

PORTAL MANOR – P.U.D.

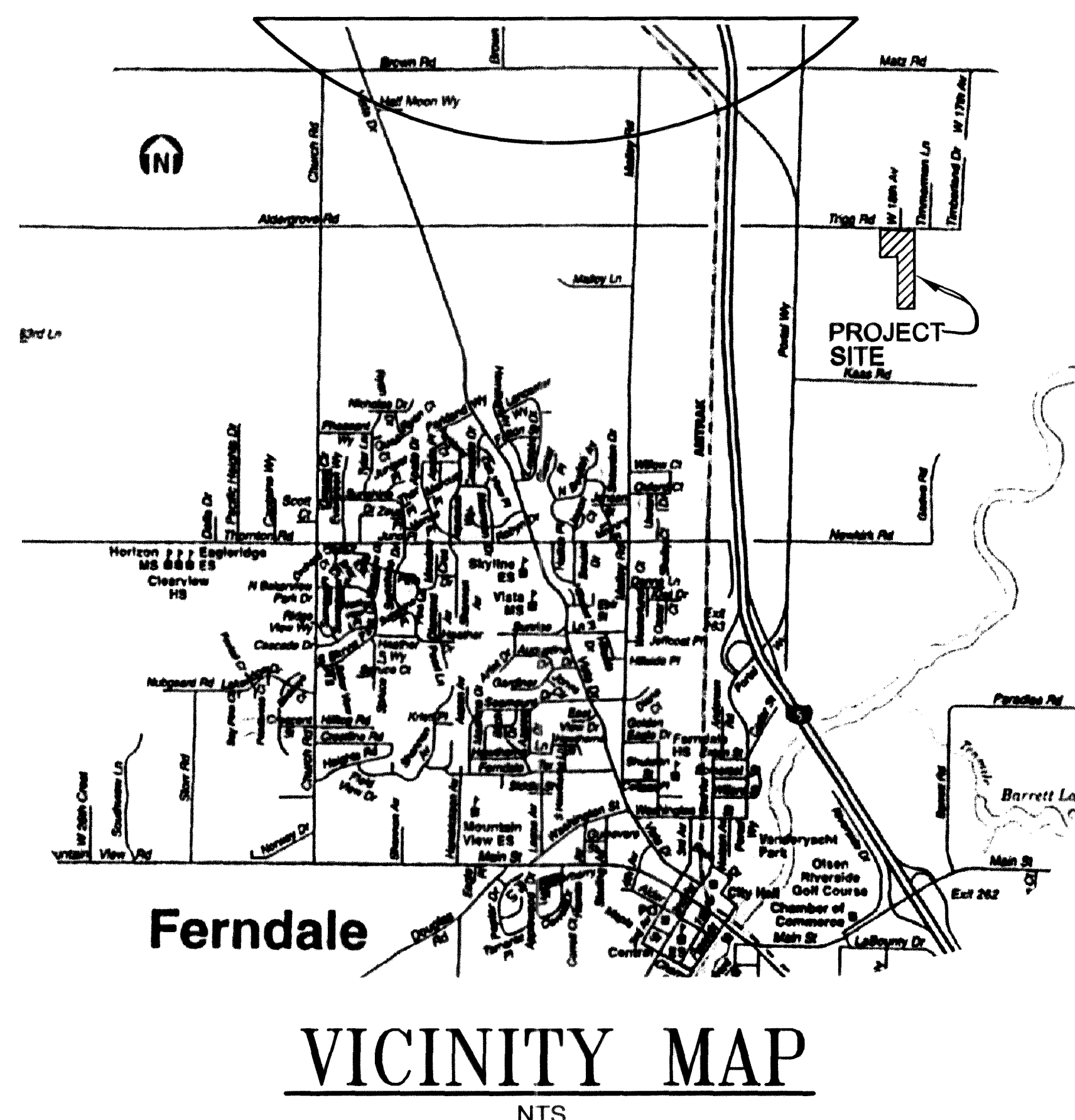
SUBDIVISION IMPROVEMENTS

SECTION 17, TOWNSHIP 39 NORTH, RANGE 2 EAST, WM
CITY OF FERNDAL, WHATCOM COUNTY, WASHINGTON

DEVELOPER: WHATCOM SELF HELP HOMES

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LEGEND

●	PROPERTY CORNER	—	NEW PROPERTY LINE
⬤	BRASS DISK MONUMENT	- - - -	PROPOSED FUTURE PROPERTY LINE
●	SANITARY SEWER MANHOLE	- - - -	EASEMENT LINE
■	STORM SEWER CATCH BASIN	- - - -	RIGHT OF WAY CENTERLINE
■	STORM SEWER JUNCTION BOX	- - - -	STORM SEWER LINE
○	TREE	- - - -	SANITARY SEWER LINE
✱	STREET LIGHT	- - - -	WATER LINE
✱	FIRE HYDRANT		
✱	THRUST BLOCK		
■	WATER METER		

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT WSDOT/APWA STANDARD SPECIFICATIONS, CITY OF FERNDAL DEVELOPMENT STANDARDS, AND SHALL BE SUBJECT TO APPROVAL BY CITY OF FERNDAL PUBLIC WORKS DEPARTMENT.
- DEVELOPER/CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF FERNDAL DIVISION OF ENGINEERS A MINIMUM OF 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION. WORK IN THE RIGHT-OF-WAY.
- A REVOCABLE ENCROACHMENT PERMIT SHALL BE OBTAINED PRIOR TO COMMENCING
- CONTRACTOR SHALL CONTACT UTILITY LOCATION SERVICE 48 HOURS PRIOR TO STARTING CONSTRUCTION AT 1-800-424-5555.
- OWNER MUST PROVIDE THE FOLLOWING TESTS:
 - CURB/GUTTER, SIDEWALK, ROADWAY BASE COMPACTION - MINIMUM 1 TEST EVERY 3 STATIONS, MINIMUM 2 TESTS PER CATEGORY, OR AT THE DIRECTION OF CITY INSPECTOR.
 - CONCRETE CYLINDER COMPRESSION - 1 CYLINDER EVERY THIRD LOAD, MINIMUM 2 SAMPLES.
- A.C. PAVING DENSITY.
- ALL WORK MUST BE INSPECTED BY A REPRESENTATIVE OF THE CITY OF FERNDAL. CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE FOR CITY INSPECTION AS FOLLOWS:
 - PLACEMENT OF TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES.
 - PLACEMENT OF WATER LINE AND BACKFILLING OF WATER LINE WITHIN ROAD RIGHT-OF-WAY.
 - PLACEMENT AND BACKFILLING OF UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER WITHIN ROAD RIGHT-OF-WAY.
 - ROADWAY GRADING AT:
 - COMPLETION OF SUBGRADE.
 - COMPLETION OF BALLAST.
 - COMPLETION OF CRUSHED SURFACING.
 - POURING OF CURB/GUTTER AND SIDEWALK.
 - ASPHALT PAVING IN PROGRESS.
 - OVERALL INSPECTION FOR FINISHED SHOULDERS, DITCHES, PERMANENT SEEDING AND MONUMENT PLACEMENT.
 - END OF MAINTENANCE PERIOD.
- ALL TESTING REQUIRED FOR THE IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE OWNER AND SHALL BE IN CONFORMANCE WITH CITY OF FERNDAL DEVELOPMENT STANDARDS.
- STORM PIPE SHALL BE OF AN APPROVED MATERIAL AND OF THE SIZE NOTED ON THE PLANS.
- CONTRACTOR SHALL RIP RAP ALL CULVERT INLETS AND OUTLETS.
- CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT IMMEDIATELY AFTER CONSTRUCTION.
- ALL CUT AND FILL SLOPES SHALL BE SEEDED AND FERTILIZED FOR EROSION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR SLOPE EROSION UNTIL VEGETATION IS FIRMLY ESTABLISHED.
- CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM CITY OF FERNDAL DIVISION OF ENGINEERS OF ANY PROPOSED CHANGES IN PLAN PRIOR TO CONSTRUCTION OF THAT CHANGE. CONTRACTOR SHALL KEEP RECORD OF DEVIATIONS AND FORWARD TO THE ENGINEER AND CITY OF FERNDAL DIVISION OF ENGINEERS.
- TRAFFIC CONTROL TO BE MAINTAINED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 1-07.23.
- DEVELOPER/CONTRACTOR SHALL POST A MAINTENANCE SECURITY AS REQUIRED BY THE CITY OF FERNDAL ENGINEER.
- ENGINEER WILL PROVIDE CERTIFIED AS-BUILT MYLARS TO CITY OF FERNDAL DIVISION OF ENGINEERS UPON PROVISIONAL ACCEPTANCE OF NEW ROAD IMPROVEMENTS SECTION 403(A)(4)(C) OFS.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN PORTAL MANOR – A PLANNED UNIT DEVELOPMENT HAVE BEEN INSPECTED BY RONALD T. JEPSON + ASSOCIATES AND CONSTRUCTED IN CONFORMANCE WITH THE PLANS APPROVED BY THE PUBLIC WORKS DIRECTOR FOR SAID DEVELOPMENT AND THE GENERAL SPECIFICATIONS ADOPTED BY THE CITY OF FERNDAL DEPARTMENT OF PUBLIC WORKS.

APPROVED: *Ronald T. Jepson*
RONALD T. JEPSON, P.E., PLS

AS BUILT

TITLE SHEET

CLIENT:
WHATCOM SELF HELP HOMES

00130

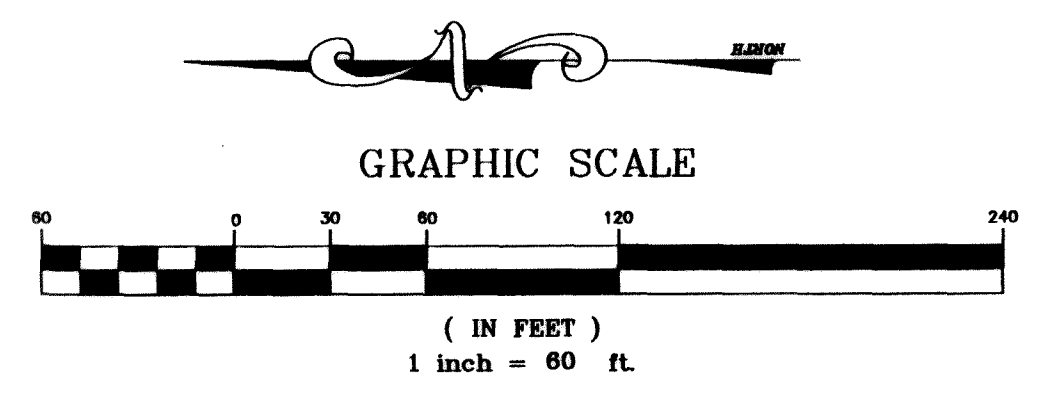
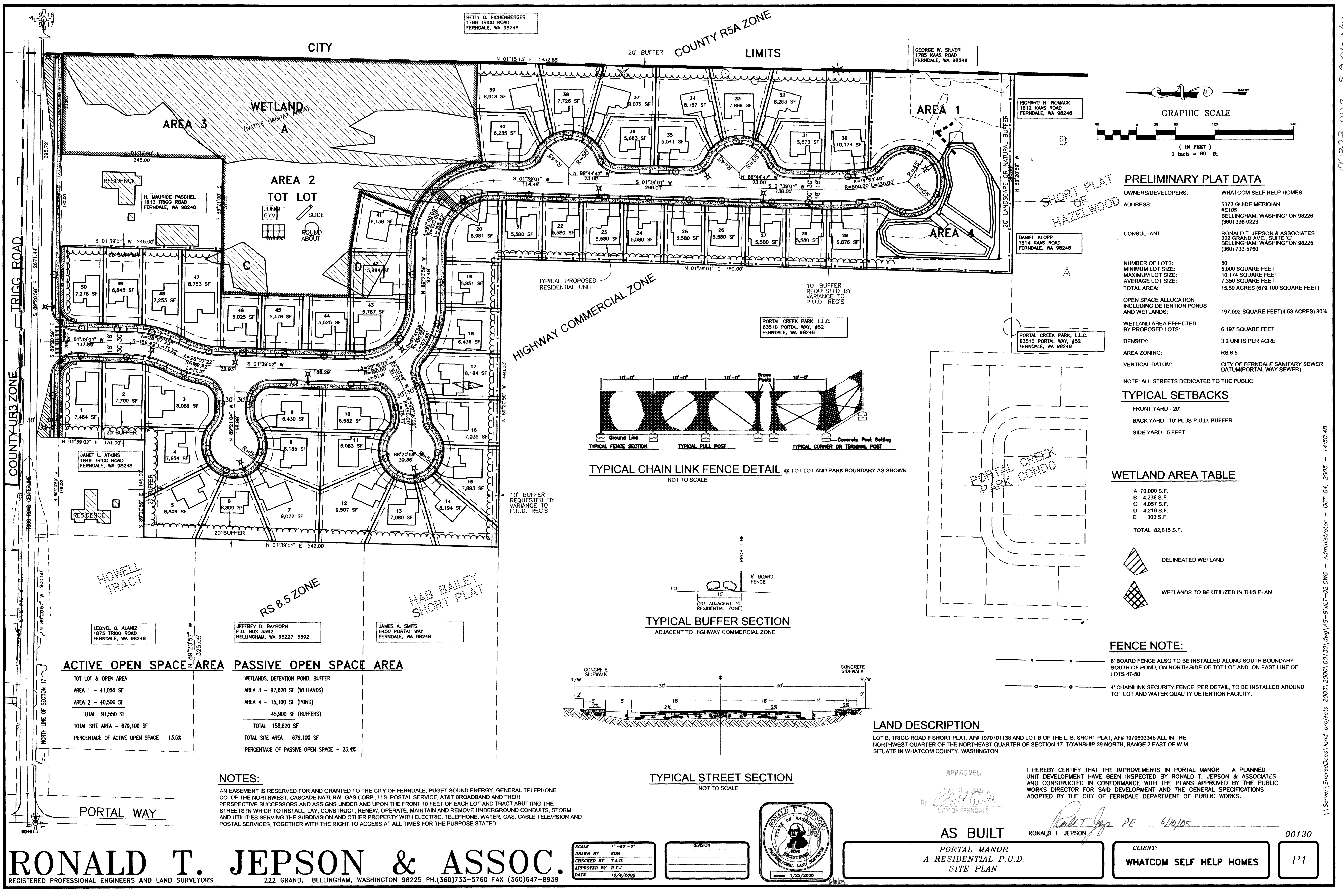
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RONALD T. JEPSON & ASSOC.
REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS
222 GRAND, BELLINGHAM, WASHINGTON 98225 PH.(360)733-5760 FAX (360)647-8939

SCALE	NA
DRAWN BY	KDR
CHECKED BY	T.A.U.
APPROVED BY	R.T.J.
DATE	08-22-2005

REVISION





PRELIMINARY PLAT DATA

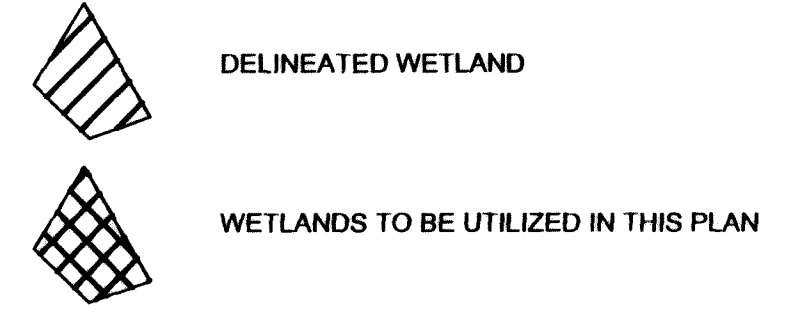
OWNERS/DEVELOPERS: WHATCOM SELF HELP HOMES
ADDRESS: 5373 GUIDE MERIDIAN #E105 BELLINGHAM, WASHINGTON 98226 (360) 398-0223
CONSULTANT: RONALD T. JEPSON & ASSOCIATES 222 GRAND AVE., SUITE C BELLINGHAM, WASHINGTON 98225 (360) 733-5760
NUMBER OF LOTS: 50
MINIMUM LOT SIZE: 5,000 SQUARE FEET
MAXIMUM LOT SIZE: 10,174 SQUARE FEET
AVERAGE LOT SIZE: 7,350 SQUARE FEET
TOTAL AREA: 15.59 ACRES (679,100 SQUARE FEET)
OPEN SPACE ALLOCATION INCLUDING DETENTION PONDS AND WETLANDS: 197,092 SQUARE FEET (4.53 ACRES) 30%
WETLAND AREA EFFECTED BY PROPOSED LOTS: 6,197 SQUARE FEET
DENSITY: 3.2 UNITS PER ACRE
AREA ZONING: RS 8.5
VERTICAL DATUM: CITY OF FERDALE SANITARY SEWER DATUM (PORTAL WAY SEWER)
NOTE: ALL STREETS DEDICATED TO THE PUBLIC

TYPICAL SETBACKS

FRONT YARD - 20'
BACK YARD - 10' PLUS P.U.D. BUFFER
SIDE YARD - 5 FEET

WETLAND AREA TABLE

A 70,000 S.F.
B 4,236 S.F.
C 4,057 S.F.
D 4,219 S.F.
E 303 S.F.
TOTAL 82,815 S.F.



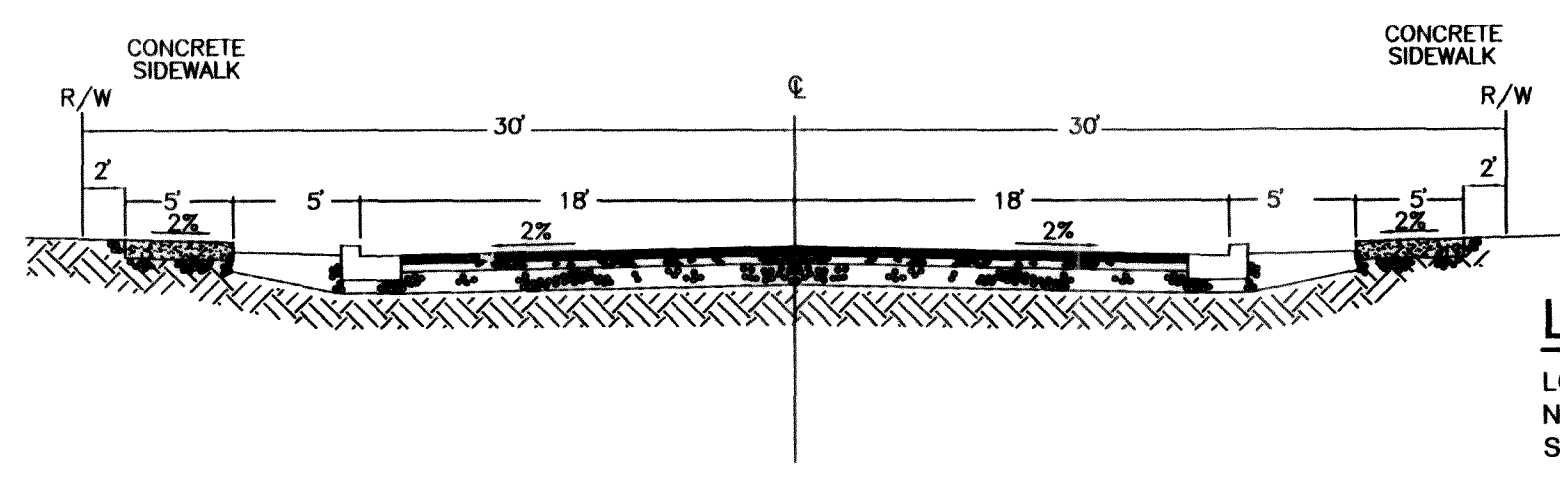
FENCE NOTE:

6' BOARD FENCE ALSO TO BE INSTALLED ALONG SOUTH BOUNDARY SOUTH OF POND, ON NORTH SIDE OF TOT LOT AND ON EAST LINE OF LOTS 47-50.
4' CHAINLINK SECURITY FENCE, PER DETAIL, TO BE INSTALLED AROUND TOT LOT AND WATER QUALITY DETENTION FACILITY.

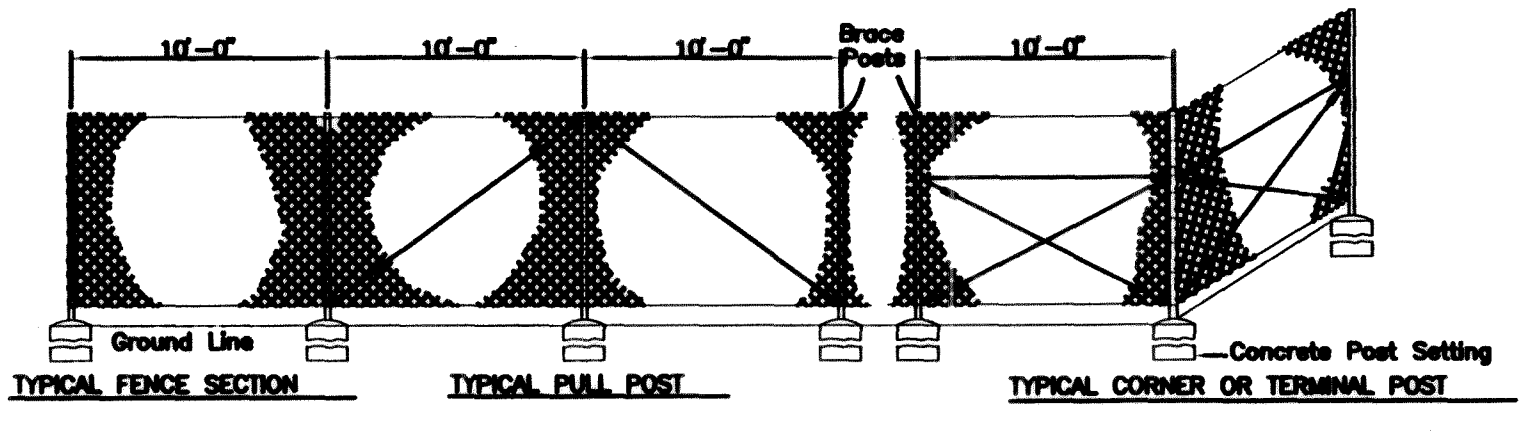
LAND DESCRIPTION

LOT B, TRIGG ROAD II SHORT PLAT, AF# 1970701138 AND LOT B OF THE L. B. SHORT PLAT, AF# 1970603345 ALL IN THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 17 TOWNSHIP 39 NORTH, RANGE 2 EAST OF W.M., SITUATE IN WHATCOM COUNTY, WASHINGTON.

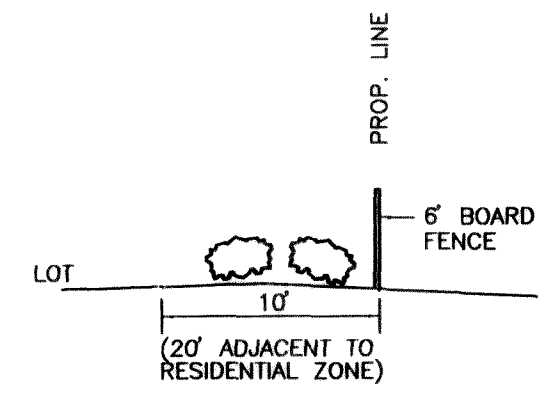
TYPICAL STREET SECTION



TYPICAL CHAIN LINK FENCE DETAIL



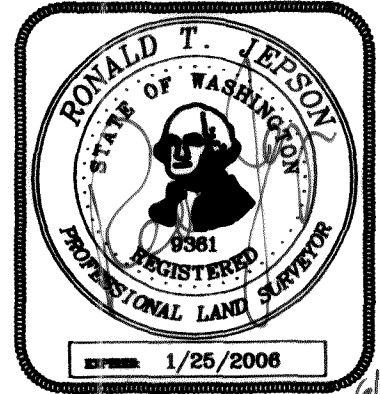
TYPICAL BUFFER SECTION



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Table with 2 columns: SCALE, DATE. SCALE: 1"=80'-0". DATE: 10/4/2005.

Table with 2 columns: REVISION, DATE. Multiple revision entries.



APPROVED
BY: [Signature]
CITY OF FERDALE

AS BUILT
PORTAL MANOR
A RESIDENTIAL P.U.D.
SITE PLAN

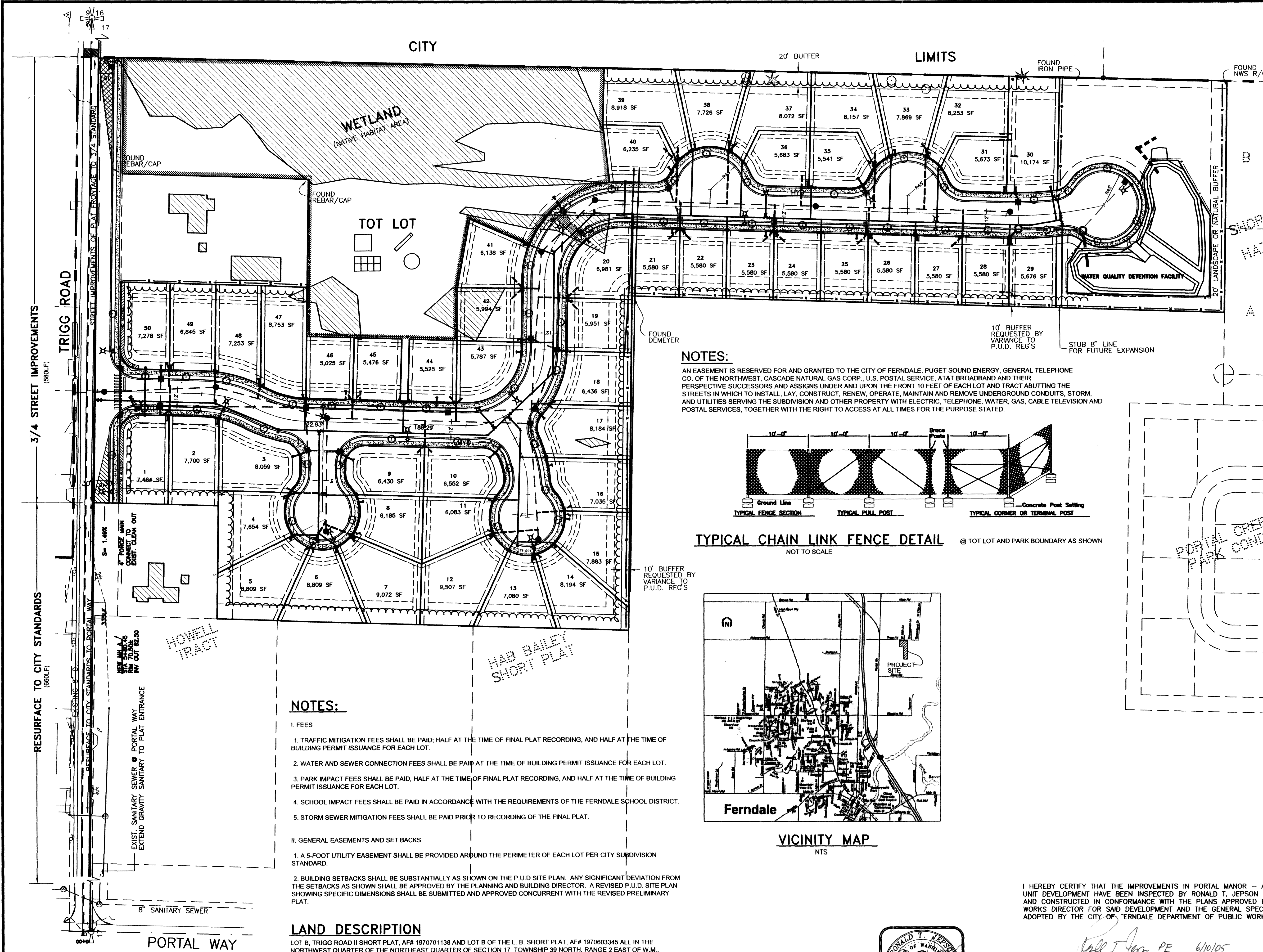
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RONALD T. JEPSON
6/10/05

CLIENT:
WHATCOM SELF HELP HOMES

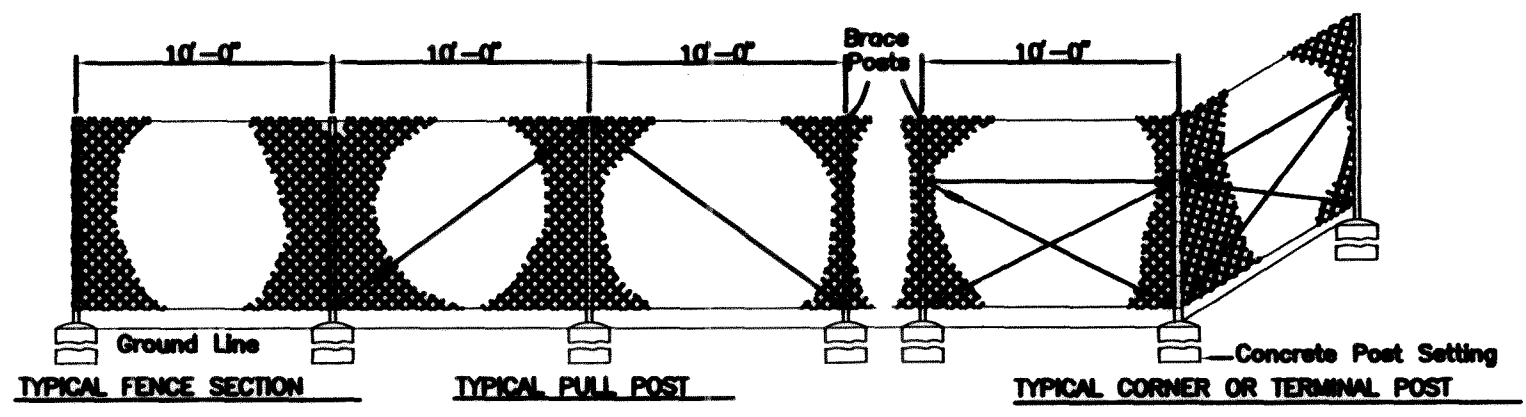
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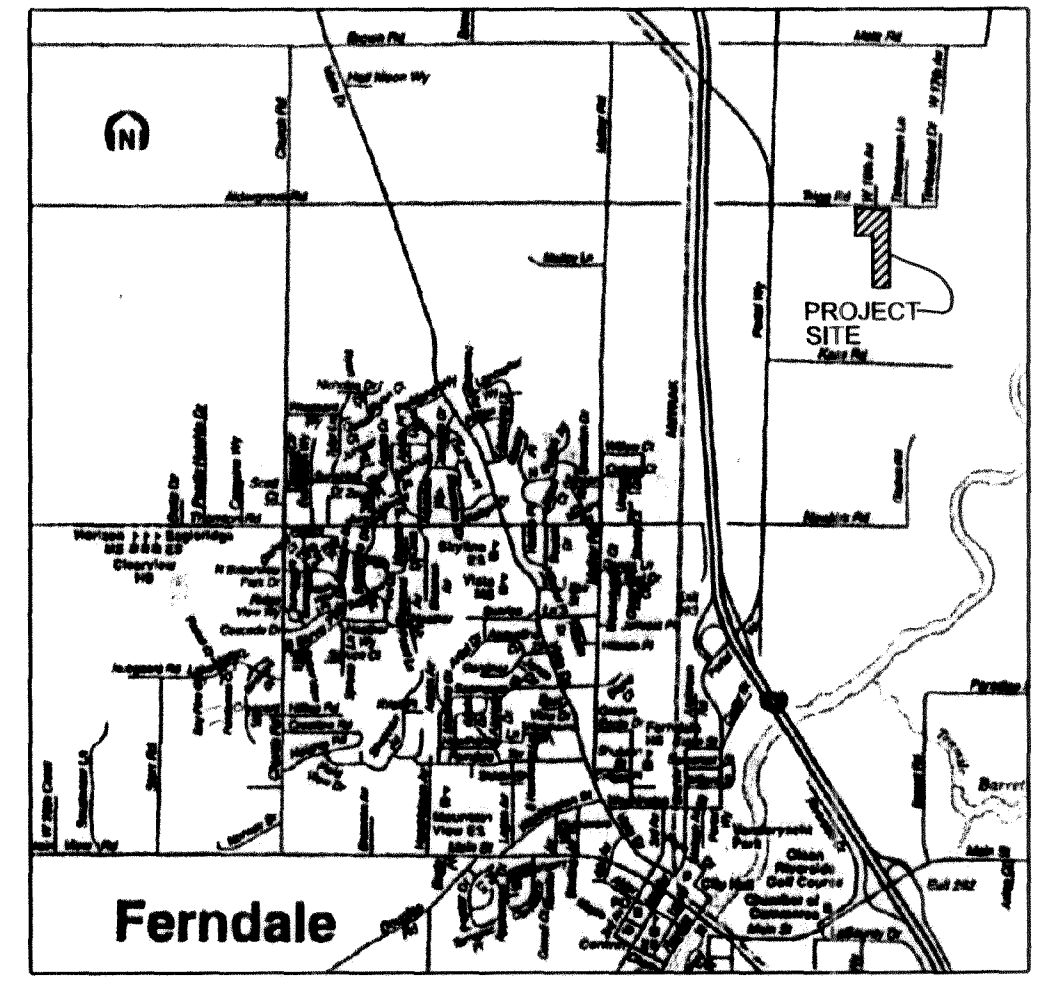


NOTES:

AN EASEMENT IS RESERVED FOR AND GRANTED TO THE CITY OF FERDALE, PUGET SOUND ENERGY, GENERAL TELEPHONE CO. OF THE NORTHWEST, CASCADE NATURAL GAS CORP. U.S. POSTAL SERVICE, AT&T BROADBAND AND THEIR RESPECTIVE SUCCESSORS AND ASSIGNS UNDER AND UPON THE FRONT 10 FEET OF EACH LOT AND TRACT ABUTTING THE STREETS IN WHICH TO INSTALL, LAY, CONSTRUCT, RENEW, OPERATE, MAINTAIN AND REMOVE UNDERGROUND CONDUITS, STORM, AND UTILITIES SERVING THE SUBDIVISION AND OTHER PROPERTY WITH ELECTRIC, TELEPHONE, WATER, GAS, CABLE TELEVISION AND POSTAL SERVICES, TOGETHER WITH THE RIGHT TO ACCESS AT ALL TIMES FOR THE PURPOSE STATED.



TYPICAL CHAIN LINK FENCE DETAIL



VICINITY MAP

NOTES:

- I. FEES
 - 1. TRAFFIC MITIGATION FEES SHALL BE PAID; HALF AT THE TIME OF FINAL PLAT RECORDING, AND HALF AT THE TIME OF BUILDING PERMIT ISSUANCE FOR EACH LOT.
 - 2. WATER AND SEWER CONNECTION FEES SHALL BE PAID AT THE TIME OF BUILDING PERMIT ISSUANCE FOR EACH LOT.
 - 3. PARK IMPACT FEES SHALL BE PAID, HALF AT THE TIME OF FINAL PLAT RECORDING, AND HALF AT THE TIME OF BUILDING PERMIT ISSUANCE FOR EACH LOT.
 - 4. SCHOOL IMPACT FEES SHALL BE PAID IN ACCORDANCE WITH THE REQUIREMENTS OF THE FERDALE SCHOOL DISTRICT.
 - 5. STORM SEWER MITIGATION FEES SHALL BE PAID PRIOR TO RECORDING OF THE FINAL PLAT.
- II. GENERAL EASEMENTS AND SET BACKS
 - 1. A 5-FOOT UTILITY EASEMENT SHALL BE PROVIDED AROUND THE PERIMETER OF EACH LOT PER CITY SUBDIVISION STANDARD.
 - 2. BUILDING SETBACKS SHALL BE SUBSTANTIALLY AS SHOWN ON THE P.U.D. SITE PLAN. ANY SIGNIFICANT DEVIATION FROM THE SETBACKS AS SHOWN SHALL BE APPROVED BY THE PLANNING AND BUILDING DIRECTOR. A REVISED P.U.D. SITE PLAN SHOWING SPECIFIC DIMENSIONS SHALL BE SUBMITTED AND APPROVED CONCURRENT WITH THE REVISED PRELIMINARY PLAT.

LAND DESCRIPTION

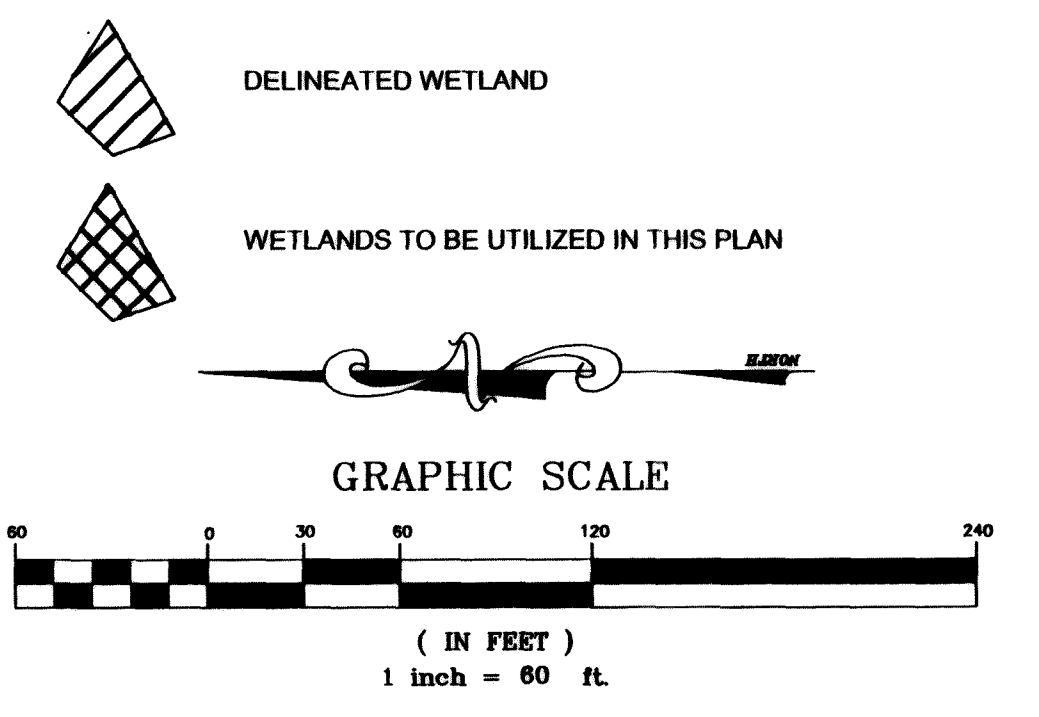
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OWNERS/DEVELOPERS:	WHATCOM SELF HELP HOMES
ADDRESS:	5373 GUIDE MERIDIAN #E105 BELLINGHAM, WASHINGTON 98226 (360) 398-0223
CONSULTANT:	RONALD T. JEPSON & ASSOCIATES 222 GRAND AVE., SUITE C BELLINGHAM, WASHINGTON 98225 (360) 733-5760
NUMBER OF LOTS:	50
MINIMUM LOT SIZE:	5,000 SQUARE FEET
MAXIMUM LOT SIZE:	10,174 SQUARE FEET
AVERAGE LOT SIZE:	7,350 SQUARE FEET
DENSITY:	3.2 UNITS PER ACRE
TOTAL AREA:	15.59 ACRES (679,100 SQUARE FEET)
OPEN SPACE ALLOCATION INCLUDING DETENTION PONDS WETLANDS & BUFFERS	158,820 SQUARE FEET (3.84 ACRES) 23.4%
WETLAND AREA EFFECTED BY PROPOSED LOTS:	6,197 SQUARE FEET
AREA TO BE DEDICATED TO COMMON USE:	
WATER QUALITY & DETENTION AREA:	15,100 SQUARE FEET
ACTIVE OPEN SPACE	
TOT LOT:	40,500 SQUARE FEET
SOUTH PARK	41,050 SQUARE FEET
TOTAL	91,150 SQUARE FEET (13.5%)
AREA ZONING:	RS 8.5
AVERAGE HOUSE SIZE:	1525 SQUARE FEET
ROAD RIGHT-OF-WAY AREA:	128,172 SQUARE FEET
NGVD DATUM	SEE CONTOURS

WETLAND AREA TABLE

A	70,000 S.F.
B	4,236 S.F.
C	4,057 S.F.
D	4,219 S.F.
E	303 S.F.
TOTAL	82,815 S.F.



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RONALD T. JEPSON
APPROVED
6/10/05

APPROVED
BY [Signature]
CITY OF FERDALE

AS BUILT

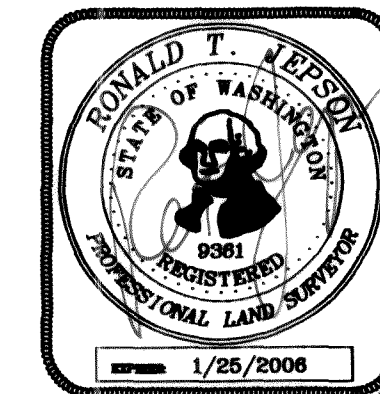
CLIENT: WHATCOM SELF HELP HOMES

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P2

SCALE 1"=60'-0"
DRAWN BY KDR
CHECKED BY T.A.U.
APPROVED BY R.T.J.
DATE 10/4/2005

REVISION



PORTAL MANOR
PRELIMINARY PLAT

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FERNDAL CITY LIMITS

NOTES:

1. ALL STREET SIGNS SHALL BE SUPPLIED AND INSTALLED BY THE CITY OF FERNDAL AT THE DEVELOPER'S EXPENSE.
2. SEE SHEET C2 FOR EROSION CONTROL PLAN SEEDING.
3. SEE SHEET RD3 FOR TREE PLANTING LANDSCAPE DETAIL AND SEEDING PLAN.

PARK

PARK

WATER QUALITY DETENTION FACILITY

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RONALD T. JEPSON

AS BUILT

PORTAL MANOR
ROAD STATIONING & TRAFFIC CONTROL

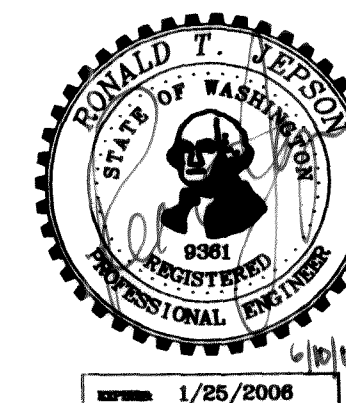
CLIENT:
WHATCOM SELF HELP HOMES

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P3

RONALD T. JEPSON & ASSOC.
REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS
222 GRAND, BELLINGHAM, WASHINGTON 98225 PH.(360)733-5760 FAX (360)647-8939

SCALE
1" = 40' - 0"
DRAWN BY: KDR
CHECKED BY: T.L.U.
APPROVED BY: R.T.J.
DATE: 10/4/2005



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FERNDAL CITY LIMITS

NOTES:

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PARK

PARK

WATER QUALITY DETENTION FACILITY

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

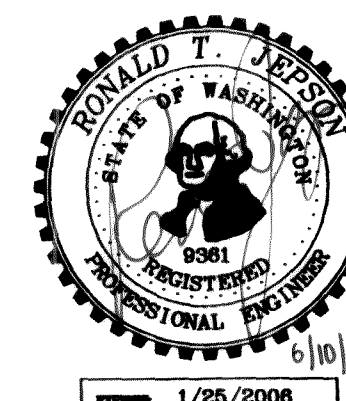
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REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS

222 GRAND, BELLINGHAM, WASHINGTON 98225 PH.(360)733-5760 FAX (360)647-8939

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RONALD T. JEPSON

PE 6/10/05

APPROVED

BY *Robert J. J. J.*
CITY OF FERNDAL

AS BUILT

CLIENT:
WHATCOM SELF HELP HOMES

00130

C1

PORTAL MANOR
COMPOSITE UTILITY PLAN

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TESC GENERAL NOTES:

1. ALL STORMWATER AND EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE STORMWATER MANAGEMENT MANUAL FOR THE PUGET SOUND BASIN PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF ECOLOGY (WSDE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON).
2. THE CONTRACTOR SHALL USE THIS EROSION CONTROL PLAN AS A MINIMUM TO BE IMPLEMENTED PRIOR TO BEGINNING ANY CONSTRUCTION.
3. ALL SILT FENCE AND/OR SILT BARRIERS SHALL BE IN PLACE BEFORE ANY CLEARING AND/OR GRADING OPERATIONS BEGIN.
4. THE CONTRACTOR SHALL MINIMIZE THE DISTURBED AREA BY SCHEDULING OPERATIONS TO CLEAR, GRADE AND STABILIZE IN SEQUENCE. ALL EXPOSED AREAS SHALL BE STABILIZED BY SEEDING AND/OR MULCHING WITHIN SEVEN DAYS OF FINAL GRADING.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION AND FOR THE REMOVAL OF SILT BEYOND THE PROJECT LIMITS RESULTING FROM CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EROSION CONTROL MEASURES AFTER PERMANENT SOIL STABILIZATION IS FULLY ESTABLISHED AND ACCEPTED BY OWNER.

ESC SEED MIXTURE:
10% HIGHLAND COLONIAL BENT GRASS
40% PERENNIAL RYEGRASS
40% PENLAWN RED FESCUE
10% WHITE CLOVER

NOTE: SEE SHEET D4 FOR POND SEED MIX DETAIL

9. ALL WORK ASSOCIATED WITH STABILIZING THE DISTURBED AREAS SHALL BE IN ACCORDANCE WITH THE DEPT. OF ECOLOGY STORMWATER MANAGEMENT MANUAL, AUGUST, 2001 (WSDE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON)

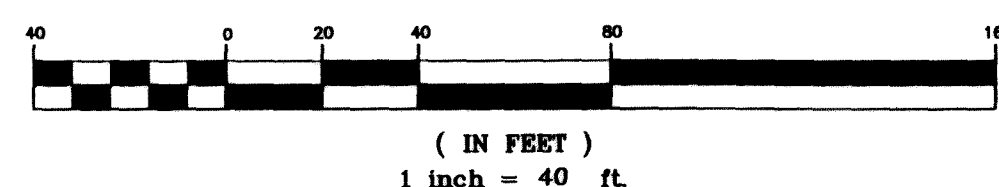
EROSION/SEDIMENTATION CONTROL & ROADSIDE PLANTING

- 1) APPROVAL OF THE EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTIONS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- 2) THE IMPLEMENTATION OF THE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- 3) THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- 4) THE ESC FACILITIES SHOWN ON THE PLANS MUST BE CONSTRUCTED PRIOR TO ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
- 5) THE ESC FACILITIES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL, SLOOPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
- 6) THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- 7) ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 7 DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.).
- 8) ANY AREA NEEDING ESC MEASURE, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
- 9) THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
- 10) AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSIDE SYSTEM.
- 11) STABILIZED CONSTRUCTION ENTRANCES AND WASH PADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 12) DURING THE TIME PERIOD OF NOVEMBER 1 THROUGH MARCH 31, ALL PROJECT DISTURBED AREAS GREATER THAN 5,000 SQUARE FEET THAT ARE TO BE LEFT UNWORKED FOR MORE THAN 12 HOURS, SHALL BE COVERED BY ONE OF THE FOLLOWING COVER MEASURES: MULCH, SODDING OR PLASTIC COVERING.
- 13) PUBLIC RIGHTS OF WAY SHALL BE KEPT IN A CLEAN AND SERVICEABLE MANNER AT ALL TIMES. IN THE EVENT MATERIAL ARE INADEQUATELY DEPOSITED ON ROADWAYS, THE MATERIAL SHALL BE PROMPTLY REMOVED. MATERIALS ARE TO BE SWEEPED AND REMOVED PRIOR TO ANY FLOODING. ALL STREETS USED FOR ACCESS MUST BE KEPT CLEAN USING PICK-UP TYPE SWEEPER. PUBLIC AND PRIVATE DRAINAGE WAYS SHALL BE PROTECTED FROM POLLUTION.

TESC SEQUENCE DURING CONSTRUCTION:

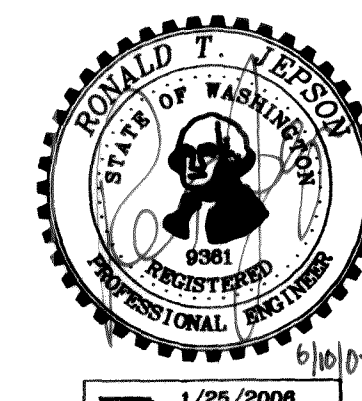
1. ATTEND PRE-CONSTRUCTION CONFERENCE.
2. INSTALL FILTER FABRIC FENCE AS SHOWN ON PLAN.
3. INSTALL ROCK CONSTRUCTION ENTRANCE.
4. EXCAVATE POND FOR USE AS TEMPORARY SEDIMENT POND. THE TEMP. SED. POND BASE ELEVATION SHALL BE 6 INCHES BELOW DETENTION POND BASE AS DESIGNED.
5. GRADE BIOFILTRATION SWALE AND DIVERSION DITCH AS CONVEYANCE TO THE POND AND INSTALL SILT BARRIERS.
6. CLEAR AS NECESSARY FOR CONSTRUCTION AND COMMENCE GRADING OPERATIONS.
7. INSTALL UTILITY LINES AND STORM DRAIN/FLOW CONTROL STRUCTURE(MH ONLY).
8. FINE GRADE POND AND INSTALL FLOW CONTROL IN THE MANHOLE.
9. CLEAN AND REMOVE ALL SILT AND DEBRIS FROM THE DITCH/SWALE/POND. REMOVE ALL TEMP. FEATURES AND PLACE PERMANENT SYSTEM IN OPERATION.

GRAPHIC SCALE



RONALD T. JEPSON & ASSOC.
REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS
222 GRAND, BELLINGHAM, WASHINGTON 98225 PH.(360)733-5760 FAX (360)647-8939

SCALE 1"=40'-0"
DRAWN BY: ZDR
CHECKED BY: T.A.U.
APPROVED BY: R.T.J.
DATE: 10/4/2005



PORTAL MANOR
EROSION CONTROL PLAN

AS BUILT
CLIENT:
WHATCOM SELF HELP HOMES

00130

C2

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN PORTAL MANOR - A PLANNED UNIT DEVELOPMENT HAVE BEEN INSPECTED BY RONALD T. JEPSON & ASSOCIATES AND CONSTRUCTED IN CONFORMANCE WITH THE PLANS APPROVED BY THE PUBLIC WORKS DIRECTOR FOR SAID DEVELOPMENT AND THE GENERAL SPECIFICATIONS ADOPTED BY THE CITY OF FERNDALE DEPARTMENT OF PUBLIC WORKS.

RONALD T. JEPSON

APPROVED

MAY 02 2006
BY [Signature]
CITY OF FERNDALE

TRIGG ROAD R/W TABLE

LENGTH	WIDTH	DETAIL
0+00-2+80	50'	1
2+80-6+05	30'(NO. SIDE)	1
6+05-7+55	60'	2
7+55-13+40	60'(PLAT FRONTAGE)	2
	30'(NORTH SIDE)	

RESURFACE TO CITY STANDARDS - 660LF

X 320
Y 014

X 330
Y 208

X 348
Y 037

X 353
Y 013

X 368
Y 038

X 392
Y 038

X 427
Y 065

PROPERTY NOT SERVED

(COUNTY)

3/4 STREET IMPROVEMENTS - 580LF

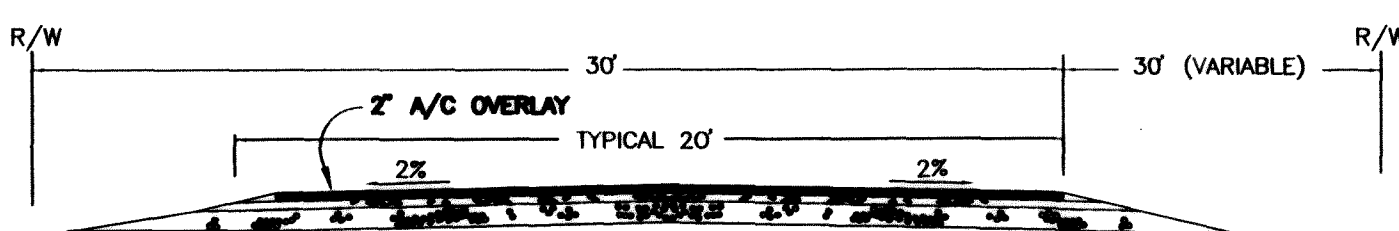
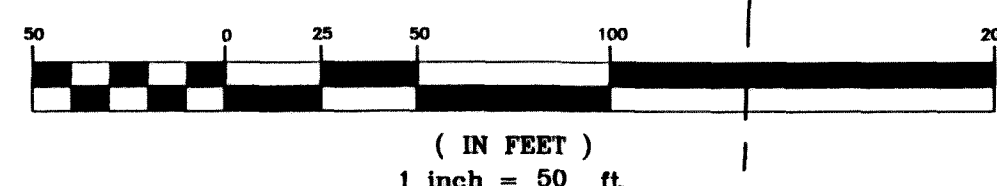
NOTE:
NEW MANHOLE TO BE 10' MIN.
FROM EXIST. 24" CONC.
WATERMAIN

INSTALL REFLECTIVE BUTTONS ON 6FT
SPACING AND PAINT STRIPE TAPER SECTION
AS SHOWN FROM BUTTONS TO CURB

20' GRIND, 0.15' DEPTH

SECTION LINE & R/W LINE

GRAPHIC SCALE



① TRIGG ROAD RESURFACED SECTION

VARIABLE R/W - SEE TABLE ABOVE
(NOT TO SCALE)

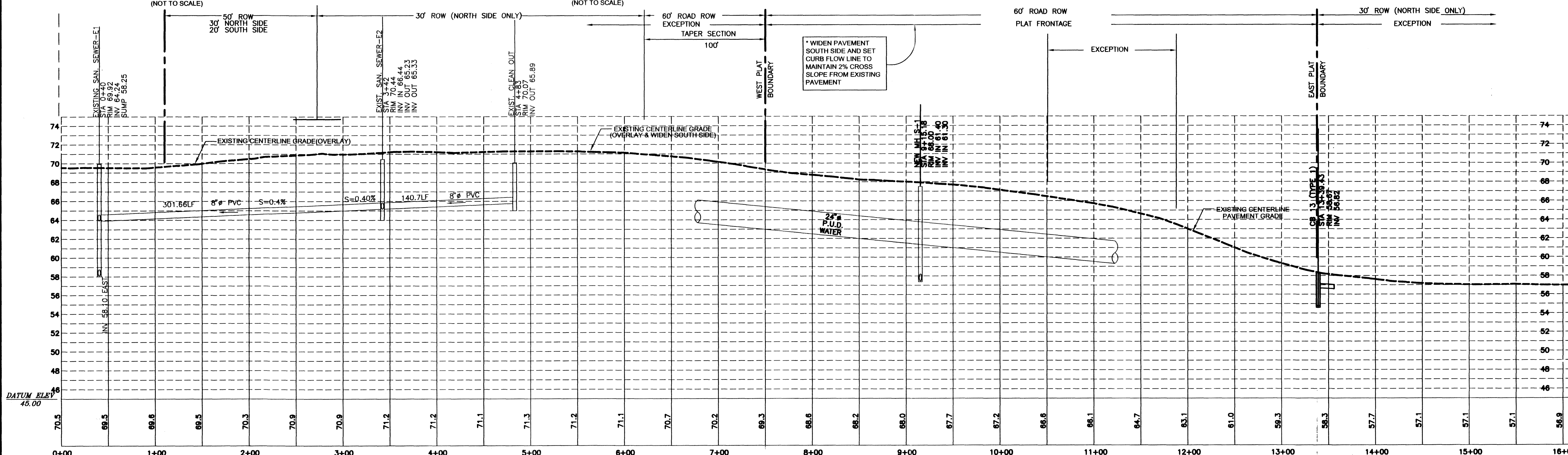
② TRIGG ROAD 3/4 IMPROVEMENT SECTION

PLAT FRONTAGE ONLY - STA 7+55 TO 13+40
(NOT TO SCALE)

GEOTEST SERVICES, INC. TEST RESULTS DICTATE:

- 1) REMOVE OR GRIND AND REUSE EXISTING CHIP SEAL PAVEMENT ALONG PLAT FRONTAGE AND CONSTRUCT TO SAME STANDARDS & SECTION TO BE UTILIZED FOR WIDENED SECTION
- 2) CREATE CROWN AT 18FT FROM NEW CURB FACE.

1. EXISTING ROAD IS "CHIPSEAL"
2. PROVIDE CORE TESTING & GEOTECHNICAL REVIEW.
3. EXISTING TRIGG ROAD TO BE CERTIFIED BY A GEOTECHNICAL ENGINEER AS TO BEING ADEQUATE FOR INTENDED USE PRIOR TO OVERLAY. INADEQUATE SUBGRADE SHALL REQUIRE FULL ROAD RECONSTRUCTION.
4. RE-STRIP TRIGG ROAD AFTER WIDENING & OVERLAY. REMARK CENTERLINE, FOG LINES, AND STOP BARS.



TRIGG ROAD ALIGNMENT & SANITARY SEWER PROFILE

HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

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RONALD T. JEPSON

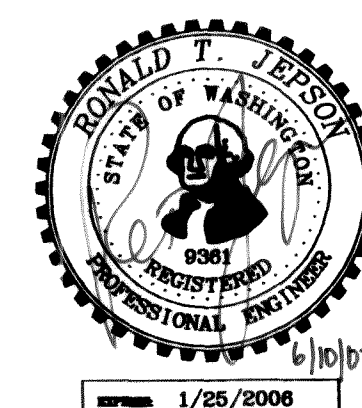
RONALD T. JEPSON & ASSOC.

REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS

222 GRAND, BELLINGHAM, WASHINGTON 98225 PH.(360)733-5760 FAX (360)647-8939

SCALE: NA
DRAWN BY: P.T.J.
CHECKED BY: T.A.U.
APPROVED BY: R.T.J.
DATE: 08-22-2005

REVISION
REDLINE 4-9-2003



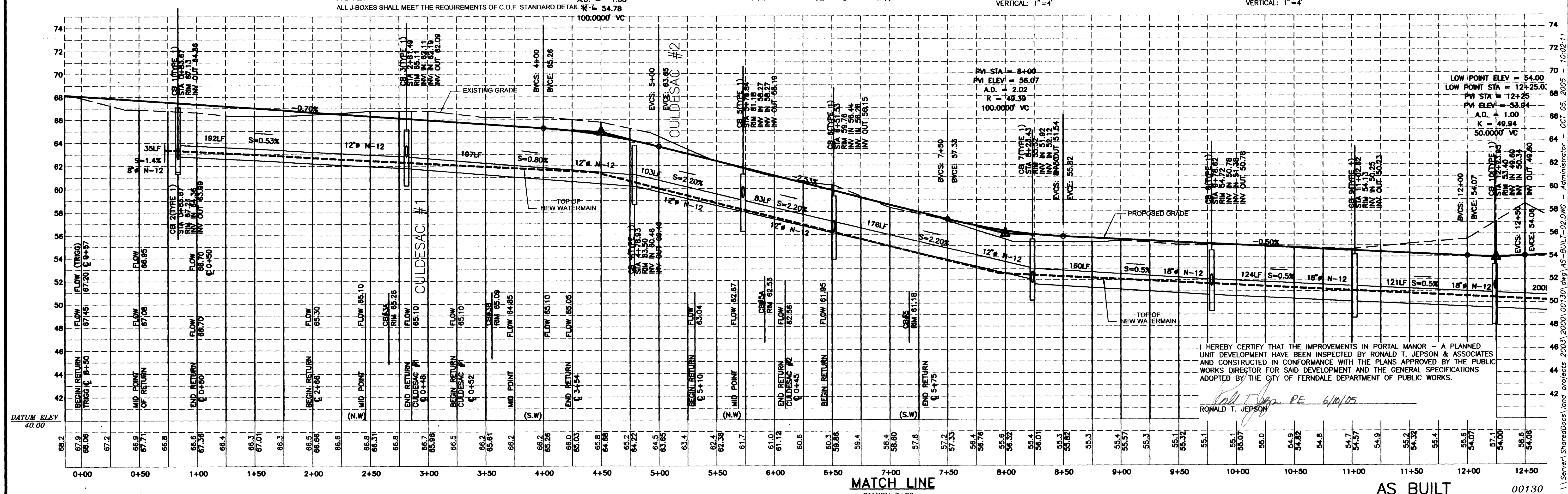
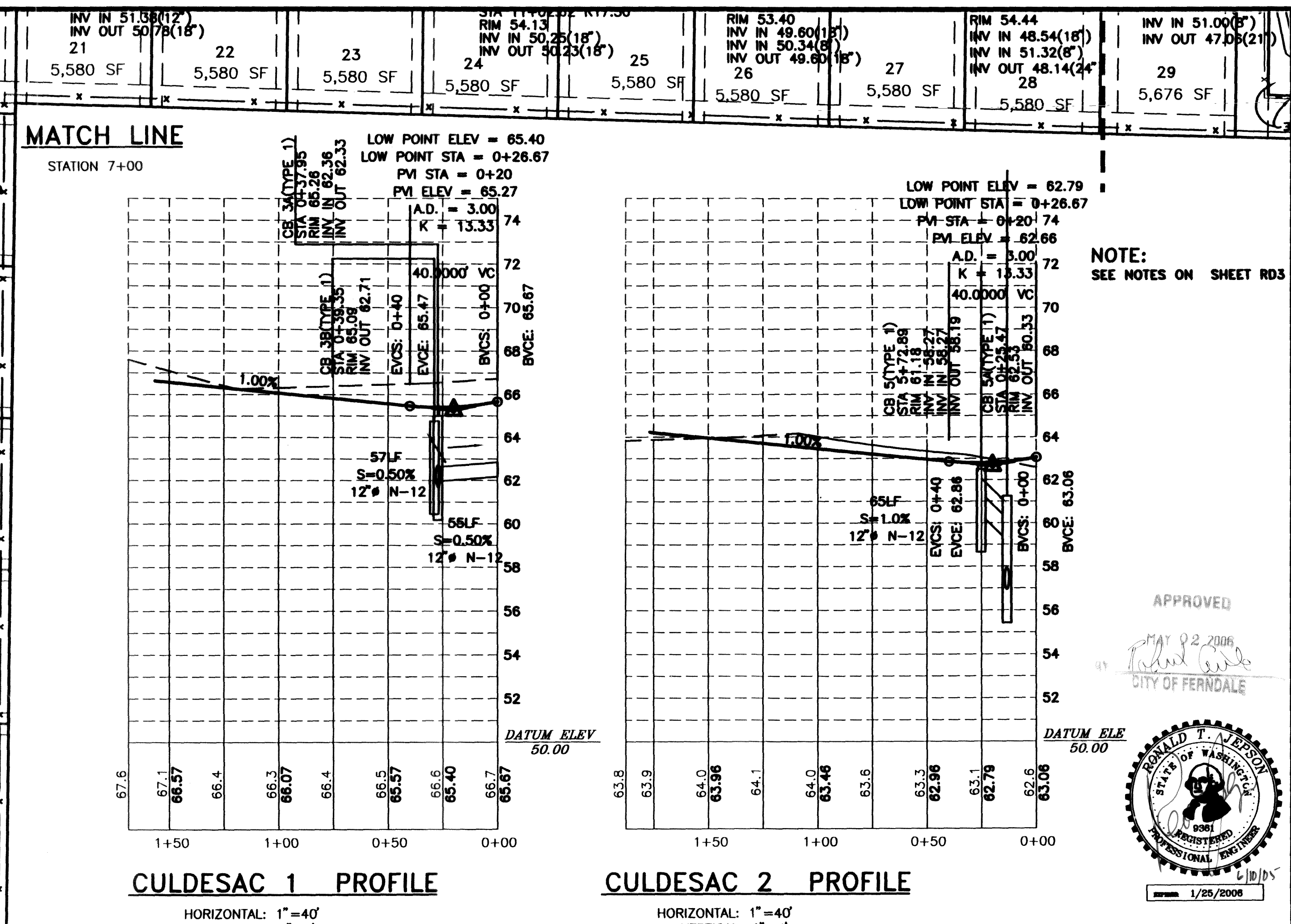
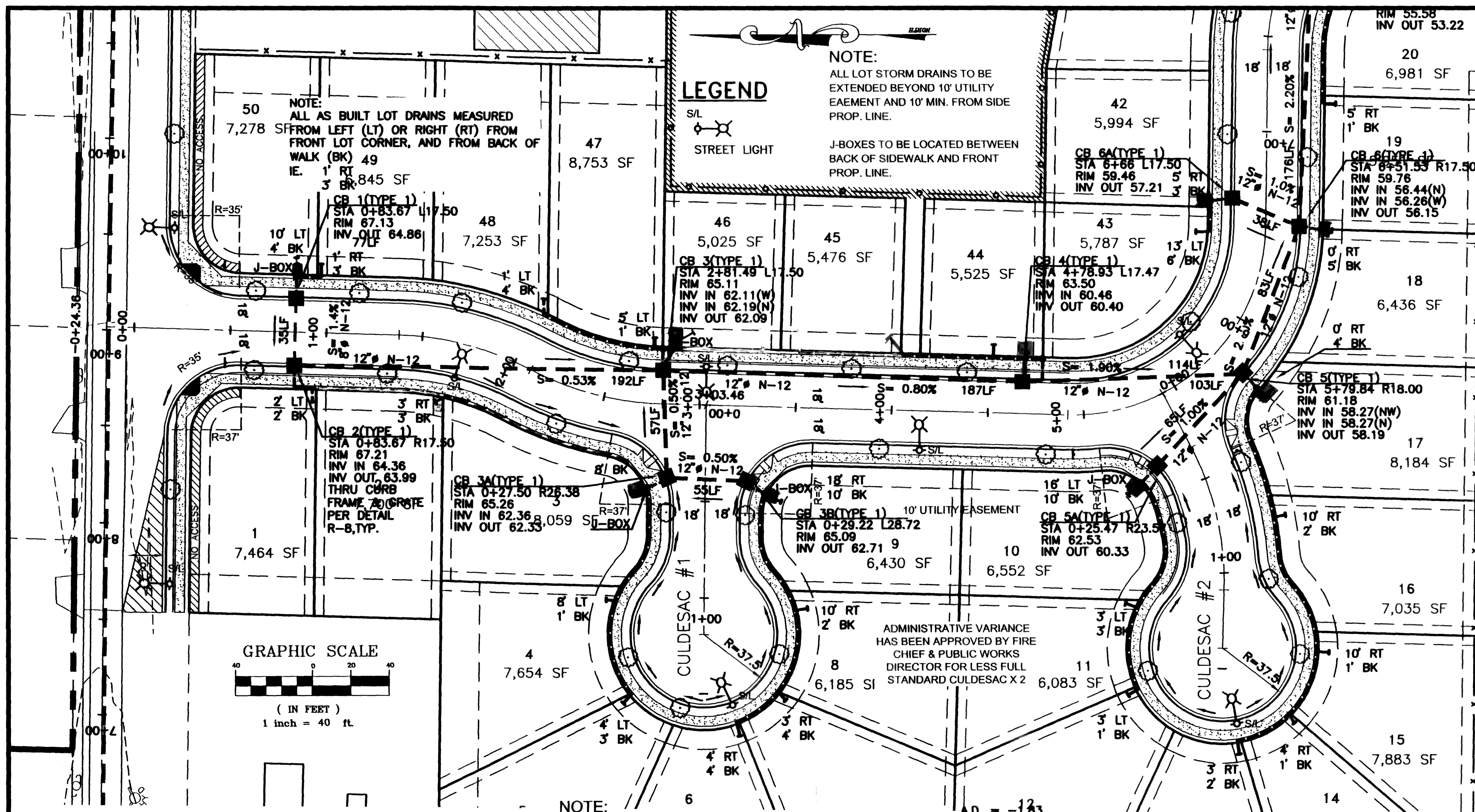
TRIGG ROAD
ROAD ALIGNMENT
& SEWER PLAN/PROFILE

AS BUILT
CLIENT:
WHATCOM SELF HELP HOMES

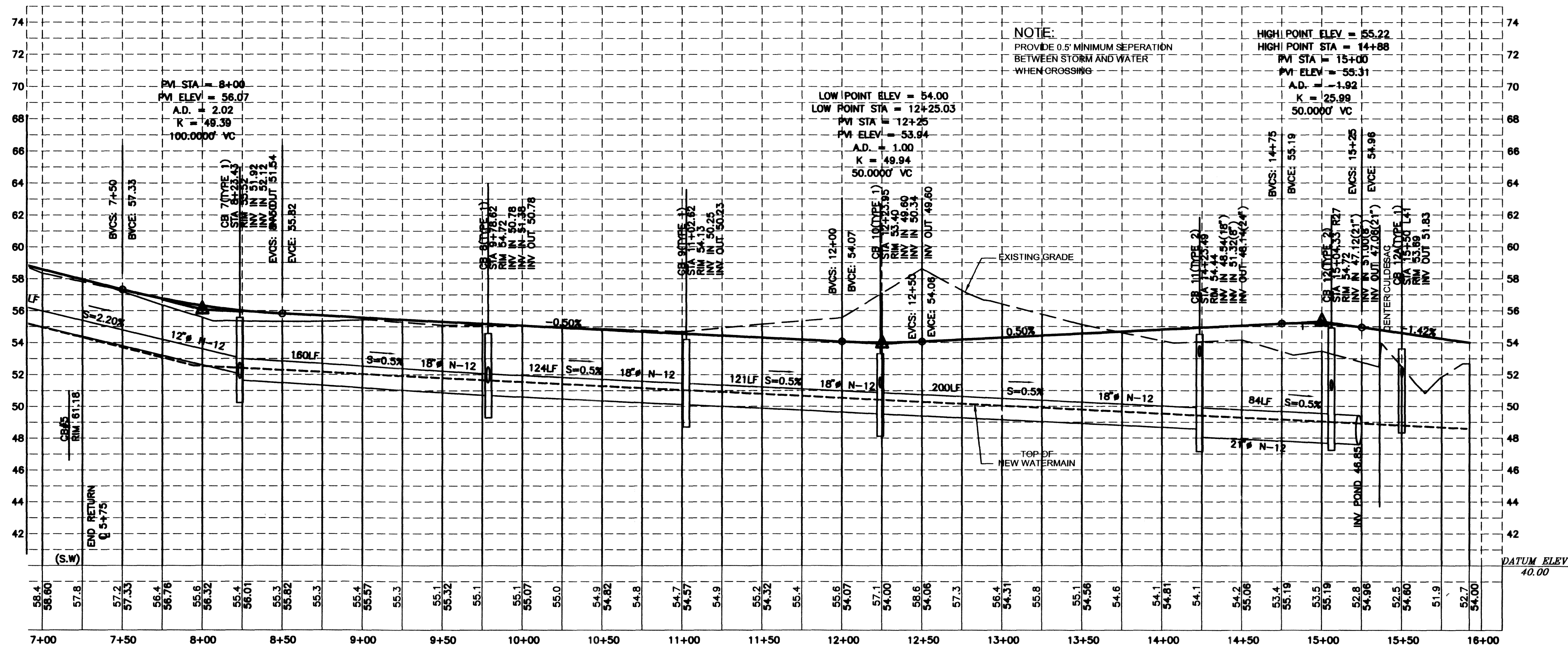
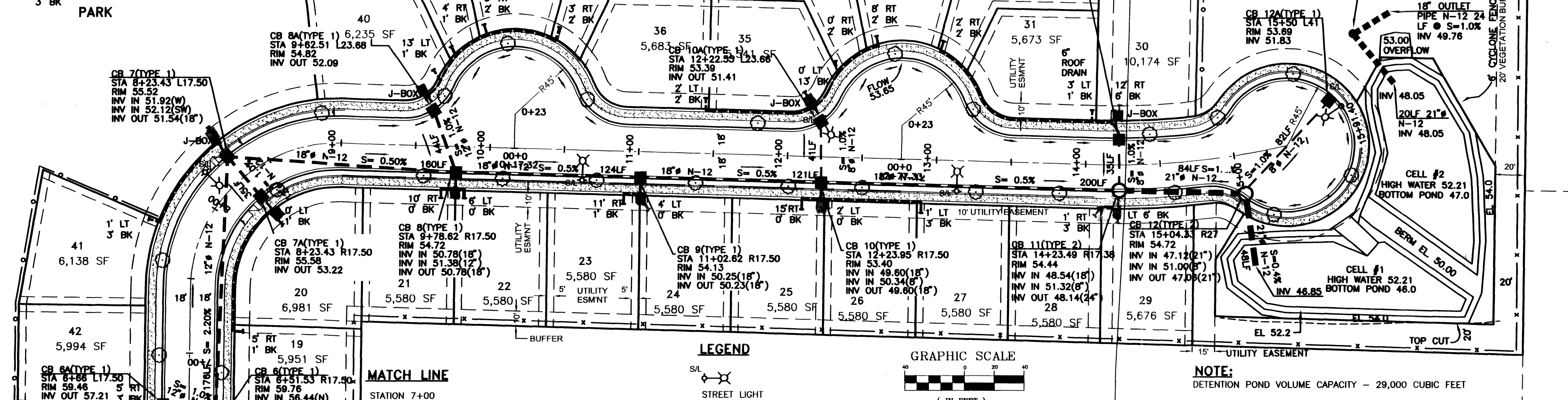
00130

RD1

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NOTE:
ALL AS BUILT LOT DRAINS MEASURED
FROM LEFT (LT) OR RIGHT (RT) FROM
FRONT LOT CORNER, AND FROM BACK OF
WALK (BK)
IE. 1' RT
3' BK



*STREET SECTION SHALL CONFORM WITH CITY OF FERNDAL
STANDARD (R-4) - *SEE DETAIL SHT D-1

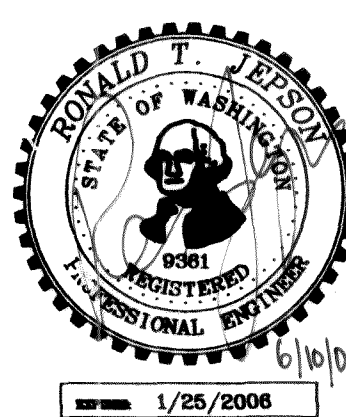
NOTE:
ALL LOT STORM DRAINS TO BE EXTENDED BEYOND 10' UTILITY
EASEMENT AND 10' MIN. FROM SIDE PROP. LINE.
J-BOXES TO BE LOCATED BETWEEN BACK OF SIDEWALK AND FRONT
PROP. LINE. SEE DETAIL ST-7 ON SHEET D2.
BACK OF WALK STORM LINES TO BE 6" PVC, SLOPE AT 0.5%.
PVC STORM PIPE SHALL MEET THE REQUIREMENTS OF WSDOT
9-05.12(1).

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WORKS DIRECTOR FOR SAID DEVELOPMENT AND THE GENERAL SPECIFICATIONS
ADOPTED BY THE CITY OF FERNDAL DEPARTMENT OF PUBLIC WORKS.

APPROVED
RONALD T. JEPSON
6/10/05
CITY OF FERNDAL

RONALD T. JEPSON & ASSOC.
REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS
222 GRAND, BELLINGHAM, WASHINGTON 98225 PH.(360)733-5760 FAX (360)647-8939

SCALE	AS SHOWN
DRAWN BY	KDR
CHECKED BY	R.T.J.
APPROVED BY	R.T.J.
DATE	10/4/2005



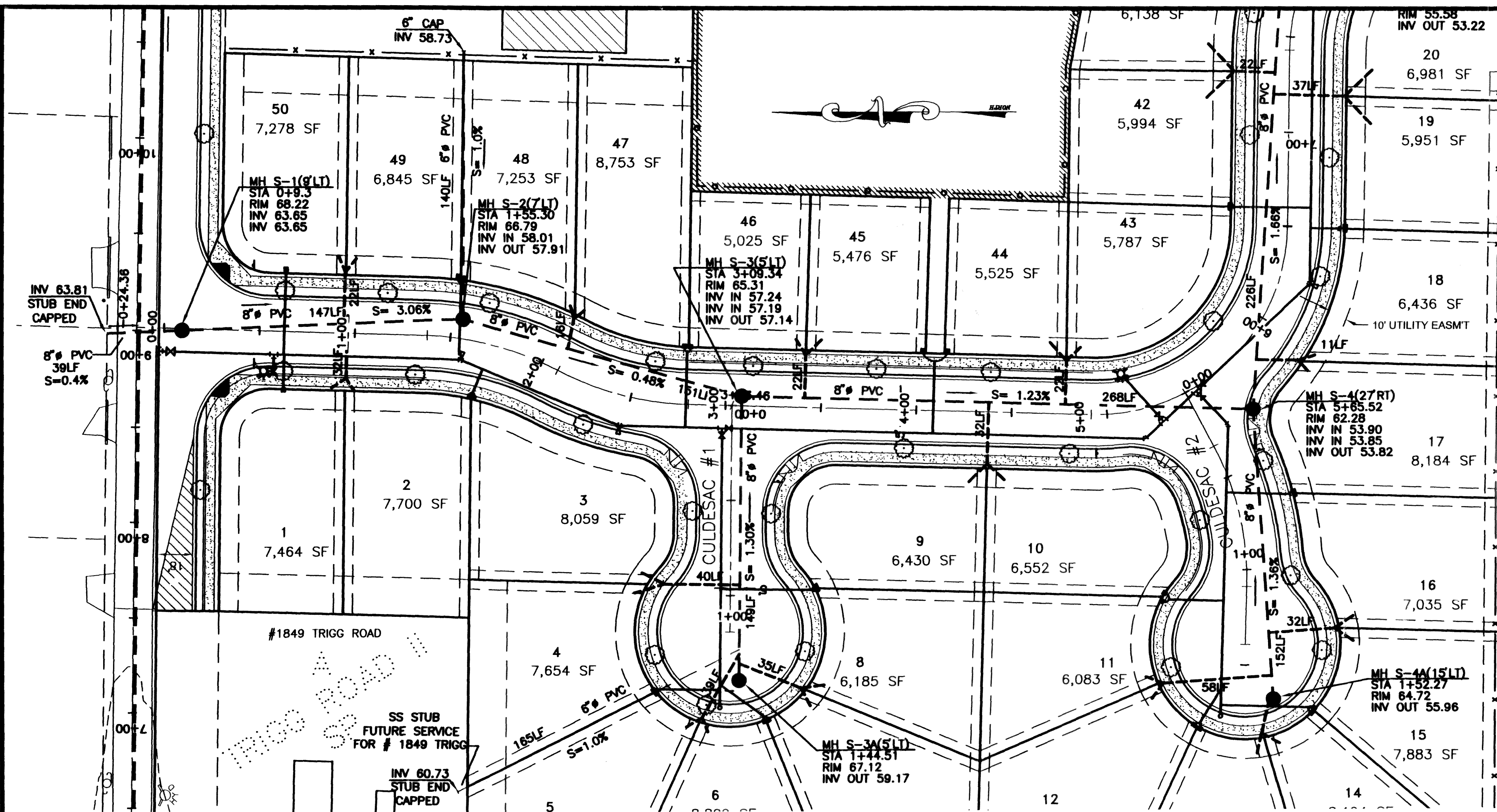
PORTAL MANOR
STORM DRAINAGE SYSTEM & ROAD PLAN AND PROFILE

AS BUILT
CLIENT:
WHATCOM SELF HELP HOMES

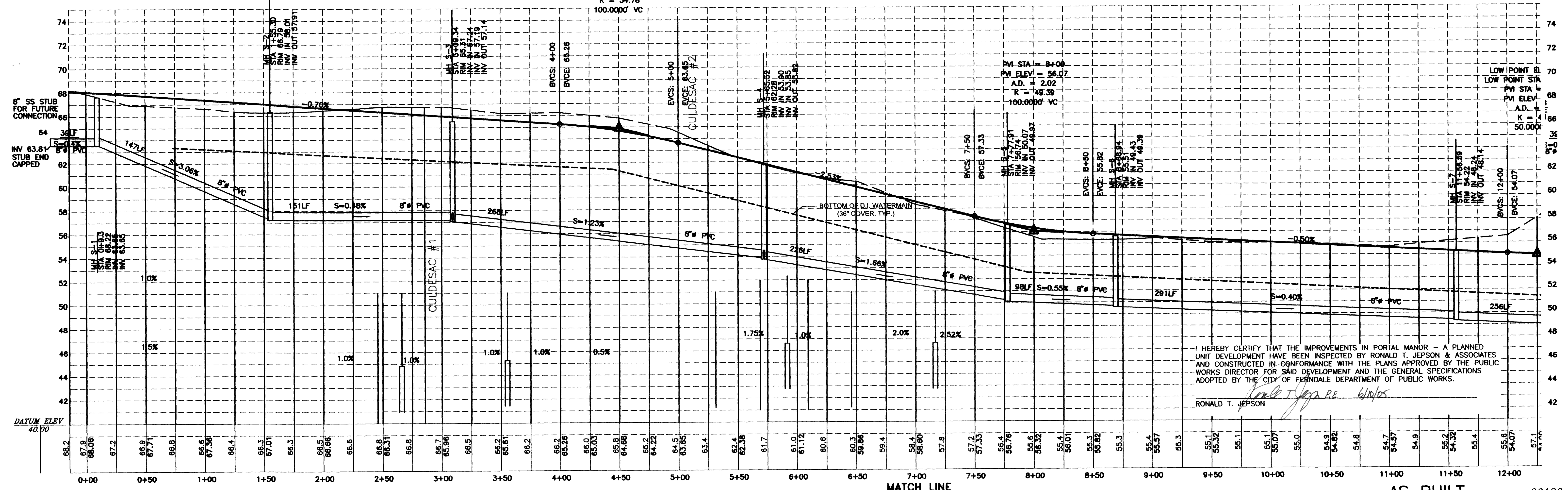
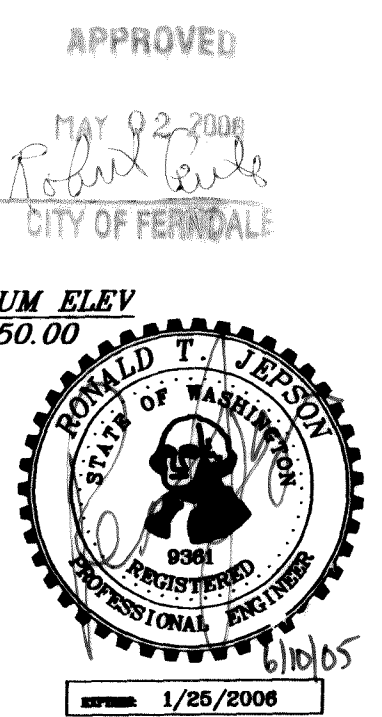
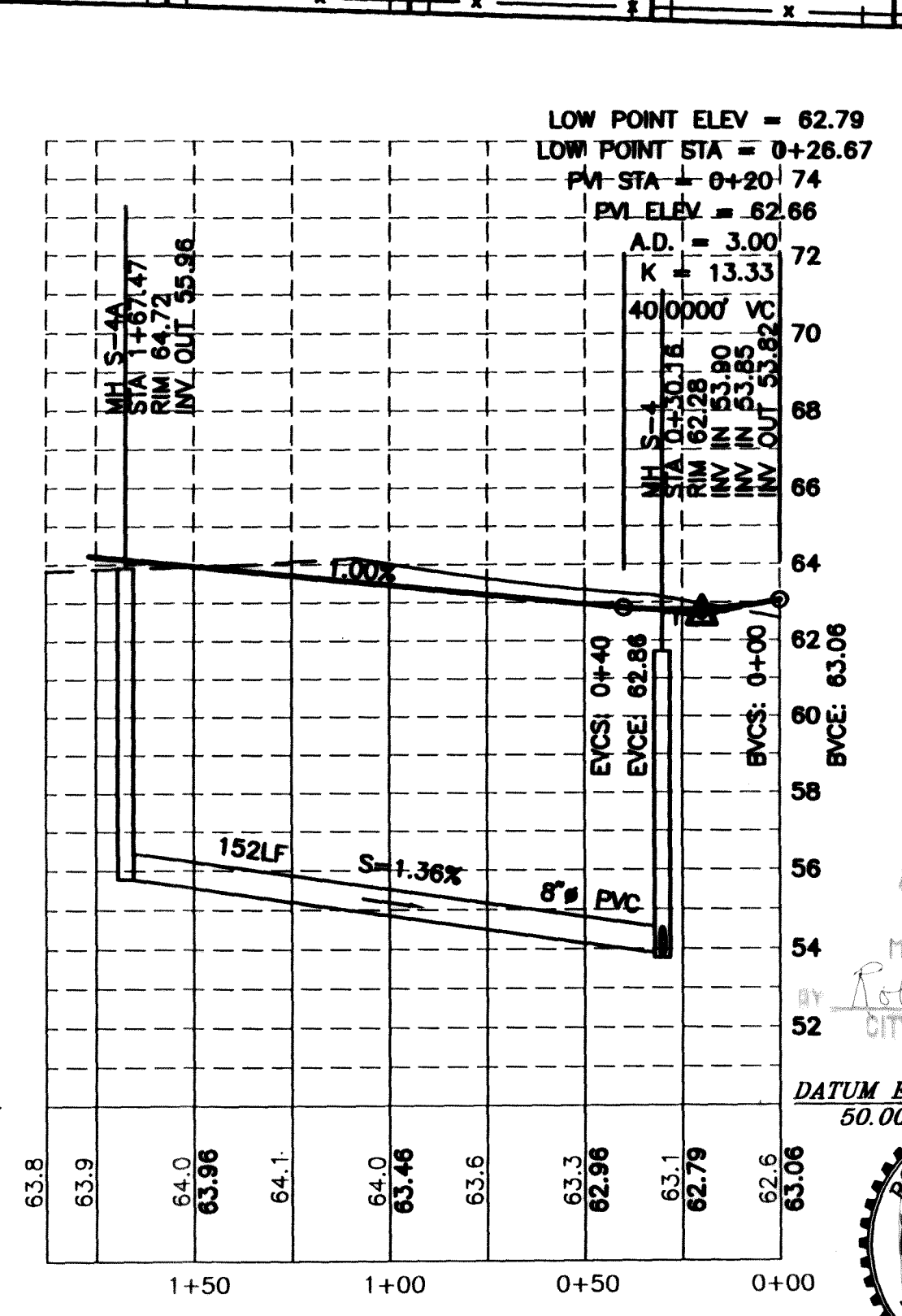
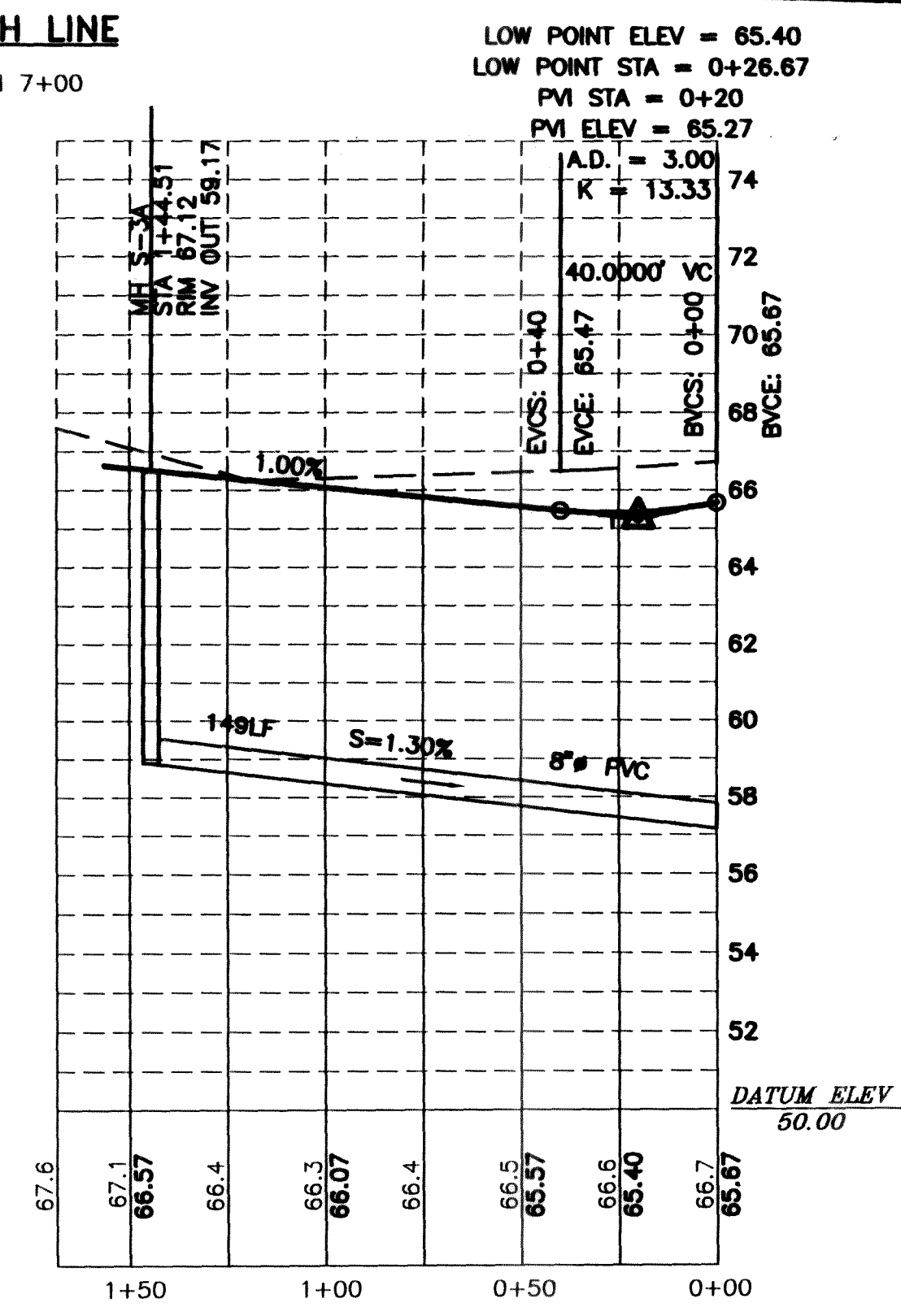
00130

RD3

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MATCH LINE
STATION 7+00



RONALD T. JEPSON & ASSOC.
REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS
222 GRAND, BELLINGHAM, WASHINGTON 98225 PH.(360)733-5760 FAX (360)647-8939

SCALE: AS SHOWN
DRAWN BY: ROR
CHECKED BY: T.A.U.
APPROVED BY: R.T.J.
DATE: 10/4/2006

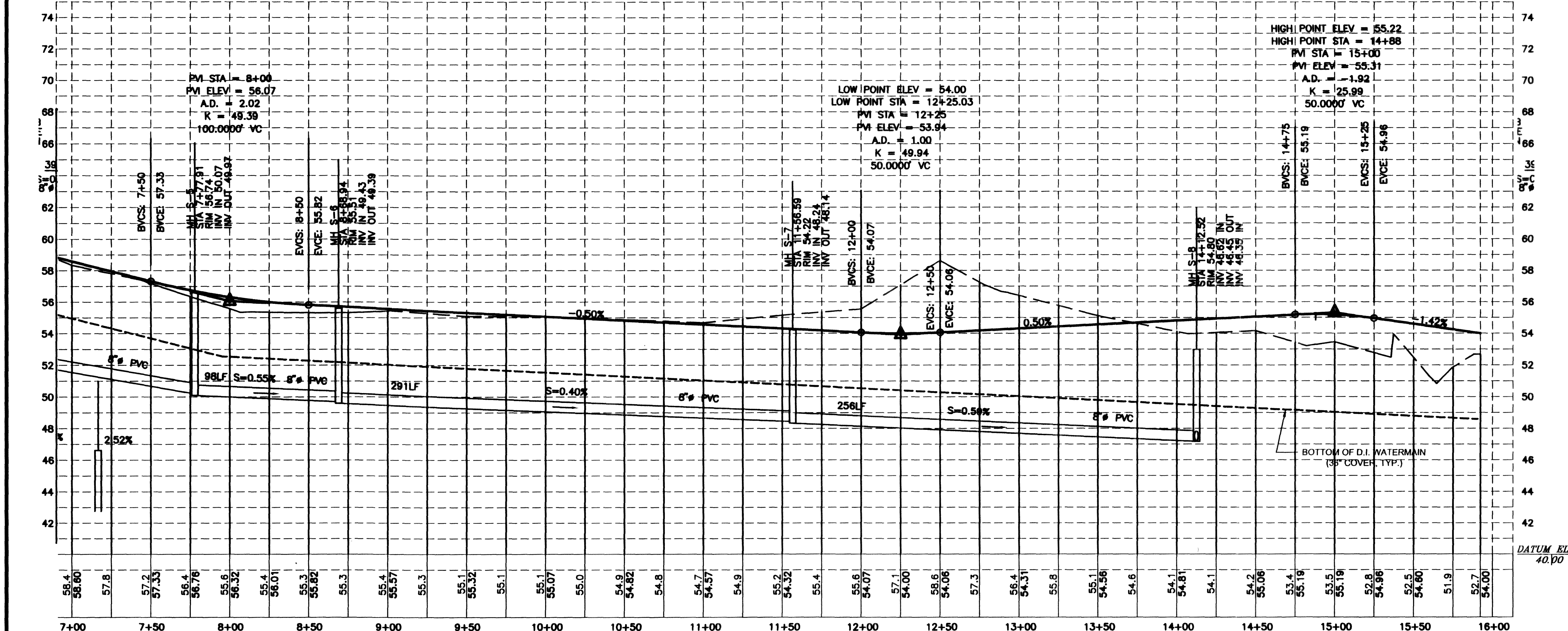
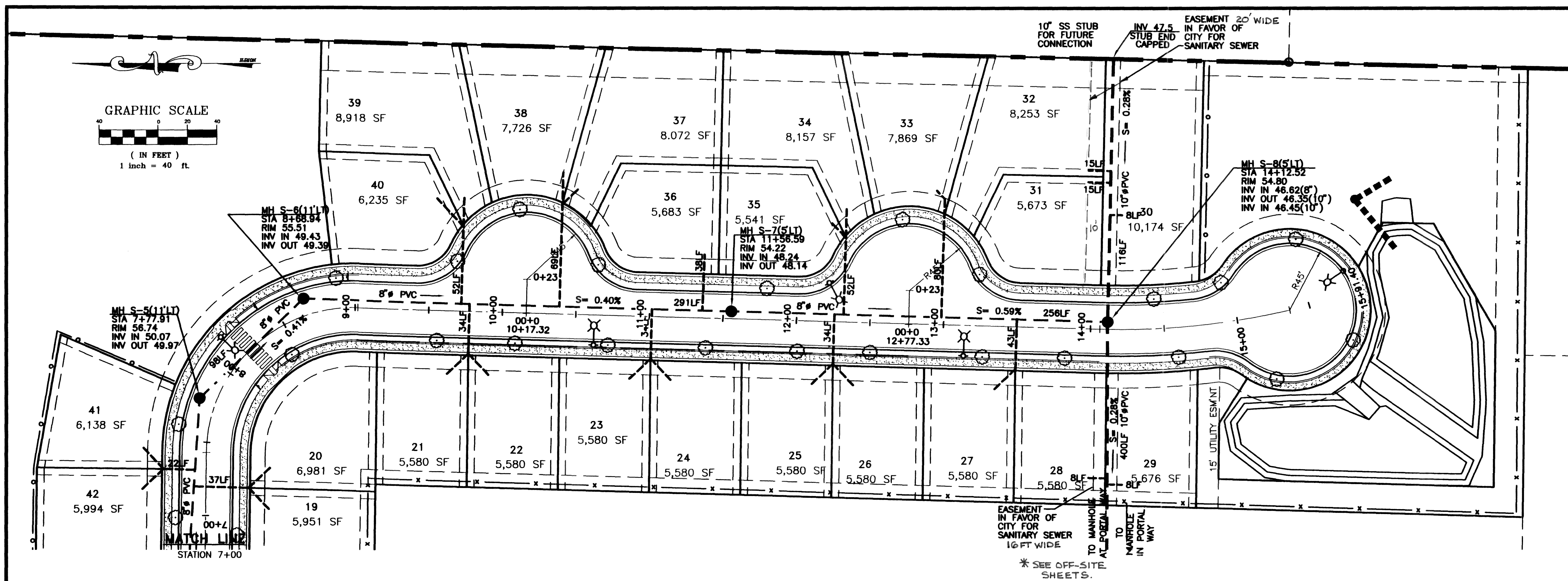
REVISION

PORTAL MANOR
SANITARY SEWER SYSTEM PLAN AND PROFILE

CLIENT:
WHATCOM SELF HELP HOMES

S1

\\Server\SharedDocs\land projects 2003\2000\00130.dwg AS-BUILT-02.DWG - Administrator - OCT 05, 2005 - 13:04:27



MATCH LINE
STATION 7+00
SANITARY SEWER SYSTEM PROFILE
HORIZONTAL: 1"=40'
VERTICAL: 1"=4'

RONALD T. JEPSON & ASSOC.
REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS
222 GRAND, BELLINGHAM, WASHINGTON 98225 PH.(360)733-5760 FAX (360)647-8939

SCALE: AS SHOWN
DRAWN BY: KJR
CHECKED BY: T.A.D.
APPROVED BY: R.T.J.
DATE: 10/4/2005

REVISION



PORTAL MANOR
SANITARY SEWER SYSTEM PLAN AND PROFILE

AS BUILT
CLIENT: WHATCOM SELF HELP HOMES

00130
S2

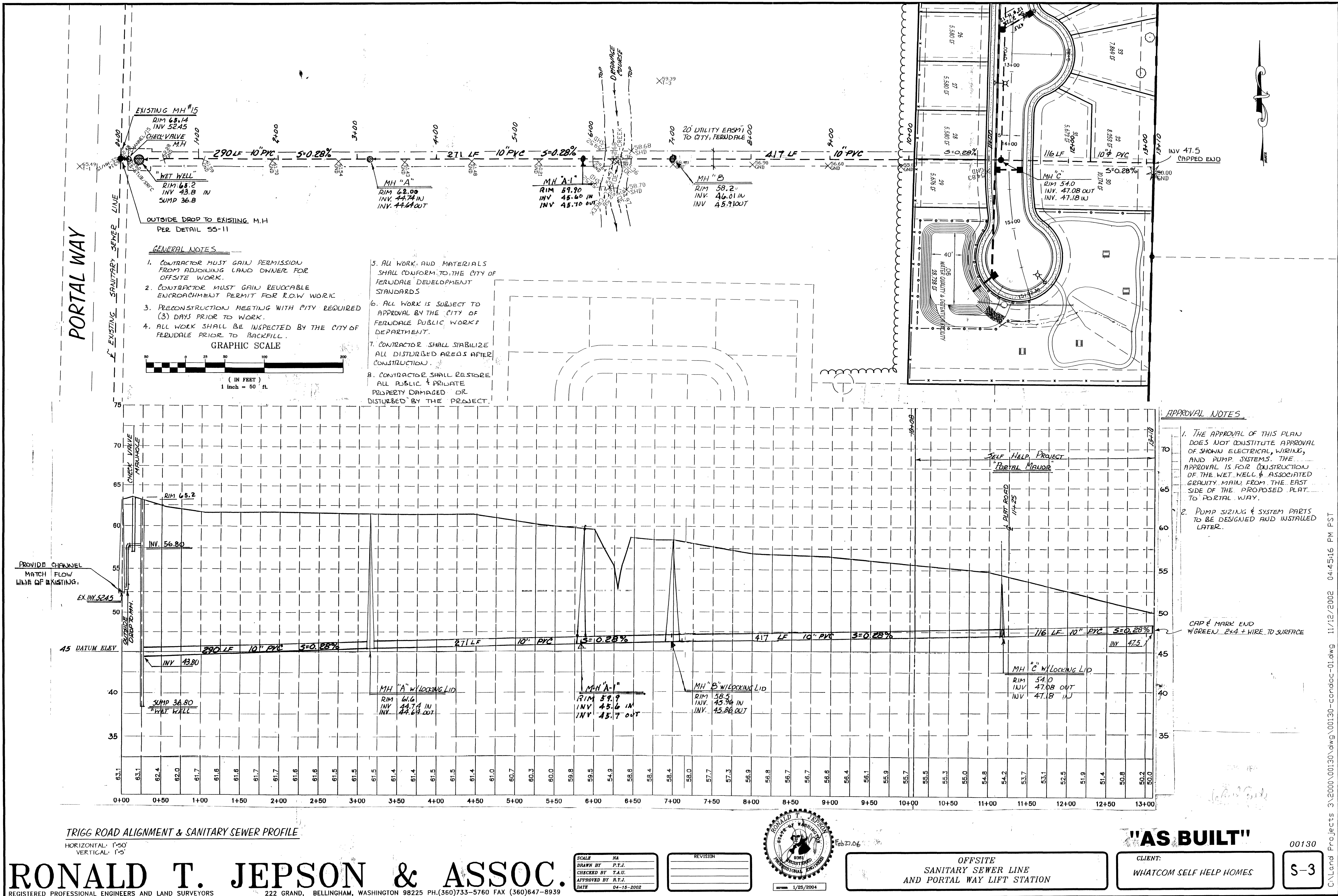
I HEREBY CERTIFY THAT THE IMPROVEMENTS IN PORTAL MANOR - A PLANNED UNIT DEVELOPMENT HAVE BEEN INSPECTED BY RONALD T. JEPSON & ASSOCIATES AND CONSTRUCTED IN CONFORMANCE WITH THE PLANS APPROVED BY THE PUBLIC WORKS DIRECTOR FOR SAID DEVELOPMENT AND THE GENERAL SPECIFICATIONS ADOPTED BY THE CITY OF FERDALE DEPARTMENT OF PUBLIC WORKS.

APPROVED
MAY 12 2006
BY: [Signature]
CITY OF FERDALE

RONALD T. JEPSON, P.E. 6/10/05

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00323.011 S-9.06 KR



CONNECTION PER CITY OF FERNDALE
(SEE WATER NOTES, THIS SHEET)

STUB
UTILITY
SECTION

EXISTING 24" CONCRETE WATER MAIN

EXISTING 8" D.I. WATER MAIN

EXISTING 8" D.I. WATER MAIN

EXISTING 8" D.I. WATER MAIN

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WORKS DIRECTOR FOR SAID DEVELOPMENT AND THE GENERAL SPECIFICATIONS
ADOPTED BY THE CITY OF FERNDALE DEPARTMENT OF PUBLIC WORKS.

RONALD T. JEPSON

6/10/05

RONALD T. JEPSON & ASSOC.
REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS
222 GRAND, BELLINGHAM, WASHINGTON 98225 PH.(360)733-5760 FAX (360)647-8939

SCALE AS SHOWN
DRAWN BY KDR
CHECKED BY T.A.U.
APPROVED BY R.T.J.
DATE 10/4/2005

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

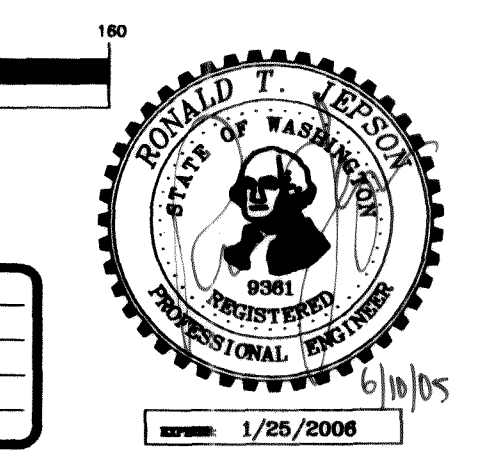


TABLE OF QUANTITIES

8" C50	1622LF
6" C50	304LF
6" HYDRANT	4 EA.
6" GATE VALVE	6 EA.
8" GATE VALVE	4 EA.
8" CAP	1 EA.
1" SERVICE (DOUBLE)	23 EA.
3/4" SERVICE (SINGLE)	6 EA.
2" BLOWOFF	2 EA.

AS BUILT
PORTAL MANOR
WATER SYSTEM PLAN

WATER NOTES

- AIR VACUUM/RELEASE VALVE ASSEMBLIES AT ALL HIGH POINTS IN LINE
- MAINTAIN MINIMUM OF 3.5' OF COVER OVER LINE
- ALL WATERMAIN SHALL BE CLASS 50 DUCTILE CAST-IRON COFDS.
- COORDINATE CONNECTION WITH CITY.
- SEPERATION REQUIRED UNTIL BACTERIA & PRESSURE TESING HAVE PASSED.
- CONTRACTOR TO MAKE CONNECTION IN THE PRESENCE OF CITY INSPECTOR.

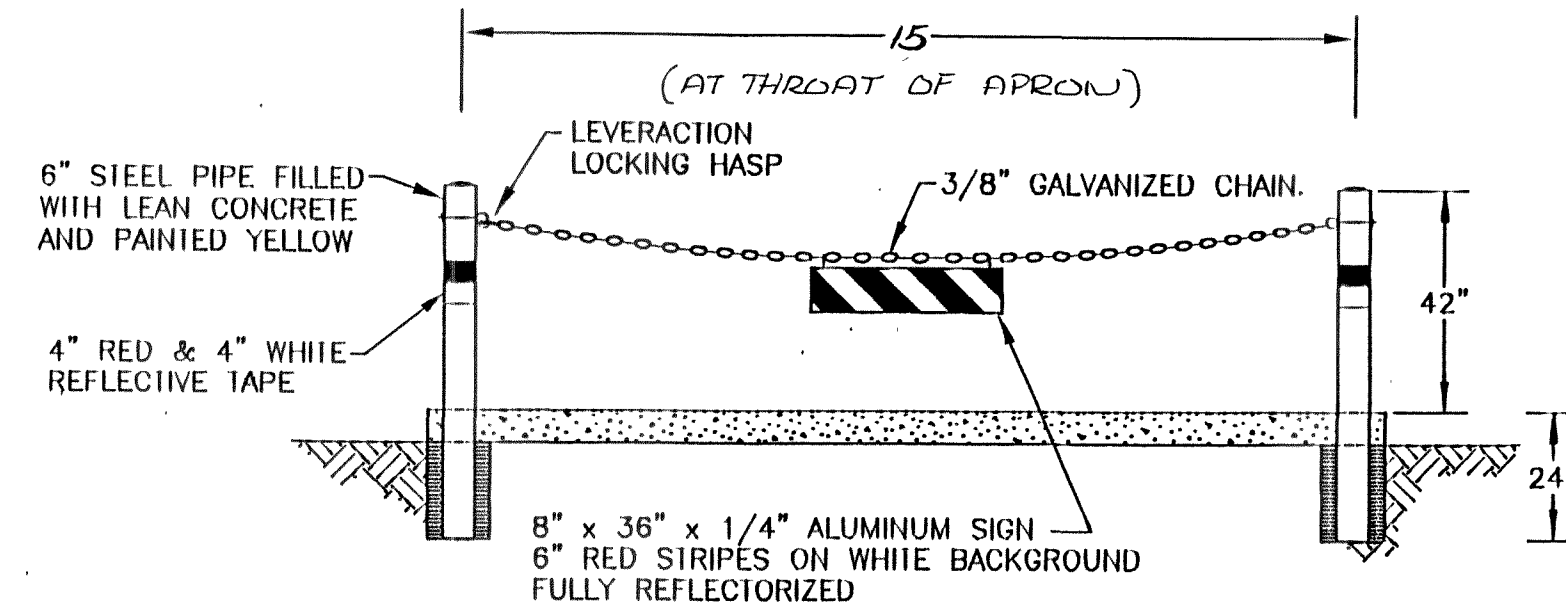
CLIENT:
WHATCOM SELF HELP HOMES

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W1

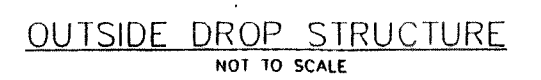
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00323.D13 5.9.06 RK



NOT TO SCALE

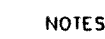
NOT TO SCALE



NOT TO SCALE

JUNE 1995

2091SE3A/SS-11



1. Provide uniform support under barrel.
2. Hang lamp under houches.
3. Compact bedding material to 95% MAX density except directly over pipe, hang lamp only.
4. See "Excavation and Preparation of Trench" in the Sanitary Sewers section of the Standard Specifications for trench width and "B" and trenching options. The pipe zone will be the actual trench width, plus 12" for Class A bedding. The minimum concrete width shall be 12" x 10'.
5. Trench backfill shall conform to "Backfilling Sewer Trenches" in the Sanitary Sewers section of the Standard Specifications, except that rocks or lumps of material greater than 12" in diameter shall not be used in the backfill material.
7. See "Bedding Material for Flexible Pipe" in the Aggregates section of the Standard Specifications for the material specifications. 201.1.1.30
8. Pipe must be anchored in such a manner as to ensure flow line is maintained.

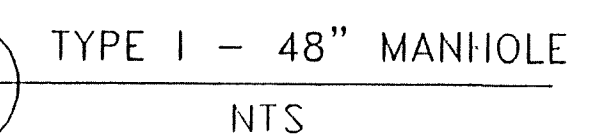
BEDDING CLASS DESIGN					
DIMENSION	CLASS A # MN 1/4" ID 12" MAX	CLASS B	CLASS C	CLASS D	CLASS
A		•	•	•	•
B	1/4 O.D.	1/2 O.D.	1/8 O.D.	Zero	O.D.
C	3/4 O.D.	1/2 O.D.	7/8 O.D.	O.D.	-

NOT TO SCALE

APPROVED	CITY OF FERNDALE PIPE BEDDING FOR SANITARY SEWERS	DRAWING SS-1
Public Works Director Date		

JUNE 1995

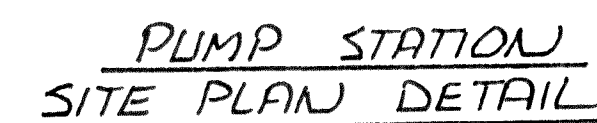
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NOT TO SCALE

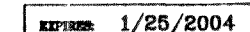
JANUARY 1993

S-4



SCALE	NA
DRAWN BY	P.T.J.
CHECKED BY	T.A.U.
APPROVED BY	R.T.J.
DATE	04-15-2002

REVISION

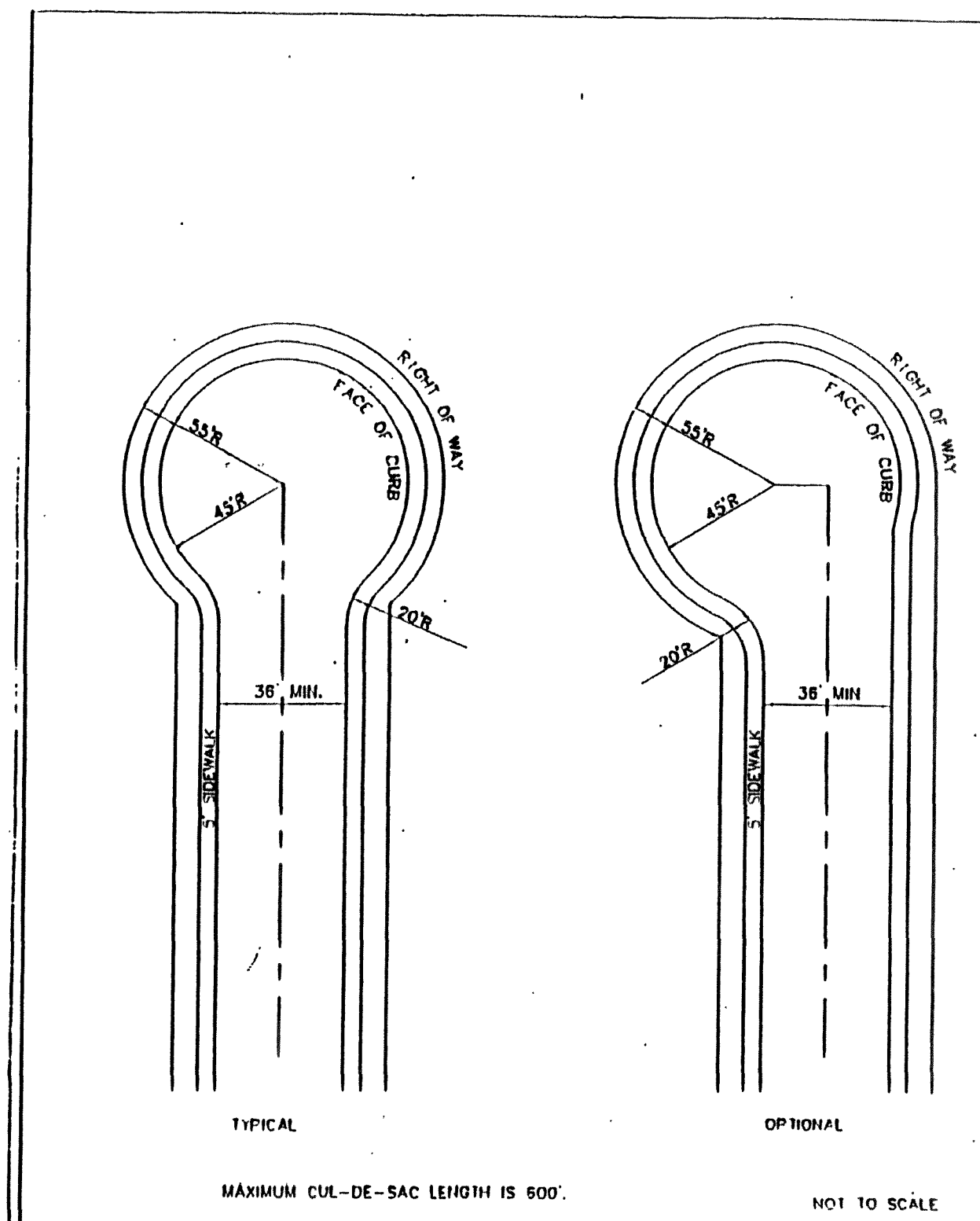


SANITARY SEWER PUMP STATION

CLIENT:
WHATCOM SELF HELP HOMES

S-4

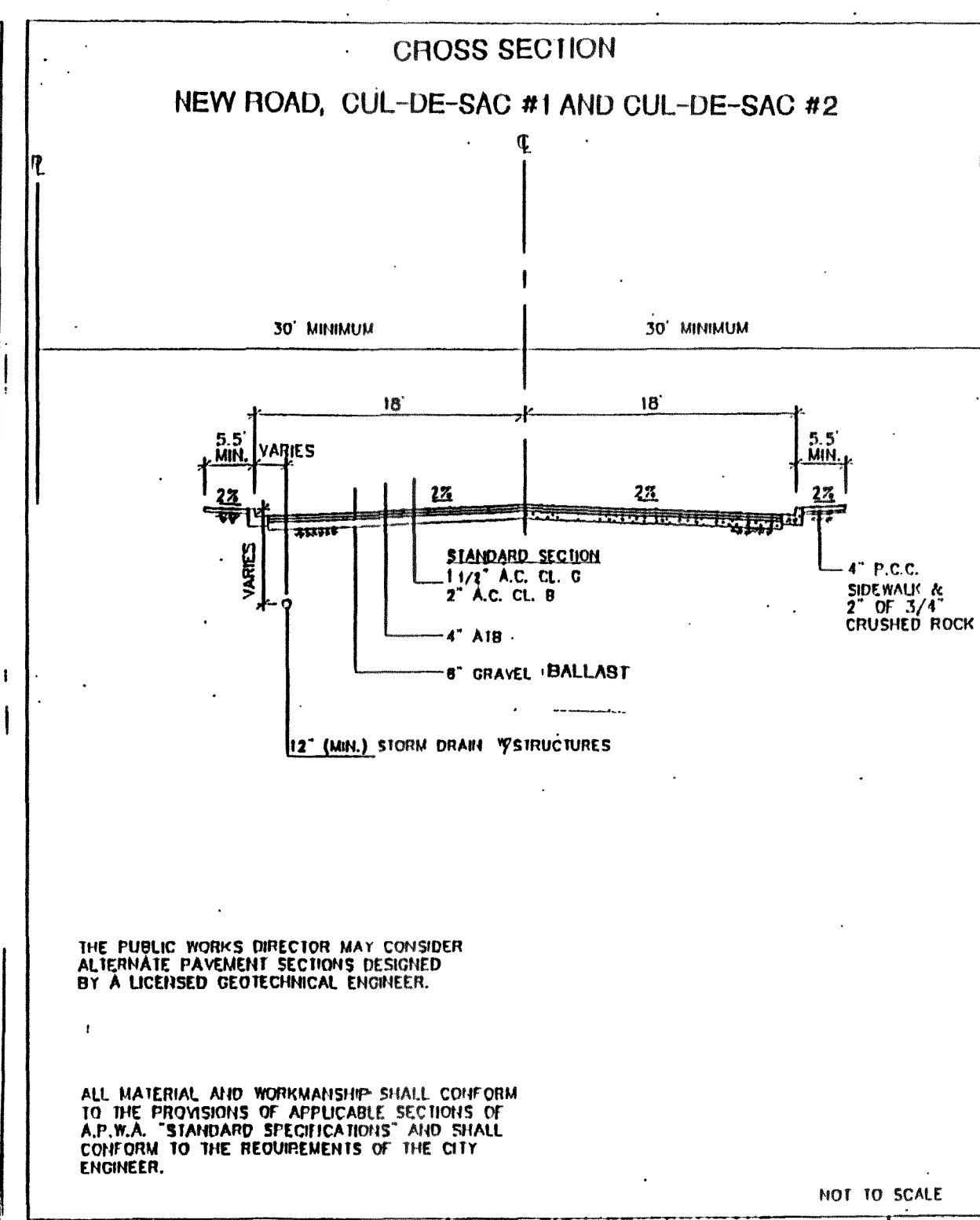
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APPROVED: *John T. Jepson*
Public Works Director Date

CITY OF FERDALE
TYPICAL AND OPTIONAL CUL DE SAC

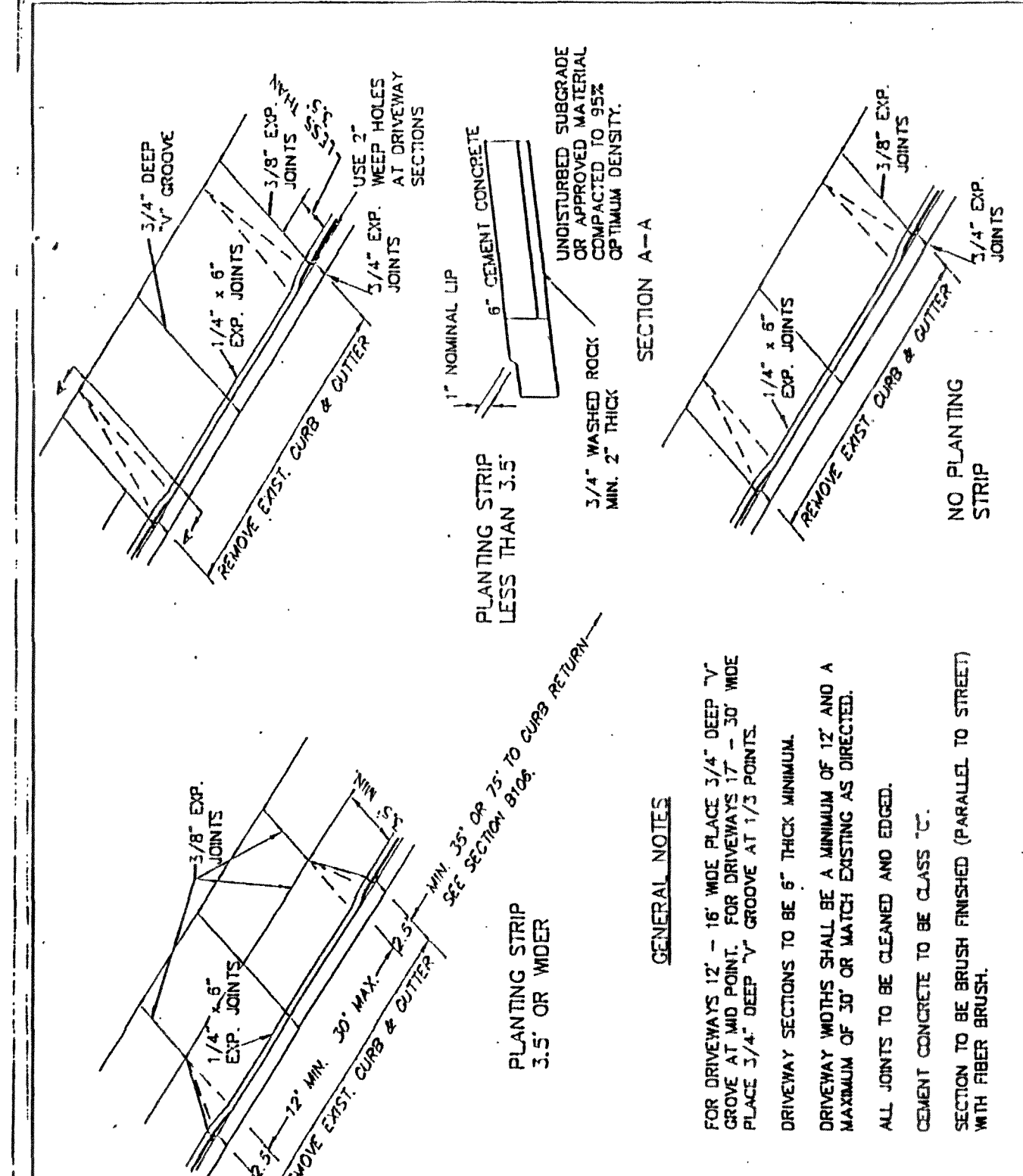
DRAWING: R-5



APPROVED: *John T. Jepson*
Public Works Director Date

CITY OF FERDALE
MINIMUM STANDARD ASPHALT CONCRETE SECTION LOCAL STREET

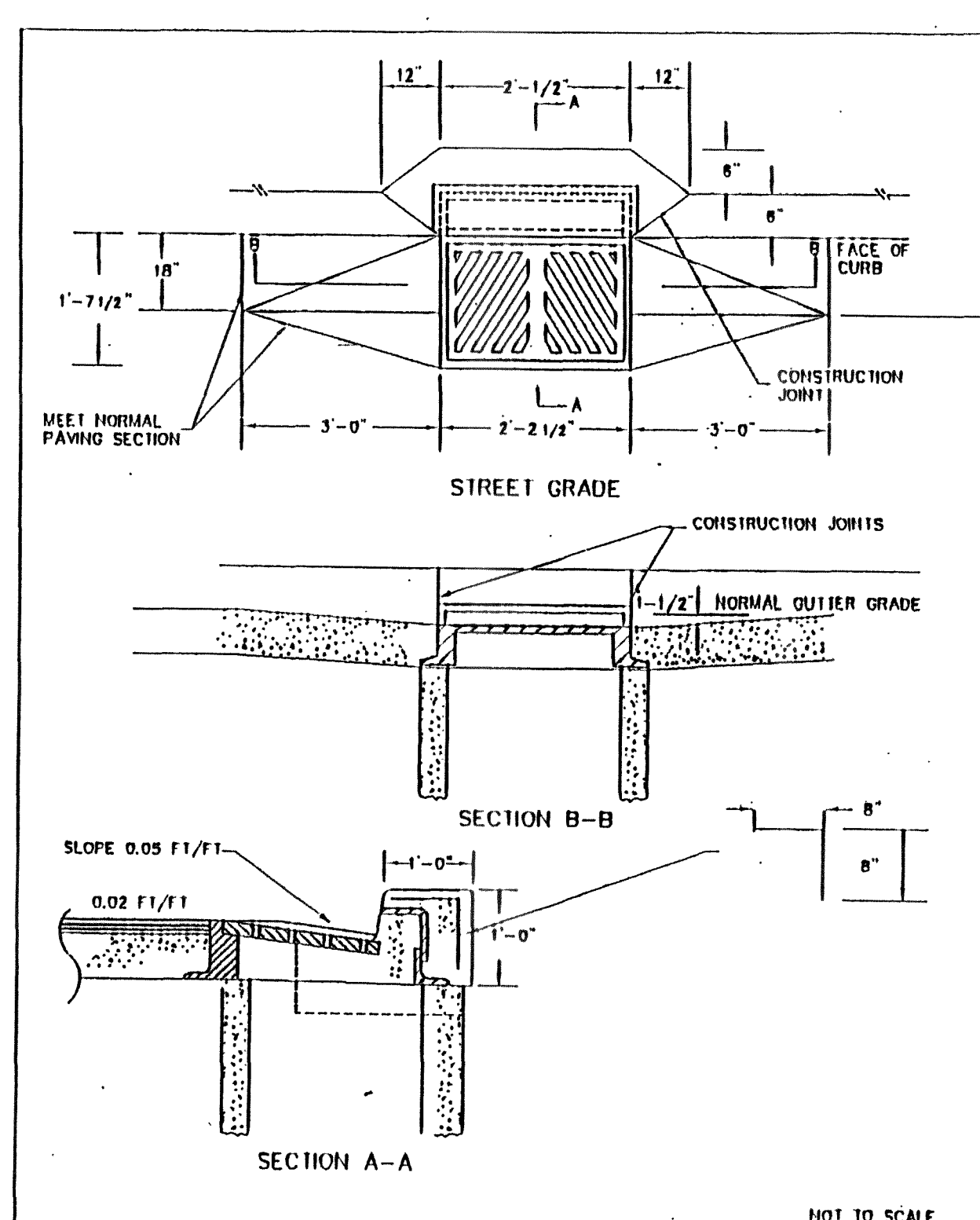
DRAWING: R-4



APPROVED: *John T. Jepson*
Public Works Director Date

CITY OF FERDALE
MINIMUM STANDARD DRIVEWAY SECTIONS

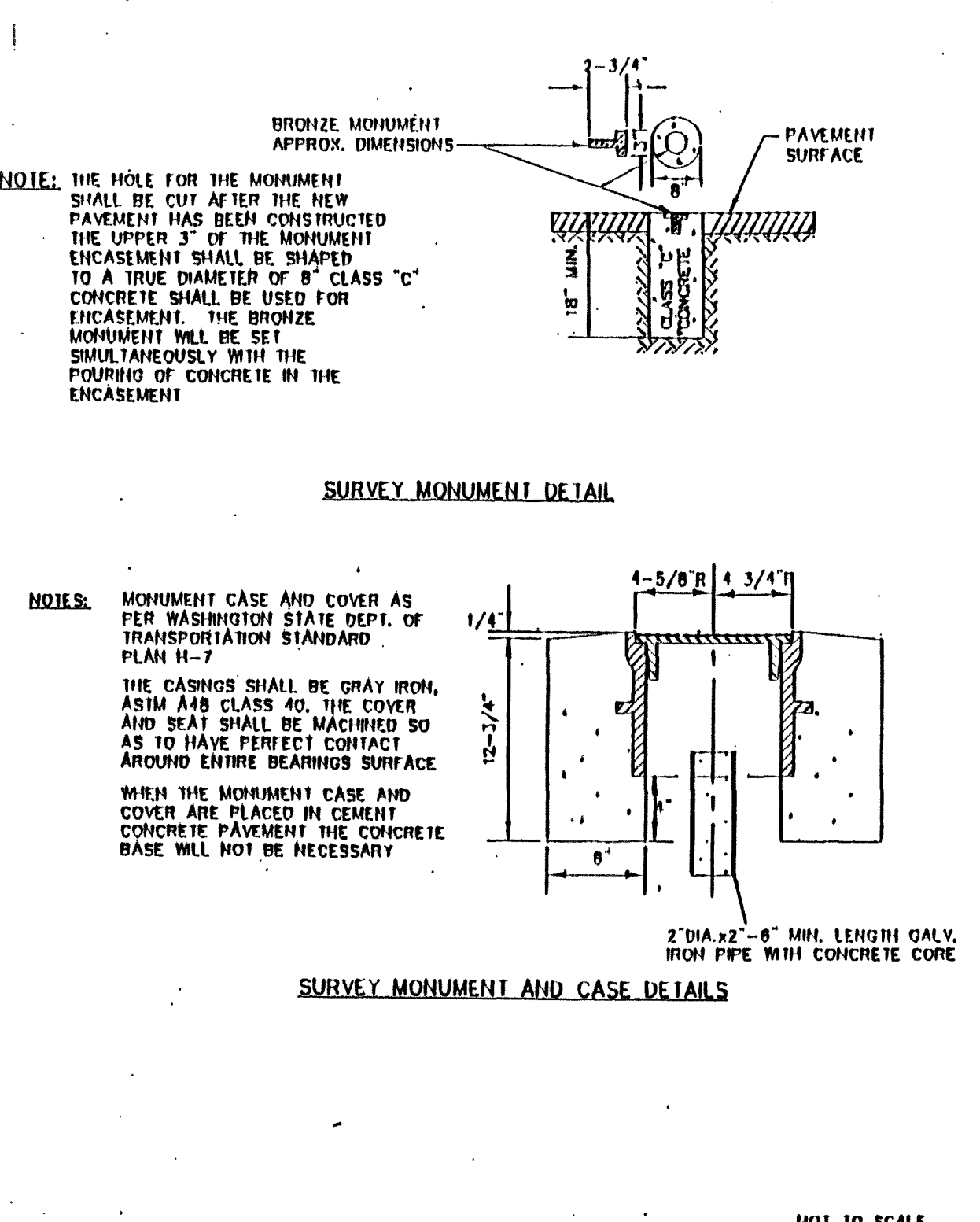
DRAWING: F-6



APPROVED: *John T. Jepson*
Public Works Director Date

CITY OF FERDALE
THRU-CURB INLET FRAME & GRATE WITH VERTICAL CURB INSTALLATION

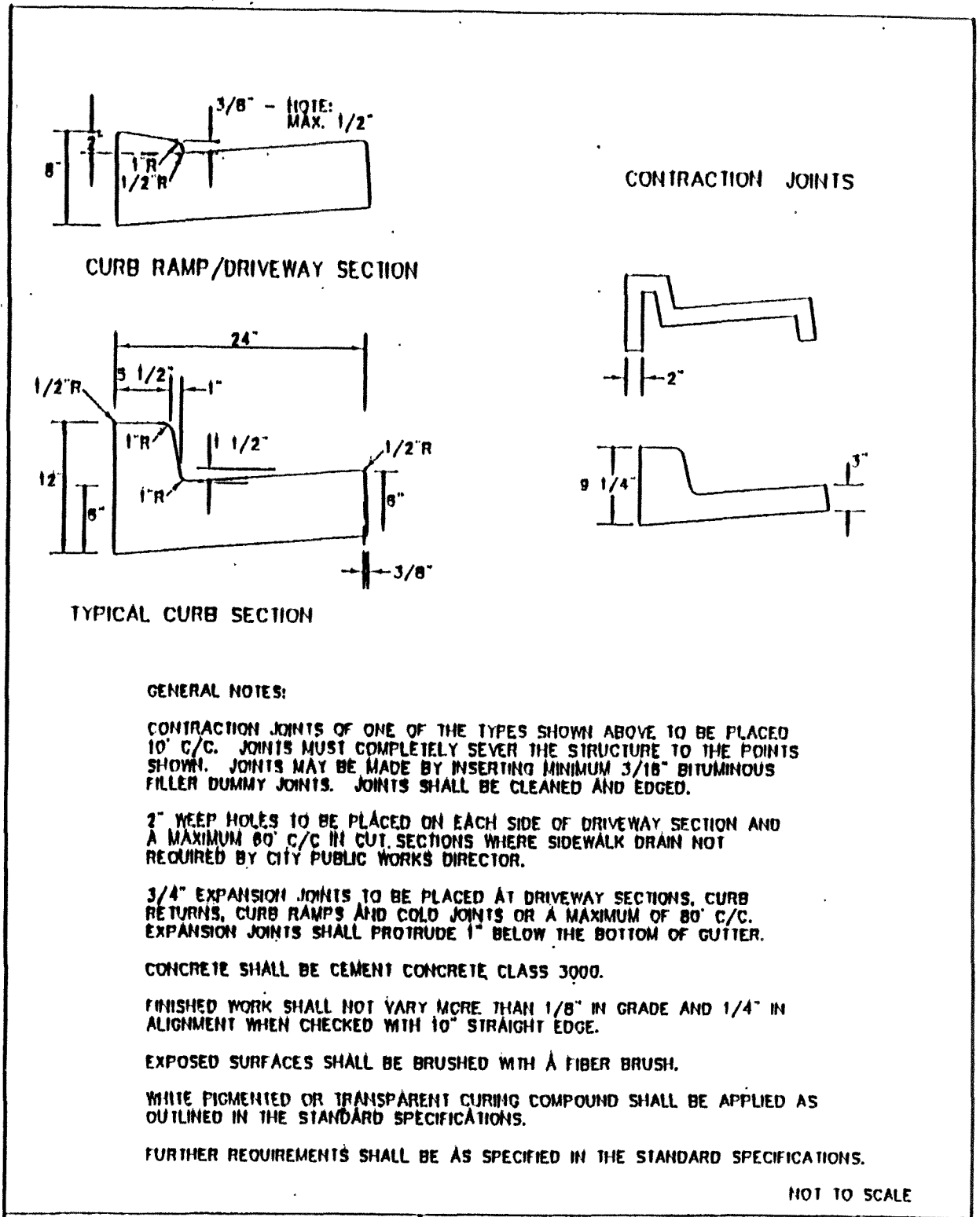
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APPROVED: *John T. Jepson*
Public Works Director Date

CITY OF FERDALE
SURVEY MONUMENTS FOR ON-ROAD USE

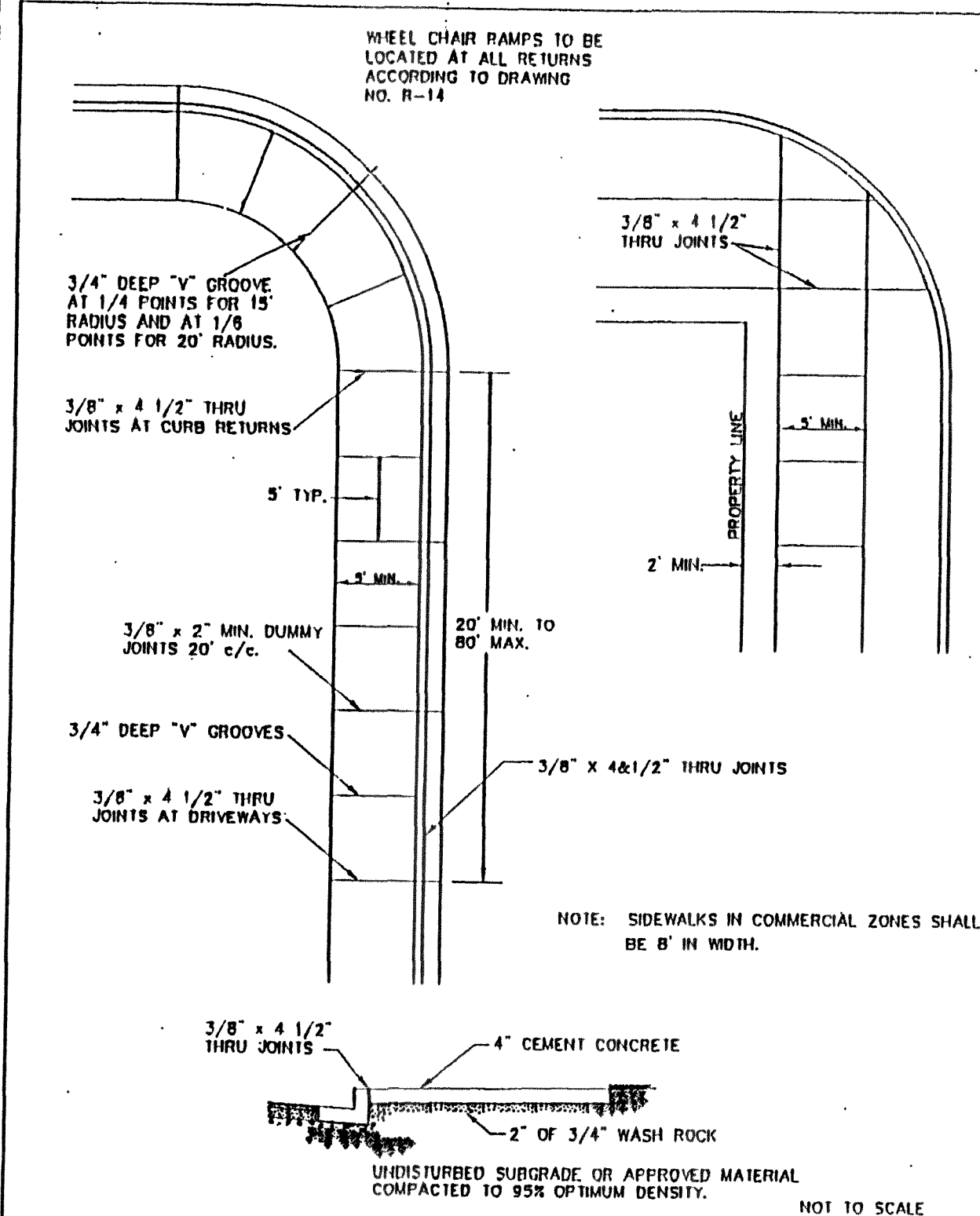
DRAWING: S-2



APPROVED: *John T. Jepson*
Public Works Director Date

CITY OF FERDALE
CURB AND GUTTER

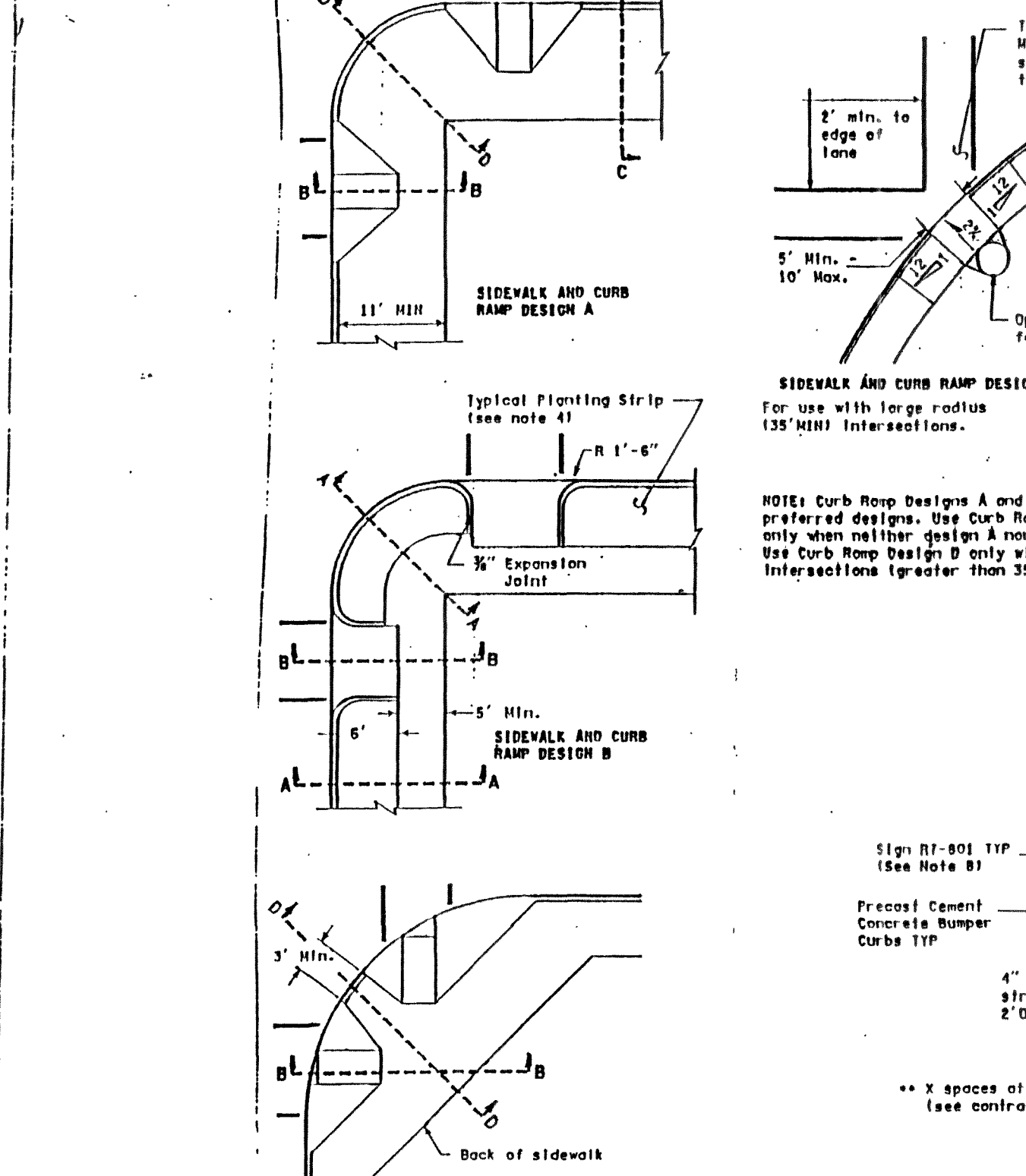
DRAWING: R-9



APPROVED: *John T. Jepson*
Public Works Director Date

CITY OF FERDALE
TYPICAL SIDEWALK PLAN AND CROSS SECTION

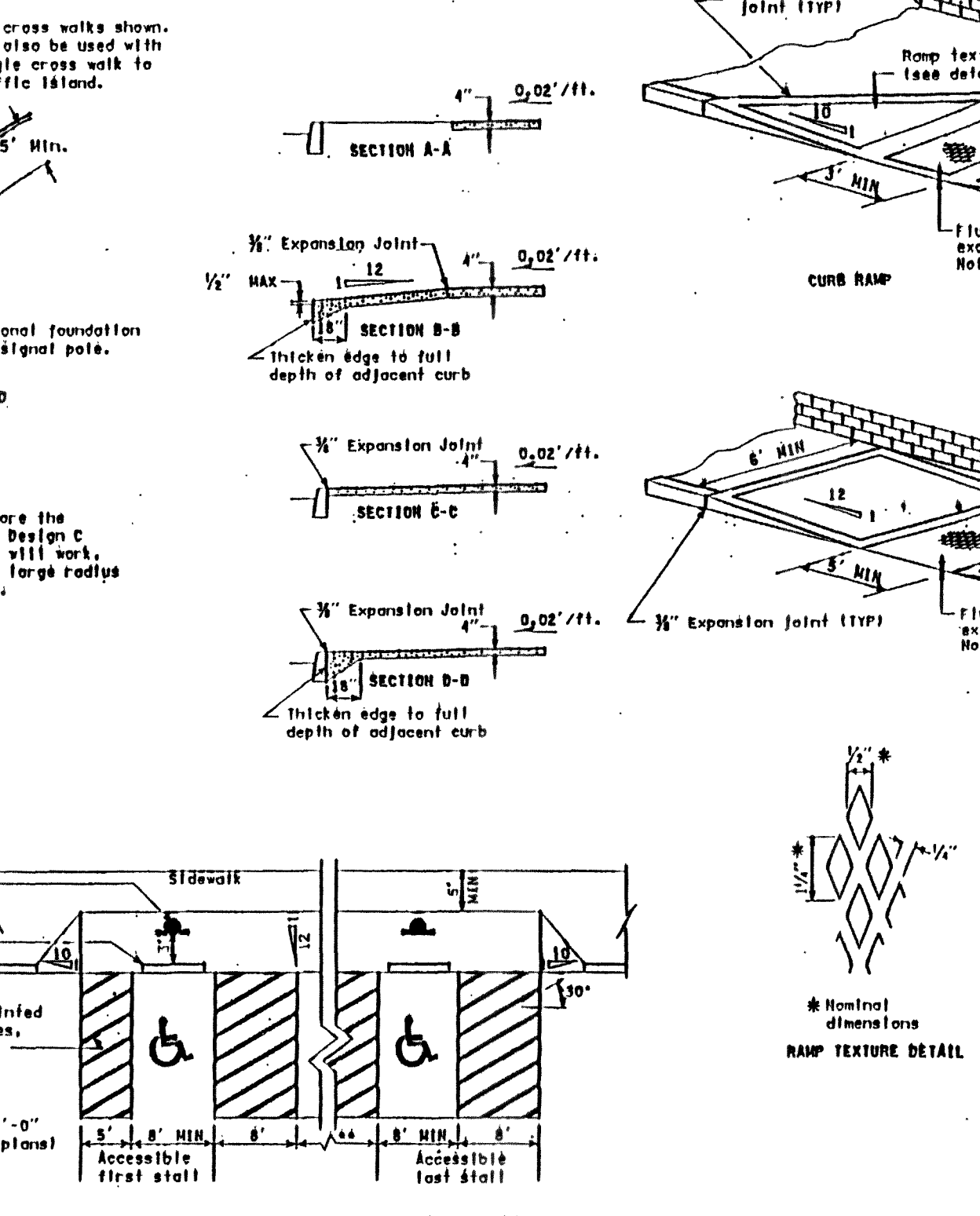
DRAWING: R-12



APPROVED: *John T. Jepson*
Public Works Director Date

CITY OF FERDALE
TYPICAL SIDEWALK PLAN AND CROSS SECTION

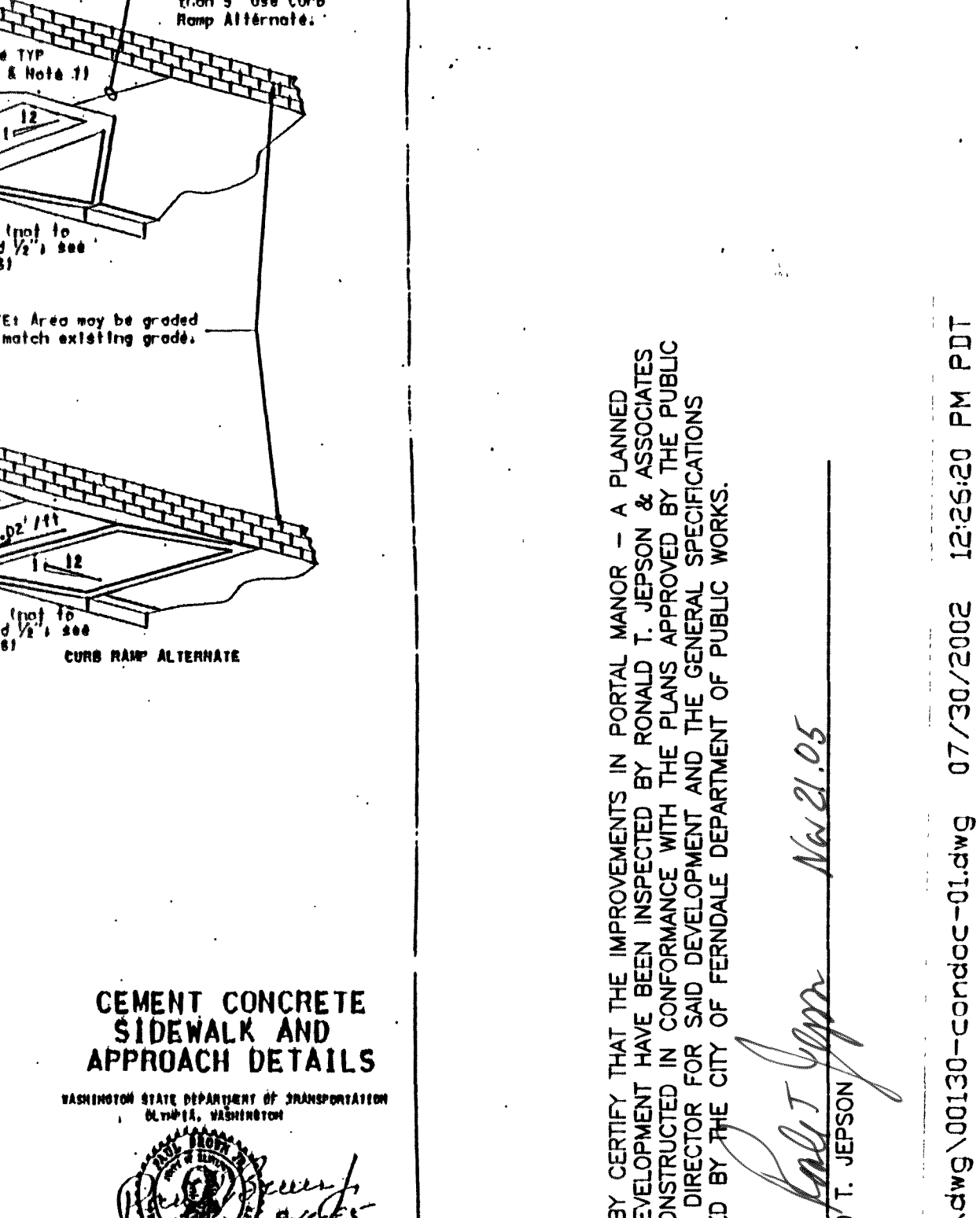
DRAWING: R-12



APPROVED: *John T. Jepson*
Public Works Director Date

CITY OF FERDALE
TYPICAL SIDEWALK PLAN AND CROSS SECTION

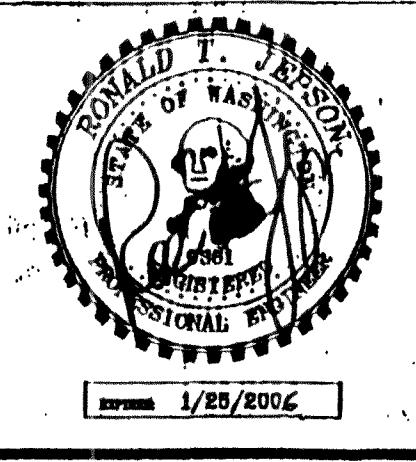
DRAWING: R-12

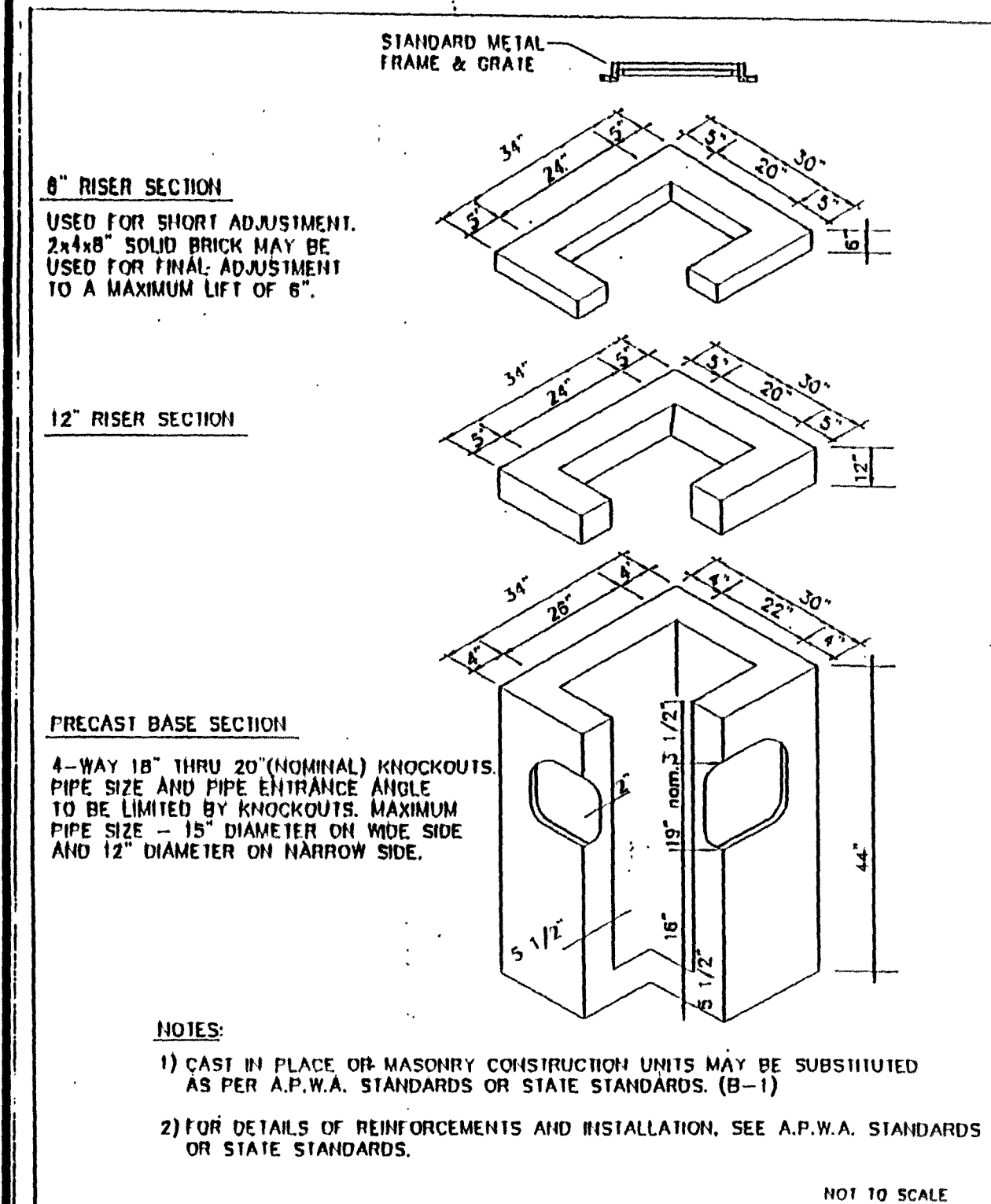


APPROVED: *John T. Jepson*
Public Works Director Date

CITY OF FERDALE
TYPICAL SIDEWALK PLAN AND CROSS SECTION

DRAWING: R-12

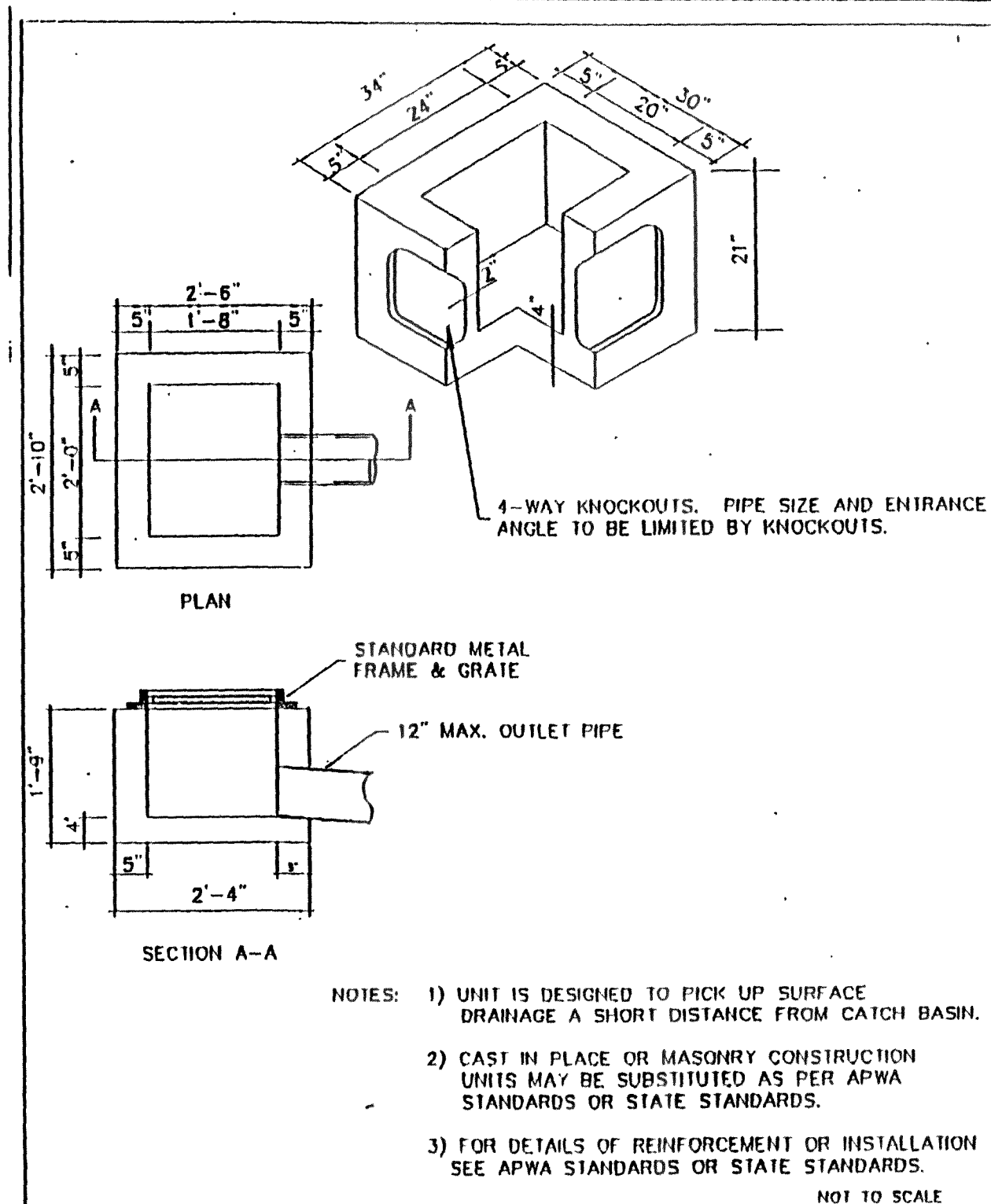




APPROVED *John & Ely*
Public Works Director Date

CITY OF FERDALE
CATCH BASIN TYPE I

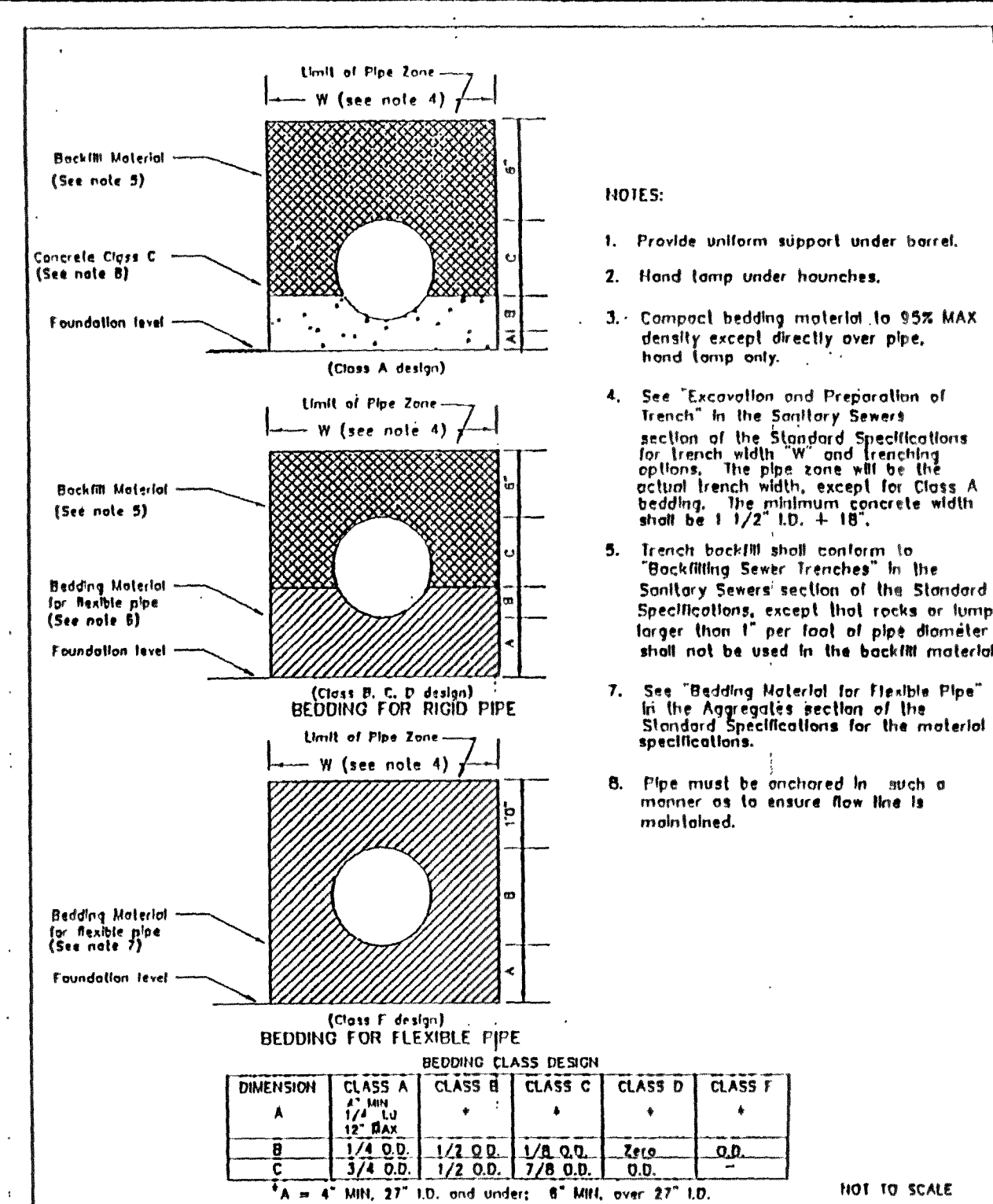
DRAWING
ST-1



APPROVED *John & Ely*
Public Works Director Date

CITY OF FERDALE
INLET DETAIL

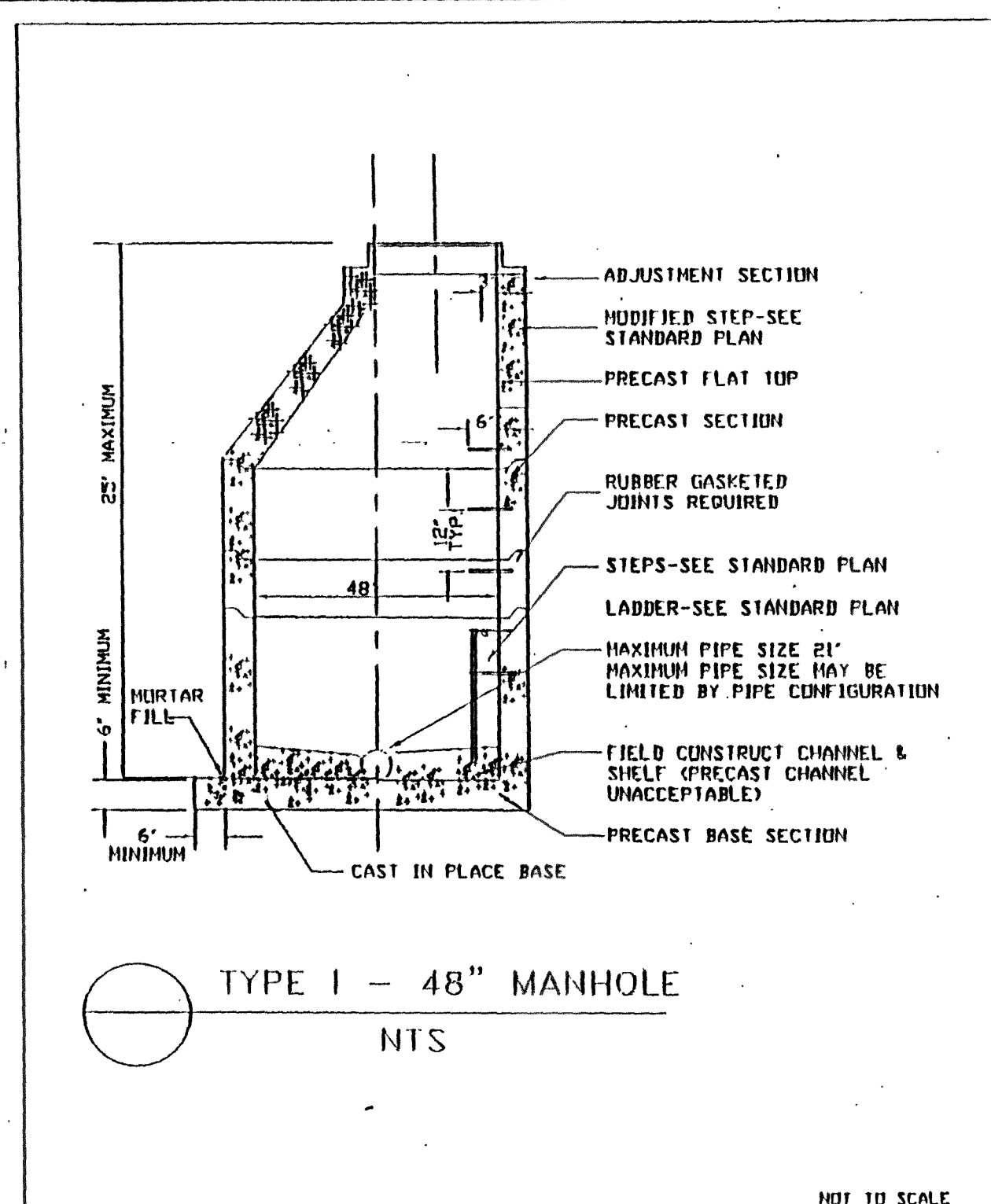
DRAWING
ST-7



APPROVED *John & Ely*
Public Works Director Date

CITY OF FERDALE
PIPE BEDDING FOR SANITARY SEWERS

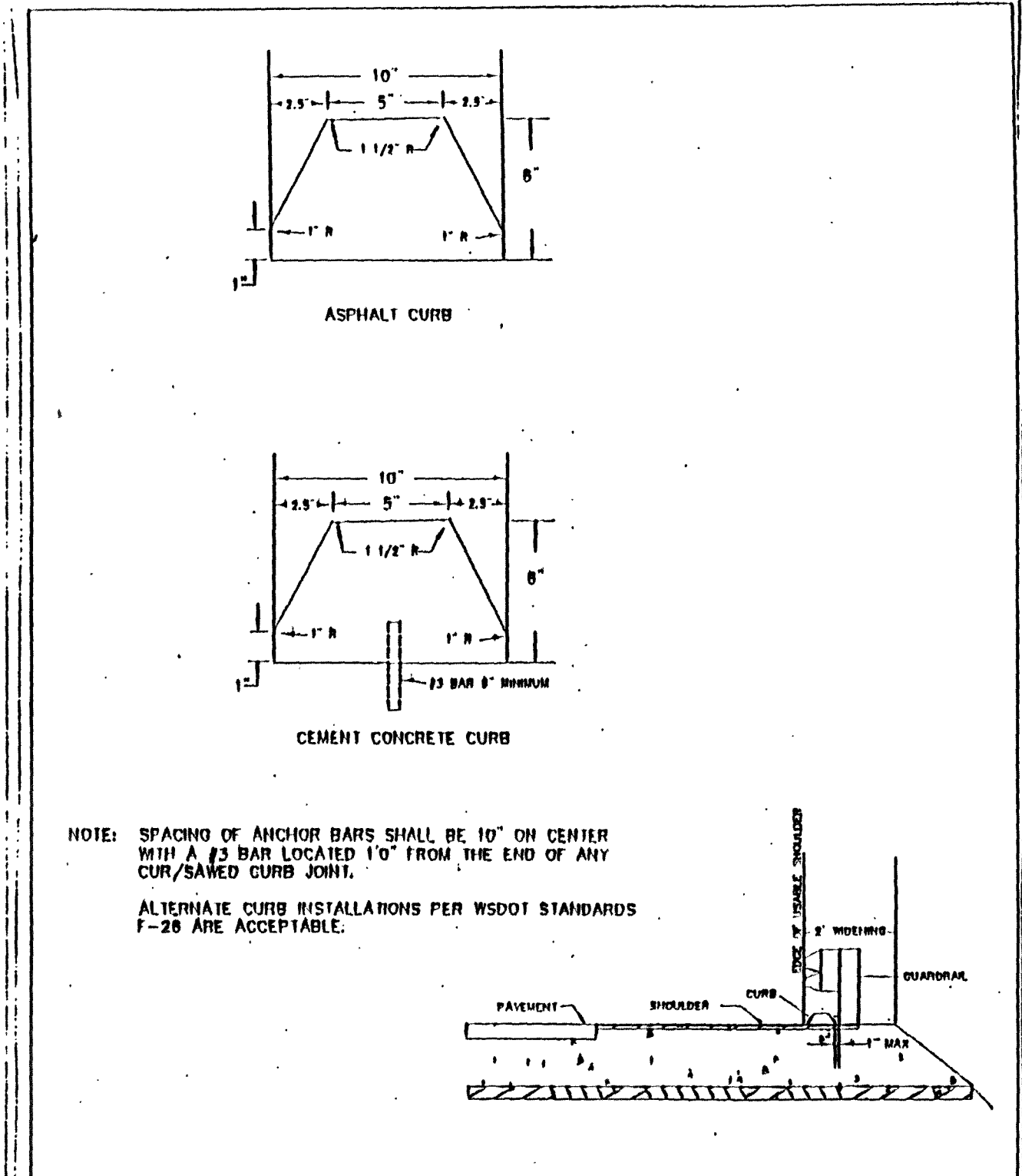
DRAWING
SS-1



APPROVED *John & Ely*
Public Works Director Date

CITY OF FERDALE
TYPE 1 48" MANHOLE

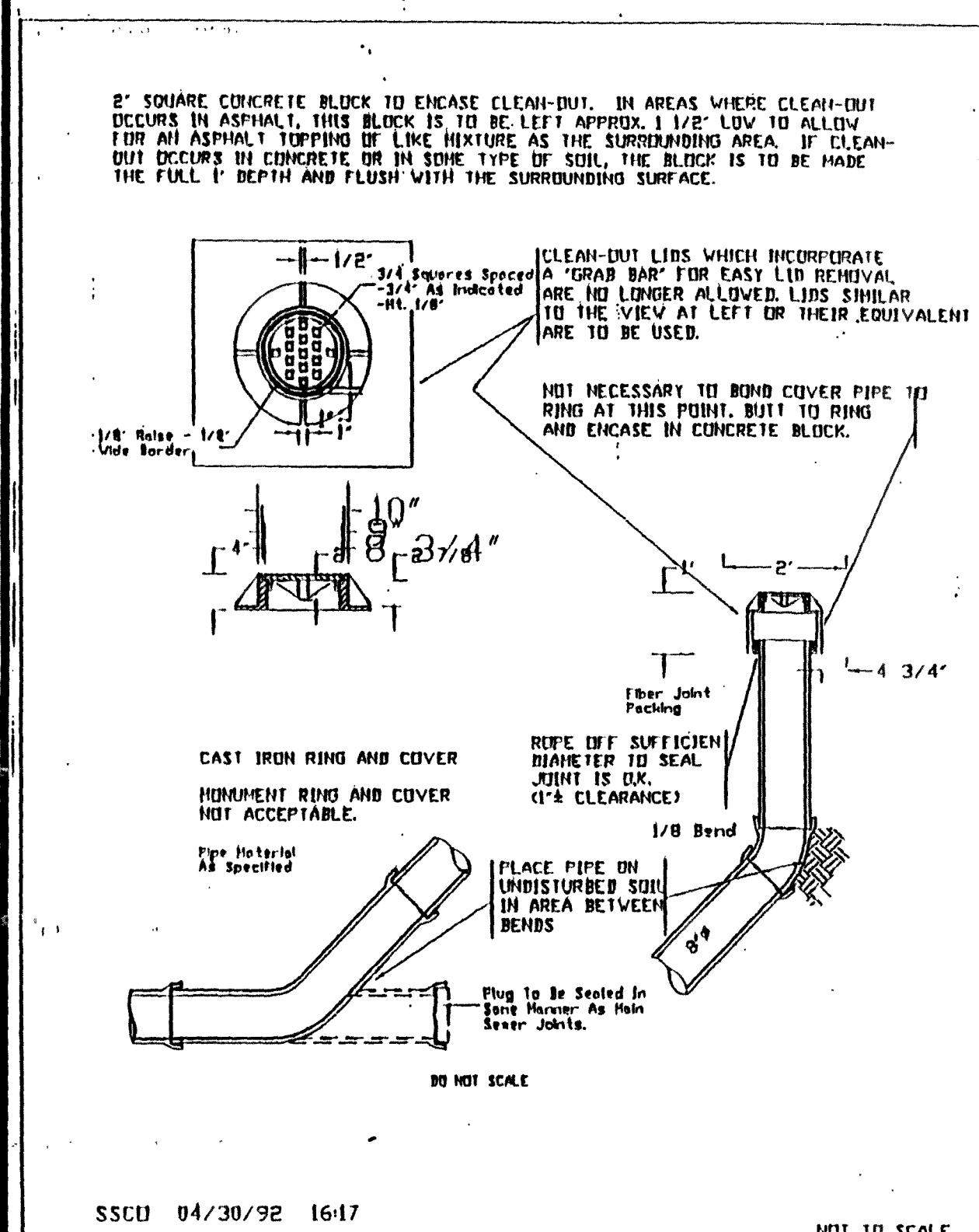
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SS-2



APPROVED *John & Ely*
Public Works Director Date

CITY OF FERDALE
EXTRUDED CURB

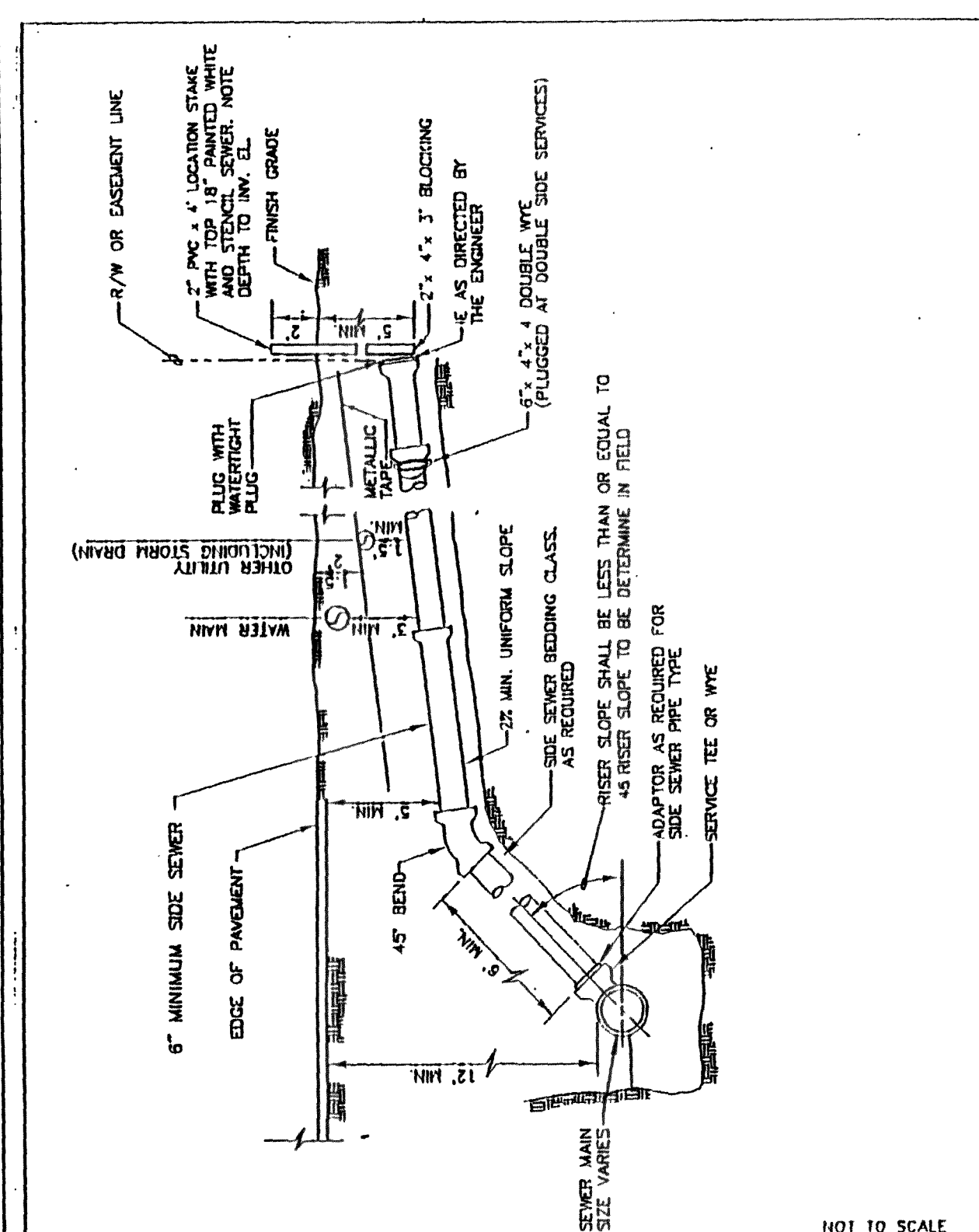
DRAWING
R-10



APPROVED *John & Ely*
Public Works Director Date

CITY OF FERDALE
8" CLEAN OUT

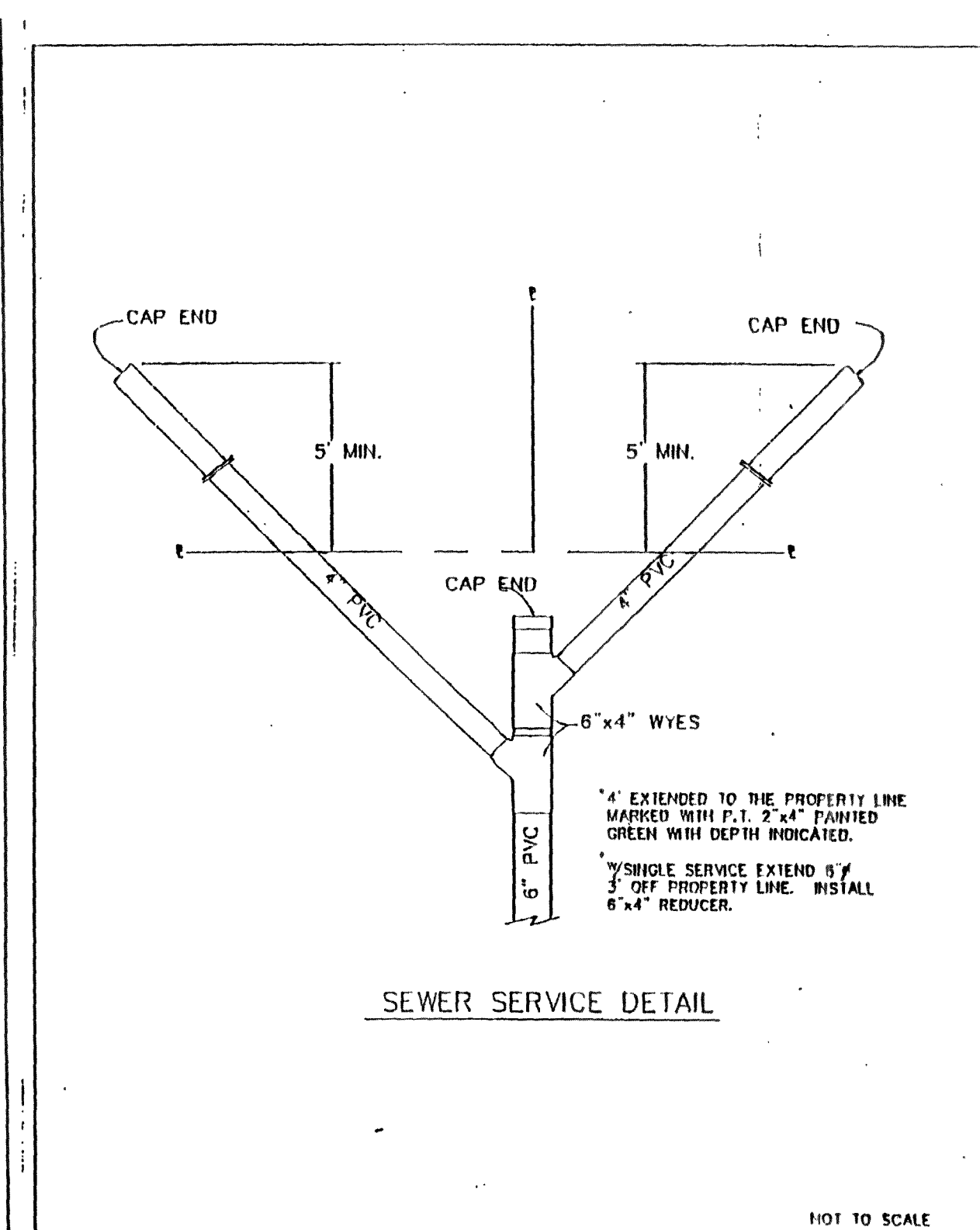
DRAWING
SS-5



APPROVED *John & Ely*
Public Works Director Date

CITY OF FERDALE
SANITARY SEWER SIDE SERVICE INSTALLATION DEEP MAINS

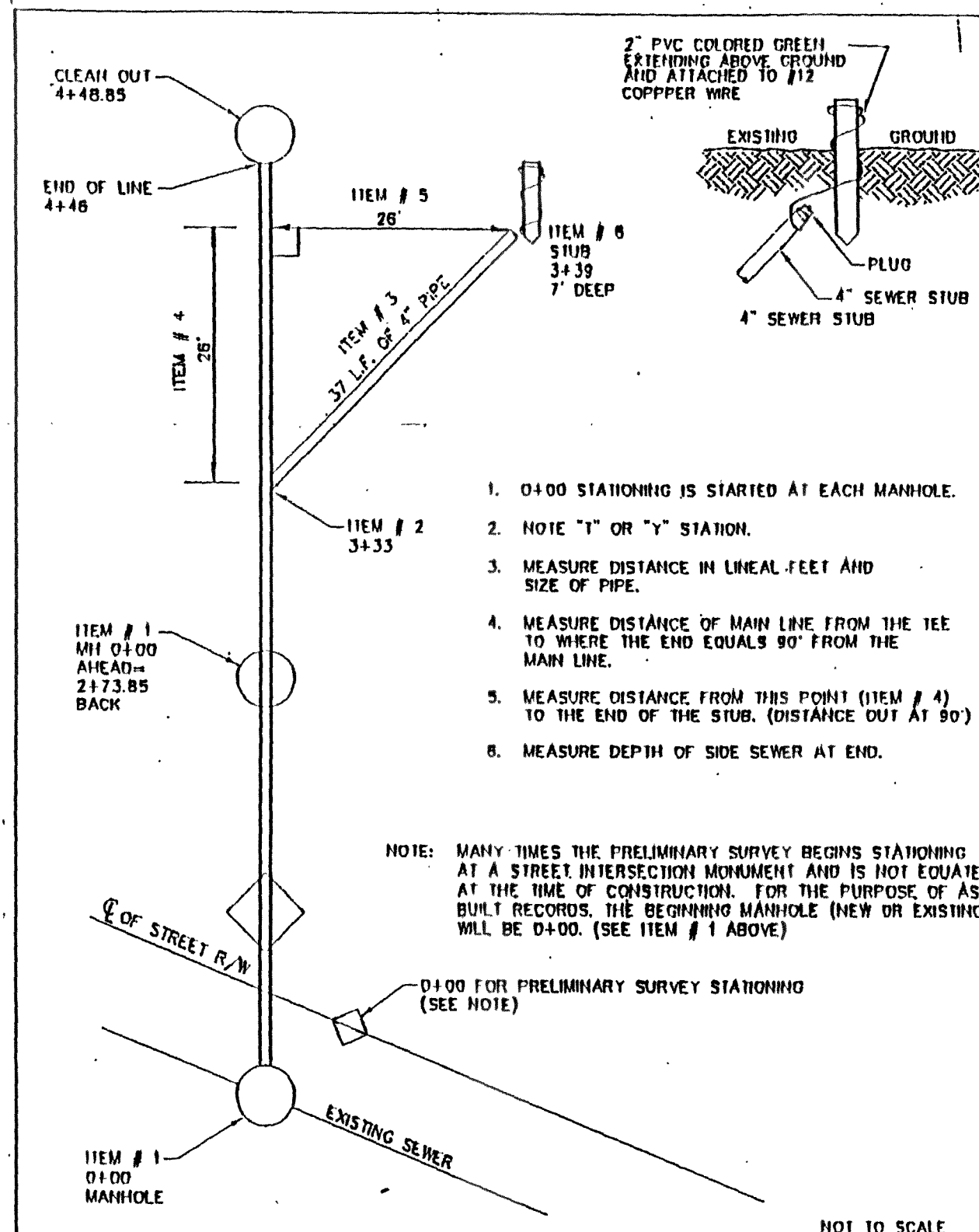
DRAWING
SS-8



APPROVED *John & Ely*
Public Works Director Date

CITY OF FERDALE
DOUBLE SANITARY SEWER SERVICE

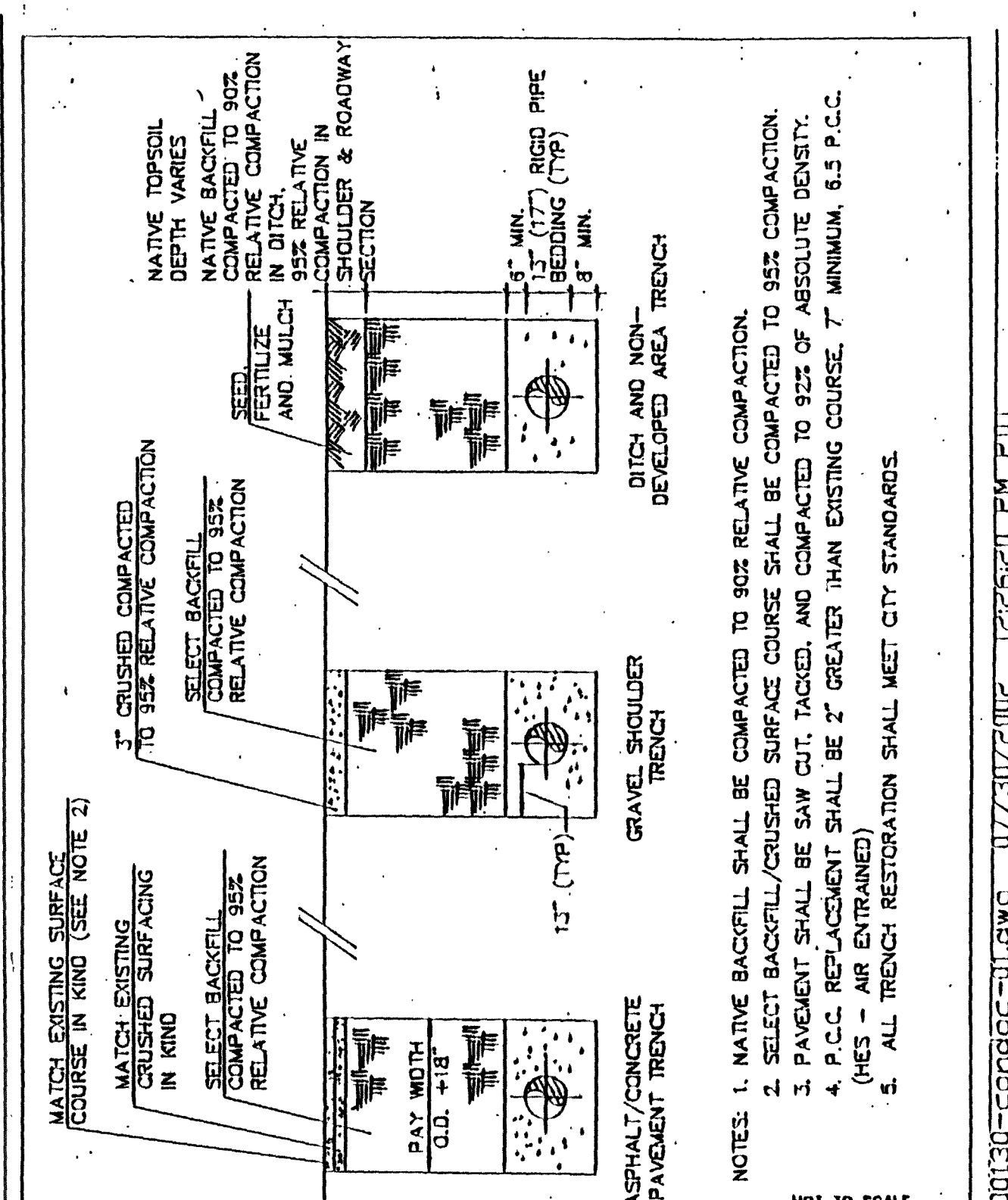
DRAWING
SS-13



APPROVED *John & Ely*
Public Works Director Date

CITY OF FERDALE
SANITARY SEWER TYPICAL SIDE SERVICE

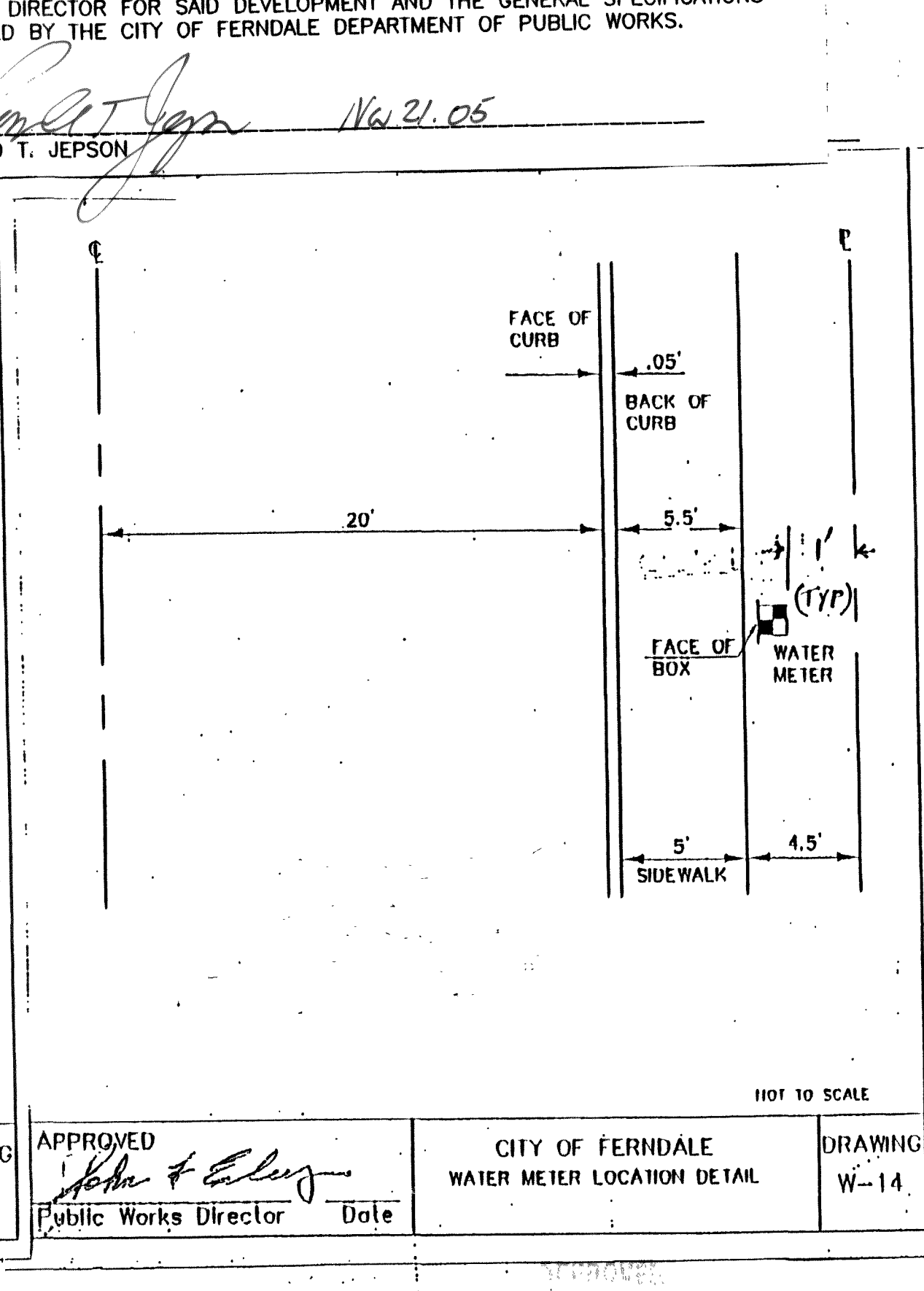
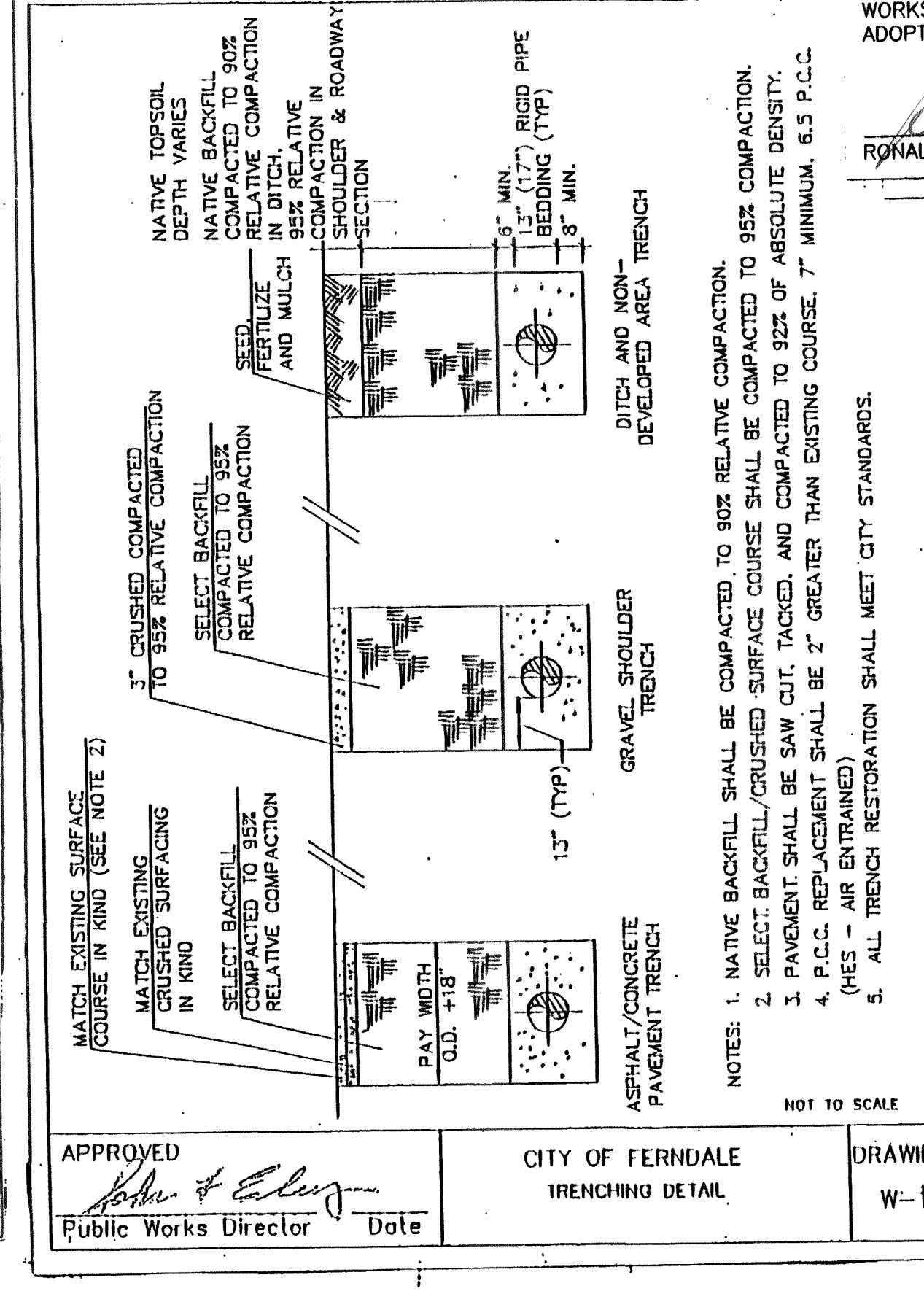
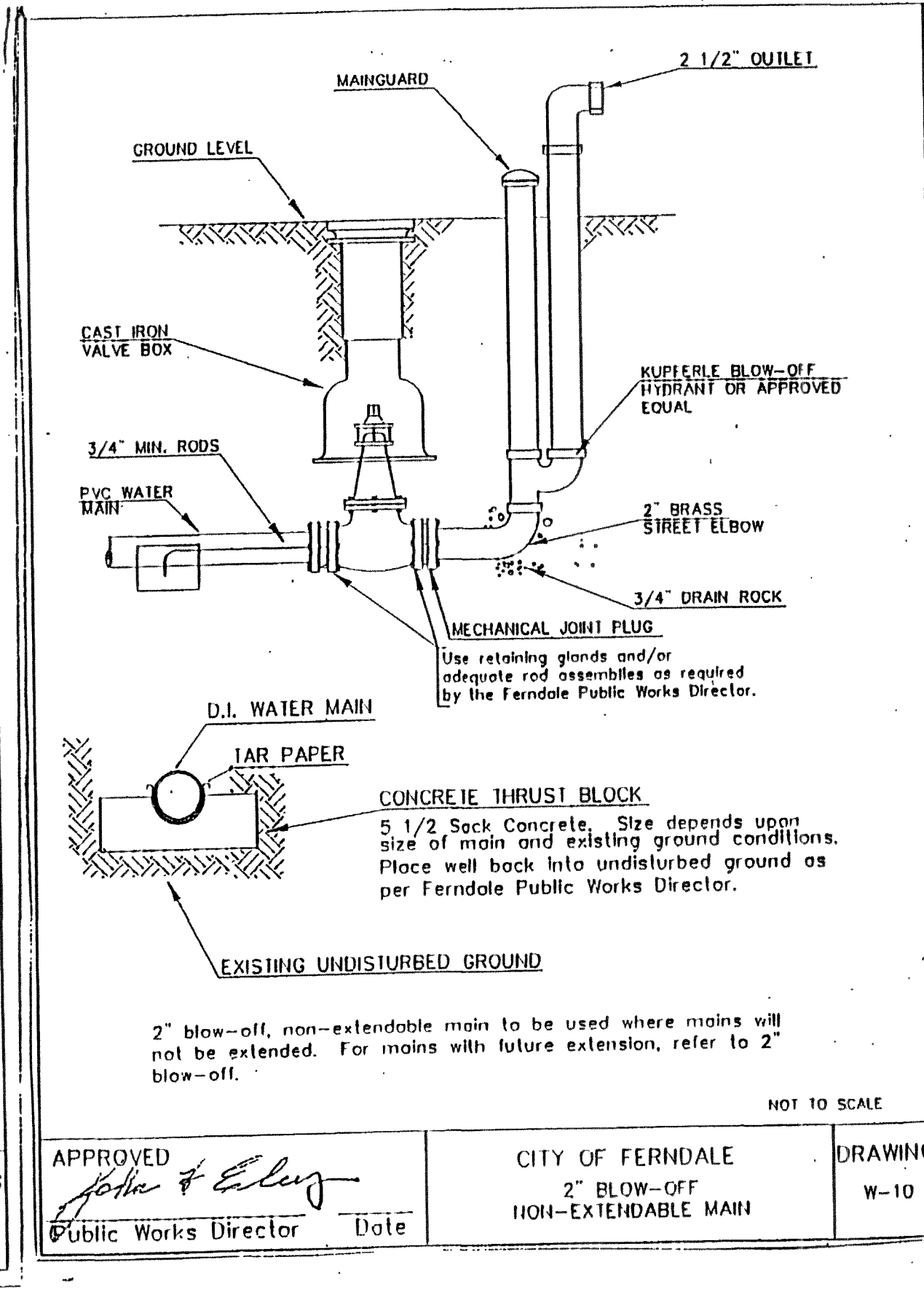
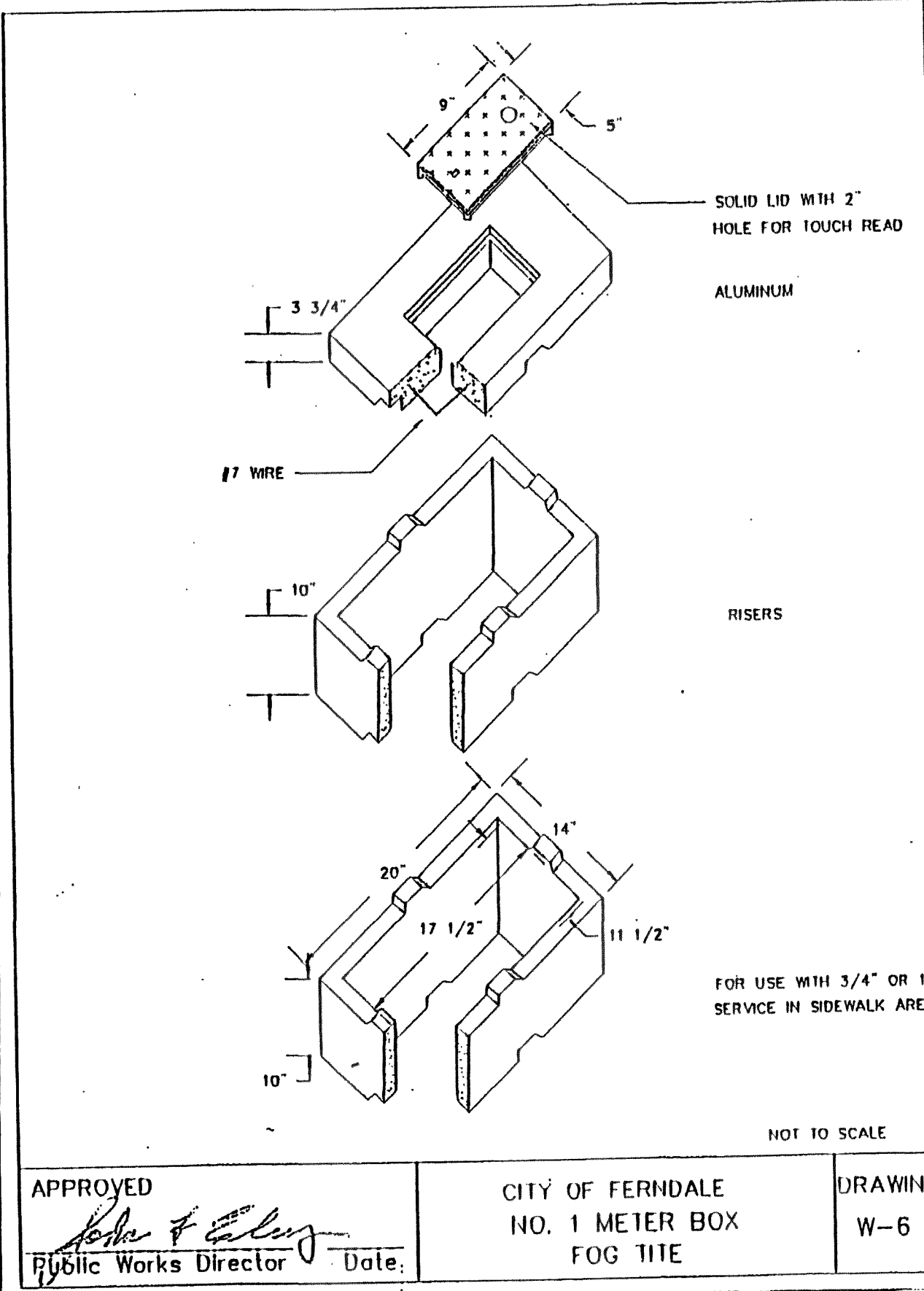
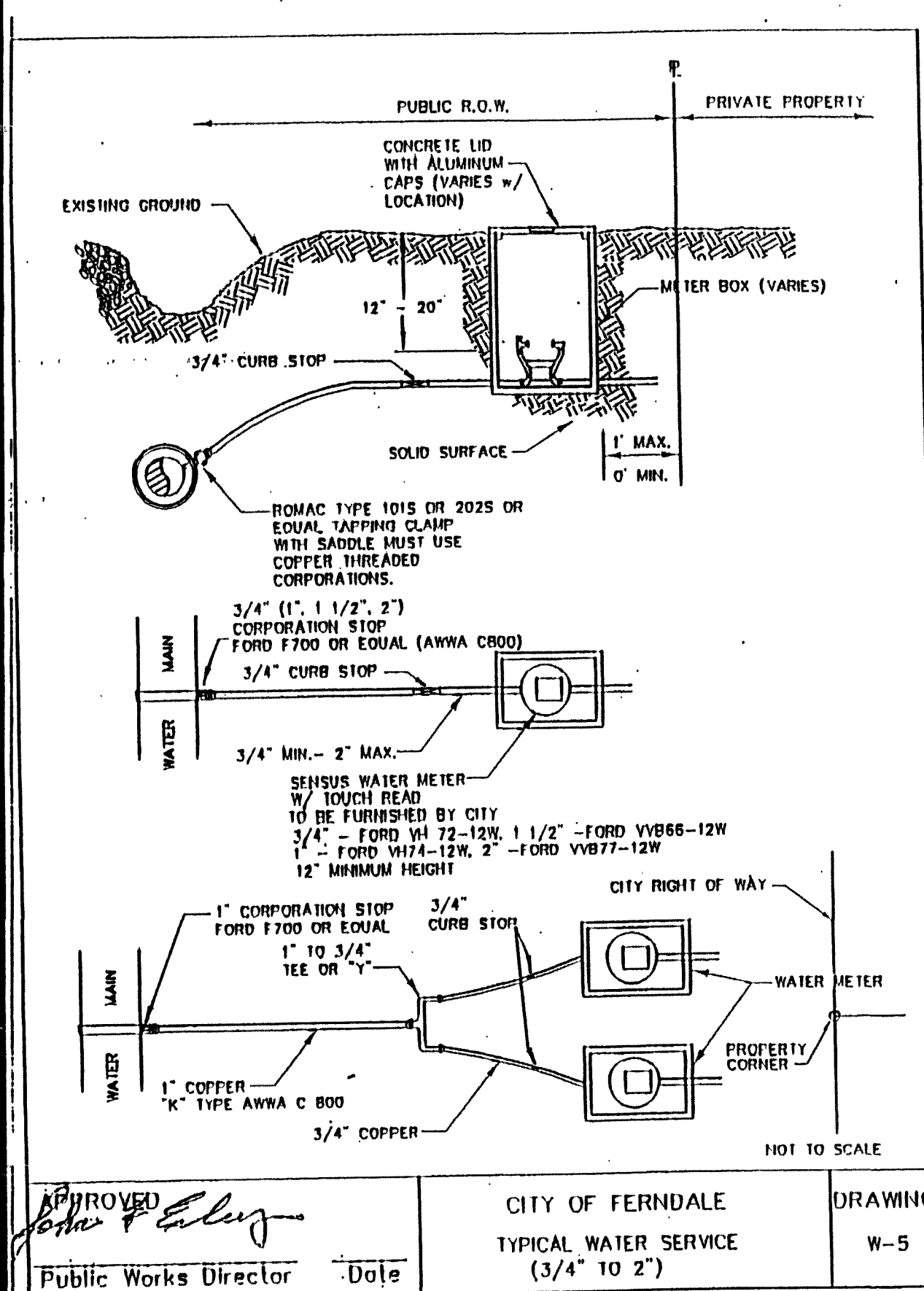
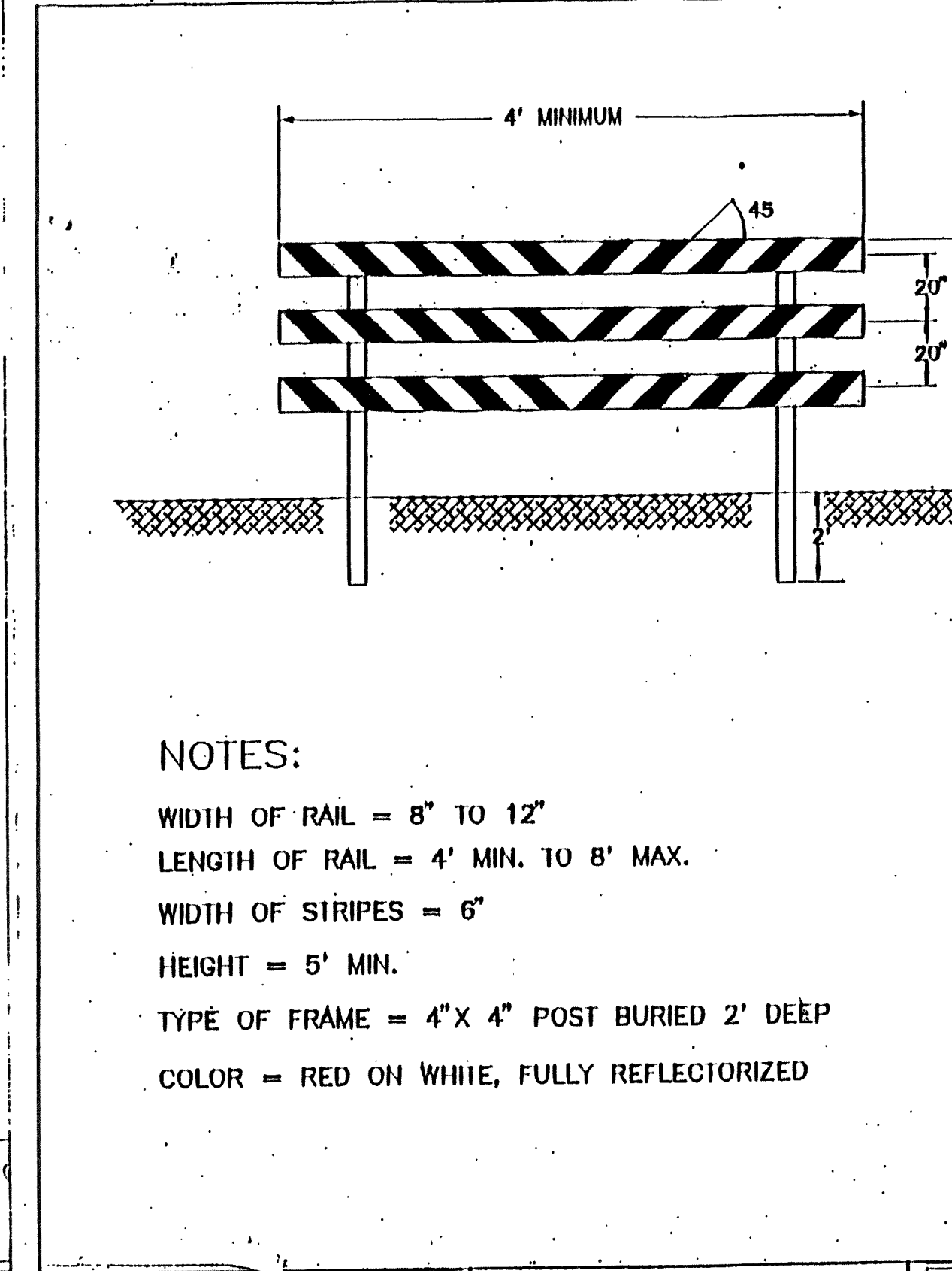
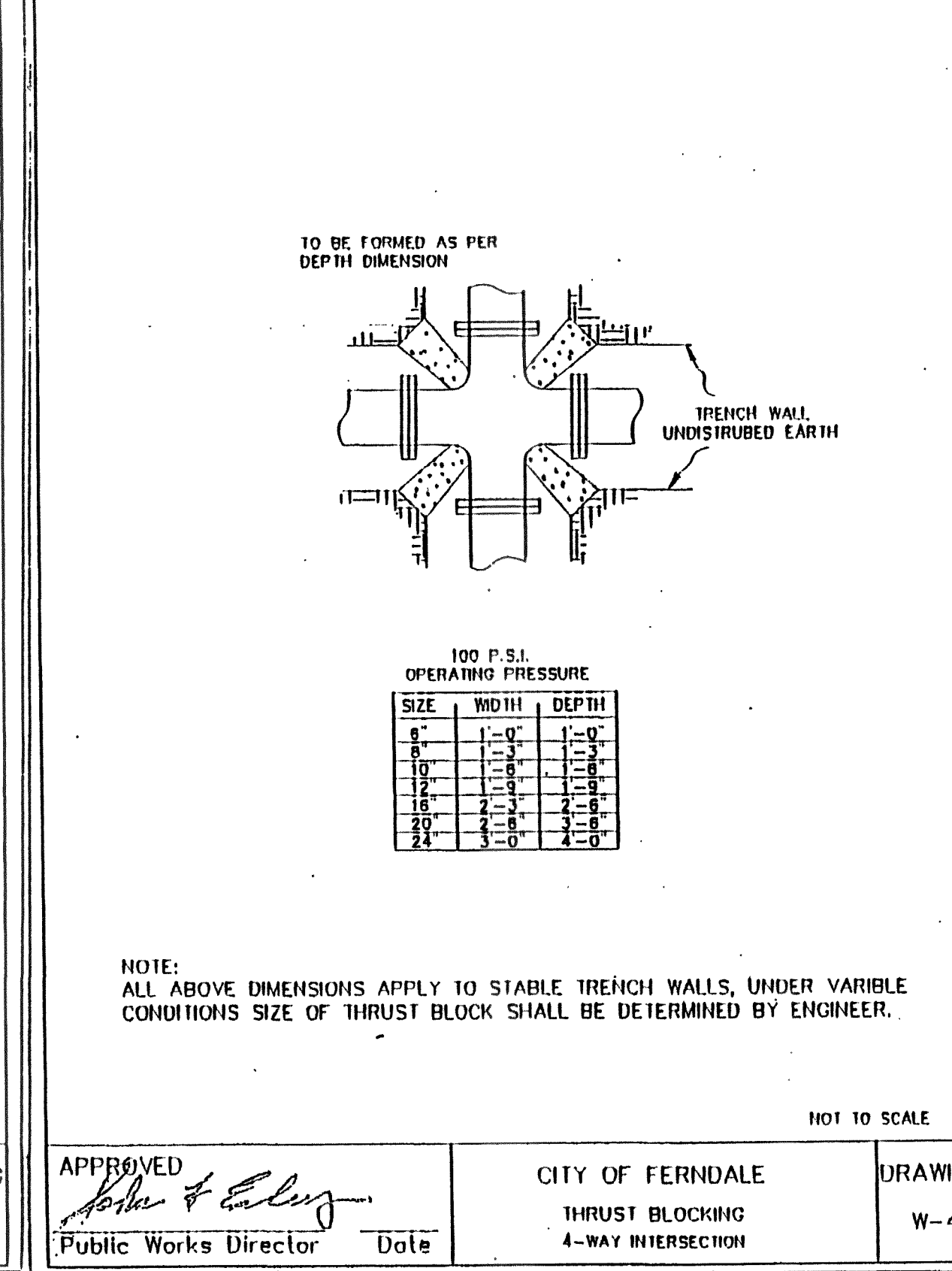
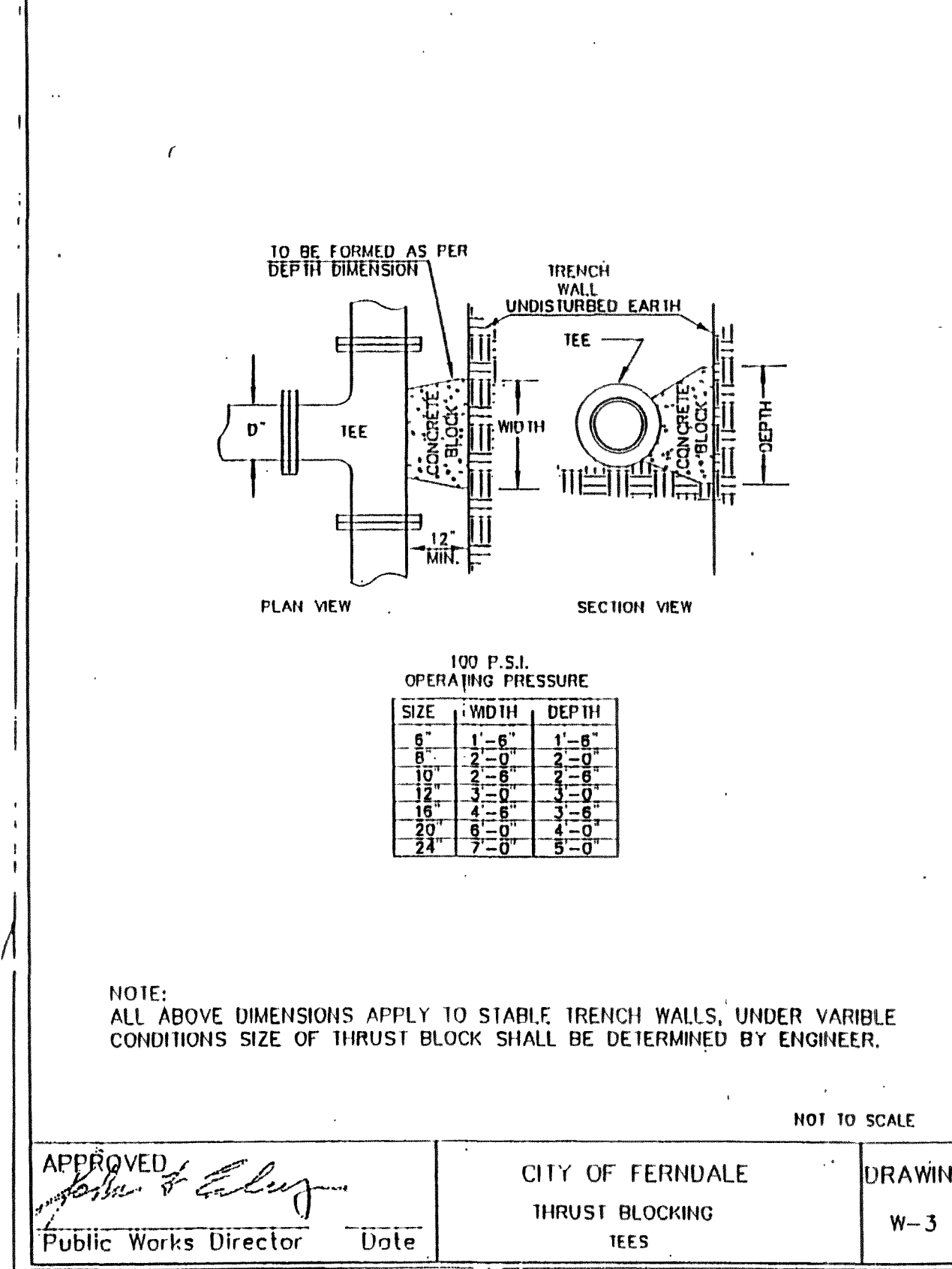
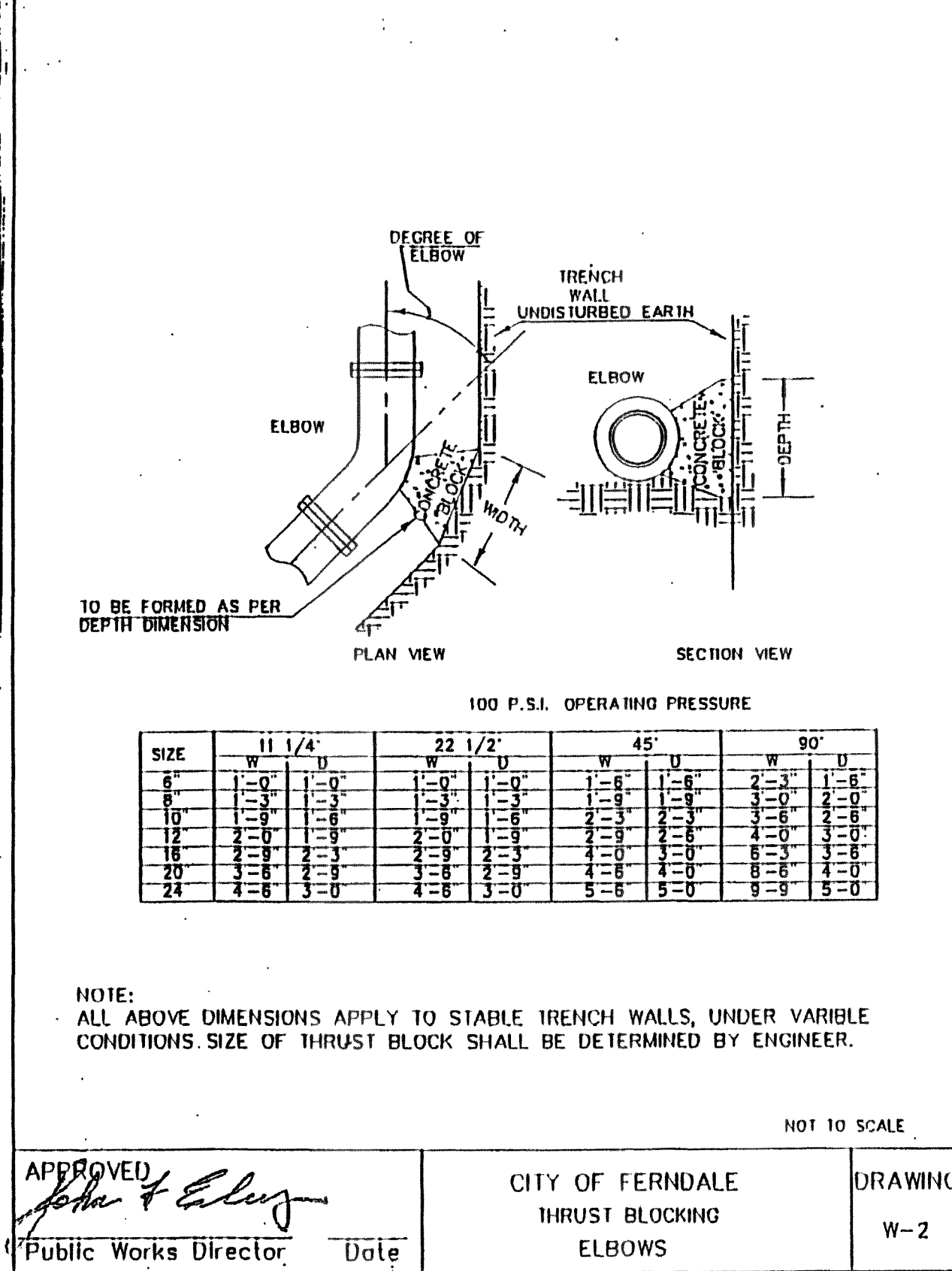
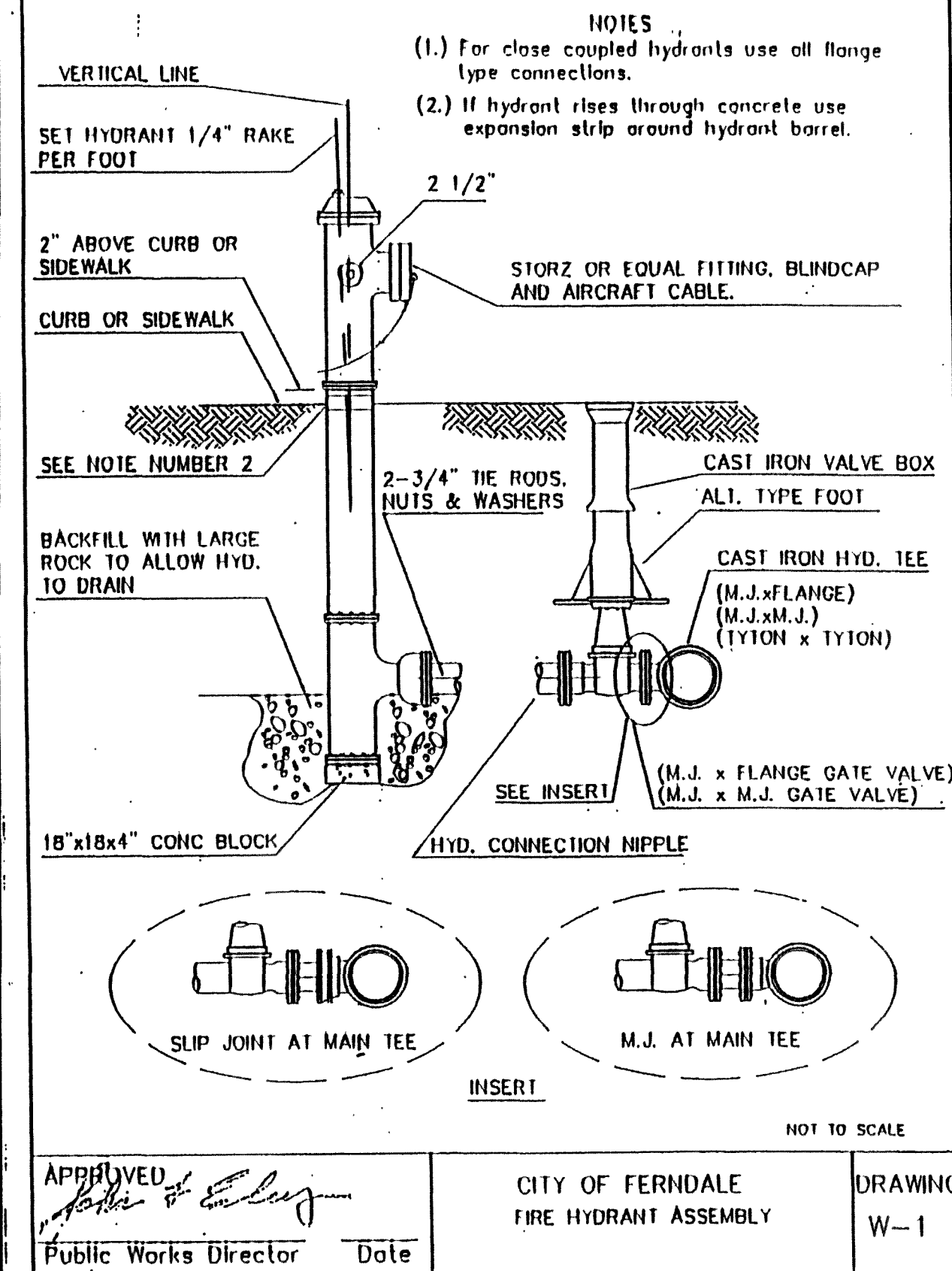
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SS-14

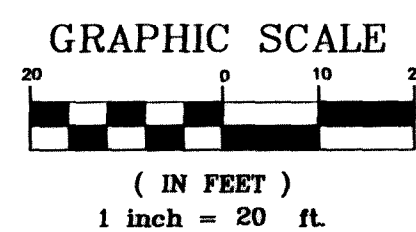
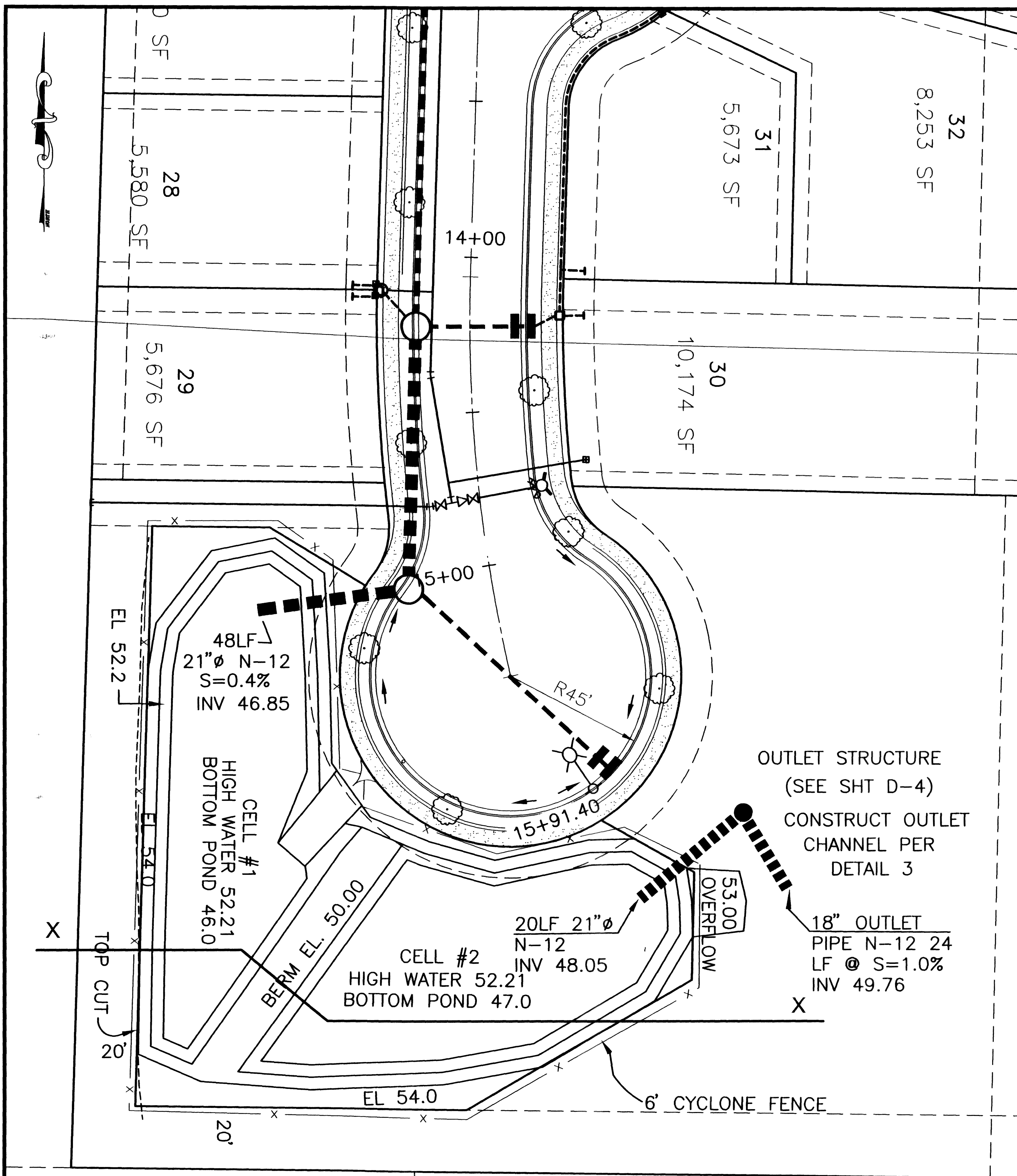


APPROVED *John & Ely*
Public Works Director Date

CITY OF FERDALE
TRENCHING DETAIL

DRAWING
SS-15





STANDARD POND, BIO-SWALE SEED MIX

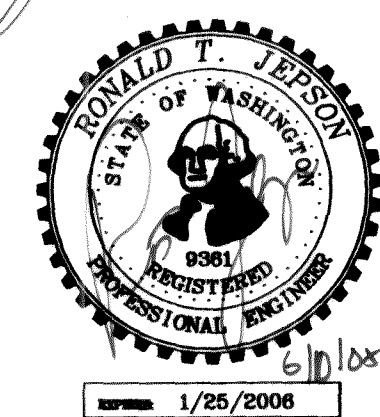
40%	DWARF TALL FESCUE
30%	BARCLAY PERENNIAL RYEGRASS
25%	CREEPING RED FESCUE
5%	HIGHLAND COLONIAL BENTGRASS
COVERAGE: 2.5 TO 5 LBS. PER 1000 SQ. FT.	

RONALD T. JEPSON & ASSOC.
 REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS
 222 GRAND, BELLINGHAM, WASHINGTON 98225 PH.(360)733-5760 FAX (360)647-8939

SCALE	AS SHOWN
DRAWN BY	RJR
CHECKED BY	T.A.J.
APPROVED BY	R.T.J.
DATE	10/4/2005

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN PORTAL MANOR - A PLANNED UNIT DEVELOPMENT HAVE BEEN INSPECTED BY RONALD T. JEPSON & ASSOCIATES AND CONSTRUCTED IN CONFORMANCE WITH THE PLANS APPROVED BY THE PUBLIC WORKS DIRECTOR FOR SAID DEVELOPMENT AND THE GENERAL SPECIFICATIONS ADOPTED BY THE CITY OF FERDALE DEPARTMENT OF PUBLIC WORKS.

RONALD T. JEPSON



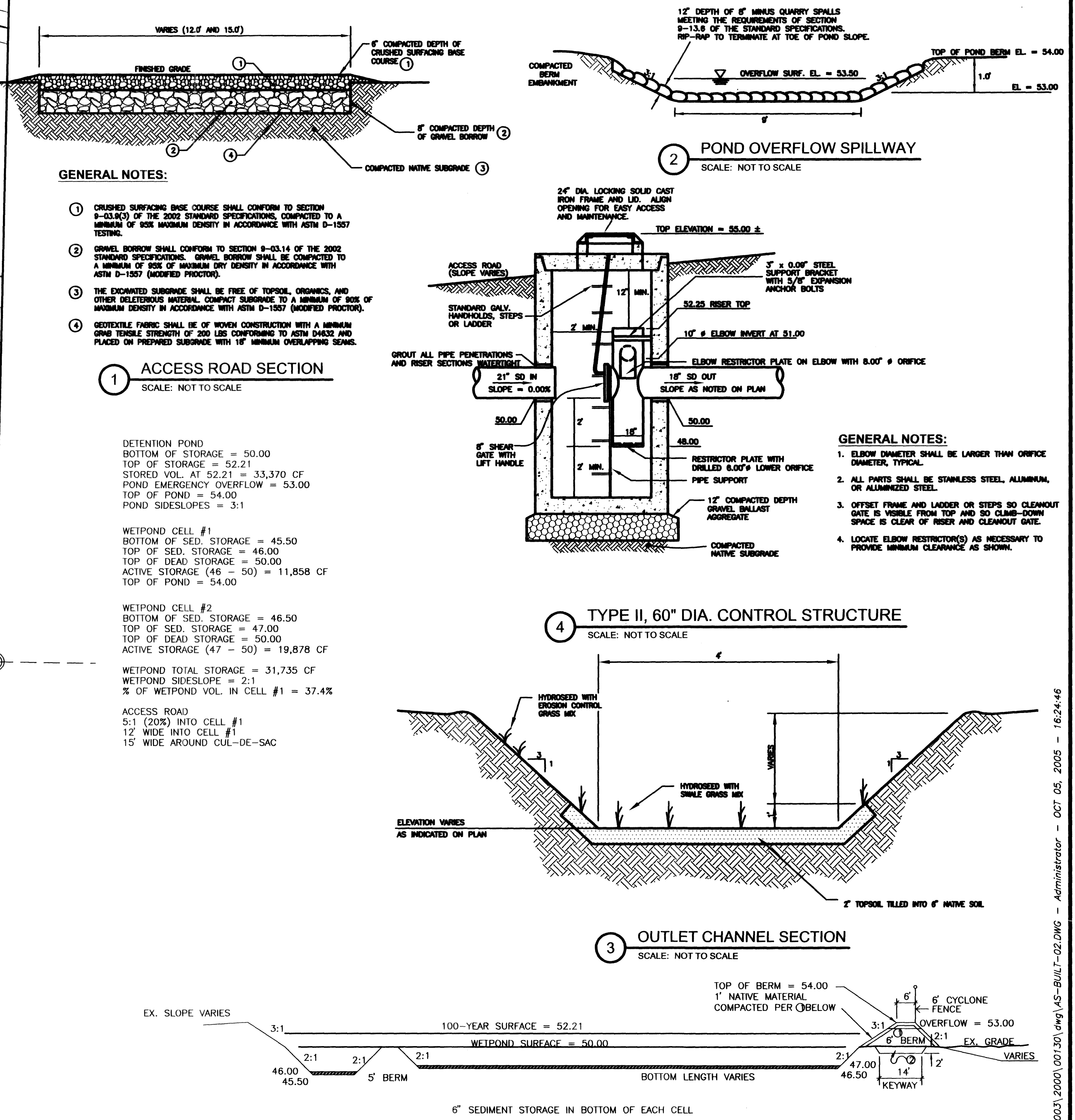
AS BUILT

PORTAL MANOR
 DETENTION POND & WATER QUALITY FACILITY

CLIENT:
 WHATCOM SELF HELP HOMES

00130

D4



POND SECTION X-X NOT TO SCALE

- BERM EMBANKMENT (AND KEYWAY WHERE NECESSARY) MATERIAL SHALL CONTAIN:
 MIN. 30% CLAY
 MAX. 60% SAND
 MAX. 60% SILT
 NOMINAL GRAVEL AND/OR COBBLE CONTENT
 MATERIALS SHALL BE PLACED IN 6" LOOSE LIFTS AND COMPACTED TO A MIN. OF 95% OF MAX. DRY DENSITY PER ASTM D-1557 (MODIFIED PROCEDURE). EXISTING BASE SOIL BELOW BERM OR KEYWAY AREAS SHALL BE COMPACTED TO A MIN. OF 95% OF MAX. DRY DENSITY PER ASTM D-1557 (MODIFIED PROCEDURE).
- KEYWAY SHALL BE INSTALLED UNDER ALL BERM AREAS EXTENDING MORE THAN FOUR FEET ABOVE EXISTING GROUND. KEYWAY SHALL BE CENTERED ALONG BOTTOM WIDTH OF BERM.

00323.D19 5.9.06 RLR
 11:Server\ShredDocs\land projects 2003\2003\00130\dwg\AS-BUILT-02.DWG - Administrator - OCT 05, 2005 - 16:24:46