



GENERAL NOTES

M I S C E L L A N E O U S N O T E S

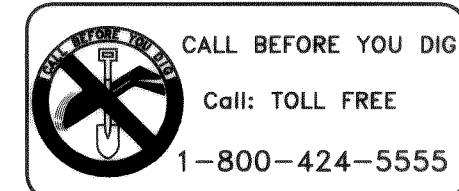
119 GRAND AVENUE, SUITE D
BELLINGHAM, WA. 98225
Tel. 360.647.7151
Fax 360.647.7160

LEGEND

EXISTING	PROPOSED		EXISTING	PROPOSED
		BURIED POWER		
		OVERHEAD POWER		
		TELEPHONE		
		GAS		
		STORM DRAINAGE		
		SEWER		
		WATER		
		SILT FENCE		
		DITCH / BIOSWALE		
		RIGHT-OF-WAY		
		EASEMENT		
		CONTOUR		
		FENCE		
		ROAD CENTERLINE		

D R A W I N G I N D E X

SHEET NO.	DRAWING TITLE
1	COVER SHEET
2	EROSION CONTROL PLAN SITE, NOTES AND DETAILS
3	AXTON ROAD & SEWER IMPROVEMENTS - STA 0+00 - 8+50
4	AXTON ROAD & SEWER IMPROVEMENTS STA 8+50 - 13+00
5	WATER AND SANITARY SEWER - PLAN & PROFILE ROAD "A"
6	ROADWAY AND STORM DRAINAGE - PLAN & PROFILE ROAD "A"
7	WATER AND SANITARY SEWER - ROAD "B" AND ACCESS ROAD
8	ROAD AND STORM IMPROVEMENTS - ROAD "B" AND ACCESS ROAD
9	CHANNELIZATION - AXTON ROAD
10	ILLUMINATION PLAN
11	STORM DETENTION POND & DETAILS
12	ROADWAY DETAILS
13	SANITARY SEWER & STORM DRAINAGE DETAILS
14	WATER DETAILS



PIONEER MEADOWS L.L.C.
FERNDALE, WA

PIONEER MEADOWS

COVER SHEET

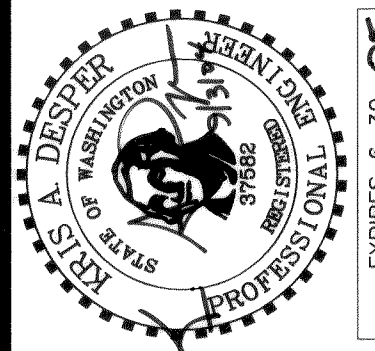
PROJECT NUMBER:
PMDW0001

DATE: 06-/02/04
DESIGN: CRP/KADE
DRAWN: TEP
CHECKED:

SCALE: AS SHOWN

SHEET NO.

1
OF 14

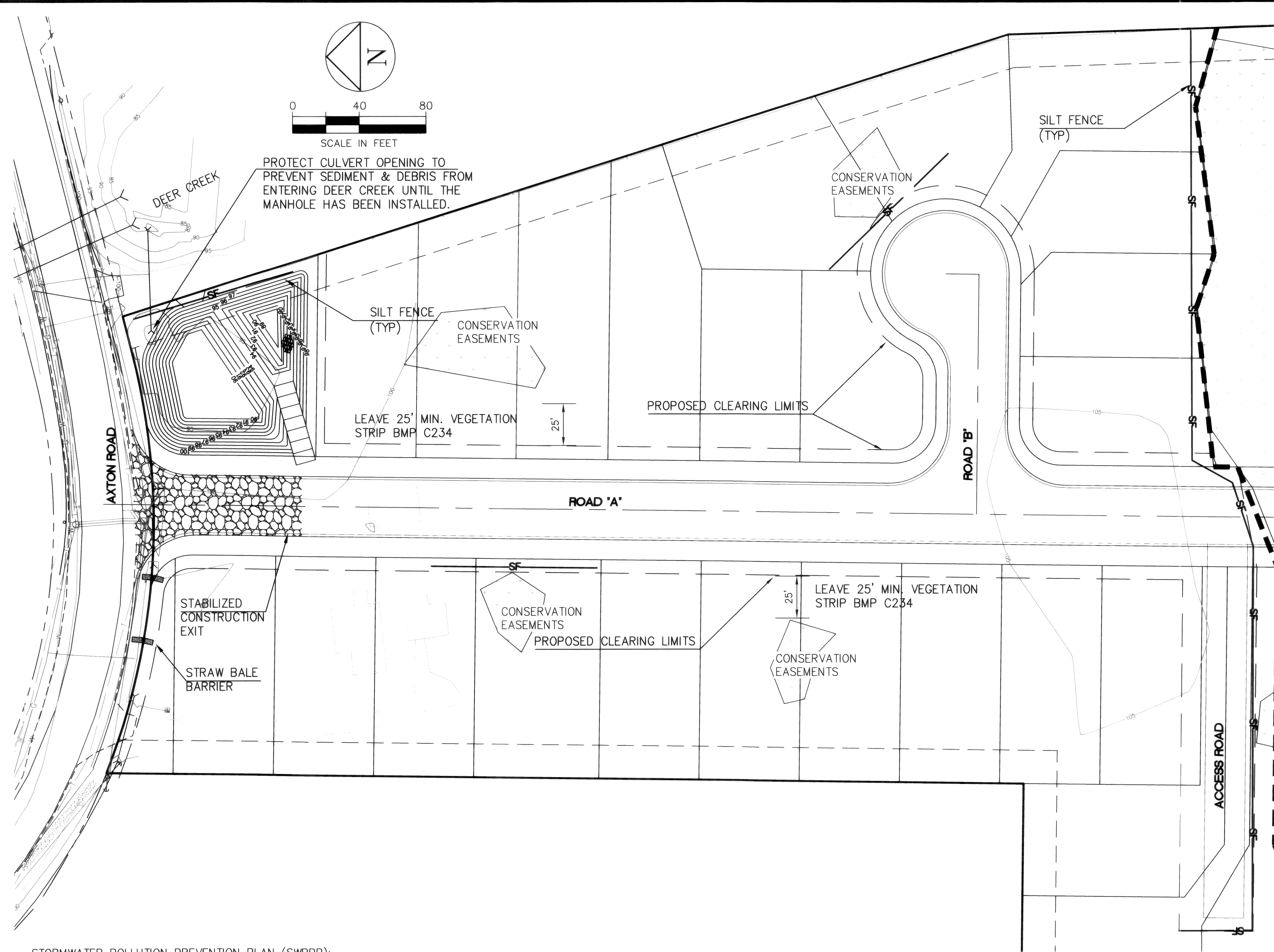


**DAVID EVANS
AND ASSOCIATES INC.**
119 Grand Avenue, Suite D
Bellingham Washington 98225
Phone: 360.647.7151
Fax: 360.647.7160

NO. REVISIONS:	00156.001	2.13.00 KR	APPD.
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AS-BUILT - 09/03/04

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STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

THE CONTRACTOR IS ADVISED THAT THE PROJECT AREA DRAINS TO A SALMON BEARING STREAM AND THAT THE CONTRACTOR IS RESPONSIBLE TO PROTECT THE RECEIVING WATERS FROM DELETERIOUS EFFECTS OF CONSTRUCTION.

THE CONTRACTOR IS REQUIRED TO HAVE A COPY OF THE APPROVED SWPPP/TESC PLAN ON SITE AT ALL TIMES.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE EROSION CONTROL MEASURES SHOWN OR DESCRIBED IN THE CONTRACT DOCUMENTS AND ANY ADDITIONAL MEASURES THAT MAY BE REQUIRED BY THE CONTRACTORS MEANS AND METHODS OF CONSTRUCTION AS NEEDED TO CONTROL EROSION AND SEDIMENT AT THE CONSTRUCTION SITE AND TO PREVENT VIOLATION OF SURFACE WATER QUALITY, GROUND WATER QUALITY, OR SEDIMENT MANAGEMENT STANDARDS. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED EARTH IS STABILIZED IN FINISH GRADES.

INSPECTION AND MAINTENANCE

A WSDOT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL SHALL BE ON SITE OR ON CALL AT ALL TIMES. ALL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL ON-SITE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIOD.

SEDIMENT MUST BE REMOVED FROM SILT FENCES BEFORE IT REACHES APPROXIMATELY ONE THIRD THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.

CONTRACTOR'S TESC RECORD

WEEKLY REPORTS SUMMARIZING THE SCOPE OF INSPECTIONS, THE PERSONNEL CONDUCTING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS SWPPP, AND ACTIONS TAKEN AS A RESULT OF THESE INSPECTIONS SHALL BE PREPARED AND RETAINED ON SITE BY THE CONTRACTOR. IN ADDITION, A RECORD OF THE FOLLOWING DATES SHALL BE INCLUDED IN THE REPORTS:

1. WHEN MAJOR GRADING ACTIVITIES OCCUR.
 2. DATES OF RAINFALL EVENTS EITHER EXCEEDING 2 HOURS DURATION OR MORE THAN 0.5 INCHES/24 HOURS.
 3. WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON SITE, OR ON A PORTION OF THE SITE.
 4. WHEN STABILIZATION MEASURES ARE INITIATED FOR PORTIONS OF THE SITE.
- SWPPP REQUIRED REPORTS SHALL BE MADE AVAILABLE TO THE OWNER AND ENGINEER ON REQUEST AND SHALL BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO APPLICATION FOR PAYMENT.

STABILIZE SOILS AND PROTECT SLOPES

FROM MAY 1 THROUGH SEPTEMBER 30, ALL EXPOSED SOILS SHALL BE PROTECTED FROM EROSION BY MULCHING, PLASTIC SHEETING, HYDROSEED COVERING, OR OTHER APPROVED MEASURES WITHIN ONE WEEK OF GRADING. FROM OCTOBER 1 THROUGH APRIL 30, ALL EXPOSED SOILS MUST BE PROTECTED WITHIN 2 DAYS OF GRADING. SOILS SHALL BE STABILIZED BEFORE A WORK SHUTDOWN, HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SEDIMENT TRAPPING MEASURES. HYDROSEED AS SOON AS PRACTICAL ALL DISTURBED AREAS NOT INDICATED IN THE CONTRACT DOCUMENTS FOR OTHER PERMANENT STABILIZATION MEASURES.

DESIGN, CONSTRUCT, AND PHASE CUT AND FILL SLOPES IN A MANNER THAT WILL MINIMIZE EROSION. REDUCE SLOPE VELOCITIES ON DISTURBED SLOPES BY PROVIDING TEMPORARY BARRIERS. STORMWATER FROM OFF SITE SHOULD BE HANDLED SEPARATELY FROM STORMWATER GENERATED ON SITE.

SEDIMENT CONTROLS

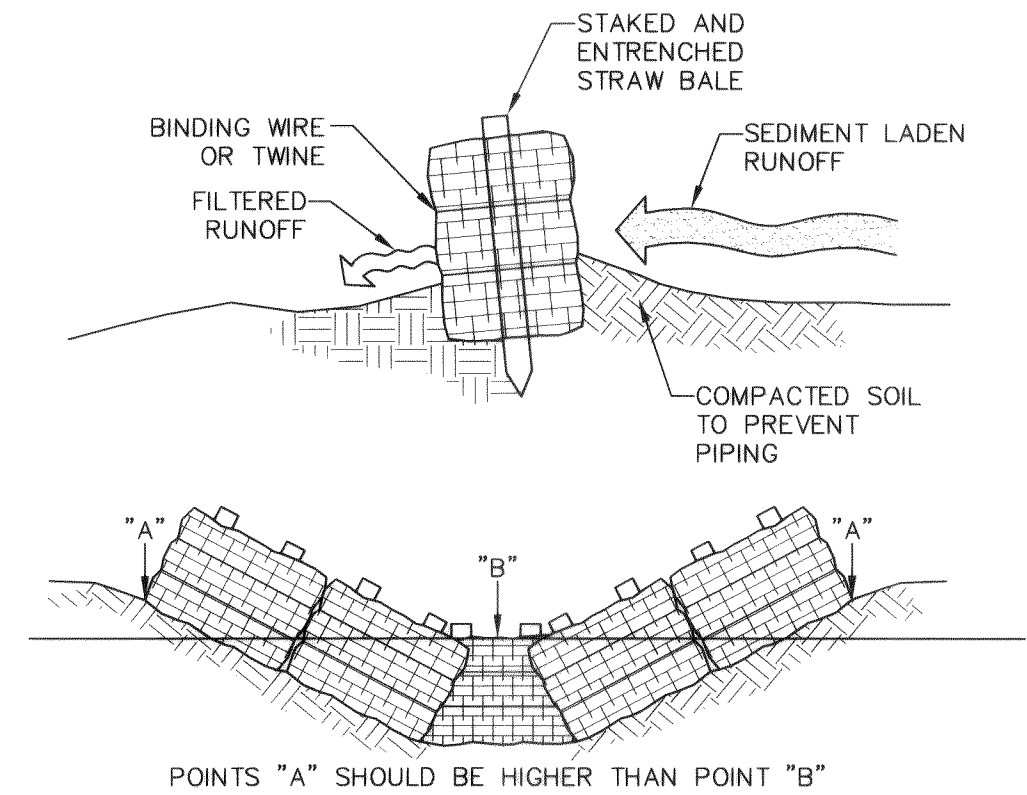
THE DUFF LAYER, NATIVE TOP SOIL, AND NATURAL VEGETATION SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICABLE. THE CONTRACTOR SHALL MARK ALL AREAS WHICH ARE NOT TO BE DISTURBED, INCLUDING SETBACKS, SENSITIVE CRITICAL AREAS AND THEIR BUFFERS, TREES AND DRAINAGE COURSES NOT TO BE DISTURBED SHALL BE MARKED AND FLAGGED BEFORE CONSTRUCTION ACTIVITIES ARE INITIATED. THESE AREAS SHALL BE PROTECTED BY THE CONTRACTOR WITH BARRIER FENCING AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER WHEN MEASURES UNDER THIS SWPPP AND/OR CONSTRUCTION ACTIVITIES ARE INITIATED.

THE CONTRACTOR MAY ELECT TO CONSTRUCT TEMPORARY SEDIMENTATION PONDS, TANKS, OR OTHER FACILITIES AS NECESSARY TO CONTROL RUNOFF AND/OR TO FILTER DEWATERING DISCHARGE. THE CONTRACTOR MAY MAKE TEMPORARY CONNECTIONS TO THE EXISTING STORM DRAINAGE SYSTEM AS NECESSARY TO CONVEY FLOW FROM TEMPORARY FACILITIES. TEMPORARY ON-SITE CONVEYANCE CHANNELS REQUIRED BY THE CONTRACTOR'S MEANS AND METHODS SHALL BE DESIGNED, CONSTRUCTED, AND STABILIZED TO PREVENT EROSION FROM THE EXPECTED VELOCITY OF A 2-YEAR, 24-HOUR FREQUENCY STORM FOR THE DEVELOPED CONDITION. IN LIEU OF DESIGN, THE CONTRACTOR MAY ELECT TO LINE TEMPORARY CHANNELS AND FACILITIES WITH EROSION CONTROL MAT AT CONTRACTOR'S EXPENSE.

CONTROL DEWATERING

HIGHLY TURBID OR CONTAMINATED DEWATERING WATER FROM CONSTRUCTION EQUIPMENT OPERATION SHALL BE HANDLED SEPARATELY FROM STORMWATER. DISPOSAL OPTIONS FOR DEWATERING DISCHARGE INCLUDE:

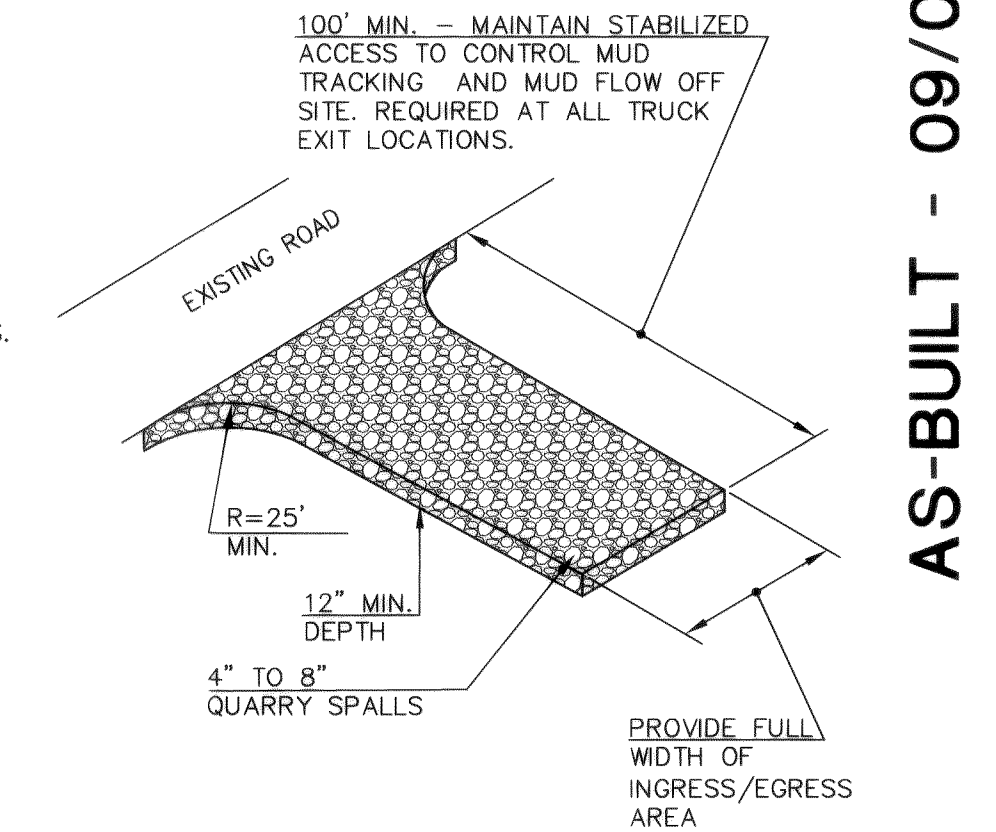
1. INFILTRATION
2. TRANSPORT OFF SITE IN A VEHICLE, SUCH AS A VACUUM FLUSH TRUCK, FOR LEGAL DISPOSAL IN A MANNER THAT DOES NOT POLLUTE STATE WATERS.
3. USE OF AN APPROPRIATELY SIZED AND MAINTAINED SEDIMENTATION BAG (DIRTBAG) WITH OUTFALL TO A DITCH OR SWALE FOR SMALL
4. VOLUMES OF LOCALIZED DEWATERING ON-SITE TREATMENT USING APPROVED CHEMICAL TREATMENT (MUST BE PRE-APPROVED BY DOE PRIOR TO CONSTRUCTION AND CLOSELY MONITORED DURING USE OF THIS METHOD).



PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY

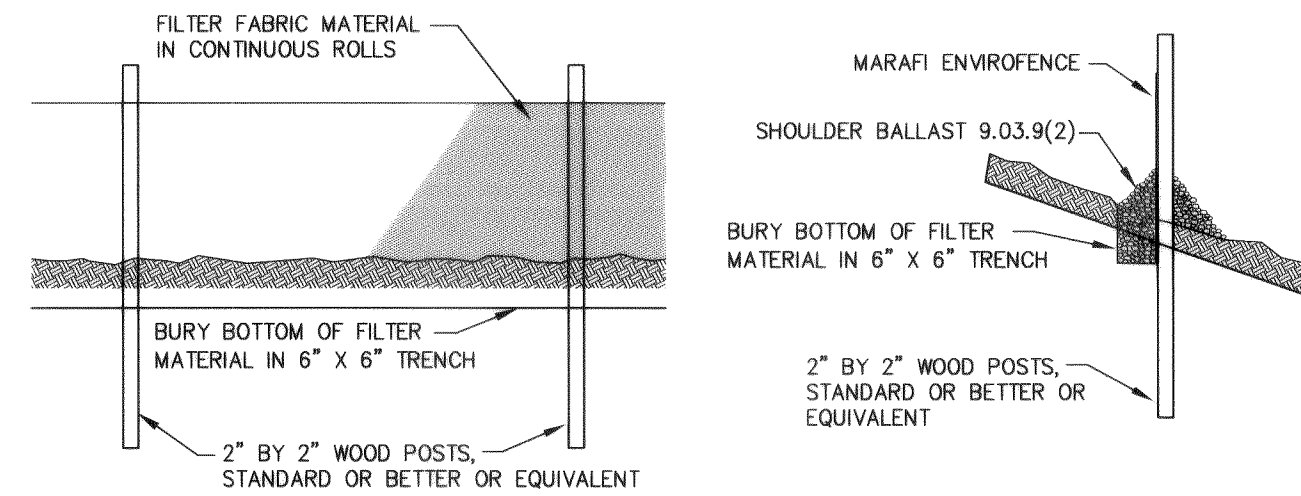
STRAW BALE BARRIER

ADAPTED FROM DOE STORMWATER BMP 230 N.T.S.
MANAGEMENT MANUAL



STABILIZED CONSTRUCTION EXIT

ADAPTED FROM DOE STORMWATER MANAGEMENT MANUAL BMP C105 N.T.S.



MAINTENANCE

SEDIMENT MUST BE REMOVED WHEN IT REACHES APPROXIMATELY ONE THIRD THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FILTER FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

SILT FENCE

ADAPTED FROM DOE STORMWATER MANAGEMENT MANUAL BMP C233 N.T.S.

CONTROL POLLUTANTS

CONTRACTOR MUST SUBMIT A SPILL PREVENTION CONTROL AND COUNTER MEASURE (SPCC) PLAN AND IMPLEMENT REQUIRED MEASURES TO CONTROL POLLUTANTS. ALL POLLUTANT DISCHARGES OTHER THAN SEDIMENT THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER, GROUNDWATER, OR SOILS TO REMAIN ON SITE.

THE USE OF LIME, FLYASH, OR OTHER SOIL AMENDMENTS THAT COULD ALTER THE PH OF DISCHARGE WATERS IS PROHIBITED.

CONSTRUCTION ACCESS

WHEN POSSIBLE, LIMIT CONSTRUCTION VEHICLE ACCESS AND EXIT TO ONE ROUTE. ALL ACCESS/EXIT POINTS SHALL BE STABILIZED WITH QUARRY SPALLS IN CONFORMANCE WITH THIS SHEET. CONSTRUCTION ACCESS RESTORATION SHALL BE EQUAL TO OR BETTER THAN THE PRECONSTRUCTION CONDITION.

PUBLIC RIGHTS-OF-WAY SHALL BE KEPT IN A CLEAN AND SERVICEABLE CONDITION AT ALL TIMES. IN THE EVENT MATERIALS ARE INADVERTENTLY DEPOSITED ON ROADWAYS THE MATERIAL SHALL BE PROMPTLY REMOVED. MATERIALS ARE TO BE SWEEPED AND REMOVED PRIOR TO ANY STREET FLUSHING.

AFTER FINAL SITE STABILIZATION

ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED FROM THE SITE OR INCORPORATED INTO FINISHED GRADING. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.

APPROVED

NOV 03 2004
BY Robert Link
CITY OF FERNDALE



PIONEER MEADOWS L.L.C.
FERNDALE, WA

PIONEER MEADOWS
EROSION CONTROL PLAN
SITE, NOTES AND DETAILS

PIONEER MEADOWS L.L.C.
FERNDALE, WA

PROJECT NUMBER:

PMWD0001

DATE: 6/02/04

DESIGN: KADE

DRAWN: TEP

CHECKED:

SCALE: 1"=40'

SHEET NO.

2

OF

14

1. COMMENTS PER CITY OF FERNDALE TEP 9-10-02

2. TEXT CHANGES

KADE 1-09-03

NO. REVISIONS:

00156-002-2-13-06

APPD.

EXPRES 6-30-05

DAVID EVANS INC.

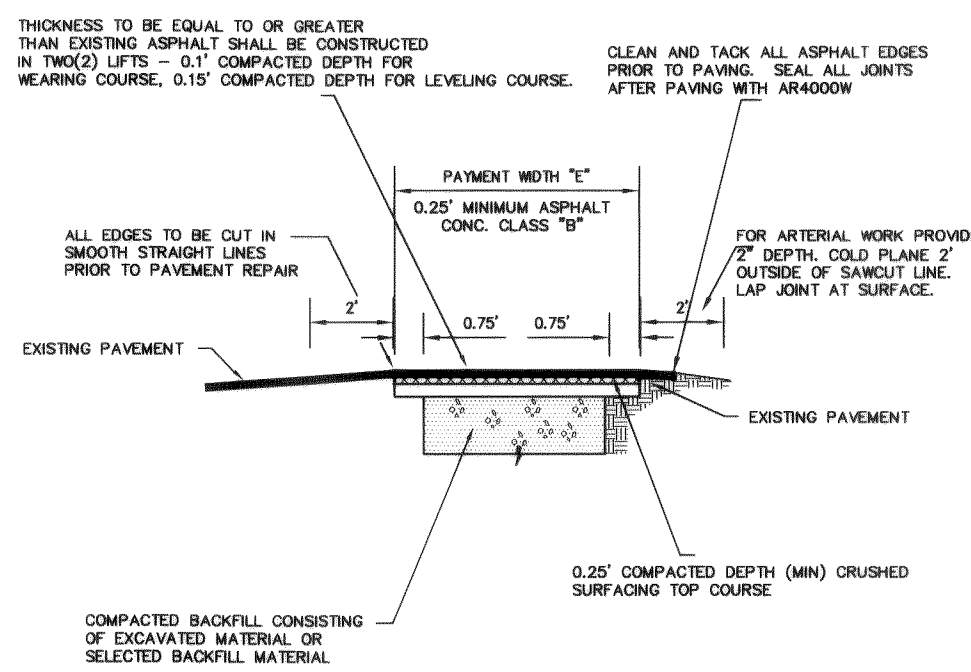
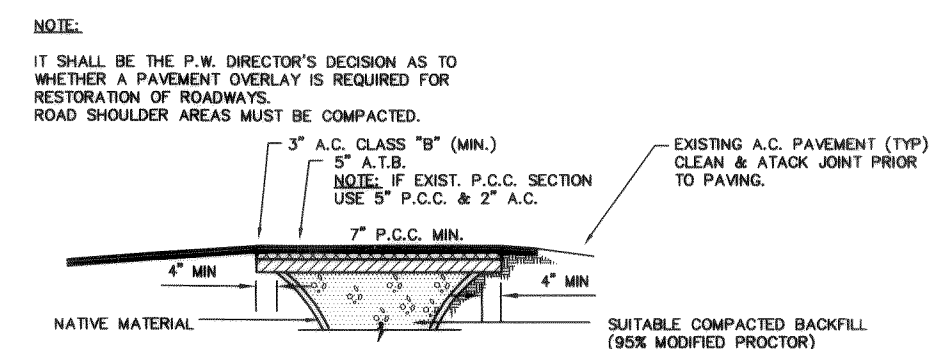
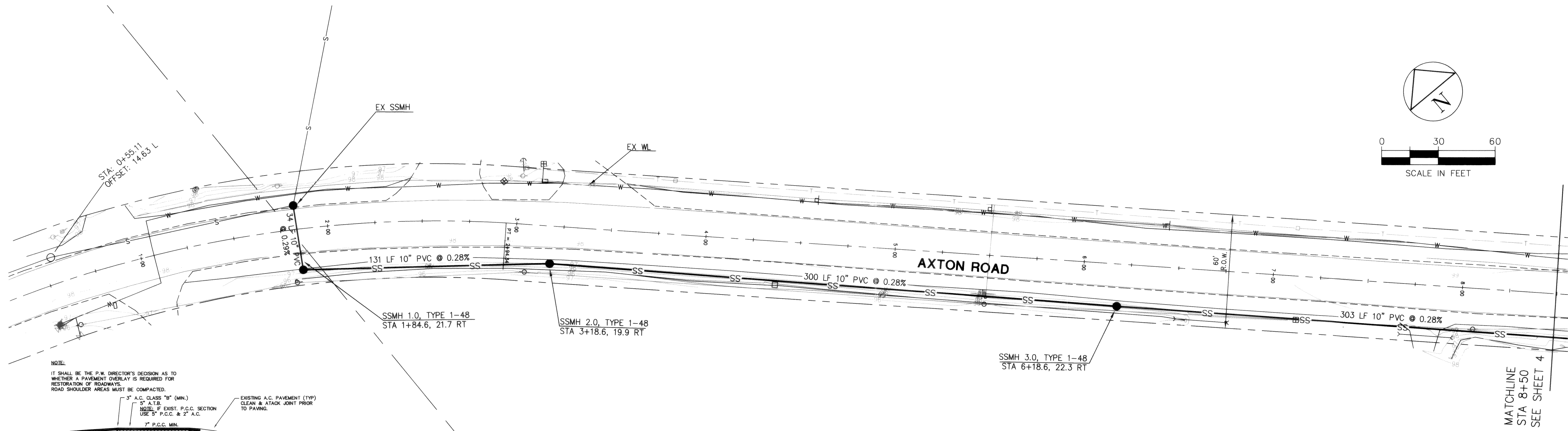
AND ASSOCIATES INC.

119 Grand Avenue, Suite D

Bellingham Washington 98225

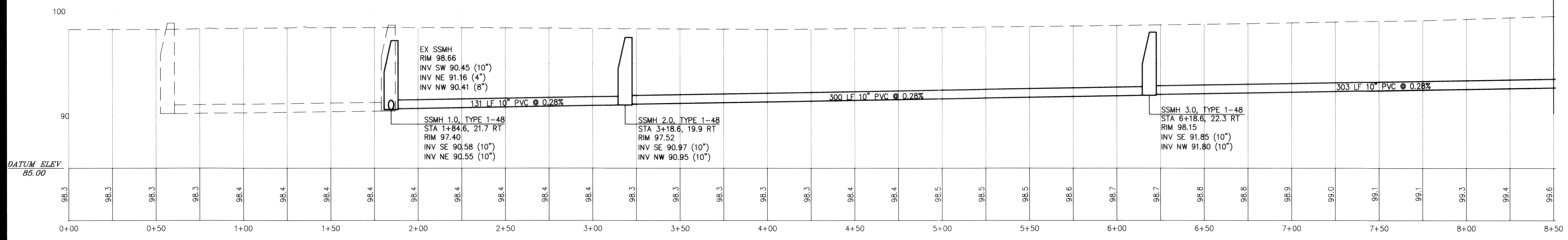
Phone: 360.647.7151

Fax: 360.647.7160



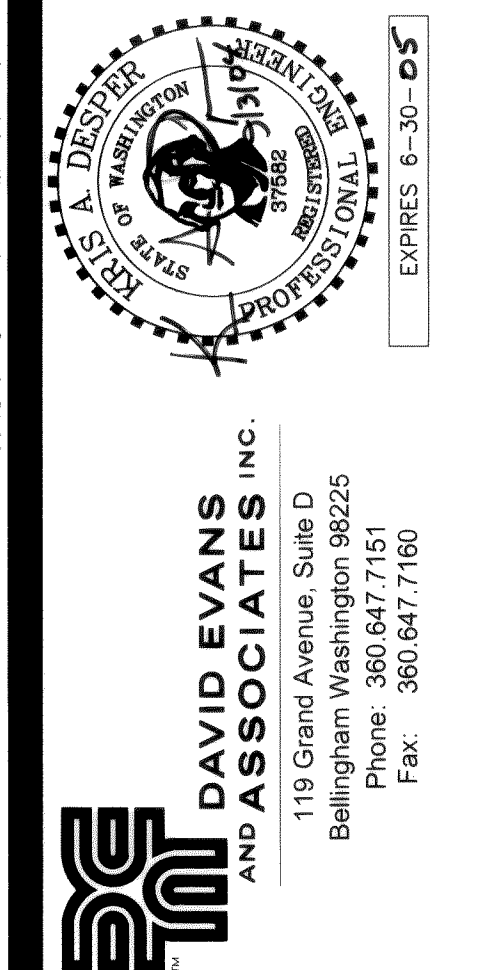
NOTE: EXISTING CONDITION OF AXTON ROAD INCLUDES AN 8" CONCRETE PANEL LOCATED UNDER 2' OF GRAVEL AND THE ASPHALT PAVEMENT.

APPROVED		CITY OF FERNDALE EXISTING ROADWAY RESTORATION REPAIR		NOT TO SCALE
Public Works Director	Date			R-11
JUNE 1995				



AS-BUILT - 09/03/04

1. COMMENTS PER CITY OF FERNDALE TEP 9-10-02
2. COMMENTS PER CITY OF FERNDALE KAD 12-19-02
NO. REVISIONS: 00186.003 2-13-06 KAD
APPD.

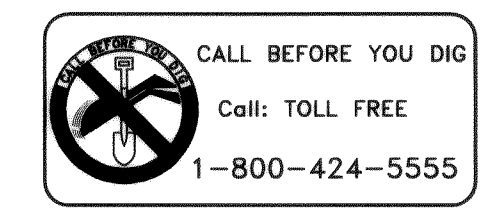


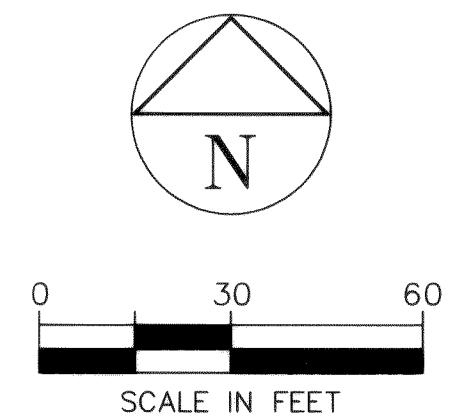
PIONEER MEADOWS L.L.C.
FERNDALE, WA
PIONEER MEADOWS
PLAN AND PROFILE - STA 0+00 - 8+50
AXTON ROAD SEWER IMPROVEMENTS


PROJECT NUMBER:
PMDW0001
DATE: 11/06/02
DESIGN: CRP/KADE
DRAWN: TEP
CHECKED:
SCALE: 1"=30'
SHEET NO.

3
OF 14

APPROVED
NOV 03 2004
CITY OF FERNDALE






 KATHA A. DESTLER
 STATE OF WASHINGTON
 DEPARTMENT OF SOCIAL & HEALTH SERVICES
 PROFESSIONAL
 INDUSTRIAL STRIKE
 NO. REVISIONS: _____
 APPD. _____
 00156.004 2:13:00 PM
 EXPIRES 6-30-05

DE

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AND ASSOCIATES INC.**

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Bellingham Washington 98225
Phone: 360.647.7151
Fax: 360.647.7160

PIONEER MEADOWS L.L.C.
FERNDALE, WA

PIONEER MEADOWS

PLAN AND PROFILE

AXTON ROAD & SEWER IMPROVEMENTS

PROJECT NUMBER:
PMDW0001

DATE: 6/03/04
DESIGN: CRP/KADE
DRAWN: TEP
CHECKED:

SCALE: 1"=30'

SHEET NO.

4
OF 14

APPROVED

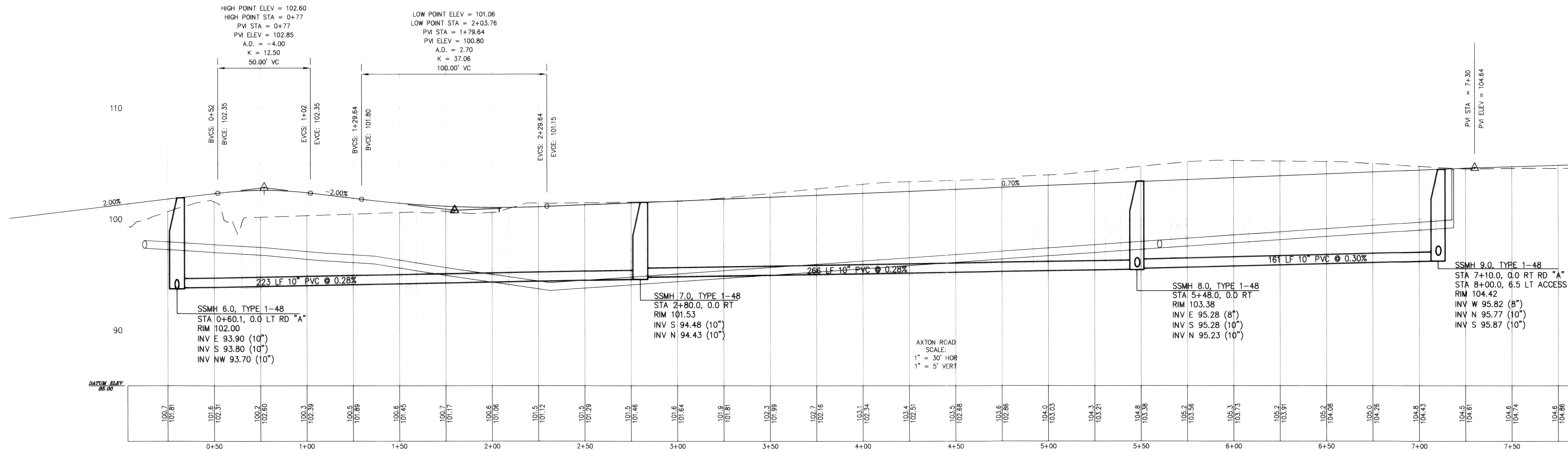
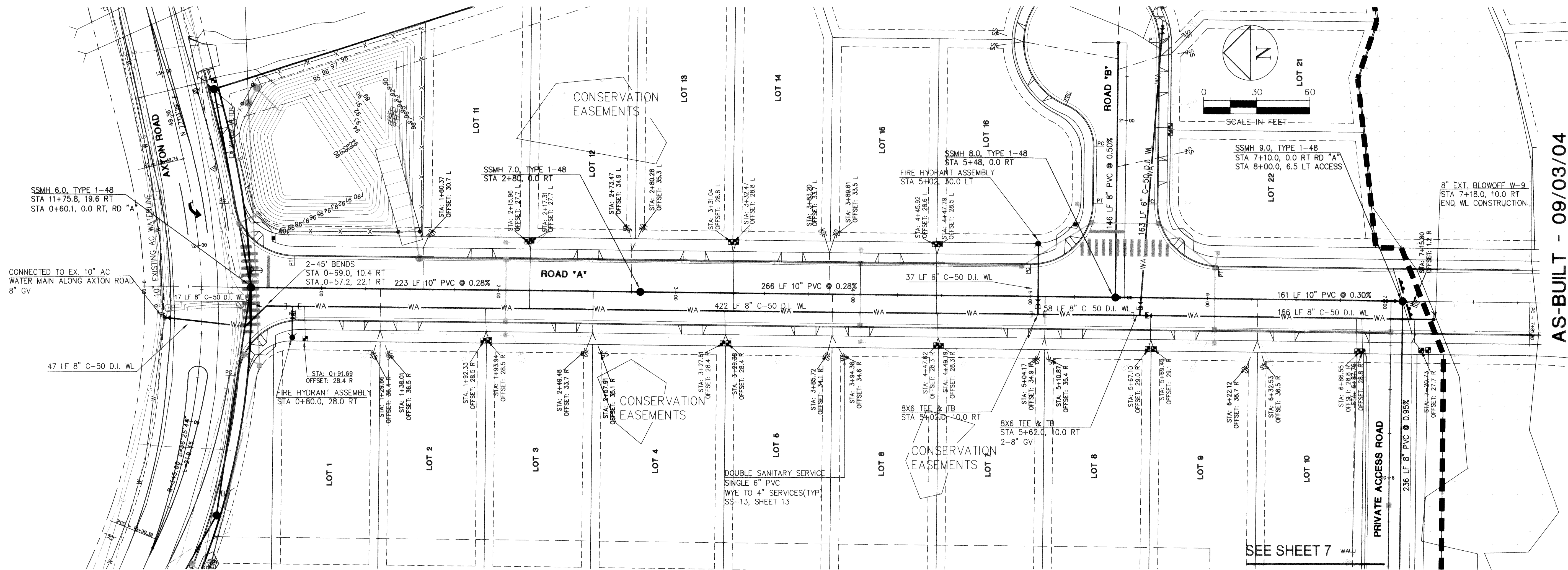
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BY Robert C. [Signature]

CITY OF FERNDALE



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PIONEER MEADOWS L.L.C.
FERNDAL, WA
PIONEER MEADOWS
PLAN & PROFILE ROAD "A"
WATER AND SANITARY SEWER

PROJECT NUMBER:
PMDW0001
DATE: 6/02/04
DESIGN: CRP/KADE
DRAWN: TEP
CHECKED:

SCALE: AS SHOWN

SHEET NO.

5

OF 14



DAVID EVANS
AND ASSOCIATES INC.
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Phone: 360.647.7151
Fax: 360.647.7160

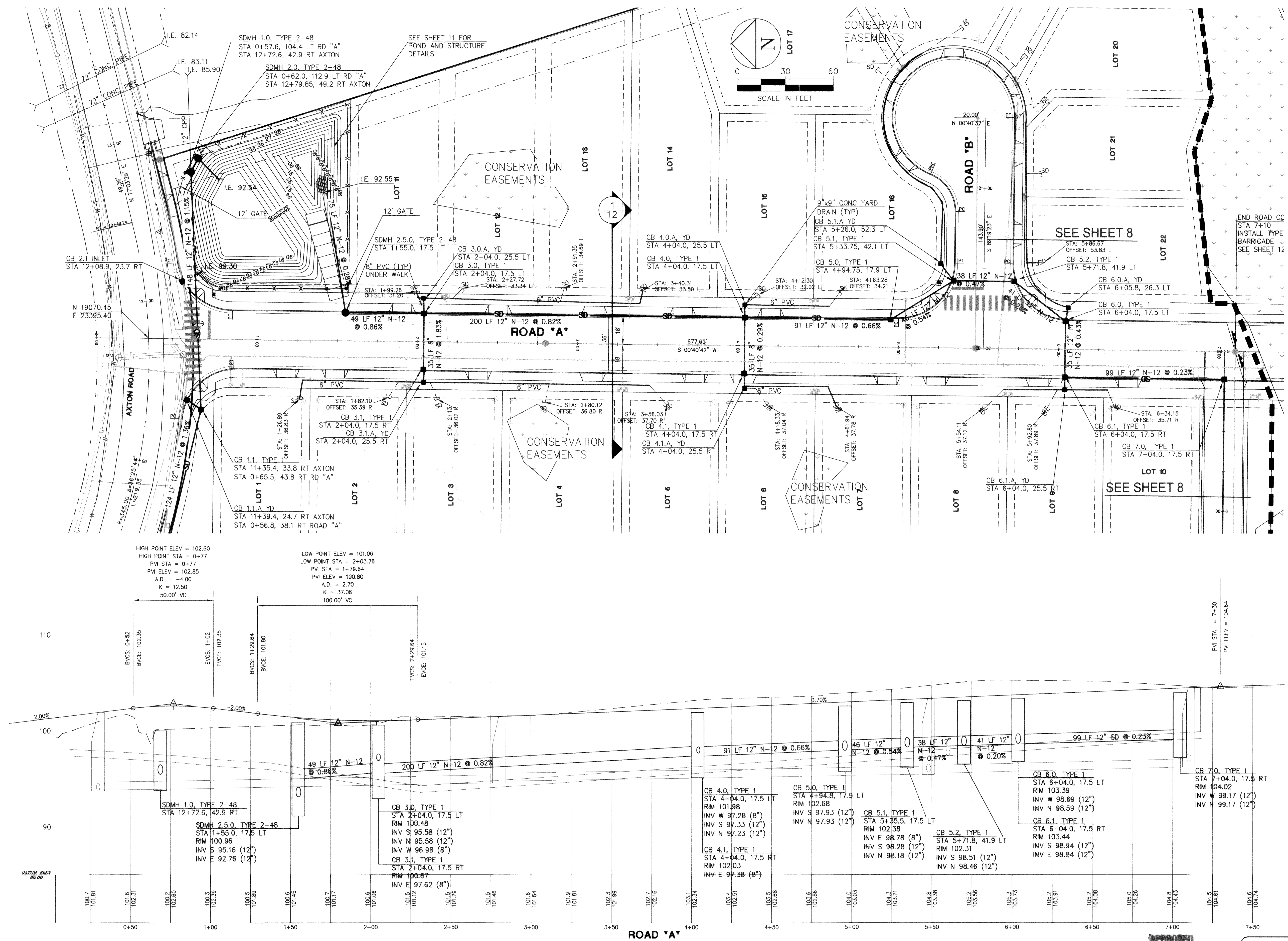
2. COMMENTS PER CITY OF FERNDAL KAD 12/19/02

NO. REVISIONS: 00156.005 2.13.06
APPD.

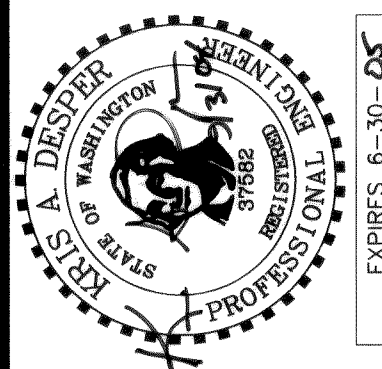
APPROVED

NOV 03 2004
BY *Robert Kade*
CITY OF FERNDAL





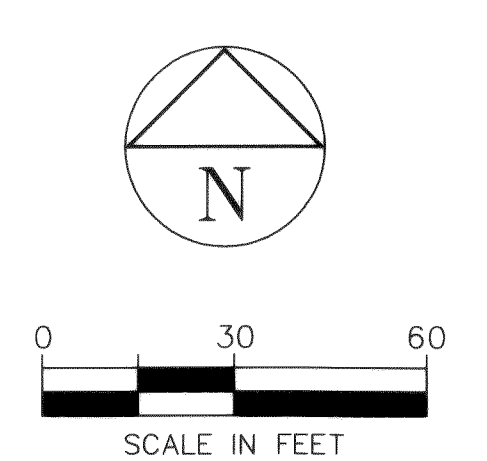
AS-BUILT - 09/03/04



1. COMMENTS PER CITY OF FERNDALE TEP 9-10-02

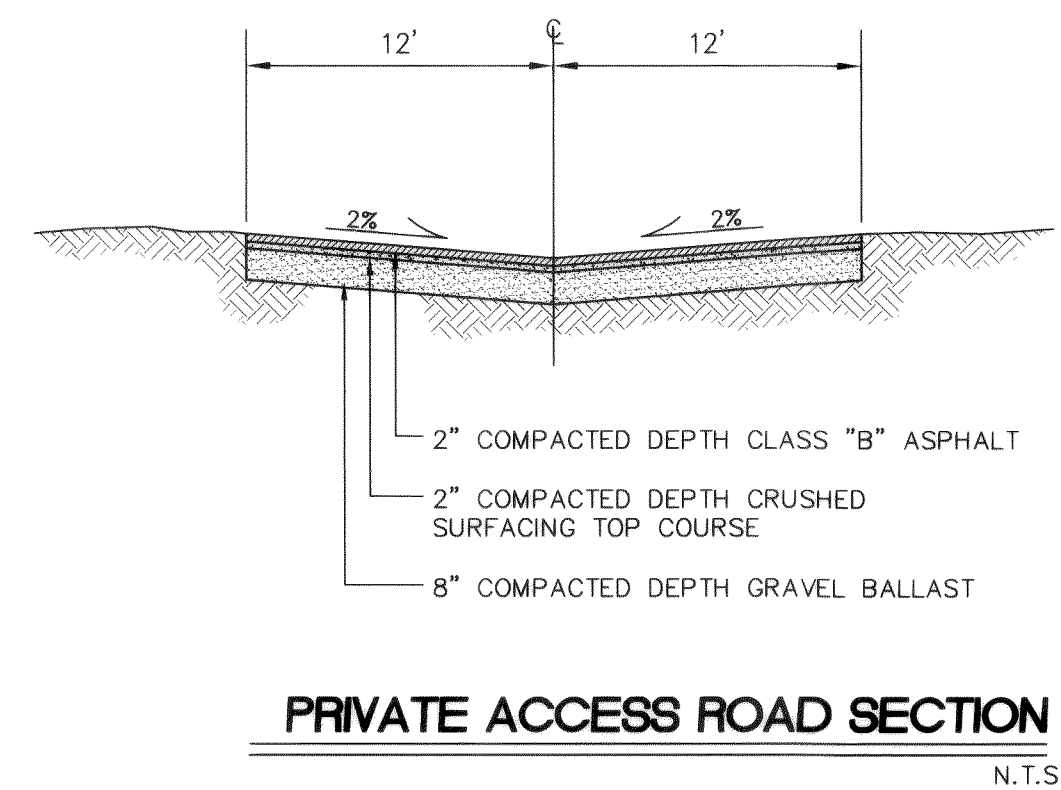
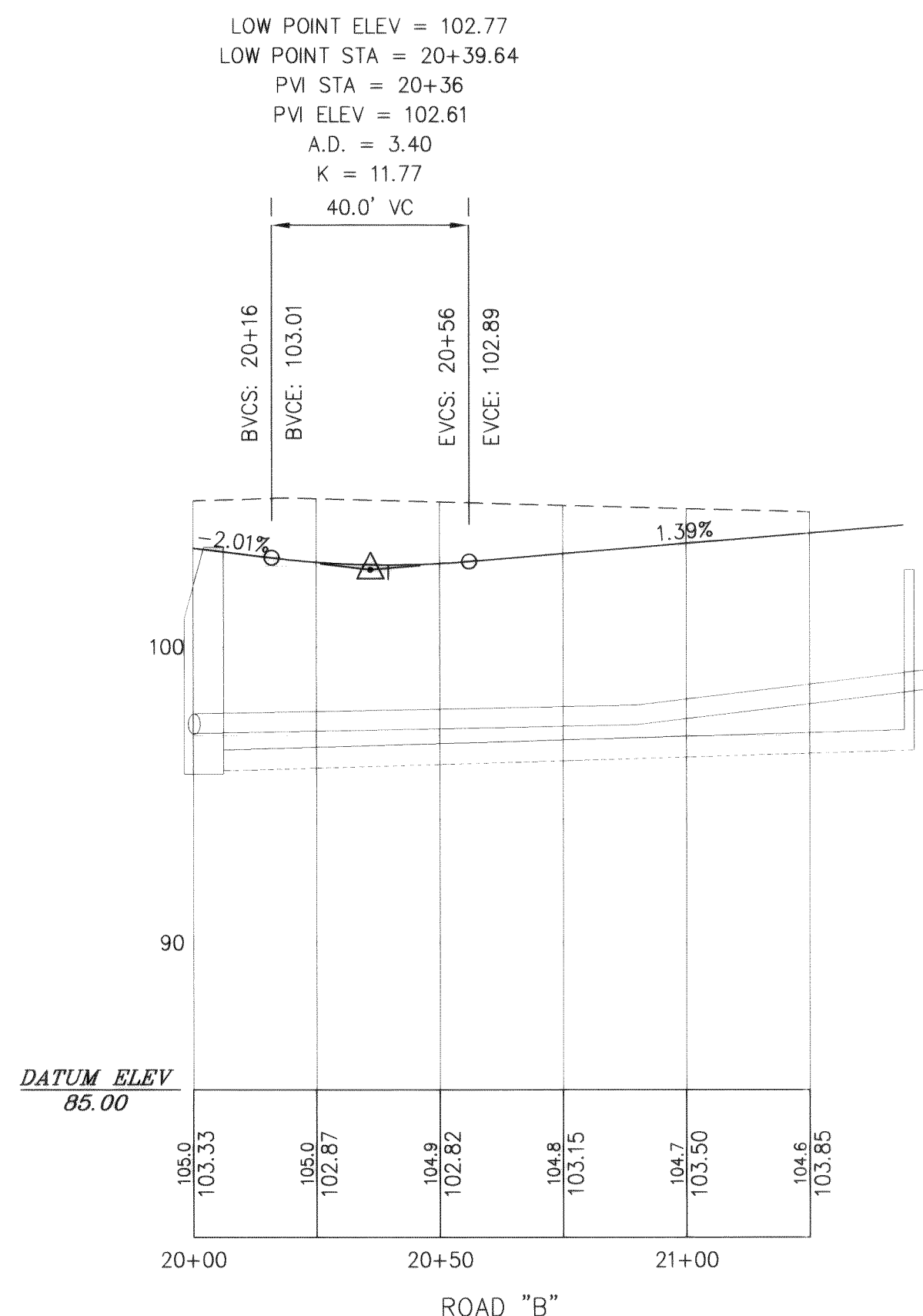
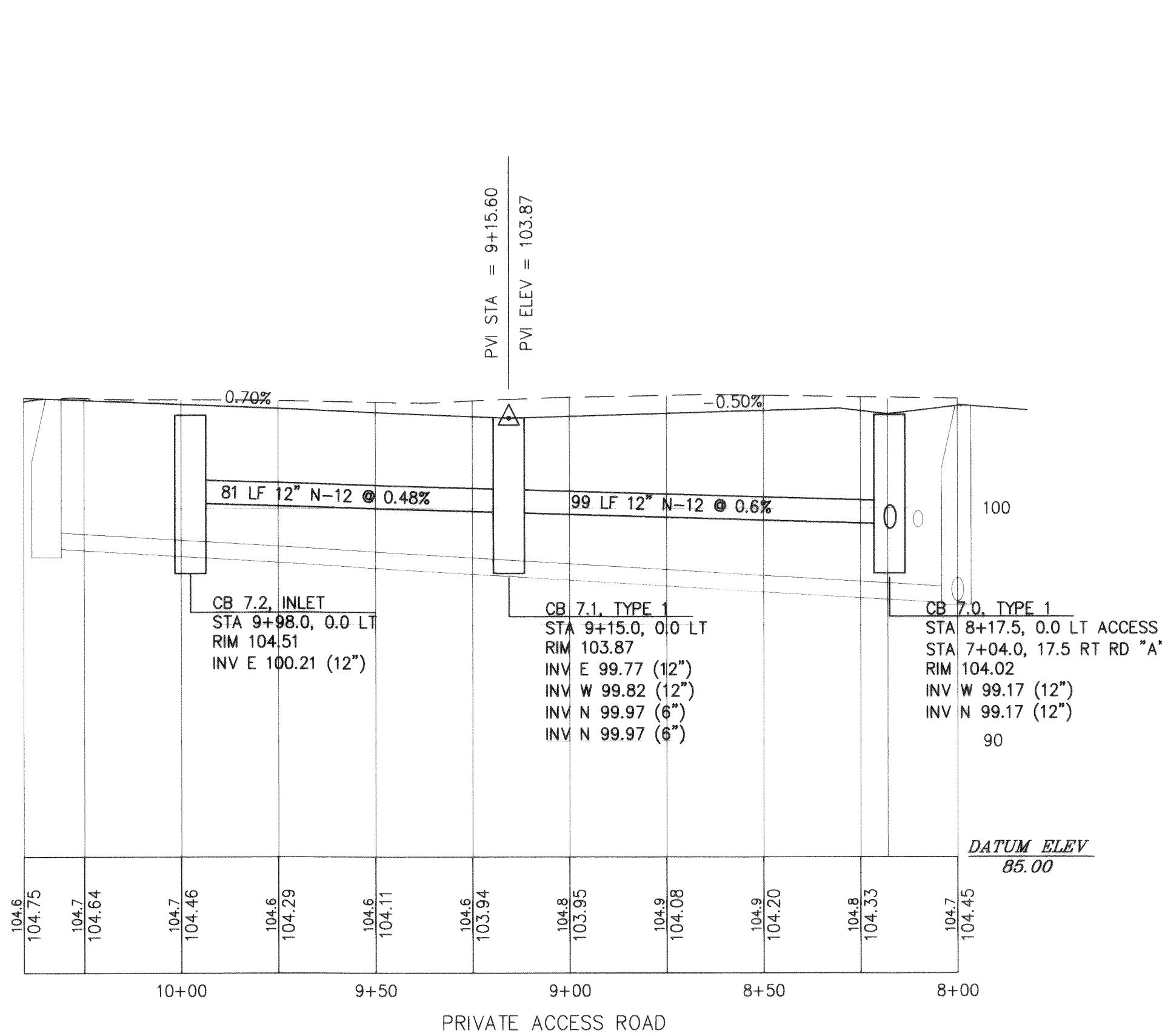
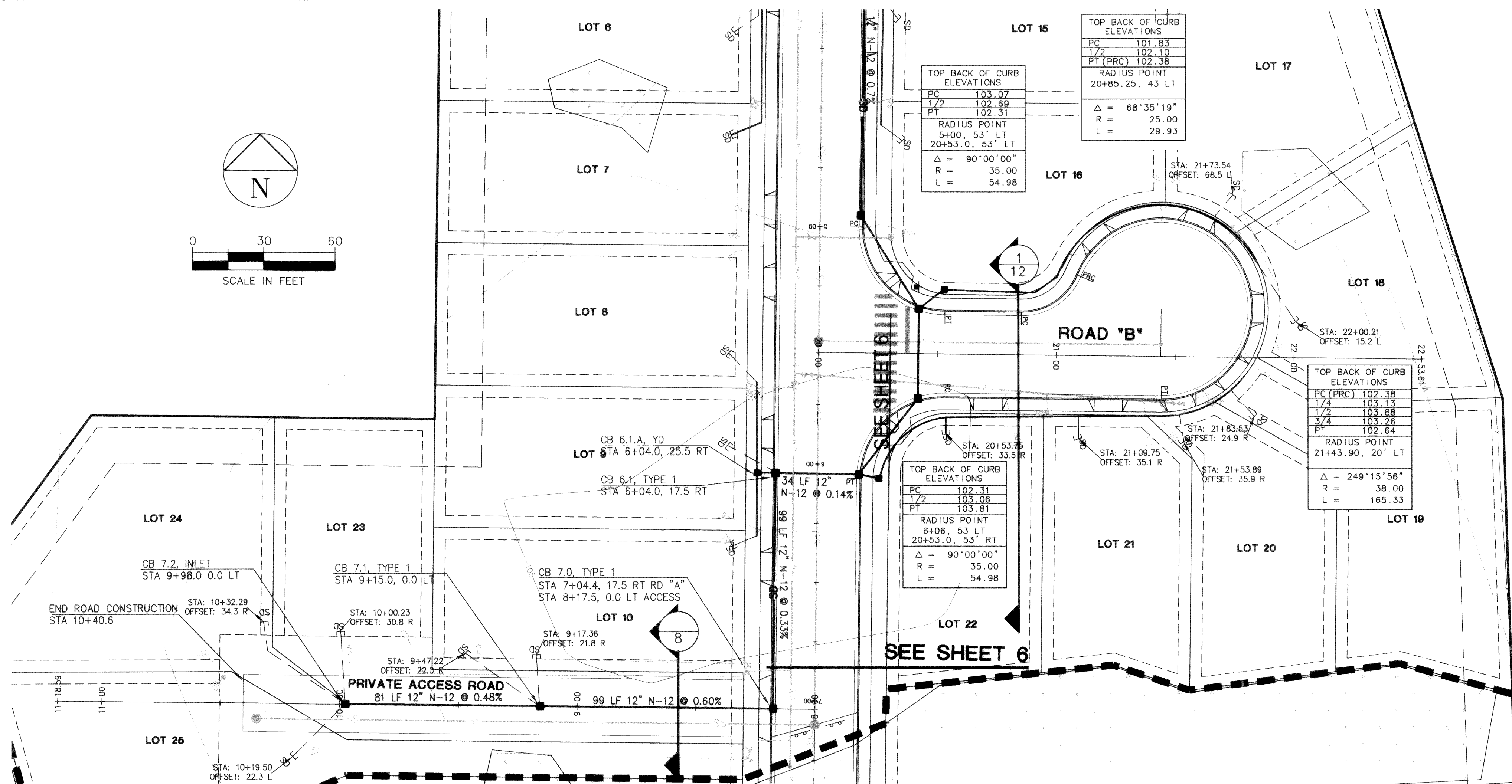
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APPD.



1.	COMMENTS PER CITY OF FERNDALE	SEP 9-10-02
2.	COMMENTS PER CITY OF FERNDALE	KAD 12-19-02
3.	COMMENTS PER CITY OF FERNDALE	KAD 3-31-03
	NO. REVISIONS:	APPD.

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NOV 03 2004

BY [Signature]

CITY OF FERNDALE

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AS-BUILT - 09/03/04

PIONEER MEADOWS L.L.C.
FERNDAL, WA

PIONEER MEADOWS

ROAD AND STORM IMPROVEMENTS
ROAD 'B' AND ACCESS ROAD

PROJECT NUMBER:
PMDW0001

DATE: 6/04/04
DESIGN: CRP/KADE
DRAWN: TEP
CHECKED:

SCALE: AS SHOWN

SHEET NO.

8

OF 14



DAVID EVANS
AND ASSOCIATES, INC.

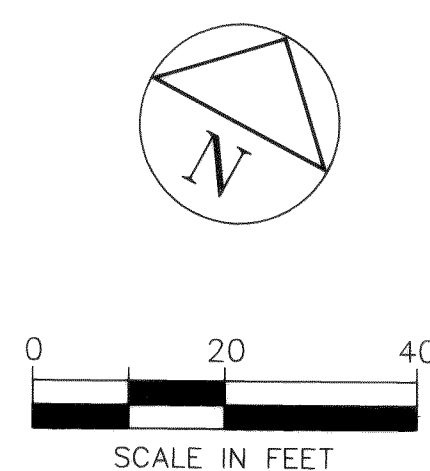
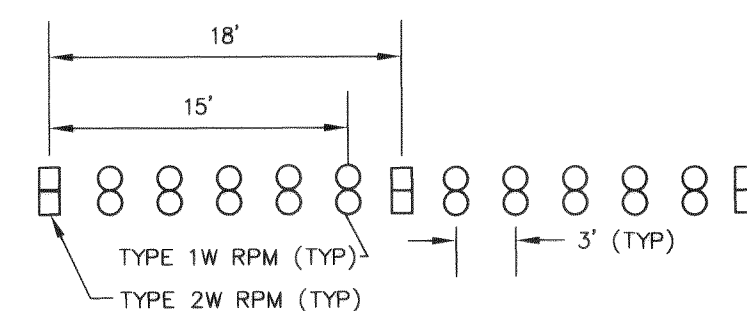
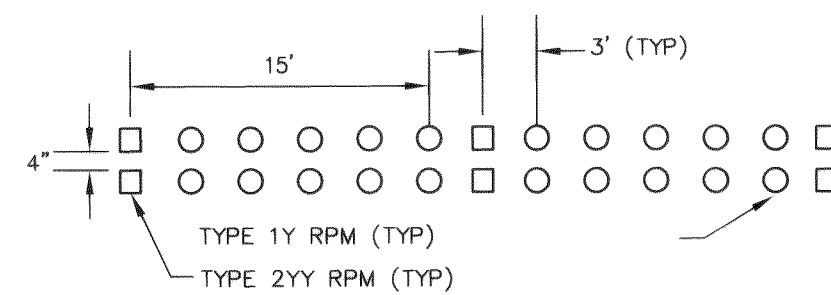
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Phone: 360.647.7151
Fax: 360.647.7160

NO. REVISIONS:

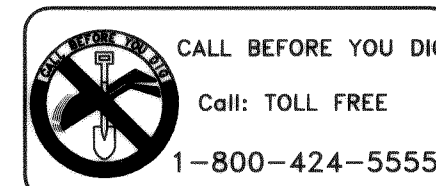
1. COMMENTS PER CITY OF FERNDALE TEP 9-10-02

00150.008 2-13-06

APPD.



NOV 03 2004
BY Robert J. [Signature]
CITY OF FERNDALE



AS-BUILT - 09/03/04

PIONEER MEADOWS L.L.C.
FERNDALE, WA

PIONEER MEADOWS

CIVIL IMPROVEMENTS

CHANNELIZATION - AXTON ROAD

PROJECT NUMBER:

PMDW0001

DATE: 6/04/04
DESIGN: CRP/KADE
DRAWN: TEP
CHECKED:

SCALE: 1"=20'

SHEET NO.

9

OF 14

NO.	REVISIONS:
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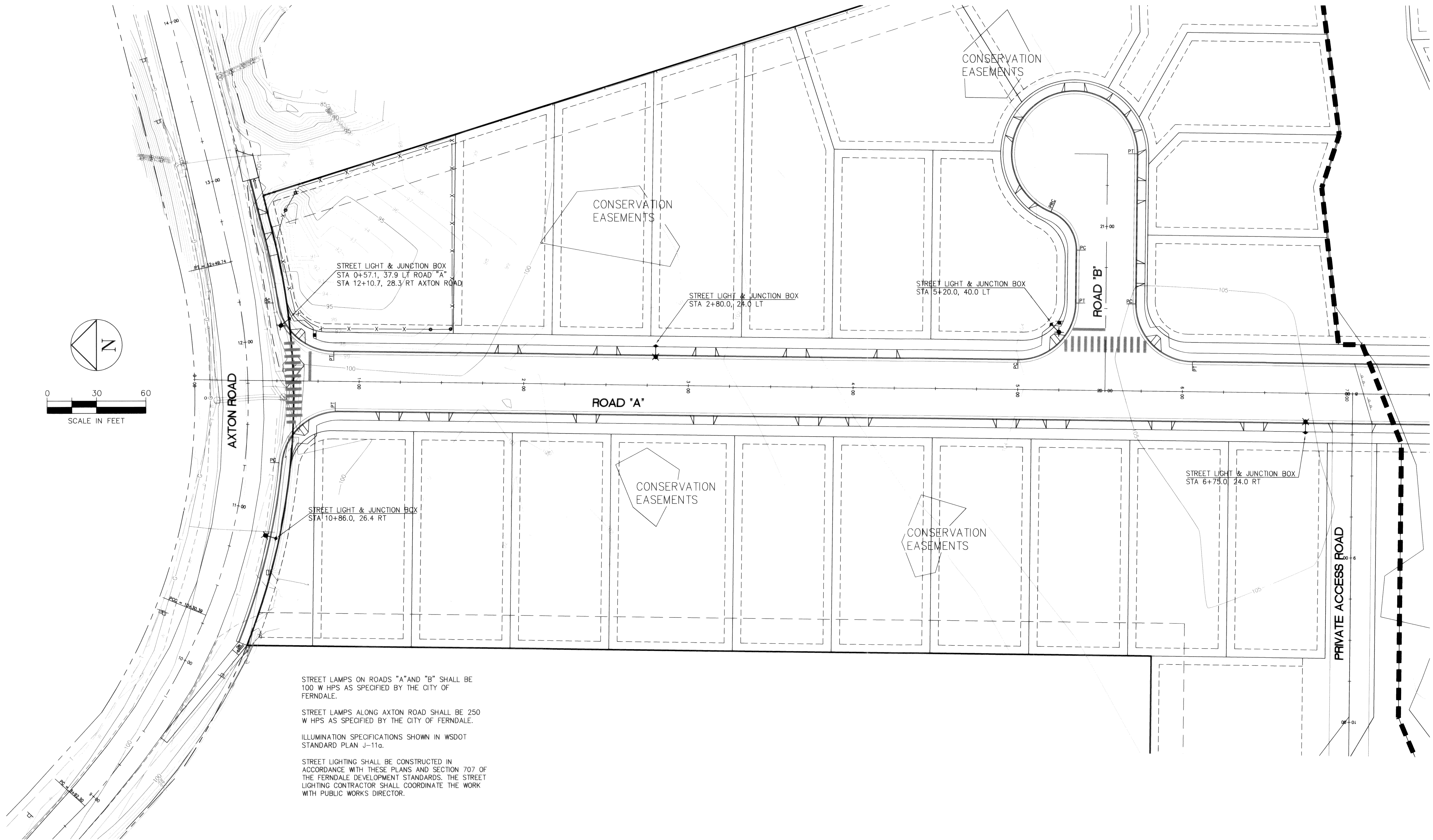
NO. REVISIONS: 00156.009 2.13.06 *pk* APPD.

EXPIRES 6-30-05

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Fax: 360.647.7160

Phone: 360.647.7151
Fax: 360.647.7160

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STREET LAMPS ON ROADS "A" AND "B" SHALL BE 100 W HPS AS SPECIFIED BY THE CITY OF FERNDAL.

STREET LAMPS ALONG AXTON ROAD SHALL BE 250 W HPS AS SPECIFIED BY THE CITY OF FERNDAL.

ILLUMINATION SPECIFICATIONS SHOWN IN WSDOT STANDARD PLAN J-110.

STREET LIGHTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND SECTION 707 OF THE FERNDAL DEVELOPMENT STANDARDS. THE STREET LIGHTING CONTRACTOR SHALL COORDINATE THE WORK WITH PUBLIC WORKS DIRECTOR.

APPROVED
NOV 03 2004
BY *Robert J. ...*
CITY OF FERNDAL

CALL BEFORE YOU DIG
Call: TOLL FREE
1-800-424-5555

AS-BUILT - 09/03/04

PIONEER MEADOWS L.L.C.
FERNDAL, WA
PIONEER MEADOWS
CIVIL IMPROVEMENTS
ILLUMINATION PLAN

PROJECT NUMBER:
PMDW0001

DATE: 6/04/04
DESIGN: CRP/KADE
DRAWN: TEP
CHECKED:

SCALE: 1"=30'

SHEET NO.

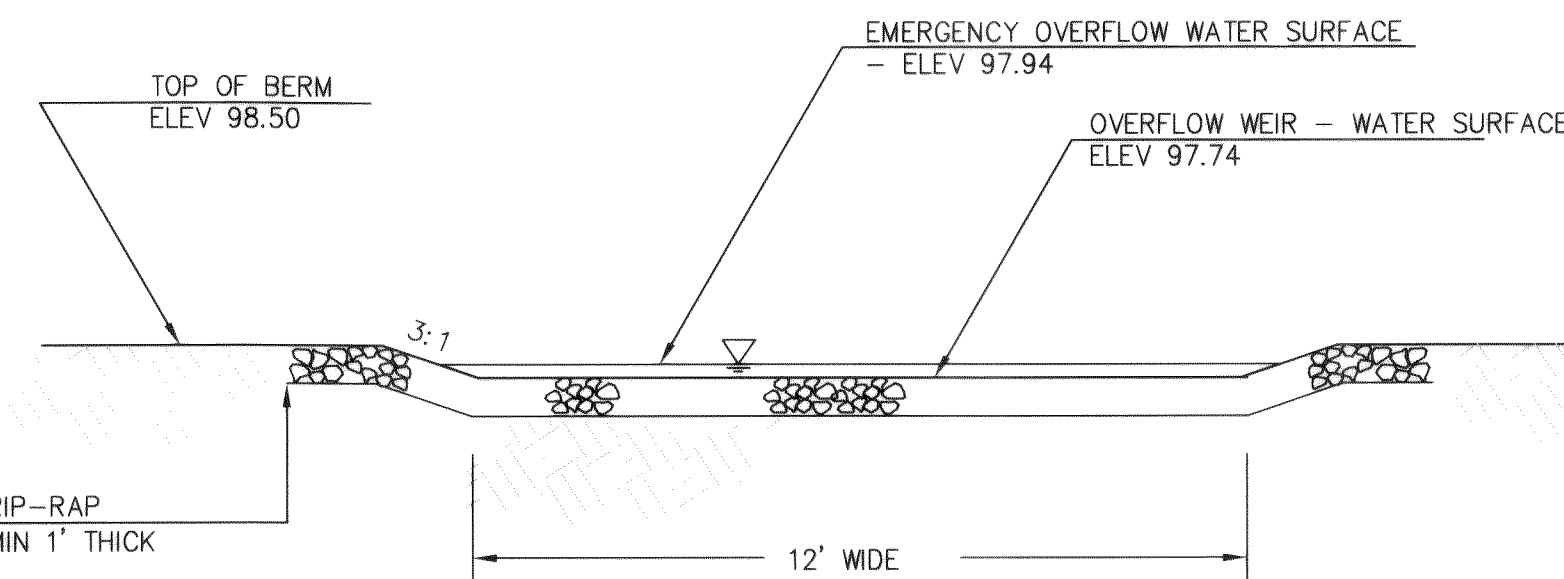
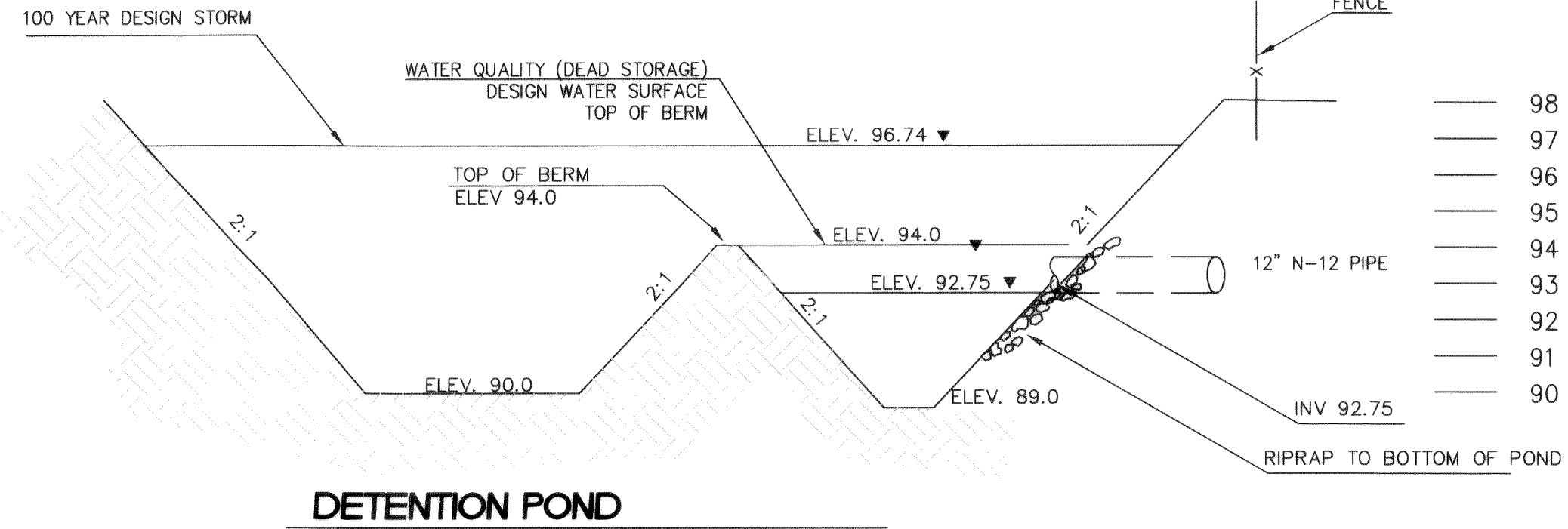
10
OF 14

DAVID EVANS AND ASSOCIATES INC.
119 Grand Avenue, Suite D
Bellingham Washington 98225
Phone: 360.647.7151
Fax: 360.647.7160

STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 6-30-05

NO. REVISIONS:
00150.010 2.13.06 NR

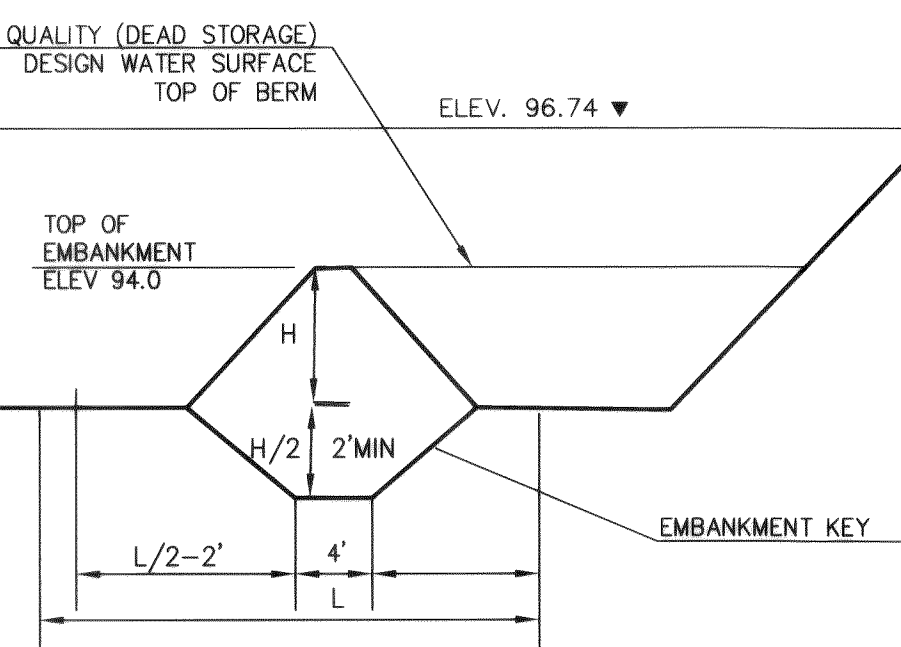
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H= HEIGHT OF EMBANKMENT
ABOVE EXISTING GRADE
L= LENGTH OF EMBANKMENT

THE BERM EMBANKMENT SHALL BE CONSTRUCTED OF COMPACTED SOIL (95% MINIMUM DRY DENSITY, MODIFIED PROCTOR METHODS PER ASTM D 1557), PLACED IN 6-INCH LIFTS, WITH THE FOLLOWING SOIL CHARACTERISTICS PER THE UNITED STATES DEPARTMENT OF AGRICULTURE'S TEXTURAL TRIANGLE: A MINIMUM OF 20% SILT AND CLAY, A MAXIMUM OF 60% SAND, A MAXIMUM OF 60% SILT, WITH NOMINAL GRAVEL AND COBBLE CONTENT. EXCAVATED GLACIAL TILL FROM THE SITE MAY BE USED FOR BERM EMBANKMENT MATERIAL WITH GEOTECHNICAL ENGINEER APPROVAL.

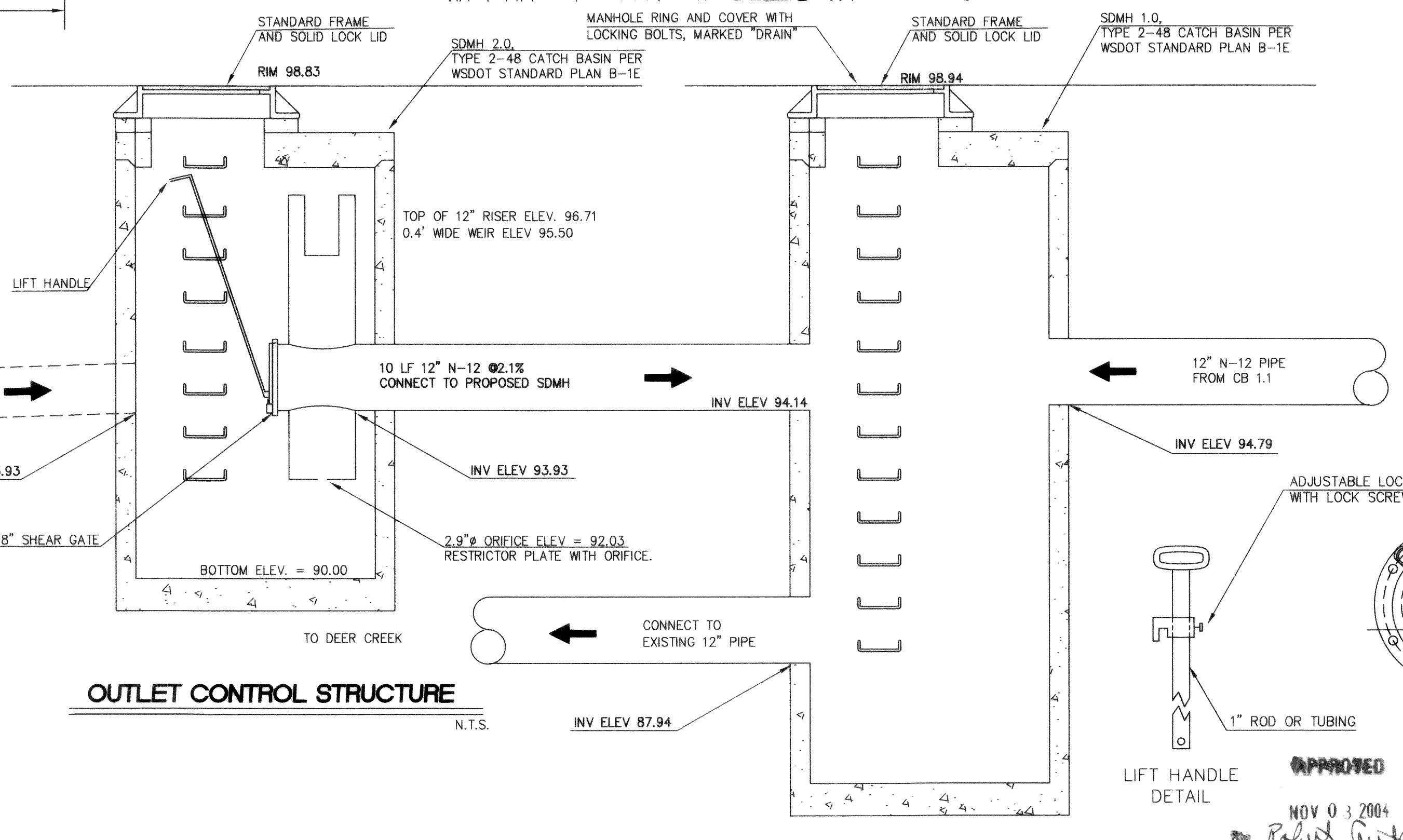
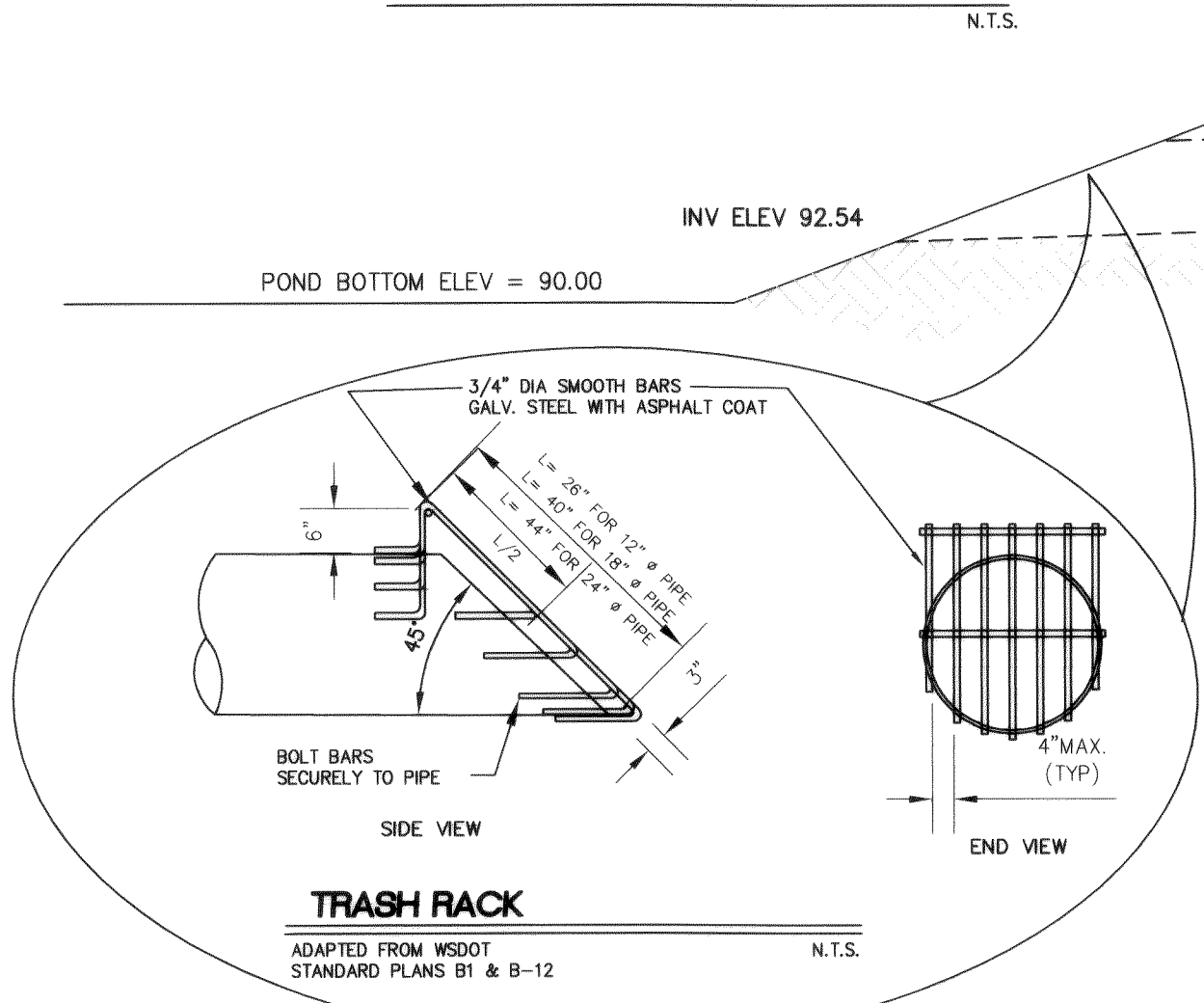
EMBANKMENT KEY DETAIL



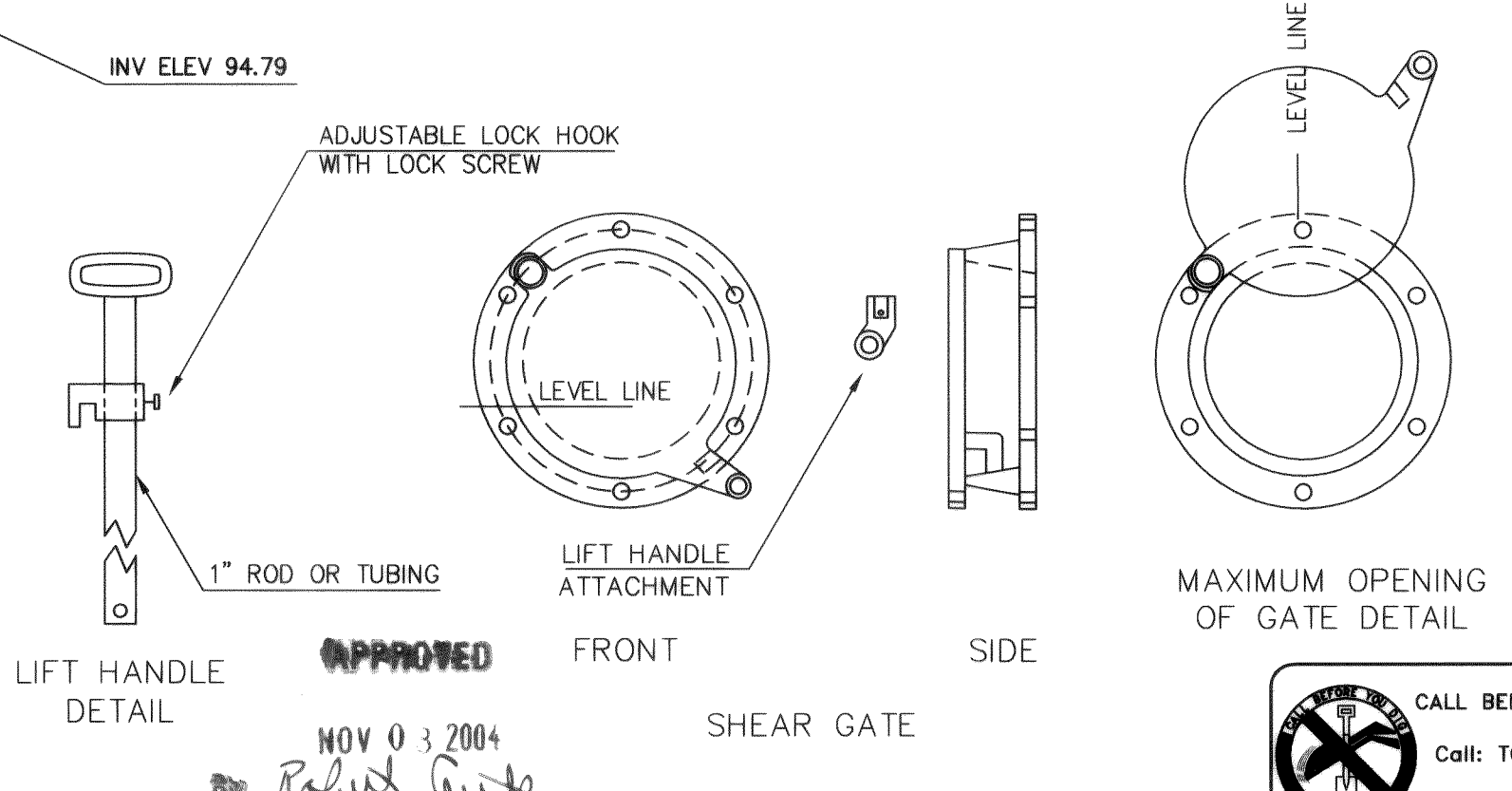
SPECIES	COMMON NAME	NOTES	PLANT LOCATION	MAXIMUM DEPTH OF WATER
ALISM A PLANTAGO-AQUATICA	WATER PLANTAIN		MARGINS OF POND	UP TO 2 FEET
GLYCERIA OCCIDENTALIS	WESTERN MANNAGRASS		MARGINS OF POND	UP TO 2 FEET
SCRIPUS MICROCARPUS	SMALL-FRUITED BULRUSH	WET GROUND TO 18" DEEP	MARGINS OF POND	UP TO 2 FEET
SCRIPUS ACUTUS	HARDSTEM BULRUSH	SINGLE TALL STEMS	SIDES OF BERM	UP TO 3 FEET
NUPHAR POLYSEPALUM	DEEP WATER	DEEP POND	MIDDLE OF POND	3 TO 7.5 FEET
NYMPHAEA ODORATA (1)	WHITE WATERLILY	DEEP POND	MIDDLE OF POND	UP TO 6 FEET

(1) NON-NATIVE SPECIES. NATIVE SPECIES ARE PREFERRED.

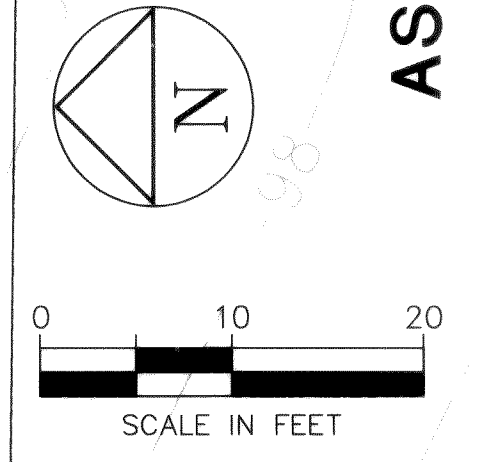
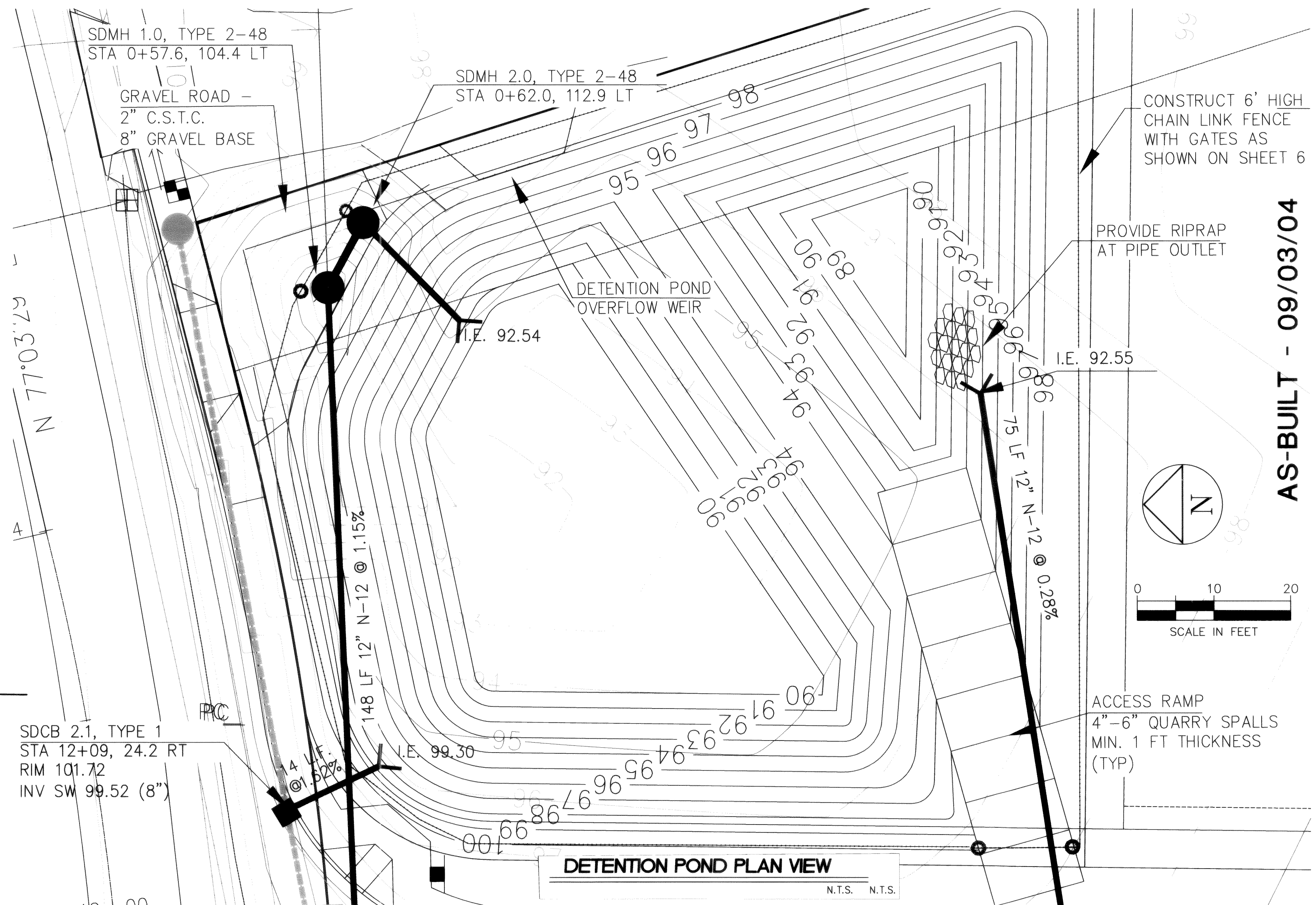
PLANTING SCHEDULE



1. FRAME AND LADDER OR STEPS ARE TO BE OFFSET SO THAT: SHEAR GATE IS VISIBLE FROM THE TOP; CLIMB-DOWN SPACE IS CLEAR OF RISER AND GATE; FRAME IS CLEAR OF CURB.
2. SHEAR GATE SHALL BE MADE OF ALUMINUM ALLOY IN ACCORDANCE WITH ASTM B 26M AND ASTM B 275, DESIGNATION Z632A OR CAST IRON IN ACCORDANCE WITH ASTM A 48, CLASS 30B. LIFT HANDLE MAY BE SOLID ROD OR HOLLOW TUBING WITH ADJUSTABLE HOOK AS REQUIRED. NEOPRENE RUBBER GASKET REQUIRED BETWEEN RISER MOUNTING FLANGE AND GATE FLANGE. MATING SURFACES OF LID AND BODY SHALL BE MACHINED FOR PROPER FIT. FLANGE MOUNTING BOLTS SHALL BE 3/8" DIAMETER STAINLESS STEEL.
3. SHEAR GATE MAXIMUM OPENING SHALL BE CONTROLLED BY LIMITED HINGE MOVEMENT, STOP TAB OR SOME OTHER DEVICE.
4. ALTERNATE SHEAR GATE DESIGNS ARE ACCEPTABLE, IF MATERIAL SPECIFICATIONS ARE MET AND FLANGE BOLT PATTERN MATCHES.



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AS-BUILT - 09/03/04

PIONEER MEADOWS LLC
FERNDALE, WA
PIONEER MEADOWS
DETAIL SHEET
STORM DETENTION POND & DETAILS

PROJECT NUMBER:
PMDW0001
DATE: 11/05/02
DESIGN: CRP/KADE
DRAWN: TEP
CHECKED:
SCALE: AS SHOWN
SHEET NO.

11
OF 14

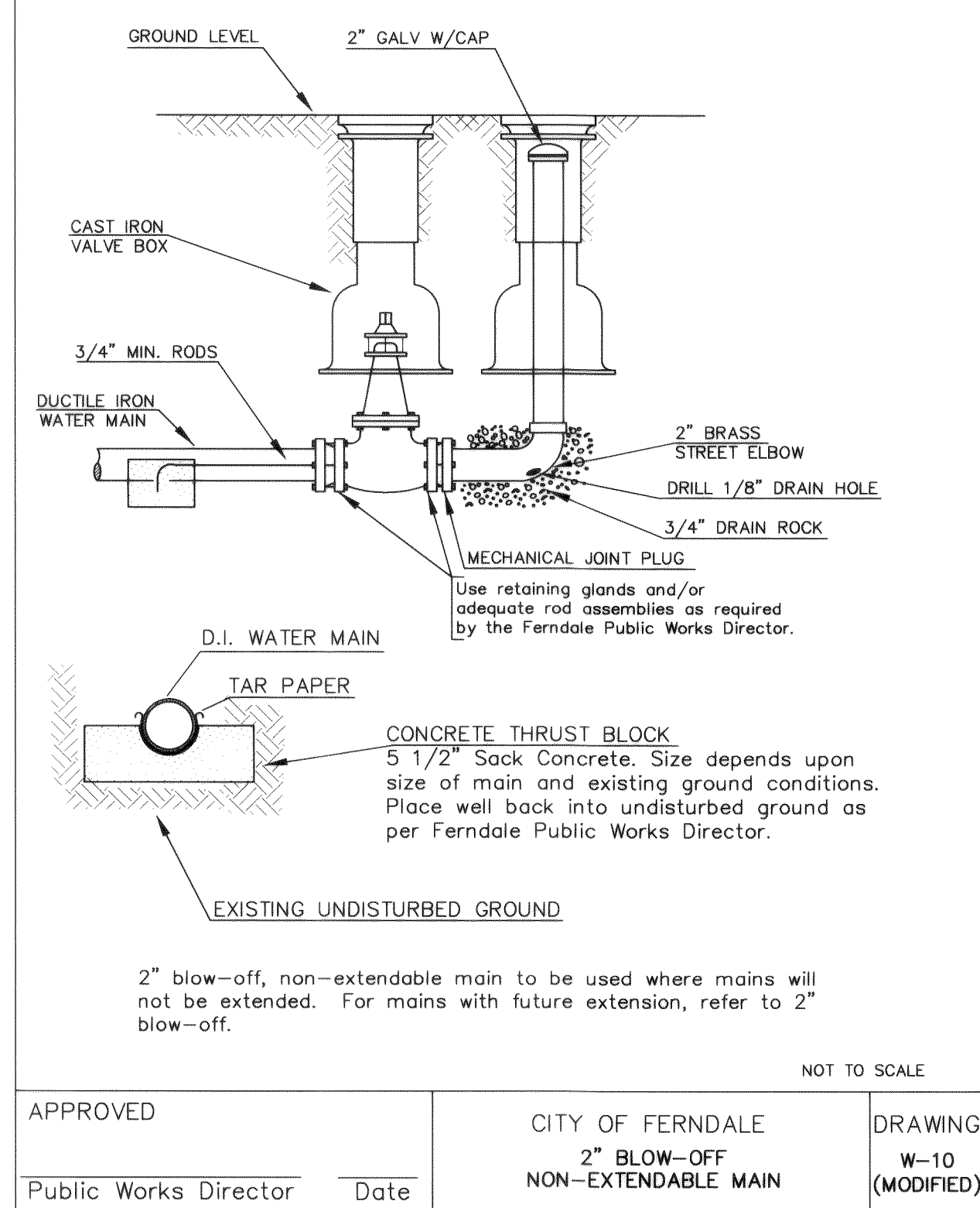
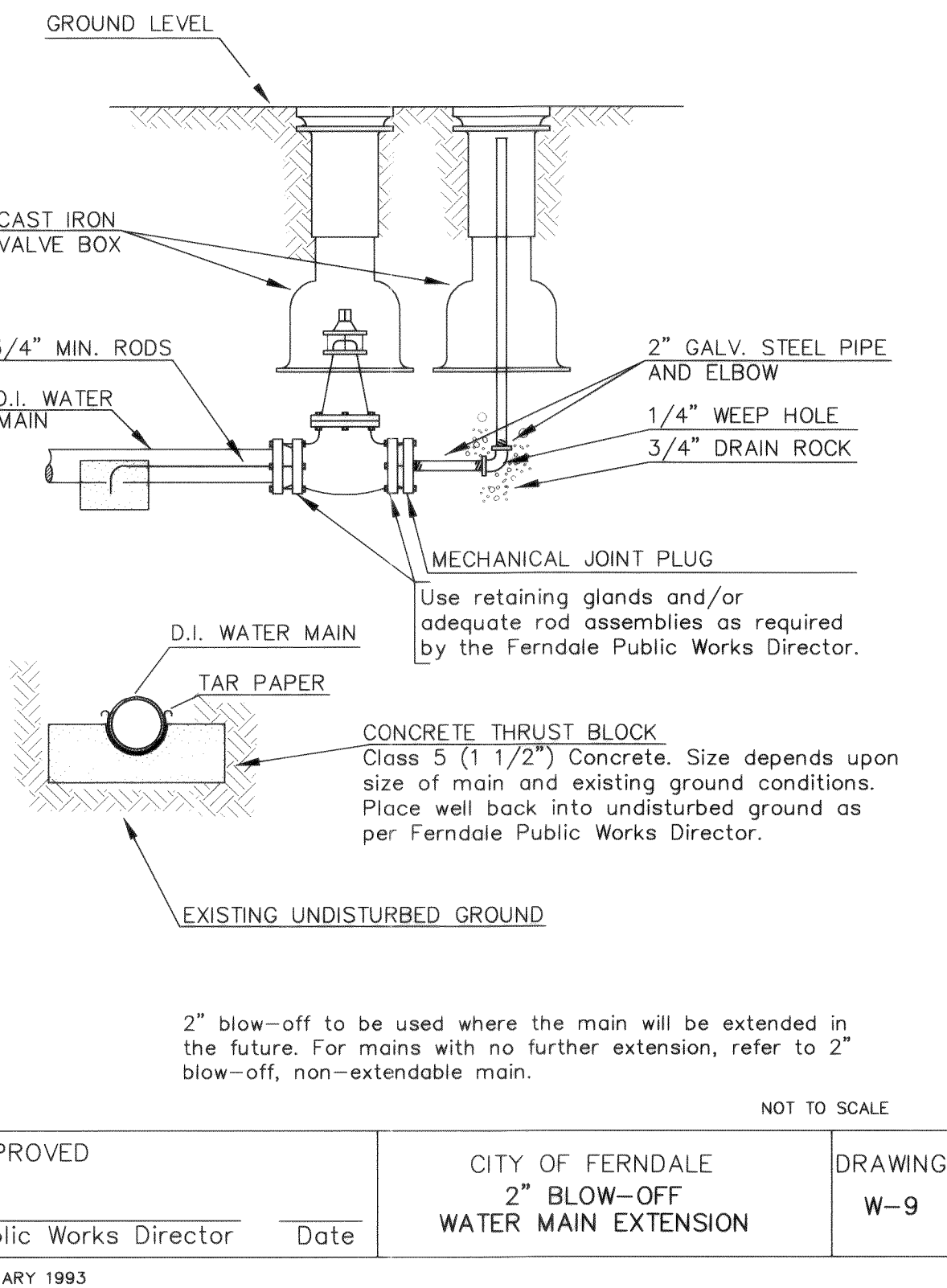
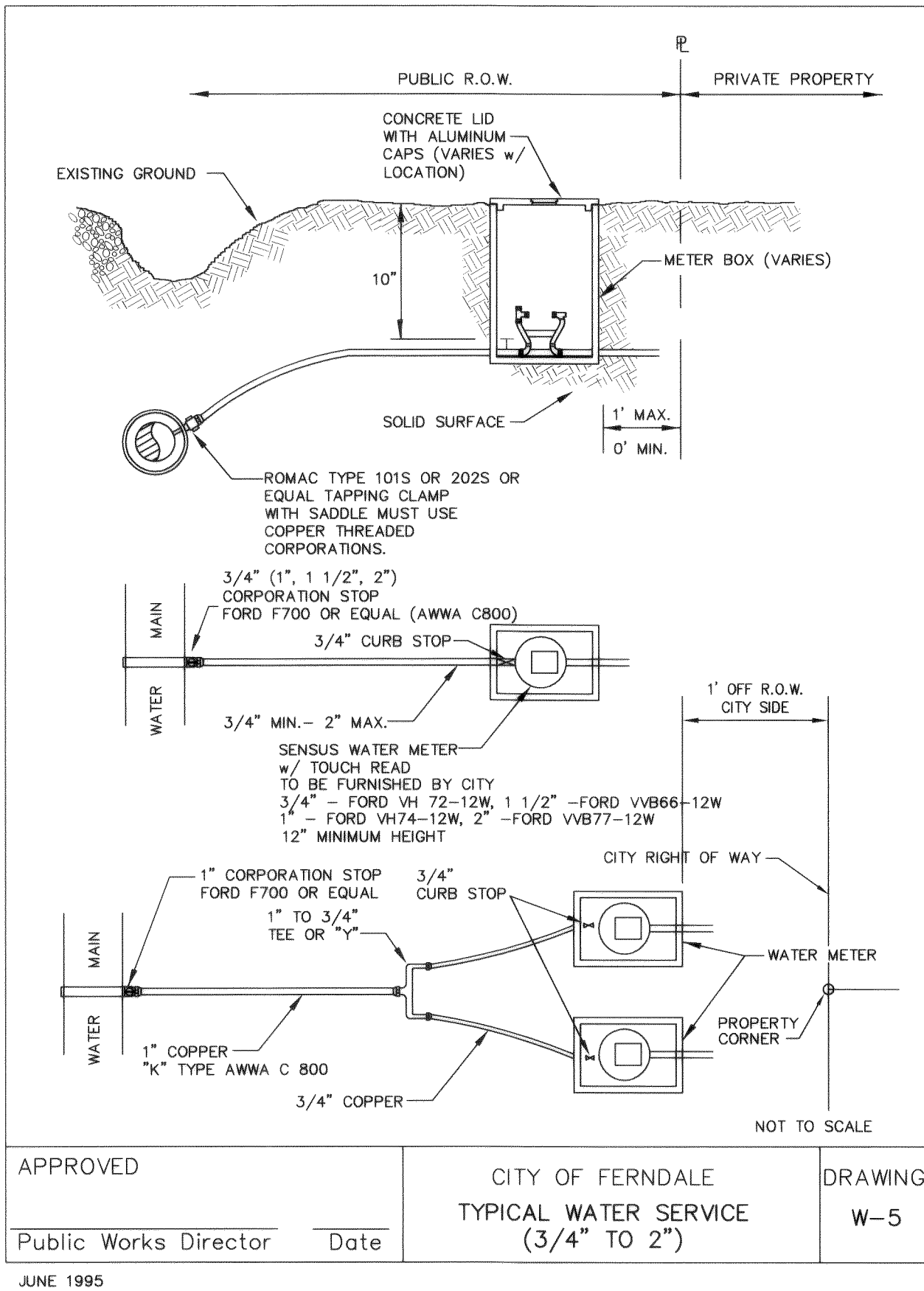
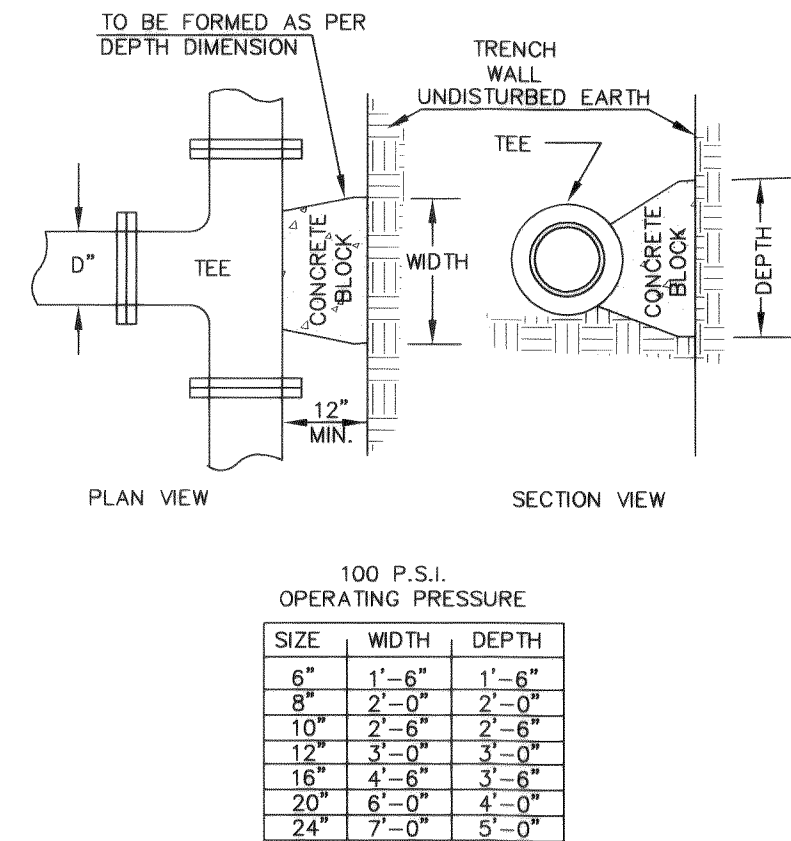
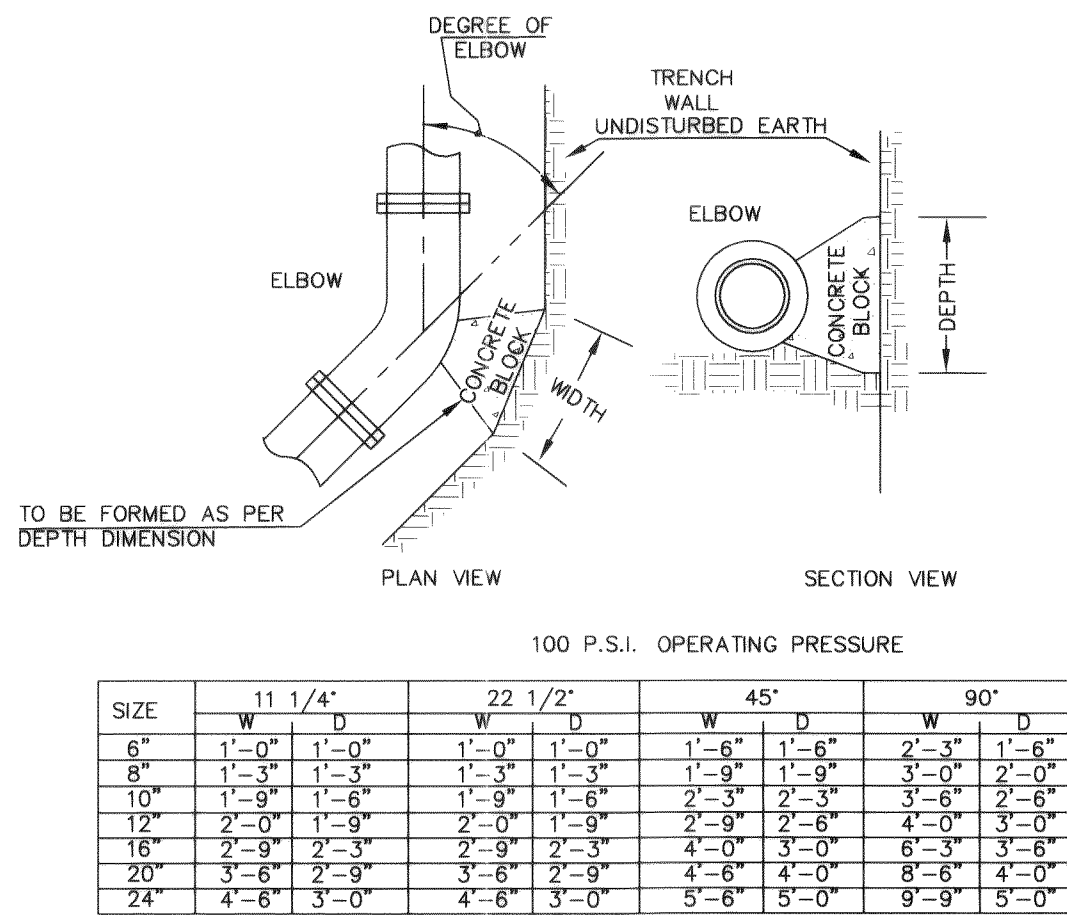
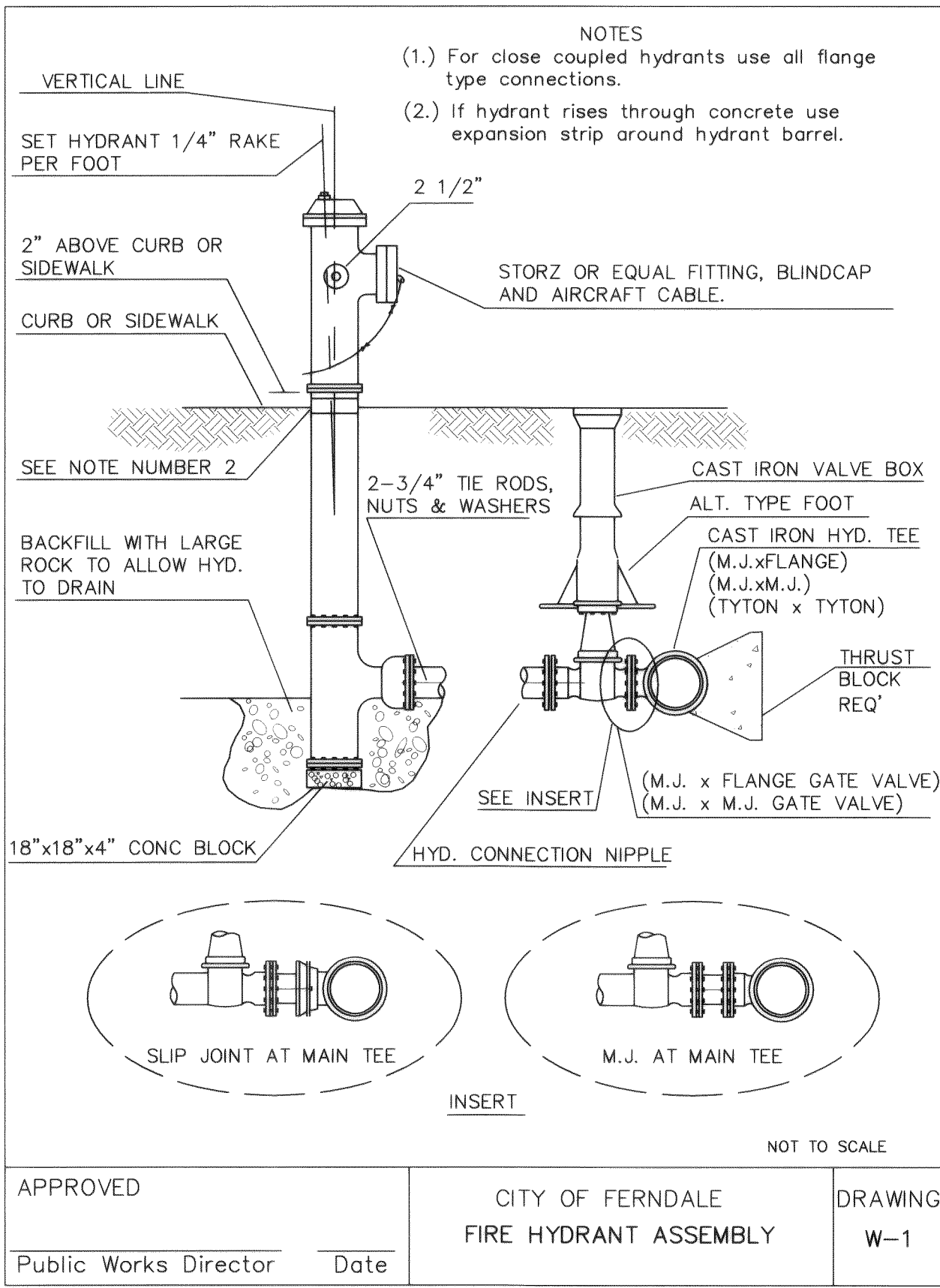
1. COMMENTS PER CITY OF FERNDAL TEP 9-10-02
2. COMMENTS PER CITY OF FERNDAL KAD 12-19-02
NO. REVISIONS: 00156.011 2.13.06
APPD.
EXPIRES 6-30-05

DAVID EVANS AND ASSOCIATES INC.
119 Grand Avenue, Suite D
Bellingham Washington 98225
Phone: 360.647.7151
Fax: 360.647.7150

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CITY OF FERNDALE WATER MAIN SPECIFICATIONS

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SECTIONS 7-08 TO 7-15 AND THE C.O.F. STANDARDS, SECTION 705, AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE.
2. ALL WORK MUST BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF THE CITY OF FERNDALE DEPARTMENT OF PUBLIC WORKS. 24-HOURS NOTICE MUST BE GIVEN PRIOR TO STARTING WORK OR TO SCHEDULE INSPECTIONS.
3. ALL WATER MAIN PIPE SHALL BE DUCTILE IRON, THICKNESS CLASS 50, WITH CEMENT LINING IN ACCORDANCE WITH A.W.W.A. STANDARD H3-71, C151-71, AND CEMENT LINING C104-71; FITTINGS SHALL BE M.J., FLANGED, OR PUSH JOINTS AND SHALL CONFORM TO AWWA SPECIFICATIONS C-110-71 AND C-104-71.
4. PIPE LAYING SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SECTION 7-11. ALL PIPE SHALL HAVE A MINIMUM COVER OF 3.5 FEET.
5. ALL VALVES SHALL BE RESILIENT SEAT GATE VALVES IN ACCORDANCE WITH C.O.F. STANDARDS, SECTION 705.B.3.
6. ALL FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH C.O.F. STANDARDS, DRAWING NO. W-1.
7. ALL BLOW OFFS SHALL BE IN ACCORDANCE WITH C.O.F. STANDARDS, DRAWING NO. W-9 FOR EXTENDABLE MAIN.
8. HYDROSTATIC TESTING AND DISINFECTION OF WATER MAINS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SECTIONS

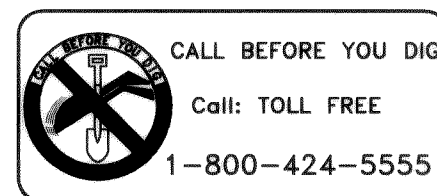


APPROVED

NOV 04 2004

By *Robert W. Kade*

CITY OF FERNDALE



HOMESTEAD
FERNDALE, WA
PIONEER MEADOWS
DETAIL SHEET
WATER

PROJECT NUMBER:

PMDW0001

DATE: 6/04/04

DESIGN: CRP/KADE

DRAWN: TEP

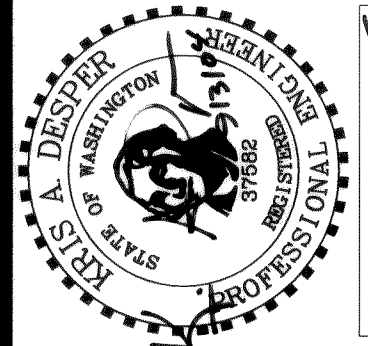
CHECKED:

SCALE: AS SHOWN

SHEET NO.

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OF 14



DAVID EVANS
AND ASSOCIATES INC.

119 Grand Avenue, Suite D
Bellingham Washington 98225
Phone: 360.647.7151
Fax: 360.647.7160

1. COMMENTS PER CITY OF FERNDALE TEP 9-10-02

NO. REVISIONS:

00156.014 2.13.06

APPD.