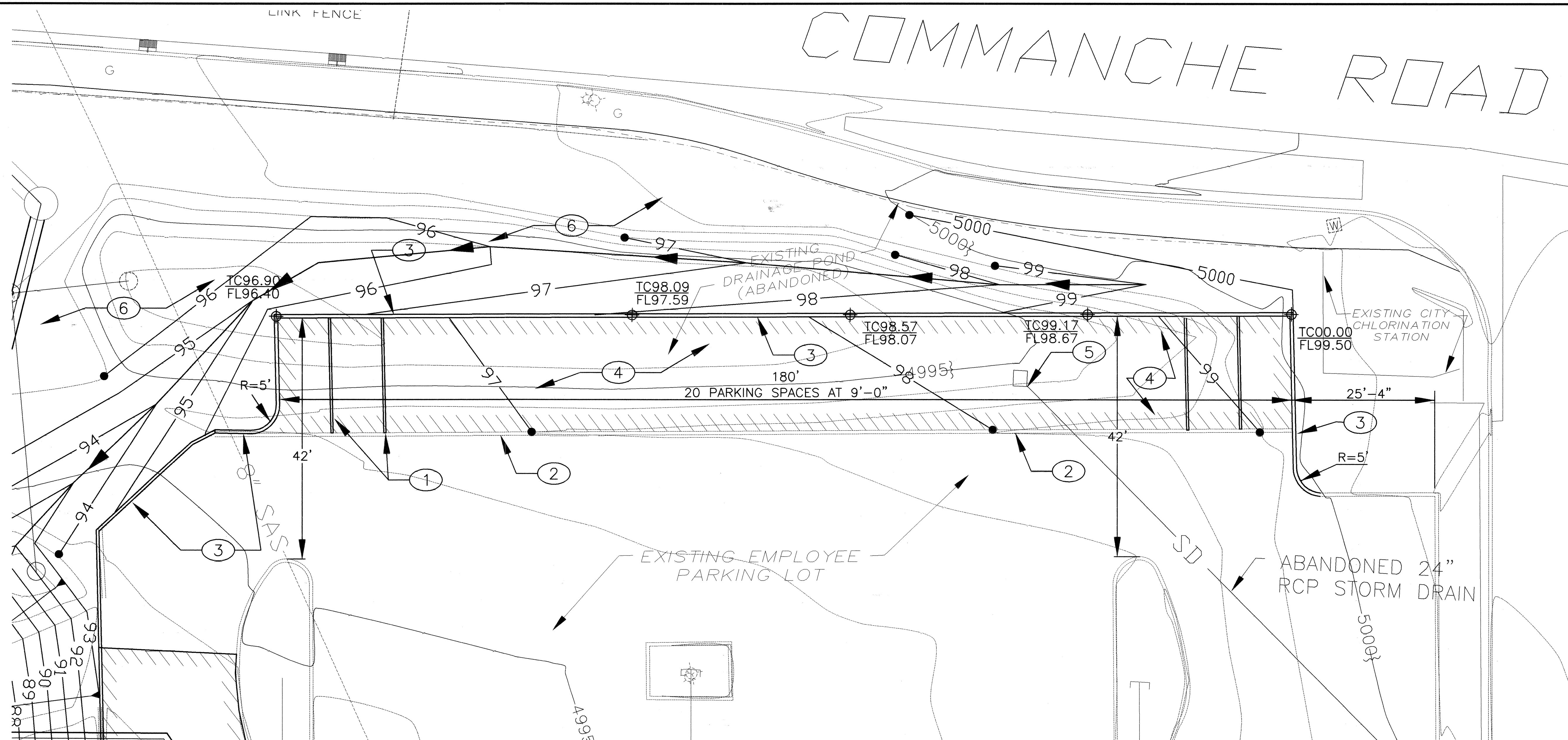
SECTION F-F, (SHEET 10)  
WEST EMBANKMENT AT POND  
SCALE: 3/4" = 1'-0'

FF

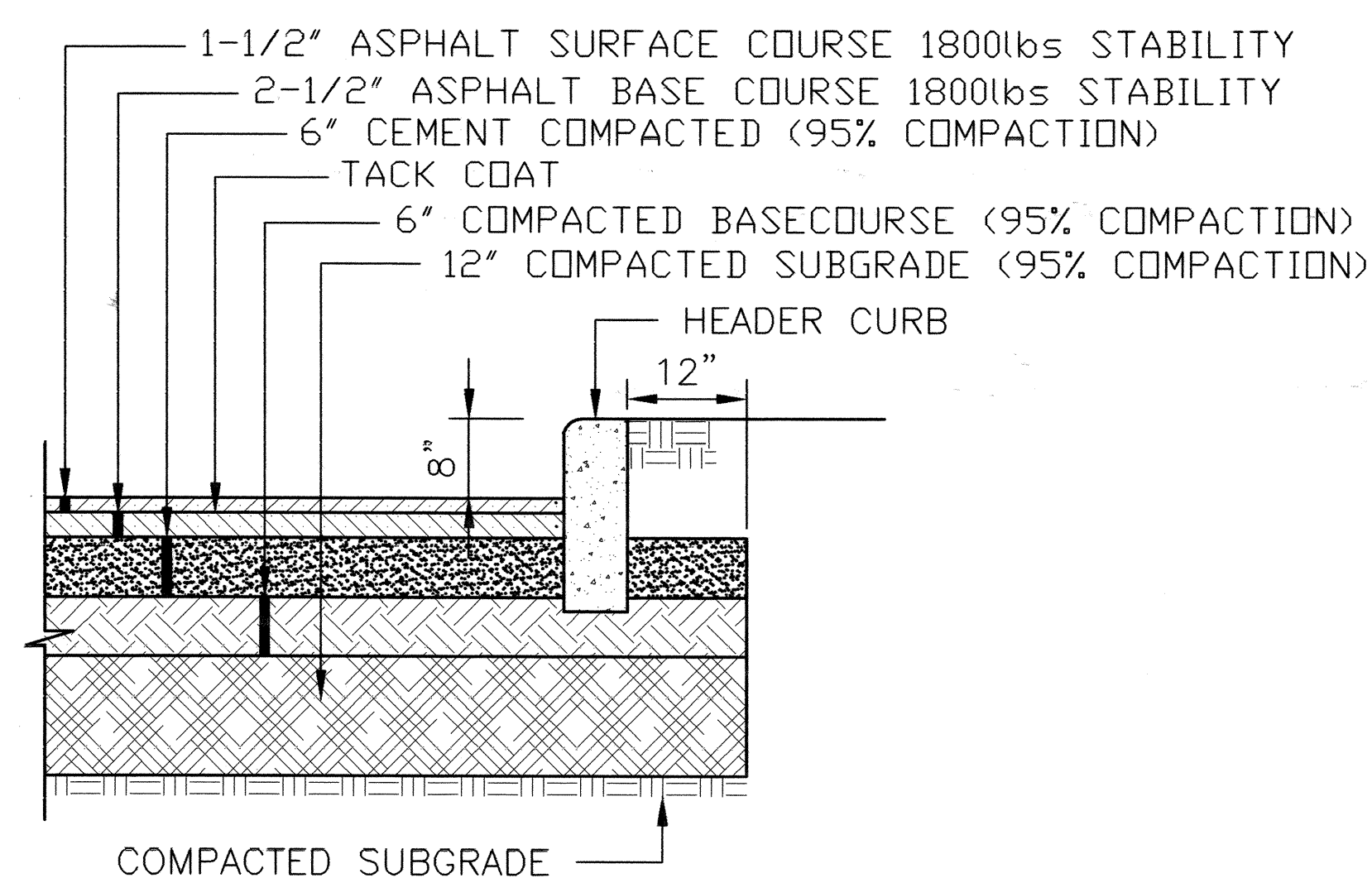
| SURVEY INFORMATION |    | BENCH MARKS |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AS BUILT INFORMATION   |      |
|--------------------|----|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|
| NO.                | BY | DATE        | CONTRACTOR                                                                                                                                                                                                                                                                                                                                                                                                                                              | WORK                   | DATE |
|                    |    |             | Station is located 3 miles north of downtown Albuquerque, at the intersection of Second Street and Mesalero Road, N.W. To reach the station from the intersection of Central Ave. and Second Street, go north on Second St. 2.8 miles to the station in the center of the median strip of Second St. Station mark is stamped NNSHC brass tablet stamped 'STA. NM47-10' set in top of concrete post projecting 0.1 ft above the ground. ELEV. = 4977.466 | STATIONED BY           | DATE |
|                    |    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ACCEPTANCE BY          | DATE |
|                    |    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FIELD DRAWINGS BY      | DATE |
|                    |    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CORRECTED BY           | DATE |
|                    |    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MICRO-FILM INFORMATION | DATE |
|                    |    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RECORDED BY            | DATE |
|                    |    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NO.                    | DATE |



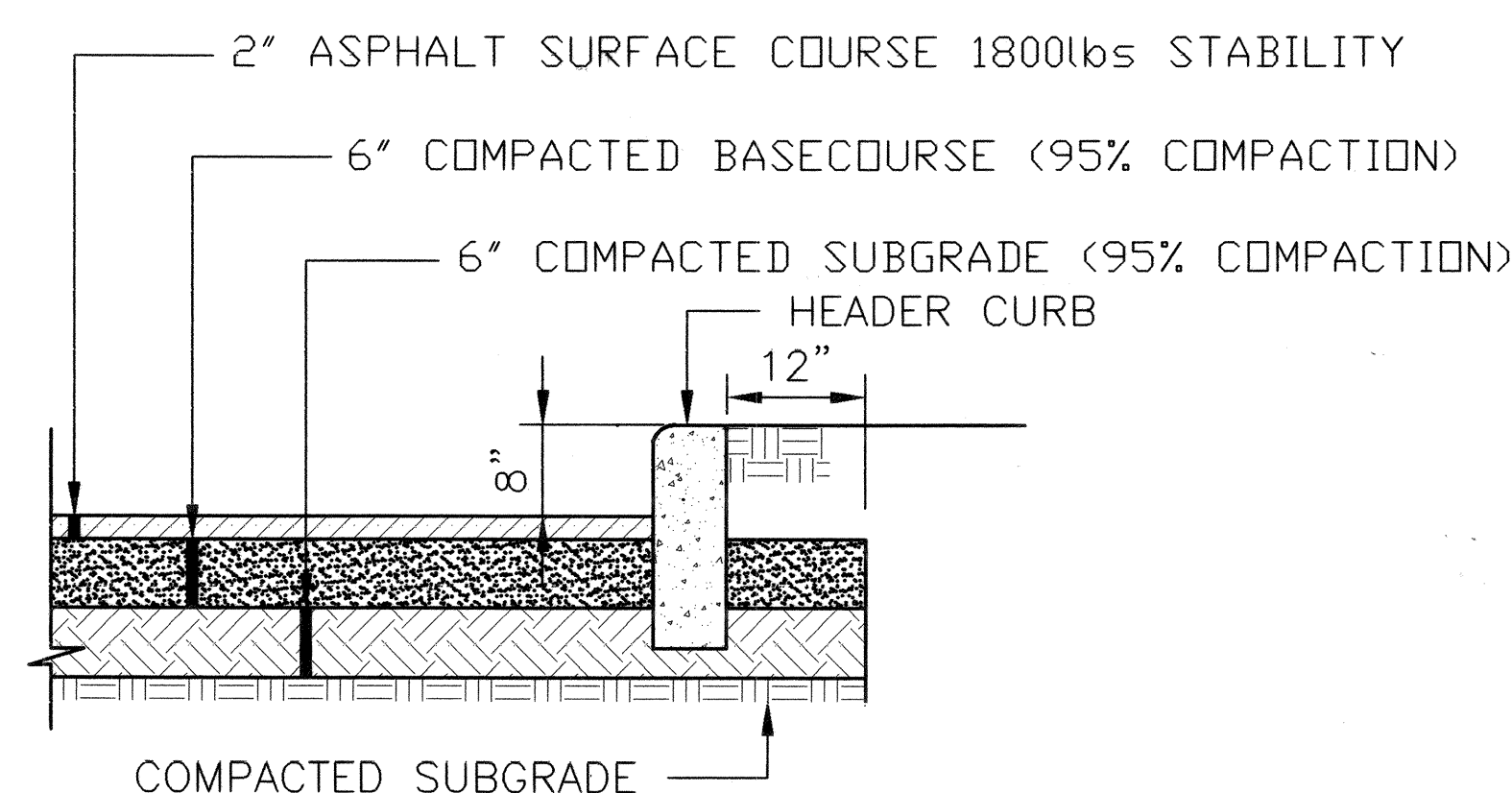
|                                                                                                                                                                                        |                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>APPLIED ENGINEERING AND SURVEYING, INC.</b><br>ENGINEERS AND PLANNERS<br>1609 Blar Drive NE<br>Office: (505) 227-1456<br>Albuquerque, New Mexico 87112<br>Facsimile: (505) 237-1456 |                                                    |
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP                                                                                                        |                                                    |
| TITLE: <b>MISCELLANEOUS DETAILS</b>                                                                                                                                                    |                                                    |
| Design Review Committee<br>APPROVED<br>NOV 17 2003                                                                                                                                     | City Engineer Approval<br>APPROVED<br>DEC - 1 2003 |
| City Project No. <b>700691</b>                                                                                                                                                         | Zone Map No. <b>G-15</b>                           |
| Sheet <b>12</b> of <b>17</b>                                                                                                                                                           | Mo./Day/Yr.<br>Mo./Day/Yr.                         |



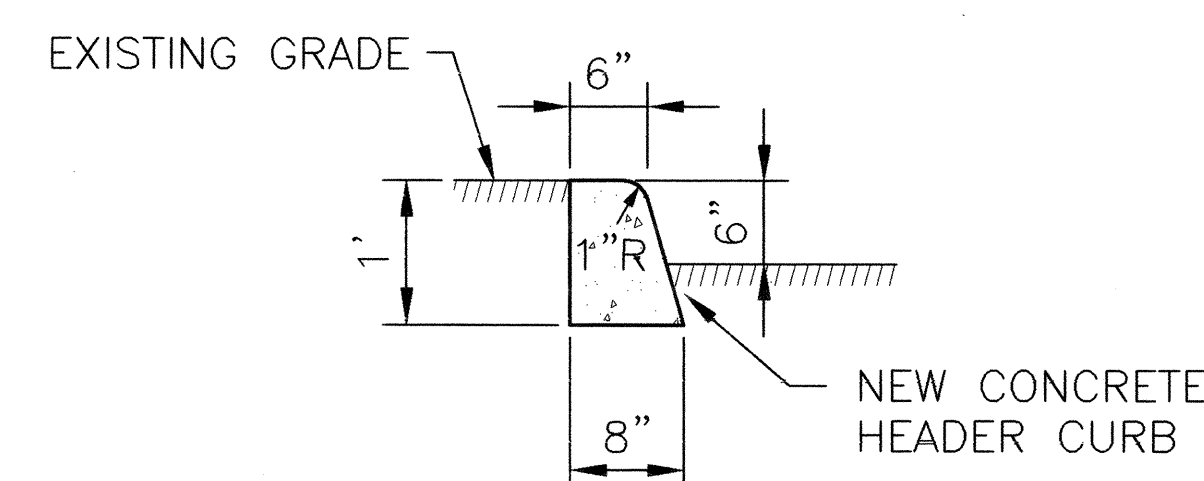
**EXPANSION OF EMPLOYEE PARKING LOT**  
SCALE: 1" = 10'



**PAVEMENT FOR TRUCK PARKING AREA**  
SCALE: 3/4" = 1'-0"



**PAVEMENT FOR EMPLOYEE PARKING AREA**  
SCALE: 3/4" = 1'-0"



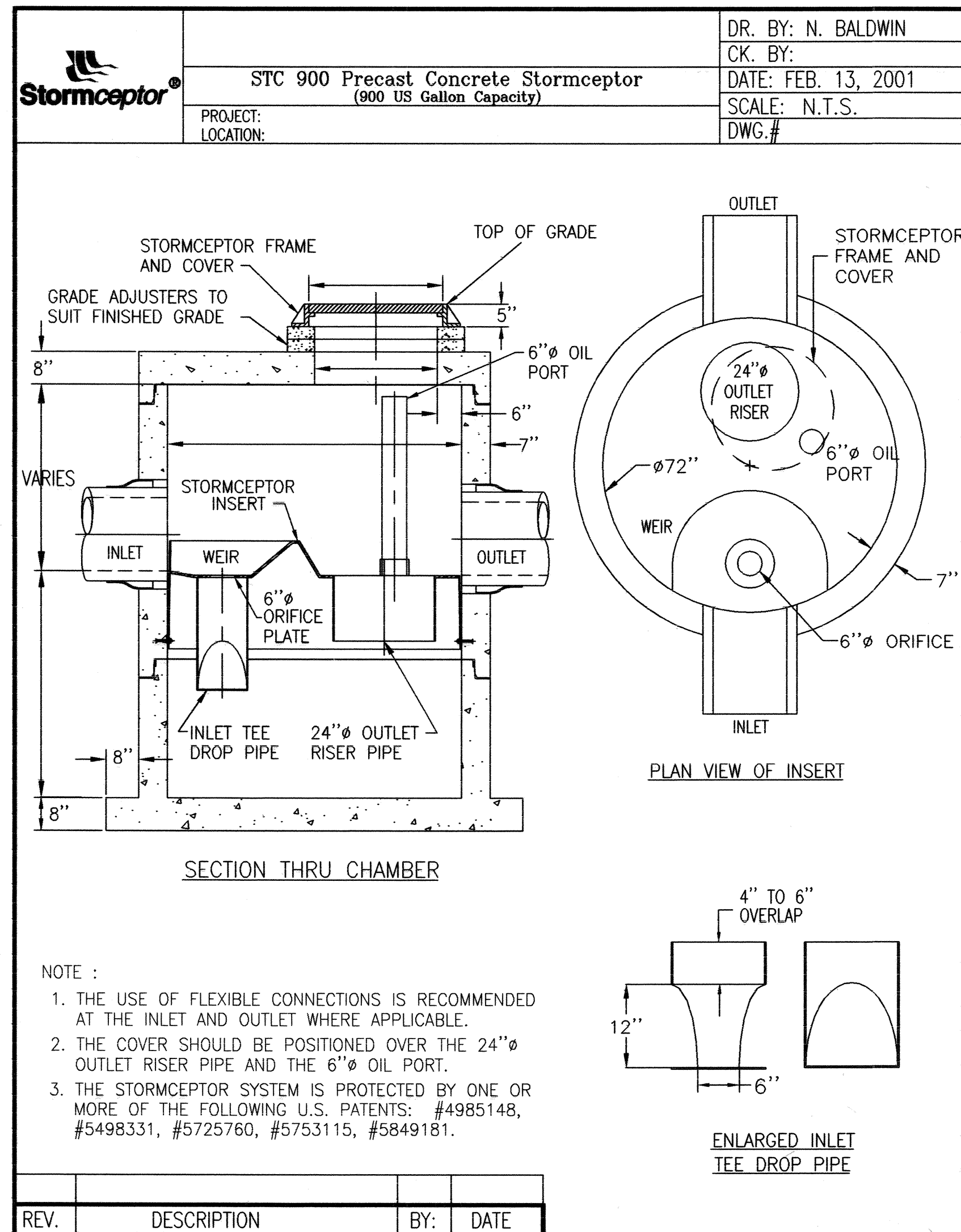
**TYPICAL HEADER CURB**  
SCALE: 3/4" = 1'-0"

### CONSTRUCTION NOTES

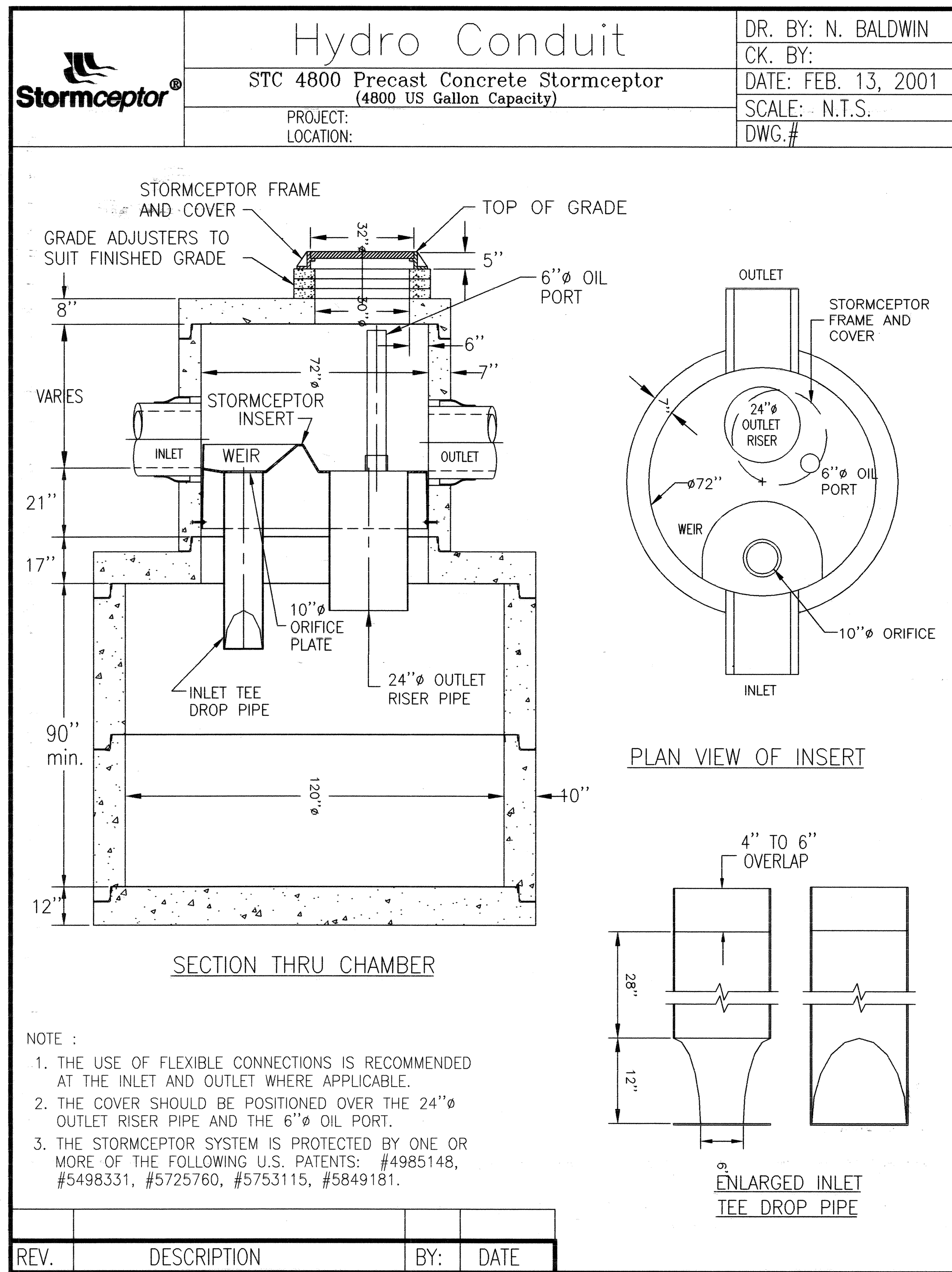
1. PROVIDE 4" WHITE STRIPE FOR 9 FOOT SPACES AT 20' LONG, FOR NEW PARKING LOT ADDITION. ALL TRAFFIC PAINT SHALL COMPLY TO THE REQUIREMENTS OF THE NEW MEXICO STATE HIGHWAY DEPARTMENT. SECOND COAT OF PAINT SHALL BE APPLIED 21 DAYS AFTER FIRST COAT APPLICATION.
2. REMOVE EXISTING ASPHALT CURB. MATCH NEW ASPHALT GRADE WITH EXISTING ASPHALT GRADE. CONSTRUCT NEW CONCRETE HEADER CURB.
3. NEW PAVEMENT FOR EMPLOYEE PARKING LOT SEE SECTION THIS SHEET.
4. LOCATE END OF STORM DRAIN AND ENTRANCE (SEE SHEET 2) PROVIDE 12" THICK CONCRETE PLUG AT BOTH ENDS.
5. SEED ALL DISTURBED AREAS WITH CLASS "A" SEEDING PER CITY SPECIFICATIONS

|                                                                                                                                                                                              |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>APPLIED ENGINEERING AND SURVEYING, INC.</b><br>ENGINEERS AND PLANNERS<br><small>1400 West Drive NE, Albuquerque, NM 87102<br/>         Office: (505) 223-1406 Fax: (505) 223-1406</small> |                                      |
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP                                                                                                              |                                      |
| <b>TITLE: EXPANSION OF EMPLOYEE PARKING LOT AND PAVING SECTIONS</b>                                                                                                                          |                                      |
| Design Review Committee<br>NOV 17 2003                                                                                                                                                       | City Engineer Approval<br>DEC 1 2003 |
| City Project No. 700691                                                                                                                                                                      | Zone Map No. G-15                    |
| Sheet 13                                                                                                                                                                                     | Of 17                                |

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**OIL-WATER SEPARATOR No. 1**



**OIL-WATER SEPARATOR No. 3**

| APPLIED ENGINEERING AND SURVEYING, INC.<br>ENGINEERS AND PLANNERS<br>1800 Shaw Drive SE<br>Atlanta, GA 30316<br>Office: (404) 237-1456 Fax: (404) 237-1456 |                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP                                                                            |                                           |
| TITLE: <b>OIL-WATER SEPARATOR No. 1 AND OIL-WATER SEPARATOR No. 3 DETAILS</b>                                                                              |                                           |
| Design Review Committee                                                                                                                                    | City Engineer Approval                    |
| APPROVED<br>NOV 17 2003<br>PROJECT ENGINEER                                                                                                                | APPROVED<br>DEC - 1 2003<br>CITY ENGINEER |
| City Project No. 700691                                                                                                                                    | Zone Map No. G-15                         |
| Sheet 14                                                                                                                                                   | Of 17                                     |

| NO. | DATE | REVISIONS | BY |
|-----|------|-----------|----|
|     |      |           |    |

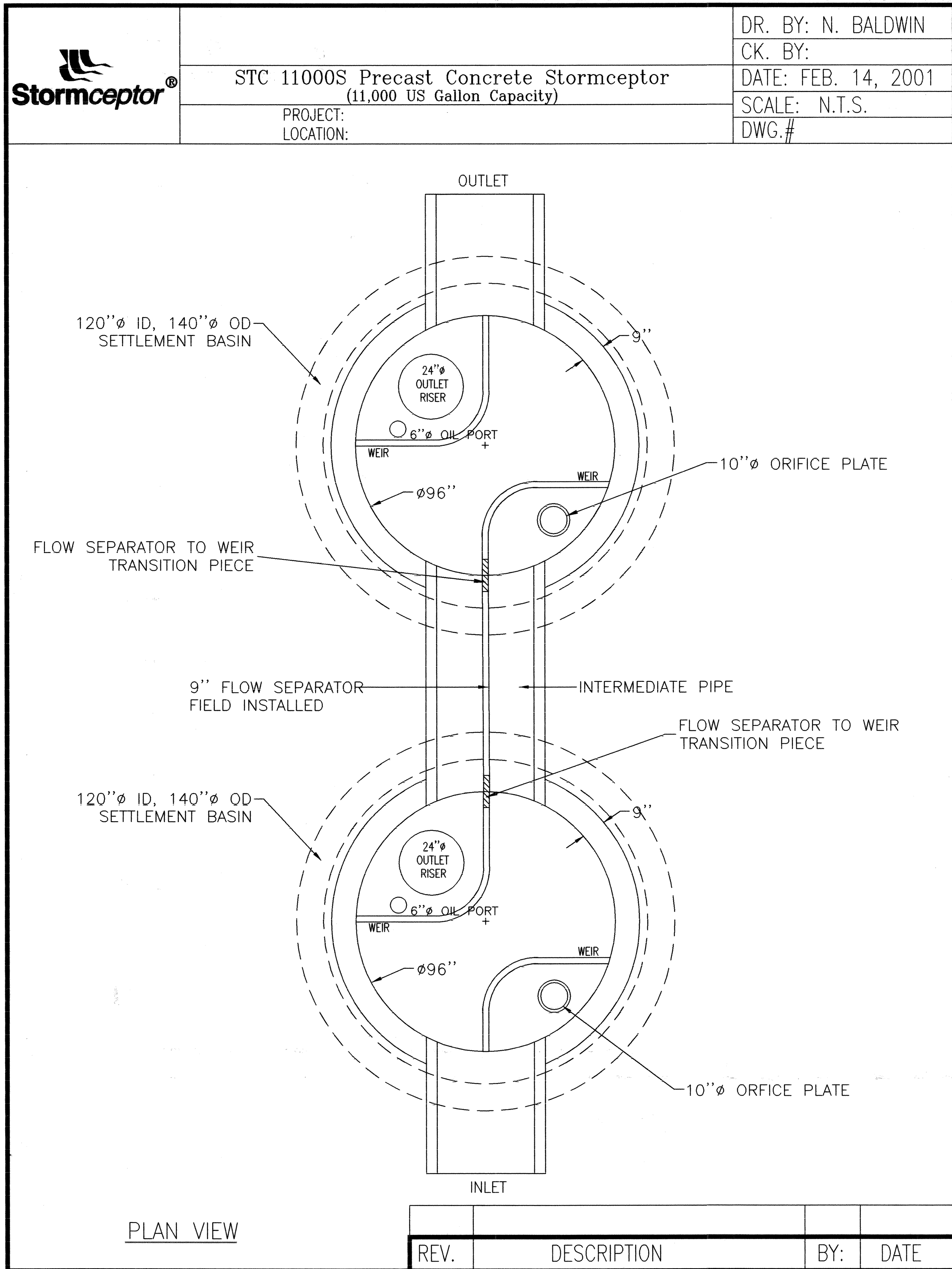
| DESIGNED BY A.E.S. | DATE 08/00 |
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| DRAWN BY A.E.S. | DATE 08/00 |
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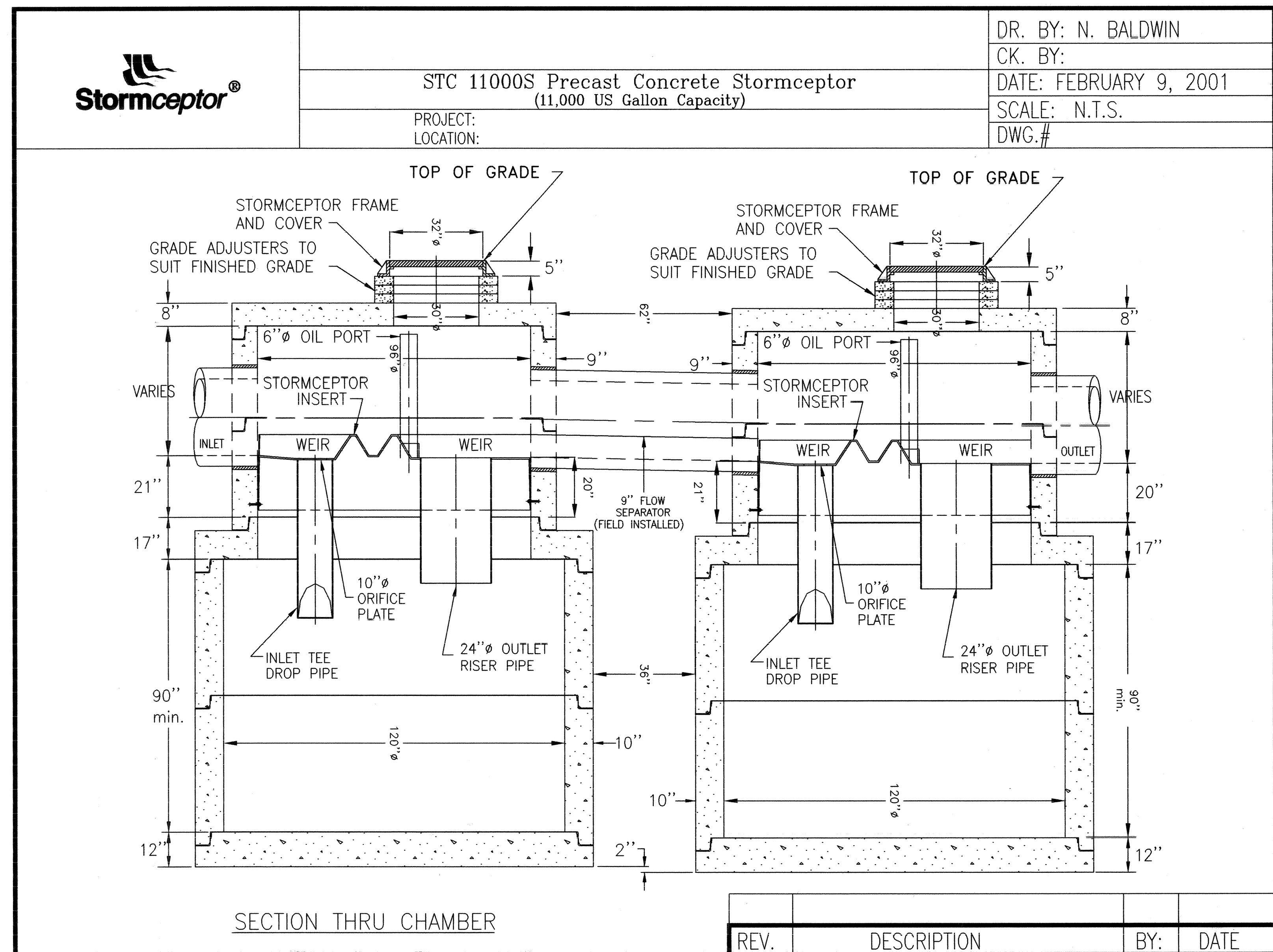
| CHECKED BY A.E.S. | DATE 08/00 |
|-------------------|------------|
|                   |            |

| BENCH MARKS                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Station is located 3 miles north of downtown Albuquerque at the intersection of Second Street and Mesclero Road, N.W. To reach the station from the intersection of Central Ave. and Second Street, go north on Second St. 2.8 miles to the station in the center of the median strip of Second St. Station mark is stamped NWSHC brass tablet, stamped "STAN47-10", set in top of concrete post projecting 0.1 ft above the ground. ELEV=4967.496 |  |

| AS BUILT INFORMATION |      |
|----------------------|------|
| CONTRACTOR           | DATE |
|                      |      |
| STAMPED BY           | DATE |
|                      |      |
| FIELD ACCEPTANCE BY  | DATE |
|                      |      |
| REVISION BY          | DATE |
|                      |      |
| CORRECTED BY         | DATE |
|                      |      |
| RECORDED BY          | DATE |
|                      |      |
| NO.                  |      |



OIL-WATER SEPARATOR No. 2 - PLAN VIEW



OIL-WATER SEPARATOR No. 2 - CROSS SECTION

APPLIED ENGINEERING AND SURVEYING, INC.  
ENGINEERS AND PLANNERS  
2000 Main Street, Suite 200  
Albuquerque, NM 87102  
Phone: (505) 237-1456 Fax: (505) 237-1456

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: OIL-WATER SEPARATOR No. 2  
DETAILS

Design Review Committee City Engineer Approval

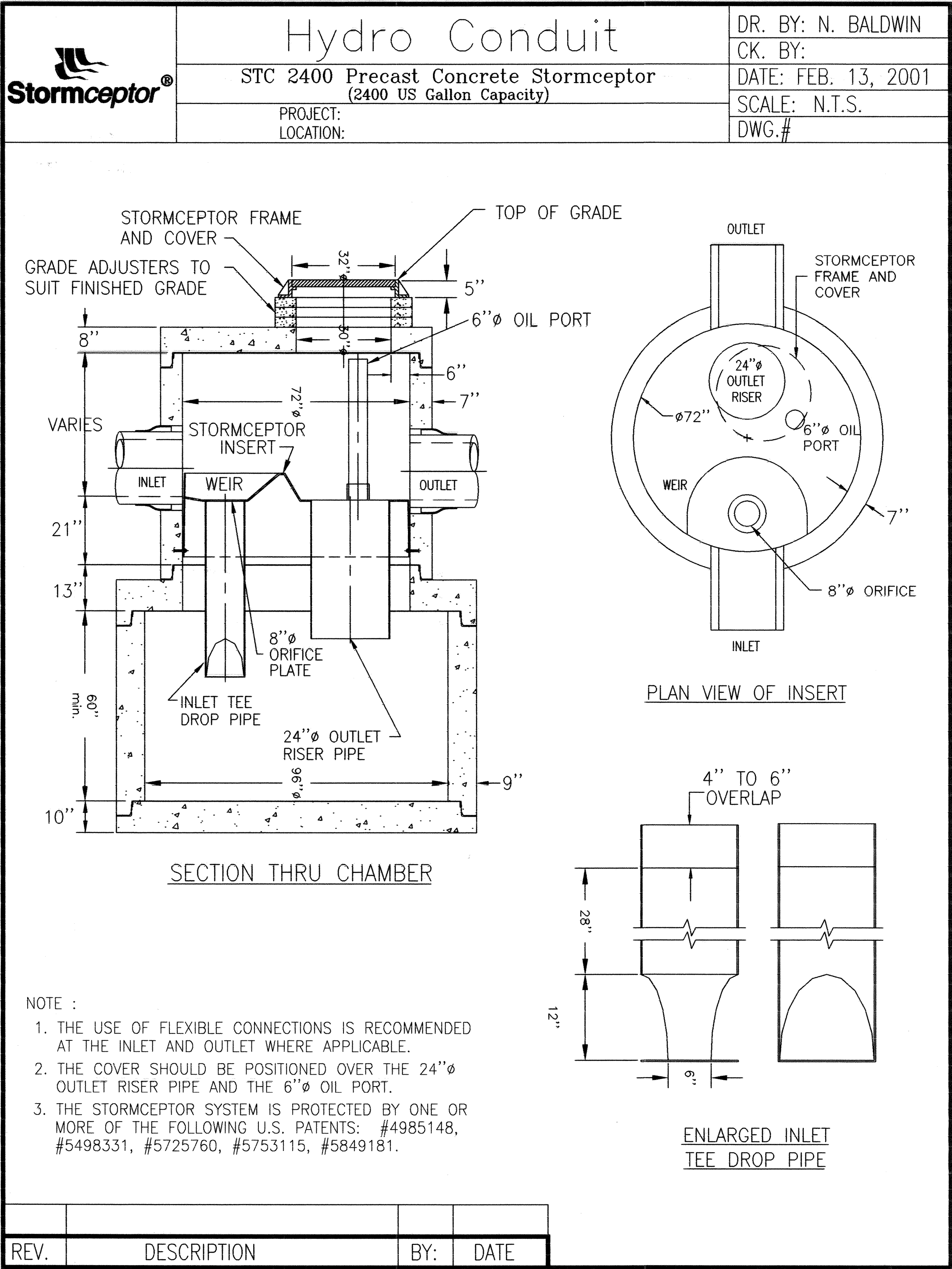
APPROVED NOV 17 2003

APPROVED DEC 1 2003

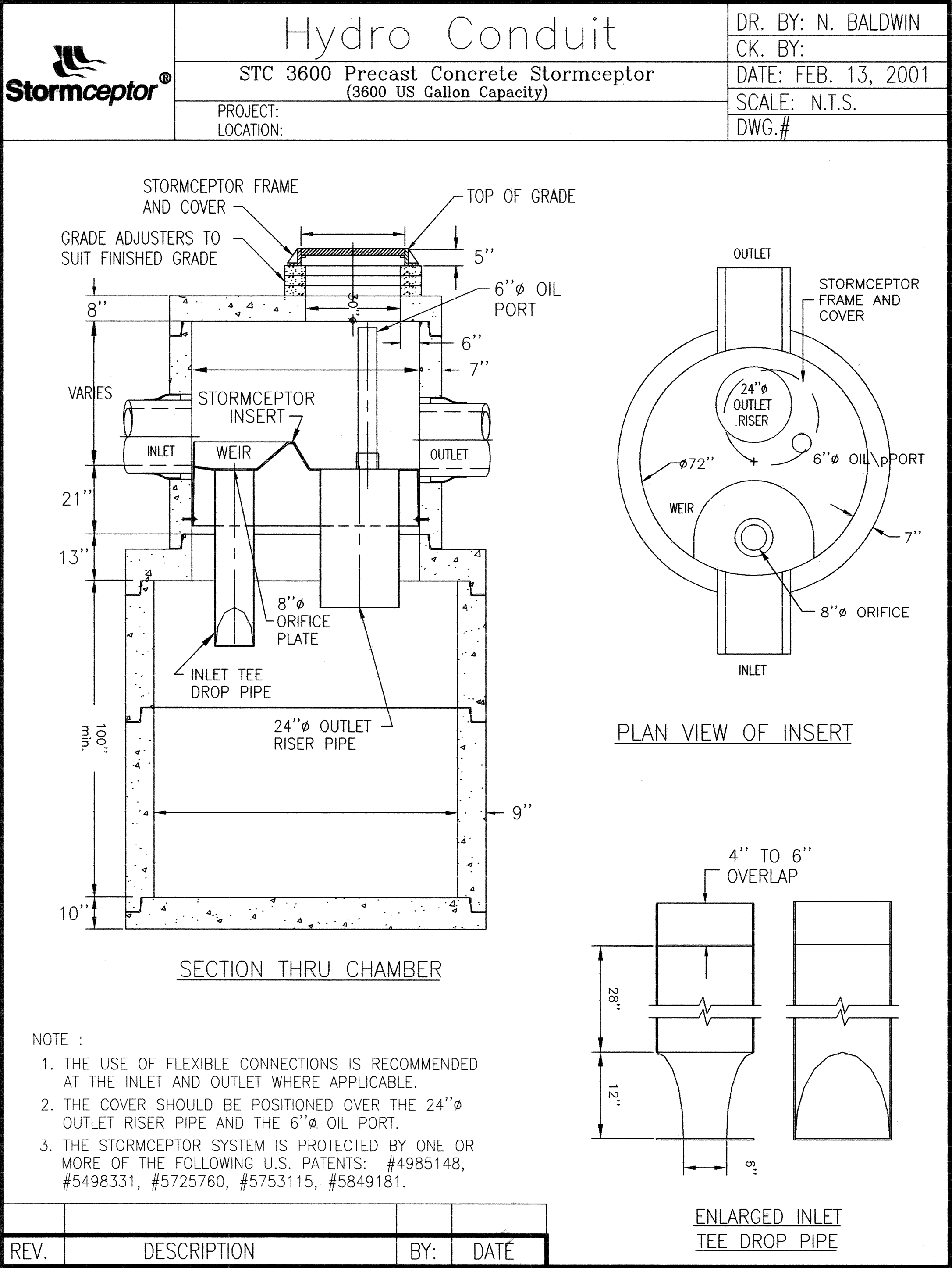
City Project No. 700691 Zone Map No. G-15 Sheet 15 of 17

| NO. | DATE | REVISIONS | BY |
|-----|------|-----------|----|
|     |      |           |    |

DESIGNED BY A.E.S. DATE 08/00  
DRAWN BY A.E.S. DATE 08/00  
CHECKED BY A.E.S. DATE 08/00



OIL-WATER SEPARATOR No. 4



OIL-WATER SEPARATOR No. 5

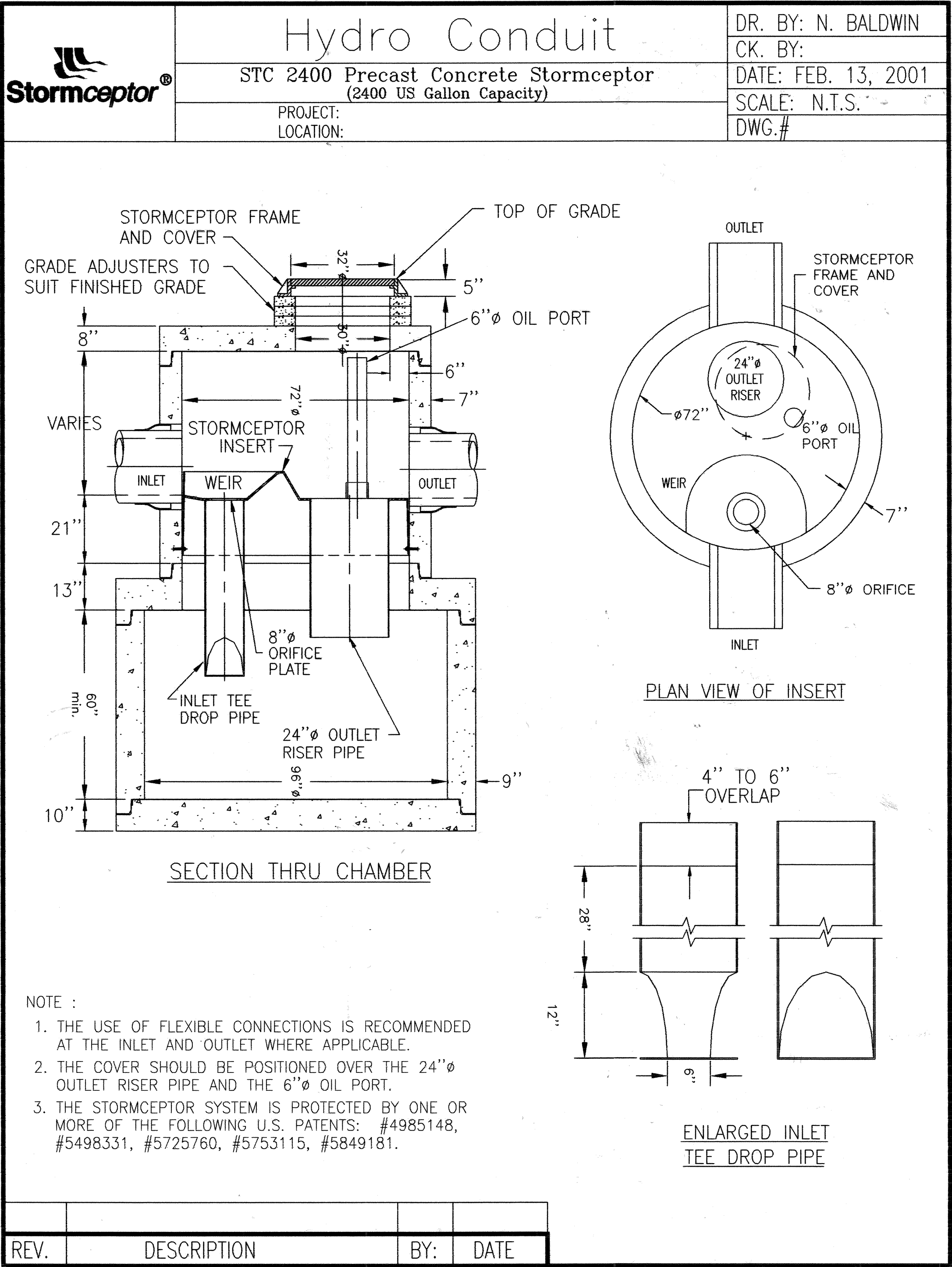
APPLIED ENGINEERING AND SURVEYING, INC.  
ENGINEERS AND PLANNERS  
1400 San Diego Ave. Albuquerque, New Mexico 87112  
Office (505) 237-1400 Fax (505) 237-1401

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: OIL-WATER SEPARATOR No. 4 AND OIL-WATER SEPARATOR No. 5 DETAILS

| Design Review Committee | City Engineer Approval        | Mo./Day/Yr. | Mo./Day/Yr. |
|-------------------------|-------------------------------|-------------|-------------|
| APPROVED<br>NOV 17 2003 | DEC - 1 2003<br>CITY ENGINEER |             |             |

City Project No. 700691 Zone Map No. G-15 Sheet 16 Of 17



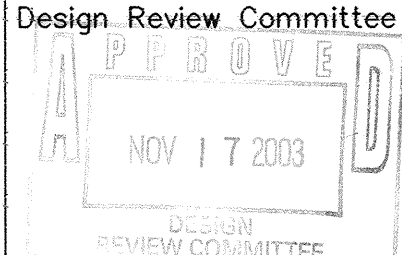
OIL-WATER SEPARATOR No. 6

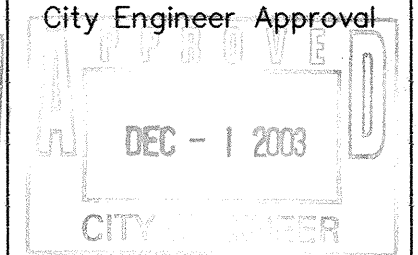
APPLIED ENGINEERING AND SURVEYING, INC.  
ENGINEERS AND PLANNERS  
1600 Blvd. Drive NE  
Office: (505) 237-1456

Albuquerque, New Mexico 87112  
Telephone: (505) 237-1456

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: OIL-WATER SEPARATOR No. 6  
DETAILS

Design Review Committee  


City Engineer Approval  


Mo./Day/Yr.  

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Mo./Day/Yr.  

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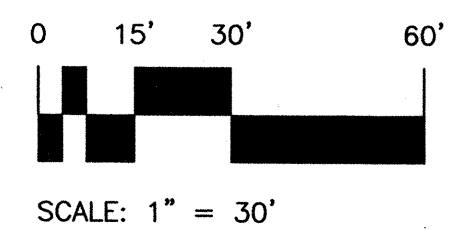
City Project No. 700691

Zone Map No. G-15

Sheet 17 Of 17

| ENGINEER'S SEAL                                                                       |  |  |  | SURVEY INFORMATION |  |  |  | BENCH MARKS                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  | AS BUILT INFORMATION   |  |  |  |
|---------------------------------------------------------------------------------------|--|--|--|--------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------|--|--|--|
|  |  |  |  | FIELD NOTES        |  |  |  | Station is located 3 miles north of downtown Albuquerque, at the intersection of Second Street and Mesalero Road, N.W. To reach the station from the intersection of Central Ave. and Second Street, go north on Second St. 2.8 miles to the station in the center of the median strip of Second St. Station mark is stamped NMHC brass tablet, stamped "STA.NM47-10", set in top of concrete post projecting 0.1 ft above the ground. ELEV.=4957.496 |  |  |  | CONTRACTOR             |  |  |  |
|                                                                                       |  |  |  | NO.                |  |  |  | DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  | DATE                   |  |  |  |
|                                                                                       |  |  |  | BY                 |  |  |  | BY                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  | BY                     |  |  |  |
|                                                                                       |  |  |  | REMARKS            |  |  |  | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  | REMARKS                |  |  |  |
|                                                                                       |  |  |  | DESIGN             |  |  |  | DESIGN                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | DESIGN                 |  |  |  |
| DESIGNED BY A.E.S.                                                                    |  |  |  | DATE 08/00         |  |  |  | DRAWN BY A.E.S.                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  | MICRO-FILM INFORMATION |  |  |  |
| CHECKED BY A.E.S.                                                                     |  |  |  | DATE 08/00         |  |  |  | RECORDED BY                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  | NO.                    |  |  |  |

1. TWO WORKING DAY PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CALL FOR LOCATION OF EXISTING UTILITIES.
2. ALL WORK WITHIN THE CITY RIGHT OF WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE CITY OF ALBUQUERQUE STANDARD AND PROCEDURE.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, LAWS, AND RULES CONCERNING SAFETY AND HEALTH.
4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE EXISTING SITE CONDITIONS AND INFORM THE ARCHITECT / ENGINEER OF ANY DISCREPANCY BETWEEN THE INFORMATION SHOWN THE PLANS AND THOSE OF THE EXISTING SITE.
5. CONTRACTOR SHALL PROVIDE THE ARCHITECT / ENGINEER AS BUILT SURVEY FOR ENGINEER'S CERTIFICATION.
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NMSHD STANDARD SPECIFICATIONS
7. CONTRACTOR SHALL COMPLY WITH STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SPECIFIC TO THIS PROJECT. SWPPP TO BE PROVIDED BY OWNER. (COORDINATE WITH SHEET 2 OF 17)



## RETAINING WALL SITE PLAN

**NOVEMBER 18, 2003**

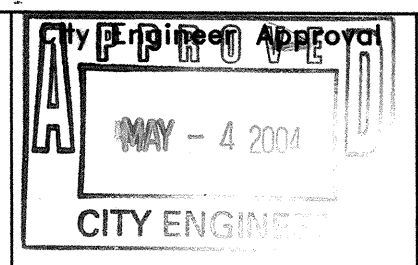
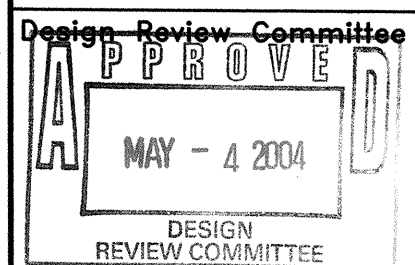
$$1'' = 30' - 0''$$


CLAUDIO VIGIL ARCHITECTS

1801 Rio Grande NW, #2, Albuquerque, NM 87104  
Phone: 505/842-1113 Fax: 505/842-1330

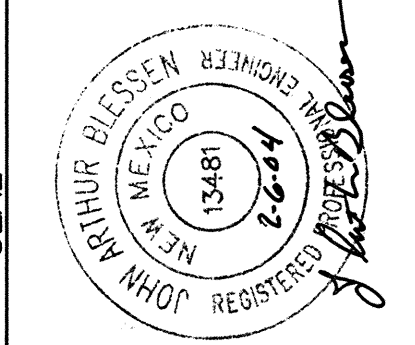
CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM  
ENGINEERING & ARCHITECTURAL SECTION

TITLE: **SOLID WASTE MANAGEMENT DEPARTMENT  
4600 EDITH BOULEVARD, N.E.  
RETAINING WALL - ALTERNATE 1**

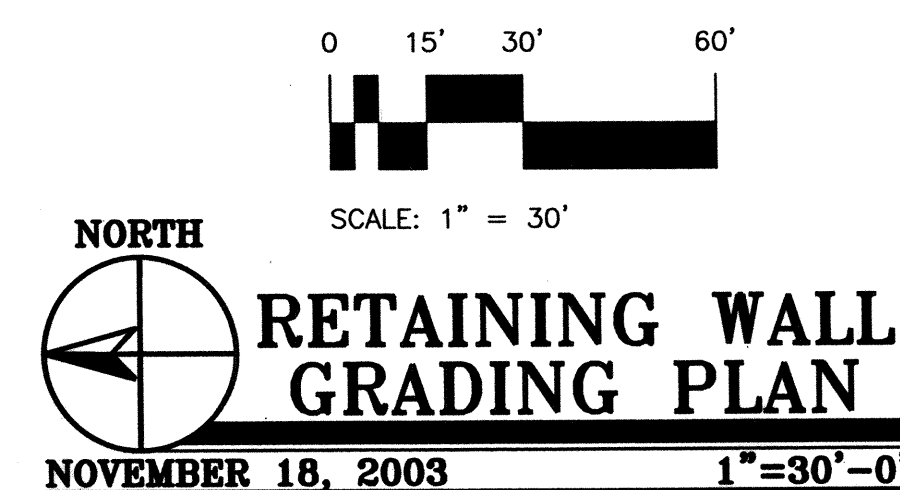
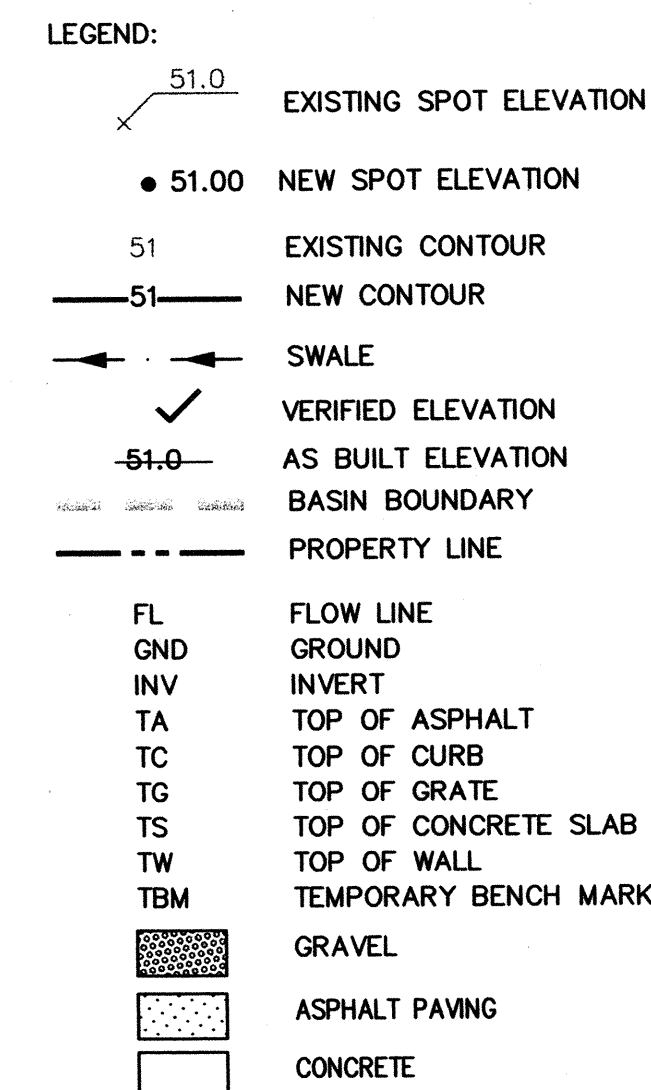


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| City Project No. | 7006.91 | Zone Map No. | G-15 | Sheet | C-1 | Of | 18 20 |
|------------------|---------|--------------|------|-------|-----|----|-------|

| SURVEY INFORMATION |    |      | BENCH MARK                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | AS BUILT INFORMATION   |       |
|--------------------|----|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|-------|
| FIELD NOTES        |    |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | CONTRACTOR             | DATE: |
| NO.                | BY | DATE |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | WORK STOPPED BY        | DATE: |
|                    |    |      | Station is located 3 miles north of downtown Albuquerque at the intersection of Second Street and Mescalero Road. N.W. To reach the station from the intersection of Central Ave. and second Street, go north on Second St., 2.8 miles to the station in the center of the median strip of Second St. Station mark is stamped NMSHC brass tablet, stamped "STA.NM47-10", set in top of concrete post projecting 0.1 ft above the ground. ELEV=4967.496 |  | DRAWING CORRECTED BY   | DATE: |
|                    |    |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | MICRO-FILM INFORMATION |       |
|                    |    |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | RECORDED BY            | DATE: |
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| PROGRAM    |              |          |             |
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| DEPARTMENT |              |          |             |
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| ERNATE 71  |              |          |             |
|            | MO./DAY/YR.  |          | MO./DAY/YR. |
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| D.         | Sheet<br>C-1 | Of<br>18 | 20          |



CLAUDIO VIGIL ARCHITECTS

1801 Rio Grande NW, #2, Albuquerque, NM 87104  
Phone: 505/842-1113 Fax: 505/842-1330

|                                                                                              |                                                                                                  |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| CITY OF ALBUQUERQUE<br>CAPITAL IMPLEMENTATION PROGRAM<br>ENGINEERING & ARCHITECTURAL SECTION |                                                                                                  |
| TITLE:                                                                                       | SOLID WASTE MANAGEMENT DEPARTMENT<br>4600 EDITH BOULEVARD, N.E.<br>RETAINING WALL - ALTERNATE 71 |

|                                                     |                                                                     |
|-----------------------------------------------------|---------------------------------------------------------------------|
| Design Review Committee<br>APPROVED<br>MAY - 4 2004 | City Engineer Approval<br>APPROVED<br>MAY - 4 2004<br>CITY ENGINEER |
|-----------------------------------------------------|---------------------------------------------------------------------|

|                             |  |              |  |       |  |       |  |
|-----------------------------|--|--------------|--|-------|--|-------|--|
| DESIGN<br>REVIEW COMMITTEE  |  | Zone Map No. |  | Sheet |  | Of    |  |
| City Project No.<br>7006.91 |  | G-15         |  | C-2   |  | 19 20 |  |

| BENCH MARK                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | AS BUILT INFORMATION   |                |                       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|----------------|-----------------------|-------|
| Station is located 3 miles north of downtown Albuquerque at the intersection of Second Street and Mesalero Road. N.W. To reach the station from the intersection of Central Ave. and second Street, go north on Second St., 2.8 miles to the station in the center of the median strip of Second St. Station mark is stamped NMSHC brass tablet, stamped "STA.NM47-10", set in top of concrete post projecting 0.1 ft above the ground. ELEV=4967.496 |  | CONTRACTOR             | WORK STAKED BY | INSPECTOR'S APPROVAL  | DATE: |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                        |                | FIELD VERIFICATION BY | DATE: |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                        |                | DRAWING CORRECTED BY  | DATE: |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | MICRO-FILM INFORMATION |                |                       |       |
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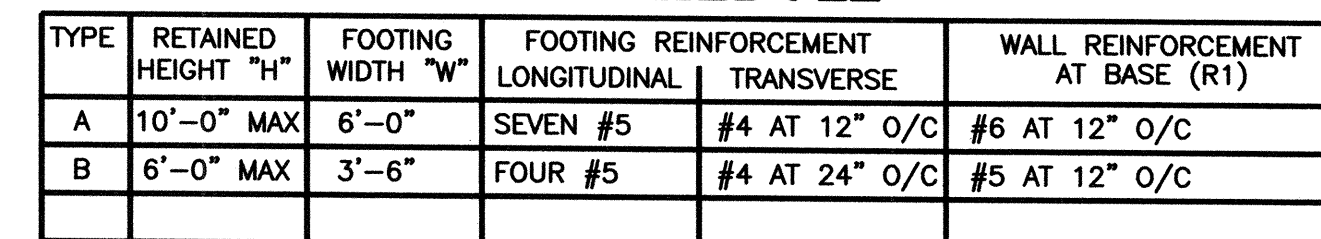
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## GENERAL NOTES - EARTHWORK

1. GENERAL FOOTING SHALL BE PLACED ON PREPARED SUBGRADE. REQUIREMENTS FOR EARTHWORK, INCLUDING EXCAVATION, FILL, AND BACKFILL SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE 1997 UBC.
2. SITE CLEARING: ALL VEGETATION AND OTHER ORGANIC MATTER, PAVEMENT, EXISTING CONSTRUCTION AND MAN-MADE FILL (EXCEPT AS OTHERWISE NOTED), AND ANY OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
3. EXCAVATION AND PROTECTION OF EXCAVATION: REMOVE THE TOP 12 INCHES OF EXISTING MATERIAL, OR AS NECESSARY TO PERMIT THE PLACING OF FILL MATERIAL OF THE REQUIRED MINIMUM THICKNESS, WHICHEVER IS THE GREATER DEPTH. SEE DETAIL 1 SHEET C-3 FOR EXTENT OF EXCAVATION, FILL, AND BACKFILL. DO NOT UNDERCUT EXISTING CONSTRUCTION. PROVIDE POSITIVE DRAINAGE AWAY FROM EXCAVATIONS AND PROMPTLY REMOVE ANY SURFACE WATER WHICH MAY ENTER THE EXCAVATIONS. REMOVE ANY SUBGRADE MATERIAL AND ANY PREVIOUSLY PLACED FILL OR BACKFILL ON SLOPE SIDES OF EXCAVATIONS AS REQUIRED FOR SLOPE STABILITY AND PROVIDE BARRICADES, LIGHTS, AND WARNING SIGNS AS NECESSARY FOR THE PROTECTION OF EXISTING PROPERTY, CONSTRUCTION, PERSONNEL, AND THE PUBLIC.
4. PREPARATION OF SUBGRADE: AFTER EXCAVATIONS HAVE BEEN COMPLETED AND/OR SURFACE HAS BEEN CLEANED AND GRUBBED, THE SURFACE SHALL BE SCARIFIED, DISCED, OR OTHERWISE LOOSENED TO A MINIMUM DEPTH OF 8 INCHES, MOISTENED OR DRIED AS NECESSARY TO WITHIN  $\pm 2\%$  OF OPTIMUM MOISTURE CONTENT, AND COMPACTED TO NOT LESS THAN 95% (PER ASTM D1557) OF MAXIMUM DENSITY.
5. FILL AND BACKFILL: ALL FILL MATERIALS SHALL BE CLEAN, SATISFACTORY MATERIALS, AND IS TO BE APPROVED BY THE ARCHITECT/ENGINEER BEFORE USE. SITE MATERIALS MAY BE USED IF THEY HAVE THE REQUIRED PROPERTIES; OTHERWISE IMPORTED MATERIALS OR A COMBINATION OF SITE MATERIALS AND IMPORTED MATERIALS HAVING THE REQUIRED PROPERTIES SHALL BE USED.
6. PLACEMENT AND COMPACTION OF FILL AND BACK FILL. FILL AND BACK FILL SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED 8 INCHES. COMPACTION SHALL BE PERFORMED USING APPROPRIATE EQUIPMENT AS REQUIRED TO ACHIEVE THE SPECIFIED DENSITIES WITH OUT DAMAGE TO THE EXISTING CONSTRUCTION. DENSITIES, EXPRESSED AS MAXIMUM DENSITIES, AS SHOWN IN THE EARTHWORK SCHEMATIC BELOW. PERCENTAGES ARE AS DETERMINED BY ASTM D-1557
7. MATERIAL LARGER THAN 6 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL, OR BACK FILL. MATERIAL LARGER THAN 4" SHALL NOT BE PLACED WITHIN 12 INCHES OF THE BEARING SURFACES OF THE SLAB OR FOUNDATIONS. NO BRUSH, SOD, FROZEN MATERIAL, OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL, OR BACK FILL.

1. GENERAL: TESTING SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE BY AN INDEPENDENT TESTING LABORATORY SELECTED BY THE OWNER SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
2. EARTH WORK: PERFORM APPROPRIATE AND SPECIFIED TESTS AS NECESSARY TO INSURE THAT THE SOIL MATERIAL PROPOSED FOR USE ON THIS PROJECT MEETS THE SPECIFIED REQUIREMENTS.
  - a) DETERMINE IN-PLACE DENSITIES BY EITHER THE SAND CONE METHOD (ASTM D 1556) OR THE NUCLEAR METHOD (ASTM D2992)
  - b) PROVIDE A MINIMUM OF TWO TEST FOR EACH 3,000 SQUARE FEET OR AREA OR FRACTION THEREOF, AND FOR EACH COMPACTED LAYER OF FILL, AND BACK FILL, MATERIAL.
  - c) IF TEST RESULTS INDICATE COMPACTION LESS THAN THAT REQUIRED, RECOMPACT AND RETEST UNTIL REQUIREMENTS ARE MET. COST OF RECOMPACTING AND RETESTING ARE THE CONTRACTOR'S EXPENSE.
2. CONCRETE: PERFORM APPROPRIATE AND SPECIFIED TESTS AS NECESSARY TO INSURE THAT THE CONCRETE MATERIALS PROPOSED FOR USE ON THIS PROJECT MEETS THE SPECIFIED REQUIREMENTS.
  - a) SLUMP TEST: ONE TEST FOR EACH CONCRETE LOAD AT POINT OF DISCHARGE, AND ONE TEST FOR EACH SET OF COMPRESSION TEST SPECIMENS. IF WATER IS ADDED TO THE CONCRETE AT THE SITE, SLUMP TEST SHALL BE MADE AFTER THE WATER IS ADDED.
  - b) COMPRESSION STRENGTH TEST: STANDARD 6 INCHES DIAMETER, 12 INCHED LONG TEST SPECIMEN. ONE SET OF SIX SPECIMENS SHALL BE MADE OF EACH 50 CUBIC YARDS OF CONCRETE OR FRACTION THEREOF. FOR EACH CLASS OF CONCRETE PLACED IN ONE DAY AND/OR ONE SET PER EACH 5,000 SQUARE FEET OR LESS OF SLAB PLACED IN ONE DAY.



**BUILDING CODE:**  
NEW MEXICO UNIFORM BUILDING CODE 1997 EDITION

**FOUNDATION DESIGN FACTORS:**

|                        |          |
|------------------------|----------|
| BEARING PRESSURE       | 1500 PSF |
| ACTIVE EARTH PRESSURE  | 35 PCF   |
| PASSIVE EARTH PRESSURE | 250 PCF  |
| COEFFICIENT OF SLIDING | 0.35     |

CONCRETE:  
COMPRESSIVE STRENGTH (STANDARD CYLINDER TEST AT 28 DAYS)  
USAGE:  
CONCRETE EXPOSED TO WEATHER AND FOOTING  
CEMENT: ASTM C150 TYPE I/II f'c = 3,500 PSI  
AGGREGATES: ASTM C33 (AIR ENTRAINED)  
NOMINAL WEIGHT 145 PCF  
REINFORCEMENT:  
BARS: ASTM A615, DEFORMED GRADE 40 FOR STIRRUPS, TIES, AND #3 BARS  
GRADE 60 FOR ALL OTHER USES.



## NOVEMBER 18, 2003 1/2"=1'-0"



1801 Rio Grande NW, #2, Albuquerque, NM 87104  
Phone: 505/842-1113 Fax: 505/842-1330

CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM  
ENGINEERING & ARCHITECTURAL SECTION

**TITLE: SOLID WASTE MANAGEMENT DEPARTMENT  
4600 EDITH BOULEVARD, N.E.  
RETAINING WALL - ALTERNATE 71**

| Design Review Committee                            |                         | City Engineer Approval |                     |                    | MO / DAY / YR. | MO / DAY / YR. |
|----------------------------------------------------|-------------------------|------------------------|---------------------|--------------------|----------------|----------------|
| <b>A<br/>P<br/>P<br/>R<br/>O<br/>V<br/>E<br/>D</b> | <b>MAY - 4 2004</b>     | <b>CITY ENGINEER</b>   | <b>MAY - 4 2004</b> |                    |                |                |
|                                                    | DESIGN REVIEW COMMITTEE |                        |                     |                    |                |                |
|                                                    |                         |                        |                     |                    |                |                |
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|                                                    |                         |                        |                     | Last Design Update |                |                |

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|------------------|--------------|-------|-------|
| City Project No. | Zone Map No. | Sheet | Of    |
| 7006.91          | G-15         | C-3   | 20 20 |