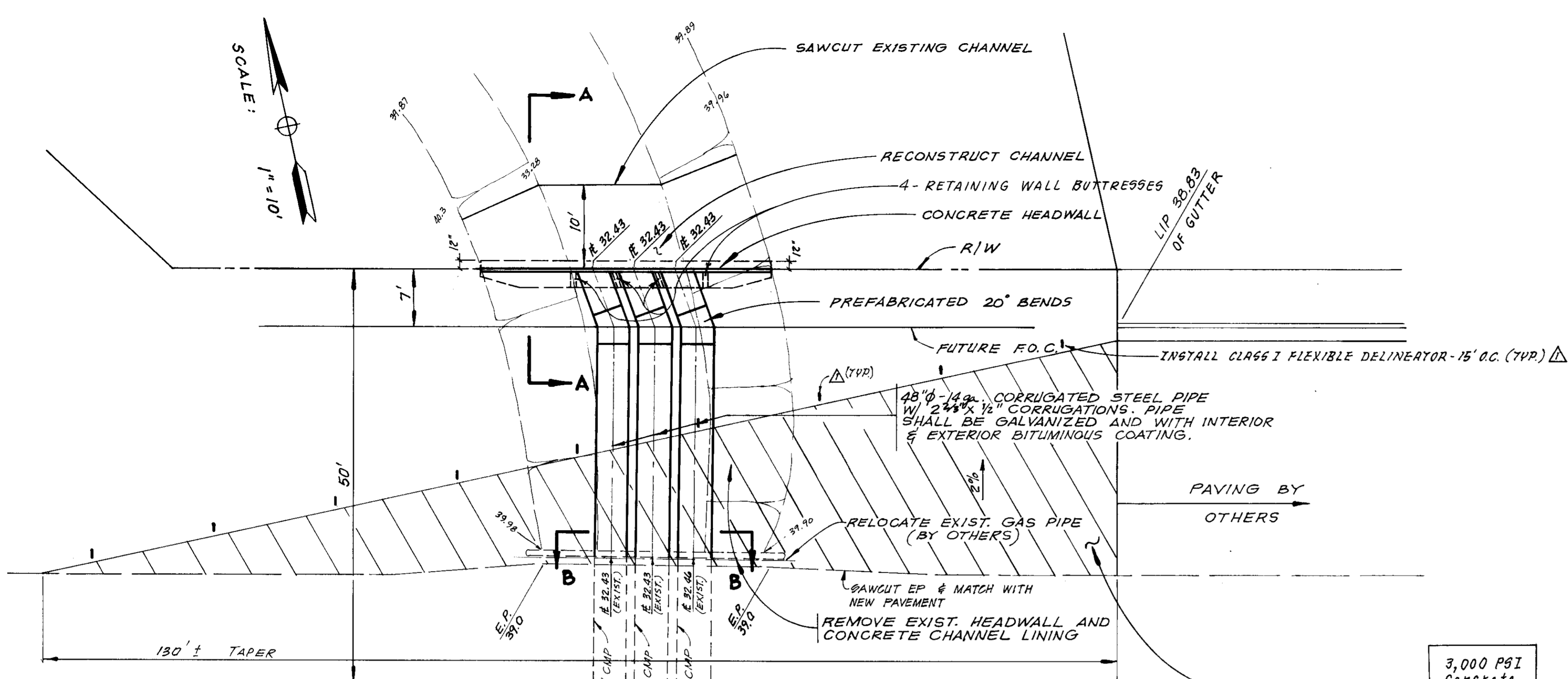
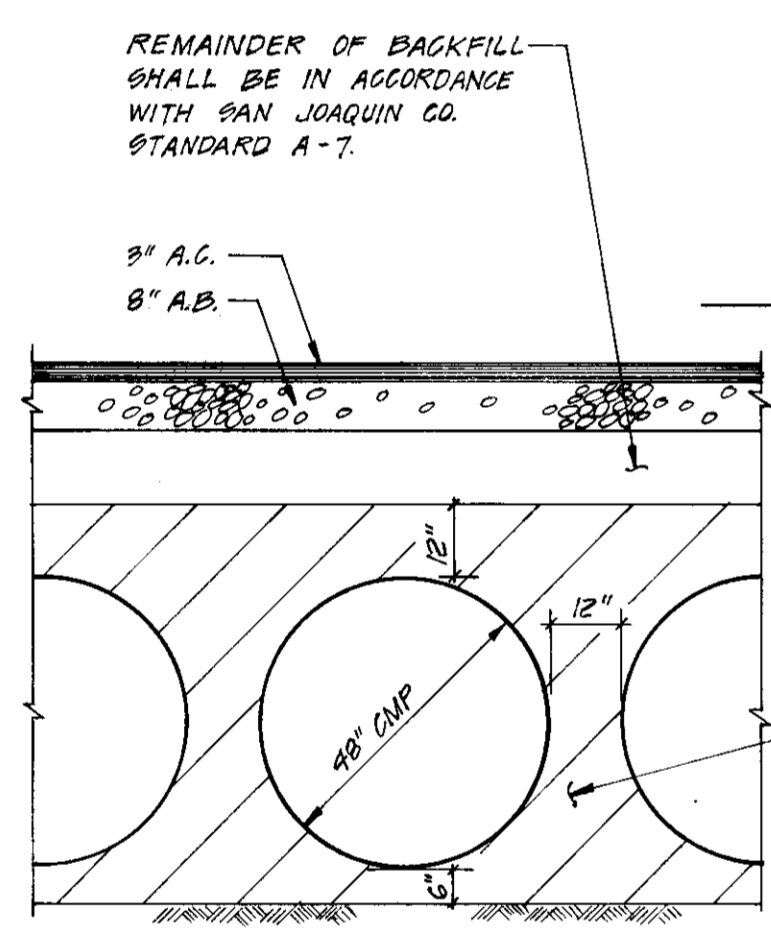


SU2508

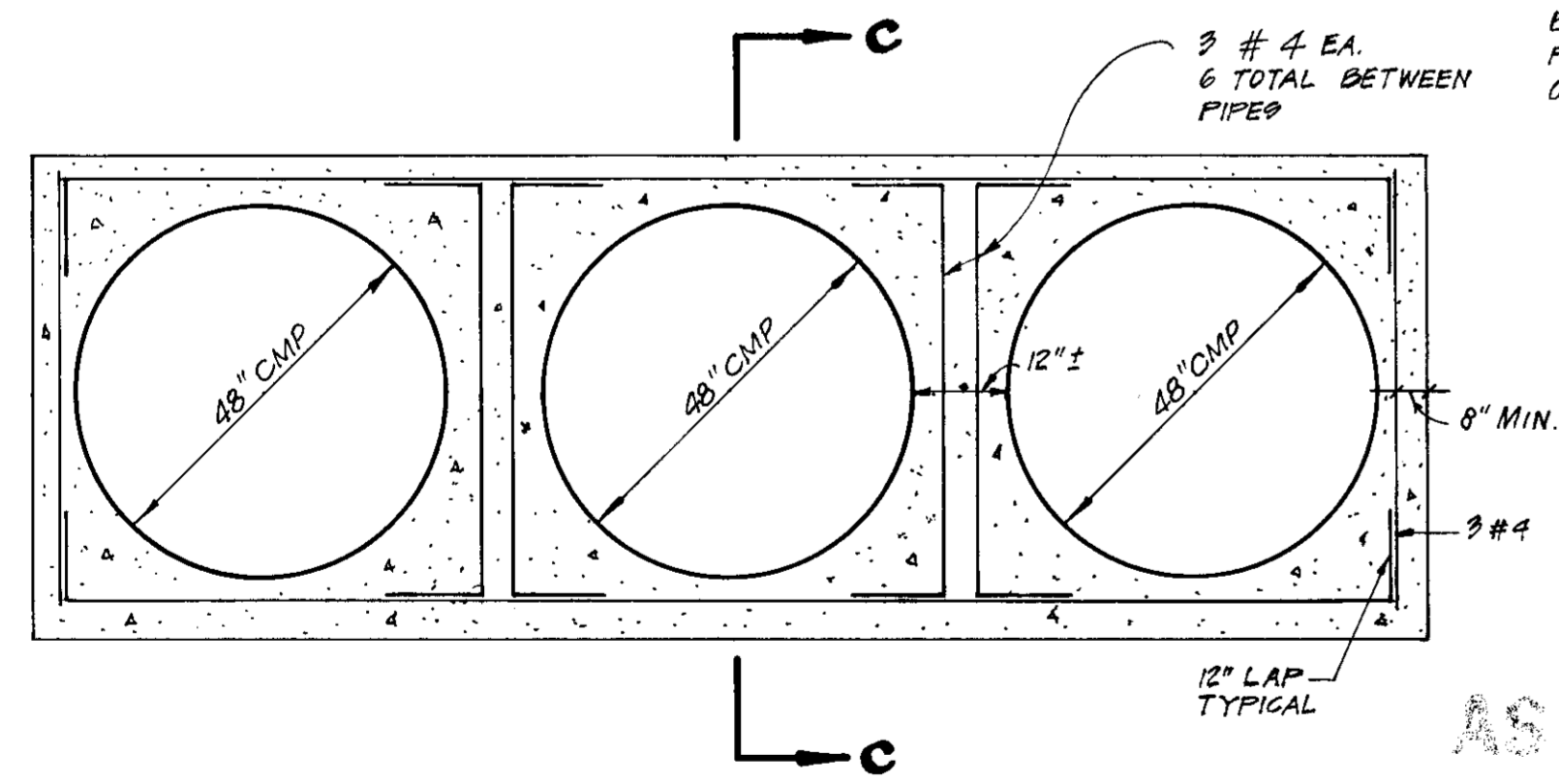


WOODBRIDGE ROAD

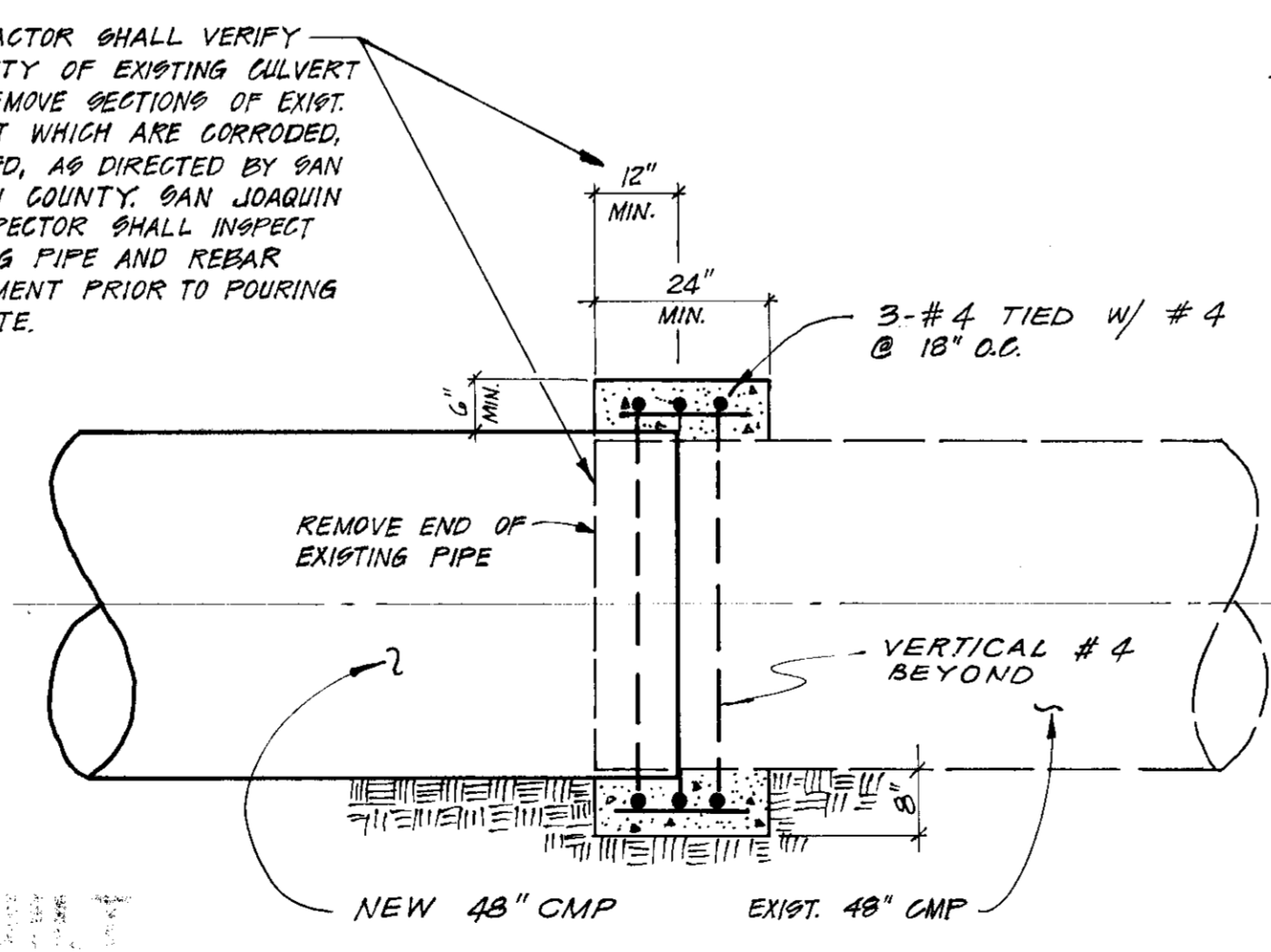
W.I.D. CANAL



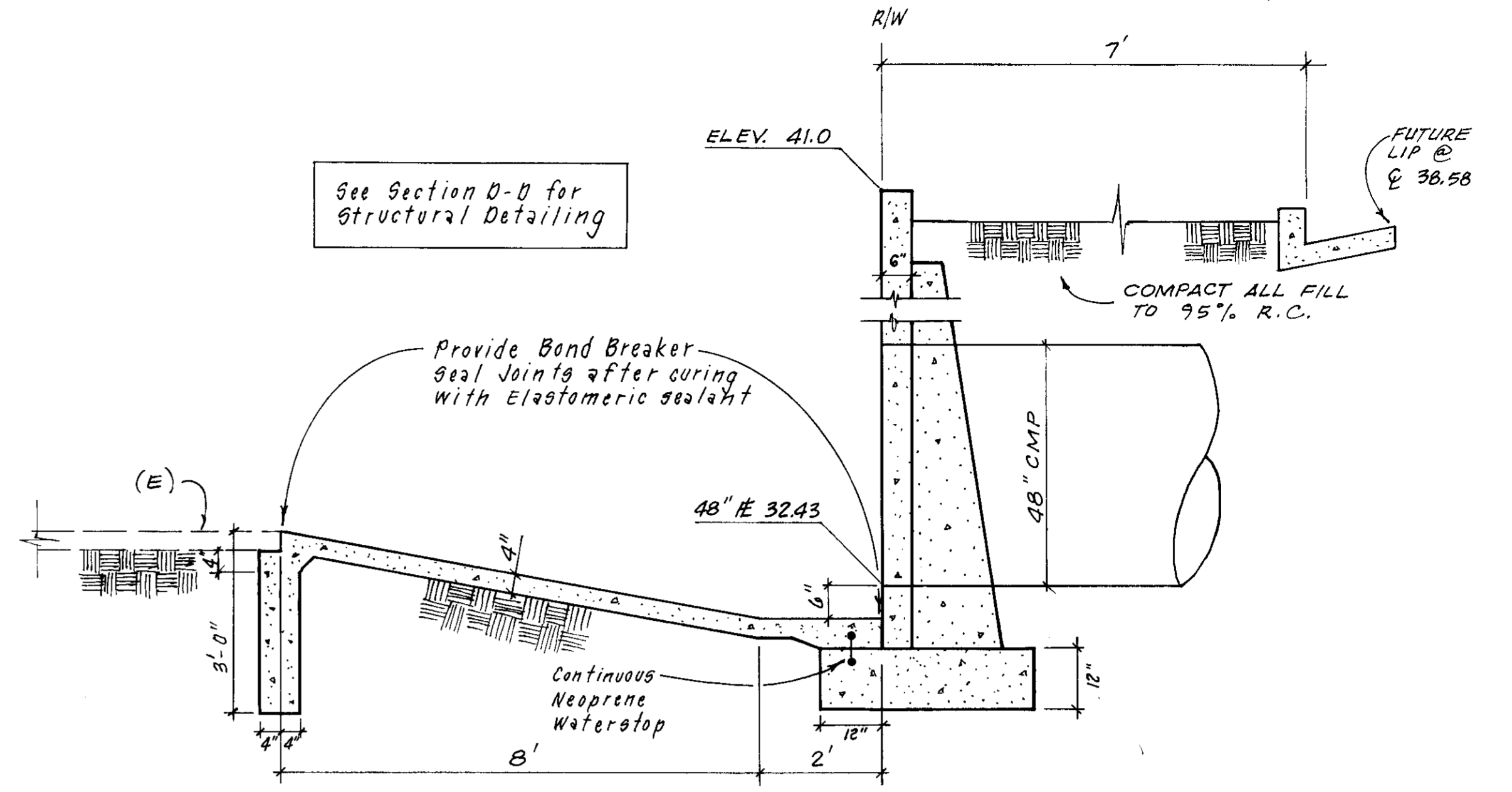
BACKFILL DETAIL NTS



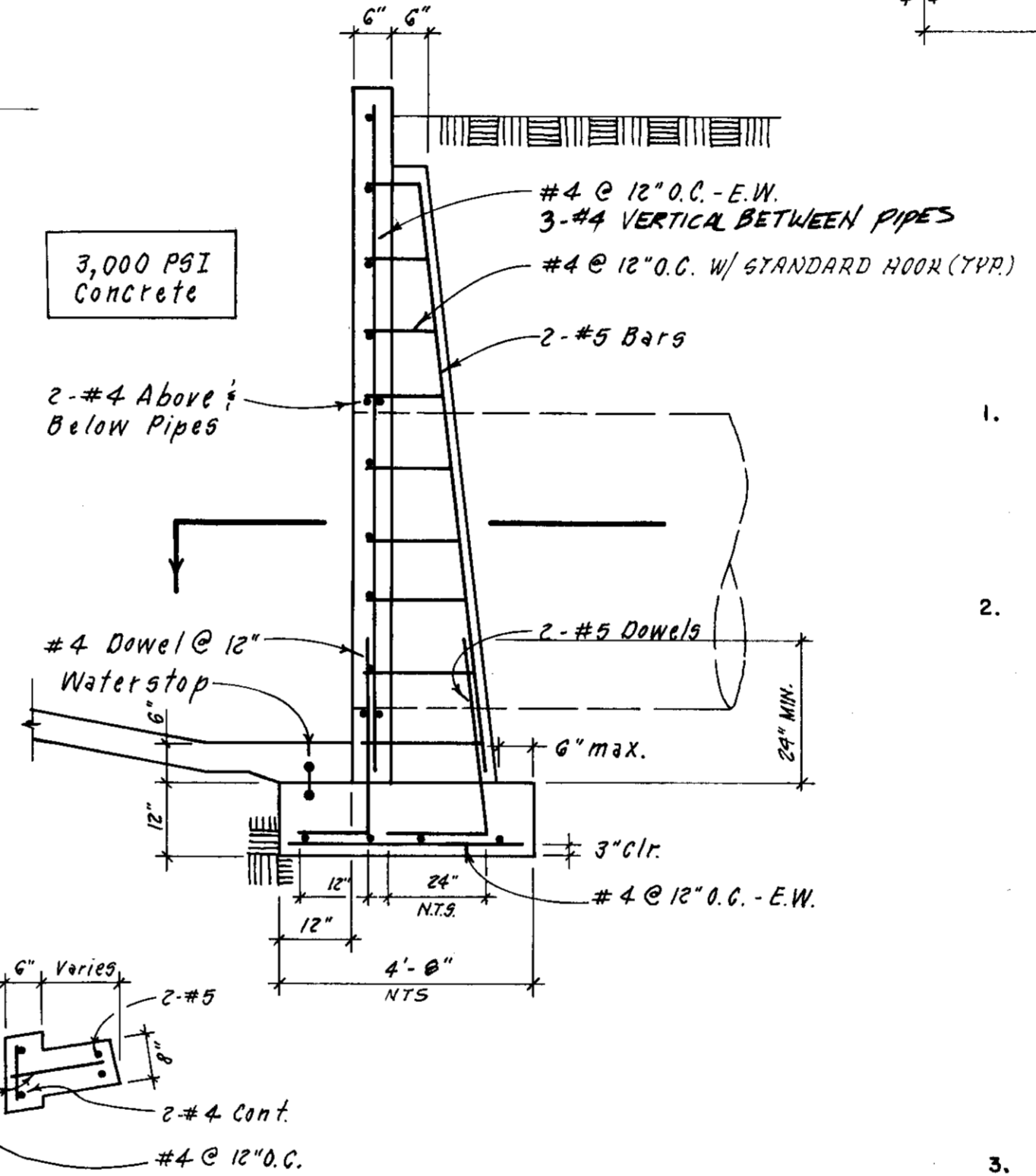
SECTION 'B-B' SCALE: 1\"/>



SECTION 'C-C' SCALE: 1\"/>



SECTION 'A-A' SCALE: 1\"/>



SECTION 'D-D' SCALE: 1\"/>

- GENERAL NOTES**
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - EARTHWORK:** THE CONTRACTOR SHALL EXCAVATE, FILL AND GRADE THE PROJECT SITE IN ORDER THAT SITE IMPROVEMENTS CAN BE CONSTRUCTED TO THE GRADES AND SLOPES SHOWN ON THESE PLANS. ALTHOUGH AN ATTEMPT HAS BEEN MADE TO BALANCE EARTH CUT AND FILL QUANTITIES, DUE TO THE APPROXIMATIONS OF EXISTING GRADES AND OTHER CONDITIONS NOT PRECISELY KNOWN, THE ENGINEER DOES NOT GUARANTEE THAT SUCH CUT AND FILL QUANTITIES WILL BALANCE. AS EARTHWORK OPERATIONS PROGRESS, MINOR ADJUSTMENTS IN GRADES MAY BE MADE IN ORDER TO BRING THE CUT AND FILL QUANTITIES MORE IN BALANCE, BUT SUCH CHANGES CAN ONLY BE MADE AFTER APPROVAL OF THE OWNER AND ENGINEER. THE COST OF SUCH ADJUSTMENTS SHALL BE PAID BY THE CONTRACTOR AND NO EXTRA PAYMENT WILL BE ALLOWED. ANY SURPLUS EARTH MATERIAL SHALL BE DISPOSED OF OFF THE SITE AT THE CONTRACTOR'S EXPENSE. ANY ADDITIONAL EARTH MATERIAL NEEDED TO COMPLETE THE ON-SITE GRADING SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR.

THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR SPREADING, COMPACTING AND GRADING IN VARIOUS AREAS OF THE SITE SURPLUS EARTH MATERIAL EXCAVATED FROM BUILDING FOUNDATIONS AND ALL UTILITY TRENCHES. AFTER ALL GRADING AND FILLING IS COMPLETED, ANY EXCESS OF SAID SURPLUS MATERIAL SHALL BE DEPOSITED OFF THE SITE AT THE CONTRACTOR'S EXPENSE.

ANY FILL PLACED SHALL BE PROPERLY COMPACTED AS REQUIRED BY THE PLANS AND THESE SPECIFICATIONS:
a. EARTH FILL TO ESTABLISH PAVED AREA SUBGRADE SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%.
 - EXISTING UNDERGROUND UTILITIES:** THE EXISTING UNDERGROUND UTILITIES SHOWN WERE PLOTTED FROM EXISTING AVAILABLE RECORDS OBTAINED FROM THE UTILITY COMPANIES. NEITHER THE OWNER NOR THE ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF SUCH RECORDS AND DO NOT GUARANTEE THAT ALL UNDERGROUND FACILITIES ARE LOCATED PRECISELY AS SHOWN. PRIOR TO BEGINNING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN WITH ALL UTILITY COMPANIES THE FIELD LOCATION OF THEIR UNDERGROUND FACILITIES. IF THE ACTUAL FIELD LOCATION OF AN UNDERGROUND UTILITY LINE SIGNIFICANTLY DIFFERS FROM THE LOCATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

PRIOR TO OPENING AN EXCAVATION, THE CONTRACTOR SHALL DETERMINE WHETHER UNDERGROUND INSTALLATION, I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND, IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.
 - EXCAVATION PERMIT:** THE CONTRACTOR SHALL OBTAIN THE NECESSARY EXCAVATION PERMIT(S) FROM THE STATE OF CALIF. DEPARTMENT OF INDUSTRIAL SAFETY FOR EXCAVATIONS OF FIVE (5') FEET OR MORE IN DEPTH.
 - AN EXISTING PRIVATE AND PUBLIC IMPROVEMENTS THAT ARE REMOVED OR DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER BY THE CONTRACTOR. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE COST OF VARIOUS ITEMS OF CONSTRUCTION AND NO EXTRA PAYMENT WILL BE MADE BY THE OWNER.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE SAN JOAQUIN COUNTY DESIGN STANDARDS AND STANDARD PLANS.

APPROVED:
SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS

Henry M. Wyrata DATE 10/29/83
HENRY M. WYRATA, DIRECTOR OF PUBLIC WORKS

ADD TRAFFIC MARKER DELINEATORS 8-19-91 B&P
PLAN CHECK REVISIONS 9-19-91 AUL

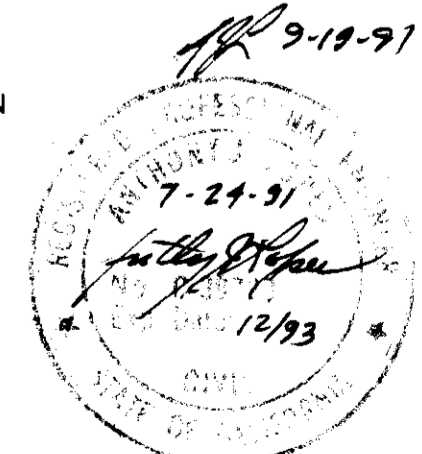
PERMISSION TO CONSTRUCT GRANTED
ANDY CHRISTENSEN, SECRETARY, W.I.D.

"WINDWOOD" SUBDIVISION UNIT NO. 1 JOB NO. 8888 SHEET 15 OF 15

WOODBRIDGE IRRIGATION DISTRICT
CULVERT EXTENSION & HEADWALL RECONSTRUCTION

As Shown
May '91

R.S.C.
A.J.L.
A.J.L.



Under separate bond - to be built in 1992

Grading Notes:

1. A grading permit shall be secured by the Contractor from the San Joaquin County Building Inspection Division.
2. The cost of the grading permit shall be reimbursed by the Owner as an extra.
3. All earthwork, grading and other construction per these plans shall be done in accordance with the Geotechnical Report prepared for "WINDWOOD SUBDIVISION" by Anderson & Associates, their file number S9118, dated May 8, 1991.
4. Import material will be required. Import fill shall be granular, nonexpansive soil, having a maximum plasticity index of 12, and a minimum R-value of 22.
5. Engineered fill (building pad and roadway subgrade) shall be placed in 6 inch maximum lifts, and compacted to a minimum of 90% of the maximum dry density.
6. The Contractor shall coordinate his work with Anderson & Associates to insure that adequate compaction tests are taken. The costs of re-tests shall be borne by the Contractor.
7. The Contractor shall submit the results of compaction tests for all building pad fill exceeding 6 inch depth to the San Joaquin County Building Inspection Department.
8. All subdivision grading shall conform to U.B.C. (1988) Chapter 29 and 70.

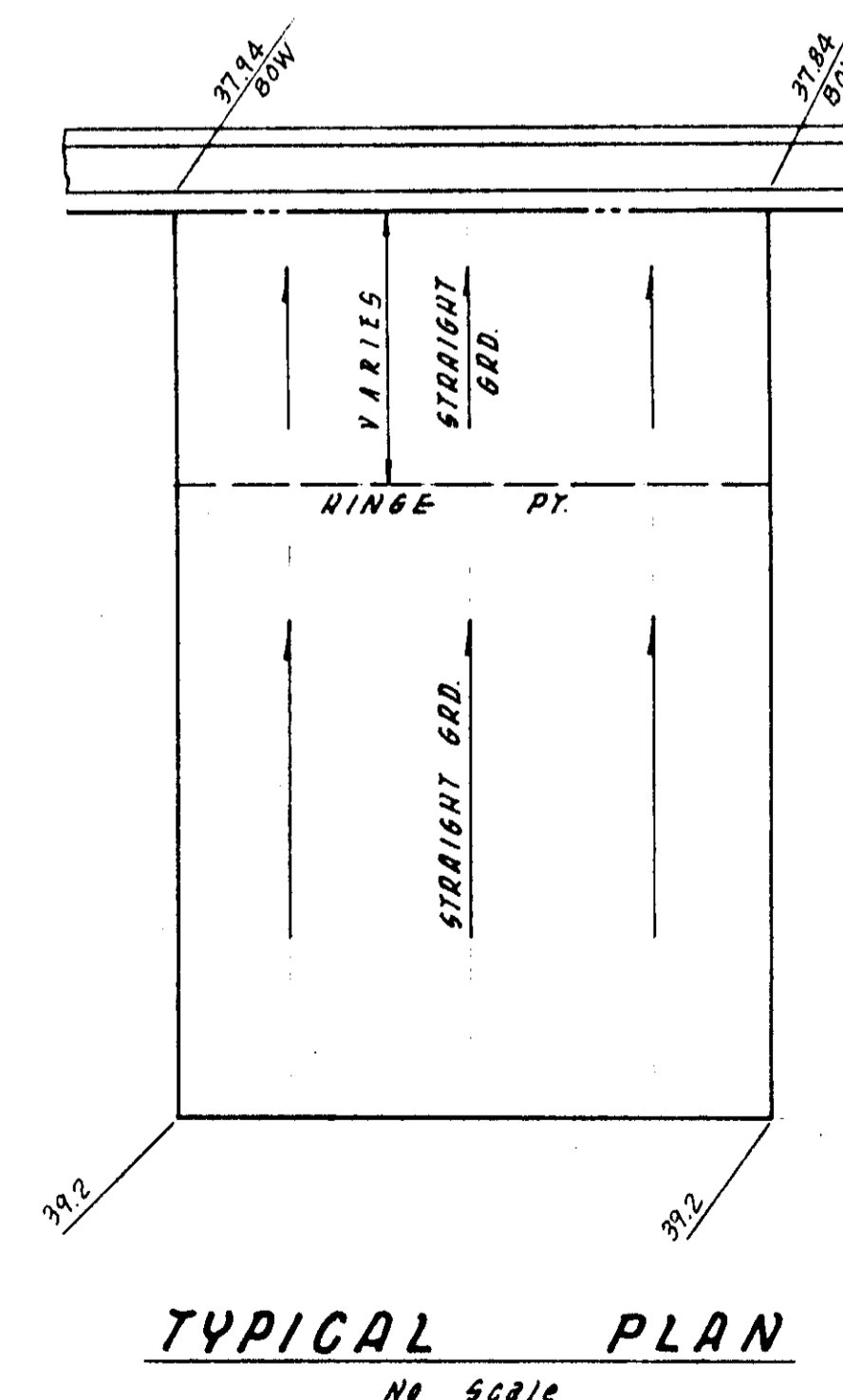
* Δ Lot fill exceeds 6"

FOR GRADING PERMIT DETERMINATION ONLY

EARTHWORK, UNIT 1

Roadway Excavation	9,330 C.Y.
Lot Excavation	570 C.Y.
Subtotal	9,900 C.Y.
20% Shrinkage	-1,980 C.Y.
Material Available	7,920 C.Y.
Roadway Fill	3,750 C.Y.
Lot Fill	18,370 C.Y.
Subtotal	22,120 C.Y.
Import	14,200 C.Y.

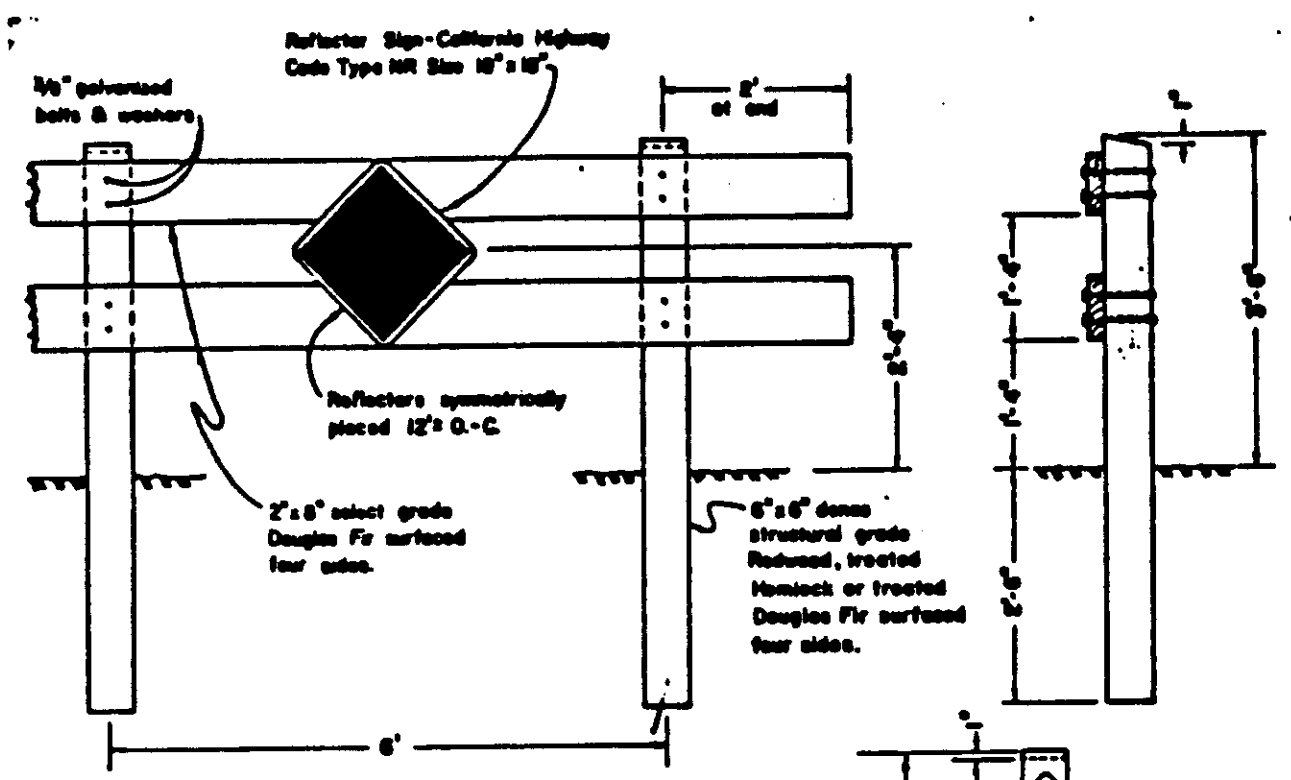
NOT TO BE USED FOR CONTRACT



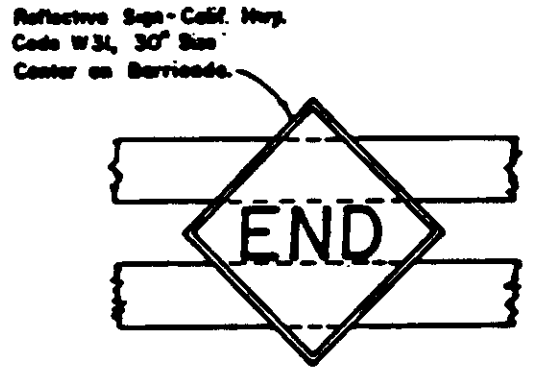
- LEGEND**
- STORM DRAIN LINE
 - STORM DRAIN MANHOLE
 - SIDE INLET CATCH BASIN
 - LP LOW POINT
 - HP HIGH POINT
 - EXIST. GROUND ELEVATION
 - FINISHED LOT ELEVATION
 - BACK OF SIDEWALK ELEVATION
 - SLOPE DIRECTION
 - MASONRY FENCE

SU 2509

NO.	DATE	REVISIONS	BY	DESIGN	DRAWN BY	APPROVED BY: Henry M. Hirata RCE No. 21258	BAUMBACH & PIAZZA CIVIL ENGINEERS SURVEYORS	GRADING PLAN	"WINDWOOD" SUBDIVISION UNIT NO. 1	SHEET 14 OF 15
Δ	7/26/91	See Sheet 1, 5, 410	T.P.				323 W. ELM ST. Lodi, CALIF. 95240 PH: 209-368-8818			JOB NO. 8888
						SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS				FILE NO.

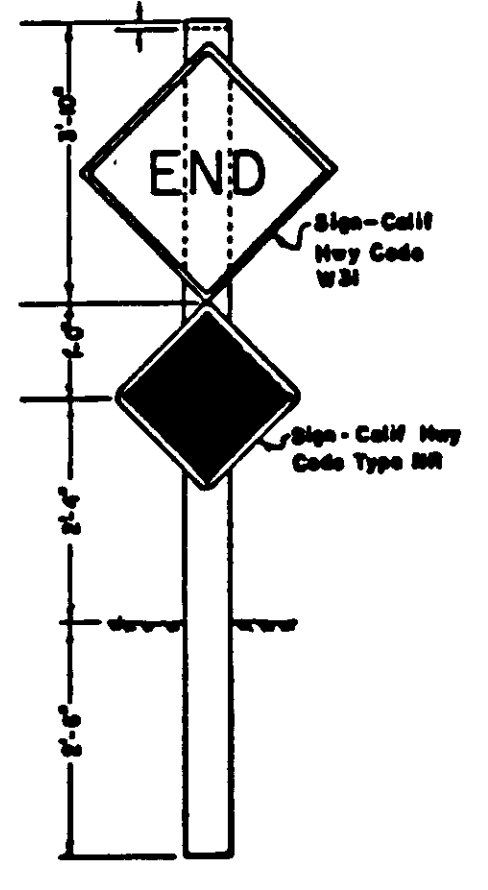


TYPE "A"



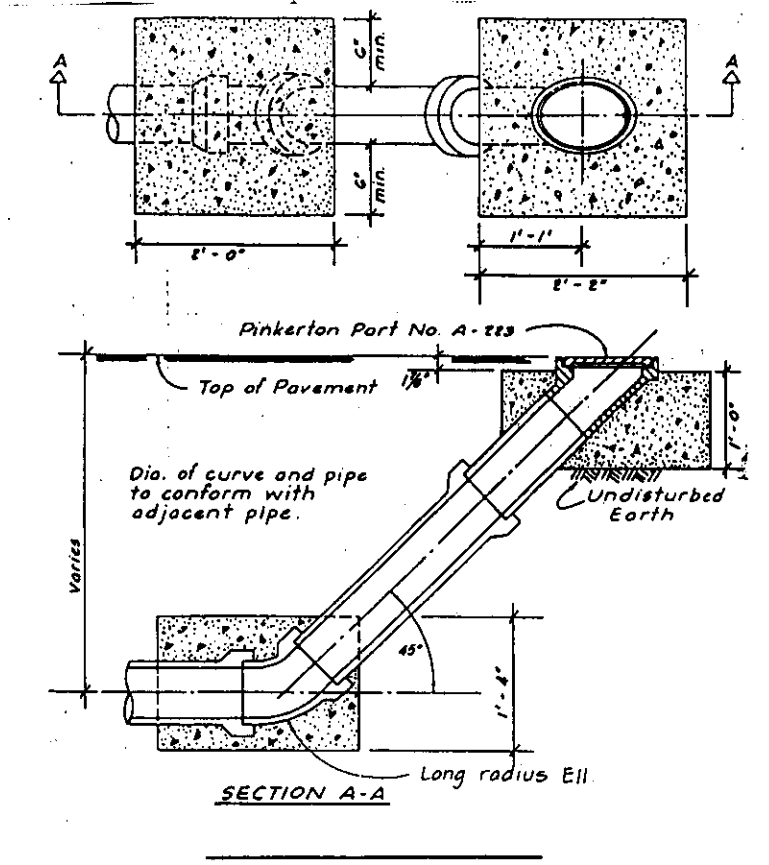
CENTER REFLECTOR FOR TYPE "A" BARRICADE

NOTES:
 1. Barricade to be set back on street 10'-0" from center of lot.
 2. Barricade to be painted white using 2 coats of "Enduro Alkyd" from In-Shell Chemical Co. a complete system.

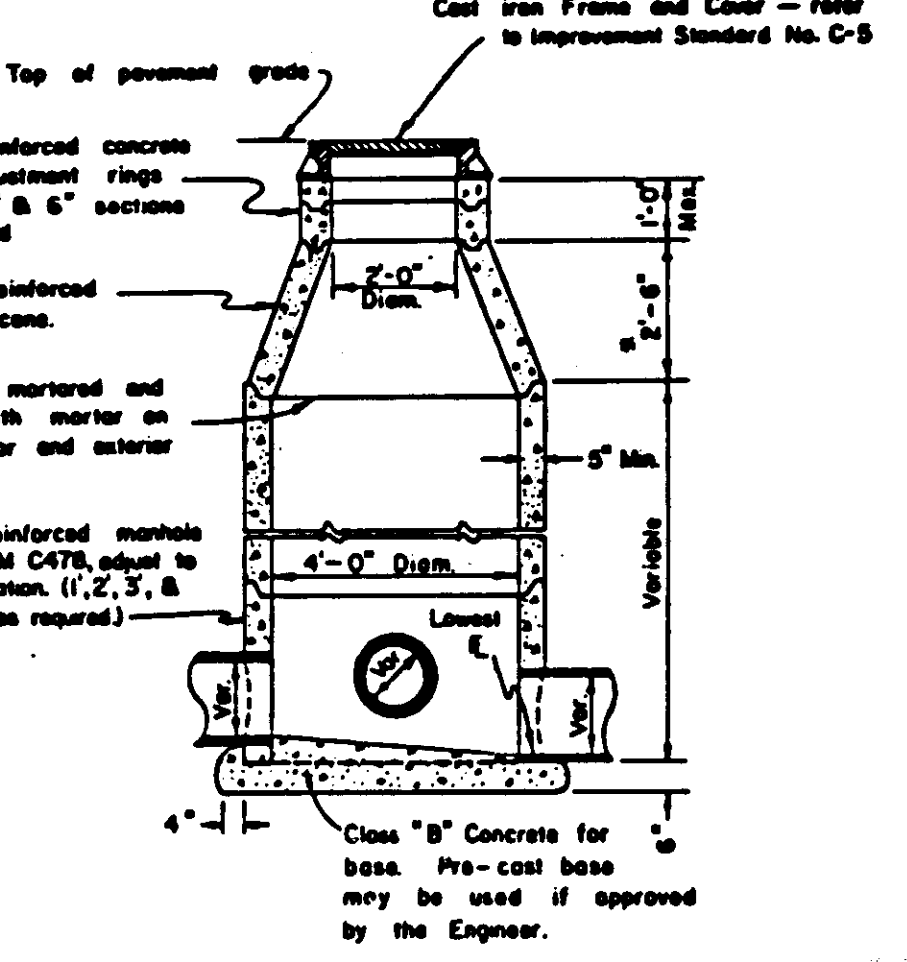


TYPE "B"

BARRICADES FOR TERMINATING STREETS

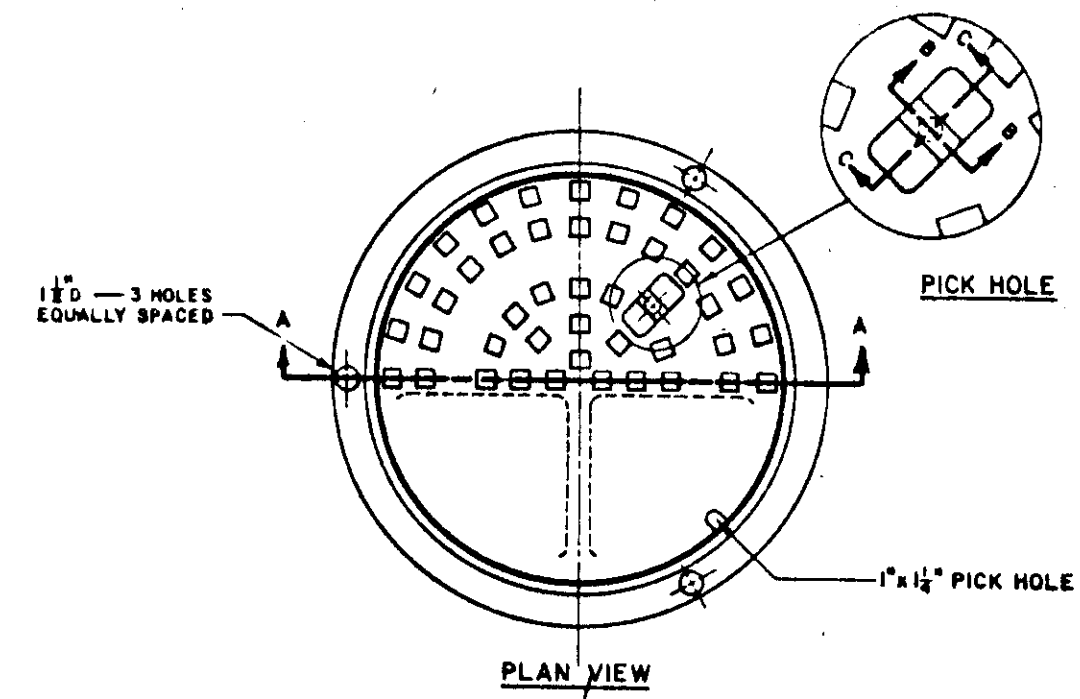


TYPE I CLEANOUT AT END OF LINE

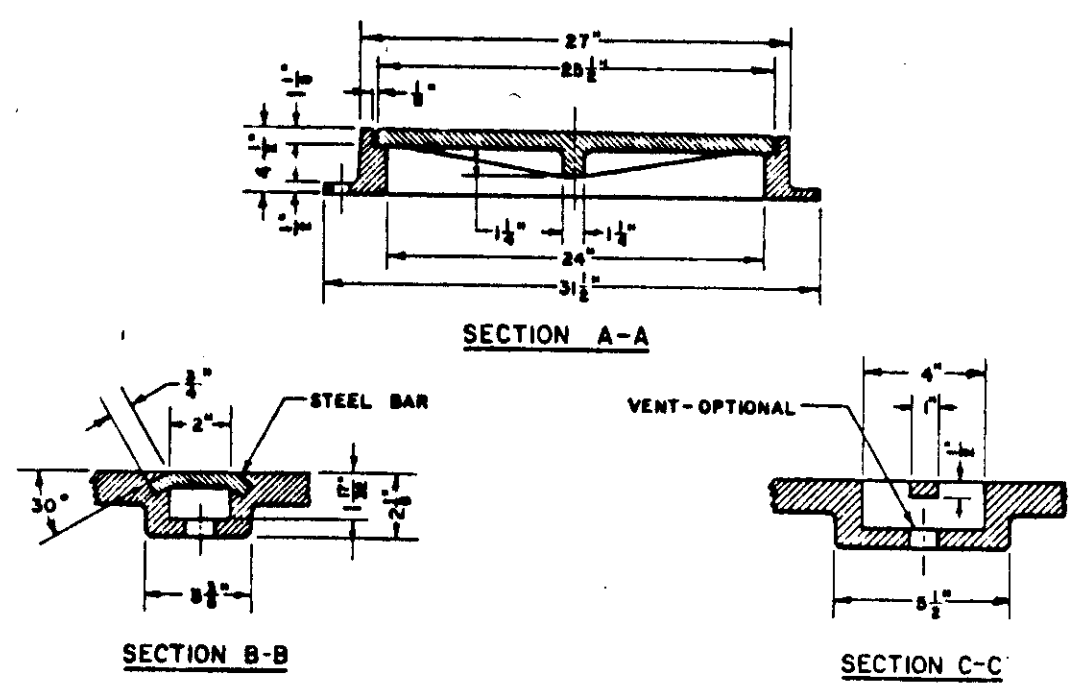


ELEVATION STORM SEWER MANHOLE

NOTE: A 1'-6" concrete cone may be used if approved by the Engineer.

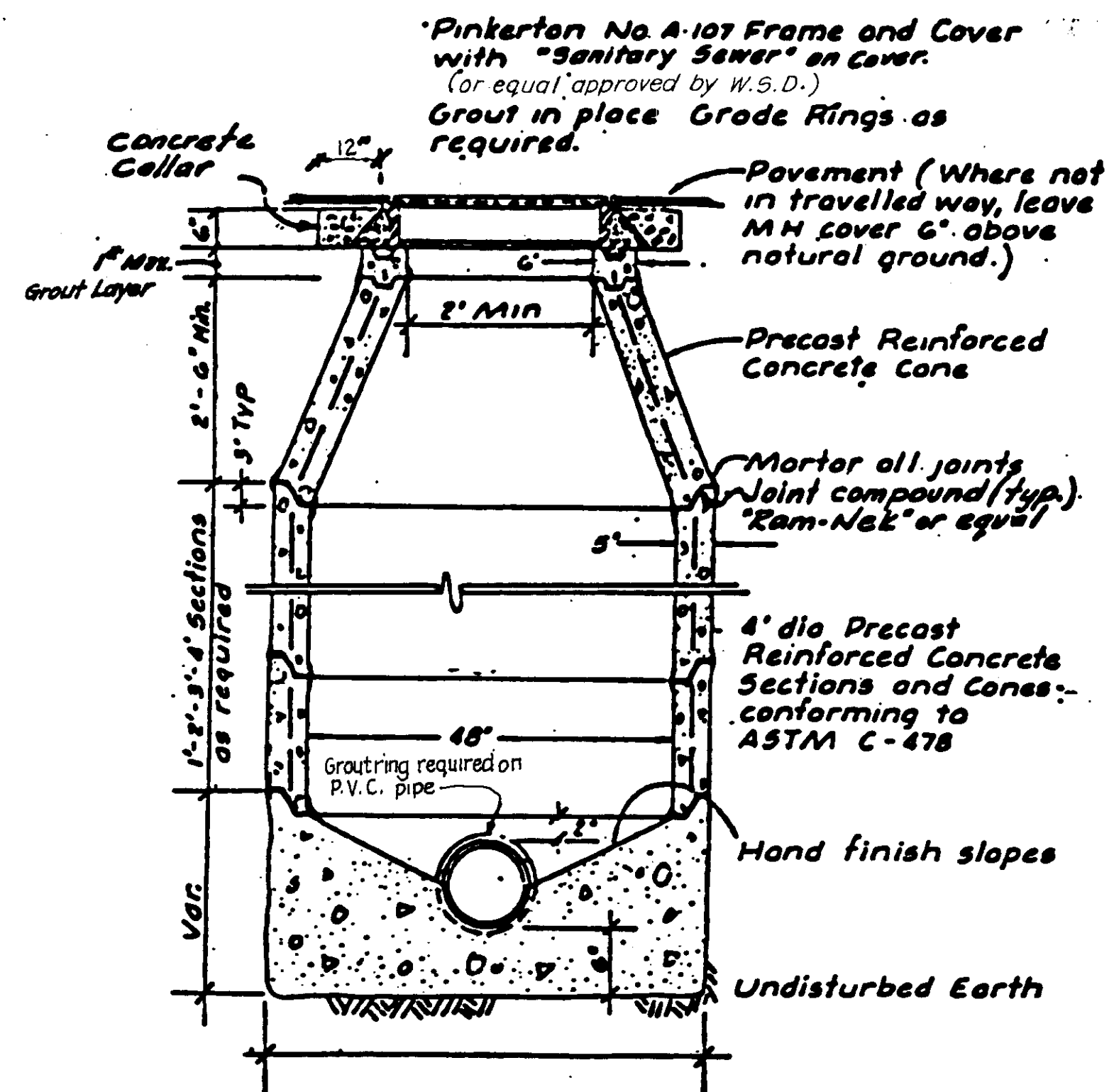


PLAN VIEW



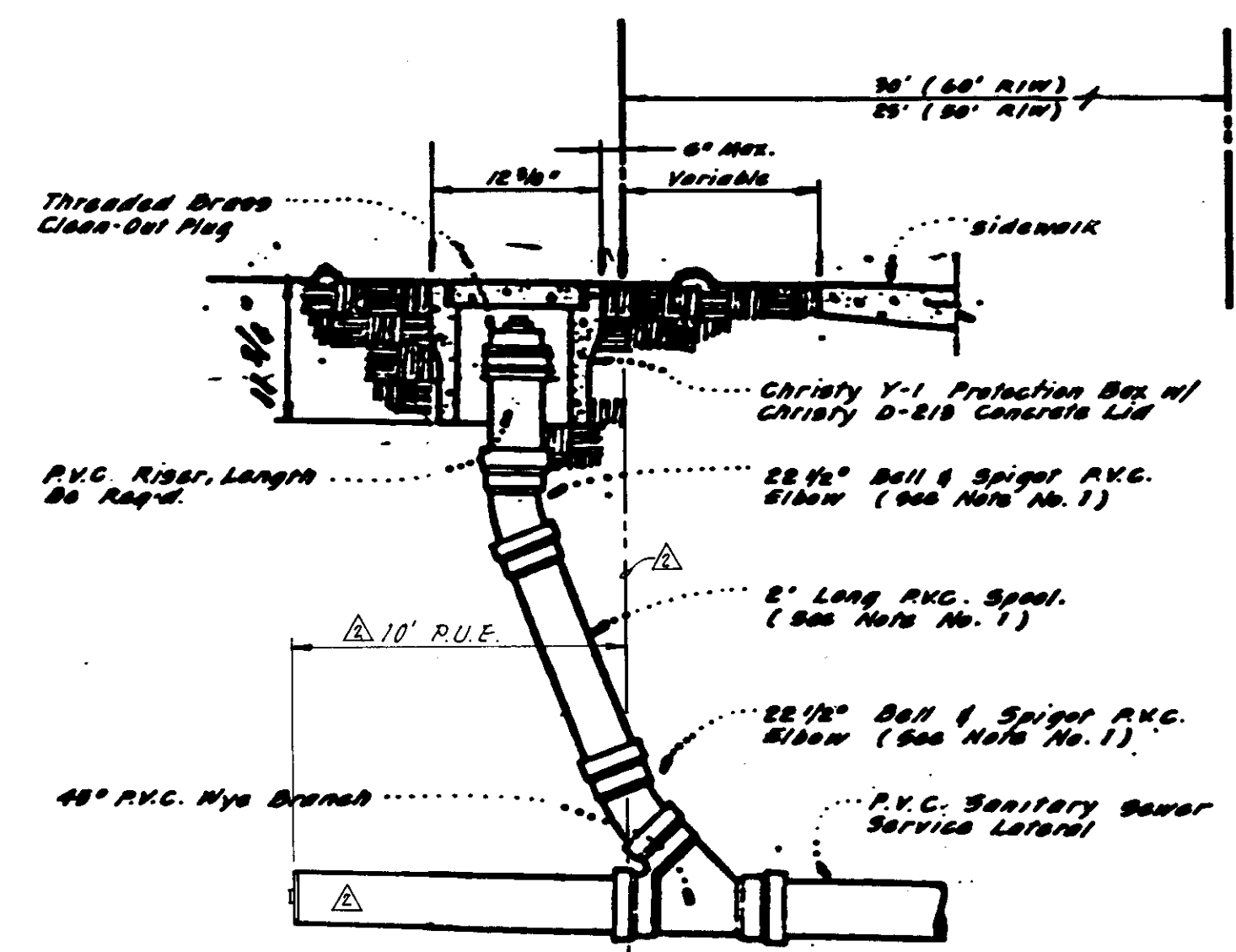
NOTE: Frame and Cover shall be machined to assure interchangeability and a close, quiet fit.

FRAME & COVER (MANHOLE)



NOTE: 1) Use Class "B" concrete for all sections.
 2) TYPE I MANHOLE to have eccentric cone.

TYPE I SANITARY SEWER MANHOLE - See Specs.

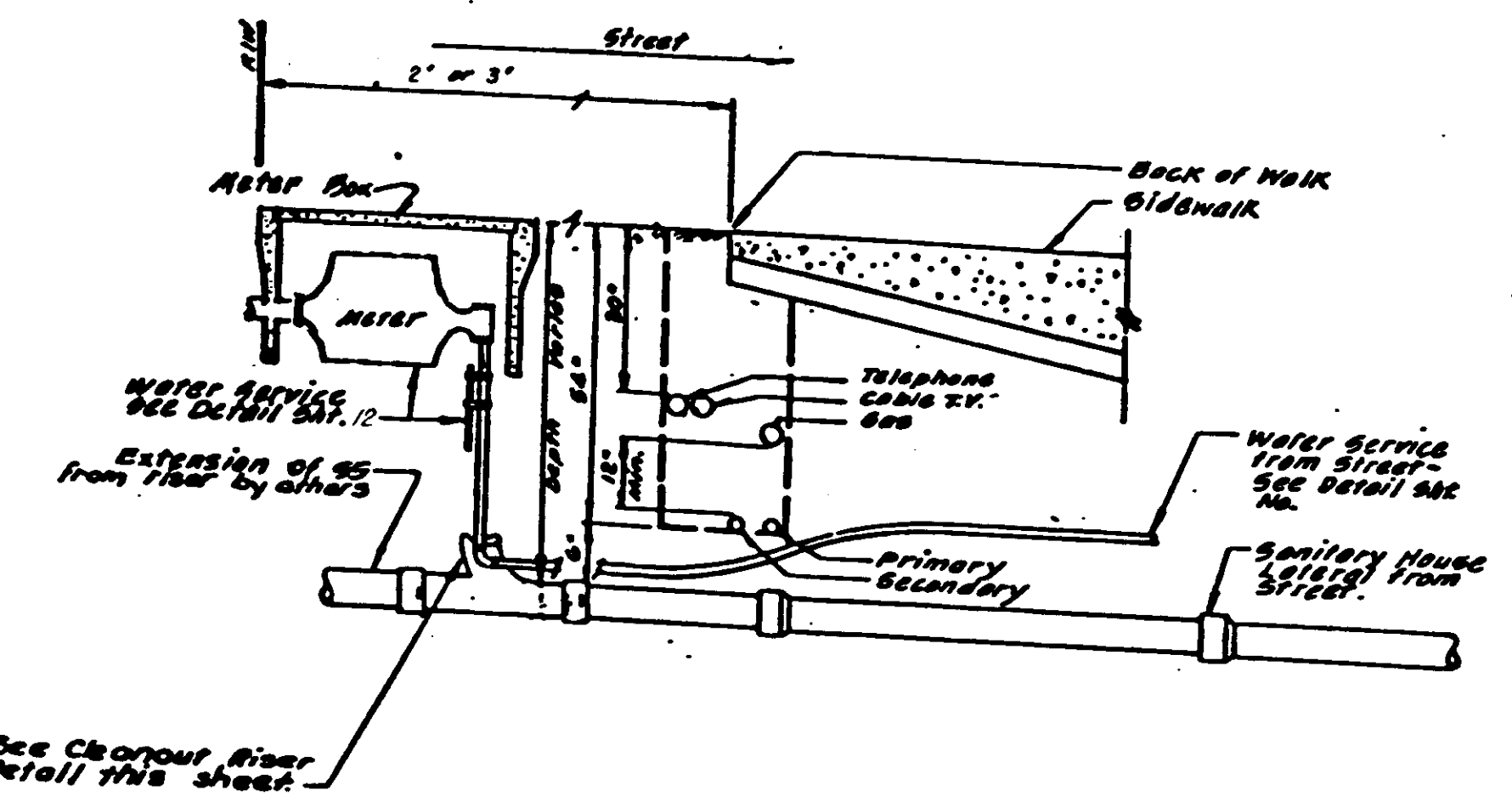


SERVICE LATERAL CLEAN-OUT

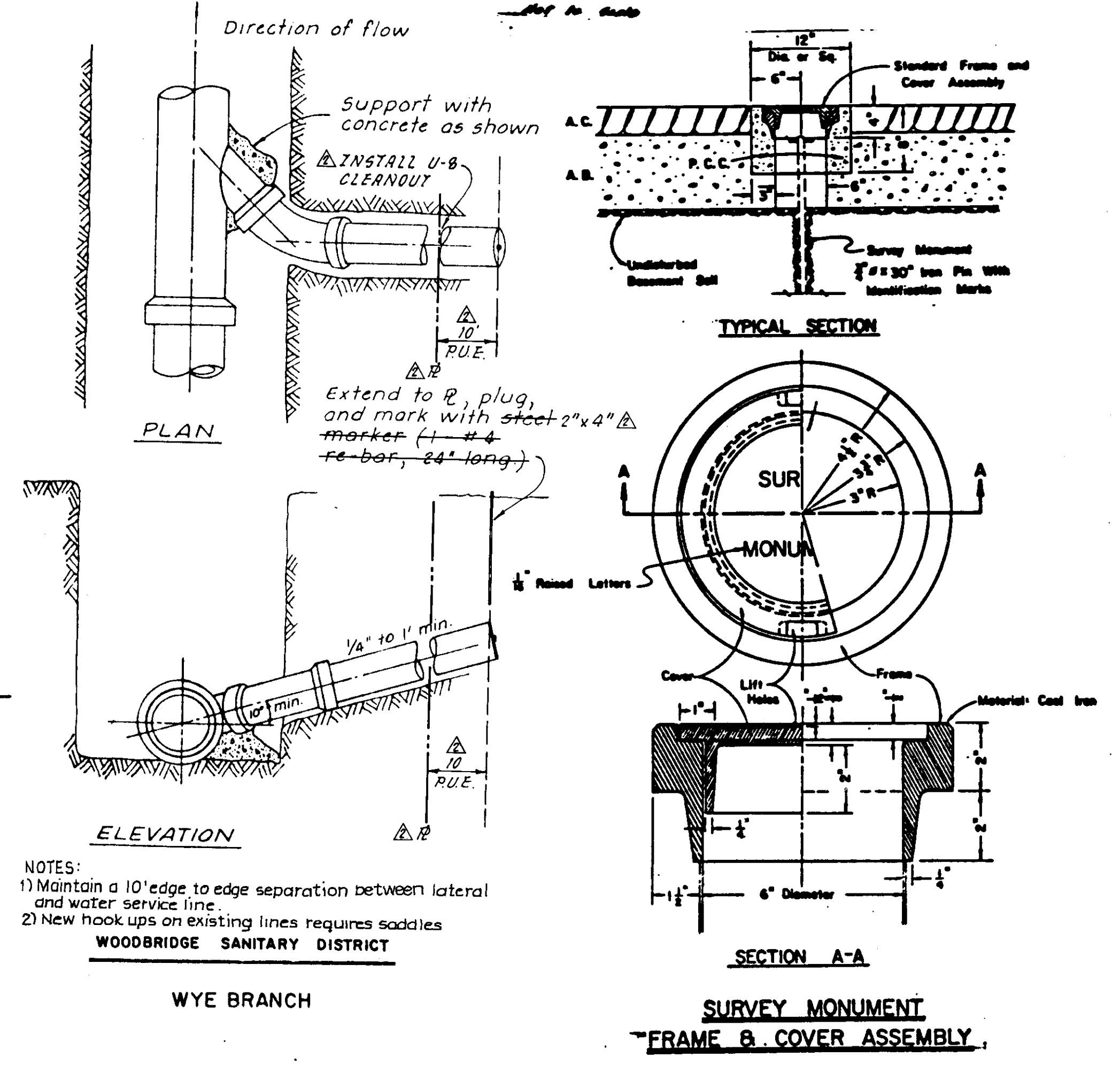
- NOTES:**
- Contractor may substitute long-radius P.V.C. bend, if available, for the two 22 1/2" elbows and 2' spool.
 - Cleanouts shall be installed on all sewer service laterals at the edge of the right of way as shown.
 - Cleanout riser and fittings shall be Polyvinyl Chloride (P.V.C.) pipe conforming to ASTM D 3034 - SDA 35 with rubber rings meeting the requirements of ASTM D - 3212.
 - Cleanout riser and fittings shall be of the same diameter pipe as the service lateral.

NOTE: (Typ. All Lots)
 1. Unless otherwise noted, services to be at center of lots.
 2. Services minimum of 3 feet apart on main line & minimum of 3 feet from valves.
 3. All water services shall be upstream of FH valve in cul-de-sac.

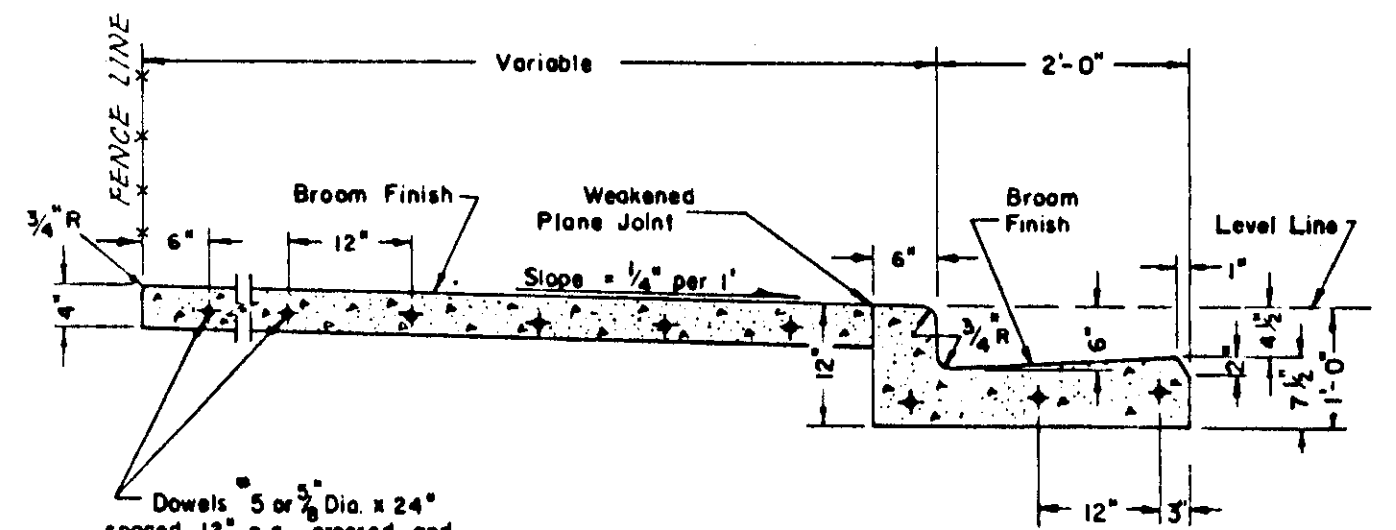
SS & W SERVICES TYPICAL LOT



UNDERGROUND UTILITY LOCATION



SECTION A-A SURVEY MONUMENT FRAME & COVER ASSEMBLY



WOODBRIDGE ROAD CURB, GUTTER & SIDEWALK

- NOTES:**
- Construct expansion joints @ 200' maximum and at returns, around light poles, hydrants and other fixed objects at sidewalk.
 - Transverse weakened plane joints shall be constructed @ 12' maximum intervals.

APPROVED BY: K. KJELSDEN
Kenneth Kjeldsen
 W.S.D. ENGINEER
 DATE: 7-24-91

AS BUILT
W. Page
 DATE: 12-23-91

SU2510

NO.	DATE	REVISIONS	BY	DESIGN	DRAWN BY
1	7/26/91	See Sheets 1, 9, & 10			
2	8-17-91	S.S. Service Lateral C.O. & Wye branch T.P.			

APPROVED	19
SUBMITTED BY	DATE 7/29/91
R.C.E. 1963B	

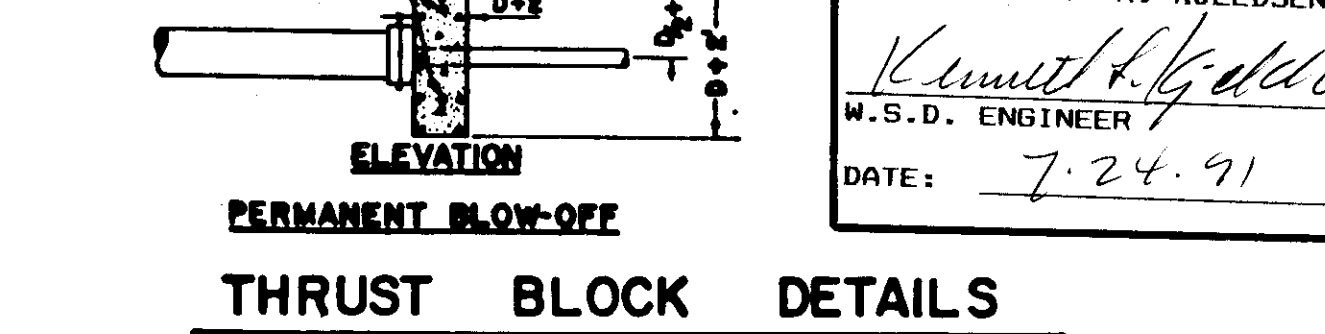
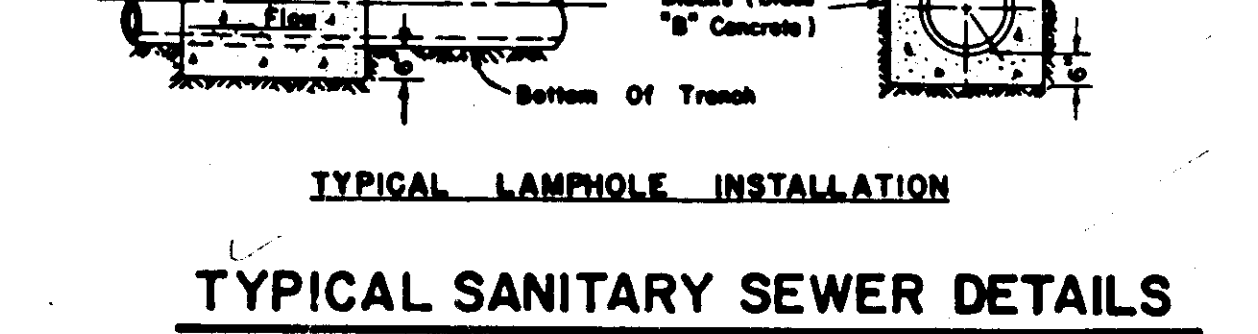
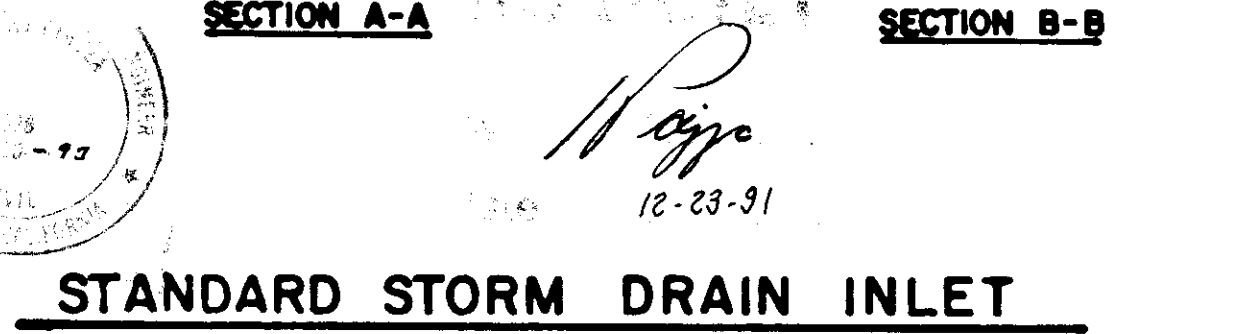
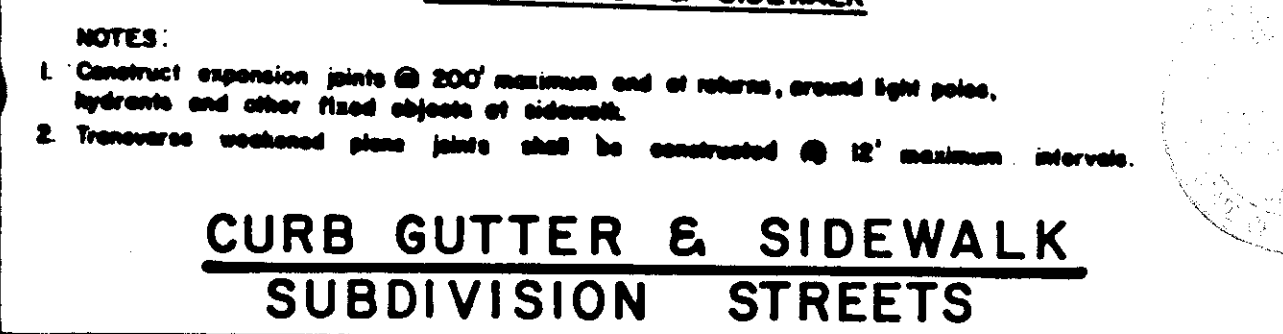
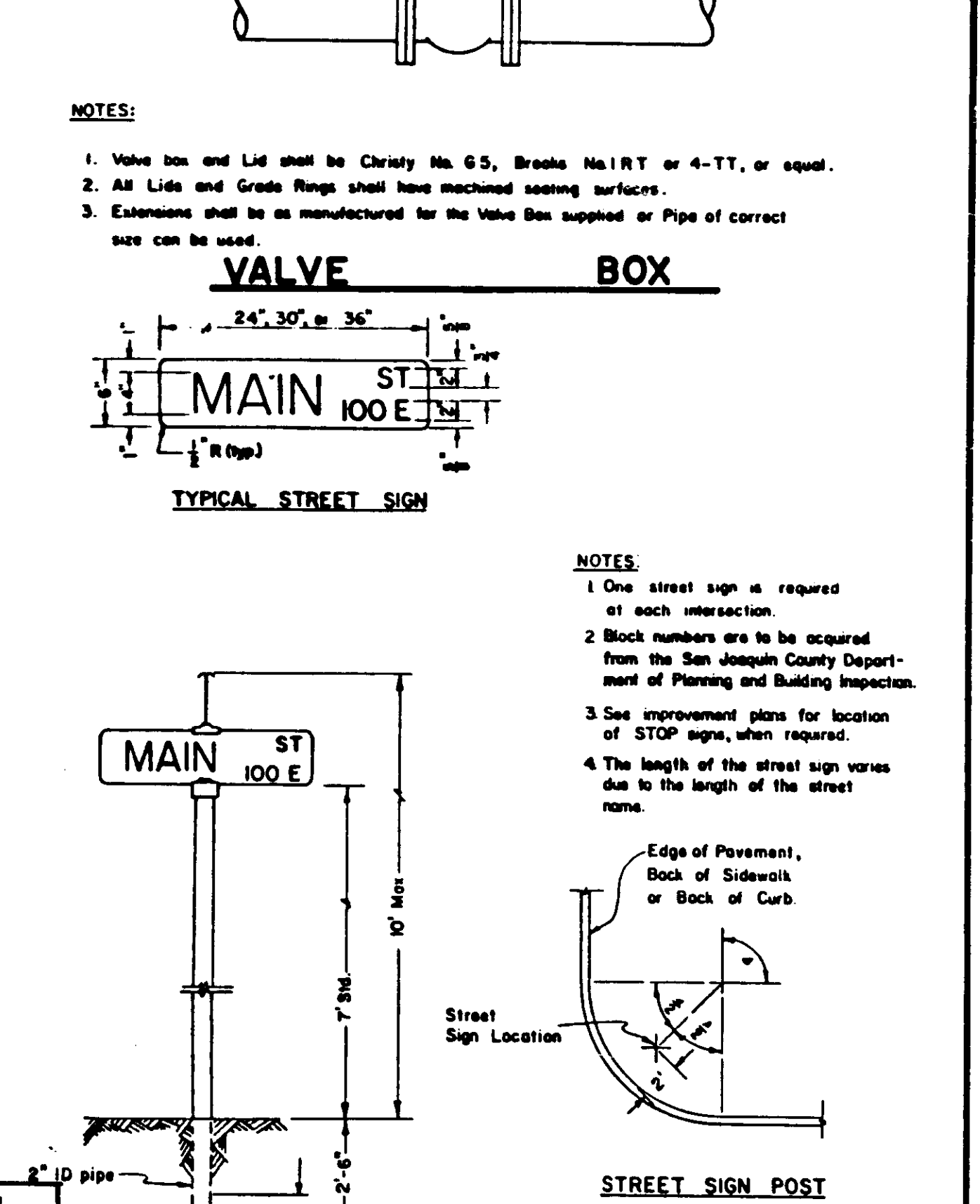
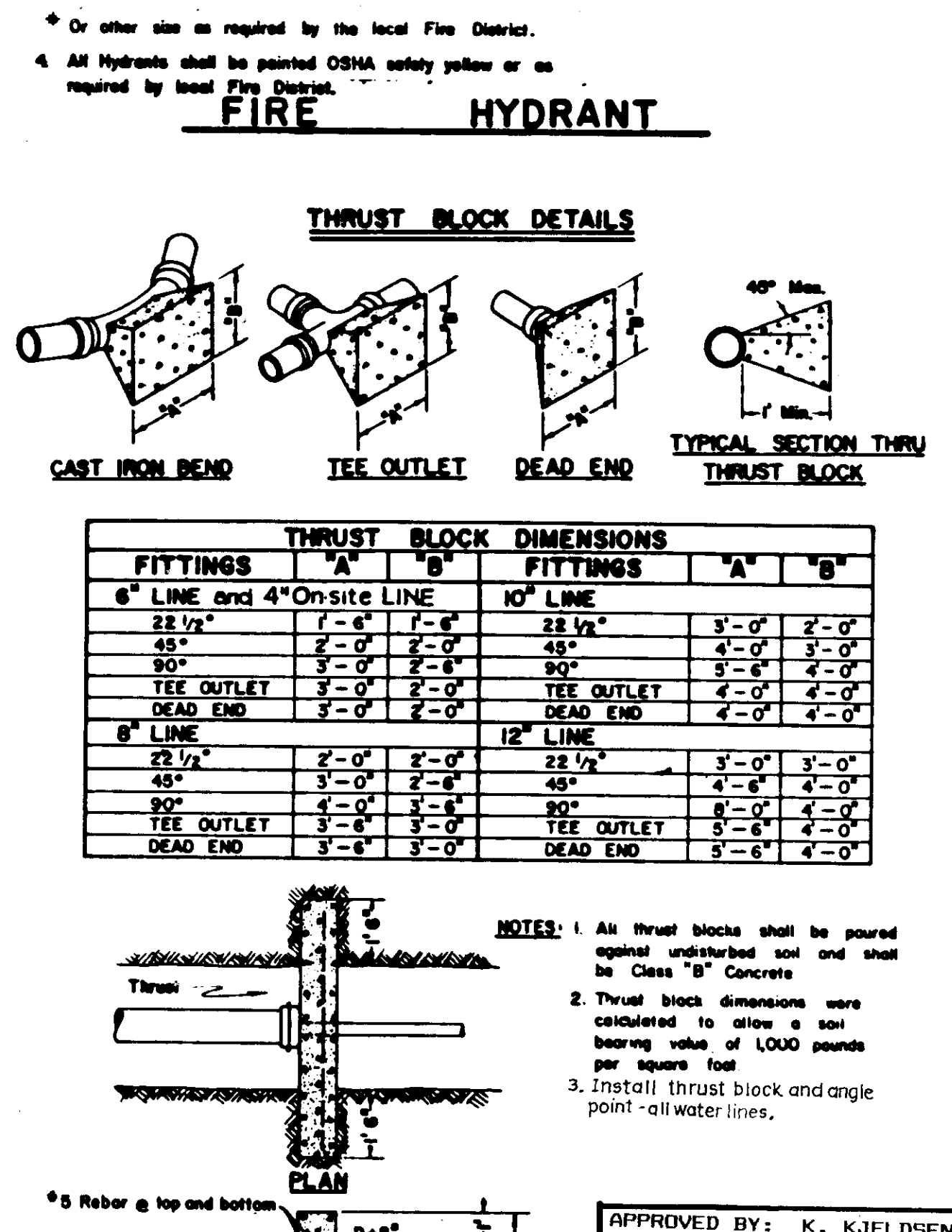
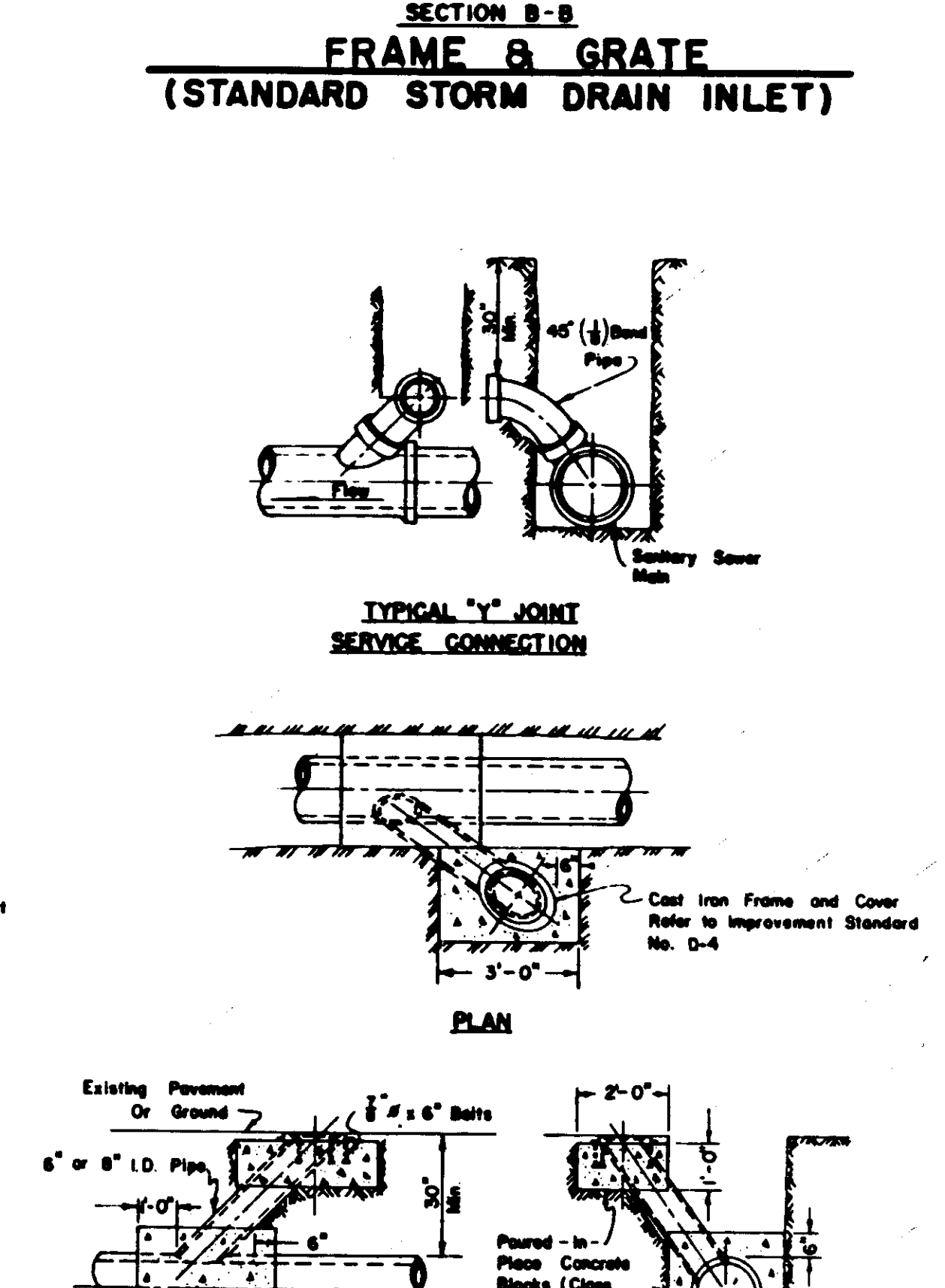
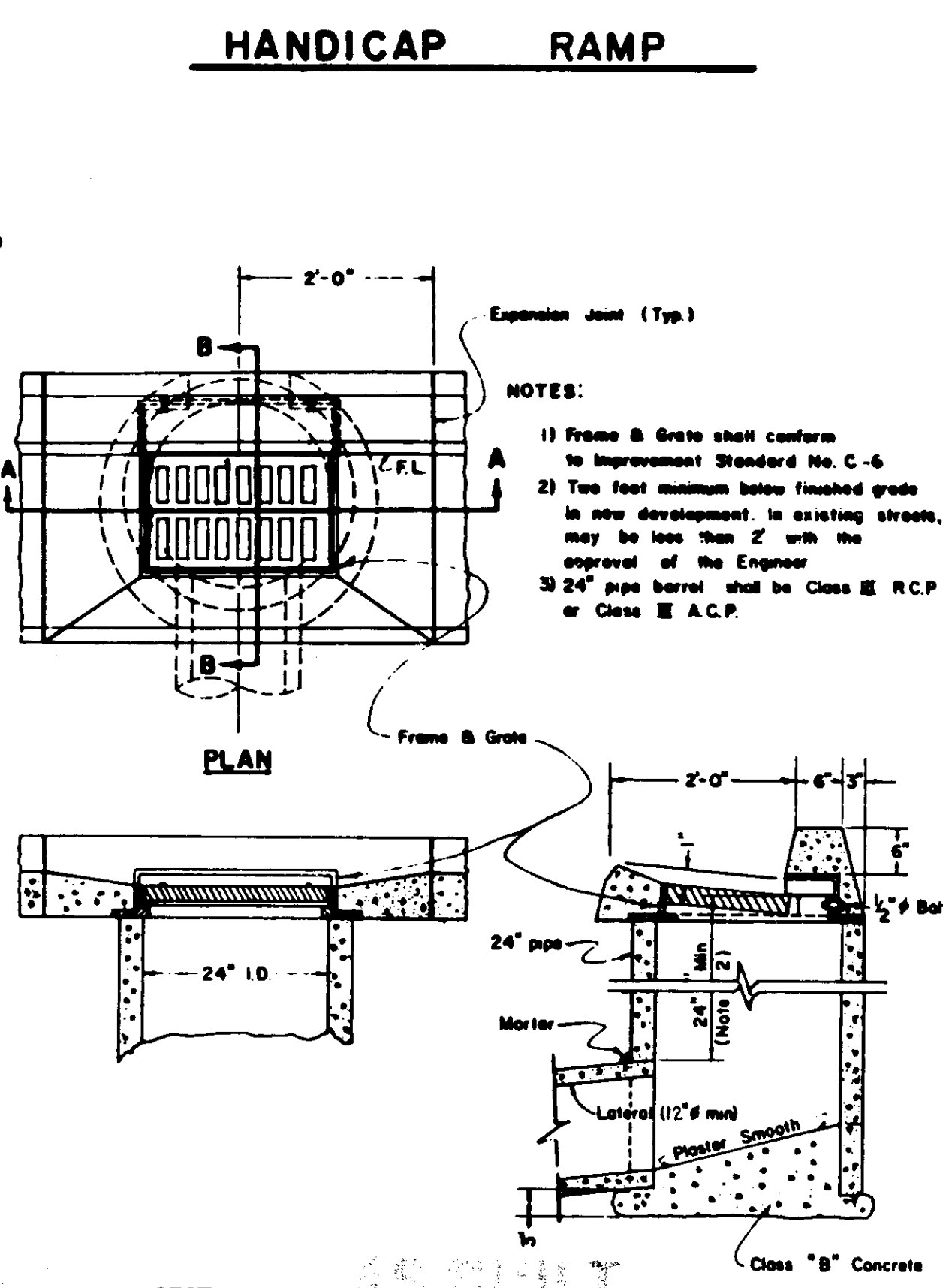
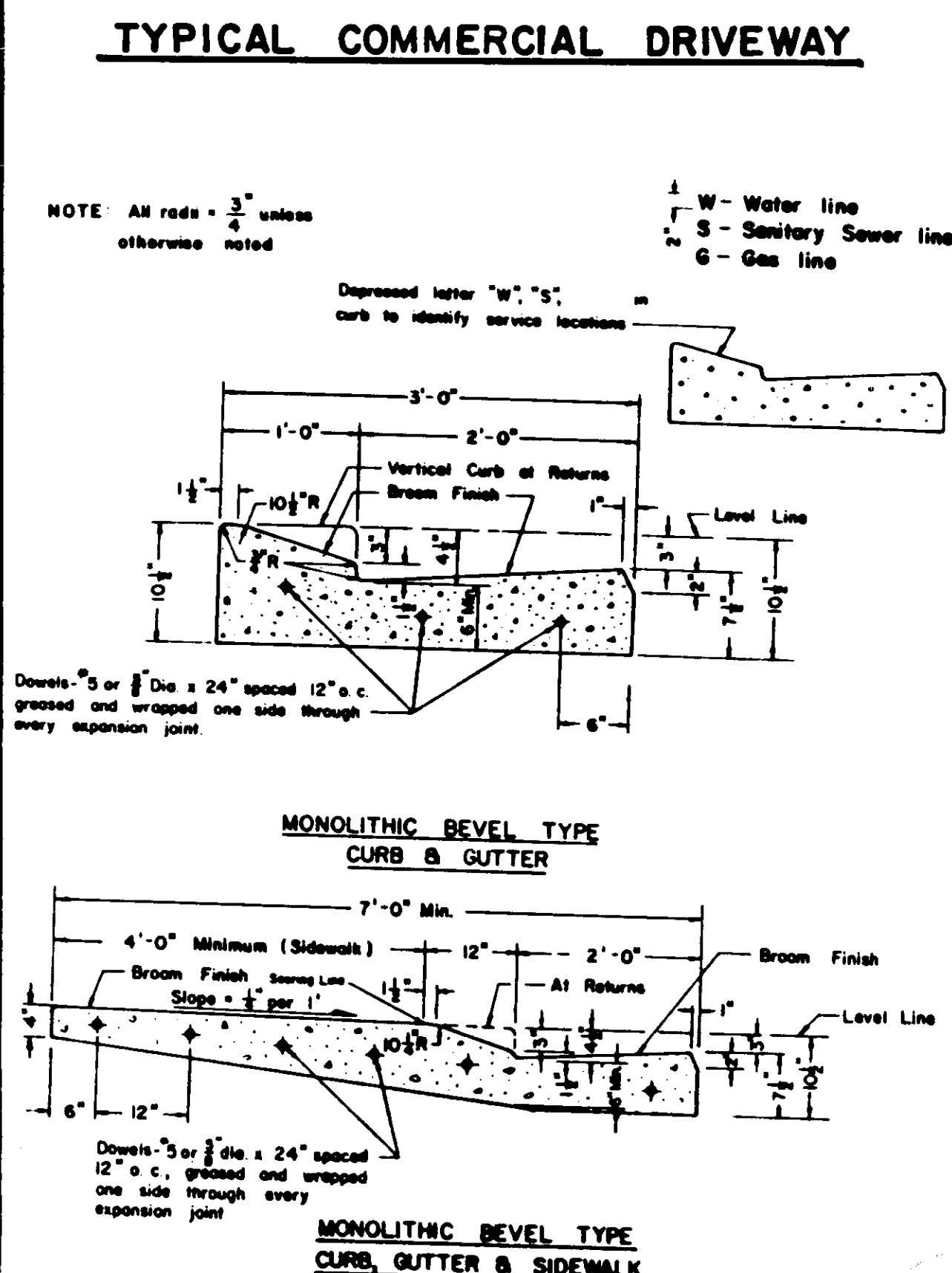
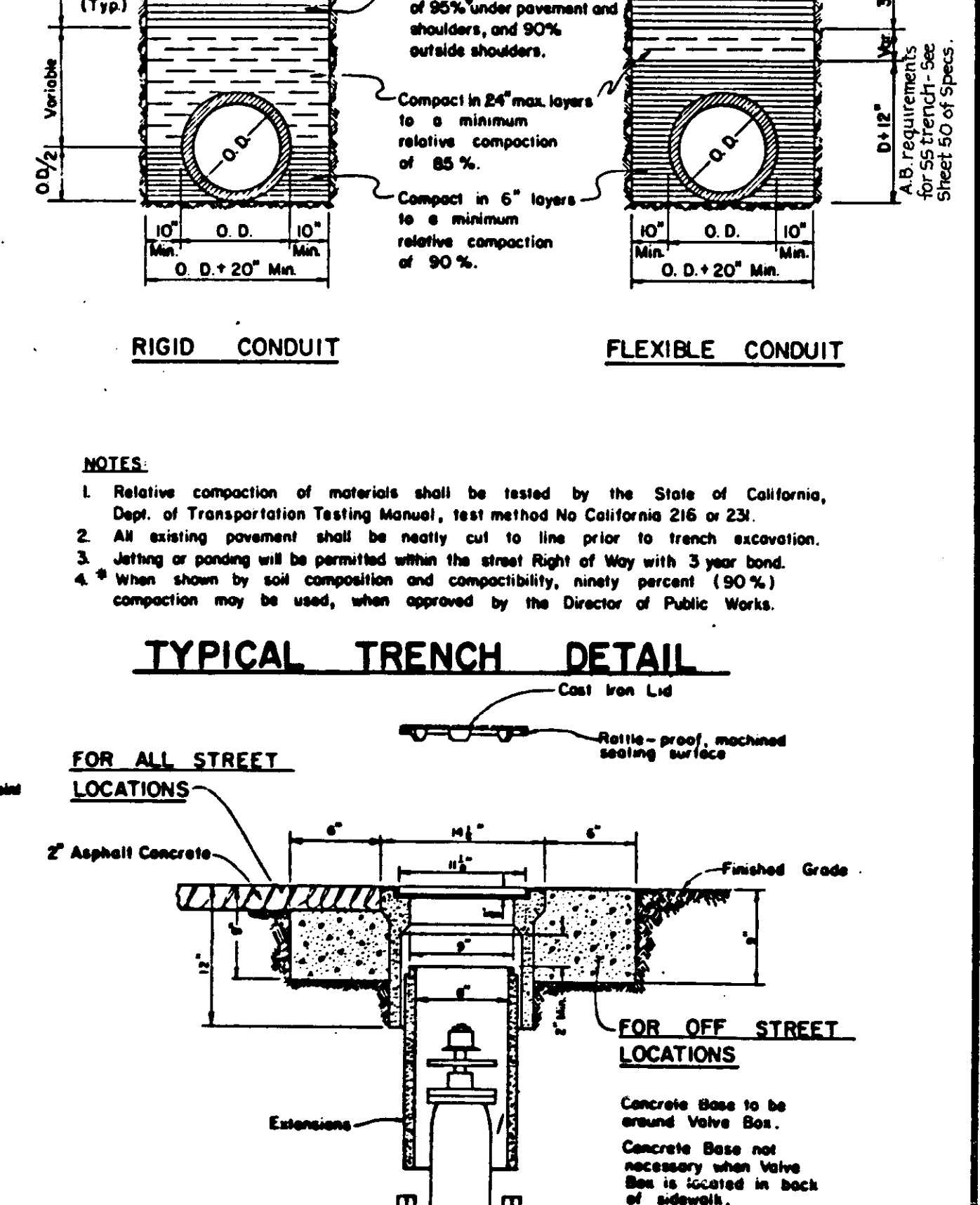
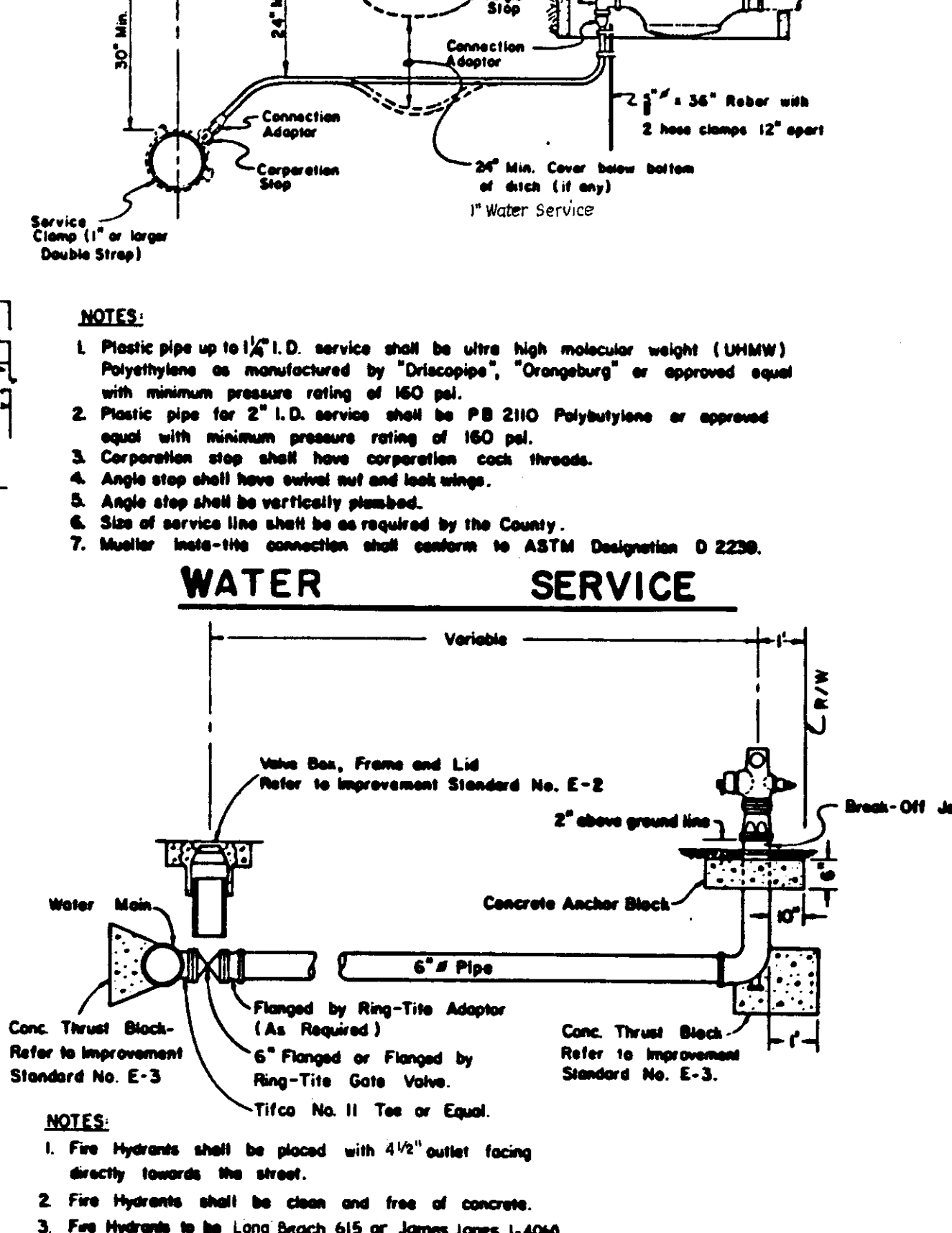
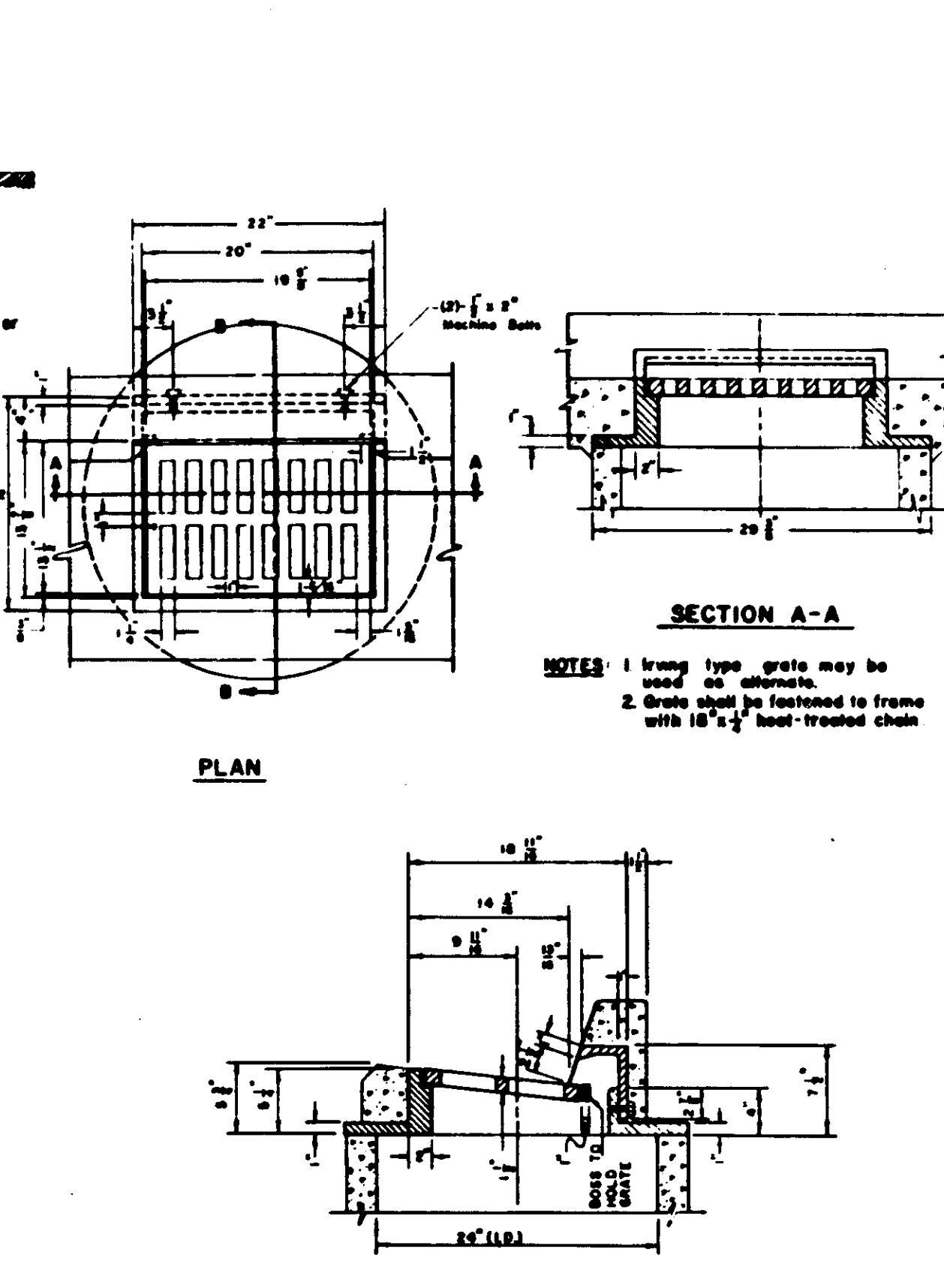
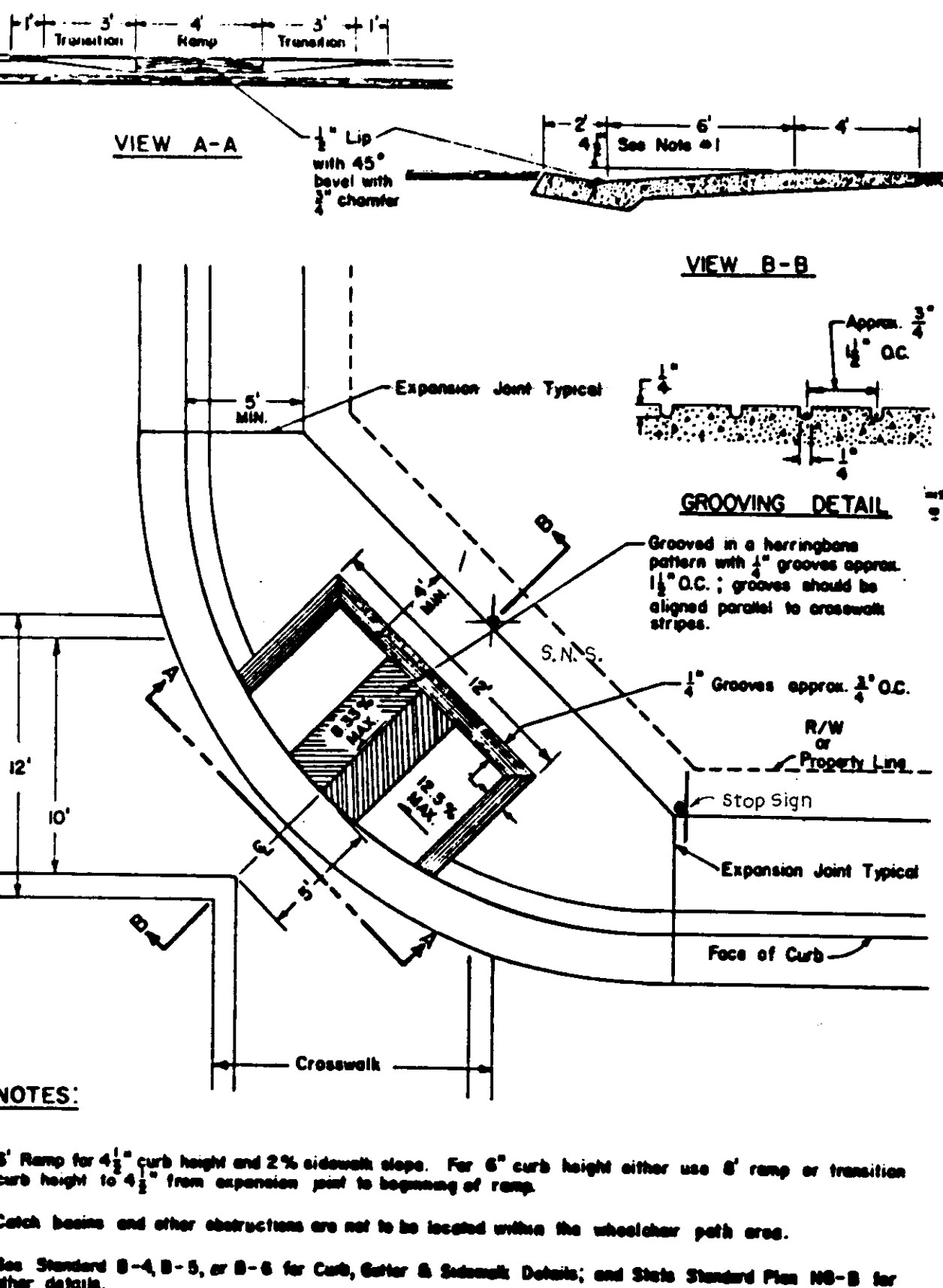
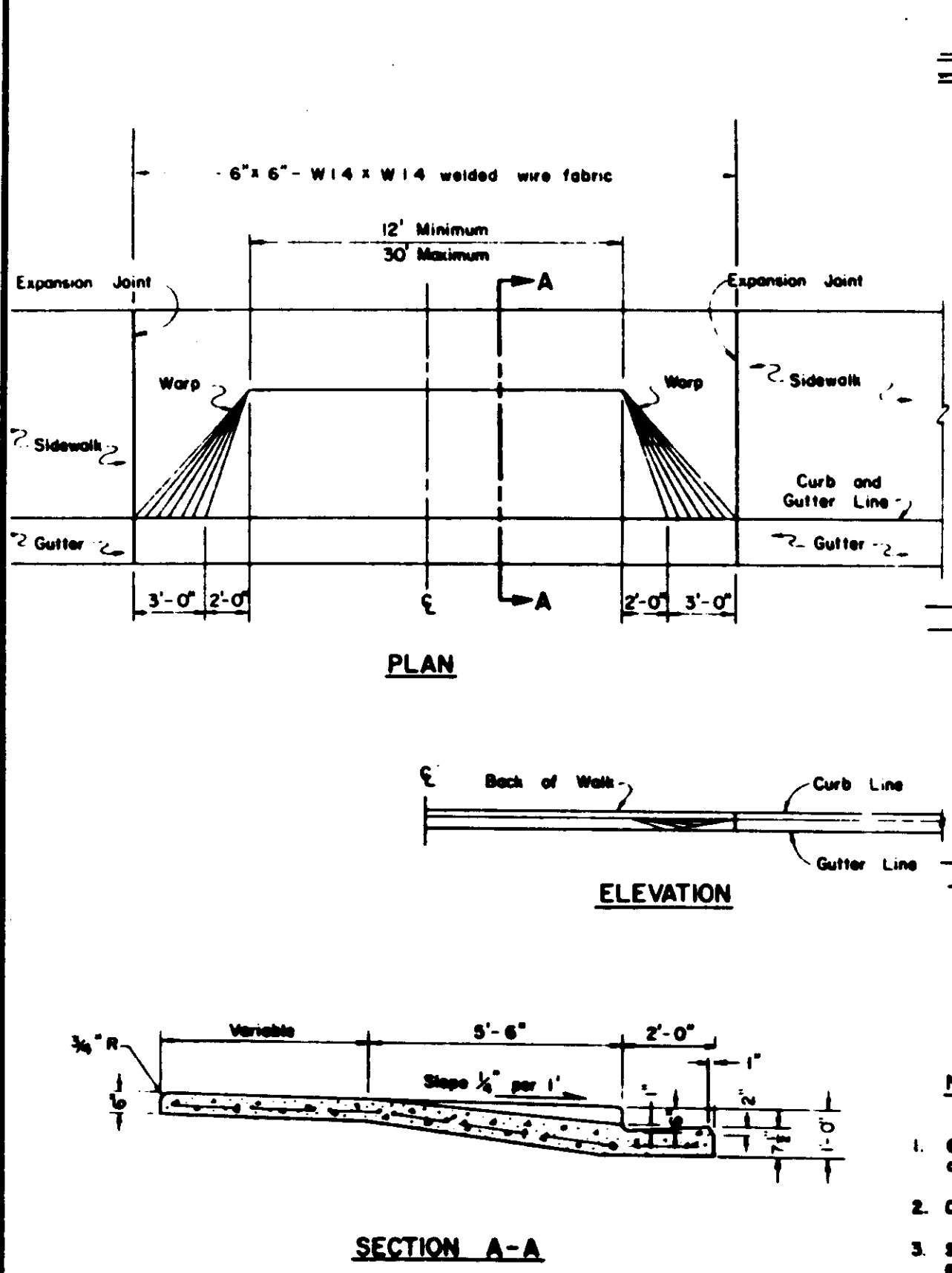
BAUMBACH & PIAZZA
 CIVIL ENGINEERS
 SURVEYORS
 323 W. ELM ST. LODI, CALIF.
 93240 PH: 209-388-8518

DETAIL SHEET

"WINDWOOD" SUBDIVISION
 UNIT NO. 1
 SUBDIVISION IMPROVEMENTS

SHEET 13 OF 15
JOB NO. 8888
FILE NO.

FOR ADDITIONAL DETAILS SEE SPECIFICATIONS



REVISIONS

NO	DATE	REVISIONS	BY
1	7/26/91	See Sheets 1, 5, 9, 10	TP

DESIGN _____ **DRAWN BY** _____

APPROVED _____ **DATE** 7-29-91

BAUMBACH & PIAZZA
 CIVIL ENGINEERS - SURVEYORS
 323 W. ELM ST., LODI, CALIF. 95240 PH. 209-368-6618

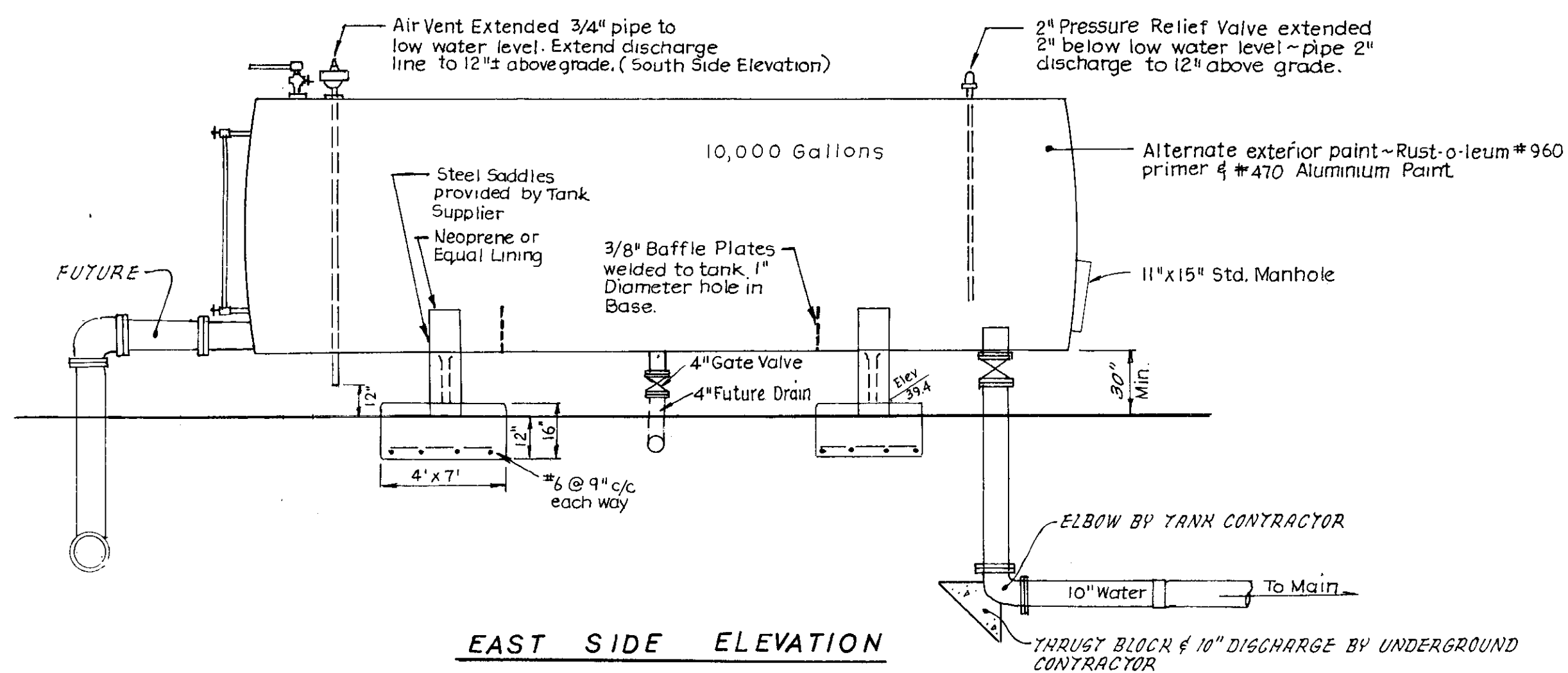
DETAIL SHEET

APPROVED BY: K. KJELDSEN
 W.S.D. ENGINEER
 DATE: 7-24-91

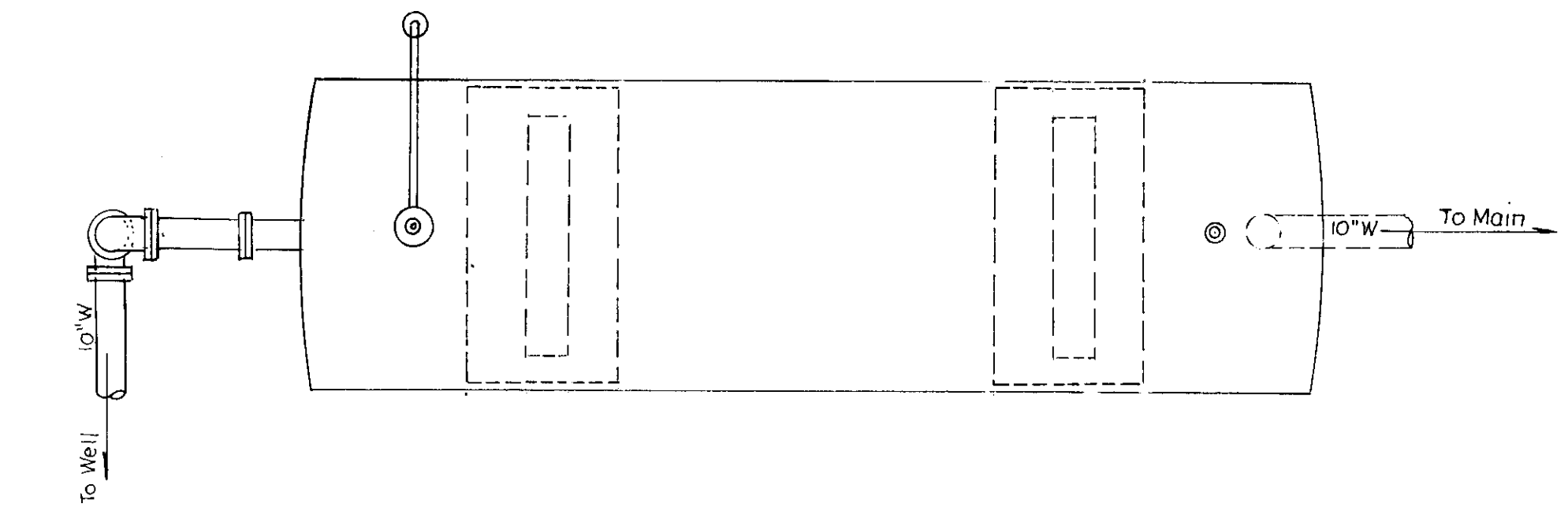
"WINDWOOD" SUBDIVISION
 UNIT NO. 1

SHEET 12 OF 15
 JOB NO. 8888
 FILE NO.

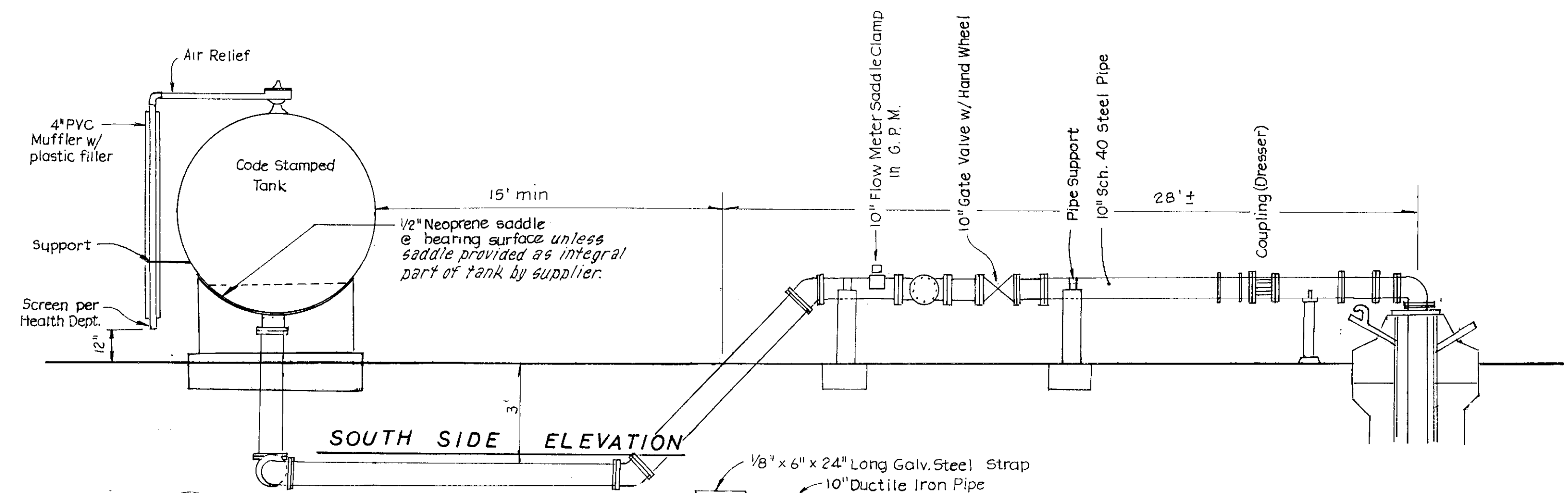
SU 2511



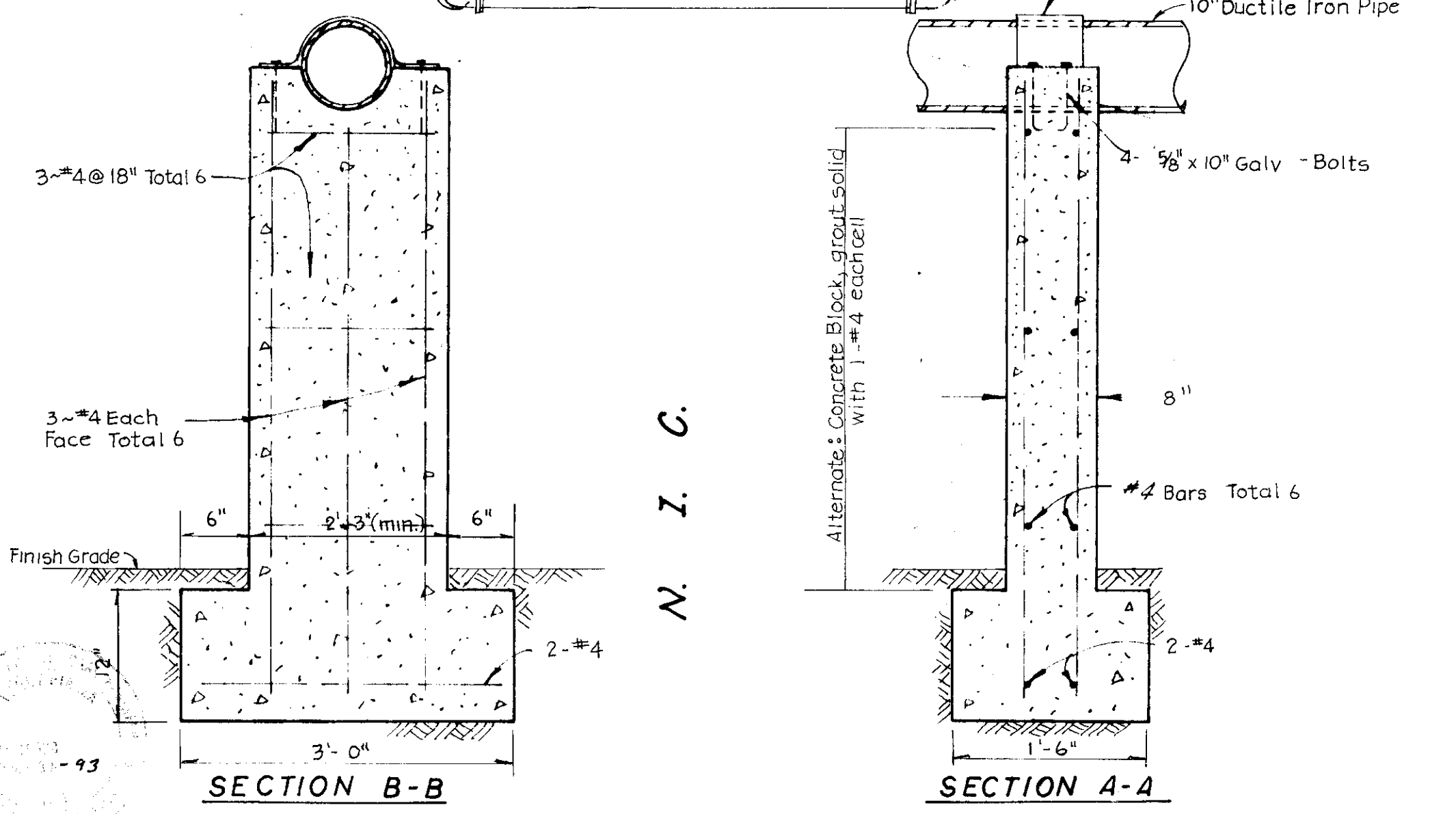
EAST SIDE ELEVATION



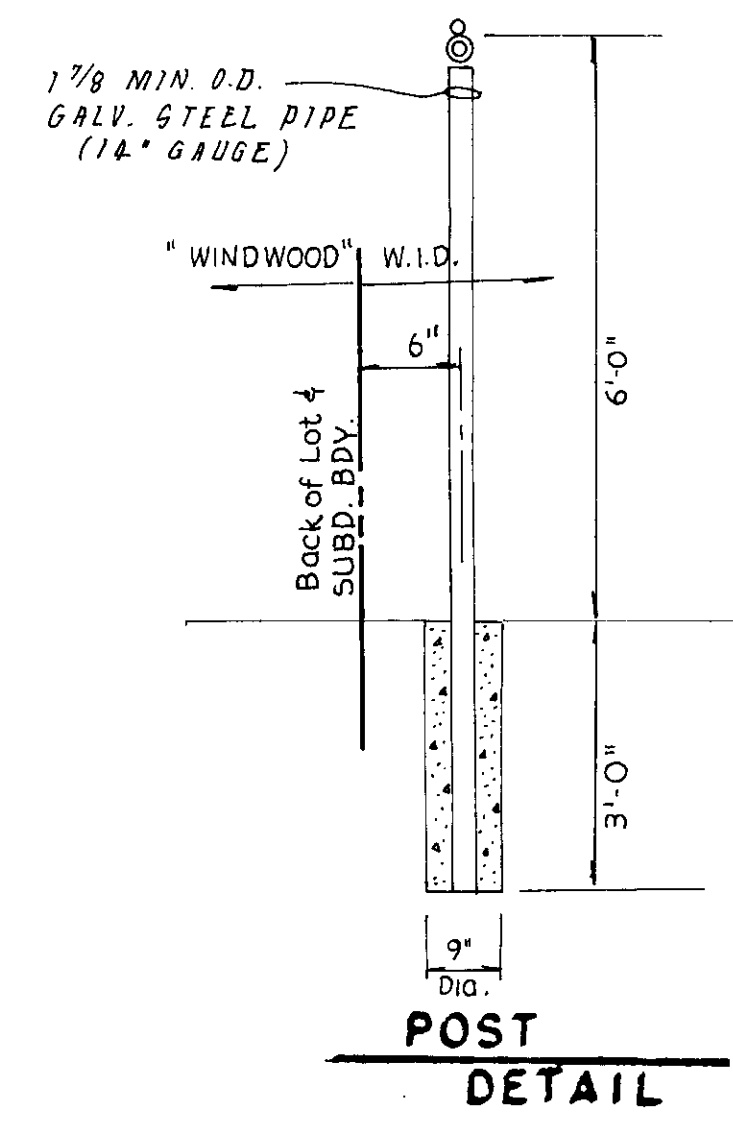
PLAN VIEW PRESSURE TANK



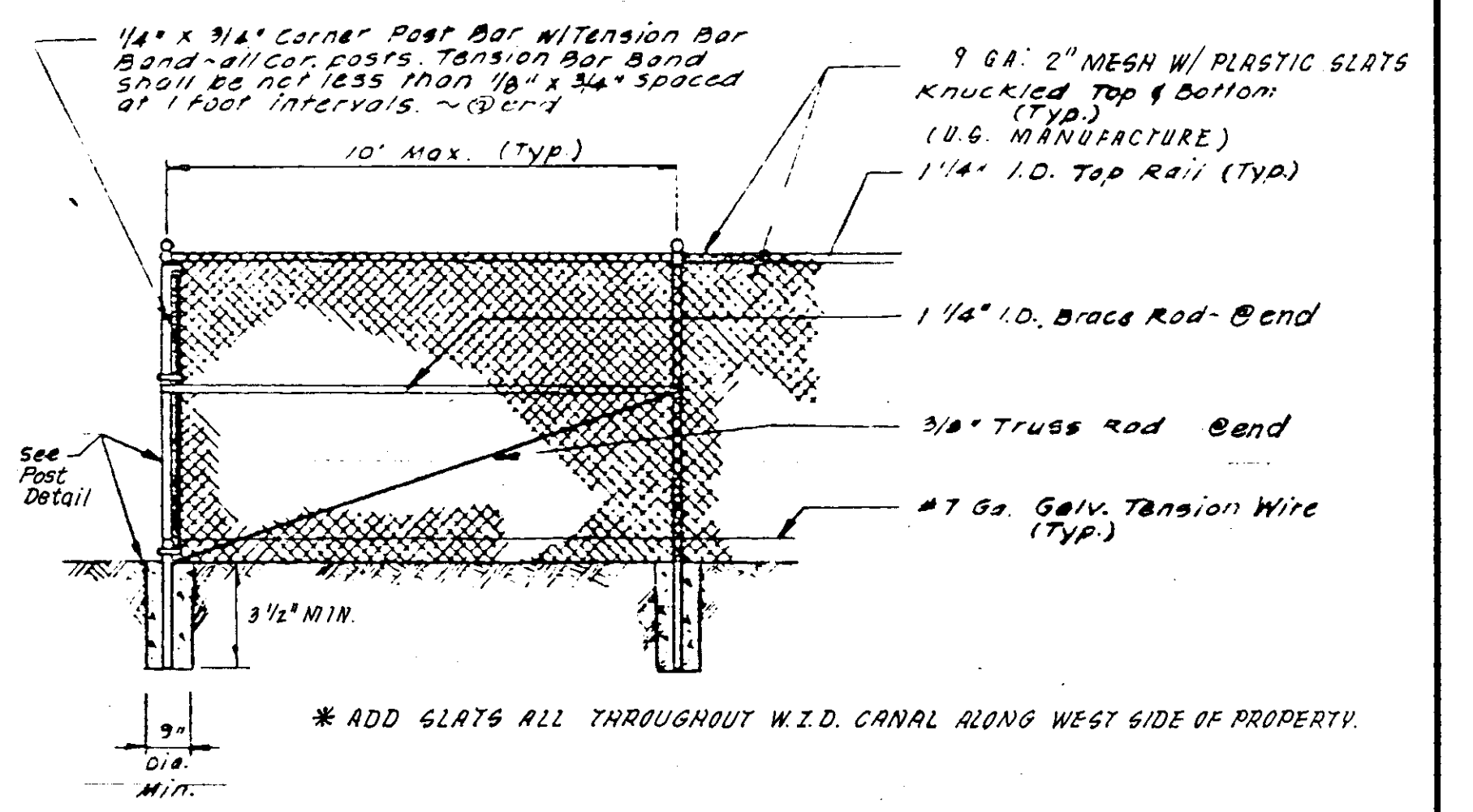
SOUTH SIDE ELEVATION



PIPE SUPPORT DETAIL



POST DETAIL



FENCE DETAIL AT W.I.D. CANAL
NO 56016

WOODBIDGE IRRIGATION DISTRICT
18777 LWR SAC RD
WOODBIDGE, CALIFORNIA 95258

SPECIFICATION FOR CHAIN LINK FENCING
WITHIN THE WOODBRIDGE IRRIGATION DISTRICT

The following specifications for chain link fencing shall apply to all applications for chain link fencing within the District:

Requirements

1. Fencing fabric wire shall be new 9 gauge wire material with galvanized fasteners and ties made by U.S. manufacturers.
2. Line posts and brace posts shall be steel galvanized with a 1-7/8 inch outside diameter with a minimum of 14 gauge in sidewall thickness.
3. A wire stretcher bottom shall be provided.
4. Holes for line and corner or brace posts shall be 3 feet deep and a minimum of 8 inches in diameter and set in concrete.
5. Line posts, brace posts and corner posts shall not exceed 10 feet spacing (maximum).
6. WID requires that fencing be set six inches onto WID right of way line with no gates or openings leading into the right of way unless otherwise ordered by the District.
7. WID will not be responsible for the maintenance or upkeep of any fencing or decorator accent materials used to enhance the appearance of any chain link fence.
8. Gates shall be hinged and of a swinging type with a minimum of 16 feet between gate posts and of similar material. All gates shall have locking mechanisms and hinged as to prevent the gate from being removed by lifting.
9. WID reserves the right to require additional specifications as are necessary and accepts no liabilities for any occurrence relating to fencing on or off the right of way. WID reserves the right to make modifications to fencing including its removal or relocation should the District determine it necessary.

SU2512

AS BUILT

[Signature]
12-29-91

APPROVED BY: K. KJELSDEN
[Signature]
W.S.D. ENGINEER
DATE: 7-24-91

NO.	DATE	REVISIONS	BY
1	7/26/91	See Sheets 1, 5, & 10	TP

DESIGN: _____ DRAWN BY: _____
APPROVED BY: Henry M. Hirata RCE No. 21258
_____, 19__
SUBMITTED BY: *[Signature]*
R.C.E. 19638 DATE 7-29-91
SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

BAUMBACH & PIAZZA
CIVIL ENGINEERS
SURVEYORS
323 W. ELM ST. Lodi, CALIF.
95240 PH: 209-368-6618

WELL SITE
DETAIL

WINDWOOD
SUBDIVISION
UNIT NO. 1

SHEET 11 OF 15
JOB NO. 8888
FILE NO. G-876

To be installed winter of '92

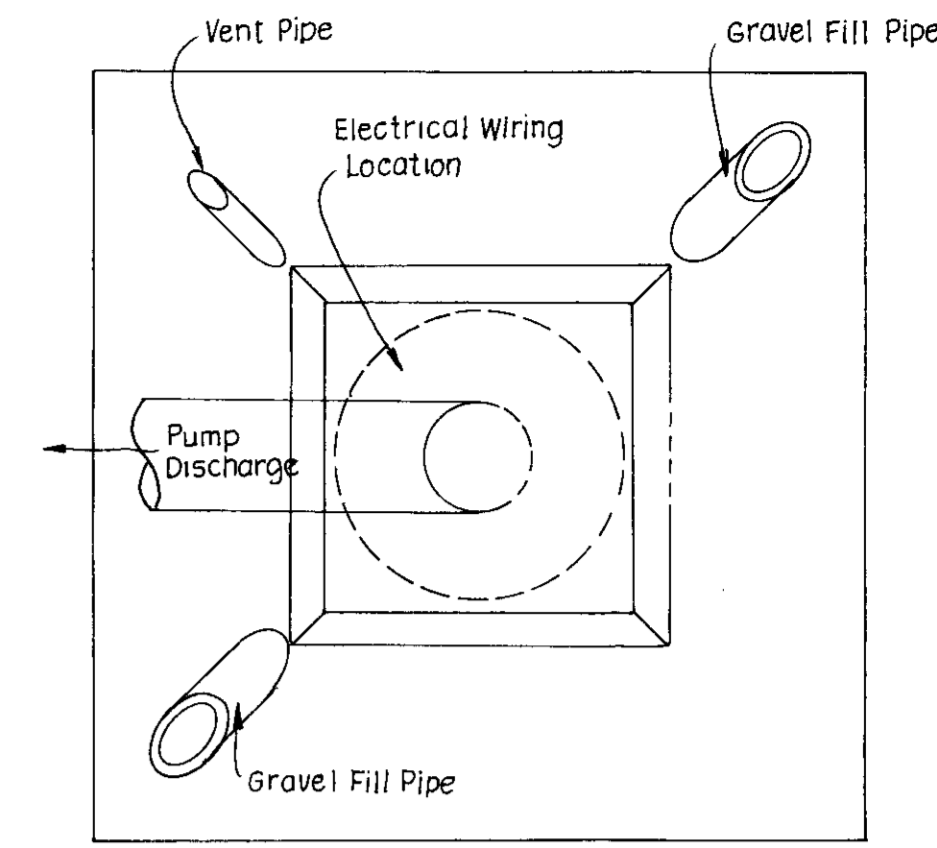
LIMIT OF WORK THIS SHEET (WELL SITE)

- 1) INSTALL & CAP WELL & SANITARY SEAL
- 2) INSTALL 10" WATER DISCHARGE & PRESSURE TANK
- 3) GRADING (NO A.C.)

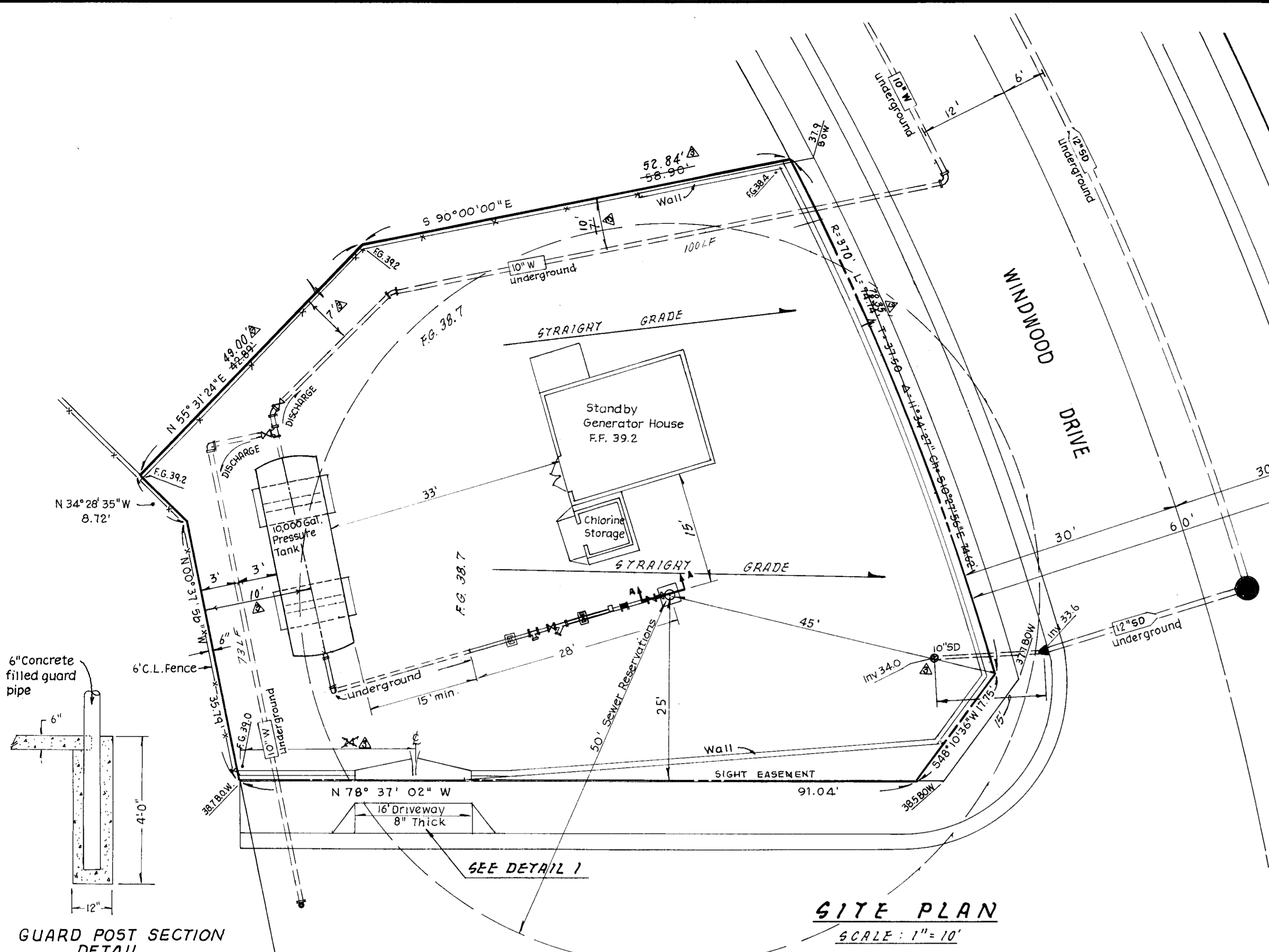
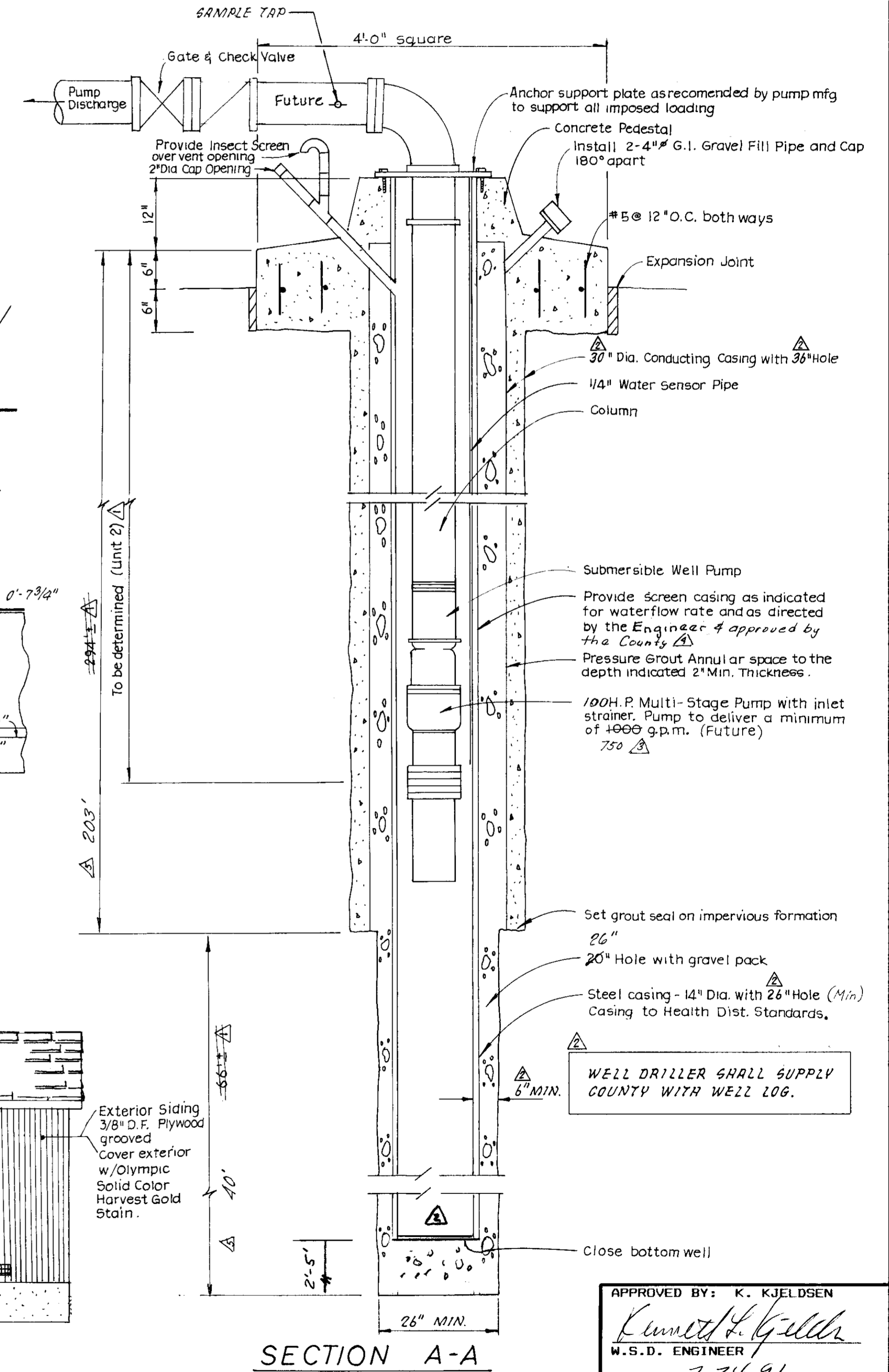
Well driller will provide sieve analysis of aquifer (300'-350') before gravel pack design 10-10-91

NOTE - Well to be installed under Unit #2
M. Page

PUMP BASE

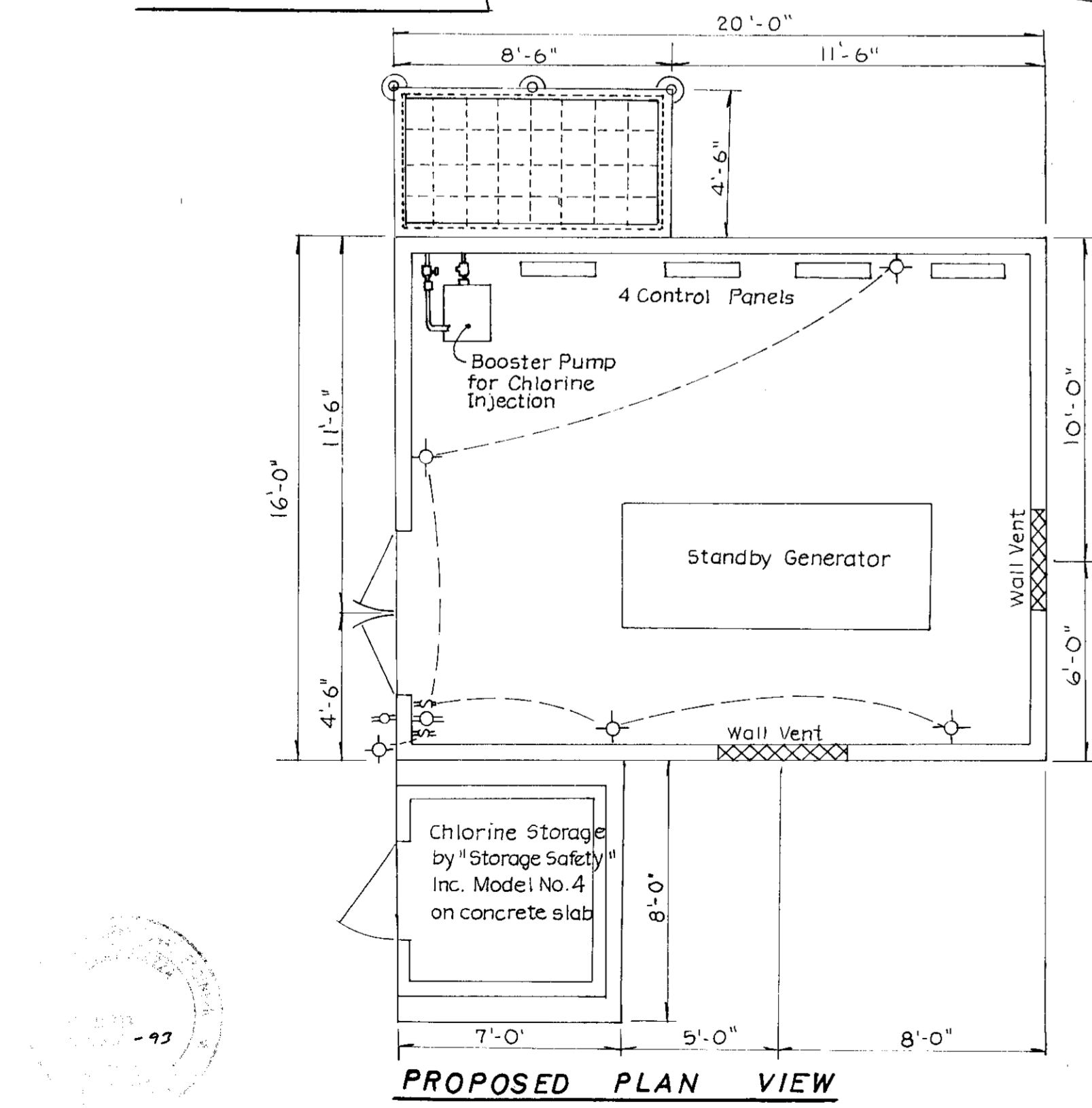


- NOTES:
1. Gravel Pack shall be selected to provide good control of fine sand.
 2. The well screen shall be Johnson #60 slot or Roscoe Moss Copper Bearing Strength Steel - Full Flo Shutter Screen Slot size 3/32" per space.

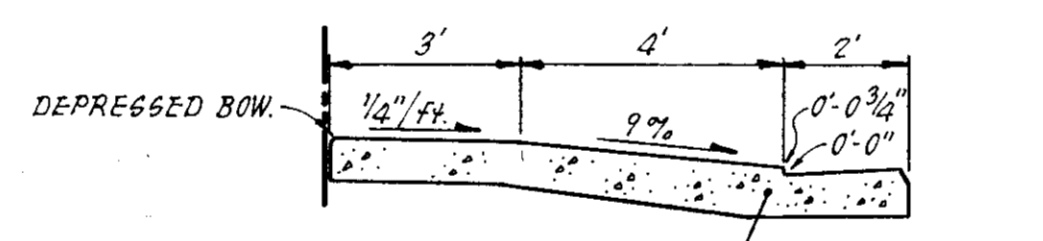


SITE PLAN
SCALE: 1" = 10'

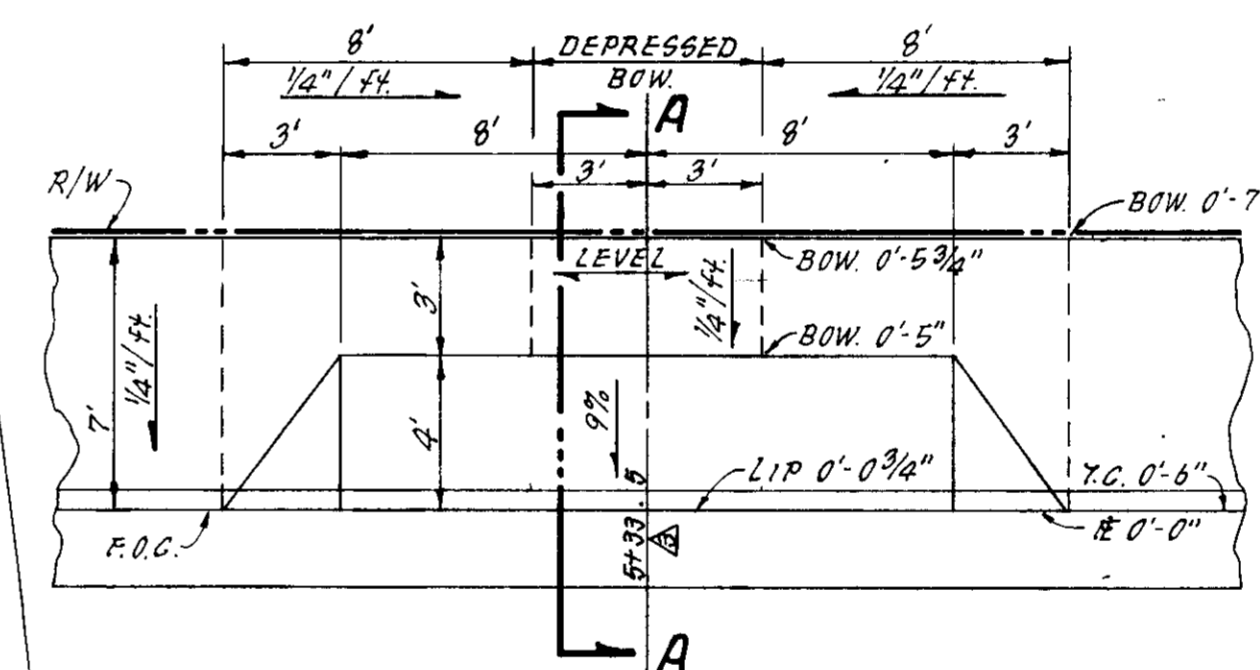
GUARD POST SECTION DETAIL



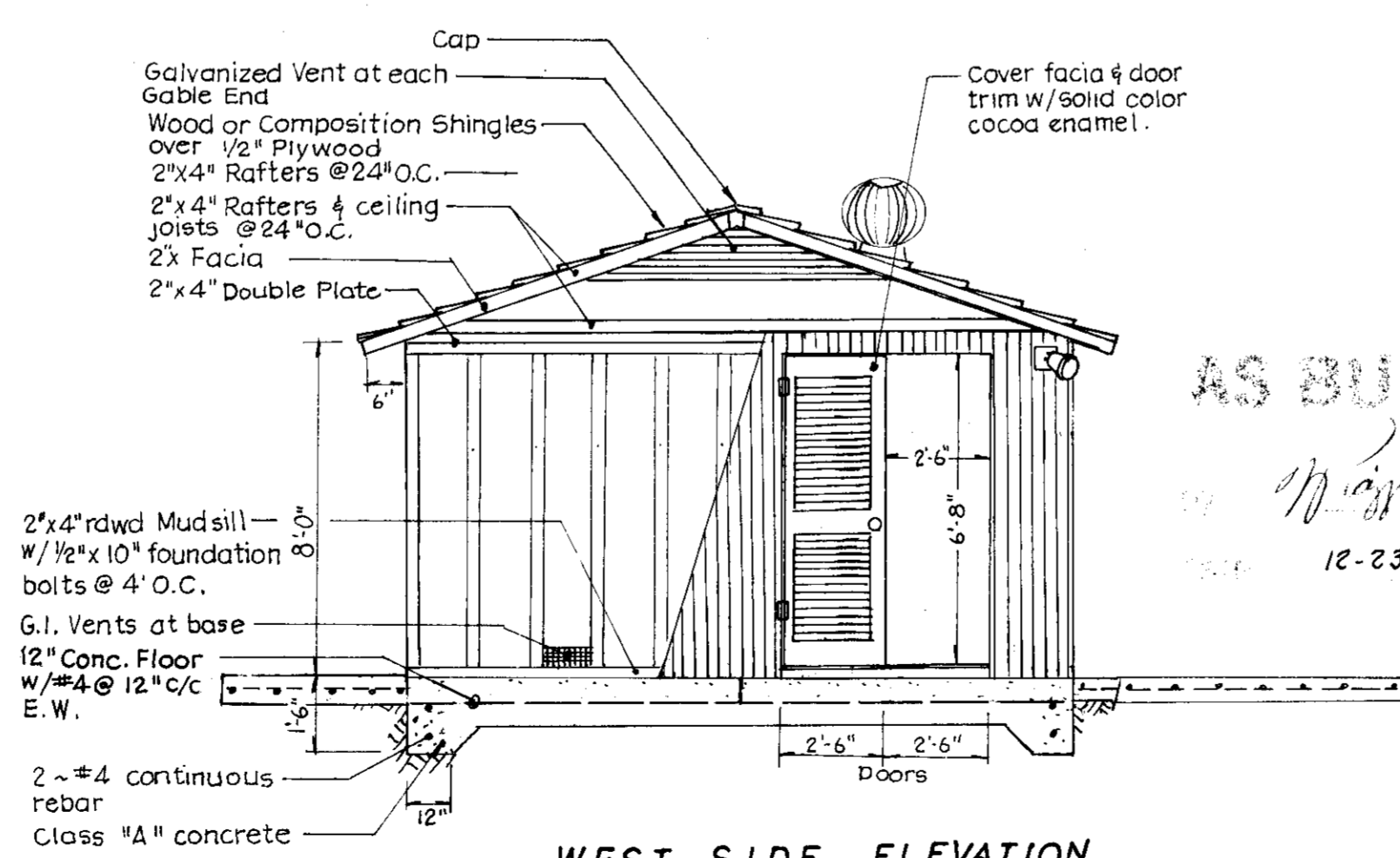
PROPOSED PLAN VIEW



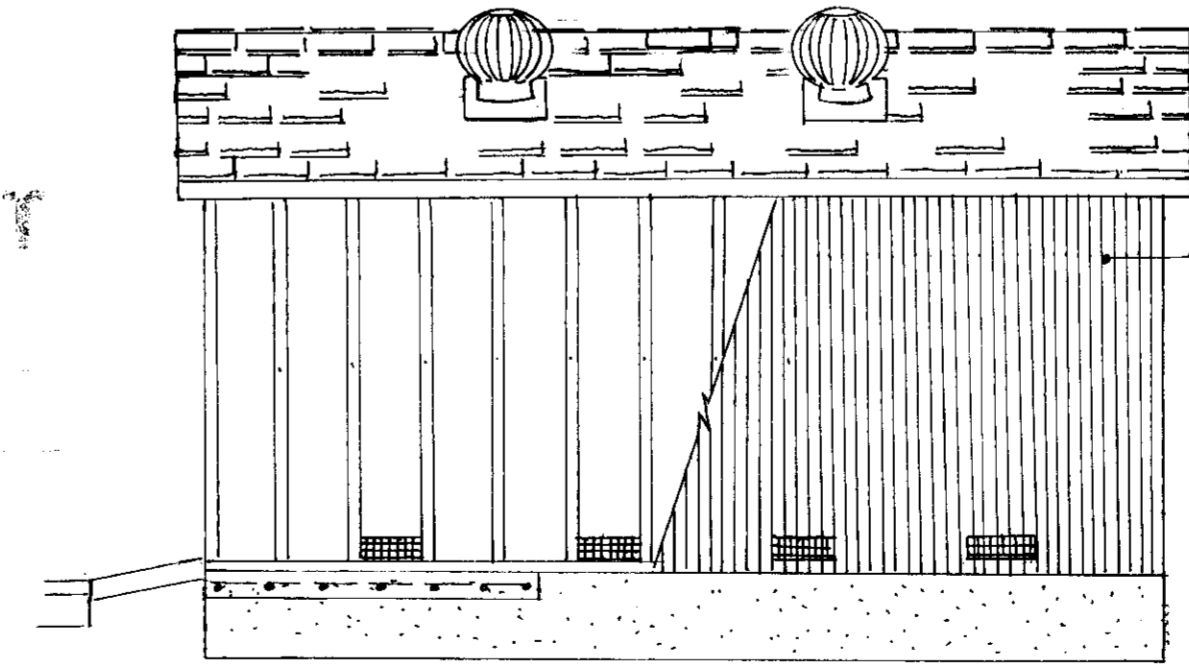
SECTION A-A
NO SCALE



DETAIL 1
NO SCALE



WEST SIDE ELEVATION



SOUTH SIDE ELEVATION

APPROVED BY: K. KJELSDEN
K. Kjeldsen
W.S.D. ENGINEER
DATE: 7-24-91

SECTION A-A

NO.	DATE	REVISIONS	BY	DESIGN	DRAWN BY
1	7/26/91	Add Well information	TP		
2	10-8-91	REVISE WELL	T.P.		
3	12-23-91	As-Built	9RB		
4	1-18-94	Wall note	TR		

APPROVED BY: Henry M. Hirata RCE No. 21258
19_____
SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

BAUMBACH & PIAZZA
CIVIL ENGINEERS
SURVEYORS
323 W. ELM ST. LODI, CALIF.
95240 PH: 209-366-8818

WELL SITE DETAIL

WINDWOOD SUBDIVISION
UNIT NO. 1

SHEET 10 OF 15
JOB NO. 8888
FILE NO. G-876

SU2512

Well to be drilled - Winter of '92

1. GENERAL STRUCTURAL NOTES

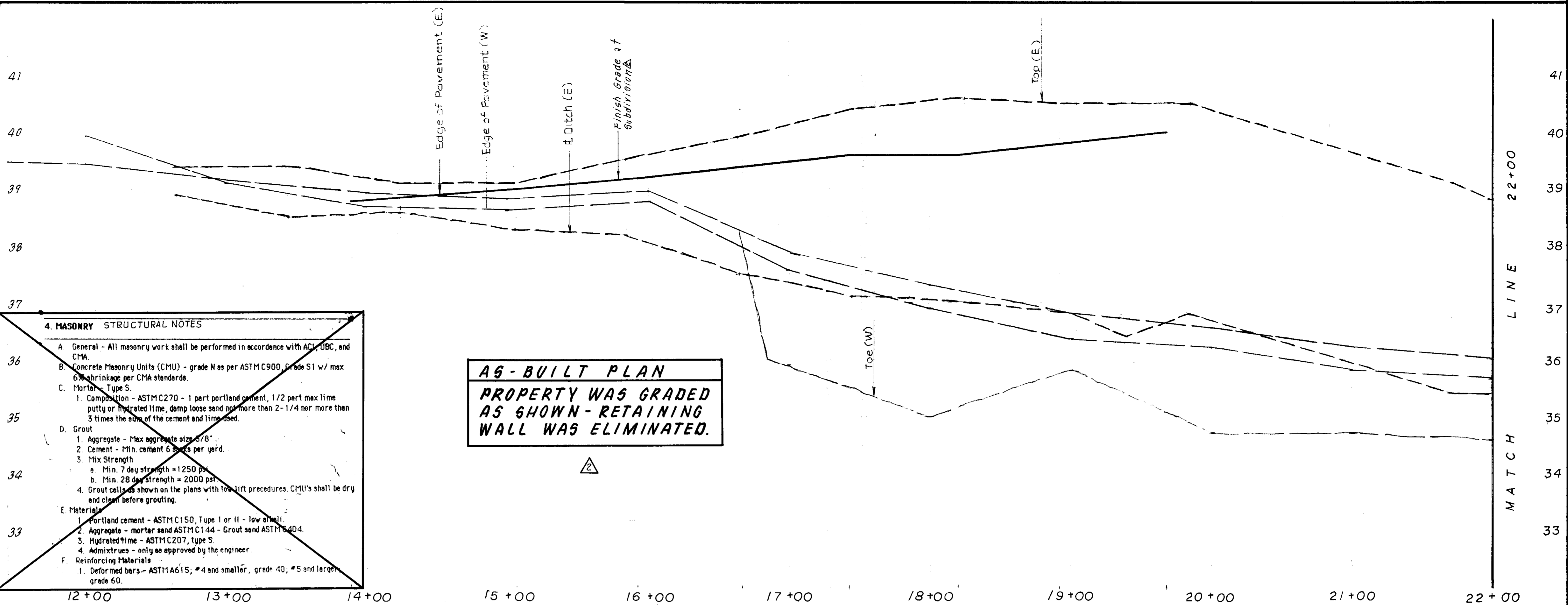
- A. All work shall be in strict accordance with the 1985 Edition of the Uniform Building Code and Standards and all publications noted herein.
- B. Details shown on the structural drawings are typical and similar details apply to conditions. Section notes and details shown on the drawings take precedence over general notes and typical details.
- C. Dimensions shown shall take precedence over scales on the plans, sections and details. Any discrepancies shall be brought to immediate attention of the engineer.
- D. All construction materials shall be set out if placed on floor or roof framing members. LOADS FROM SUCH MATERIALS SHALL NOT EXCEED DESIGN LIVE LOADS.
- E. Review of the shop drawings by the engineer is for general compliance with the drawings and specifications. The contractor shall remain responsible for all errors of detailing, construction and the correct fitting of structural members, including coordination with other trades.
- F. All detail changes desired shall be submitted to the engineer in writing. SHOP DRAWINGS DO NOT CONSTITUTE CHANGES IN WRITING. Along with a letter, the shop drawings shall show all proposed changes.
- G. Design Loads are as per Chapter 23 of the UBC and may be modified as per these notes.

2. FOUNDATIONS STRUCTURAL NOTES

- A. Design - If the design of the foundations is based on a soils report, that fact is noted on the plans. If not, all design is based on requirements of Chapter 29 of the UBC.
- B. Compaction Requirements
 - 1. Site - "Minimum site preparation shall consist of scarifying and recompacting the lower surface soils to a minimum compaction of 90% as per ASTM D1557 test procedure. All fill material placed shall be placed in 6" layers and compacted as noted. Min. depth = 12".
 - 2. Paving - All areas to be paved shall be treated as site above to a min. depth of 12".
 - 3. Foundations - The bottom of all foundations where possible shall be placed on native soil in an undisturbed state or on approved engineering fill. All footings shall be inspected by the engineer or his representative before placing concrete.
 - 4. Select Backfill - Select Backfill for structures shall be treated as site above.

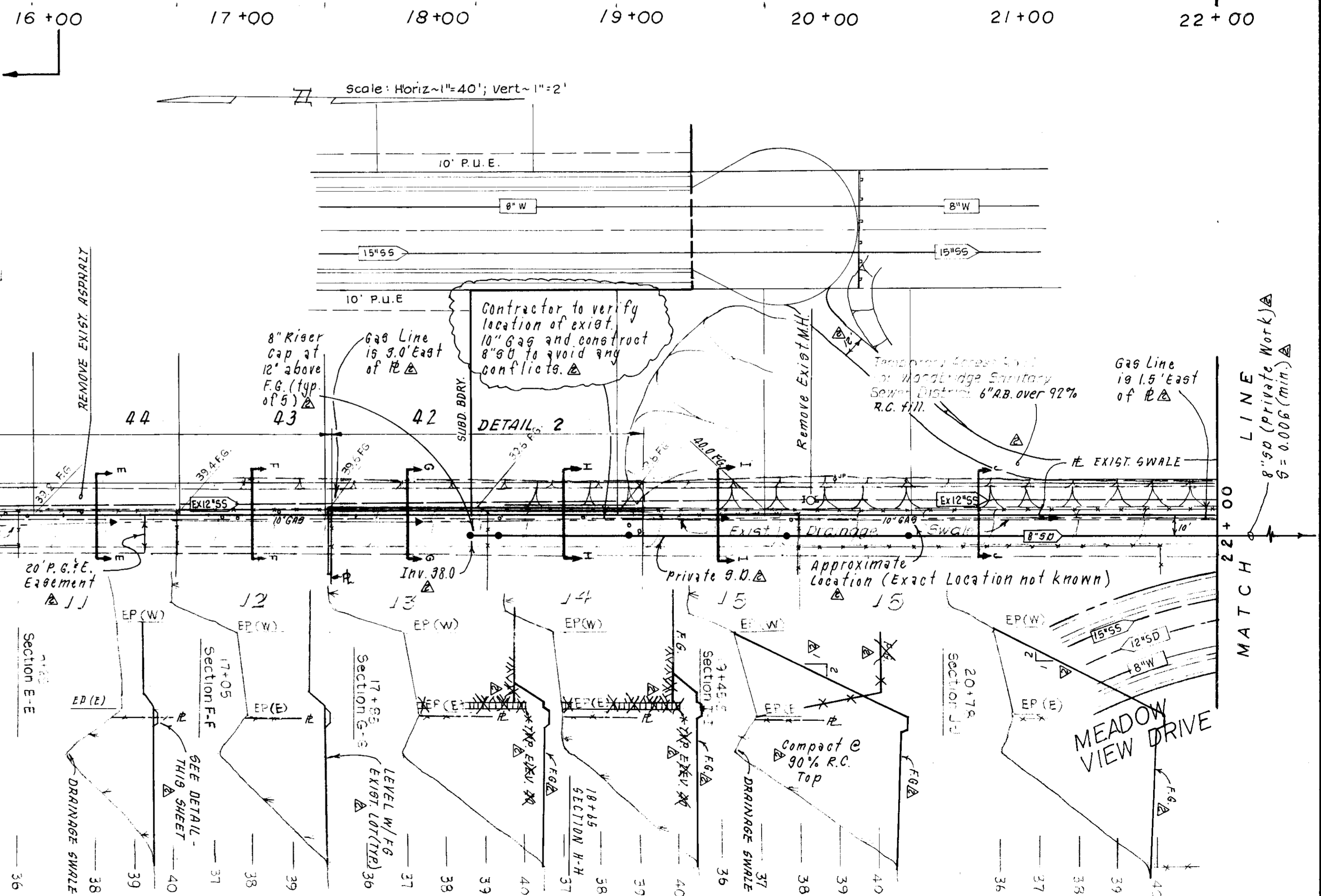
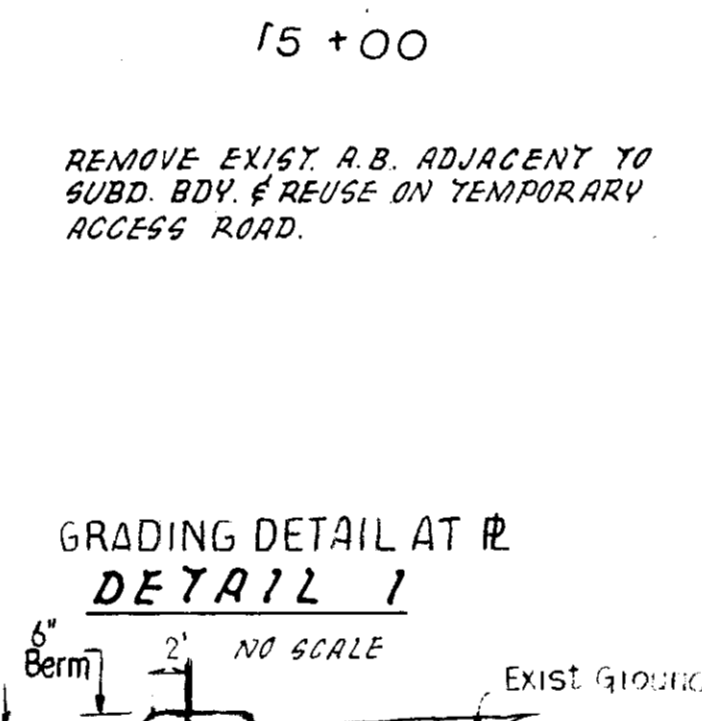
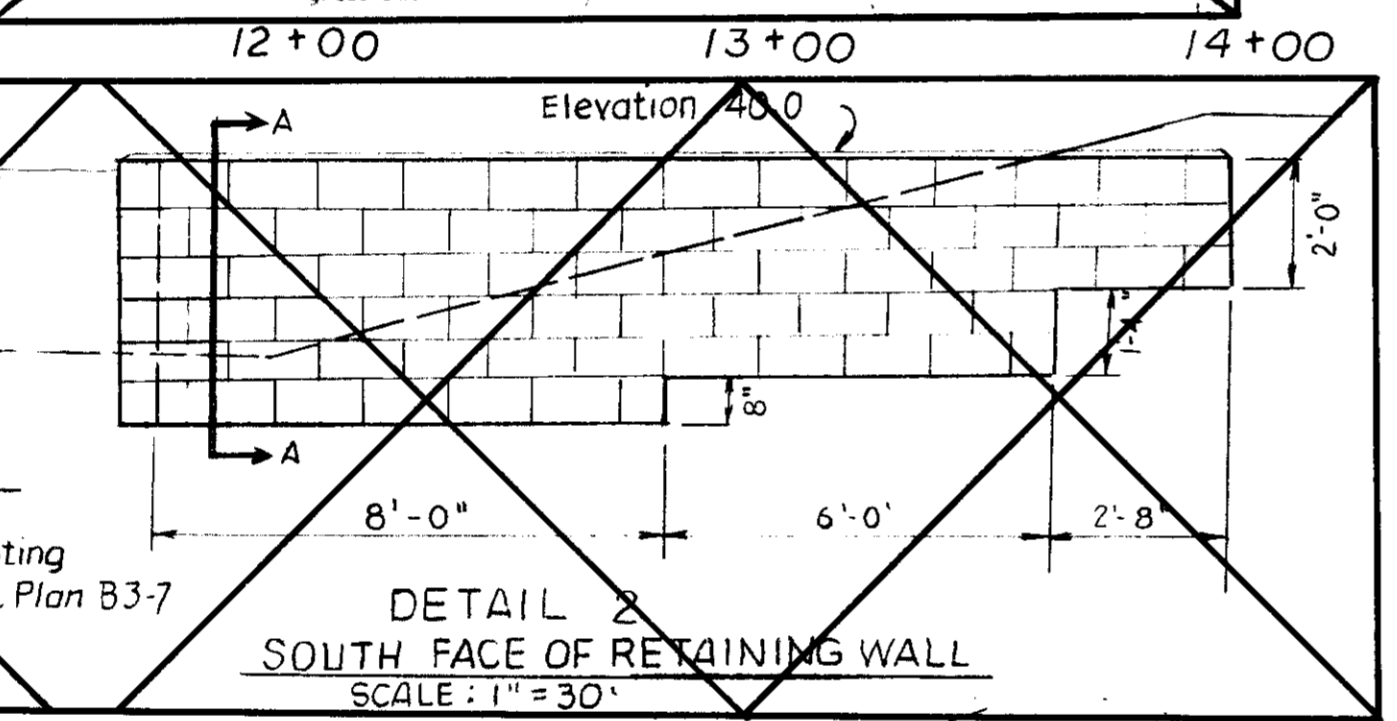
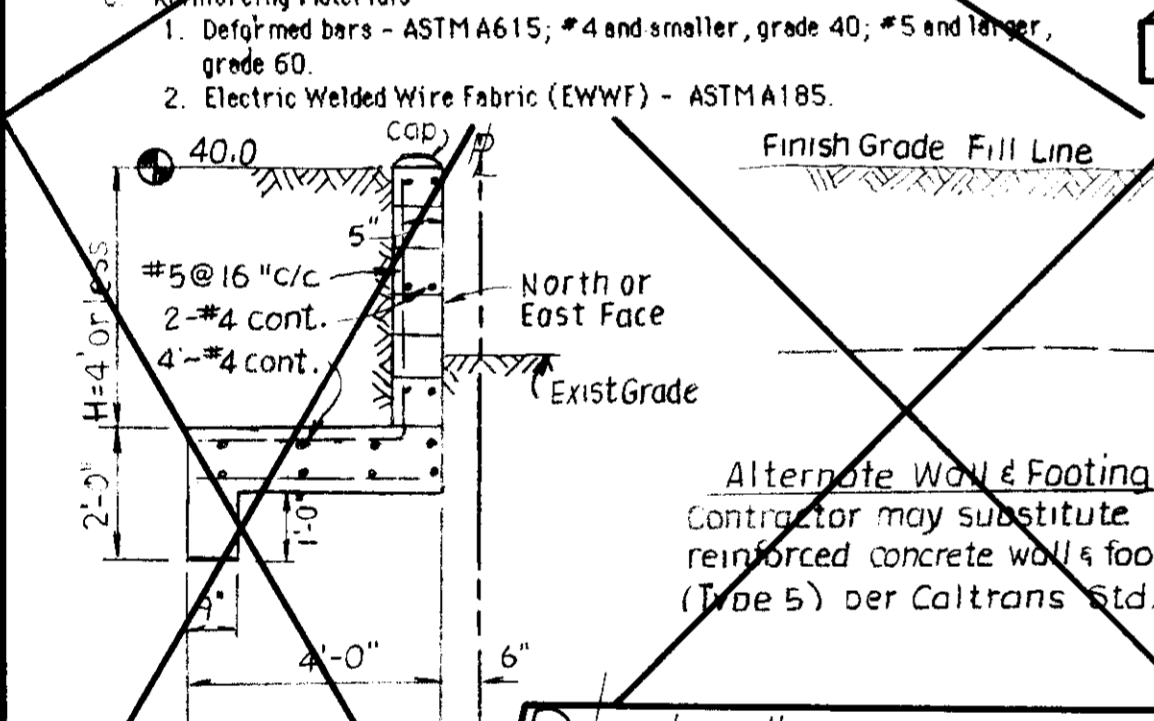
3. CONCRETE STRUCTURAL NOTES

- A. General - All concrete work shall be performed in accordance with ACI and UBC codes.
- B. Concrete Strength - Unless otherwise noted on the plans concrete shall obtain a min. 28 day strength of 2000 psi.
 - 1. Cement - min. 5 sacks per yard.
 - 2. Water - max. 7 gals. per yard.
 - 3. Aggregates - max. size 3/4".
 - 4. Slump - 4" max.
 - 5. Admixtures - only as approved by the engineer.
 - 6. Curing - Keep wet min. 7 days, or membrane curing compound approved by the engineer.
 - 7. Vibration - All concrete shall be vibrated into place w/ a mechanical vibrator.
 - 8. Form removal - side forms of foundations and slabs min. 2 days.
 - 9. Testing - in accordance with ACI - 301-72, Chapter 16.
- C. Reinforcing Materials
 - 1. Deformed bars - ASTM A615, #4 and smaller, grade 40; #5 and larger, grade 60.
 - 2. Electric Welded Wire Fabric (EWWF) - ASTM A185.



4. MASONRY STRUCTURAL NOTES

- A. General - All masonry work shall be performed in accordance with ACI, UBC, and CMAA.
- B. Concrete Masonry Units (CMU) - grade N as per ASTM C900, Grade S1 w/ max. 6% shrinkage per CMAA standards.
- C. Mortar - Type S.
 - 1. Composition - ASTM C270 - 1 part portland cement, 1/2 part max lime putty or hydrated lime, damp loose sand not more than 2-1/4 nor more than 3 times the sum of the cement and lime used.
- D. Grout
 - 1. Aggregate - Max aggregate size 3/8".
 - 2. Cement - Min. cement 6 sacks per yard.
 - 3. Mix Strength
 - a. Min. 7 day strength = 1250 psi.
 - b. Min. 28 day strength = 2000 psi.
 - 4. Grout cells as shown on the plans with low lift procedures. CMU's shall be dry and clean before grouting.
- E. Materials
 - 1. Portland cement - ASTM C150, Type I or II - low alkali.
 - 2. Aggregate - mortar sand ASTM C144 - Grout sand ASTM C404.
 - 3. Hydrated lime - ASTM C207, Type S.
 - 4. Admixtures - only as approved by the engineer.
- F. Reinforcing Materials
 - 1. Deformed bars - ASTM A615, #4 and smaller, grade 40; #5 and larger, grade 60.



APPROVED BY: K. KJELSDEN
Kenneth Kjeldsen
 W.S.D. ENGINEER
 DATE: 7.24.91

AS BUILT
1/10/91
 12-23-91

NO.	DATE	REVISIONS	BY	DESIGN	DRAWN BY
1	7/26/91	See Sheets 1, 5, & 10			

APPROVED BY: Henry M. Hirata RCE No. 21258
 _____, 19____
 SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

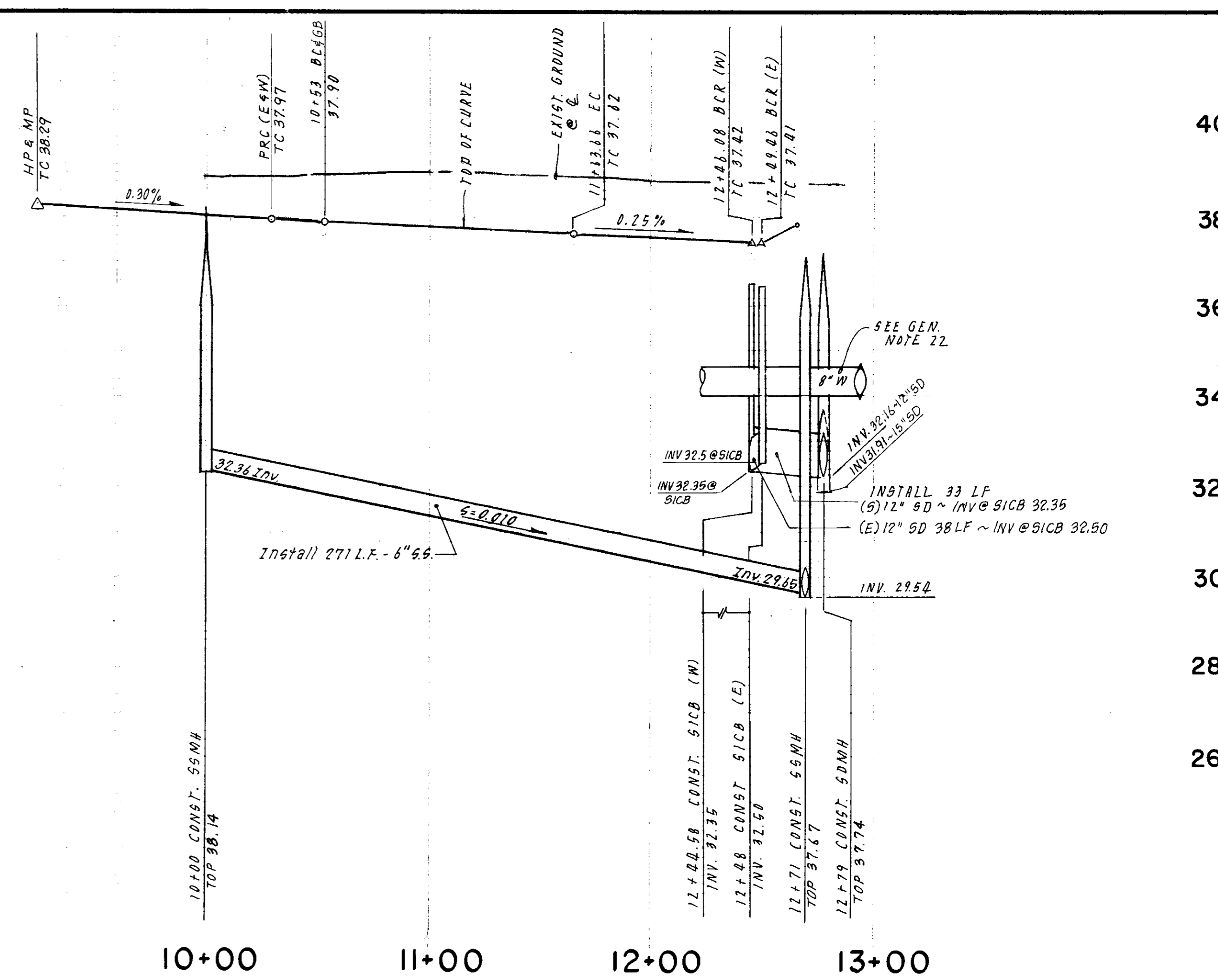
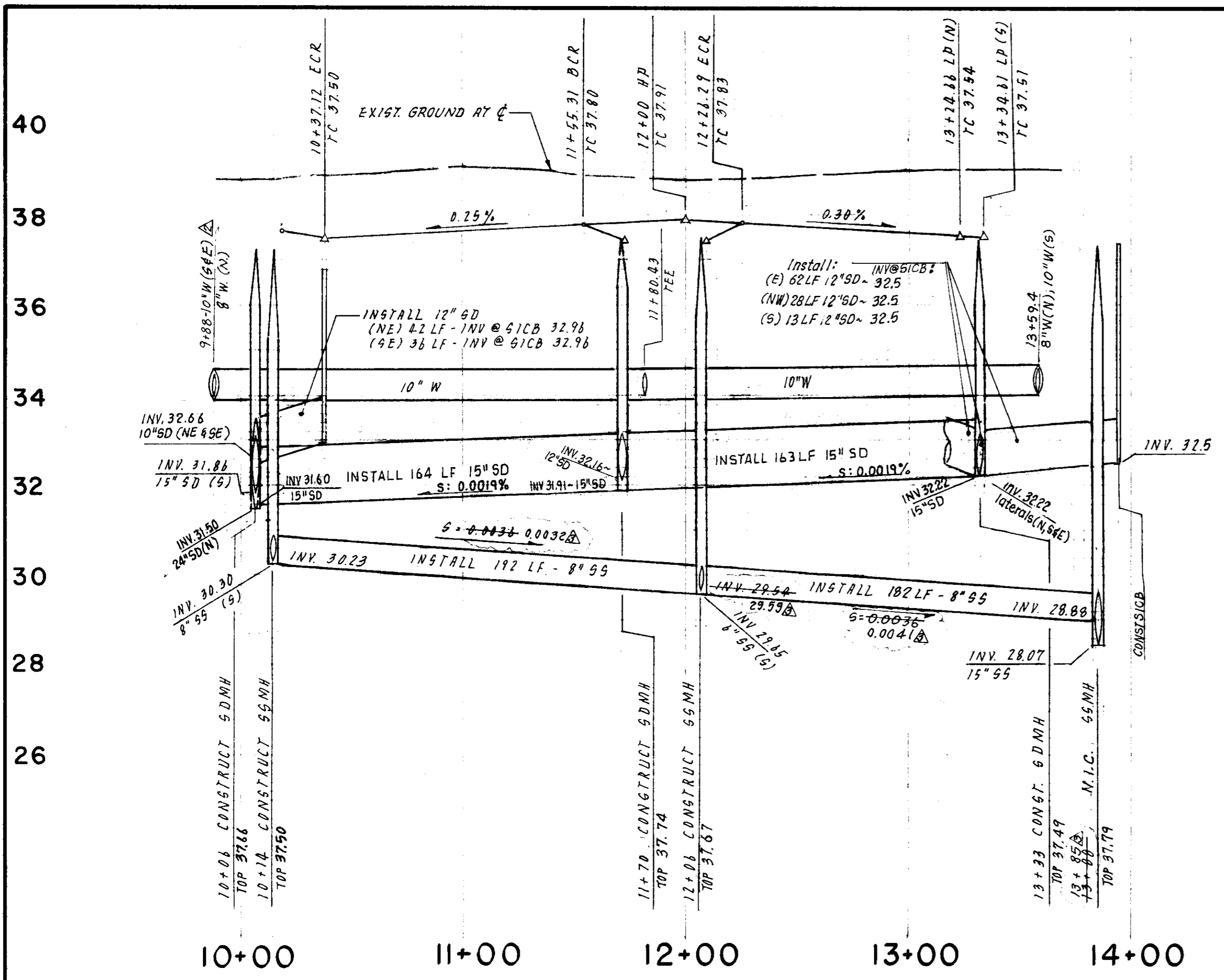
BAUMBACH & PIAZZA
 CIVIL ENGINEERS
 SURVEYORS
 323 W. ELM ST. LODI, CALIF.
 95240 PH: 209-369-6618

GRADING ON EAST PROPERTY LINE

**"WINDWOOD" SUBDIVISION
 UNIT NO. 1**

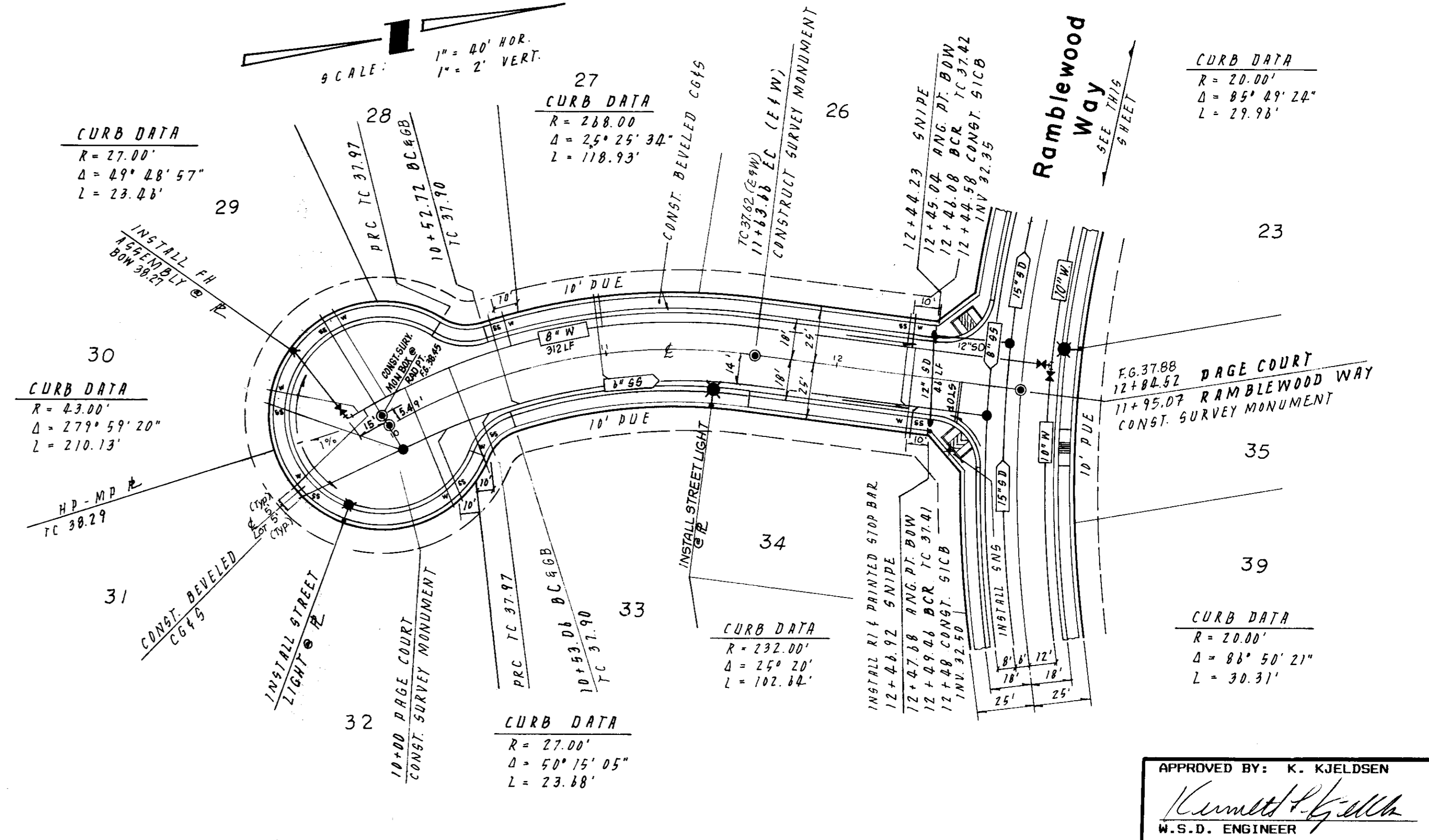
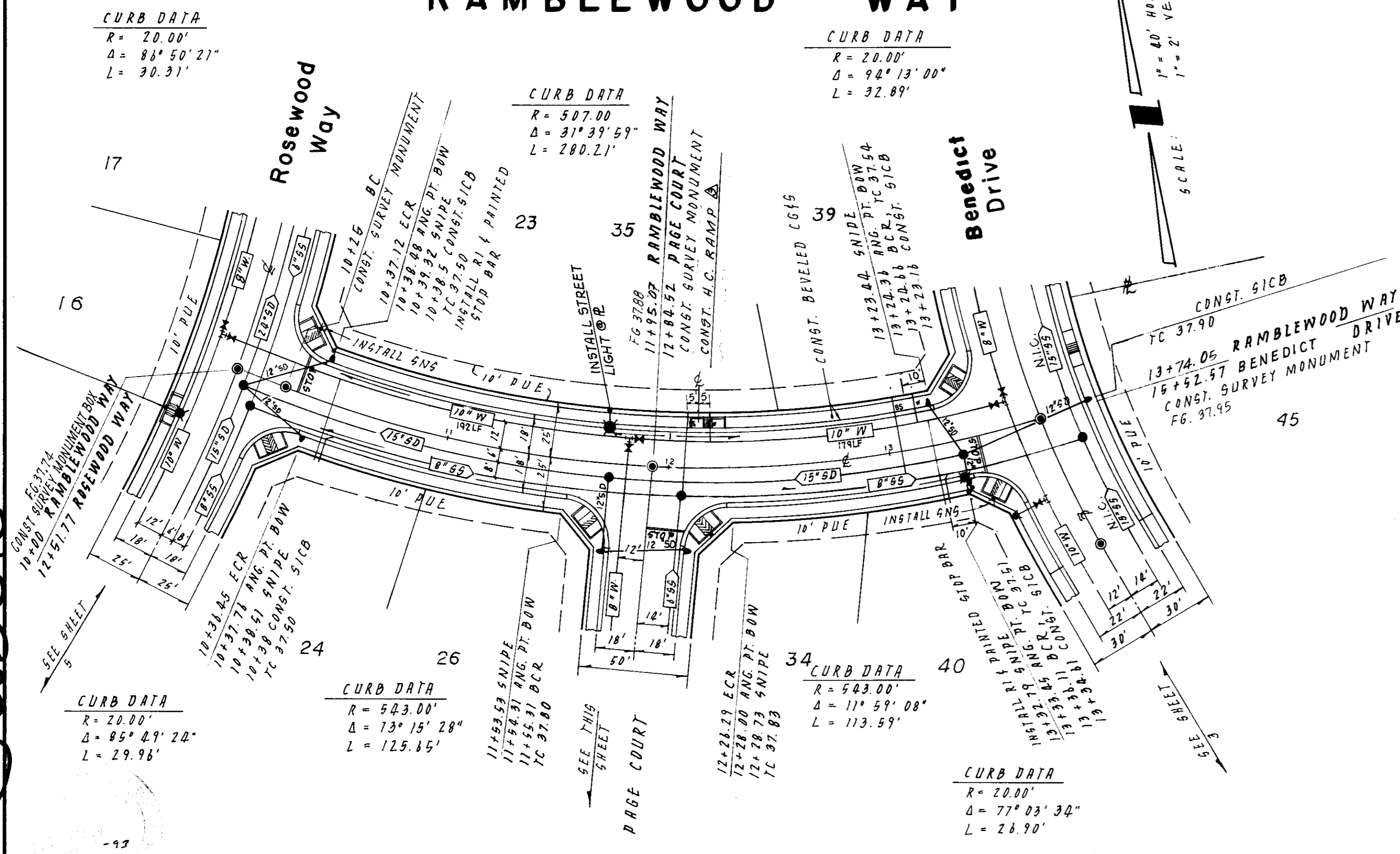
SHEET 9 OF 15
 JOB NO. 888B
 FILE NO. G-87b

SUNSHINE



RAMBLEWOOD WAY

PAGE COURT



SU 2515

NO.	DATE	REVISIONS	BY	DESIGN T.P.	DRAWN BY
1	7/26/91	See Sheets 1, 5, & 10			E.S. 4 G.R.
2	8-12-91	10" W (S&E), 8" W (N)			
3	12-23-91	As Built			

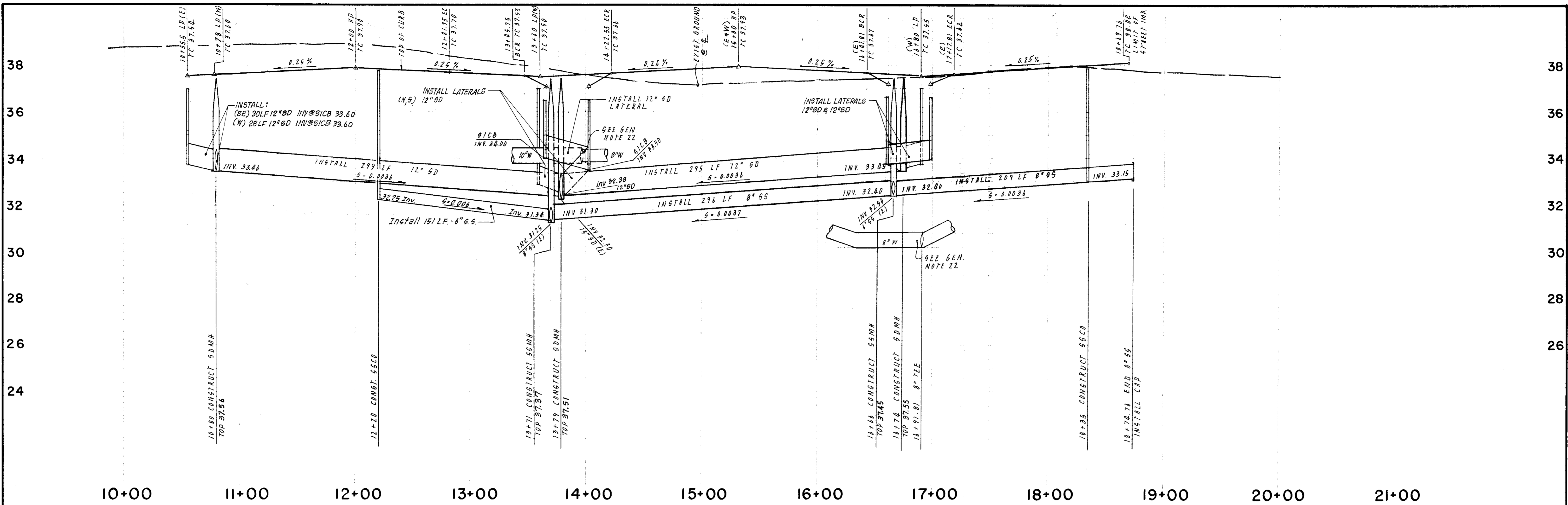
APPROVED BY: Henry M. Hirata RCE No. 21258
 19
 SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

BAUMBACH & PIAZZA
 CIVIL ENGINEERS
 SURVEYORS
 323 W. ELM ST. LODI, CALIF.
 95240 PH: 209-368-6616

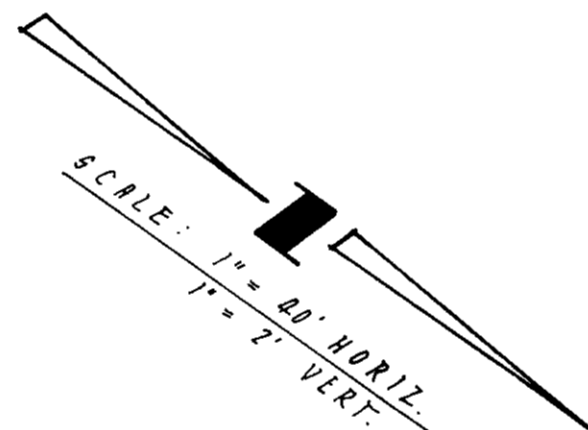
RAMBLEWOOD WAY
 Rosewood Way to Benedict Drive
PAGE COURT
 290 S/Ramblewood Way to Rambleswood Way

"WINDWOOD" SUBDIVISION
 UNIT NO. 1
 SHEET 8 OF 15
 JOB NO 8888
 FILE NO. 6-876

APPROVED BY: K. KJELSDEN
Kenneth Kjeldsen
 W.S.D. ENGINEER
 DATE: 7-24-91

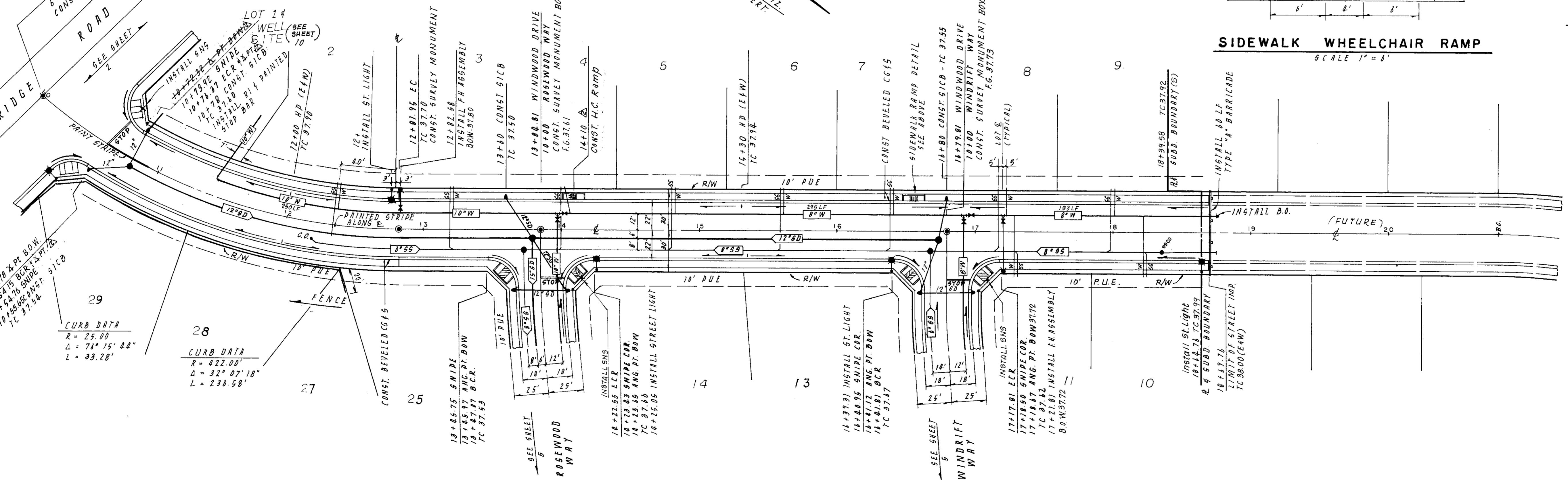
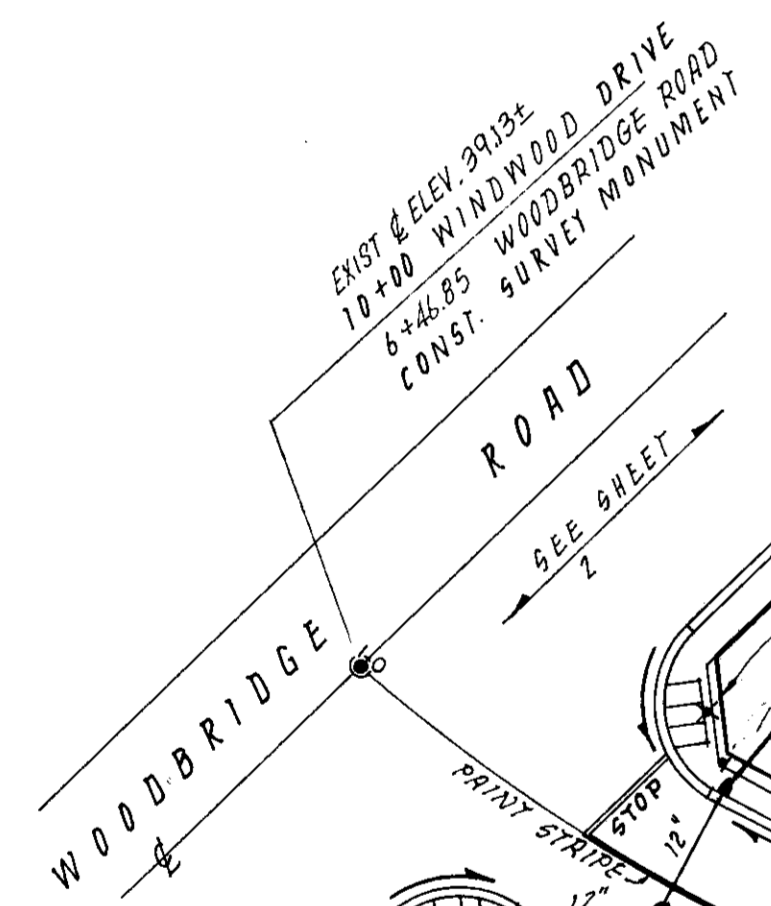
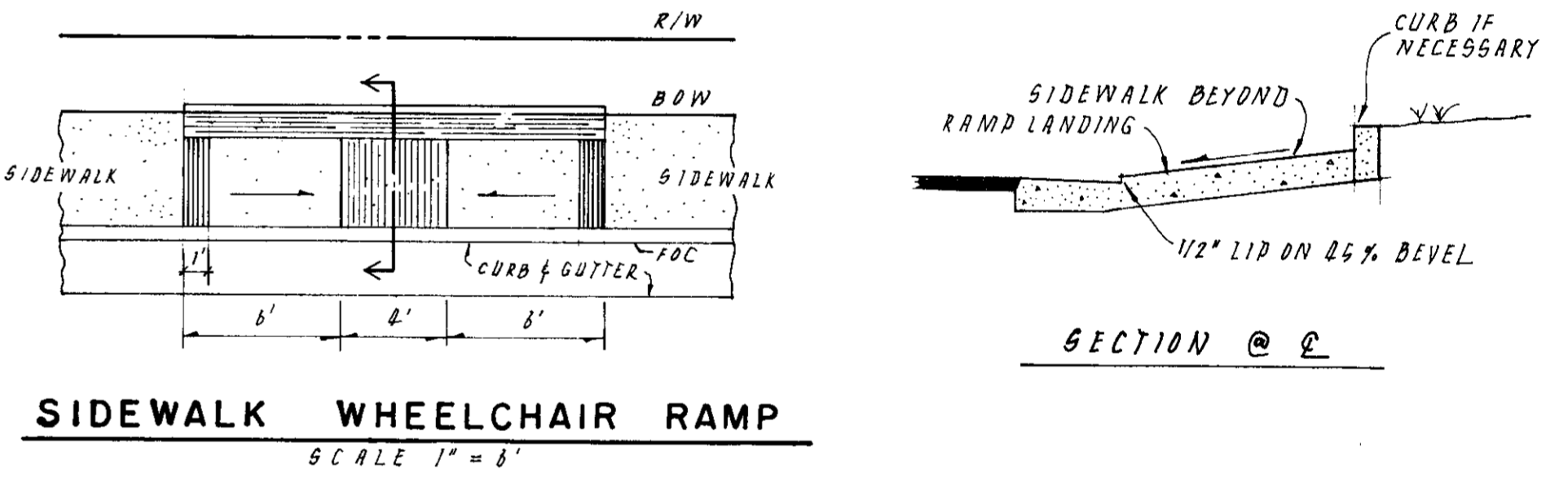


WINDWOOD DRIVE



CURB DATA
 $R = 25.00'$
 $\Delta = 187^\circ 30' 23''$
 $L = 43.91'$

CURB DATA
 $R = 378.00'$
 $\Delta = 28^\circ 21' 31''$
 $L = 187.09'$



SU 2516

10 JULY
[Signature]
 12-23-91

APPROVED BY: K. KJELSDEN
Kenneth A. Kjeldsen
 W.S.D. ENGINEER
 DATE: 7-24-91

NO.	DATE	REVISIONS	BY	DESIGN	T.P.	DRAWN BY	E.S. & G.R.
1	7/26/91	See Sheets 1, 5, 4, 10	TP				
2	12-23-91	As Built	SRB				

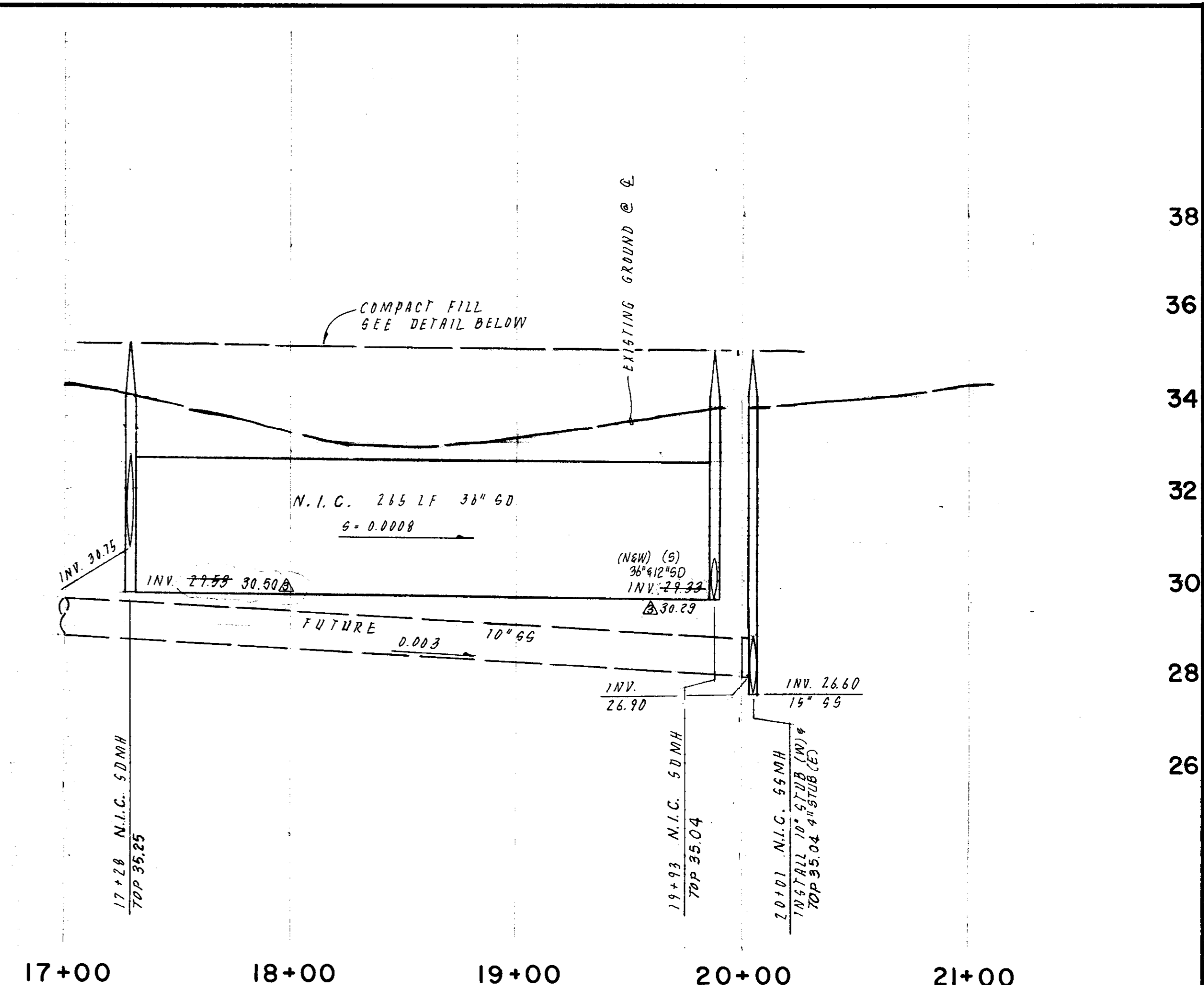
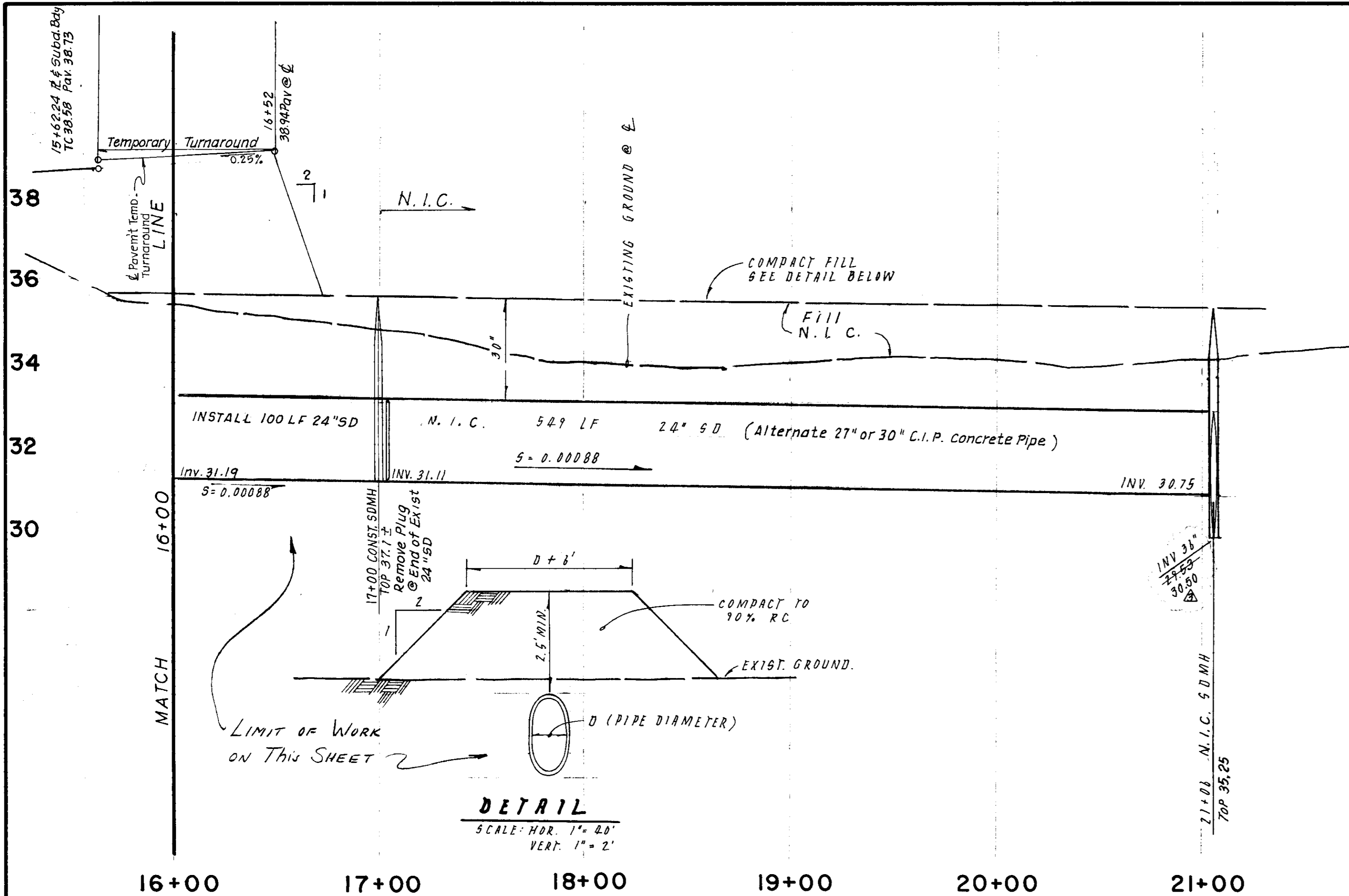
APPROVED BY: Henry M. Hirata RCE No. 21258
 _____, 19____
 SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

BAUMBACH & PIAZZA
 CIVIL ENGINEERS
 SURVEYORS
 323 W. ELM ST. LODI, CALIF.
 95240 PH: 209-368-8618

WINDWOOD DRIVE
 Woodbridge Road to 190' N/Windrift Way

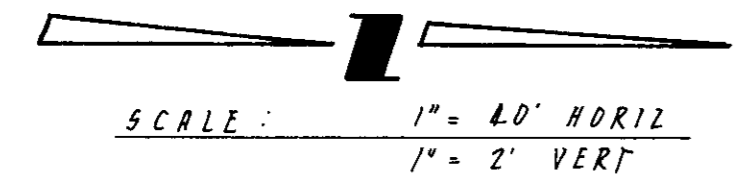
"WINDWOOD" SUBDIVISION
 UNIT NO. 1

SHEET 7 OF 15
 JOB NO.
 FILE NO. G-878



ROSEWOOD (FUTURE) WAY

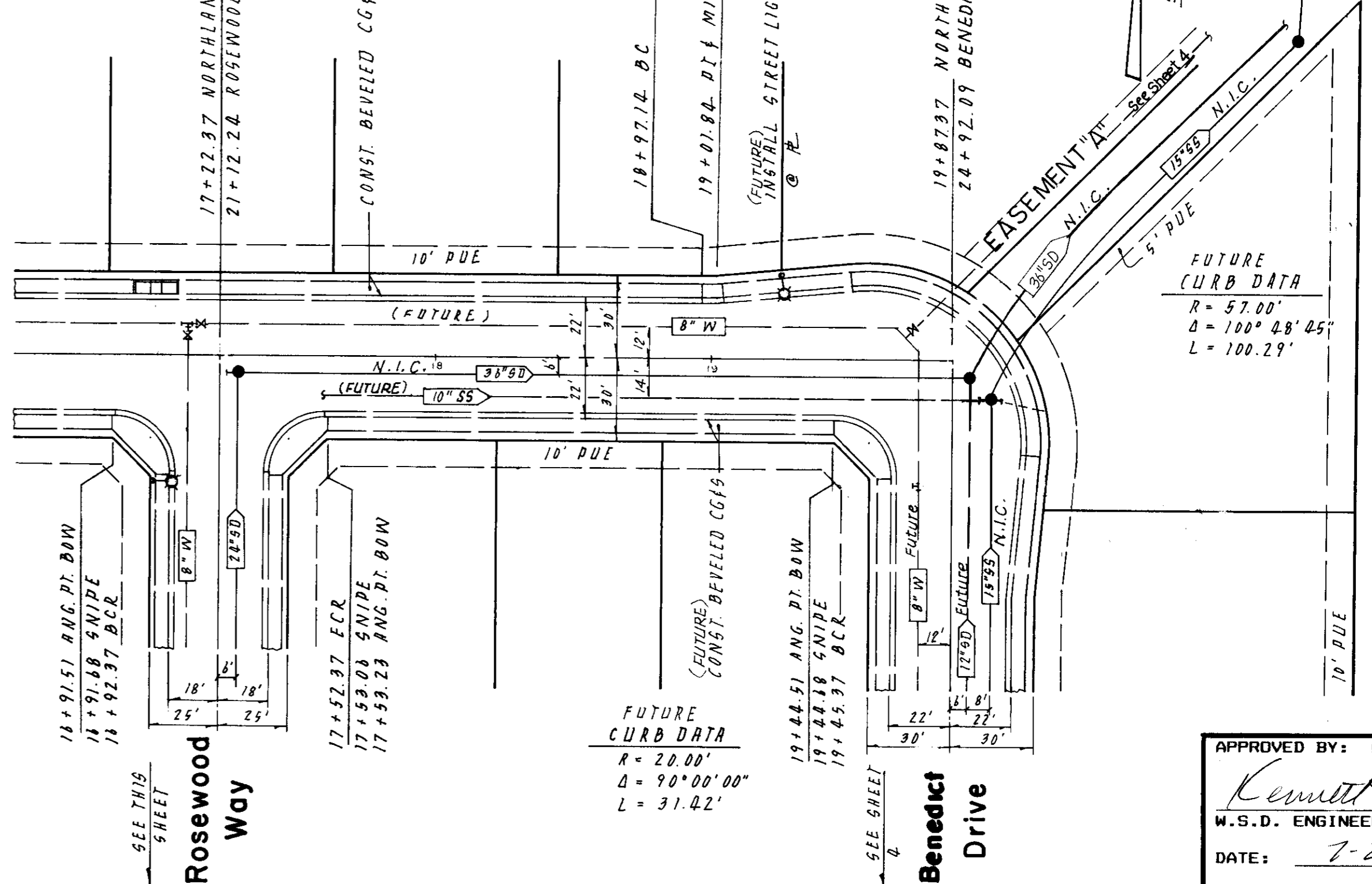
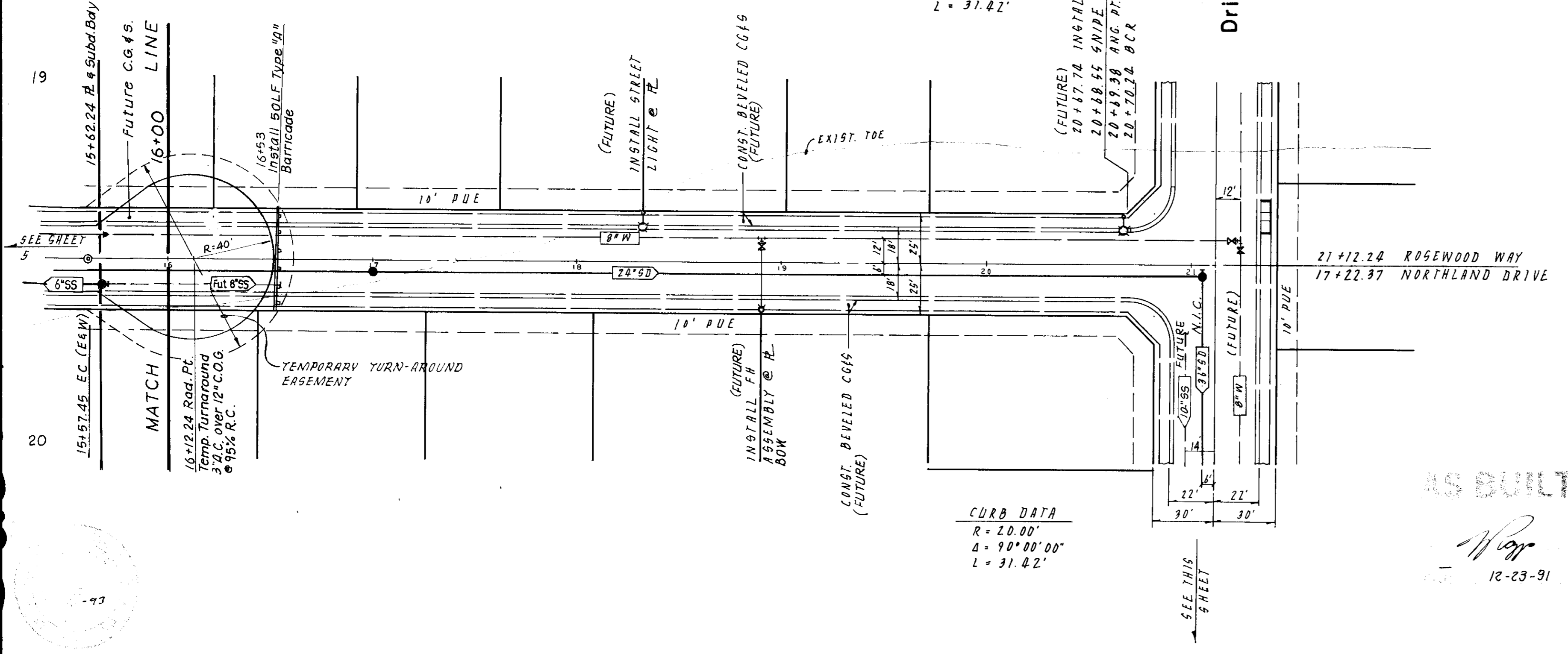
N. I. C. DRIVE (FUTURE)



CURB DATA
R = 20.00'
Δ = 90°00'00"
L = 31.42'

CURB DATA
R = 100.00'
Δ = 5°24'23"
L = 9.80'

FUTURE CURB DATA
R = 57.00'
Δ = 100°48'05"
L = 100.29'



SU2517

NO BUILT
12-23-91

NO.	DATE	REVISIONS	BY	DESIGN	T.P.	DRAWN BY	DATE
1	7/26/91	See Sheets 1, 5, & 10	TP				
2	12-23-91	As Built	988				

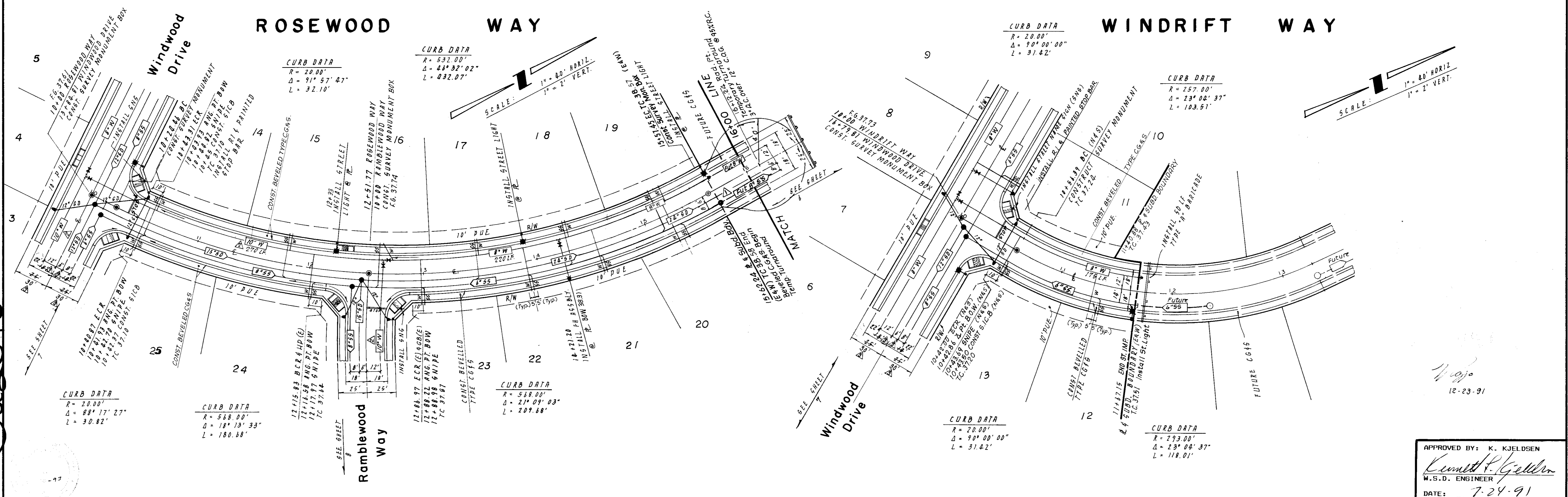
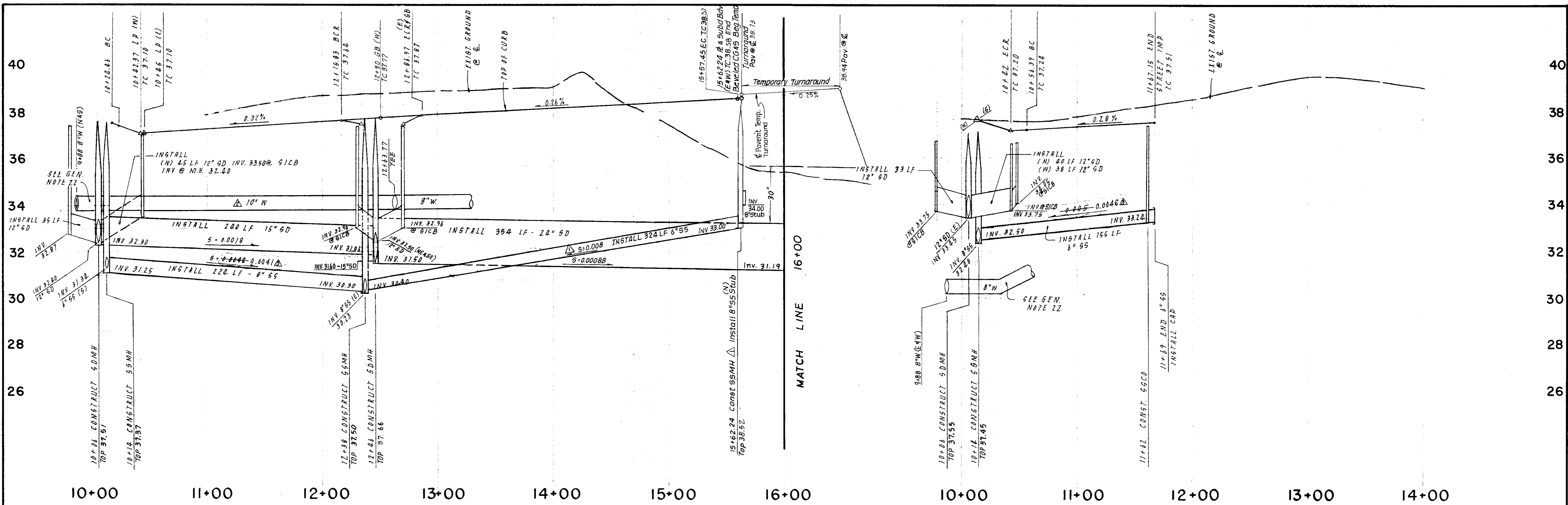
APPROVED BY: Henry M. Hirata RCE No. 21258
 SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

BAUMBACH & PIAZZA
 CIVIL ENGINEERS
 SURVEYORS
 323 W. ELM ST. LODI, CALIF.
 95240 PH: 209-368-6618

ROSEWOOD WAY
 310' N/Ramblewood Way to Drive
 Drive
 Rosewood Way to Benedict Drive

"WINDWOOD" SUBDIVISION
 UNIT NO. 1

APPROVED BY: K. KJELSDEN Kenneth Kjeldsen W.S.D. ENGINEER DATE: 7-24-91	SHEET 6 OF 15 JOB NO. 8888 FILE NO. G-876
--	---



SU2518

NO.	DATE	REVISIONS	BY	DESIGN	T.P.	DRAWN BY	E.S. & GR.
1	7/26/91	Replace SSCO w/ MH	TP				
2	8-12-91	8" W. 20 10" W. Plan & Profile	TP				
3	12-23-91	Ag Build	SRB				

APPROVED BY: Henry M. Hirata RCE No. 21258

DATE: 7/27/91

SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

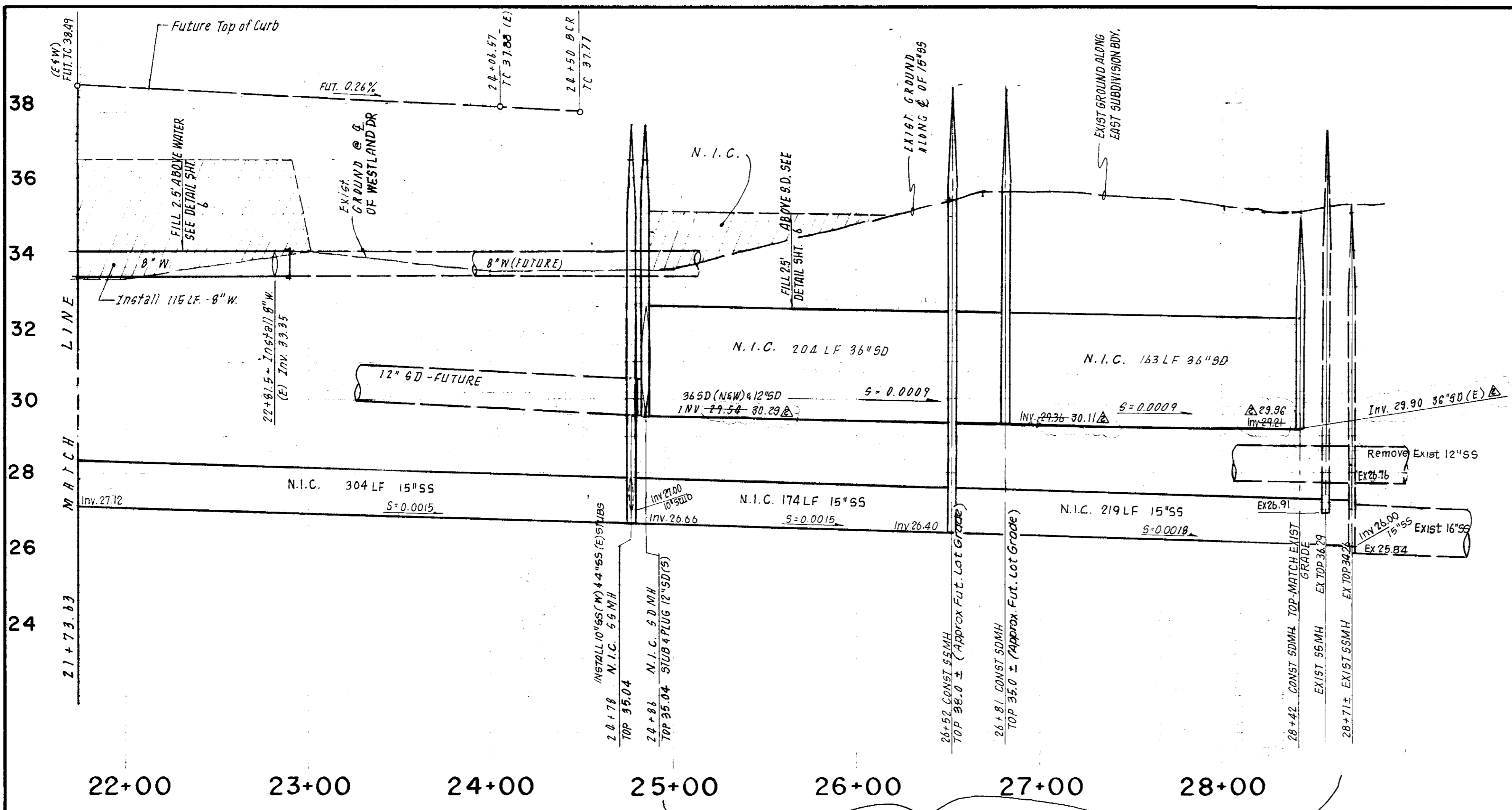
BAUMBACH & PIAZZA
 CIVIL ENGINEERS
 SURVEYORS
 323 W. ELM ST. LODI, CALIF.
 95240 PH: 209-368-6618

ROSEWOOD WAY
 Windwood Drive to 310' N/Ramblewood Way
WINDRIFT WAY
 Windwood Drive to 170' N/Windwood Drive

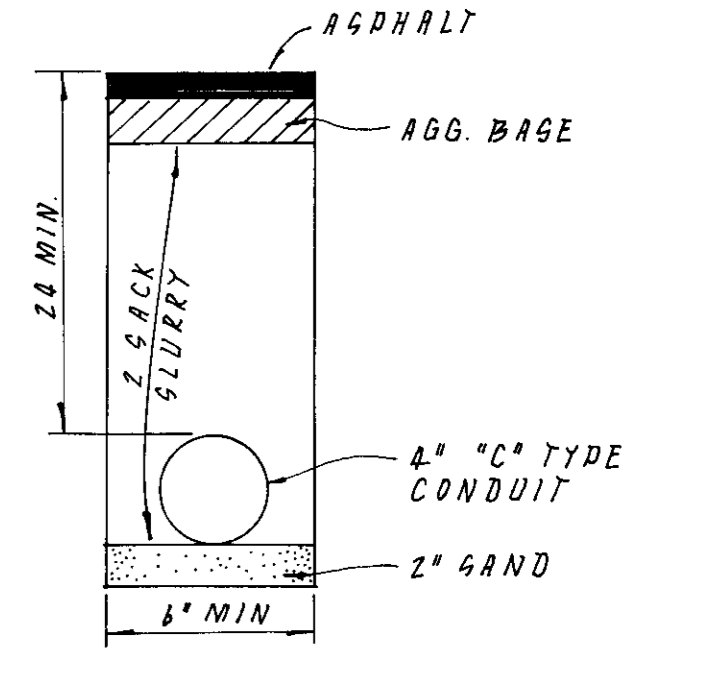
"WINDWOOD" SUBDIVISION
 UNIT NO 1

APPROVED BY: K. KJELDSSEN
Kenneth K. Gjelleren
 W.S.D. ENGINEER
 DATE: 7-24-91

SHEET 5 OF 15
 JOB NO. 8888
 FILE NO.



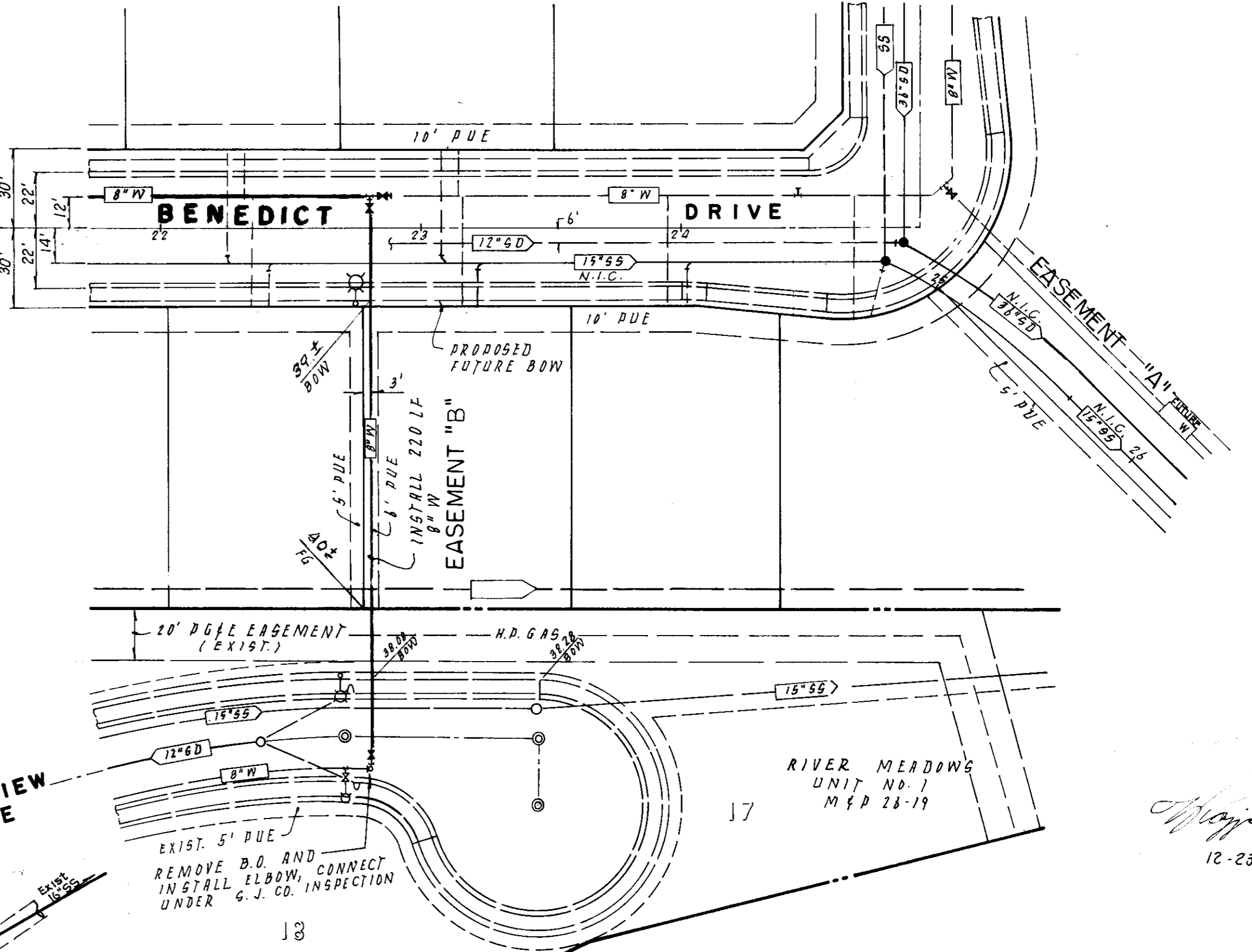
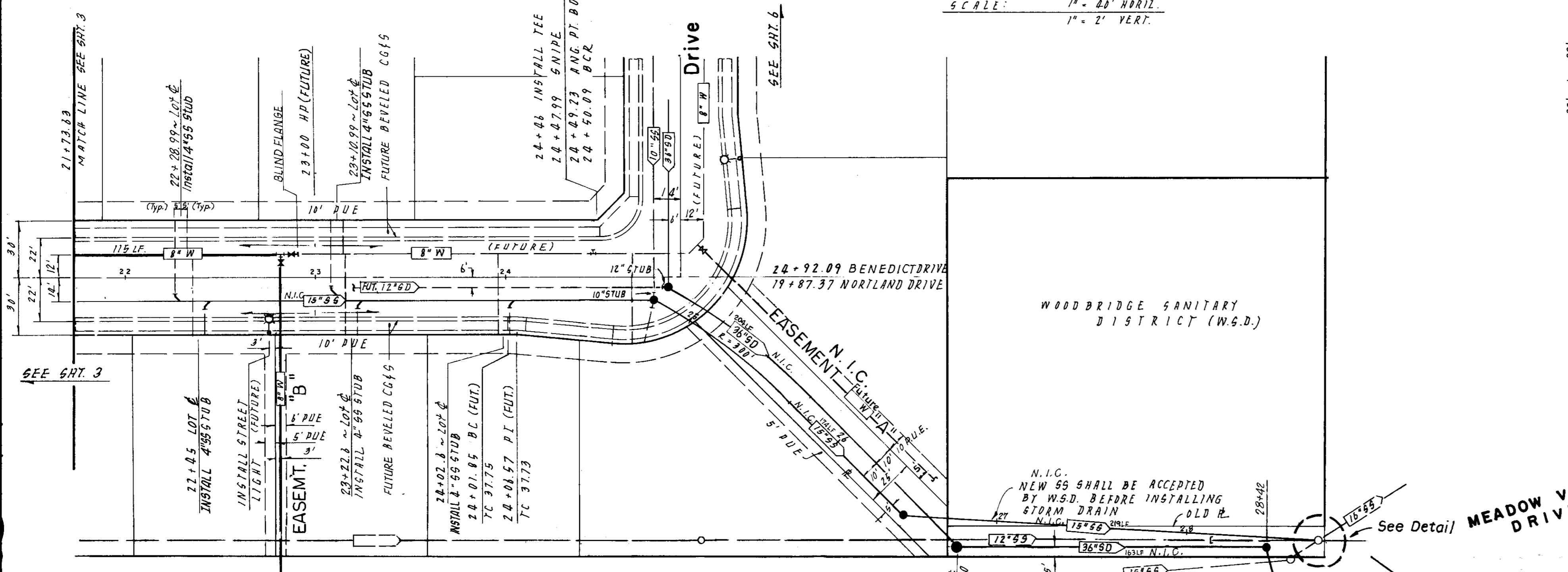
38
36
34
32
30
28
26
24



PACIFIC BELL TRENCH DETAIL

BENEDICT DRIVE EASEMENT "A" N.I.C.

STATIONING ON ϕ OF 15" SS PIPE
SCALE: 1" = 40' HORIZ.
1" = 2' VERT.



CURB DATA
R = 100.00'
 $\Delta = 5^\circ 22' 23''$
L = 9.44'

APPROVED BY: K. KJELSDEN
Kenneth P. Golden
W.S.D. ENGINEER
DATE: 7.24.91

NOTE: THIS SHEET IS FOR WATER LINE CONSTRUCTION ONLY

SU 2519

NO.	DATE	REVISIONS	BY	DESIGN	TP	DRAWN BY	ES.
1	7/26/91	See Sheets 1, 5, & 10	TP				
2	12-23-91	As Built	GRB				

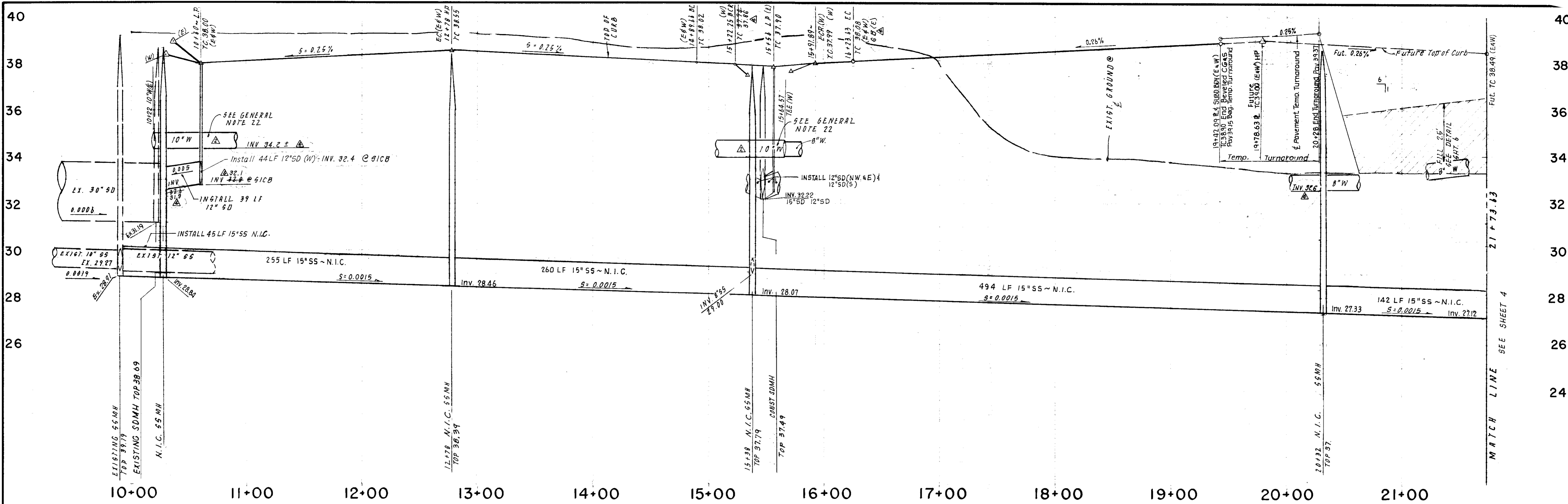
APPROVED BY: Henry M. Hirata RCE No. 21258
_____, 19____
SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

BAUMBACH & PIAZZA
CIVIL ENGINEERS & SURVEYORS
323 W. ELM ST. LODI, CALIF. 95240
PH: 209-368-6618

BENEDICT DRIVE
620' N/ Rambowood Drive to Northland Drive
EASEMENT "A" - N.I.C.
EASEMENT "B" Water

"WINDWOOD" SUBDIVISION
UNIT NO. 1

SHEET 4 OF 15
JOB NO. 8888
FILE NO.



CURB DATA
 R = 20.00'
 Δ = 91° 25' 16"
 L = 31.91'

CURB DATA
 R = 378.00'
 Δ = 31° 51' 51"
 L = 210.22'

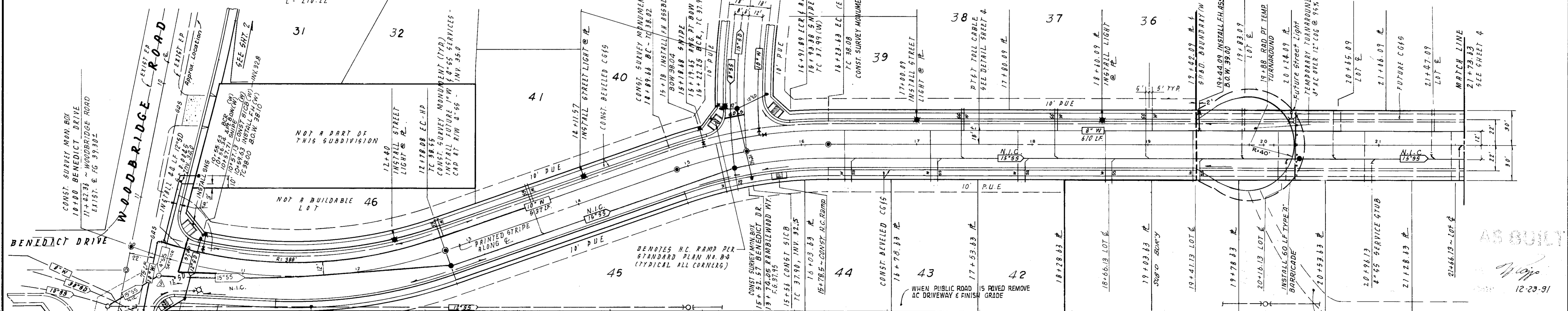
CURB DATA
 R = 422.00'
 Δ = 4° 00' 04"
 L = 34.38'

CURB DATA
 R = 422.00'
 Δ = 4° 32' 41"
 L = 33.47'

SCALE: 1" = 40' HOR.
 1" = 2' VERT.

B E N E D I C T

D R I V E



WOODBRIDGE ROAD
 RAMBLEWOOD WAY
 BENEDICT DRIVE
 LOT 31, 32, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47
 CONTRACTOR SHALL MAINTAIN ACCESS TO SANITARY DISTRICT ROADWAY AT ALL TIMES (6" x 12" WIDE MIN.)
 REMOVAL MAY BE LIMITED TO CONE ONLY AND FILLING N.R. W/ SAND.
 APPROVED BY: K. KJELSDEN
 W.S.D. ENGINEER
 DATE: 7-

NO.	DATE	REVISIONS	BY	DESIGN	T.P.	DRAWN BY	E.S. & G.R.
1	7/26/91	See Sheets 1, 5, & 10	TP				
2	8-12-91	8" W. to 10" W. Profile	TP				
3	8-10-91	Move 55MH	TP				
4	10-23-91	As 8/11	GRP				

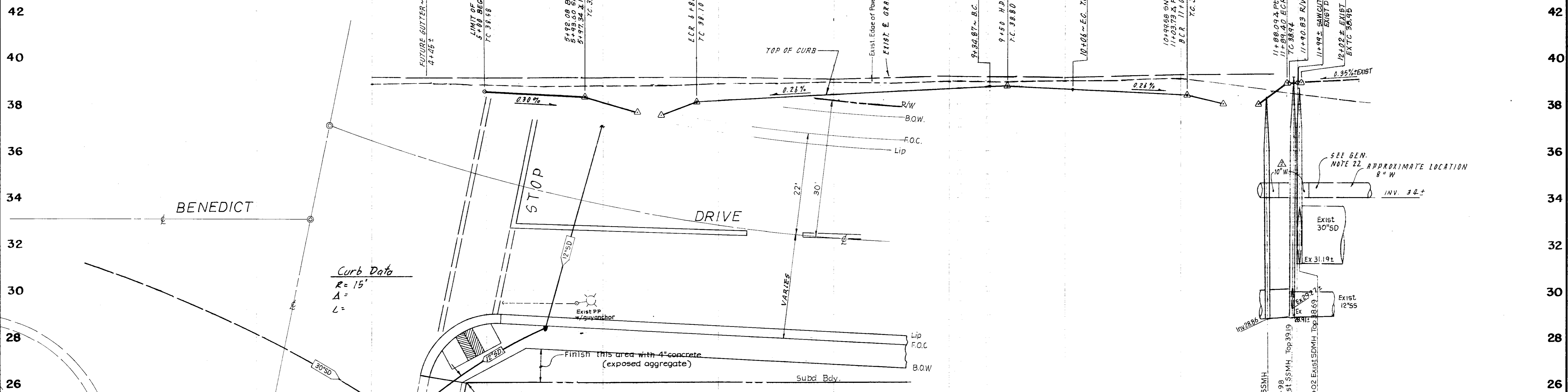
APPROVED BY: Henry M. Hirata RCE No. 21258
 19
 SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

BAUMBACH & PIAZZA
 CIVIL ENGINEERS
 SURVEYORS
 323 W. ELM ST. LODI, CALIF.
 95240 PH: 209-368-6618

BENEDICT DRIVE
 Woodbridge Road to 620' N/Ramblewood Way

"WINDWOOD" SUBDIVISION
 UNIT NO. 1
 SHEET 3 OF 15
 JOB NO. 8888
 FILE NO.

SUSAN



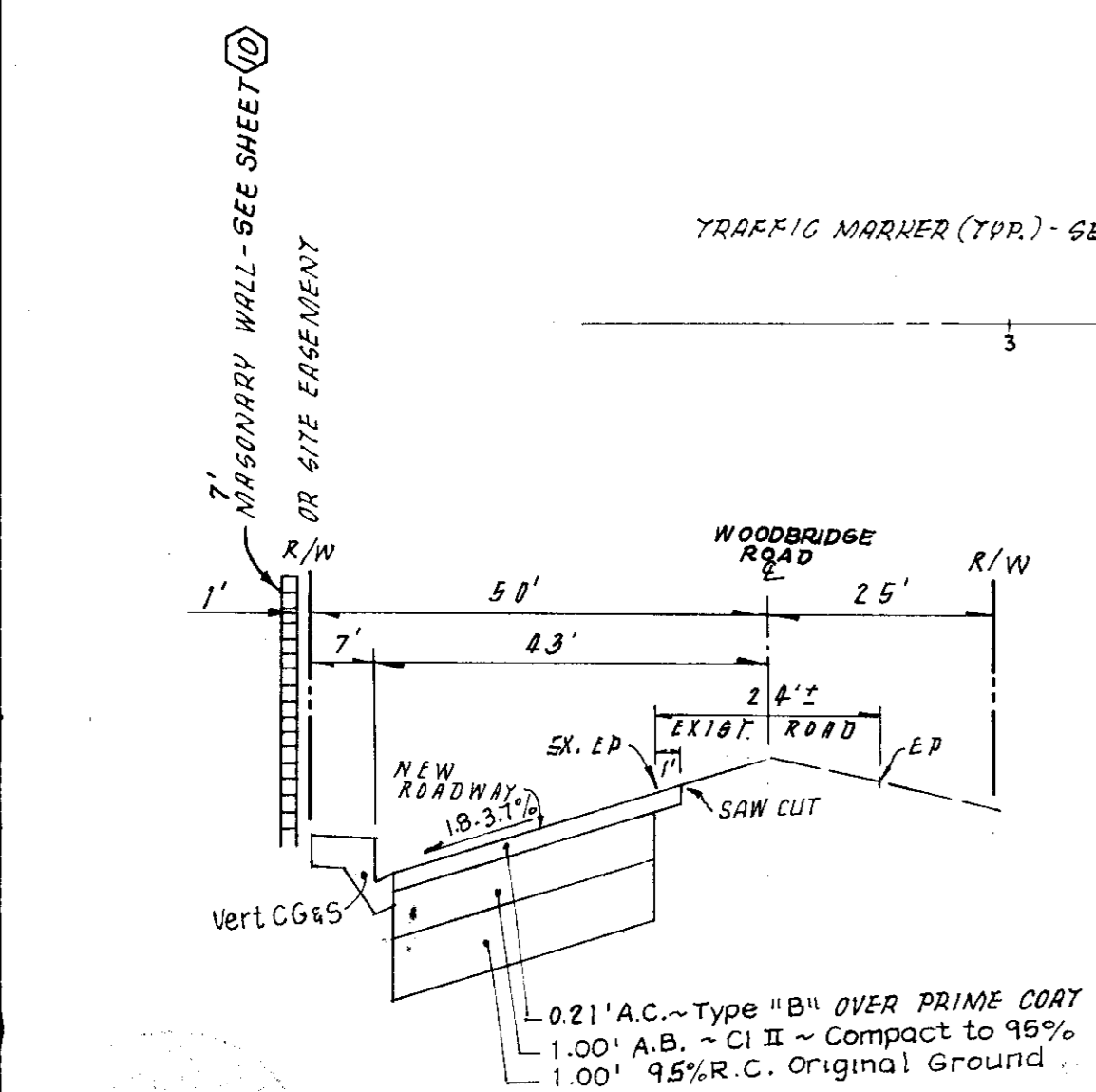
Sta	EXIST X-SIDE (ft)	NEW X-SIDE (ft)	LIP	E.P.
5+00	2.8			38.75
7+00	2.4	3.7	37.77	38.85
8+00	2.0	3	38.03	38.90
9+00	2.2	2.2	38.29	38.94
9+50	1.8	1.8	38.42	38.94
10+00	1.7	2.8	38.79	39.00
11+00	3.3	4.1	38.83	39.10
5+00	2.5	1.8	38.33	38.80

Curb Data
 $R = 15'$
 $\Delta =$
 $L =$

BENEDICT DRIVE ALIGNMENT
 SCALE: 1" = 10'

WOODBRIDGE ROAD

WINDWOOD DRIVE



SECTION A-A
 SCALE: 1" = 20' HOR., 1" = 2' VERT.

APPROVED BY: K. KJELSDEN
Kenneth H. Kjeldsen
 W.S.D. ENGINEER
 DATE: 7-24-91

DETAIL SSMH STA 11+98 ±

- NOTE:
- Existing Joint Pole, Mailbox & R.C. Box located in the Right of Way between Stations 10+00 - 12+00 are to be relocated.
 - Existing Trees, Hose Bib, Mailbox and Directional Sign located in the Right of Way between Stations 10+00 - 12+00 are to be removed.
 - Engineer to verify flowline at beginning & end of 15'88 and submit cut sheet to District Engineer one week prior to construction.
 - Replace this area with 3" A.C.

BASIS OF STATIONING:
 INTERSECTION OF Q. BENEDICT & WOODBRIDGE ROAD = 11+33.2 PER COUNTRY VIEW SUBD.

NO.	DATE	REVISIONS	BY	DESIGN T.P.	DRAWN BY E.S. R.G.R.
1	7/26/91	See Sheets 1, 5, & 10	TP		
2	8-12-91	Label 10" W	TP		
3	8-21-91	Move SSMH & Paving Note	TP		
4	9-30-91	Change Benedict Intersection	XP		

APPROVED BY: Henry M. Hirata RCE No. 21258
 DATE: 19____
 SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

BAUMBACH & PIAZZA
 CIVIL ENGINEERS
 SURVEYORS
 323 W. ELM ST. LODI, CALIF.
 95240 PH: 209-369-8818

WOODBRIDGE ROAD
 Lucas Rd. to Benedict Dr.

"WINDWOOD" SUBDIVISION
 UNIT NO. 1
 SHEET 2 OF 10
 JOB NO. 8888
 FILE NO.

Sua 2521

LOCATION OF "R" VALUE TESTS

R-1 R = 29
R-2 R = 21
R-3 R = 22

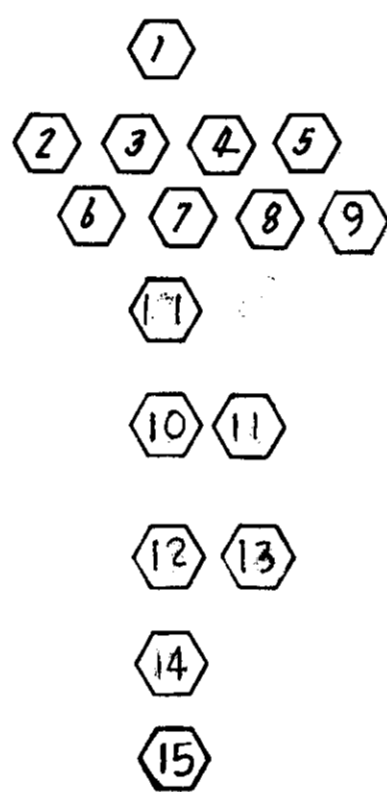
For use of the Department of Public Works only
CONSTRUCTION QUANTITIES

STREET SYSTEM	685 L.F.
6' Chain Link Fence	Lump Sum
Lot Grading	Lump Sum
Site Clearing	9,330 C.V.
Roadway Excavation	116,910 S.F.
0.80' Compact Original Ground	48,170 S.F.
Concrete Subgrade Compaction	17,810 S.F.
Aggregate Base, C1. II (0.00)	28,360 S.F.
Aggregate Base, C1. II (0.80)	70,005 S.F.
Asphalt Concrete, Type B (.20)	134,990 S.F.
Aggregate Base, C1. II (0.50)	46,905 S.F.
Asphalt Concrete, Type B (.25)	10,550 S.F.
Vertical Curb, Gutter & Sidewalk	608 L.F.
Bevelled Curb, Gutter & Sidewalk	6,044 L.F.
Commercial Type Driveway	22 L.F.
Survey Monument, Type S	18 Each
Dead End Barricade	4 Each
Street Light	19 Each
Roadway Import	3,750 C.V.
Masonry Wall	996 L.F.
STORM DRAIN SYSTEM	
24" storm drain	454 L.F.
12" Storm Drain	1,218 L.F.
15" Storm Drain	567 L.F.
48" Storm Drain Manhole	7 Each
Side Inlet Catch Basin	18 Each
SANITARY SEWER SYSTEM	
6" Sanitary Sewer	901 L.F.
8" Sanitary Sewer	1,072 L.F.
Sanitary Sewer Cleanout	3 Each
Sanitary Sewer Manhole	6 Each
Sanitary Service	46 Each
WATER SYSTEM	
8" Water	2,130 L.F.
10" Water	1,426 L.F.
8" Valve	11 Each
10" Valve	7 Each
*Fire Hydrant Assembly, See Sheet 12	7 Each
Blowoff	4 Each
1" Water Service	45 Each
1/2" Water Service	1 Only

CONSTRUCTION STAKING LIABILITY WAIVER

These improvement plans have been prepared with the intent that the firm of Baumbach & Piazza, Inc. will be performing the construction staking for the complete project. If, however, another engineering and/or surveying firm should be employed to use these plans for the purpose of construction staking, notice is hereby given that the firm of Baumbach & Piazza, Inc. will not assume any responsibility for errors or omissions, if any, which might occur and which could have been avoided, corrected or mitigated if Baumbach & Piazza, Inc. had performed the staking work.

SHEET INDEX



KEY SHEET, QUANTITIES, & NOTES PLAN & PROFILE

WALL DETAIL

WELL SITE DETAIL

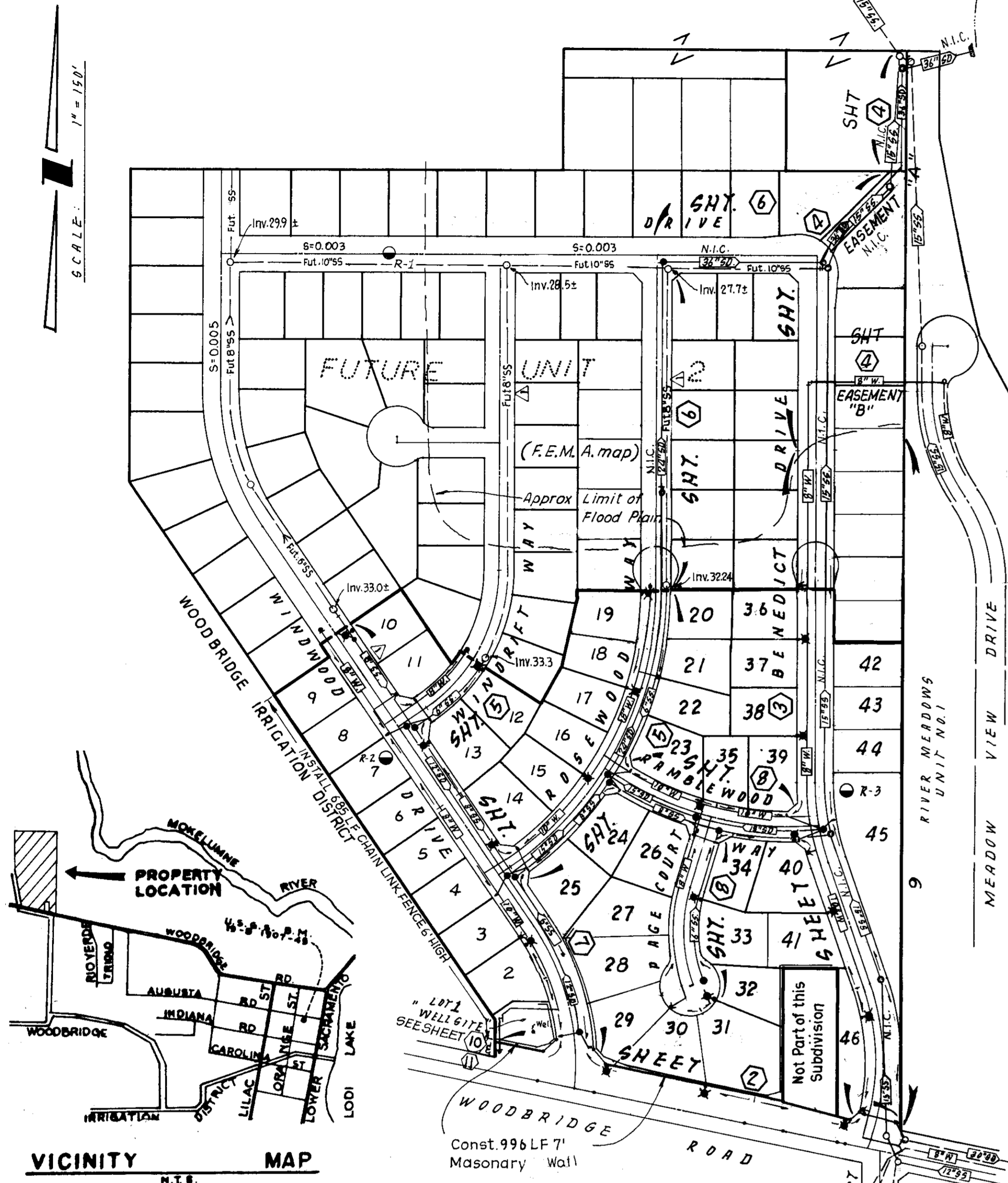
CONSTRUCTION DETAILS

GRADING PLAN

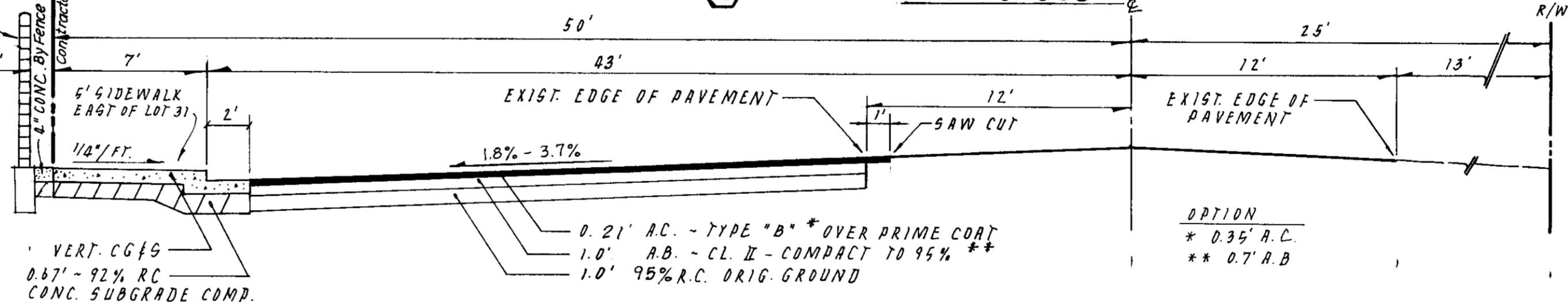
WID CROSSING

GENERAL NOTES

- All work shall conform to these plans and any special provisions for this project.
- Refer to the final map of this subdivision for all center line and property line data.
- The street light system shall be installed by Pacific Gas & Electric Company.
- Contractor shall receive an approved set of plans and specifications prior to beginning construction.
- Baumbach & Piazza (Engineer) shall set all survey controls and construction stakes necessary for completion of work. The Contractor shall be responsible for the preservation of all survey and construction stakes. Survey and construction stakes that are lost or destroyed due to Contractor's negligence will be set by the Engineer at the Contractor's expense.
- The existing underground utilities were plotted from available records. The Contractor shall be responsible for contacting all utility agencies to mark their facilities in the field before any excavation. The Contractor shall notify and coordinate all work with any agency requiring removal or relocation of their utilities. Pacific Bell, P. G. & E., Lodi Cable T. V., Woodbridge Sanitary District and Mokeelumne Acres Maintenance District. U.S.A. (800) 642-2444.
- House services, fire hydrant laterals, and street light conduit shall be installed prior to curb and gutter construction. All underground utilities within the street area, including gas and telephone lines, shall be installed prior to paving.
- All manholes to be set flush with the finish grade unless otherwise indicated.
- All water lines shall have a minimum cover of 30".
- Water used in any phase of construction, such as backfill compaction, dust control, testing or other work herein required, shall be included in the unit price or lump sum bid for the respective item of construction.
- Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety for all persons and property; that this requirement shall apply continuously and not be limited to normal working hours and that Contractor shall defend, indemnify, and hold the Owner, County and the Engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the Owner or the Engineer.
- Contractor shall give Engineer a minimum of 48 hours notification prior to staking any utilities.
- Sanitary sewer services shall be marked by the curb & gutter contractor with an "S" staked on the top of curb.
- Water services shall be marked by the curb and gutter Contractor with a "W" staked on the top of curb. Location of water markings shall be verified in the field by the Engineer.
- Lot grading shall be completed before starting any underground construction. Refer to attached grading plan.
- Separation of water and sewer mains (including crossings) and sewer laterals crossing over water mains shall meet or exceed the latest standards of the State of California Department of Health Services.
- Contractor shall be responsible for notifying and co-ordinate all work with any agency requiring removal or relocation of utilities, such as Pacific Bell, P. G. & E., etc.
- All off-site water lines shall be pressure tested, disinfected, flushed and tested for bacteria in conformance with the San Joaquin County Health Code Requirements prior to connecting to existing water line.
- All off-site storm drains shall be cleaned prior to final acceptance.
- Contractor shall visit site prior to bidding. Specifications are a separate document.
- New traffic striping and the restoration of any damaged existing painted legends or signs is the responsibility of the Contractor and shall be included in his bid price.
- Where water crosses SD or SS use an 18-20 ft. length of C1. 200 pipe, centered over the SS or SD if: a) The water is under the SS or SD. b) The vertical clearance is less than 1 foot.
- No materials resulting from tapping procedures may enter District sewer.
- All work will be required to be inspected by the Department of Public Works. They shall be notified not less than 24 hours in advance of commencement of work.
- Each SS service to have C.O. at property.
- It is agreed that field conditions may require changes to these plans. It is further agreed that the Director of Public Works may require changes, alterations or additions to these plans, when the Director deems them to be necessary or desirable for the proper completion of the work, provided that such changes, alterations or additions shall not exceed 10% of the original estimate of the cost for the improvements without prior approval of the surety.
- Fire hydrant bid shall include the following: Tee, 6" Lateral, 6" Valve and complete fire hydrant assembly.
- Prior to performing any work in Woodbridge Road, the Contractor shall obtain an Encroachment Permit from the San Joaquin County Department of Public Works.
- Contractor shall notify Mokeelumne Acres Maintenance District for approval prior to connecting water line to existing water main.
- Installation of all sanitary sewer improvements shall conform to the standards of the Woodbridge Sanitary District. All such work is subject to inspection by the District Engineer. The Contractor shall notify District Engineer 48 hours prior to the commencement of any work on the sanitary system. (209-946-0268)
- Contractor shall obtain a grading permit from the San Joaquin County Building Division.
- Pipe type and strengths allowed for underground utilities, unless otherwise specified on plans, are as follows: Storm Drain (SD) - RCP or ADP, C1. III; Sanitary Sewer (SS) - PVC, per ASTM D3034, SDR35; Water (W) - PVC, C1. 150 or greater per AWWA Std. C-900, C1. 150 or greater per ASTM C296, Type II.
- All traffic signs and markings shall conform to San Joaquin County Standards and to the "Manual of Uniform Traffic Control Devices".
- Any changes to the approved Improvement Plans and Specifications must be prepared and certified by the "Civil Engineer" and shall be approved by the "Director" prior to implementation.
- All materials used as sanitary sewer system must have written approval from District Engineer prior to installation.



7' HIGH MASONRY WALL
DETAILS & DESIGN TO BE APPROVED
BY DEPT. OF PUBLIC WORKS AND
PLANNING BEFORE CONST.



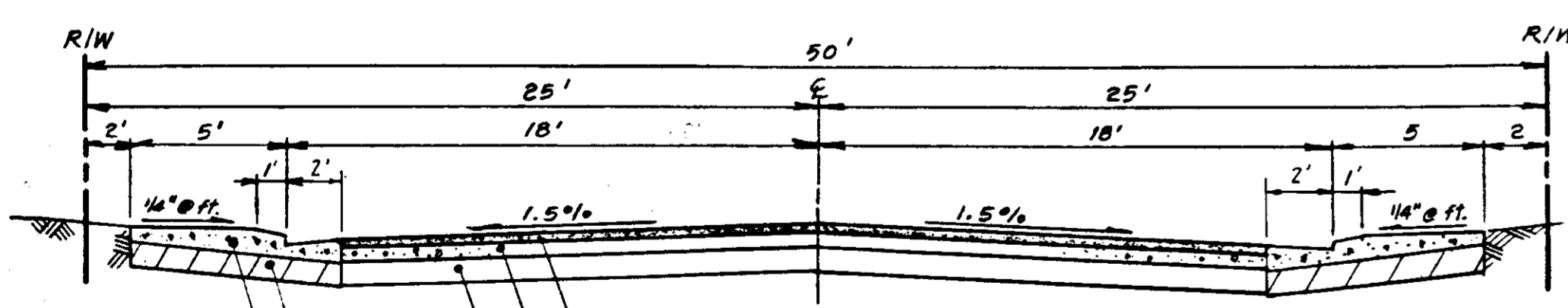
"R" Value = 21 T.I. = 6 G.E. Required = 15 G.E. Provided = 156

WOODBRIDGE ROAD

Bench Mark Datum per U.S.G.S. B.M.
19-B 1907-45. Location NW corner
of Masonic Building in the town of Woodbridge.
Elevation 45.85 is most current per F.E.M.A.

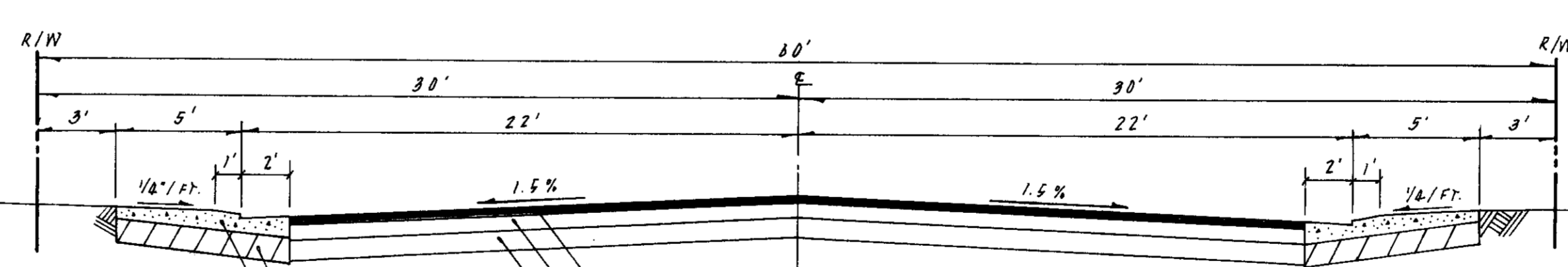
STRUCTURAL SECTIONS

Scale: 1" = 5'



"R" Value = 21 T.I. = 0 G.E. Required = 1.0 G.E. Provided = 1.05

**WINDRIFT WAY - ROSEWOOD WAY
RAMBLEWOOD WAY - PAGE COURT**



"R" Value = 21 T.I. = 5 G.E. Required = 1.26 G.E. Provided = 1.38

WINDWOOD DRIVE - BENEICT DRIVE

NOTE: Structural section where import is needed is based upon an assumed "R" value of 21. Imported fill shall be tested for "R" value of 21 min.

LEGEND

Street Sign	Woodbridge Lighting District
Side Inlet Catch Basin	Woodbridge Sanitary District
Low Point	P. G. & E.
High Point	Pacific Bell
Top of Curb	Lodi Cable T.V.
Clean Out to Grade	
Storm Drain Line Indicating direction of flow	
Sanitary Sewer Line Indicating direction of flow	
Water Line	
Fire Hydrant	150W - Woodbridge Rd., Windwood Dr., Benedict Dr., 4 Intersections
Street Light	100W - All others
Begin Curve	
End Curve	
Begin Curve Return	
End Curve Return	
Grade Break	
STOP SIGN	

APPROVED BY

James R. Miller, REVS SAN JOAQUIN PUBLIC HEALTH DISTRICT	7-3-91
DATE	
7-3-91	
DATE	
7-2-91	
DATE	
7-24-91	
DATE	

NO.	DATE	REVISIONS	BY	DESIGN	DRAWN BY
1	7/26/91	SS Revision - Rosewood	TP	TD	GRLES
2	8-12-91	2 F. 8"W, 10"W, 10" Valve	TP		

APPROVED BY: Henry M. Hirata RCE No. 21258
Oct 11, 1991
SAN JOAQUIN COUNTY DIRECTOR OF PUBLIC WORKS

BAUMBACH & PIAZZA
CIVIL ENGINEERS
SURVEYORS
323 W. ELM ST. LODI, CALIF.
93240 PH: 209-368-8818

KEY SHEET

"WINDWOOD"
UNIT NO. 1
SUBDIVISION IMPROVEMENTS

SHEET 7 OF 15
JOB NO. 8888
FILE NO.