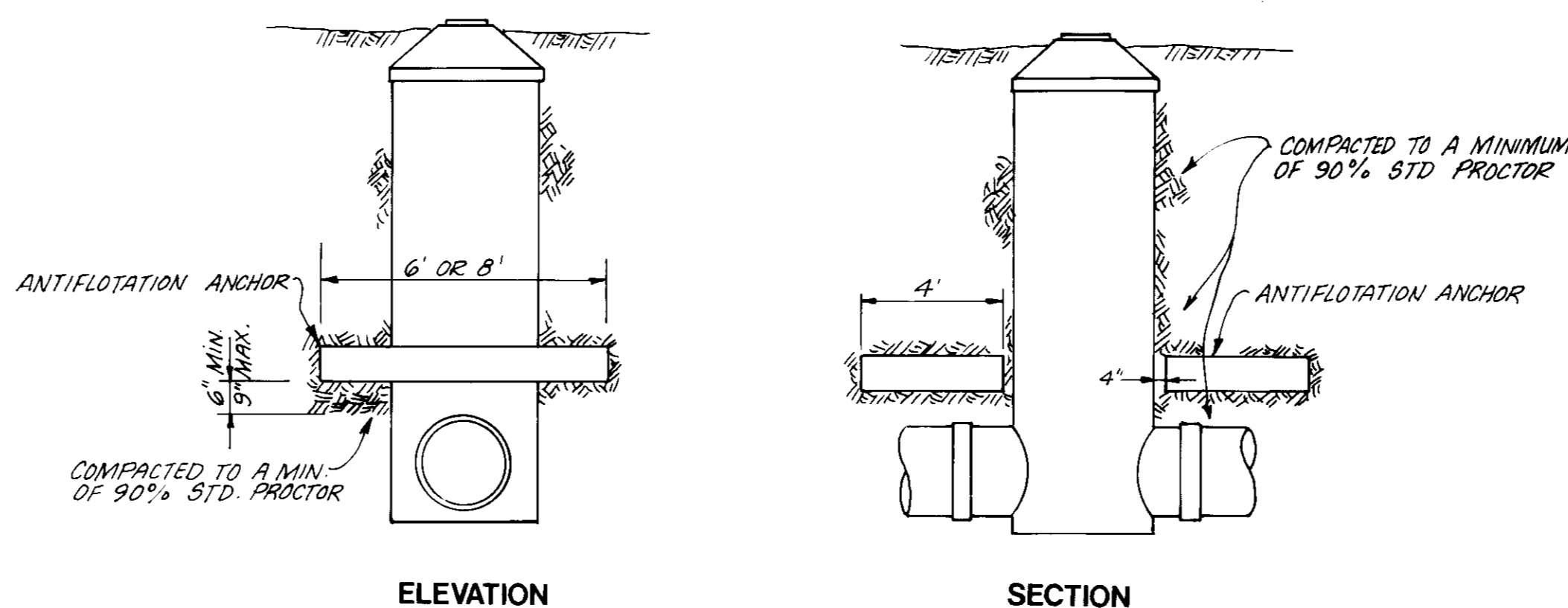
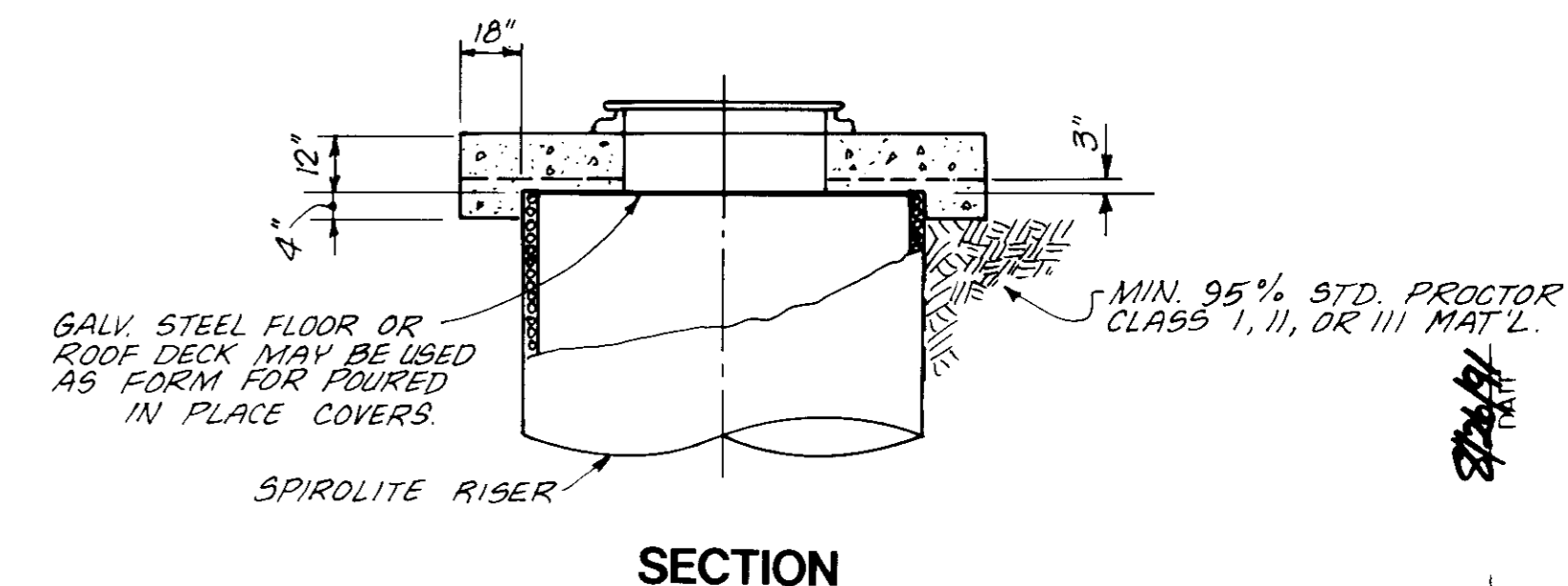


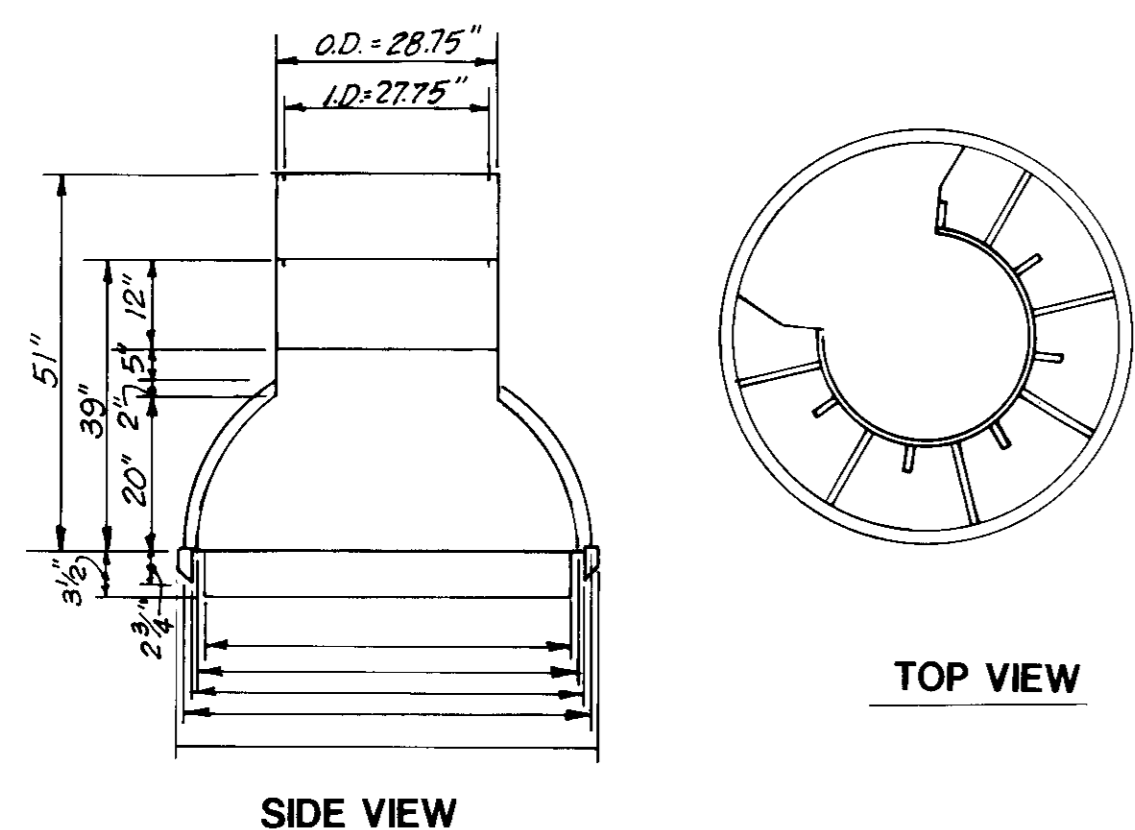
ADS MANHOLE WITH 24" CAST COVER



ANTI-FLOTATION ANCHOR INSTALLATION

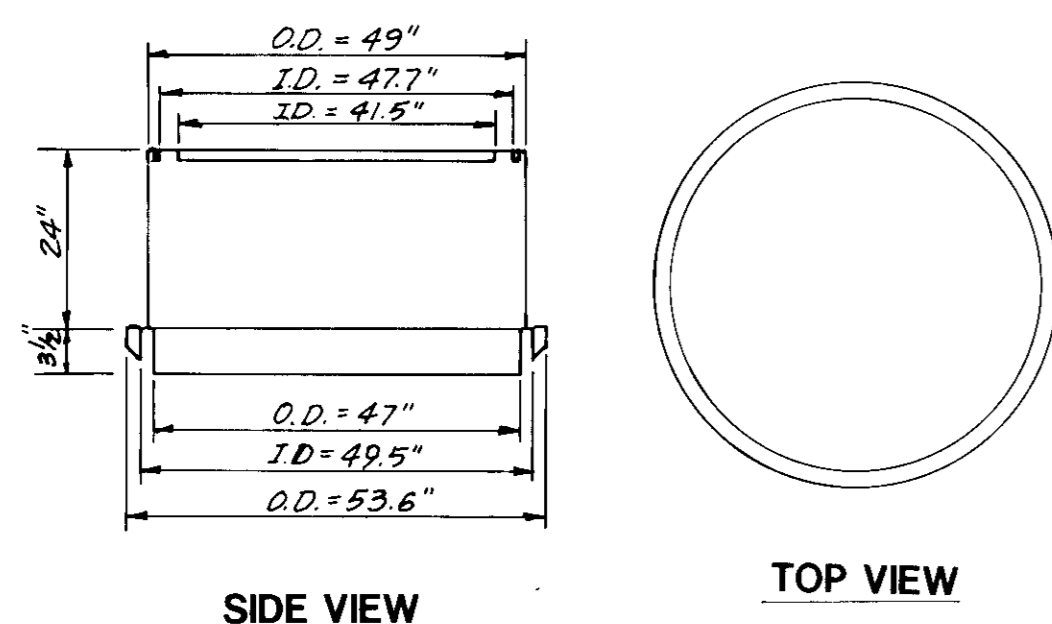


SECTION



SIDE VIEW

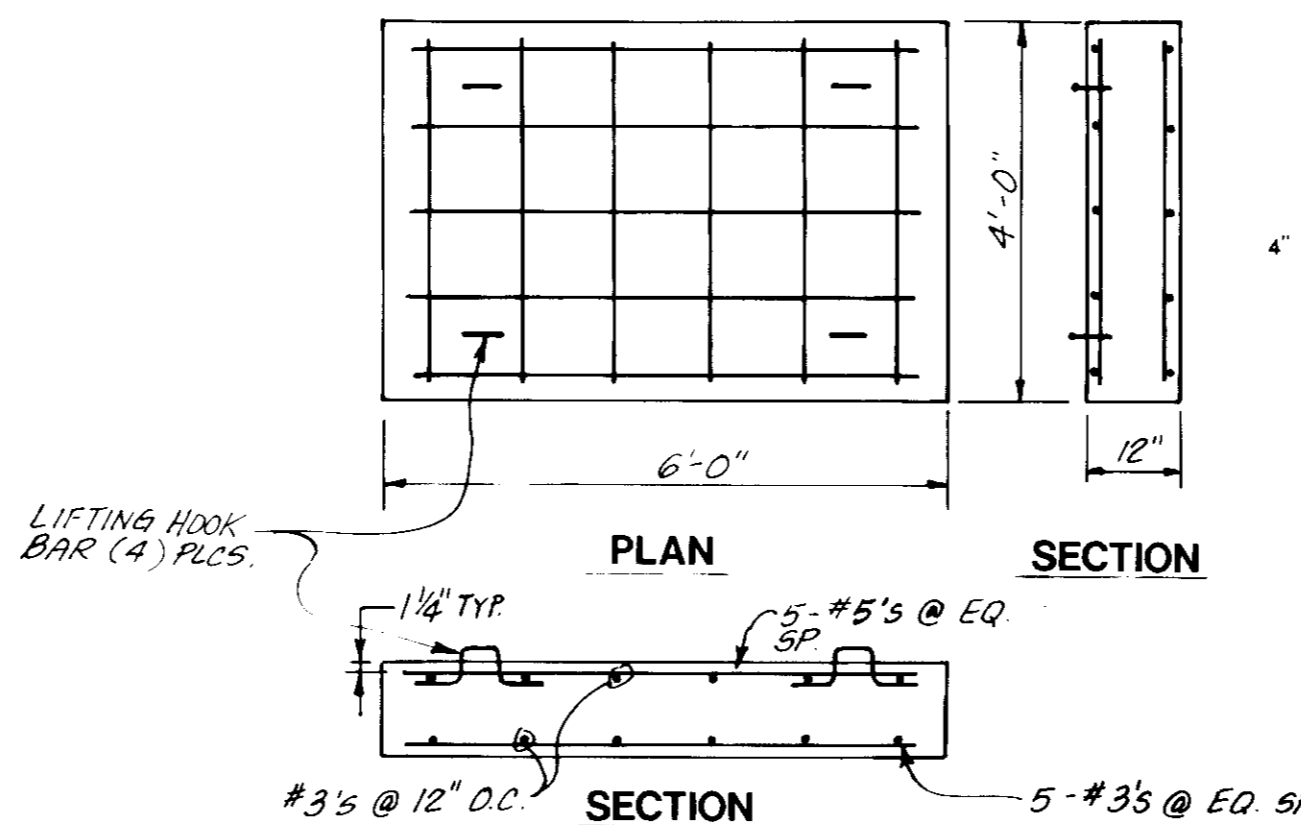
TOP VIEW



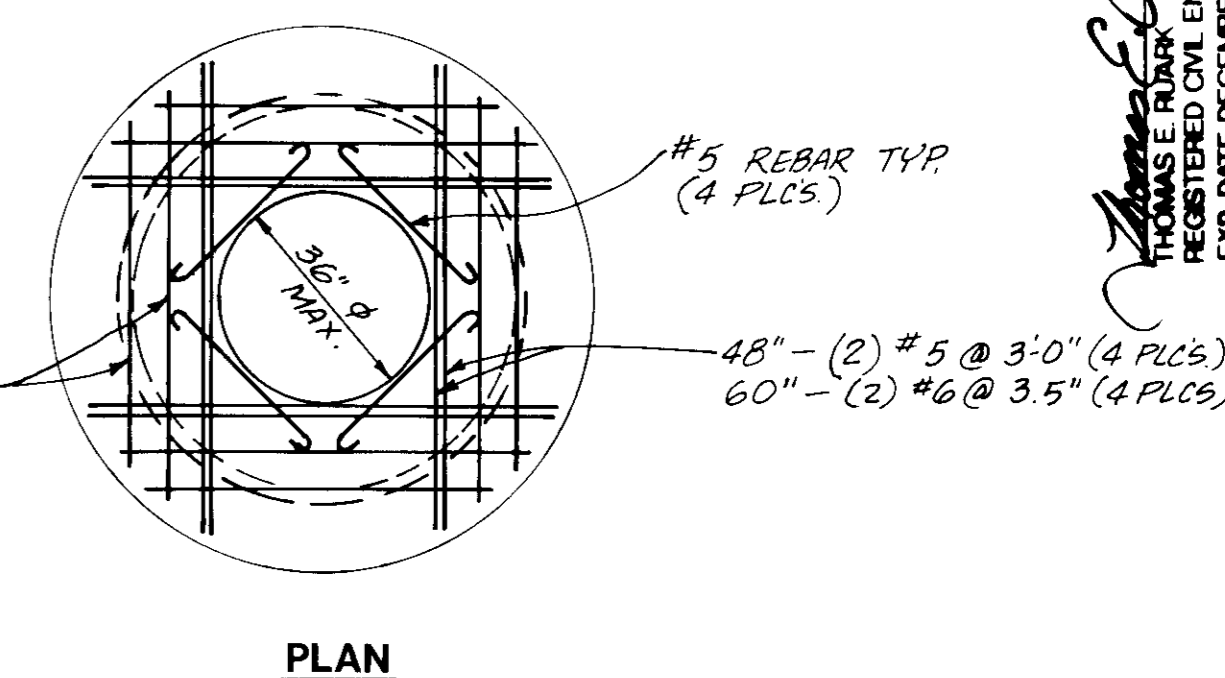
SIDE VIEW

TOP VIEW

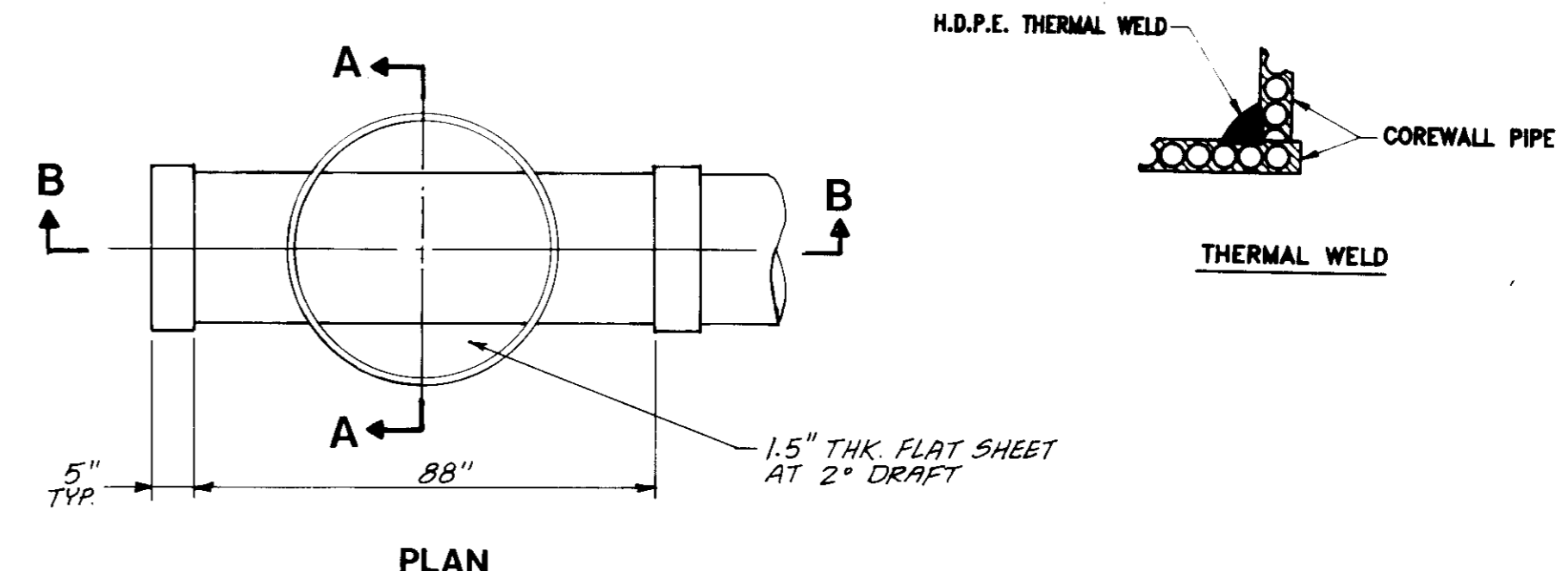
ADS SANITARY SEWER MANHOLE UPPER UNITS



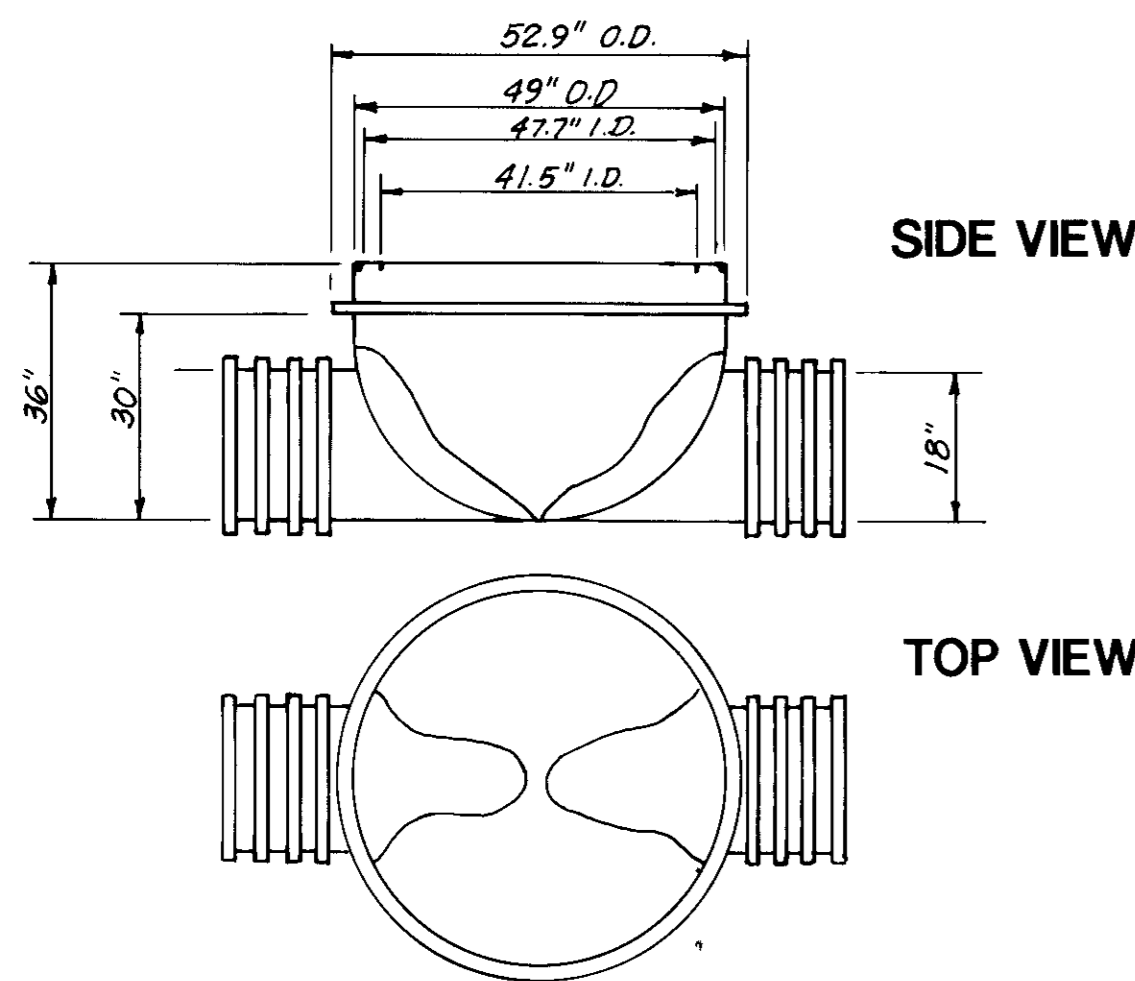
ANTI-FLOTATION ANCHOR



CONCENTRIC H-20 MANHOLE CAP FOR 48" & 60" RISER



PLAN

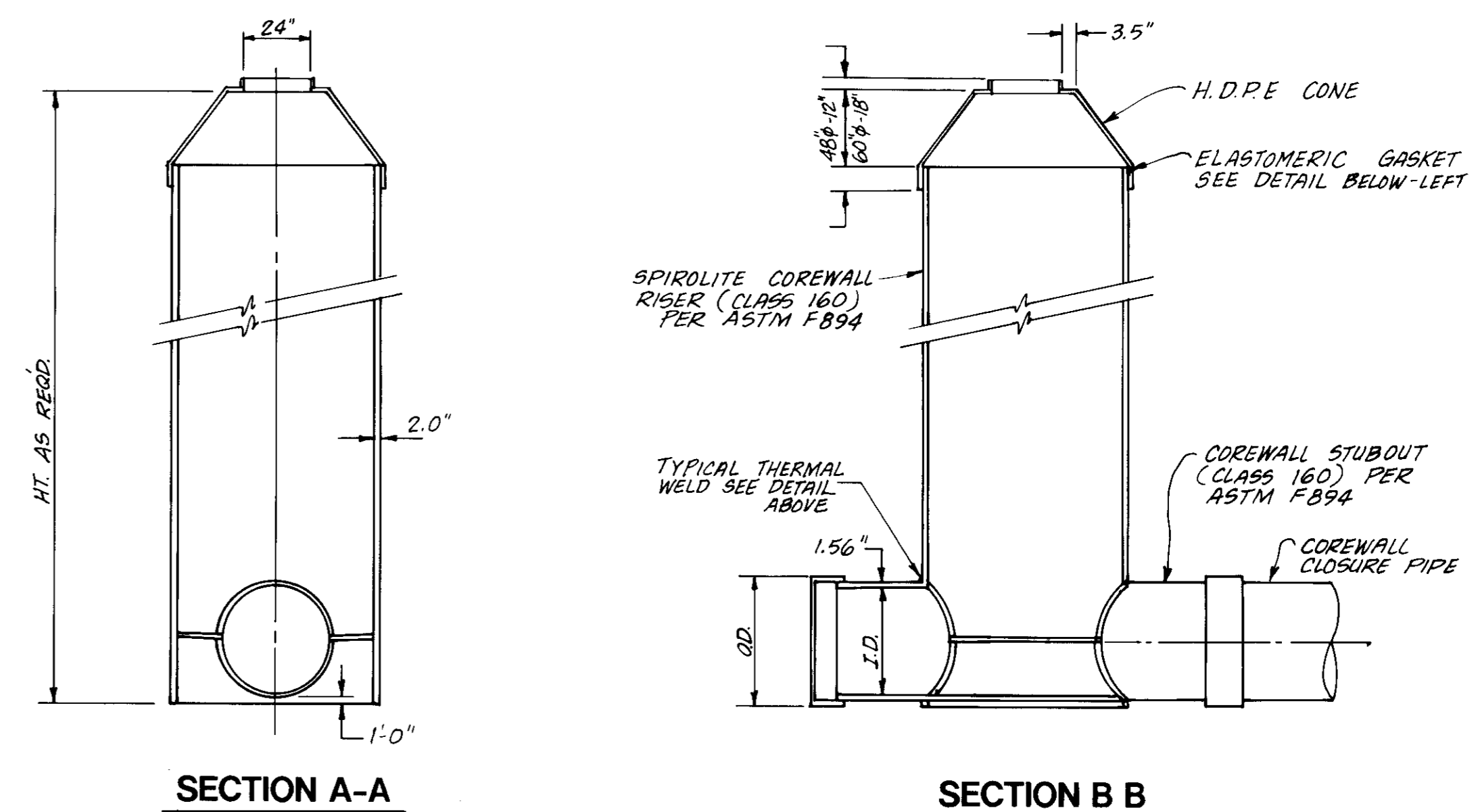
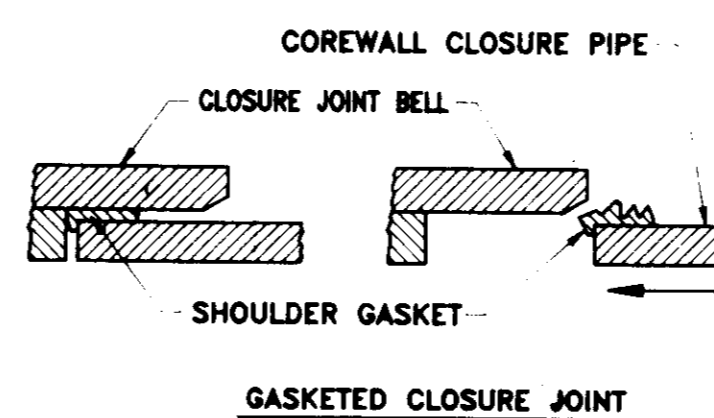


ADS SANITARY SEWER MANHOLE BASE

NO SCALE

**DROP MANHOLES:**

FOR DROP MANHOLES SPIROLITE & ADS MANHOLES SHALL HAVE DROP PIPE ADDED TO THE INSIDE OF THE MANHOLE AS SHOWN ON DROP MANHOLE DETAIL ON SHEET 3. THERMAL WELD SHALL BE USED TO ATTACH DROP PIPE TO WALL OF MANHOLE.

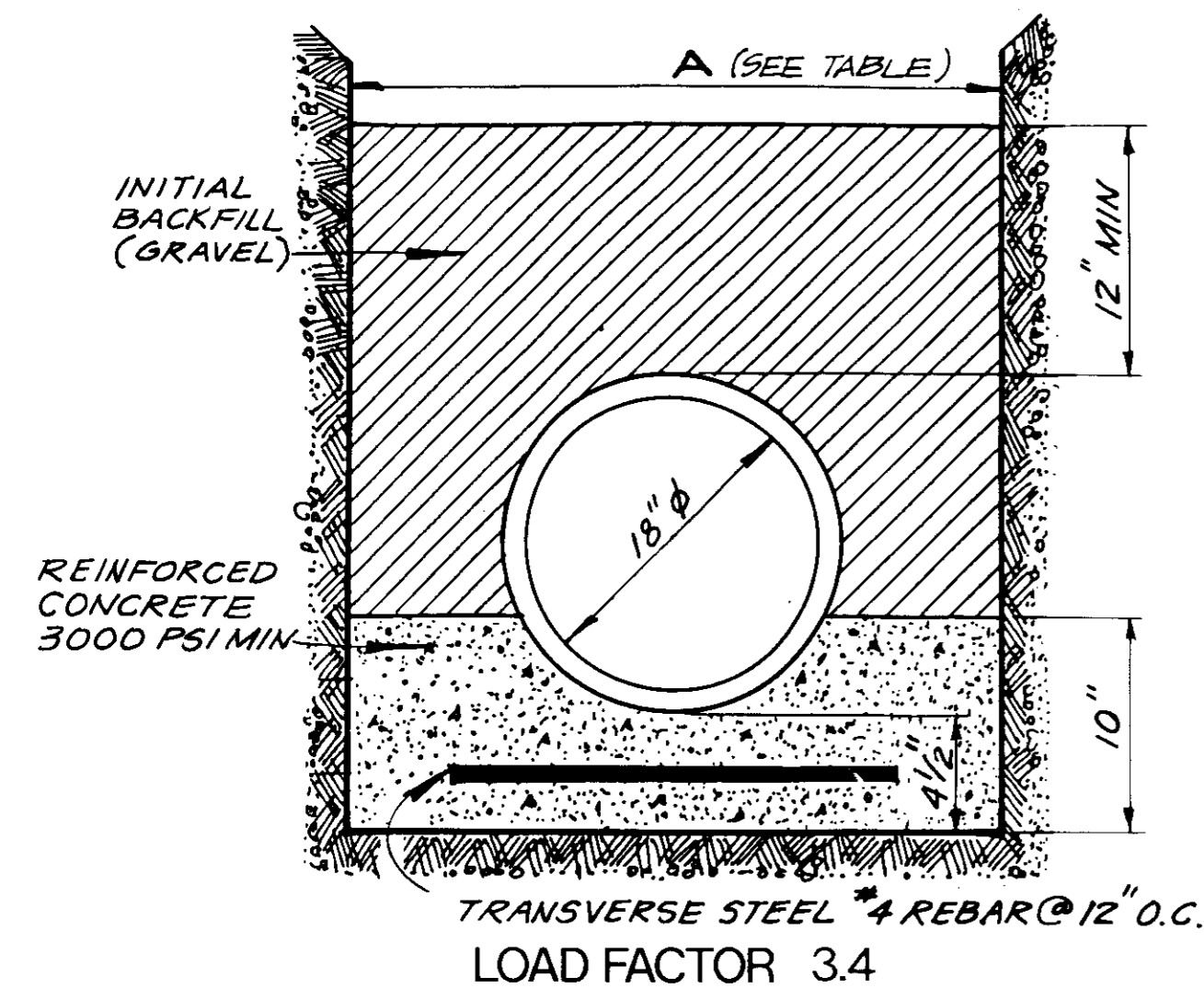


NO SCALE SPIROLITE SANITARY SEWER MANHOLE

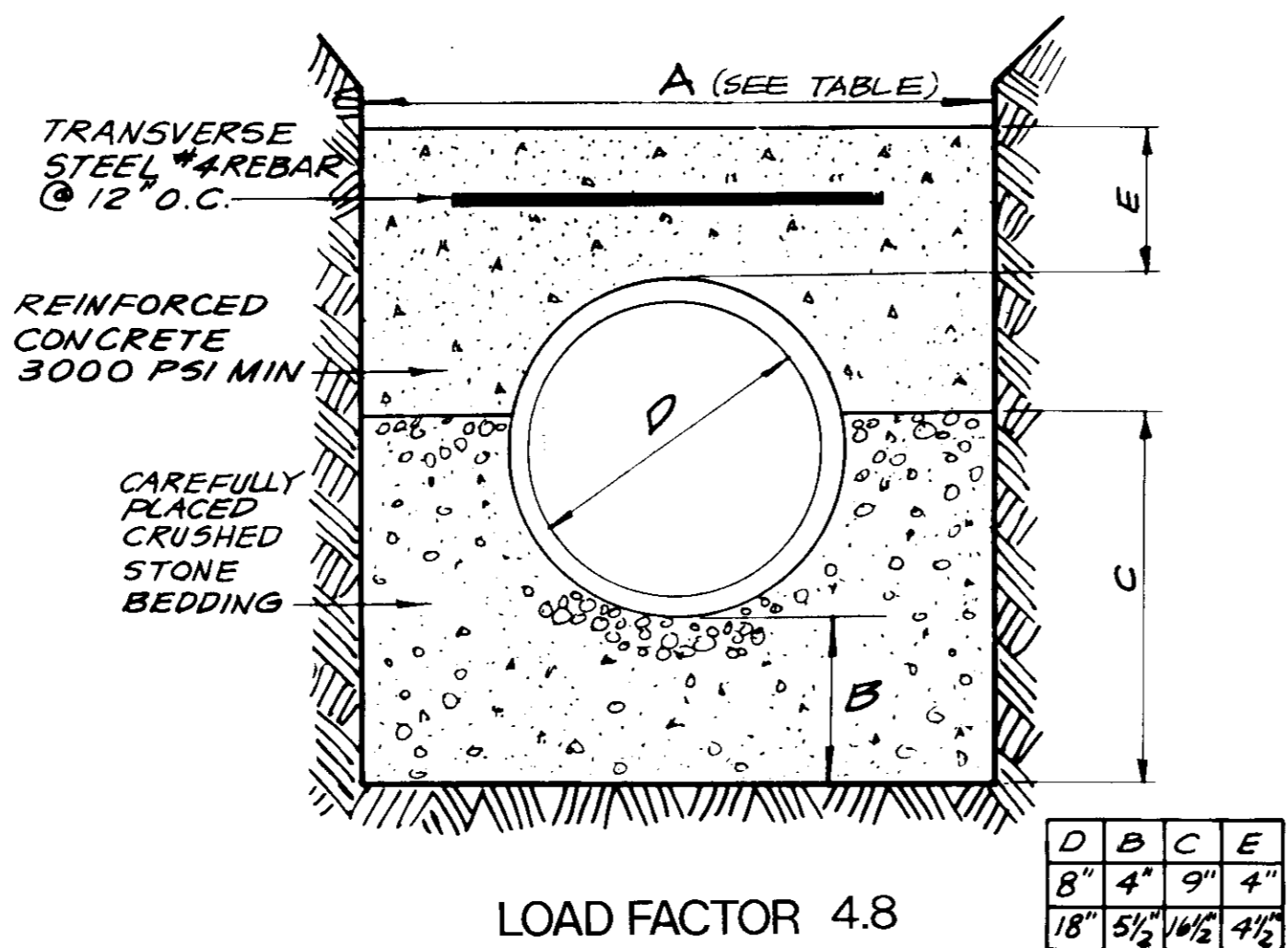
NO SCALE

SU 2523

DATE	BY	CHK'D	SCALE	NO.	REVISIONS
07/17/14	AK	AK	AS SHOWN	1	ADDENDUM 1 - SPECIFICATIONS
07/17/14	AK	AK	AS SHOWN	2	ADDENDUM 2 - ADDED SHEET
07/17/14	AK	AK	AS SHOWN	3	
07/17/14	AK	AK	AS SHOWN	4	
07/17/14	AK	AK	AS SHOWN	5	
07/17/14	AK	AK	AS SHOWN	6	
07/17/14	AK	AK	AS SHOWN	7	
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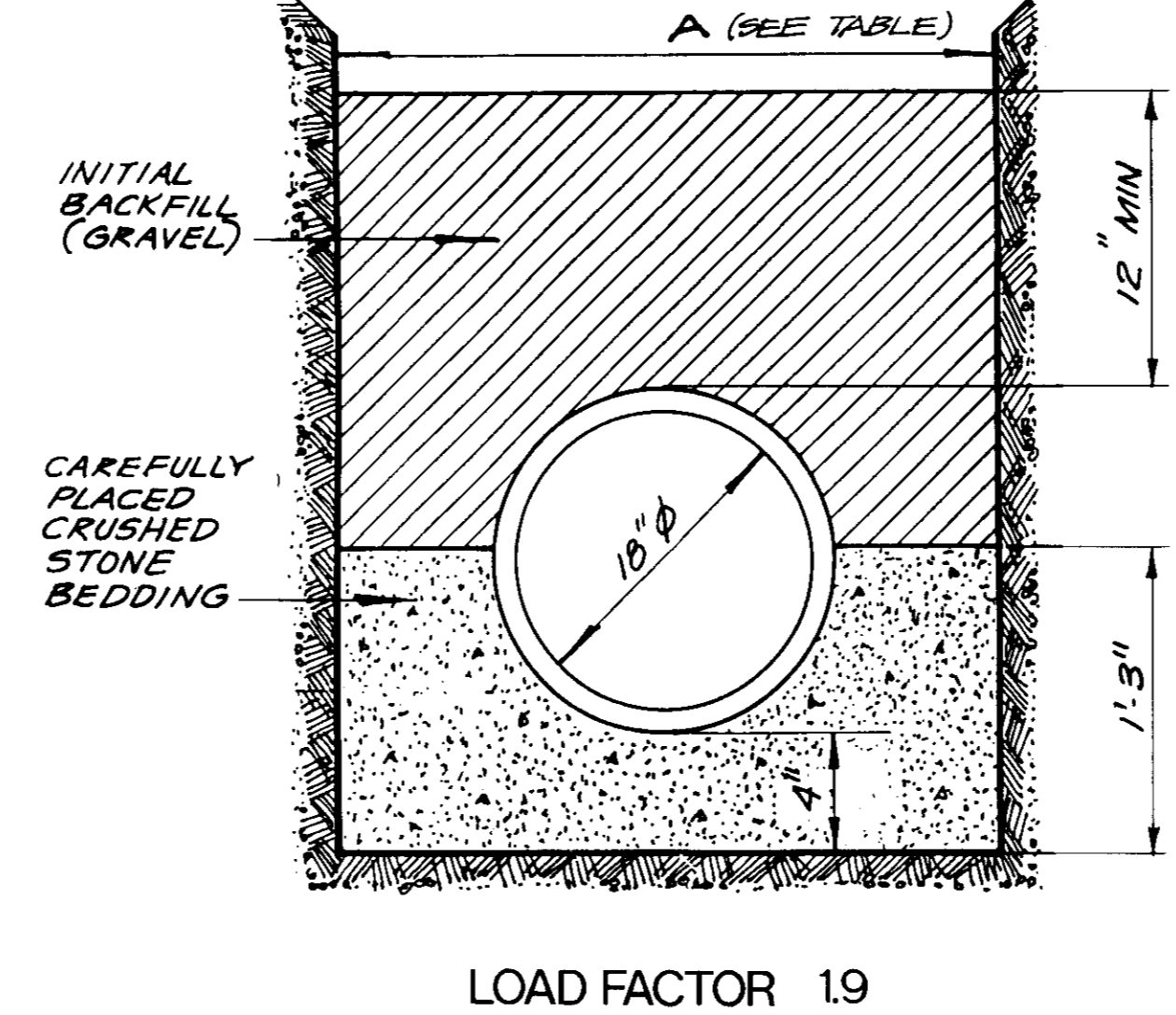


**CLASS "A-1" TRENCH FOR VCP** **1**  
NOT TO SCALE **10**

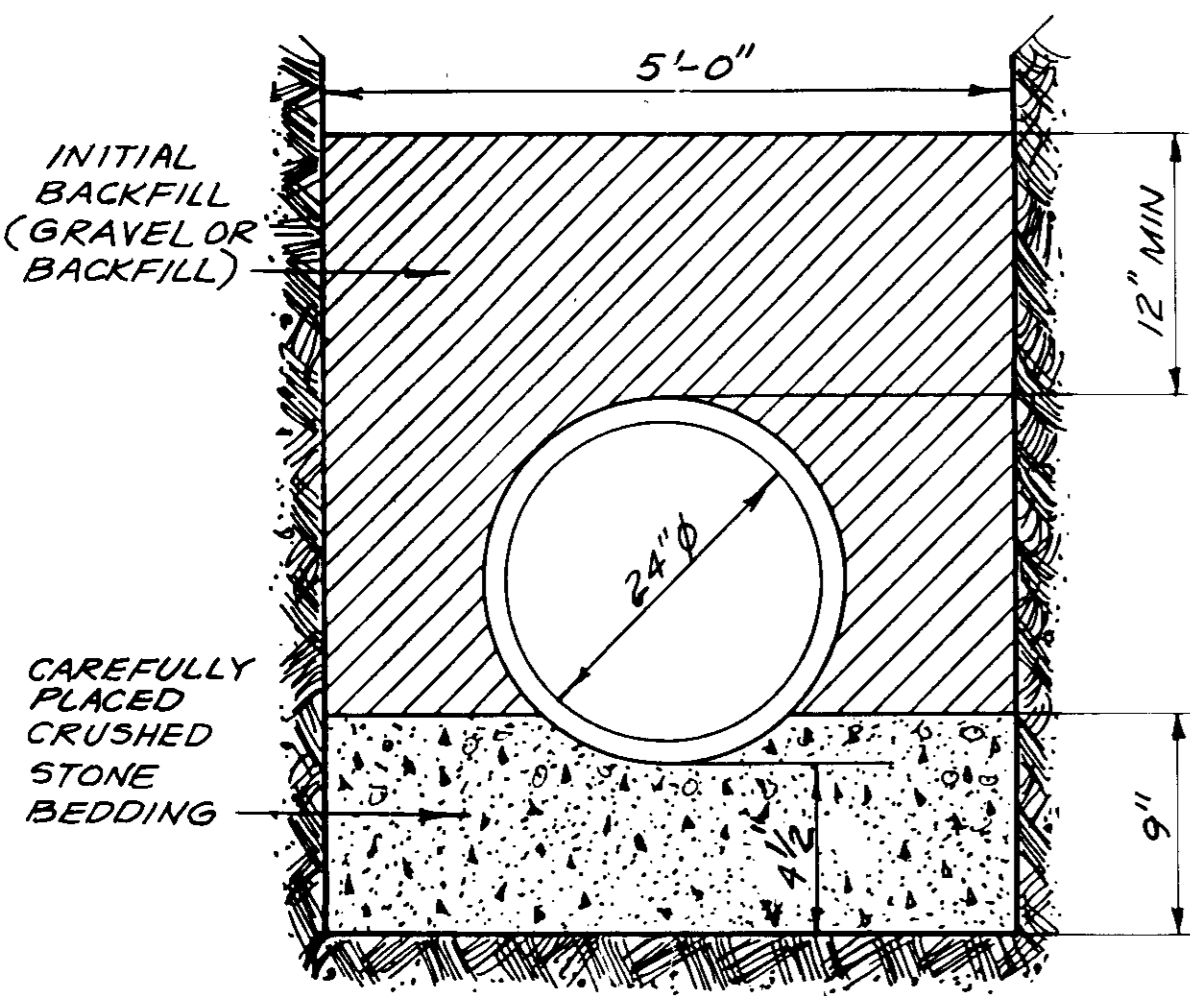


**CLASS "A-II" TRENCH FOR VCP** **2**  
NOT TO SCALE **10**

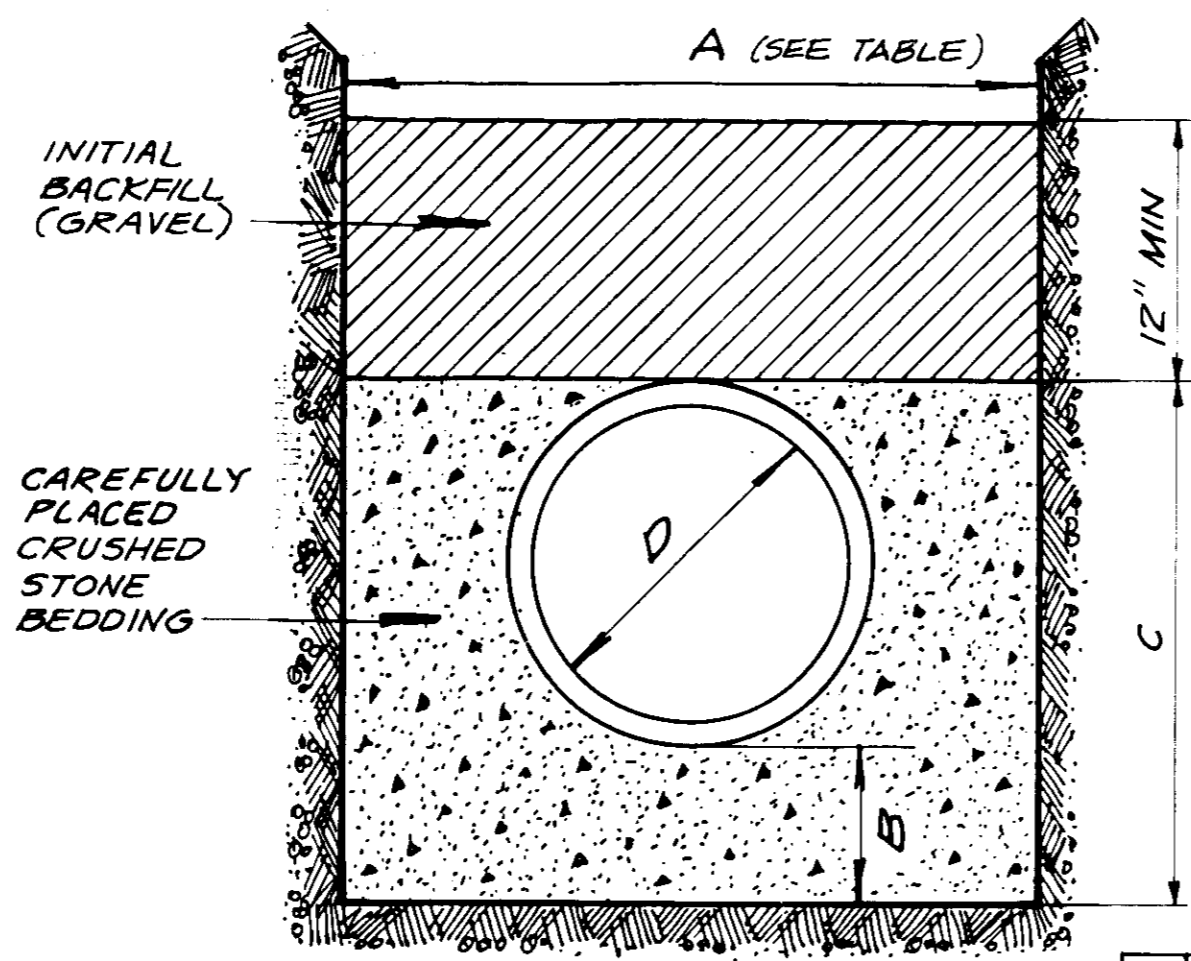
D	B	C	E
8"	4"	9"	4"
18"	5 1/2"	14 1/2"	4 1/2"



**CLASS "B" TRENCH FOR VCP** **3**  
NOT TO SCALE **10**

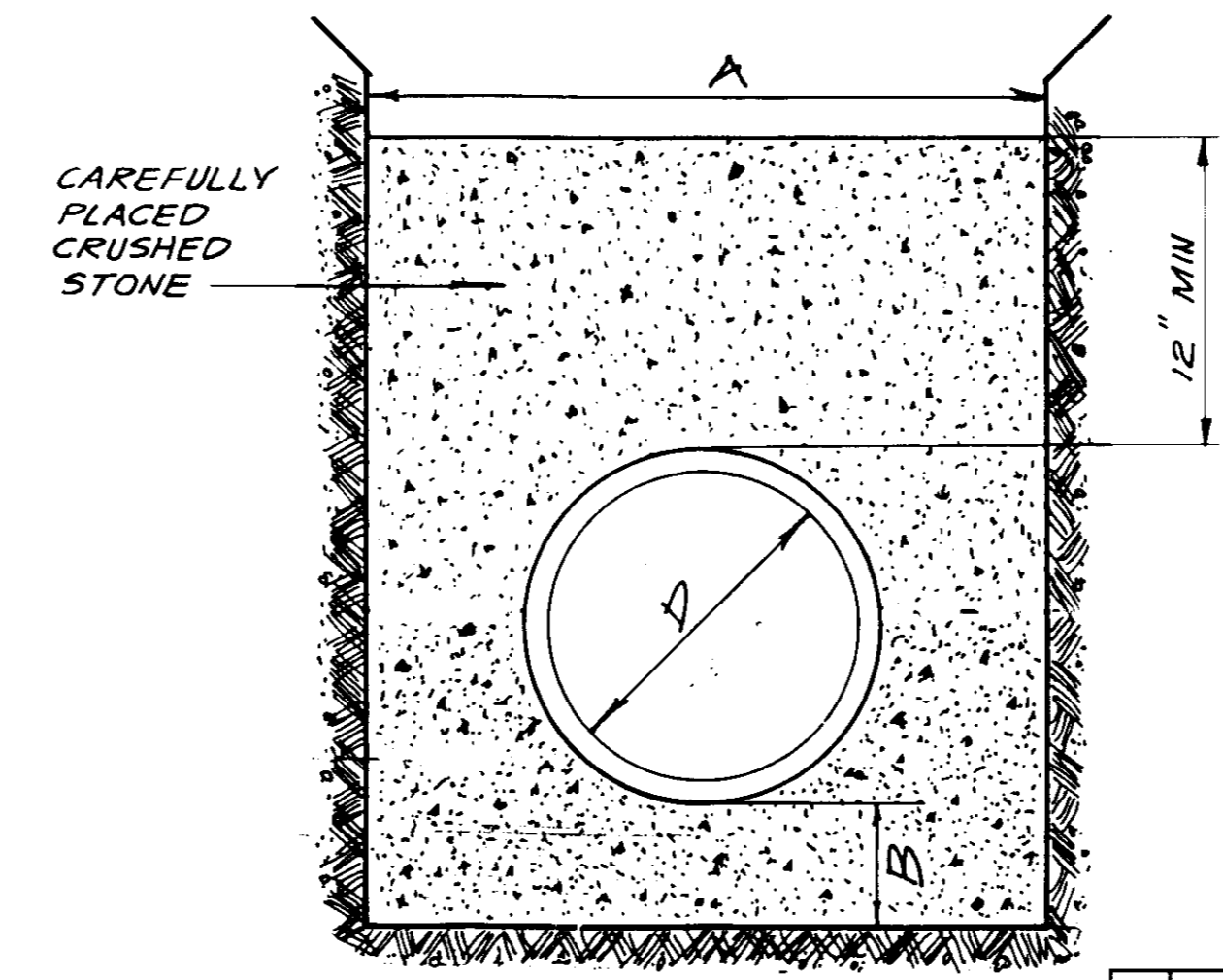


**TRENCH FOR DIP AND RCP** **4**  
NOT TO SCALE **10**



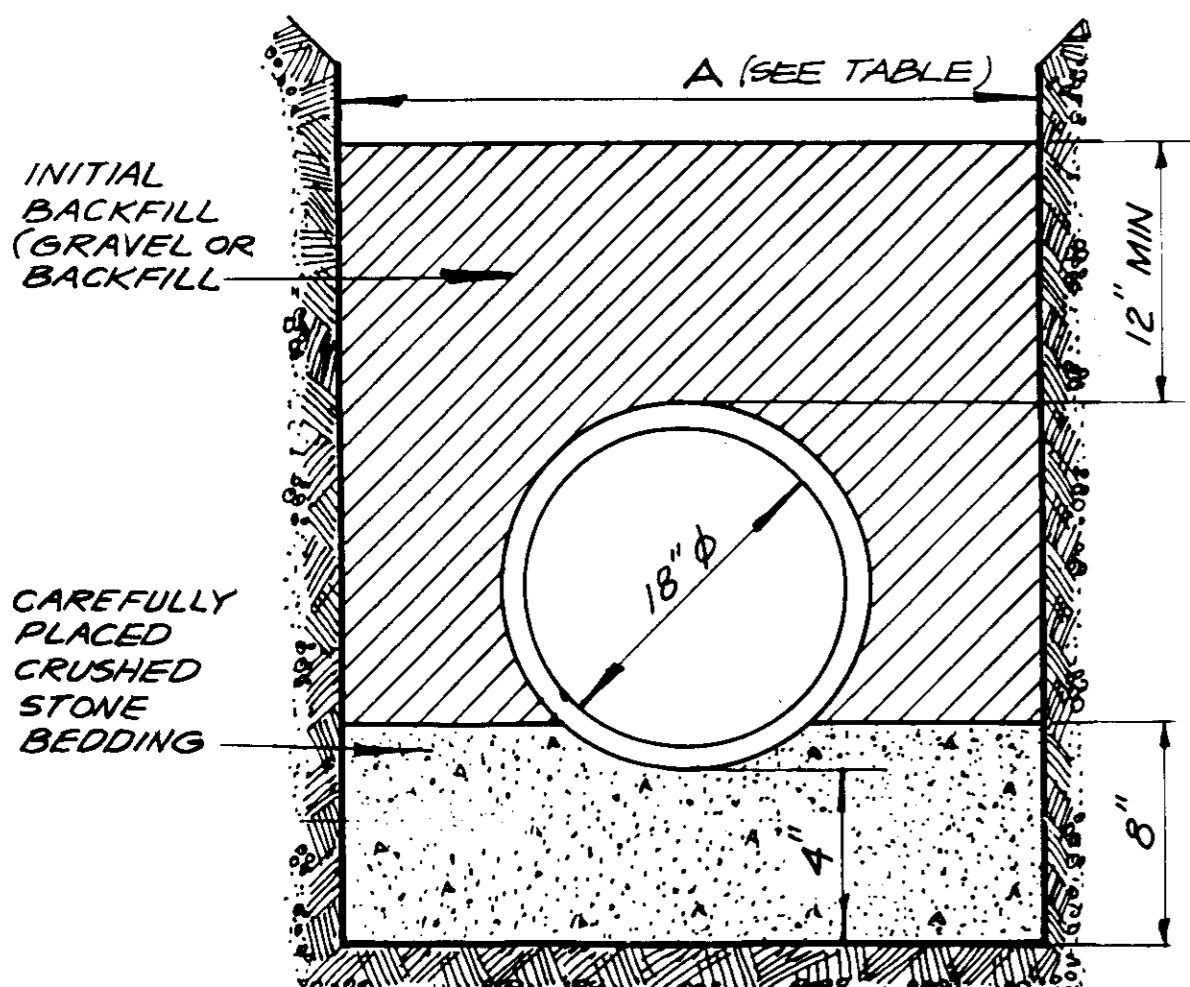
**CRUSHED STONE ENCASEMENT TRENCH FOR VCP** **5**  
NOT TO SCALE **10**

D	B	C
8"	4"	14"
18"	4"	26"

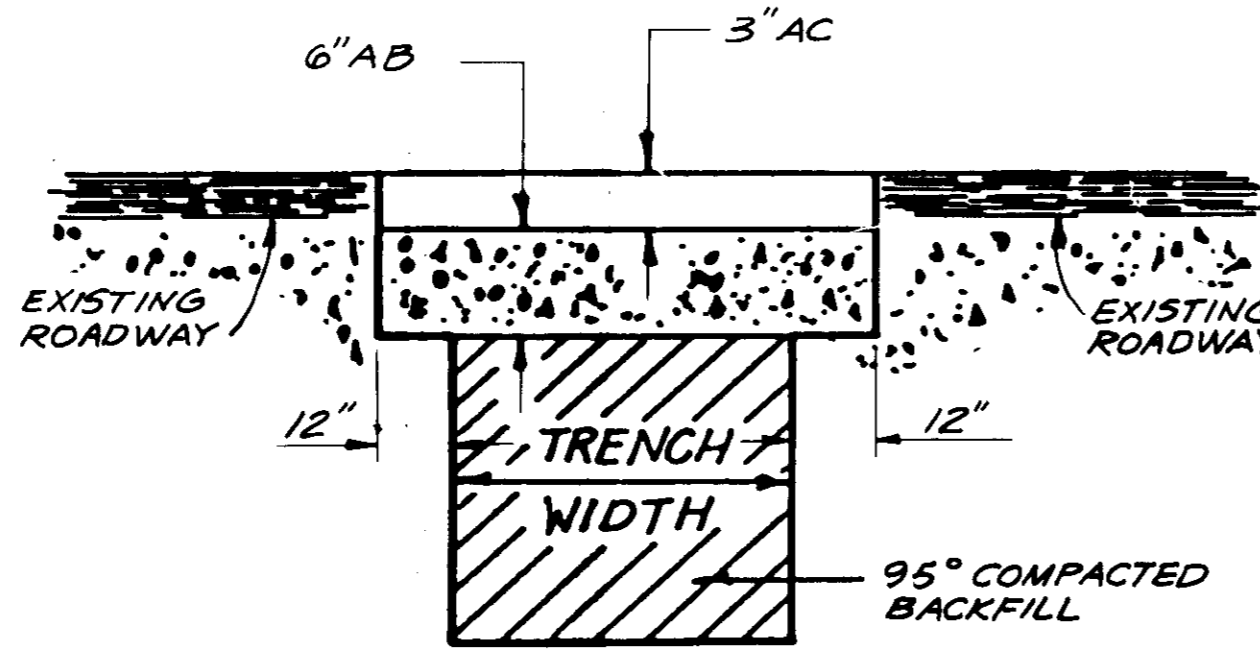


**TRENCH FOR SPIROLITE HDPE** **6**  
NOT TO SCALE **10**

D	A	B	C
8"	48"	4"	8 1/2"
18"	72"	5"	14 1/2"



**CLASS "C" TRENCH FOR VCP** **7**  
NOT TO SCALE **10**



**PAVEMENT REPLACEMENT SECTION** **8**  
NOT TO SCALE **10**

STATIONS	OPTIONS	
	TRENCH	MAX. WIDTH (A)
STA. 344 + 65.57 to STA. 352 + 75.42, STA. 358 + 21.07 to STA. 359 + 01.65	Class "A-1" Crushed Stone	No Max 42"
STA. 359 + 01.65 to STA. 371 + 43.50	Class "B" Class "C"	No Max. 48"
STA. 371 + 43.50 to STA. 398 + 93.85	Class "B" Class "C"	No Max. No Max.
STA. 343 + 55.66 to STA. 344 + 65.57	Class "B" Class "C"	No Max 48"

THOMAS E. RUARK  
REGISTERED CIVIL ENGINEER NO. 39888  
EXP. DATE DECEMBER 31, 1993  
BISSELL & KARN, A GREINER ENGINEERING COMPANY  
DATE: 8/26/91

**Bissell & Karn** A GREINER ENGINEERING COMPANY  
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS  
5890 STONERIDGE DRIVE, PLEASANTON, CALIFORNIA 94588-2702 (415)463-0660

PATTERSON PASS BUSINESS CENTER  
SANITARY SEWER AND WATER SYSTEMS - PHASE I  
**TRENCH DETAILS**  
FOR: CITY OF TRACY SAN JOAQUIN COUNTY, CALIFORNIA

DATE	DATE	BY	SCALE	AS SHOWN
8/12/91	8/12/91	TC	AS SHOWN	
8/19/91	8/19/91			
8/21/91	8/21/91			

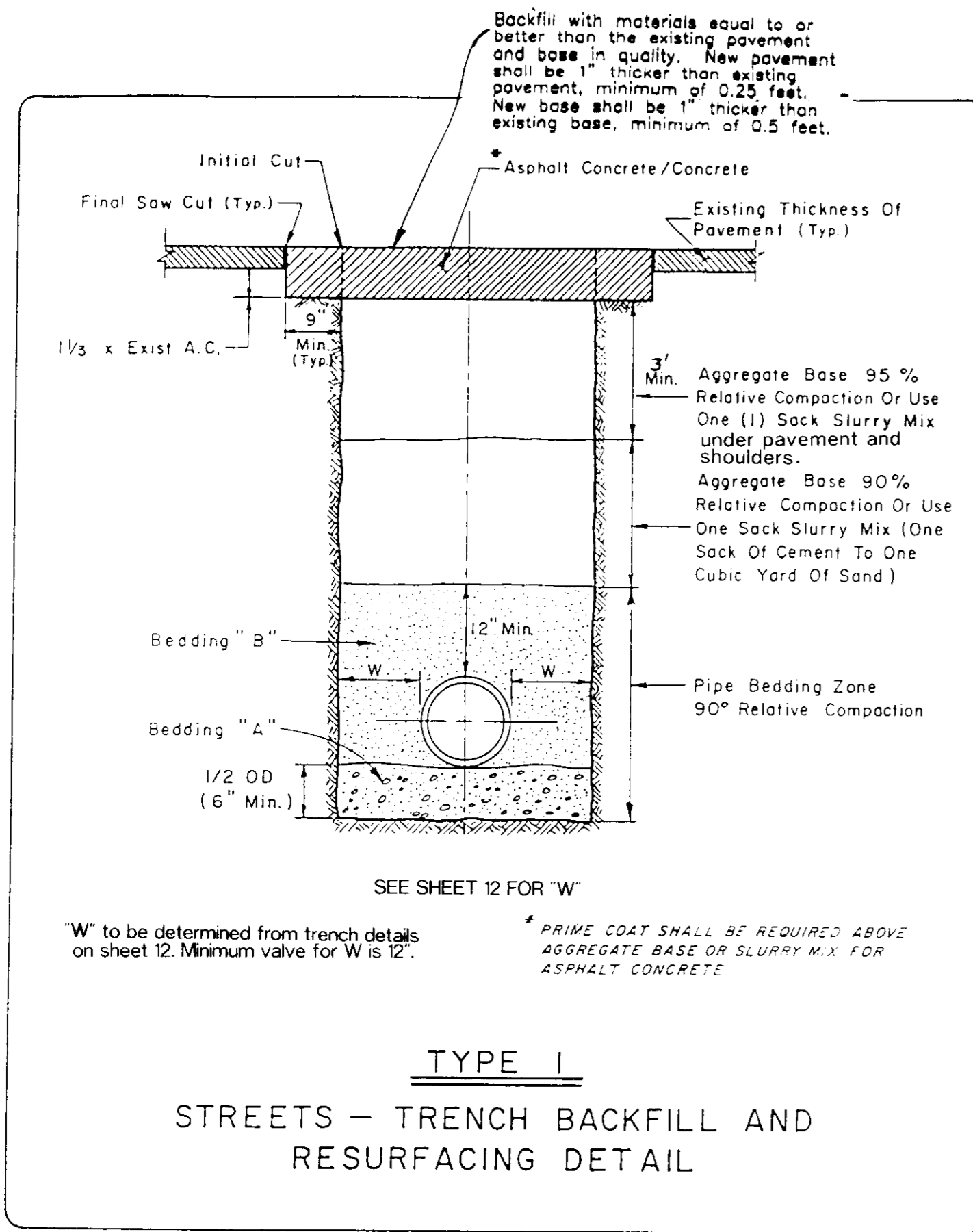
SCALE: AS SHOWN  
DATE: MAY 1991  
DRAWN: CATLETT  
CHECKED: [blank]  
PROJECT NO.: [blank]  
PROJECT: [blank]

REVISIONS: [blank]

BID SET  
APPENDIX 1 SPEC CHG ONLY  
APPENDIX 2 (NEW SHEET)

SHEET NO. 12 OF 13 SHEETS  
JOB NO. N0792.10  
FILE NO.

502524



**TYPE I**  
STREETS - TRENCH BACKFILL AND RESURFACING DETAIL

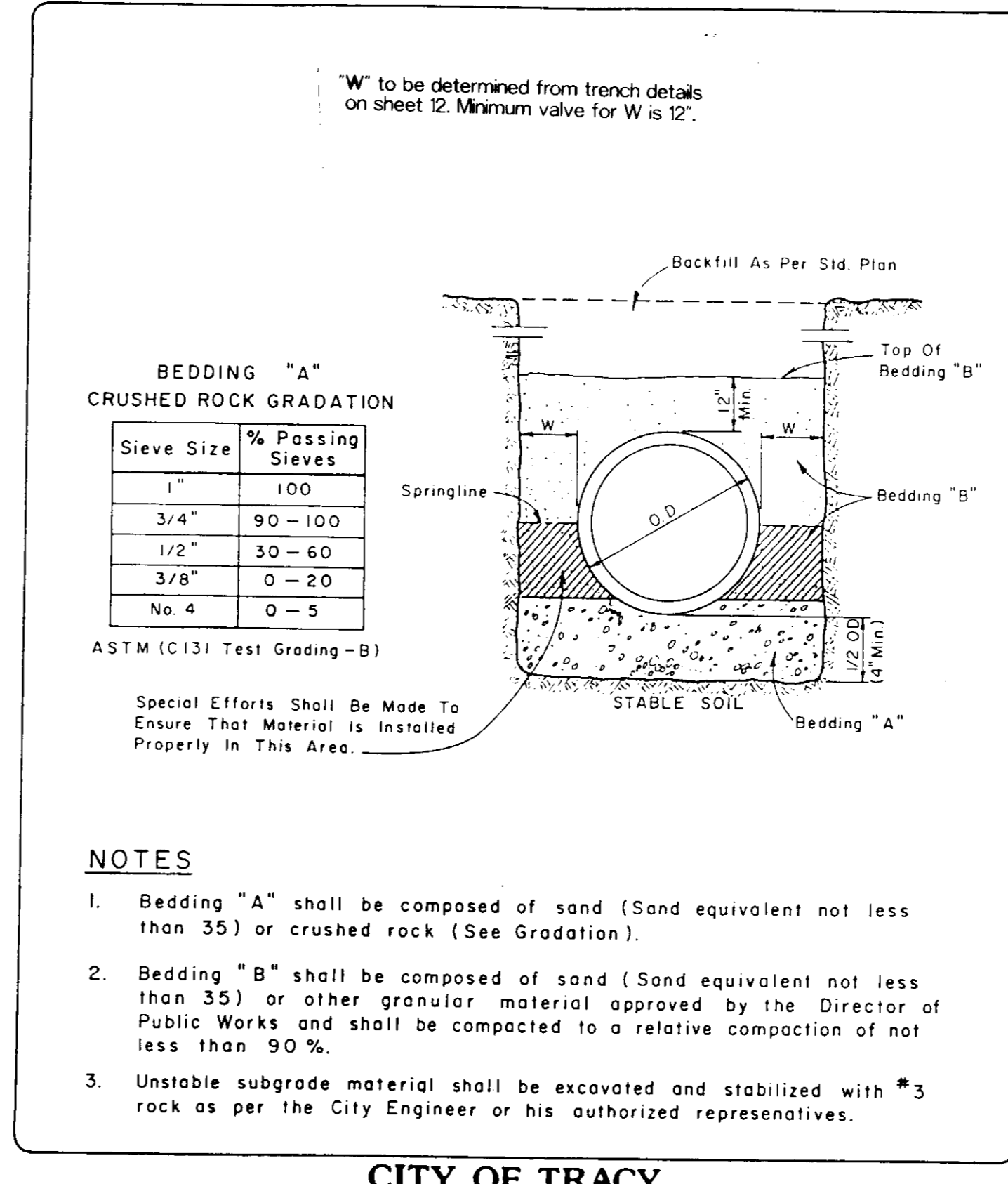
**CITY OF TRACY**

REVIEWED BY <i>Michael D. Bluskey</i> CITY ENGINEER RCE 22601	STANDARD PLAN No. <b>501</b>	SHEET 1 OF 4
Res No: 89-295 DATE: July 18, 1989	<b>TRENCHING &amp; RESURFACING</b>	
Rev: _____	Rev: _____	
Rev: _____	Rev: _____	

- NOTES:**
- Bedding "A" shall be composed of sand (sand equivalent not less than 30). For clay and concrete pipe, aggregate base per City Standard Specification may be used.
  - Bedding "B" shall be composed of sand (sand equivalent not less than 30).
  - Unstable subgrade material shall be excavated and stabilized with #3 rock (per ASTM C-33 or approved equal) or with cement slurry/concrete as approved by the Deputy Director of Public Works/Construction.
  - All trenches shall be shored or protected in accordance with OSHA and other State and Federal safety codes, regulations and ordinances.
  - Backfill material shall be either aggregate base (95% relative compaction 3'-0" below asphalt concrete and 90% relative compaction for remaining depth) or one (1) sack slurry mix.
  - Placement of aggregate base shall be in 12" lifts evenly placed and mechanically compacted to relative density as specified. Compaction tests shall be required at discretion of Deputy Director of Public Works/Construction. All costs related to these tests shall be born by owner/contractor/utility company when such tests are required. If results of these tests does not meet specified requirements, backfill shall be excavated, replaced, compacted and retested. In case of one sack slurry mix, no compaction test will be required. Compaction by jetting may be allowed by special permission of the Deputy Director of Public Works/Construction in pipe bedding zone.
  - Drop hammer shall not be used to cut pavement.
  - All trenches shall be backfilled and temporarily paved or steel plated at the end of each working day.
  - Minimum 24 hour notice shall be required for all City inspections. Call City of Tracy Construction Management 836-9193.
  - Initial cut in street pavement shall be equal to width of trench with option of being jack hammered or saw cut.
  - Final cut in street pavement shall be 18" wider than trench width as shown in detail and shall be made by saw cutting only.
  - Temporary bituminous surfacing (cut back) shall be placed and compacted immediately above the trench following compaction and approval of Deputy Director of Public Works/Construction. Minimum depth of cut back shall be 2" or as specified by Deputy Director of Public Works/Construction. Cut backs shall be maintained in a condition satisfactory to Deputy Director of

**CITY OF TRACY**

REVIEWED BY <i>Michael D. Bluskey</i> CITY ENGINEER RCE 22601	STANDARD PLAN No. <b>501</b>	SHEET 3 OF 4
Res No: 89-295 DATE: July 18, 1989	<b>TRENCHING &amp; RESURFACING</b>	
Rev: _____	Rev: _____	
Rev: _____	Rev: _____	

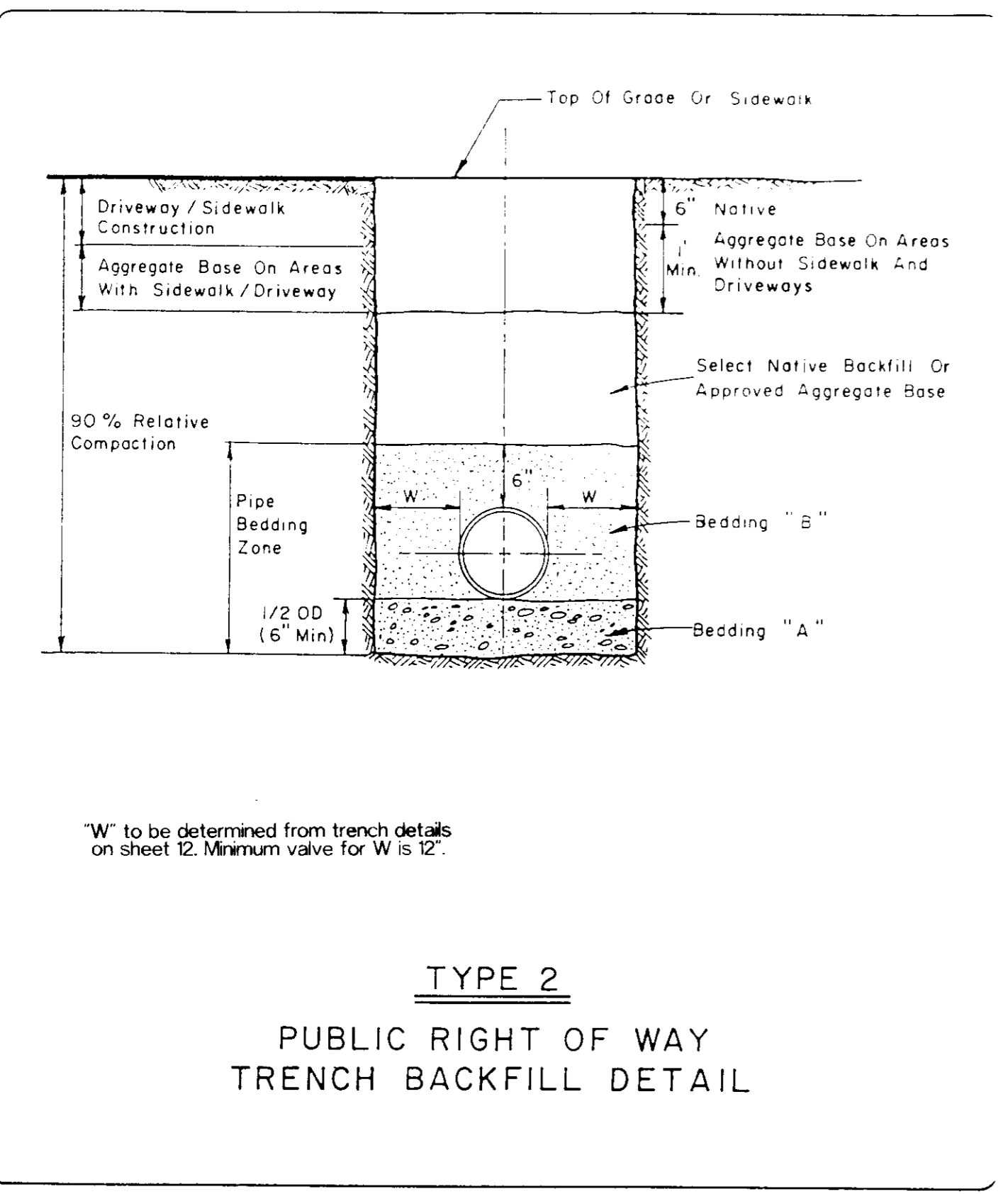


- NOTES**
- Bedding "A" shall be composed of sand (Sand equivalent not less than 35) or crushed rock (See Gradation).
  - Bedding "B" shall be composed of sand (Sand equivalent not less than 35) or other granular material approved by the Director of Public Works and shall be compacted to a relative compaction of not less than 90%.
  - Unstable subgrade material shall be excavated and stabilized with #3 rock as per the City Engineer or his authorized representatives.

**CITY OF TRACY**

REVIEWED BY <i>Michael D. Bluskey</i> CITY ENGINEER RCE 22601	STANDARD PLAN No. <b>502</b>	SHEET 3 OF 4
Res No: 87-364 DATE: Dec. 22, 1987	<b>PIPE ZONE &amp; BEDDING</b>	
Rev: _____	Rev: _____	
Rev: _____	Rev: _____	

SEE SHEET 12 FOR SPECIFIC PIPE BEDDING DETAILS FOR PIPE ALTERNATES



**TYPE 2**  
PUBLIC RIGHT OF WAY TRENCH BACKFILL DETAIL

**CITY OF TRACY**

REVIEWED BY <i>Michael D. Bluskey</i> CITY ENGINEER RCE 22601	STANDARD PLAN No. <b>501</b>	SHEET 2 OF 4
Res No: 89-295 DATE: July 18, 1989	<b>TRENCHING &amp; RESURFACING</b>	
Rev: _____	Rev: _____	
Rev: _____	Rev: _____	

- NOTES: cont.**
- Public Works/Construction up to time the final paving is placed on trench in accordance with Note 13.
- Final paving above trench section shall be placed within 14 days of its backfill and compaction. Extension may be granted by Public Works Deputy Director/Construction due to weather conditions. Depth of final paving shall be 1 1/3 times existing pavement. In the event permanent paving is not done within 14 days, the City will consider this as incomplete work and will take necessary action in accordance with prevailing City ordinances and policies.
  - Temporary cut back shall be removed before placement of final paving. Final paving shall be placed on undisturbed previously inspected and compacted aggregate base or one sack slurry mix. Re-compaction shall be required for any disturbed base or surface.
  - For a parallel trench longer than one half length of the block, a slurry seal shall be required on entire half width of street on trench side as directed by Deputy Director of Public Works/Construction.
  - Proper traffic controls and covering of trenches shall be maintained in accordance with City of Tracy safety and traffic control manual in construction areas.
  - No trench shall be opened in any street for purpose of laying pipes or conduits more than six hundred (600) feet at a time.
  - Asphalt concrete shall be in accordance with City of Tracy Standard Specifications.
  - Trenching shall not be allowed on any street which has been reconstructed or repaved within past 3 years nor on slurry sealed streets for a period of eighteen (18) months.

**CITY OF TRACY**

REVIEWED BY <i>Michael D. Bluskey</i> CITY ENGINEER RCE 22601	STANDARD PLAN No. <b>501</b>	SHEET 4 OF 4
Res No: 89-295 DATE: July 18, 1989	<b>TRENCHING &amp; RESURFACING</b>	
Rev: _____	Rev: _____	
Rev: _____	Rev: _____	

SU 2525

8/22/91 DATE  
 Thomas E. Ruark  
 REGISTERED CIVIL ENGINEER NO. 39888  
 EXP. DATE DECEMBER 31, 1993  
 BISSELL & KARN A GREINER ENGINEERING COMPANY

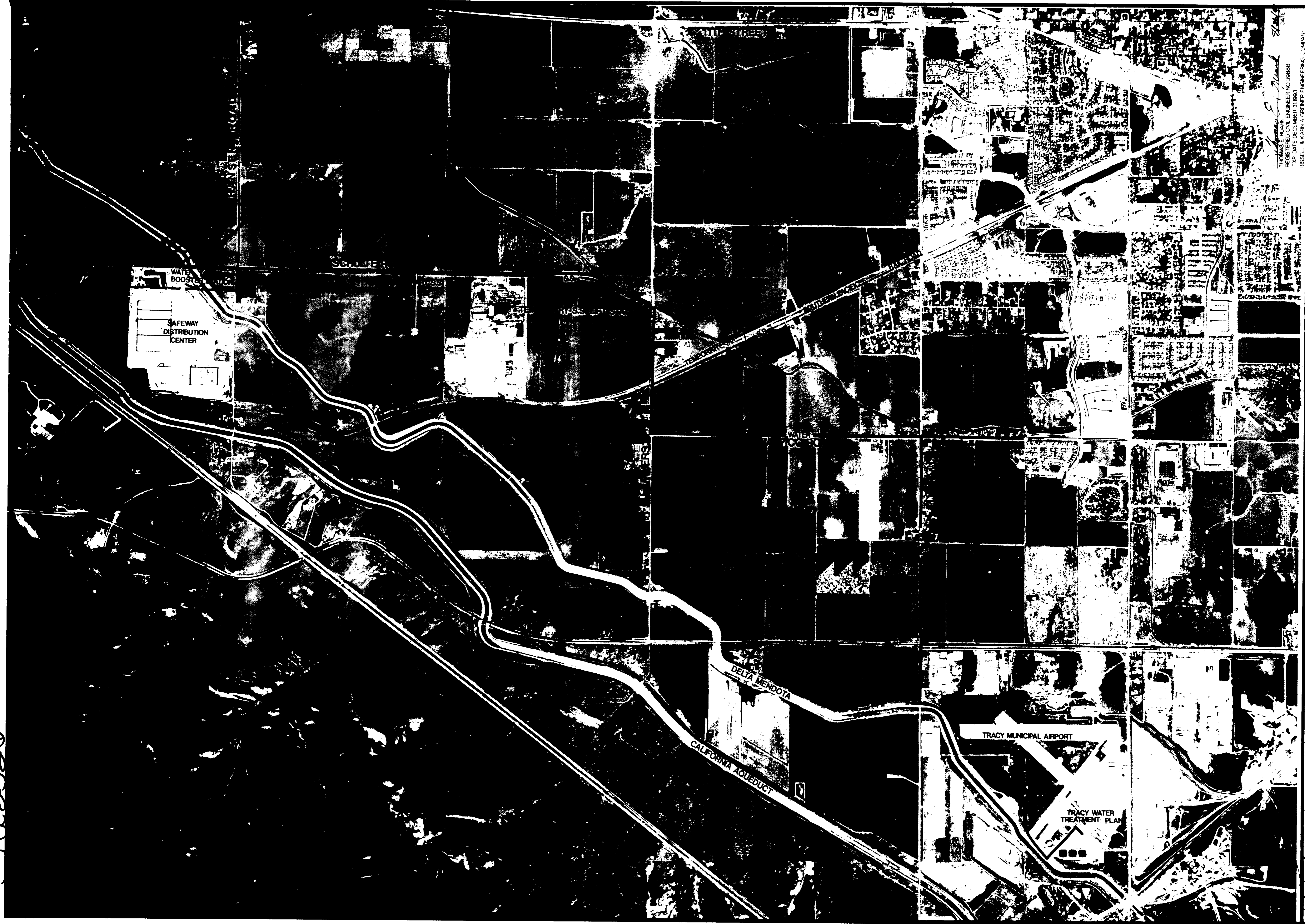
**Bissell & Karn** A GREINER ENGINEERING COMPANY  
 ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS  
 5890 STONERIDGE DRIVE, PLEASANTON, CALIFORNIA 94588-2702 (415) 463-0660

PATTERSON PASS BUSINESS CENTER  
 SANITARY SEWER AND WATER SYSTEMS - PHASE I  
**TRENCH DETAILS**  
 FOR: CITY OF TRACY  
 SAN JOAQUIN COUNTY, CALIF.

DATE	BY	REVISIONS
8/22/91	AS SHOWN	AS SHOWN
8/19/91	ADDENDUM 1	SPEC. CHG. ONLY
8/22/91	ADDENDUM 2	(NEW SHEET)

SCALE: 1" = 12"  
 DRAWN BY: CATLETT  
 CHECKED BY: T. RUARK  
 SHEET NO. **11**  
 OF 13 SHEETS  
 JOB NO. N0792.10  
 FILE NO.

SU 2526



THOMAS TRUARK  
 REGISTERED CIVIL ENGINEER NO. 39688  
 EXP. DATE DECEMBER 31, 1993  
 BISSELL & KARN, A GREINER ENGINEERING COMPANY

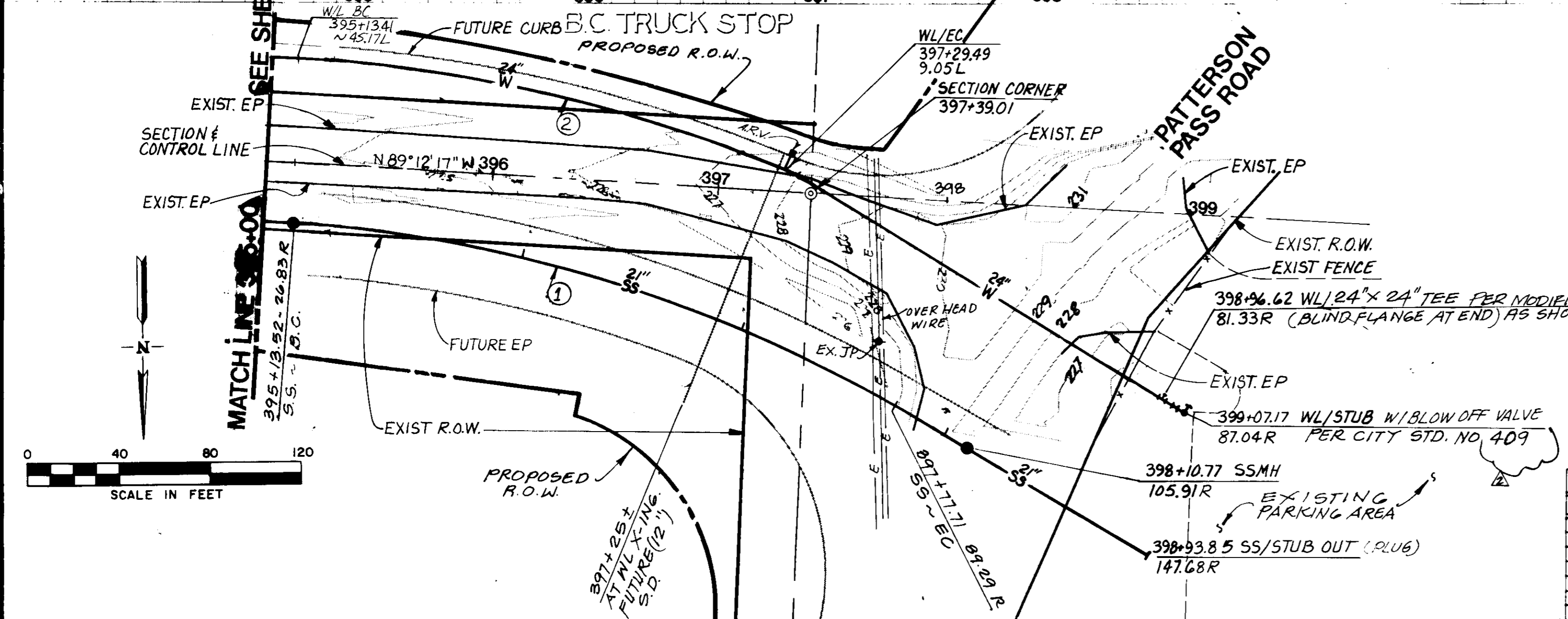
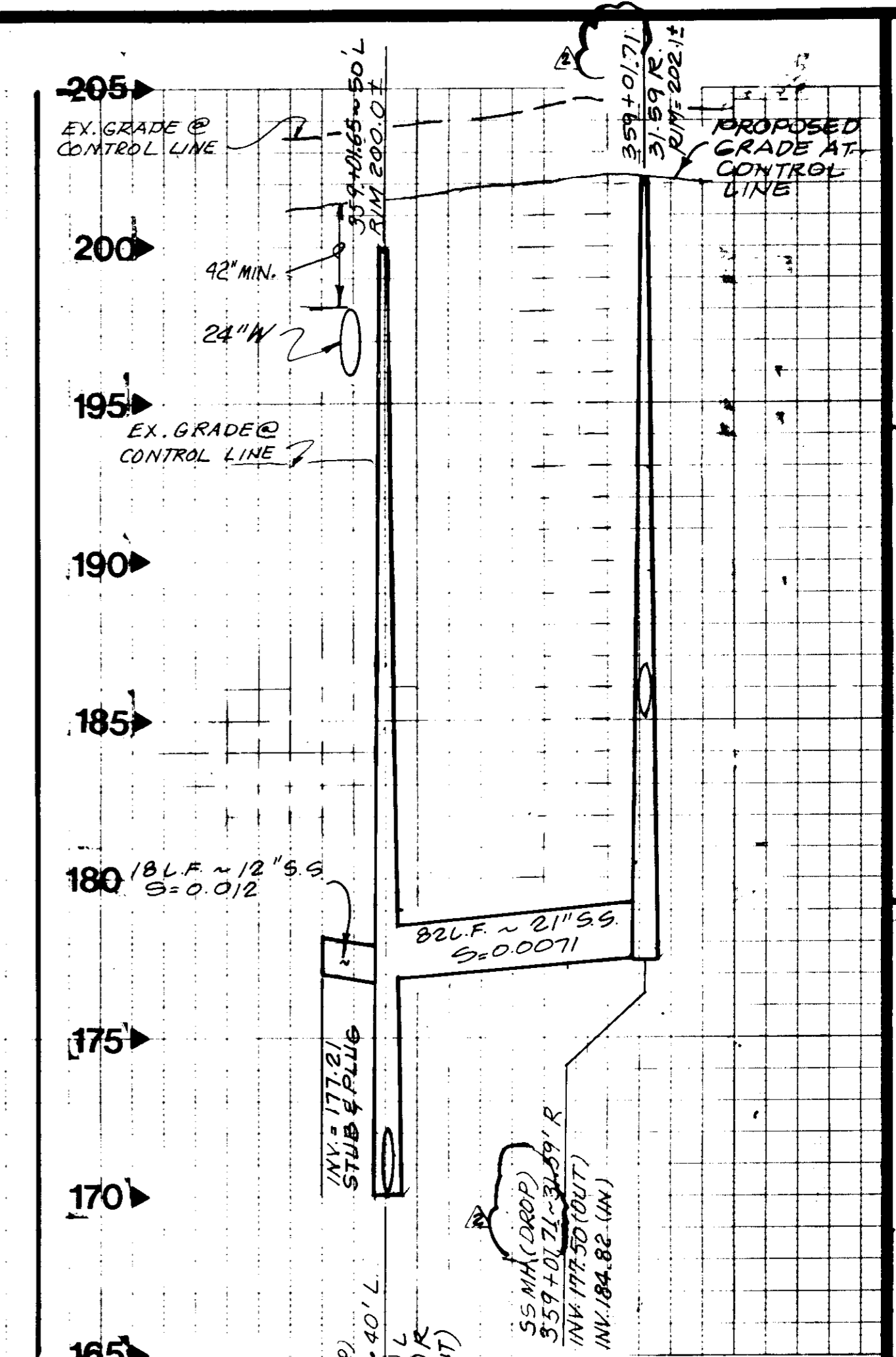
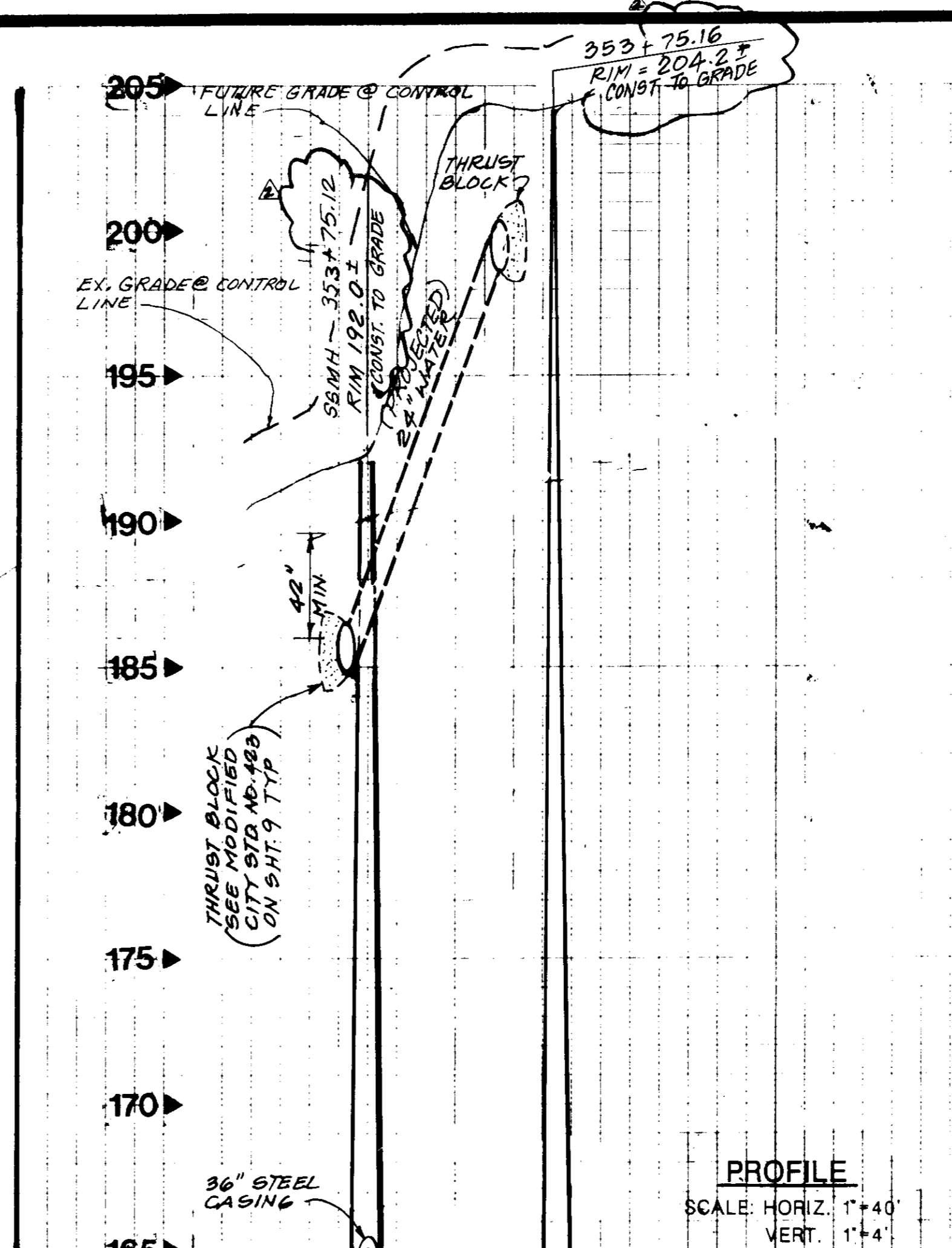
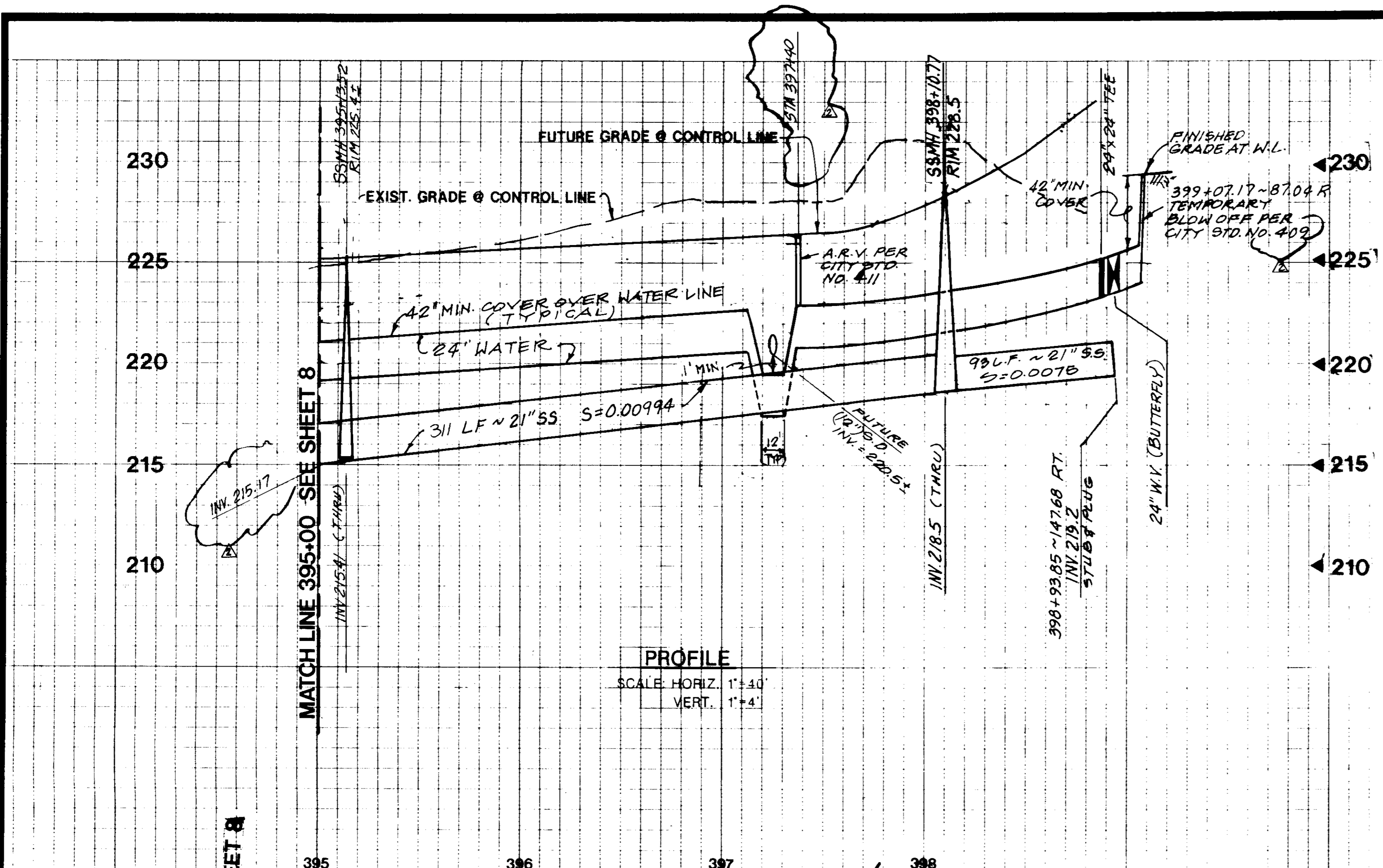
**Bissell & Karn**  
 A GREINER ENGINEERING COMPANY  
 ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS  
 5890 STONERIDGE DRIVE, PLEASANTON, CALIFORNIA 94588-2702 (415) 463-0660

PATTERSON PASS BUSINESS CENTER  
 SANITARY SEWER AND WATER SYSTEMS - PHASE I  
**SYSTEMS KEY MAP**  
 FOR: CITY OF TRACY  
 SAN JOAQUIN COUNTY, CALIFORNIA

DATE	BY	REV.	DESCRIPTION
8/12/91	BD	1	AS SHOWN
8/14/91	CA	2	MAY 1991
8/22/91	CA	3	ADDENDUM 1 - SPEC CHG ONLY
			CATLETT
			DLP
			TRUARK

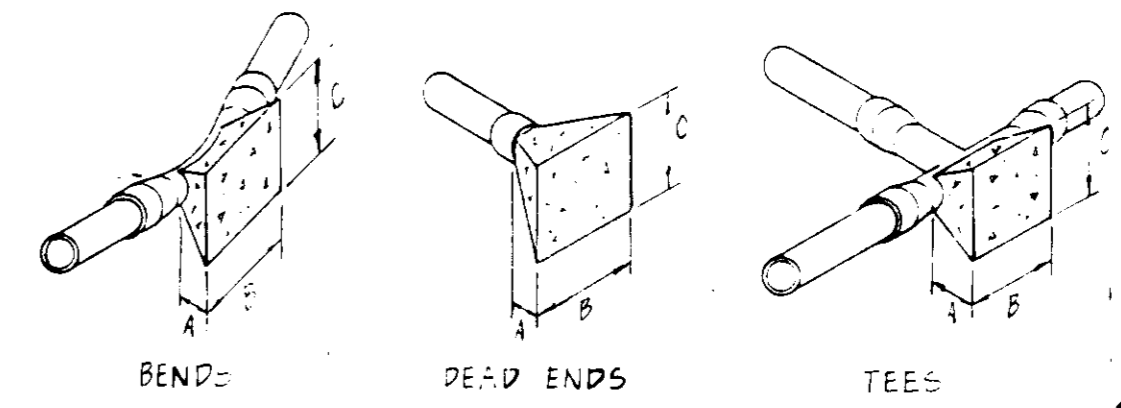
SHEET NO. **10**  
 OF 13 SHEETS  
 JOB NO. N0792.10  
 FILE NO.

SU 2527

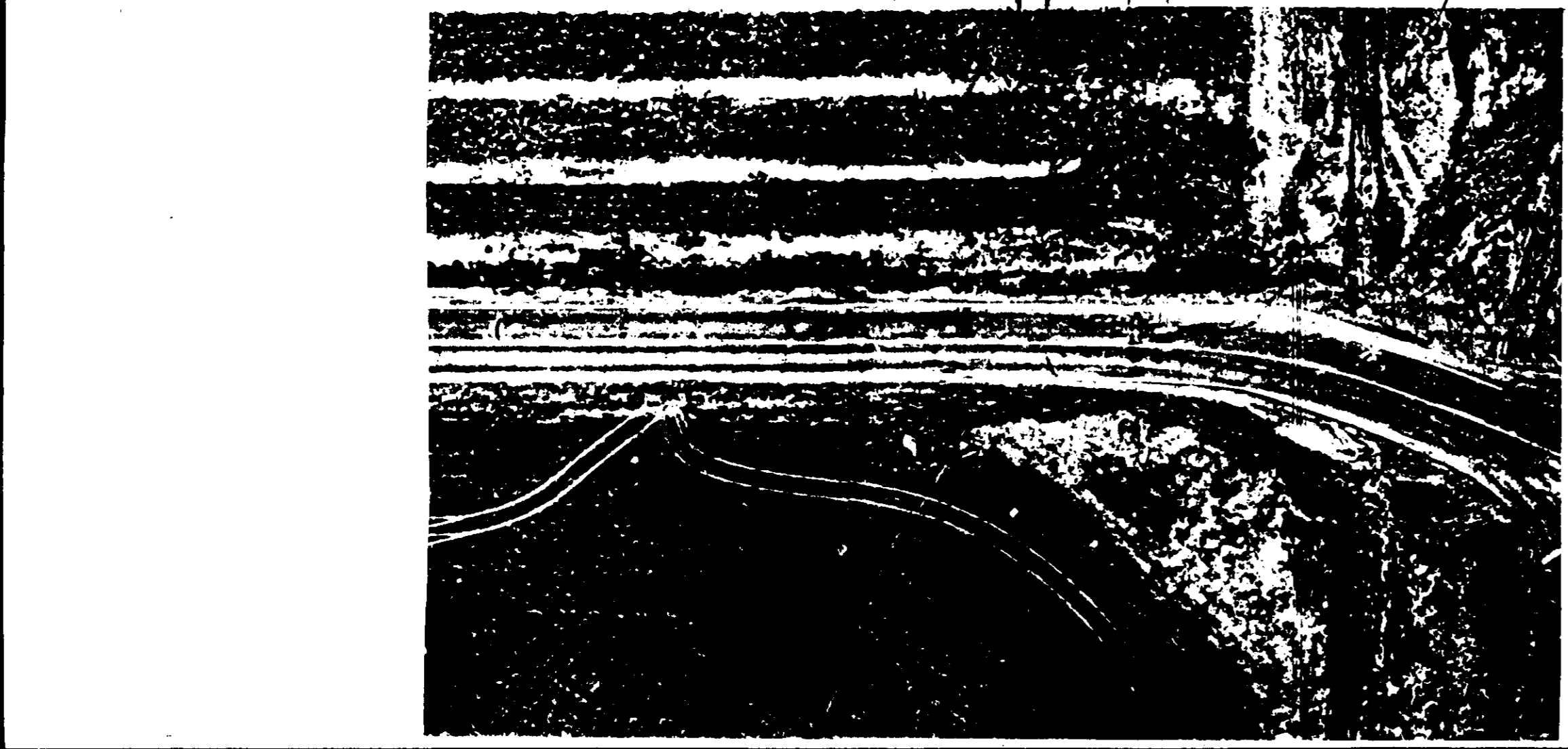
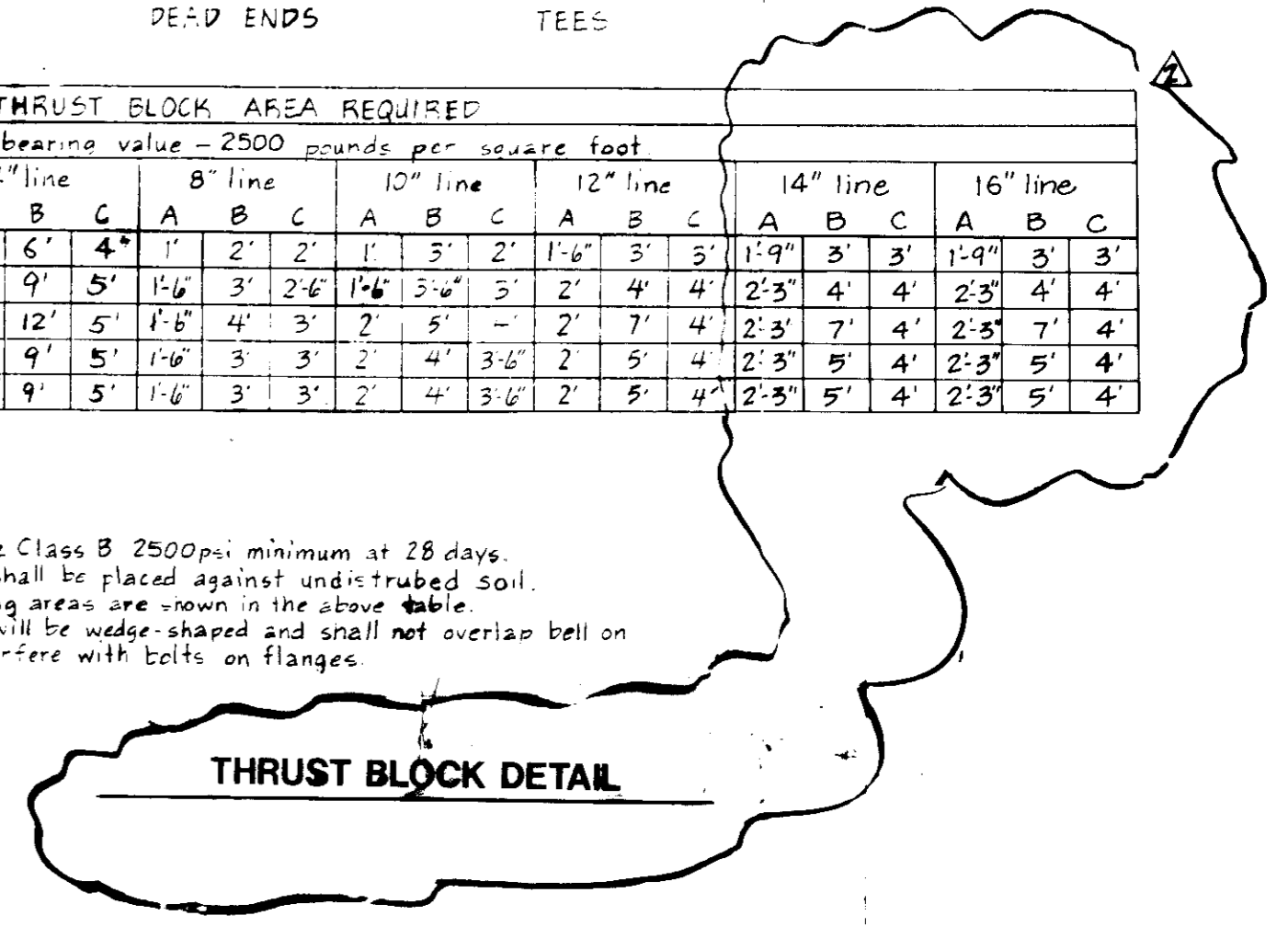


CURVE DATA				
NO.	RADIUS	DELTA	LENGTH	REMARK
1	586.00'	28°47'09"	273.96'	S.S. LINE
2	658.00'	19°09'56"	220.10'	WATER LINE

THRUST BLOCK AREA REQUIRED												
Allowable soil bearing value - 2500 pounds per square foot												
Fittings	24" line			18" line			12" line			14" line		
	A	B	C	A	B	C	A	B	C	A	B	C
22 1/2° bend	2' 6"	4' 4"	1'	2' 2"	1' 5"	2'	1' 6"	3' 5"	1' 9"	3' 3"	1' 9"	3' 3"
45° bend	2' 9"	5' 1"	1' 6"	3' 2"	1' 6"	3' 2"	2' 4"	2' 5"	4' 4"	2' 5"	4' 4"	2' 5"
90° bend	2' 6"	12' 5"	1' 6"	4' 3"	2' 5"	2'	4' 3"	2' 5"	4' 3"	2' 5"	4' 3"	2' 5"
Dead end	2' 6"	9' 5"	1' 6"	3' 3"	2' 4"	3' 6"	2' 5"	4' 2' 3"	5' 4"	2' 5"	4' 2' 3"	5' 4"
Tee	2' 6"	9' 5"	1' 6"	3' 3"	2' 4"	3' 6"	2' 5"	4' 2' 3"	5' 4"	2' 5"	4' 2' 3"	5' 4"



- NOTES:
- Concrete shall be Class B 2500psi minimum at 28 days.
  - Thrust blocks shall be placed against undisturbed soil.
  - Minimum bearing areas are shown in the above table.
  - Thrust blocks will be wedge-shaped and shall not overlap bell on fittings or interfere with bolts on flanges.



WHERE A DISCREPANCY EXISTS BETWEEN A STATED STATION AND ITS ACTUAL LOCATION ON THE PLAN AND/OR PROFILE THE STATED STATION GOVERNS.

ALL INFORMATION ON FUTURE IMPROVEMENTS IS BASED UPON PLANS AND/OR PROFILES PREPARED BY MAJOR ENGINEERING DATED 199... THESE FUTURE IMPROVEMENTS SHALL OCCUR CONCURRENTLY WITH THESE IMPROVEMENTS.

**Bissell & Karn**  
 ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS  
 5590 STONERIDGE DRIVE, PLEASANTON, CALIFORNIA 94588-2702 (415) 463-0660

PATTERSON PASS BUSINESS CENTER  
 SANITARY SEWER AND WATER SYSTEMS - PHASE I  
 SCHULTE ROAD  
 STA. 395+00 TO STA. 400+00  
 SAN JOAQUIN, CALIFORNIA

DATE	BY	CHK	SCALE	AS SHOWN	DATE	BY	CHK
8/12/19	...	...	...	...	...	...	...
8/14/19	...	...	...	...	...	...	...
8/15/19	...	...	...	...	...	...	...

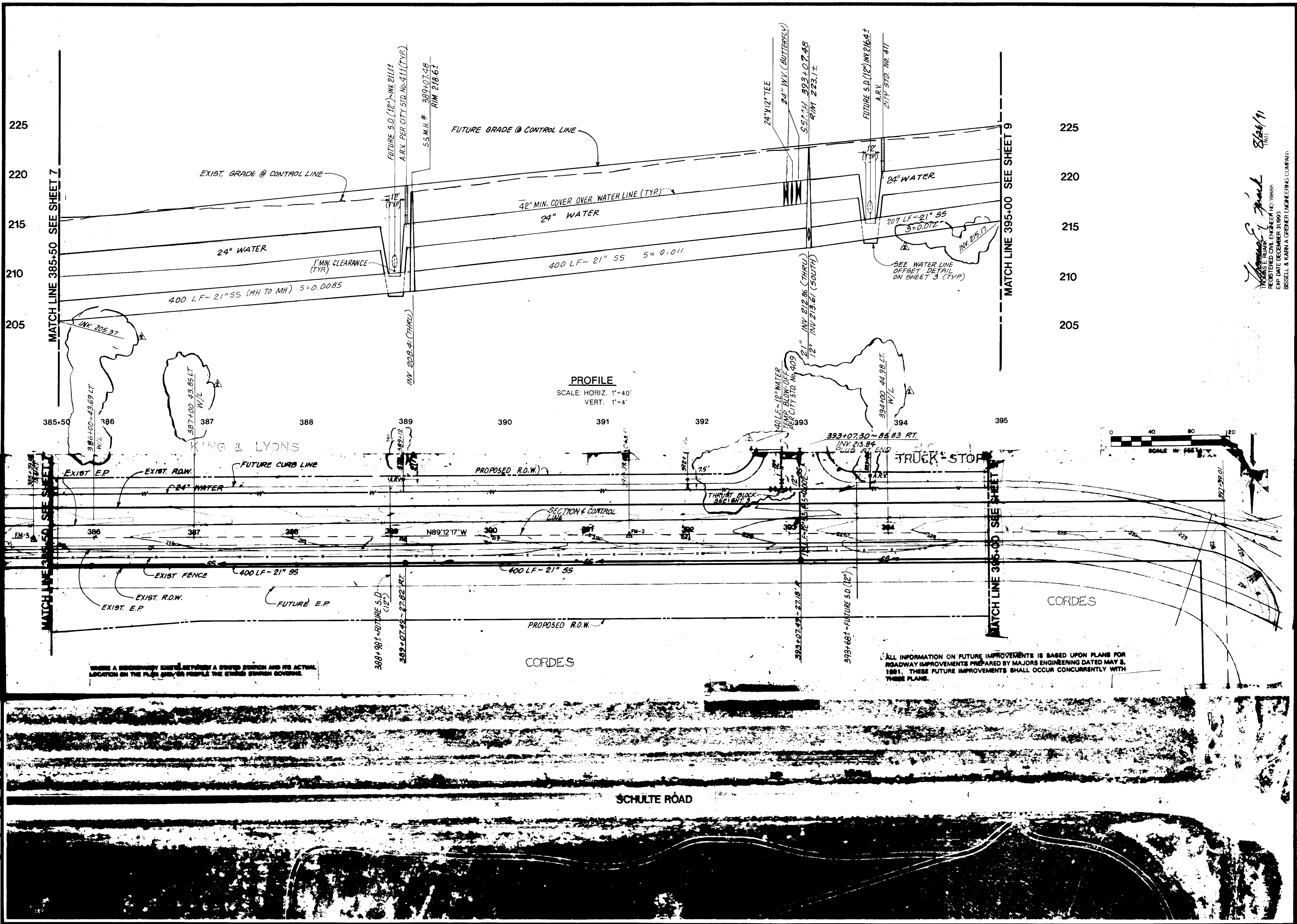
SHEET NO. **9**

OF **9** SHEETS

JOB NO. 10792.10

FILE NO.

SU 2528



**Bissell & Karn**  
 ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS  
 5890 STONERIDGE DRIVE, PLEASANTON, CALIFORNIA 94588-2702 (415) 463-0680

PATTERSON PASS BUSINESS CENTER  
 SANITARY SEWER AND WATER SYSTEMS - PHASE I  
 SHULTE ROAD  
 STA. 385+50 TO STA. 395+00  
 SAN JOAQUIN COUNTY  
 FOR: CITY OF TRACY

DATE	BY	SCALE	DATE	DATE	DATE
8/12/91					
8/19/91					
8/22/91					

DATE	BY	SCALE	DATE	DATE	DATE

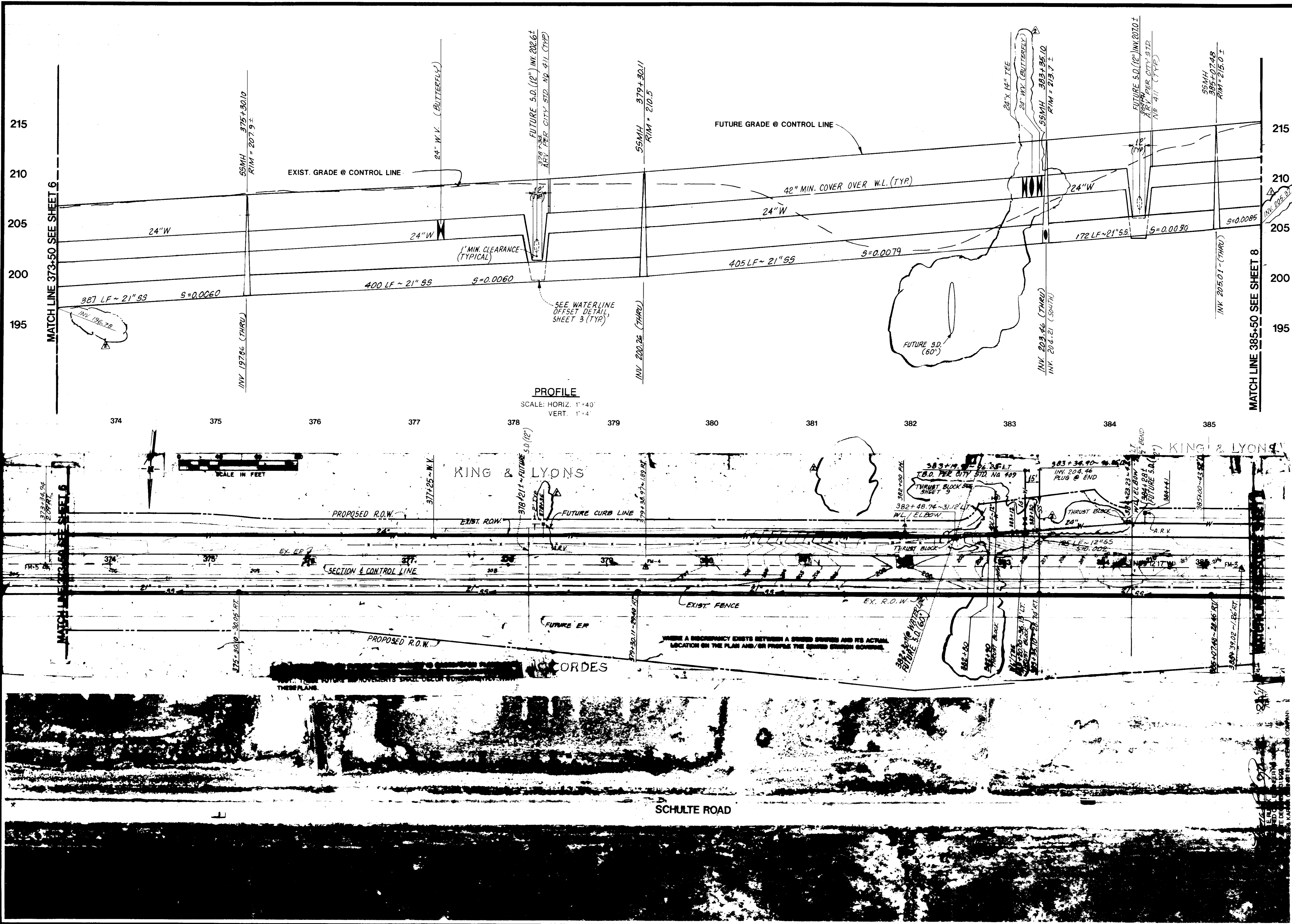
  

DATE	BY	SCALE	DATE	DATE	DATE

DATE	BY	SCALE	DATE	DATE	DATE

SU 2529



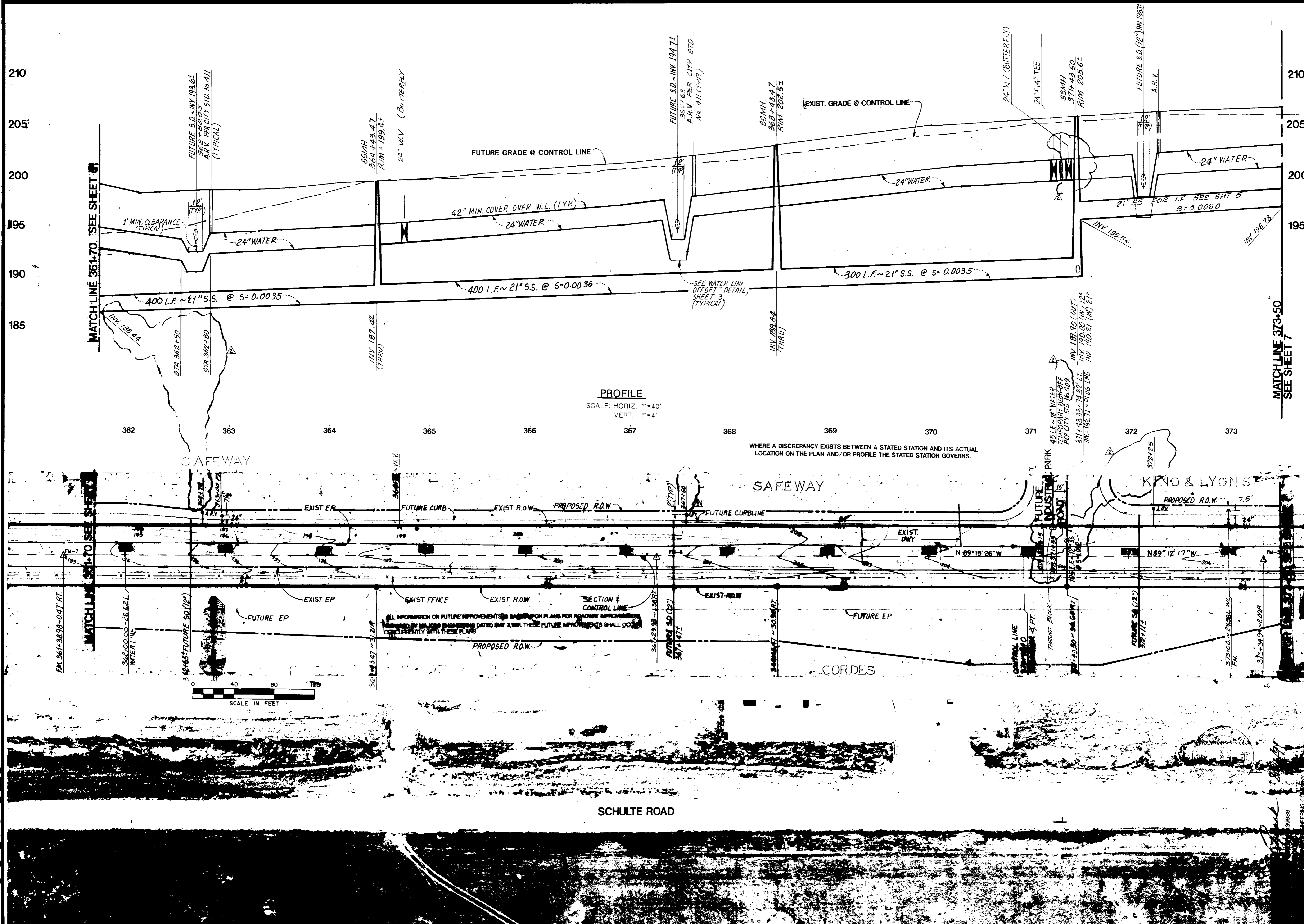
**Bissell & Karn**  
 ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS  
 5890 STONERIDGE DRIVE, PLEASANTON, CALIFORNIA 94568-2702 (415) 463-0660

PATTERSON PASS BUSINESS CENTER  
 SANITARY SEWER AND WATER SYSTEMS - PHASE I  
 STA. 373+50 TO STA. 385+50  
 FOR: CITY OF TRACY

SCALE AS SHOWN  
 DATE 8/21/91  
 DRAWN BY BJA  
 CHECKED BY BJA  
 PROJ. NO. 91-001  
 SHEET NO. 7  
 OF 13 SHEETS  
 JOB NO. N0792.10  
 FILE NO.

DATE 8/21/91  
 BY BJA  
 SHEET REVISIONS  
 1. APPENDIX 1 SPEC. CHG. ONLY  
 2. APPENDIX 2  
 3. APPENDIX 3  
 4. APPENDIX 4  
 5. APPENDIX 5  
 6. APPENDIX 6  
 7. APPENDIX 7  
 8. APPENDIX 8  
 9. APPENDIX 9  
 10. APPENDIX 10  
 11. APPENDIX 11  
 12. APPENDIX 12  
 13. APPENDIX 13  
 14. APPENDIX 14  
 15. APPENDIX 15  
 16. APPENDIX 16  
 17. APPENDIX 17  
 18. APPENDIX 18  
 19. APPENDIX 19  
 20. APPENDIX 20

SU 2530



**PROFILE**  
 SCALE: HORIZ. 1"=40'  
 VERT. 1"=4'

WHERE A DISCREPANCY EXISTS BETWEEN A STATED STATION AND ITS ACTUAL LOCATION ON THE PLAN AND/OR PROFILE THE STATED STATION GOVERNS.

**Bissell & Karn** A GREINER ENGINEERING COMPANY  
 ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS  
 5880 STONERIDGE DRIVE, PLEASANTON, CALIFORNIA 94588-2702 (415) 463-0680

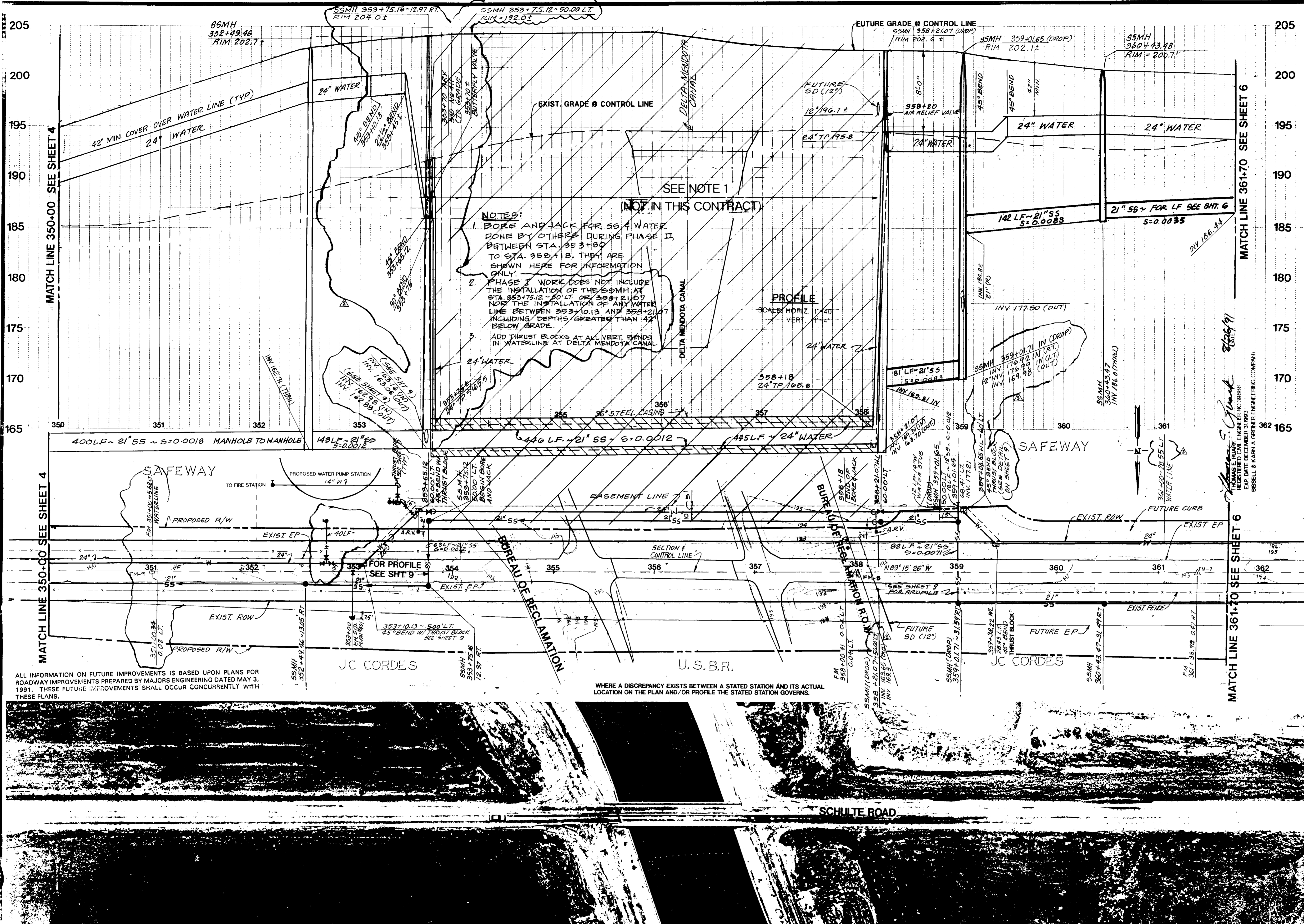
PATTERSON PASS BUSINESS CENTER  
 SANITARY SEWER AND WATER SYSTEMS - PHASE I  
 SCHULTE ROAD  
 STA. 361+70 TO STA. 373+50  
 FOR: CITY OF TRACY  
 SAN JOAQUIN, CALIFORNIA

DATE	BY	REVISIONS
8/12/91	AS SHOWN	
8/14/91		APPENDICUM 1 SPEC CHG ONLY
8/22/91		APPENDICUM 2

DATE: MAY 1991  
 DRAWN: [Signature]  
 CHECKED: [Signature]  
 PROJ. MGR: [Signature]

SHEET NO. **6**  
 OF 13 SHEETS  
 JOB NO. N0792.10  
 FILE NO.





**NOTES:**

1. BORE AND JACK FOR 24\"/>

**PROFILE**  
SCALE: HORIZ. 1\"/>

MATCH LINE 350+00 SEE SHEET 4

MATCH LINE 361+70 SEE SHEET 6

MATCH LINE 350+00 SEE SHEET 4

MATCH LINE 361+70 SEE SHEET 6

ALL INFORMATION ON FUTURE IMPROVEMENTS IS BASED UPON PLANS FOR ROADWAY IMPROVEMENTS PREPARED BY MAJORS ENGINEERING DATED MAY 3, 1991. THESE FUTURE IMPROVEMENTS SHALL OCCUR CONCURRENTLY WITH THESE PLANS.

WHERE A DISCREPANCY EXISTS BETWEEN A STATED STATION AND ITS ACTUAL LOCATION ON THE PLAN AND/OR PROFILE THE STATED STATION GOVERNS.

SU2531

**Bissell & Karn** A GREINER ENGINEERING COMPANY  
 ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS  
 5890 STONERIDGE DRIVE, PLEASANTON, CALIFORNIA 94588-2702 (415) 463-0660

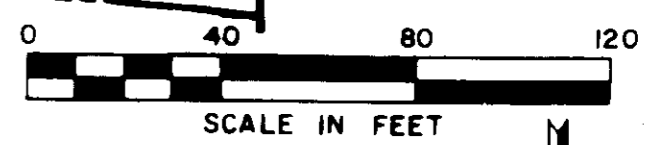
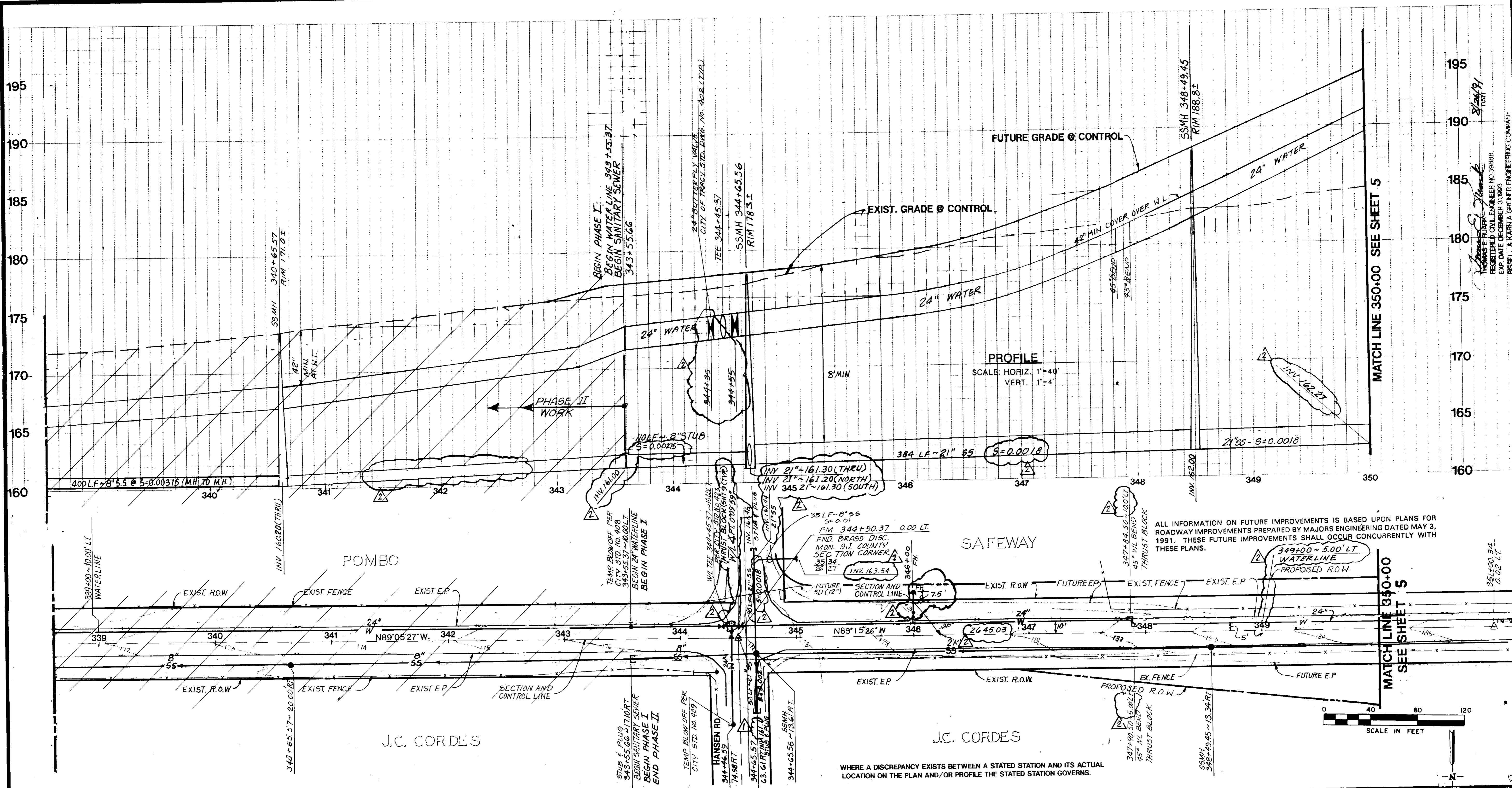
PATTERSON PASS BUSINESS CENTER  
 SANITARY SEWER AND WATER SYSTEMS - PHASE I  
 SCHULTE ROAD  
 STA. 350+00 TO STA. 361+70  
 FOR: CITY OF TRACY

DATE	BY	REVISIONS
8-12-91	AS	SCALE
8-19-91	AS	AS SHOWN
8-22-91	AS	BID SET
		APPENDIX 1 SPEC CHG ONLY
		APPENDIX 2
		DRAWN
		STAFF
		CHECKED
		PROJ. MGR.
		TR.

SHEET NO. **5**  
 OF 7 SHEETS  
 JOB NO. N0792.10  
 FILE NO.

SCALE: HORIZ. 1\"/>

SU 2532



WHERE A DISCREPANCY EXISTS BETWEEN A STATED STATION AND ITS ACTUAL LOCATION ON THE PLAN AND/OR PROFILE THE STATED STATION GOVERNS.

ALL INFORMATION ON FUTURE IMPROVEMENTS IS BASED UPON PLANS FOR ROADWAY IMPROVEMENTS PREPARED BY MAJORS ENGINEERING DATED MAY 3, 1991. THESE FUTURE IMPROVEMENTS SHALL OCCUR CONCURRENTLY WITH THESE PLANS.

REGISTERED CIVIL ENGINEER NO. 39888  
 EXP. DATE DECEMBER 31, 1993  
 BISSSELL & KARN A GREINER ENGINEERING COMPANY

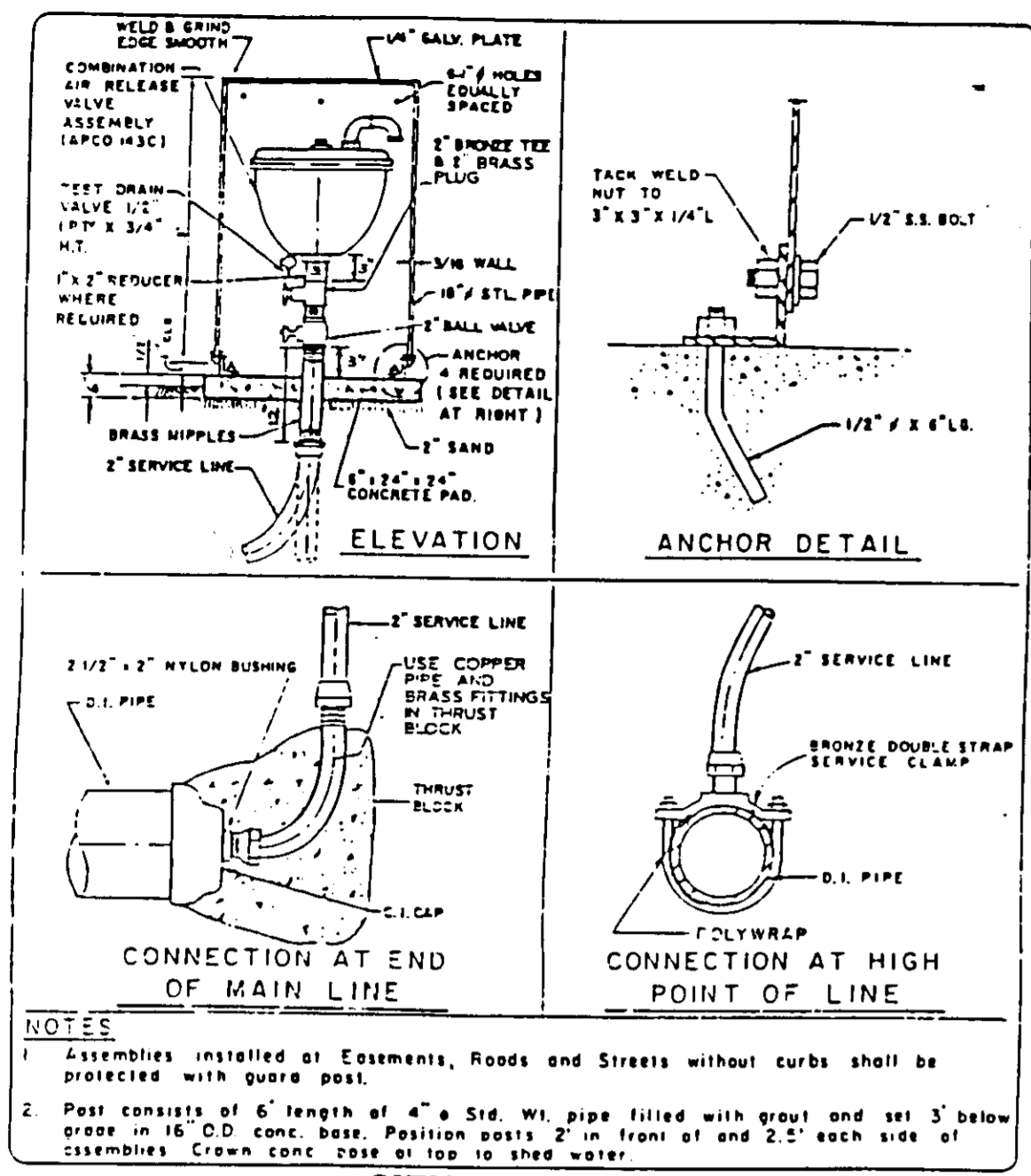
**Bissell & Karn** A GREINER ENGINEERING COMPANY  
 ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS  
 5890 STONERIDGE DRIVE, PLEASANTON, CALIFORNIA 94588-2702 (415) 463-0660

PATTERSON PASS BUSINESS CENTER  
 SANITARY SEWER AND WATER SYSTEMS - PHASE I  
 STA. 338+60 TO STA. 350+00  
 SCHULTE ROAD

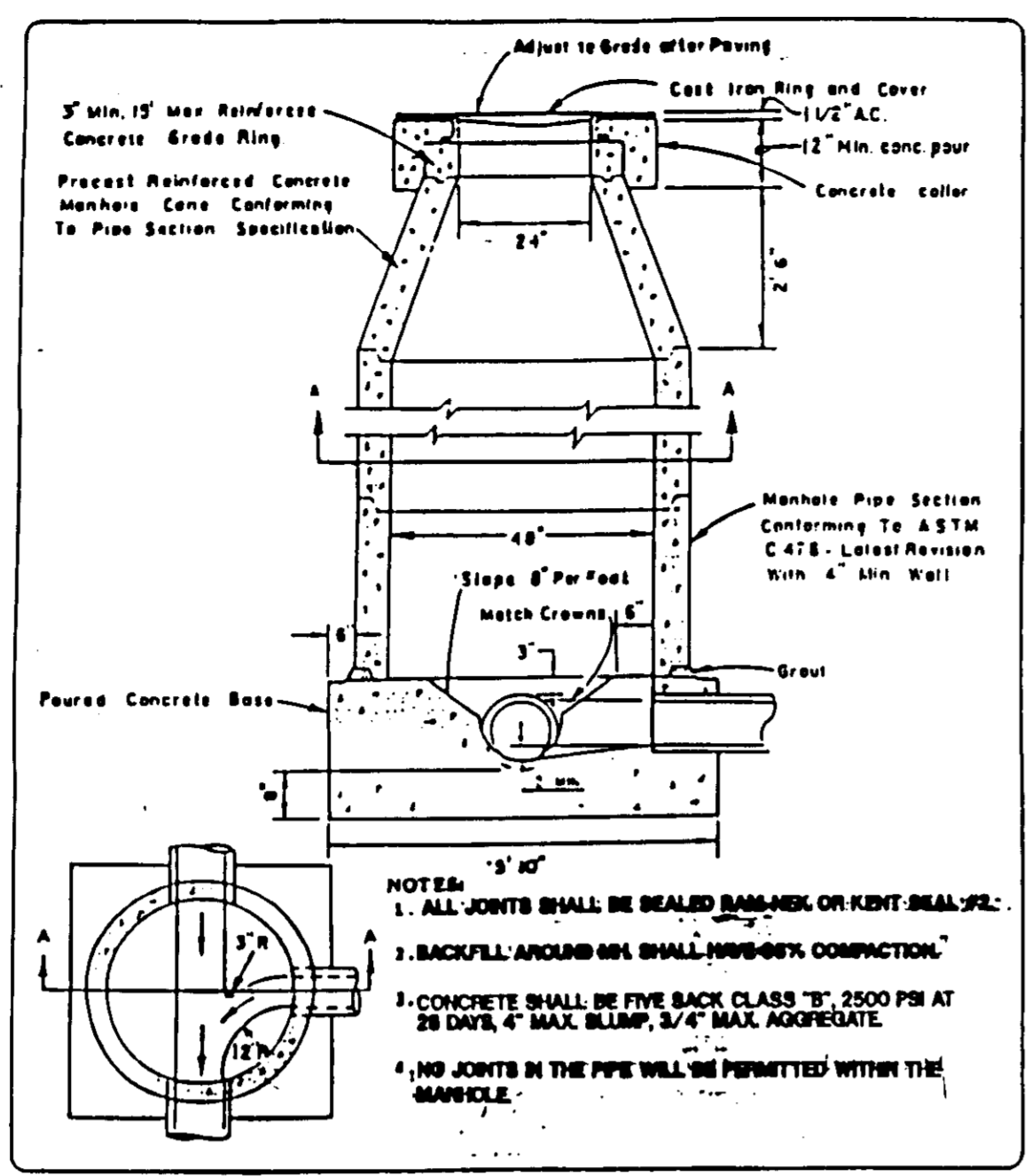
FOR: CITY OF TRACY

DATE	BY	CHK	REVISIONS
8/12/91	AWD	SET	AWD SET
8/17/91	AWD	ADD	ADDENDUM 1 - SPEC CHG ONLY
8/21/91	AWD	ADD	ADDENDUM 2

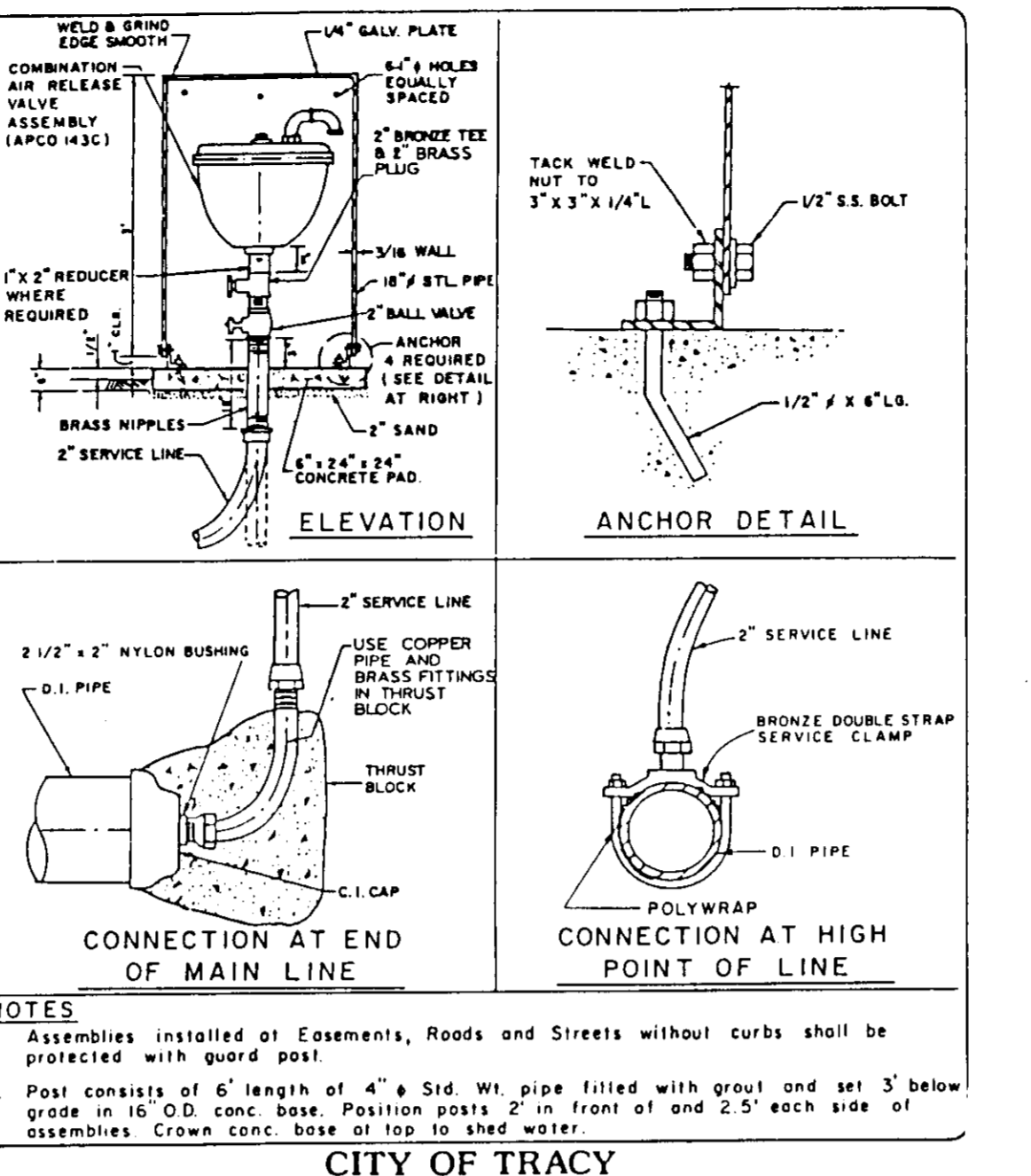
SHEET NO. **4**  
 OF 13 SHEETS  
 JOB NO. N0792.10  
 FILE NO.



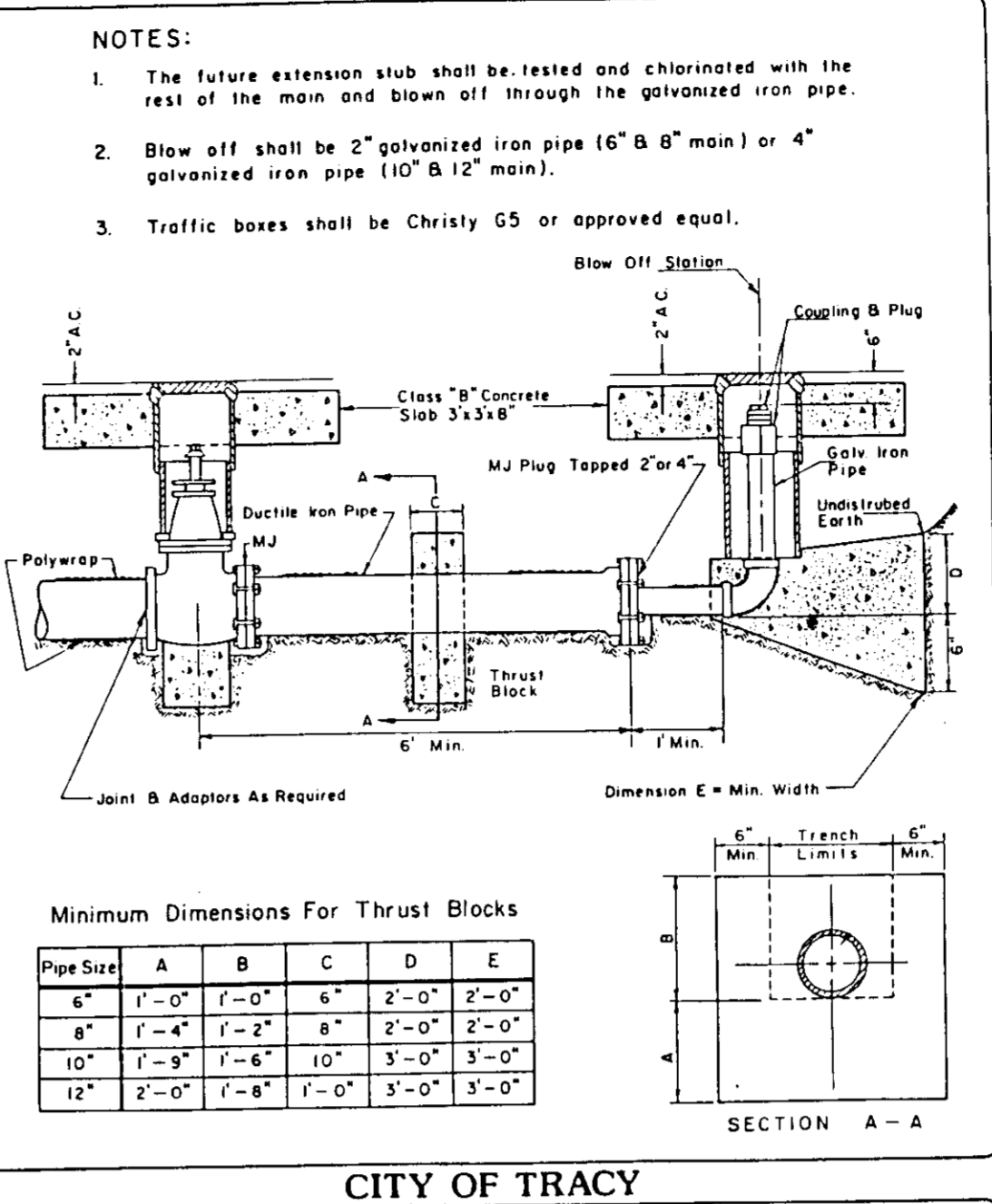
CITY OF TRACY	
REVIEWED BY CITY ENGINEER Res No: 87-364 DATE: Dec 22, 1987	STANDARD PLAN No. 411 COMBINATION AIR & VACUUM RELEASE VALVE ASSEMBLY & BLOWOFF



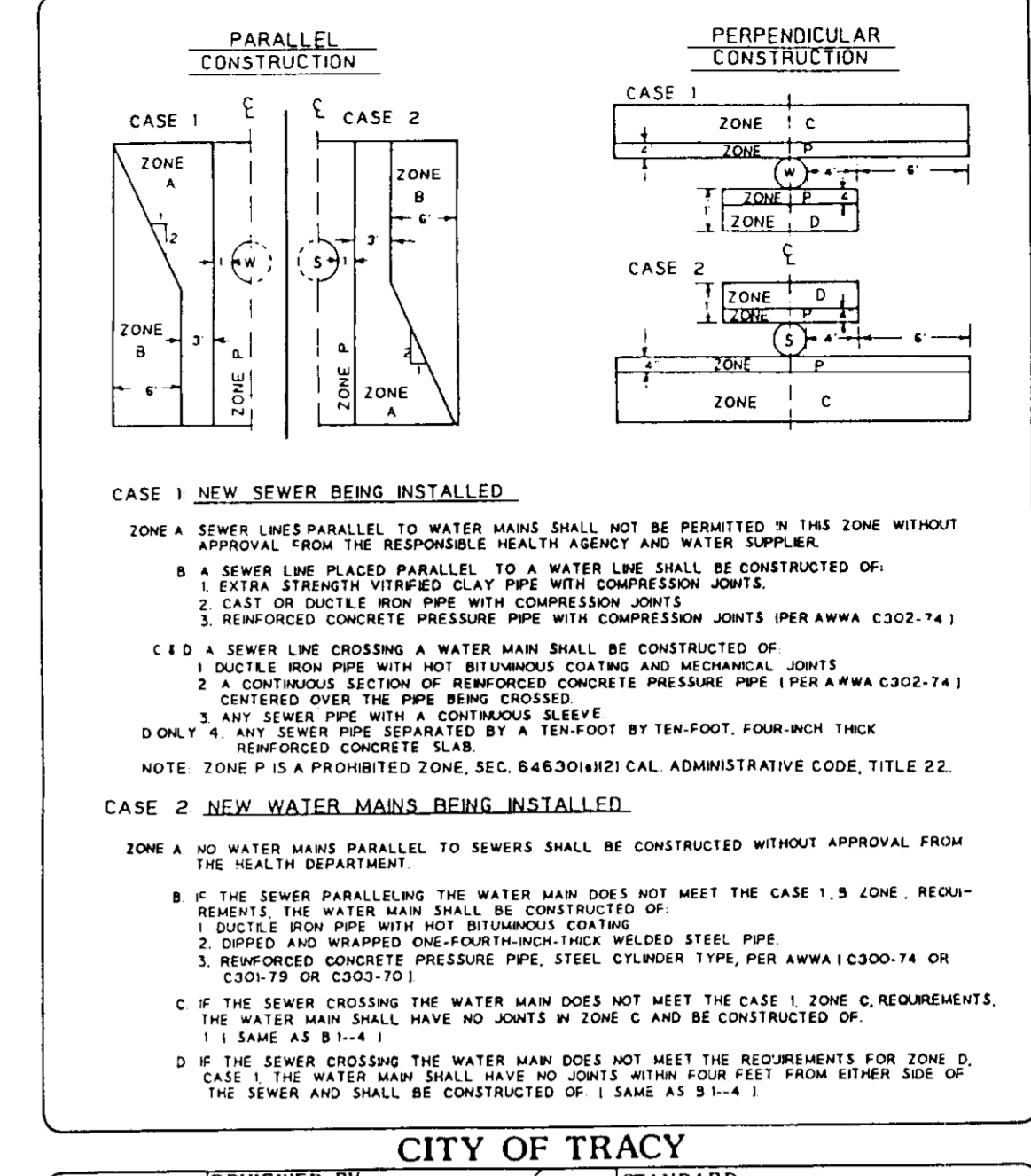
CITY OF TRACY	
REVIEWED BY CITY ENGINEER Res No: 87-364 DATE: Dec 22, 1987	STANDARD PLAN No. 301 MANHOLE



CITY OF TRACY	
REVIEWED BY CITY ENGINEER Res No: 87-364 DATE: Dec 22, 1987	STANDARD PLAN No. 411 COMBINATION AIR & VACUUM RELEASE VALVE ASSEMBLY & BLOWOFF

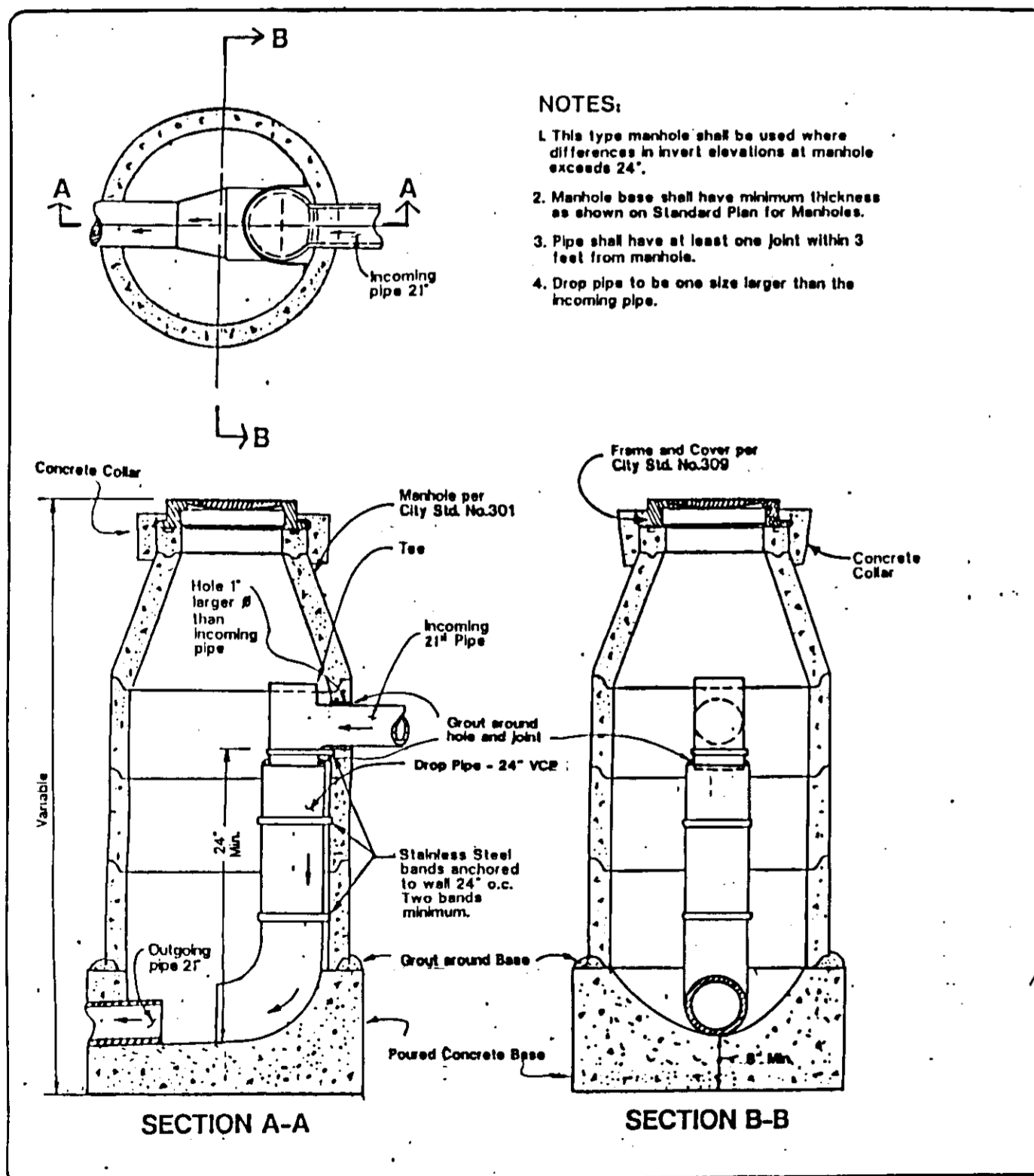


CITY OF TRACY	
REVIEWED BY CITY ENGINEER Res No: 87-364 DATE: Dec 22, 1987	STANDARD PLAN No. 409 BLOW OFF FOR FUTURE EXTENSION WITH VALVE

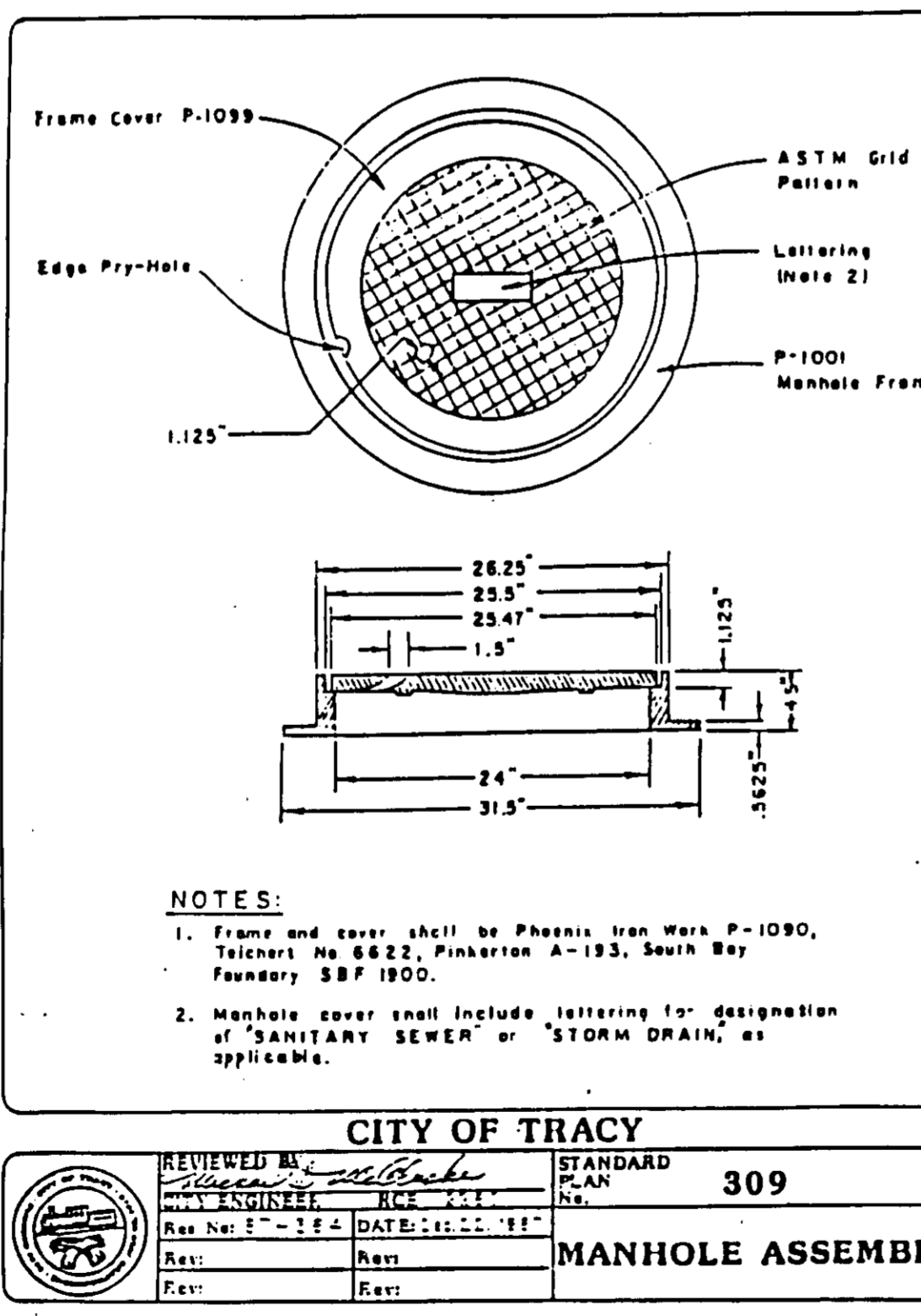


CITY OF TRACY	
REVIEWED BY CITY ENGINEER Res No: 87-364 DATE: Dec 22, 1987	STANDARD PLAN No. 506 WATER/SEWER SEPARATION REQUIREMENTS

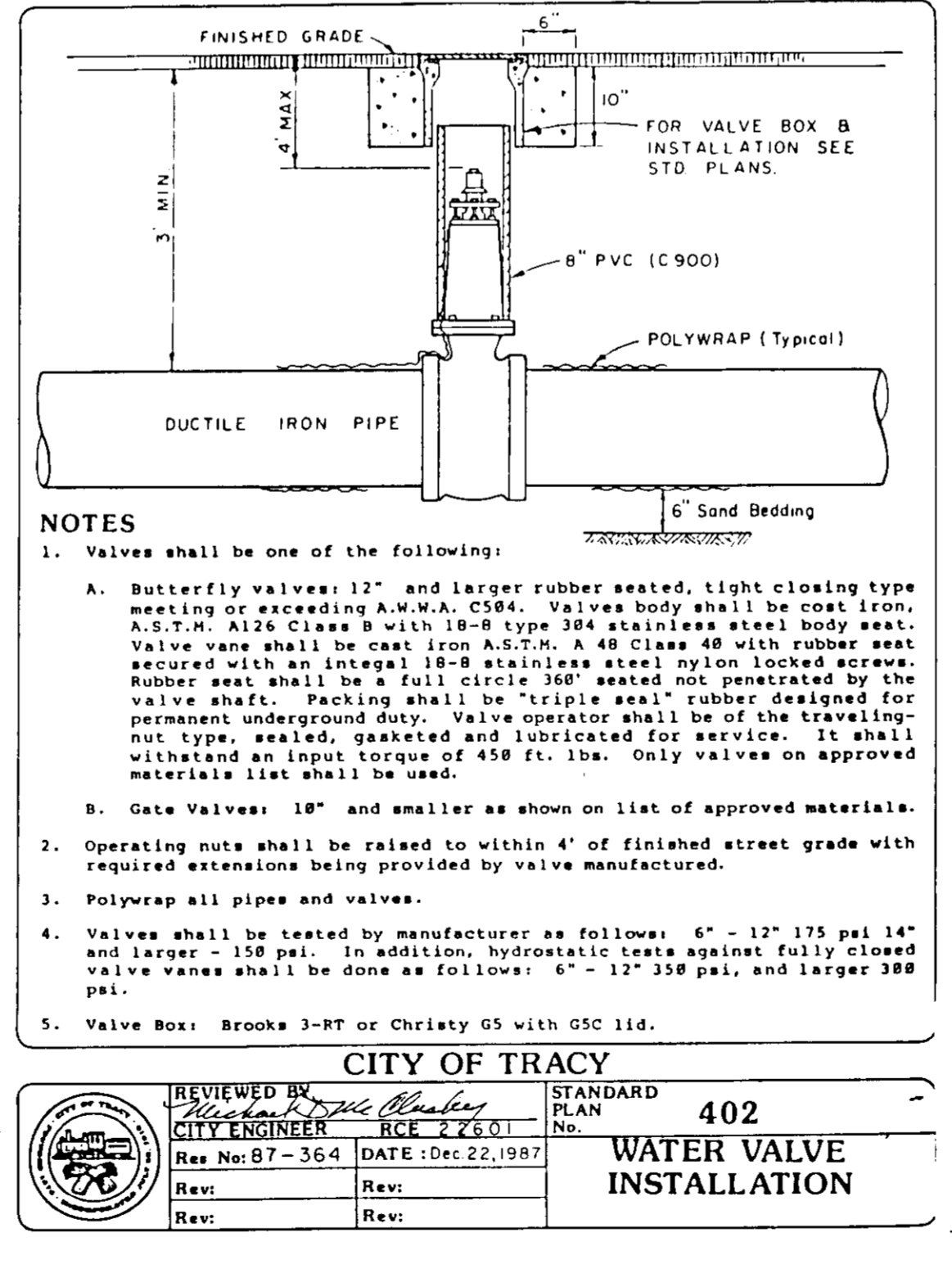
NOTES:  
1. ALL WORK MUST COMPLY WITH THE GEOTECHNICAL REPORT PREPARED BY BERLOGAR GEOTECHNICAL CONSULTANTS FOR THIS PROJECT ON FILE AT THE CITY OF TRACY OFFICE.



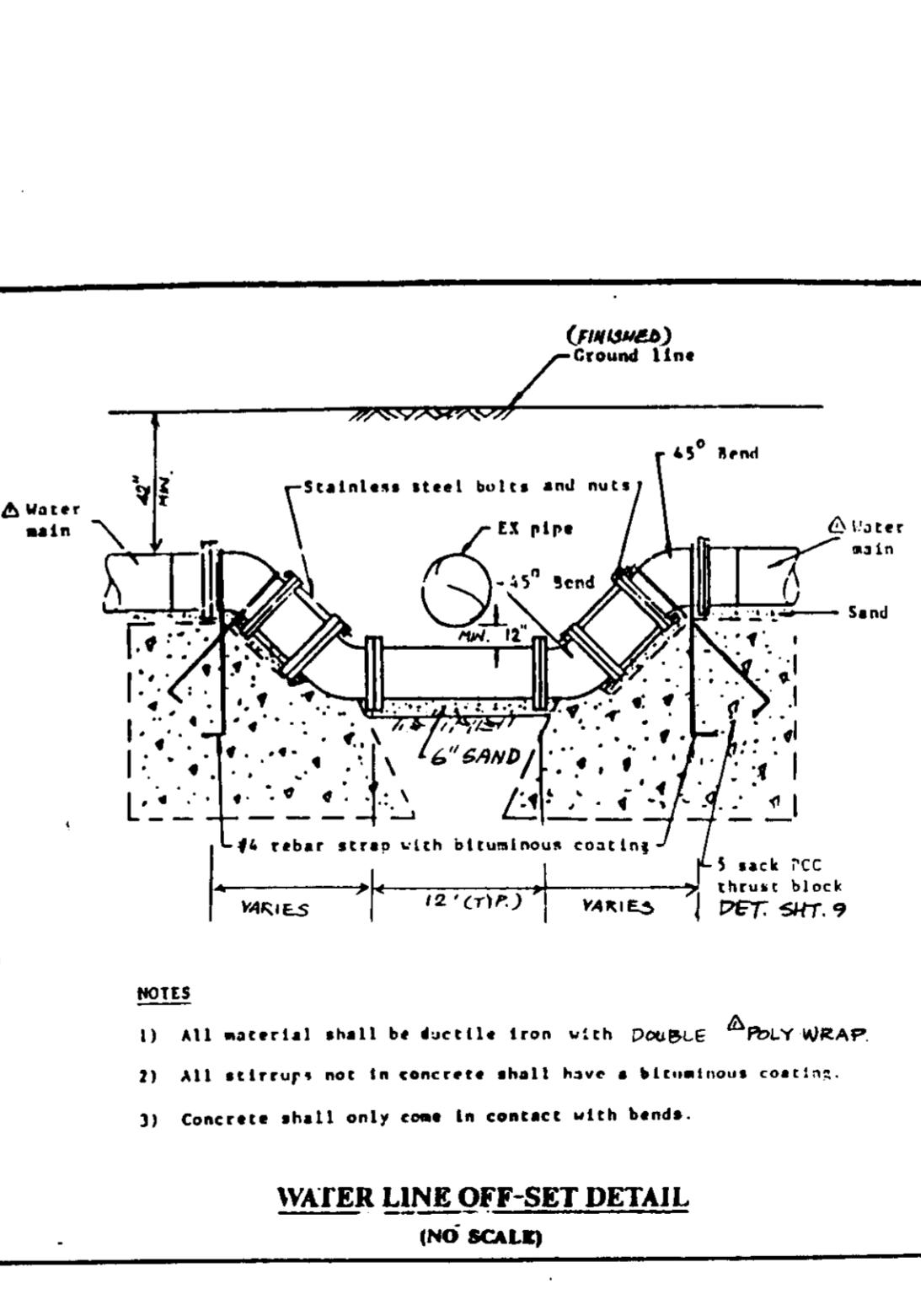
CITY OF TRACY	
REVIEWED BY CITY ENGINEER Res No: 87-364 DATE: Dec 22, 1987	STANDARD PLAN No. 309 MANHOLE ASSEMBLY



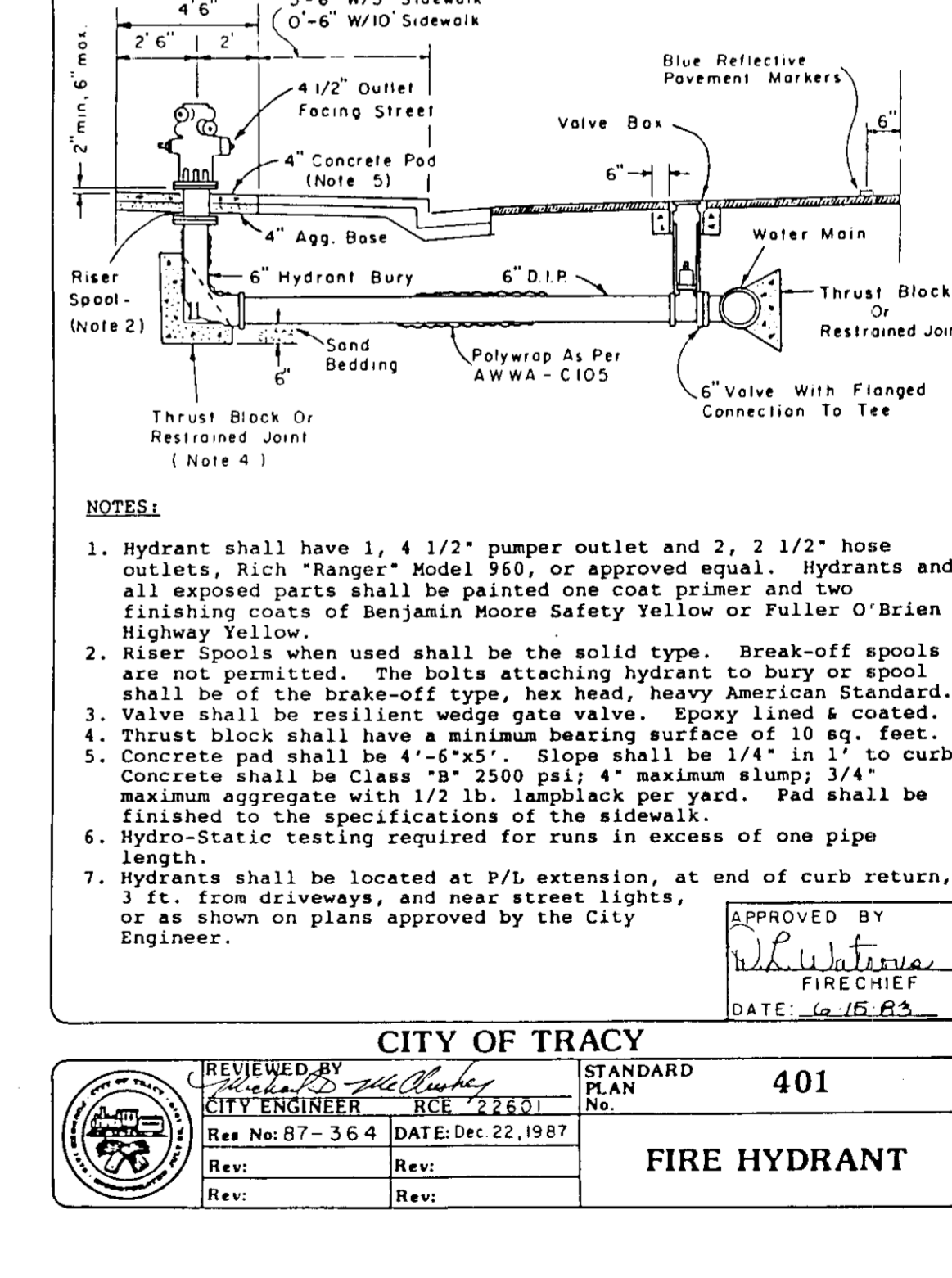
CITY OF TRACY	
REVIEWED BY CITY ENGINEER Res No: 87-364 DATE: Dec 22, 1987	STANDARD PLAN No. 309 MANHOLE ASSEMBLY



CITY OF TRACY	
REVIEWED BY CITY ENGINEER Res No: 87-364 DATE: Dec 22, 1987	STANDARD PLAN No. 402 WATER VALVE INSTALLATION



CITY OF TRACY	
REVIEWED BY CITY ENGINEER Res No: 87-364 DATE: Dec 22, 1987	STANDARD PLAN No. 401 WATER LINE OFF-SET DETAIL (NO SCALE)



CITY OF TRACY	
REVIEWED BY CITY ENGINEER Res No: 87-364 DATE: Dec 22, 1987	STANDARD PLAN No. 401 FIRE HYDRANT

PATTERSON PASS BUSINESS CENTER  
 SANITARY SEWER AND WATER SYSTEMS - PHASE I  
 SECTION AND DETAIL SHEET  
 FOR: CITY OF TRACY  
 SAN JOAQUIN COUNTY, CALIFORNIA  
 BISSSELL & KARN  
 ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS  
 5890 STONERIDGE DRIVE, PLEASANTON, CALIFORNIA 94588-2702 (415) 463-0660  
 GREINER ENGINEERING COMPANY  
 DATE: 8/26/91  
 SHEET NO. 3 OF 13 SHEETS  
 JOB NO. N0792.10  
 FILE NO.

**STANDARD GENERAL NOTES**

- THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER, SAN JOAQUIN COUNTY, CITY OF TRACY AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ENGINEER.
- EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, SHORING AND BRACING OR EQUIVALENT METHOD, FOR THE PROTECTION OF LIFE, OR LIMB, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.
- THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS FAILURE TO DO SO.
- THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY IN ACCORDANCE WITH THE CALTRANS MANUAL OF TRAFFIC CONTROLS.
- THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE.
- ANY EXTRA CONSTRUCTION STAKING NECESSITATED SOLELY BY THE CONTRACTOR'S NEGLIGENCE WILL BE CHARGED TO THE CONTRACTOR ON A TIME AND MATERIAL BASIS, AND PAID FOR BY THE CONTRACTOR.
- STATIONING HEREON IS ALONG STREET CENTERLINE UNLESS OTHERWISE SHOWN OR INDICATED.
- ALL RETURN RADII AND CURB DATA ARE TO FACE OF CURB.
- ALL QUANTITIES AND PAY ITEMS ARE AND WILL BE BASED ON HORIZONTAL MEASUREMENTS.
- LENGTHS OF SANITARY SEWERS AND STORM DRAINS ARE HORIZONTAL DISTANCES FROM CENTER TO CENTER OF STRUCTURES, ROUNDED OFF TO THE NEAREST FOOT.
- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 2 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL UNDERGROUND SERVICE ALERT (U.S.A.) AT 800-642-2444. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED AND MERGED IN THE CONTRACT UNIT PRICE.
- ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE LOCAL AGENCY ENGINEER, AT THE CONTRACTOR'S SOLE EXPENSE.
- ANY RELOCATION OF PUBLIC UTILITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE UTILITY COMPANY INCLUDING FEES, BONDS, PERMITS AND WORKING CONDITIONS, ETC. THIS WORK SHALL BE DONE AT NO EXPENSE TO THE UTILITY COMPANY. THE OWNER SHALL PAY THE COST OF ALL SUCH RELOCATION WORK INCLUDING FEES, BONDS, PERMITS, ETC.
- IF ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER EXCAVATION, EARTHWORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.
- BISSELL & KARN, INC. DOES NOT SPECIFY NOR RECOMMEND THE USE OR INSTALLATION OF ANY MATERIAL OR EQUIPMENT WHICH IS MADE FROM, OR WHICH CONTAINS ASBESTOS FOR USE IN THE CONSTRUCTION OF THESE IMPROVEMENTS. ANY PARTY INSTALLING OR USING SUCH MATERIALS OR EQUIPMENT SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES, DAMAGES, OR LIABILITIES, OF ANY KIND, CAUSED BY THE USE OF SUCH MATERIALS OR EQUIPMENT. THE PROVISIONS OF THIS NOTE SHALL APPLY UNLESS THEY ARE EXPRESSLY WAIVED IN WRITING BY BISSELL & KARN, INC.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT BISSELL & KARN, INC. AT (415) 463-0660 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

**PROJECT GENERAL NOTES**

- OWNER: KING & LYONS  
4675 FREMONT BLVD., SUITE 201  
FREMONT, CA 94538  
(415) 656-1900
- SOIL ENGINEER: BERLOGAR GEOTECHNICAL  
5587 SUNOL PLACE  
PLEASANTON, CA 94566  
(415) 484-0220
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS ON THE CITY OF TRACY, AND THE APPLICABLE PROVISIONS OF THE LATEST EDITION CALTRANS STANDARD SPECIFICATIONS AND SAN JOAQUIN COUNTY STANDARD SPECIFICATIONS. CONTACT THE CITY OF TRACY PUBLIC WORKS CONSTRUCTION INSPECTION AT LEAST 48 HOURS PRIOR TO THE START OF ANY WORK TO ARRANGE FOR INSPECTION.
- ENGINEER SHALL MEAN THE CITY ENGINEER OR HIS AUTHORIZED AGENT ACTING WITHIN THE SCOPE OF HIS AUTHORITY.
- AN ENCROACHMENT PERMIT FROM SAN JOAQUIN COUNTY IS REQUIRED FOR ALL WORK WITHIN THE COUNTY ROAD RIGHTS-OF-WAY.
- ALL REVISIONS TO THIS PLAN MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS, STAMPED AND DISTRIBUTED BY THE CITY OF TRACY PRIOR TO ACCEPTANCE OF THE WORK AS COMPLETED.
- ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL AGENCY ENGINEER.
- CONSTRUCTION AND GRADING OPERATIONS SHALL BE LIMITED TO WEEKDAYS (MONDAY THROUGH FRIDAY) 7:30 A.M. TO 4:30 P.M. UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER. DUST CONTROL MEASURES AS APPROVED BY THE DIRECTOR OF PUBIC WORKS IN ACCORDANCE WITH THE CITY'S DUST CONTROL ORDINANCE, SHALL BE FOLLOWED AT ALL TIMES.
- APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS, AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
- ALL NEW UTILITY DISTRIBUTION SERVICES SHALL BE PLACED UNDERGROUND.
- COMPACTED FILL MINIMUM DENSITY REQUIREMENTS IN ACCORDANCE WITH SOILS REPORT, BUT USING ASTM D-1557 AS MAXIMUM DENSITY CRITERIA.
- THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE CITY ENGINEER. ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED BY A LICENSED CIVIL ENGINEER AUTHORIZED TO DO SURVEYING OR SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY BISSELL & KARN, INC. TWO (2) WORKING DAYS PRIOR TO THE NEED FOR CONSTRUCTION SURVEY STAKES. PHONE (415) 483-2170, ATTN: ELROY RAKSTAD.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE CITY'S INSPECTOR, AND BISSELL & KARN, INC. (THE DESIGN ENGINEER) UPON DISCOVERY OF ANY FIELD CONFLICTS.
- ALL PIPE GRADES SHOWN AS FLOW LINE ELEVATIONS, UNLESS OTHERWISE NOTED ON PLAN.
- ALL INFORMATION ON FUTURE IMPROVEMENTS IS BASED UPON PLANS FOR ROADWAY IMPROVEMENTS PREPARED BY MAJORS ENGINEERING DATED MAY 3, 1991. THESE FUTURE IMPROVEMENTS SHALL OCCUR CONCURRENTLY WITH THESE PLANS.
- TESTING:
  - ALL INDEPENDENT LABORATORY INSPECTION CALLED FOR BY THE CITY ENGINEER WILL BE PAID FOR BY THE DEVELOPER OR CONTRACTOR.
  - ROAD SUB-BASE AND TRENCH BACKFILL SHALL BE PERFORMED BY A SOILS LAB CONTRACTING WITH THE CITY OF TRACY. DEVELOPER/CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE CITY CONTRACTED TESTING LAB FOR TEST FEES DIRECTLY TO THE LAB ON A MONTHLY BASIS.
  - TESTS FOR R-VALUES ARE REQUIRED PRIOR TO THE INSTALLATION OF BASE ROCK.
  - A MINIMUM OF 48 HOURS NOTICE IS REQUIRED TO SCHEDULE ALL SOILS TESTING SERVICES.

**CONSTRUCTION NOTES**

**GENERAL:**

- PRIOR TO COMMENCEMENT OF ANY WORK ON ADJACENT PRIVATE PROPERTY, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM AFFECTED PROPERTY OWNERS.
- THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNMENT ORDINANCES AND REGULATION RELATING TO THE WORK SHOWN ON THIS PLAN.
- HAUL ROUTE, CALL THE CITY OF TRACY FOR THEIR REQUIREMENTS (209) 836-4420.
- CONTRACTOR TO NOTIFY THE CITY OF TRACY PUBLIC WORKS DEPARTMENT, FORTH-EIGHT (48) HOURS OR MORE BEFORE CONSTRUCTION BEGINS.
- PRIOR TO PLACING CURB, SIDEWALK, ASPHALT CONCRETE, OR BASE MATERIAL, ALL UNDERGROUND UTILITIES WITHIN THE RIGHT OF WAY SHALL BE INSTALLED, BACKFILL COMPLETED, AND THE PUBLIC WORKS DEPARTMENT'S CONSTRUCTION DIVISION NOTIFIED BY EACH OF THE UTILITY COMPANIES HAVING FACILITIES WITHIN THE WORK AREA, THAT THE UTILITY INSTALLATION HAS SATISFACTORILY PASSED ACCEPTANCE TESTS.

**TRENCHING AND BACKFILL:**

- UNDERGROUND UTILITY TRENCH BACKFILL IS REQUIRED TO BE TESTED.
- ALL TRENCH EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CITY OF TRACY STANDARD NO. 501 AND 502.
- ALL TRENCH EXCAVATION OVER FIVE FEET IN DEPTH SHALL BE SHORED IN ACCORDANCE WITH CAL-OSHA "CONSTRUCTION SAFETY ORDERS" CURRENT EDITION. CONTRACTOR MUST HAVE VALID TRENCH SHORING PERMIT ISSUED BY CAL-OSHA.

**SANITARY SEWER:**

- NEW SEWER SHALL NOT BE CONNECTED INTO EXISTING CITY MAINS WITHOUT THE CITY ENGINEER'S APPROVAL.
- ALL SANITARY SEWER LATERALS AND MAINS THAT CROSS OVER WATER MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARD NO. 506. WHENEVER POSSIBLE SANITARY SEWER LATERALS TO CROSS UNDER WATER MAIN.
- ALL 21" SANITARY SEWER PIPE SHALL BE CHANGED TO 18" PIPE AND BE OF THE MATERIAL SPECIFIED IN THE ATTACHED SPECIFICATIONS. ALL FLOW LINES AND INVERTS REMAIN AS SHOWN ON PLANS.
- ALL 8" SANITARY SEWER PIPE SHALL BE AS SPECIFIED ON THE ATTACHED SPECIFICATIONS.
- ALL 12" SANITARY SEWER PIPE SHALL BE AS SPECIFIED ON THE ATTACHED SPECIFICATIONS.
- ALL SANITARY SEWER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF TRACY STANDARDS AND SPECIFICATIONS.
- ALL SANITARY SEWER MAINS SHALL BE TELEVISION INSPECTED (TAPES SHALL BE GIVEN TO THE CITY OF TRACY). FLUSHED WITH AN APPROVED SEWER BALL AND PASS A LEAKAGE TEST IN CONFORMANCE WITH CITY OF TRACY STANDARD SPECIFICATIONS PRIOR TO ACCEPTANCE BY THE CITY. ALL TEST SHALL BE PERFORMED AFTER THE COMPACTION FOR STREET BASE ROCK AND PRIOR TO PAVING.

**WATER**

- ALL WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF TRACY STANDARDS.
- ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 42" TO FINISHED GRADE.
- ALL SANITARY SEWER LATERALS AND MAINS THAT CROSS OVER WATER MAINS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CITY OF TRACY STANDARD NO. 506. WHENEVER POSSIBLE SANITARY SEWER LATERALS TO CROSS UNDER WATER MAIN.
- CONTRACTOR SHALL PROVIDE DUST CONTROL AT ALL TIME. RECLAIMED WATER FROM CITY'S WASTE WATER TREATMENT PLANT MAY BE AVAILABLE FOR DUST CONTROL. CONTRACTOR SHALL COORDINATE WITH CITY'S UTILITY DIVISION FOR ANY RECLAIMED WATER. CONTRACTOR SHALL PROVIDE SUFFICIENT TRUCKS FOR THIS ACTIVITY DURING ALL TIMES AND ALL TRUCKS SHALL CARRY RECLAIMED WATER SIGNS.
- ALL 24" WATER PIPE SHALL BE AS SPECIFIED ON THE ATTACHED SPECIFICATIONS.
- ALL WATER LINES SHALL BE PRESSURE TESTED, DISINFECTED, FLUSHED AND TESTED FOR BACTERIA IN CONFORMANCE WITH THE CITY OF TRACY STANDARD SPECIFICATIONS PRIOR TO FINAL ACCEPTANCE BY THE CITY.

**ROADWAY:**

- WHEN WIDENING THE PAVEMENT ON AN EXISTING ROAD, THE EXISTING PAVEMENT SHALL BE CUT TO NEAT LINE AND REMOVED BACK TO AN EXISTING ADEQUATE STRUCTURAL SECTION, OR TO THE ORIGINAL ROAD SECTION. AN EXPLORATORY TRENCH, OR POTHOLING, MAY BE REQUIRED TO DETERMINE THE LIMITS OF PAVEMENT REMOVAL.
- WHERE ABANDONED UNDERGROUND STRUCTURES ARE ENCOUNTERED IN THE STREET AREAS, REMOVE TO SUFFICIENT DEPTH TO ALLOW UNDERGROUND LINES TO CROSS. BACKFILL AND COMPACT DURING ROUGH GRADING. THE CITY INSPECTOR MAY REQUIRE FURTHER WORK TO BE DONE IF VISUAL INSPECTION INDICATES DURING CONSTRUCTION.
- ALL MANHOLES, VALVES AND MONUMENT FRAMES SHALL BE SET TO FINISH GRADE AFTER PAVING.
- WHERE ROAD WILL NOT BE RECONSTRUCTED, OVERLAY LANE WITH T.A.C. AS TRENCH WILL BE 7' WIDE AND WLL GRADE WILL BE LOST WHEN RESURFACING TRENCH.

8/29/91  
THOMAS E. BLANK  
REGISTERED CIVIL ENGINEER NO. 39888  
EXP. DATE DECEMBER 31/1993  
BISSELL & KARN, A GREENER ENGINEERING COMPANY

PATTERN: PASSIVE BUSINESS CENTER  
 SANITARY SEWER AND WATER SYSTEMS - PHASE I  
 CONSTRUCTION NOTES  
 SAN JOAQUIN COUNTY, CALIFORNIA  
 FOR: CITY OF TRACY

SCALE	NONE
DATE	8/29/91
BY	THOMAS E. BLANK
CHECKED BY	THOMAS E. BLANK
APPROVED BY	THOMAS E. BLANK
PROJECT NO.	10792.10
SHEET NO.	2
OF 13 SHEETS	
FILE NO.	

BISSELL & KARN, A GREENER ENGINEERING COMPANY  
 ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS  
 8000 STONERIDGE DRIVE, PLEASANTON, CALIFORNIA 94588-2702 (415) 463-0660

Ferguson

**BENCH MARK**

1. BRASS DISC AT NORTHEAST BRIDGE ABUTMENT AT S.P.R.R. CROSSING AT CALIFORNIA AQUEDUCT USC&GS. ELEV. = 251.197'.
2. BRASS DISC NEAR SCHULTE ROAD 0.3 MI. WEST OF LAMMERS ROAD. STAMPED FF EE 4-40 1981. SAN JOAQUIN COUNTY, ELEV. = 114.292'.

**BASIS OF BEARINGS:**

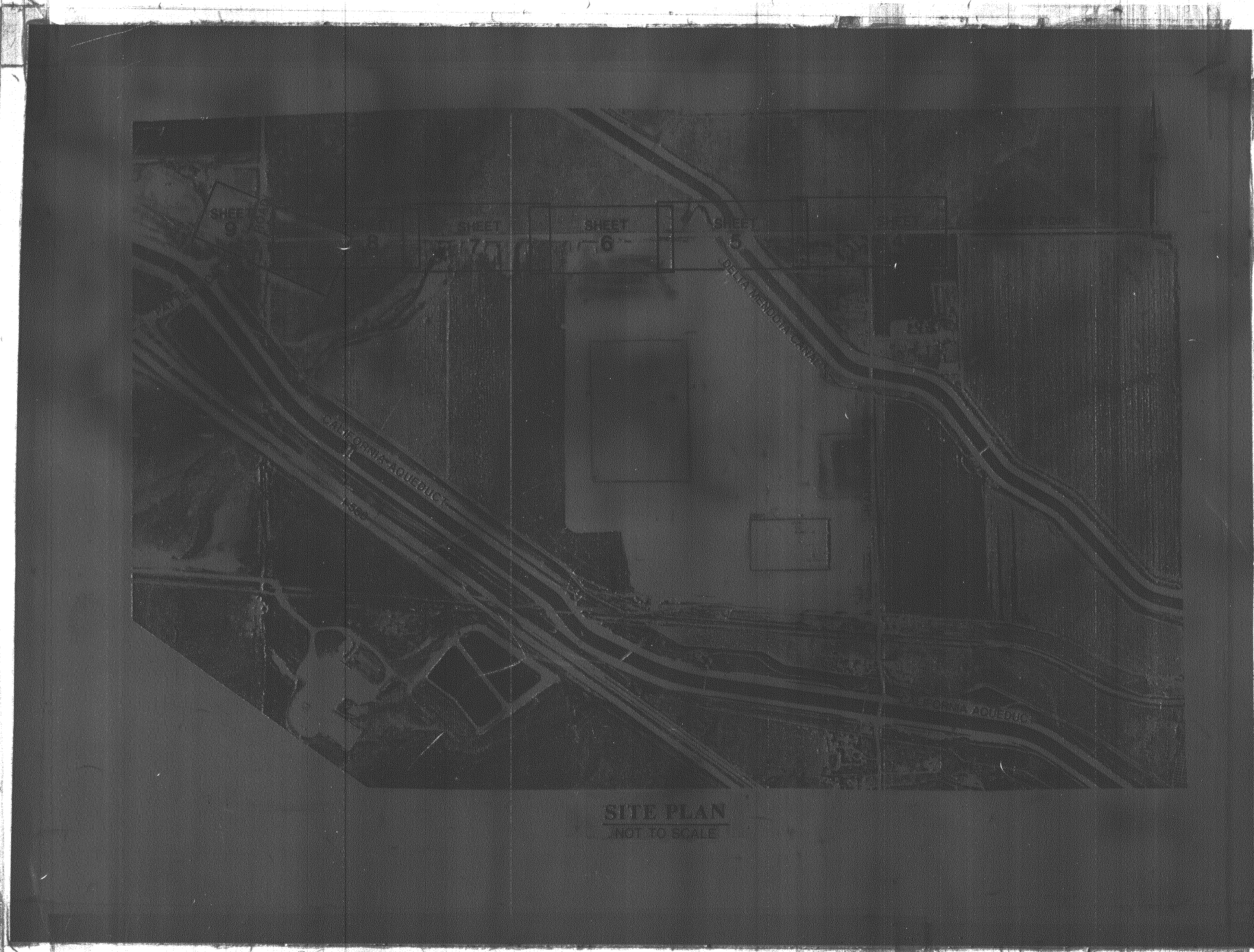
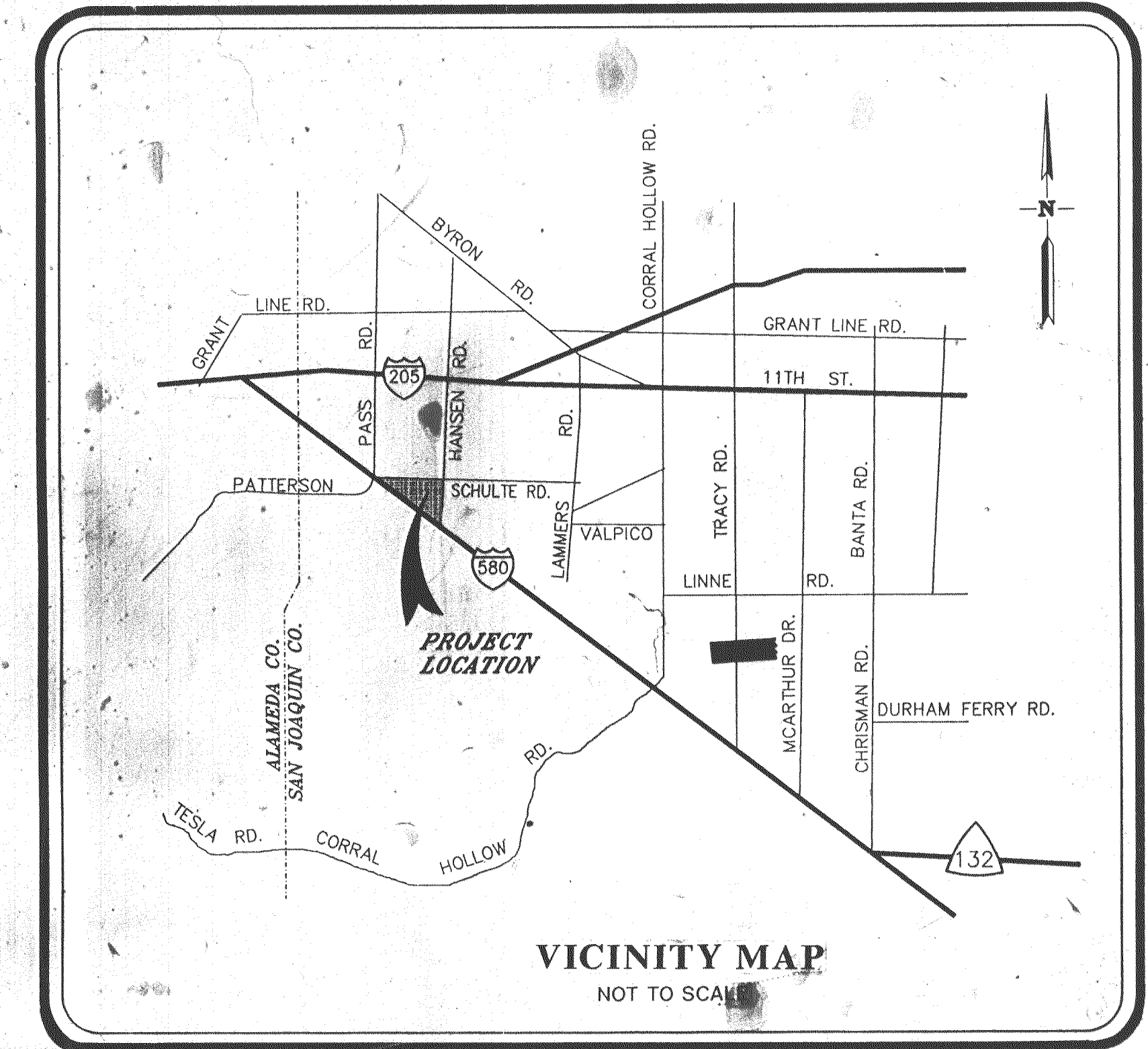
FOUND PK NAIL OVER SANDSTONE ROCK WITH CHISELED CROSS AT SOUTHWEST CORNER OF SECTION 27, T2S, R4E, M.D.B.&M. TO FOUND NAIL IN SANDSTONE ROCK WITH CHISELED CROSS AT SOUTH QUARTER CORNER OF SECTION 27, T2S, R4E, M.D.B.&M. TAKEN AS SOUTH 89°12'17" EAST. BEING ALSO THE CENTERLINE OF SCHULTE ROAD AS SHOWN ON THE RECORD OF SURVEY FILED IN BOOK 31 OF SURVEYS AT PAGE 104, SAN JOAQUIN COUNTY RECORDS.

# PATTERSON PASS BUSINESS CENTER

## SANITARY SEWER AND WATER SYSTEMS

### PHASE I

CITY OF TRACY  
SAN JOAQUIN COUNTY, CALIFORNIA



**LEGEND**

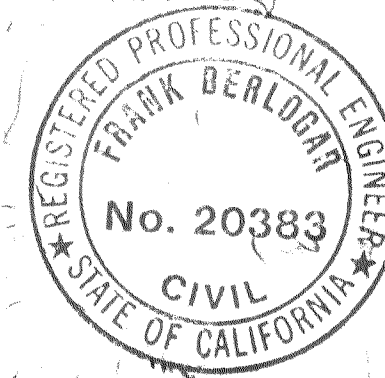
PROPOSED	DESCRIPTION	EXISTING
SD	STORM DRAIN	SD
SS	SANITARY SEWER	SS
W	WATER	W
G	GAS LINE	G
JT	JOINT TRENCH	JT
SWI	STORM WATER INLET (SWI)	SWI
MH	MANHOLE (MH)	MH
FH	FIRE HYDRANT	FH
BO	BLOW OFF	BO
SC	SANITARY CLEAN OUT	SC
WM	WATER METER	WM
WV	WATER VALVE	WV
SNS	STREET NAME SIGN	SNS
TS	TRAFFIC SIGN	TS
PP	POWER POLE/JOINT POLE	PP
GW	GUY WIRE	GW
M	MONUMENT	M
E	ELECTROLIER	E
F	FENCE	F
S	STRUCTURE	S
T	TREE	T
B	BARRICADE	B
H	HANDICAP RAMP	H
TR	TRACT BOUNDARY	TR
LP	LOT/PROPERTY LINE	LP
CL	CURB LINE	CL
PS	PCC SIDEWALK	PS

**INDEX OF SHEETS**

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3	SECTION AND DETAIL SHEET
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5	SCHULTE ROAD - STA. 350+00 to STA. 361+70
6	SCHULTE ROAD - STA. 361+70 to STA. 373+50
7	SCHULTE ROAD - STA. 373+50 to 385+50
8	SCHULTE ROAD - STA. 385+50 to STA. 395+00
9	SCHULTE ROAD - STA. 395+00 to STA. 400+00
10	SYSTEMS KEY MAP
11	TRENCH DETAILS
12	TRENCH DETAILS
13	SANITARY SEWER MANHOLEOPTIONS

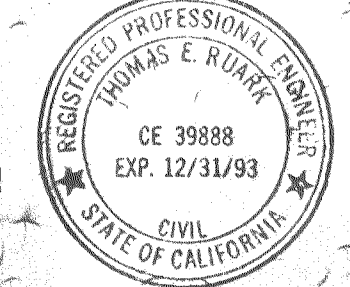
Su 2535

*Frank Berlogar* 8/27/91  
BERLOGAR GEOTECHNICAL CONSULTANTS  
EXP. 9/30/93



*Henry M. Hirata* 9/6/91  
HENRY M. HIRATA  
DIRECTOR OF PUBLIC WORKS  
SAN JOAQUIN COUNTY

*Richard D. Damm* 9/27/91  
City of Tracy  
City Engineer



*Thomas E. Rulark* 8/22/91  
THOMAS E. RULARK  
REGISTERED CIVIL ENGINEER NO. 39888  
EXP. DATE DECEMBER 31, 1993  
BISSELL & KARN A GREINER ENGINEERING COMPANY

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PATTERSON PASS BUSINESS CENTER  
SANITARY SEWER AND WATER SYSTEMS - PHASE I  
**TITLE SHEET**

FOR: CITY OF TRACY SAN JOAQUIN COUNTY, CALIFORNIA

DATE	BY	REVISIONS	AS COLLECTED
6/12/91	CK	BID SET	MAY 1991
6/19/91	CK	ADDENDUM 1 - SPEC CHG. 2044	DRAWN BY: C. R. BATH
		ADDENDUM 2	CHECKED BY: B. BRIDGES
			PROJ. MGR: T. RUIRK

SHEET NO. **1** OF 13 SHEETS  
JOB NO. N0792.10  
FILE NO.