N.E. 1/4, SEC. 16, TWP. 31 N., RGE. 5 E., W.M.

PHASE II, 82 LOT SUBDIVISION OF
HIGH CLOVER PARK
CITY OF ARLINGTON, WASHINGTON

SCALE: 1" = 300'

0 150 300 600

BENCHMARK:
TOP OF BRASS DISK AT INTERSECTION OF 47TH AVE. N.E. AND 198TH PLACE N.E., ELEV.= 99.70

VERTICAL DATUM:
NAVD 88, CITY OF ARLINGTON

BASIS OF BEARINGS:
SNOHOMISH COUNTY BREAKDOWN, 1929 AND PLAT OF PROSPECT POINT.

NOTE:
THE TOPOGRAPHIC INFORMATION SHOWN ON THE PLANS WAS OBTAINED BY NIES AERIAL MAPPING AND SUPPLEMENTED BY DODDS ENGINEERS, INC.

AREA OF SITE:

PHASE I –	34.80 ACRES
PHASE II –	39.89 ACRES
TOTAL	74.69 ACRES

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1. TITLE SHEET
2. GENERAL NOTES AND ROAD DETAILS
3. GRADING AND EROSION CONTROL PLAN AND NOTES (SOUTH)
4. GRADING AND EROSION CONTROL PLAN AND NOTES (NORTH)
5. EROSION CONTROL DETAILS
6. ROAD & DRAINAGE PLAN (SOUTH)
7. ROAD AND DRAINAGE PROFILES (SOUTH)
8. ROAD DRAINAGE PLAN (NORTH)
9. ROAD AND DRAINAGE PROFILES (NORTH)
10. INFILTRATION OVERFLOW SYSTEM
11. INFILTRATION OVERFLOW SYSTEM
12. INFILTRATION OVERFLOW SYSTEM
13. INFILTRATION OVERFLOW SYSTEM/ROAD STRIPING & SIGNAGE
14. SANITARY SEWER AND WATER PLAN
15. SANITARY SEWER PROFILES
16. SANITARY SEWER PROFILES
17. 198TH PL. N.E. IMPROVEMENT PLAN & PROFILE
18. 198TH PL. N.E. IMPROVEMENT PLAN & PROFILE
19. 198TH PL. N.E. IMPROVEMENT PLAN & PROFILE & DETAILS

L1. LANDSCAPE PLAN
L2. LANDSCAPE PLAN
L3. LANDSCAPE PLAN
L4. LANDSCAPE PLAN
L5. LANDSCAPE PLAN

OWNER/APPLICANT

HIGH CLOVER PARK c/o DODDS ENGINEERS, INC.
4205 148TH AVE. N.E. SUITE 200
BELLEVUE, WA 98007
CONTACT: BRUCE J. DODDS
(206) 885–7877

ENGINEER/SURVEYOR

DODDS ENGINEERS, INC.
4205 148TH AVE. N.E. SUITE 200
BELLEVUE, WA 98007
CONTACT: BRUCE J. DODDS, P.E.
(206) 885–7877

SEWER/WATER

CITY OF ARLINGTON
238 NORTH OLYMPIC
ARLINGTON, WA. 98223
CONTACT: TERRY CASTLE
(206) 435–3811

GAS

CASCADE NATURAL GAS COMPANY
222 FAIRVIEW AVE. NORTH
SEATTLE, WA. 98109
CONTACT: WILLIAM ODELL
(206) 624–7215

POWER

SNOHOMISH COUNTY P.U.D.
210 EAST DIVISION AVE.
ARLINGTON, WA. 98204
CONTACT: LARRY THORTON
(206) 435–5711

TELEPHONE

GTE NORTHWEST
2403 W. CASINO RD.
EVERETT, WA 98204
CONTACT: BOB GARDNER
(206) 356–4061

CABLE T.V.

TCI CABLEVISION
P.O. BOX 185
MARYSVILLE, WA 98270
CONTACT: TOM WETZEL
(206) 659–1285

UNDERGROUND LOCATOR SERVICE

CALL BEFORE YOU DIG!!
1–800–424–5555

LEGAL DESCRIPTION:

That portion of the north half of the northeast quarter of Section 16, Township 31 North, Range 5 East, W.M., in Snohomish County, Washington described as follows:

Commencing at the most southerly corner of Tract 992, in the plat of High Clover Park, as recorded in Volume 60 of plats, pages 106 through 111, records of said county; thence N00°47'10"W, along the west line of said plat, 399.05 feet to a point on the south line of said north half and the TRUE POINT OF BEGINNING of the herein described tract; thence continuing N00°47'10"W 72.99 feet to an angle point in said west line; thence northerly, along the west and north lines of said plat, the following courses and distances; thence N26°45'00"E 324.31 feet to a point on a 605.00 foot radius circular curve to the right, from which point the center of said curve bears N23°21'23"E; thence northwesterly, along said curve, through a central angle of 10°25'27", an arc distance of 110.07 feet to a point of reverse curvature and the beginning of an 1130.00 foot radius circular curve to the left; thence northwesterly, along said curve, through a central angle of 04°36'33", an arc distance of 90.90 feet; thence N09°00'00"E 204.94 feet; thence N03°30'00"E 246.92 feet; thence S88°20'00"W 14.33 feet; thence N01°40'00"W 121.18 feet; thence N12°37'31"W 50.25 feet; thence N07°45'00"W 139.11 feet; thence N00°16'00"W 80.90 feet; thence N88°30'11"E 27.87 feet; thence N85°31'47"E 200.60 feet; thence S86°10'25"E 129.23 feet; thence N89°31'30"E 330.87 feet; thence leaving said north line, N20°25'22"W 41.14 feet to the north line of said northeast quarter; thence S89°44'00"W, along said north line, 1930.00 feet to the easterly right of way margin of 43rd Avenue NE as shown on that certain Record of Survey on file in Book 45 of surveys, pages 138 and 139, under Snohomish County Recording Number 9506265001; thence S00°30'00"E, along said easterly margin, 1286.76 feet to the northeasterly right of way margin of a county road as shown on said Record of Survey; thence S55°01'00"E, along said northeasterly margin, 92.55 feet to the south line of the north half of said Section 16; thence S89°59'20"E, along said south line, 226.45 feet; thence N00°00'40"E 16.59 feet; thence S83°50'03"E 79.33 feet; thence S89°36'51"E 227.44 feet; thence S89°09'38"E 433.98 feet to the south line of said north half; thence S89°59'20"E, along said south line, 182.85 feet to the TRUE POINT OF BEGINNING.

Containing approximately 1,759,814 square feet, or 40.3998 acres, more or less.

NOTE:
THESE HAND DRAWN REVISIONS REFLECT ASBUILT INFORMATION SURVEYED AND DRAFTED BY CASCADE SURVEYING AND ENGINEERING, INC., AND THE LAND SURVEYORS CERTIFICATION EXTENDS ONLY TO THIS NEW ASBUILT INFORMATION.

WILLIAM J. LUND
STATE OF WASHINGTON
19631
REGISTERED PROFESSIONAL LAND SURVEYOR
EXPIRES 3-01-00
5-28-99

AS-BUILT

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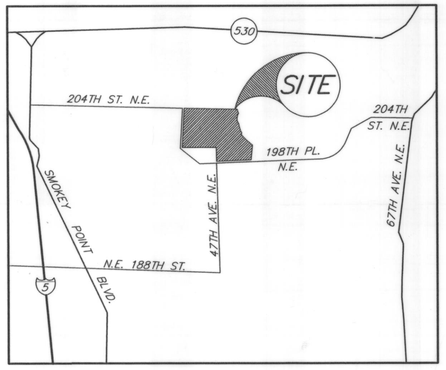


VICINITY MAP
1"=1/2 MILE

NO.	REVISIONS	DATE
1	AS-BUILT	6-7-99

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205–148TH AVE. N.E.– SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885–7877 OR 454–3743

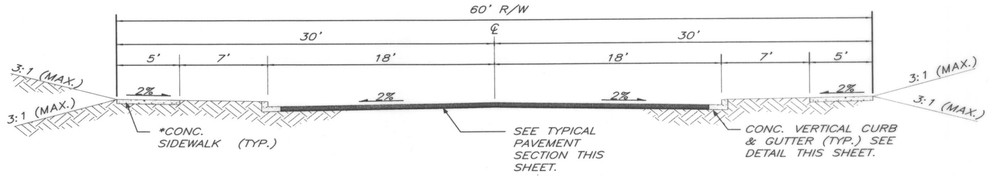
TITLE SHEET
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED
BRUCE J. DODDS, P.E.
PROJECT MANAGER

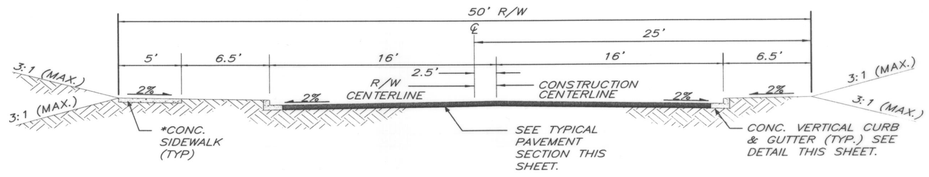
SHEET 1 OF 19

PROJECT NUMBER
90055

P:\DDES\COVER.DWG



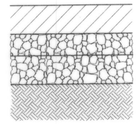
HIGH CLOVER BOULEVARD



LOCAL ACCESS ROADWAYS

TYPICAL ROADWAY SECTIONS

NO SCALE



2" MINIMUM COMPACTED DEPTH CLASS "B" ASPHALT CONCRETE.

4" MINIMUM COMPACTED DEPTH ATB.

3" MINIMUM COMPACTED DEPTH CRUSHED ROCK BASE COURSE.

THE SUBGRADE SHALL BE STRIPPED OF ORGANIC MATERIALS AND UNSUITABLE SOILS. THE TOP SIX INCHES SHALL BE SCARIFIED AND RE-COMPACTED TO 95% OF MAXIMUM DENSITY. AREAS OF SOFT SOILS (AS DETERMINED BY THE GEOTECHNICAL ENGINEER) SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.

HIGH CLOVER BLVD. & LOCAL ACCESS STREETS

TYPICAL PAVEMENT SECTIONS

NO SCALE

GENERAL NOTES

1. All work and materials shall be in accordance with the "Standard Specifications for Road, Bridge, and Municipal Construction," Washington State Department of Transportation and American Public Works Association, Washington State Chapter, 1991 edition, except where modified by the latest edition of the City of Arlington Engineering Standards. Contractor shall acquire the latest edition of the City of Arlington Standards prior to commencing construction.
2. Prior to any construction activity, the contractor shall schedule and attend a pre-construction conference with the city of Arlington Engineering Department. (Phone 435-3811)
3. A copy of these approved plans must be on the job site whenever construction is in progress.
4. All site work improvements shall be constructed in accordance with these approved plans. Any deviation from these plans will require prior approval from the owner, engineer and appropriate public agencies.
5. It shall be the sole responsibility of the contractor to obtain street use and any other related permits prior to any construction activity. Contractor is responsible for arranging for inspections by the city, if inspections are not completed and approval given, then acceptance will not be granted.
6. The Contractor shall be responsible for providing adequate safeguards, safety devices, protective equipment, flaggers, and any other needed actions to protect the life, health, and safety of the public, and to protect property in connection with the performance of work covered by the contract. Any work within the traveled right-of-way that may interrupt normal traffic flow shall require at least one flagger for each lane of traffic affected.
7. All locations of existing utilities shown in these plans have been established by field survey or obtained from available records and should therefore be considered approximate only and not necessarily complete. It is the sole responsibility of the contractor to independently verify the accuracy of all utility locations shown and to further discover and avoid any other utilities not shown hereon which may be affected by the implementation of this plan. The contractor shall contact the Underground Utilities Location Service (1-800-424-5555) at least 48 hours prior to construction. The owner or his representative and the engineer shall be contacted immediately if conflicts exist.
8. The contractor shall keep off-site streets clean at all times by sweeping. Washing of these streets will not be allowed without prior city of Arlington approval.
9. It shall be the sole responsibility of the contractor to arrange relocation or removal of existing utility poles, street lights, traffic signals, etc. by contacting the appropriate utility companies. Refer to the plans for specifics.
10. Preliminary plat approval (mitigation agreement) requires that construction noise occur only from 7 a.m. to 7 p.m. Monday through Saturday.
11. Construction of dewatering (groundwater interception) systems shall be in accordance with the APWA Standard Specifications, Section 61-3.02.
12. All materials shall be approved by the City prior to installation.
13. As-built plans shall be submitted for all developments, short plats, subdivisions, and any other construction relating to the City of Arlington streets and utility systems.

    A Registered Land Surveyor or Professional Engineer shall verify that installation of roads and utilities was in accordance with the approved construction plans, any variance to the plan and profile sheets shall be so noted on the plans and the word "AS-BUILT" with the current date shall be written or stamped on the plans.

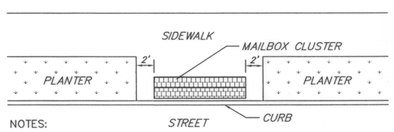
    The "AS-BUILT" plan submittal shall include the following:

    a. Two full size (22" x 34" or 24" x 36") PHOTO MYLARS*, or original mylars, each sheet.

    b. One PHOTO NEGATIVE (8 1/2" x 11"), each sheet.

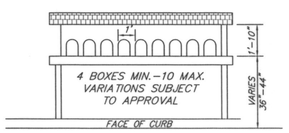
    c. Two separate sets of full size PRINTS for each of the following: water, sewer, storm, streets and traffic (unless otherwise directed by the Engineering Department).

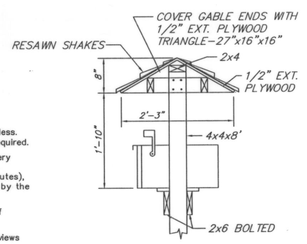
    d. One set of Autocad disks.
14. Construction and improvements shall satisfy all conditions of preliminary plat approval.



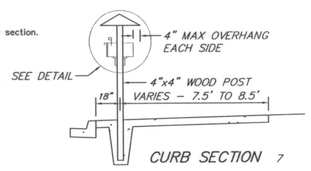
NOTES:

1. For access and subcollector streets where the posted speed limit is 25 MPH or less. For all other streets, mailbox turnouts conforming to std. dwg. 0-150 will be required.
2. Mailbox height varies according to the type of delivery vehicle. Where mail delivery is accomplished by mail trucks ("Mounted" routes), the mailbox heights shall be 44 inches. Where mail delivery is accomplished by passenger vehicle ("Rural" routes), the mailbox height shall be 36 to 38 inches. These heights will be determined by the Postmaster during plan review.
3. Mailboxes must be Postmaster approved with a uniform box style and method of address identification.
4. Locations of mailboxes are subject to approval by the county for protection of views and access.
5. This drawing depicts a minimum structural and dimensional standard. Alternative designs will require approval by the engineer.
6. All wood to be pressure treated Fir or Hemlock.
7. For mailbox cluster location in shoulder section, refer to std. dwg. 0-150, shoulder section.

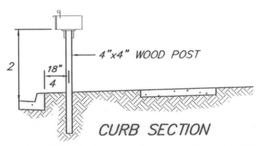




DETAIL



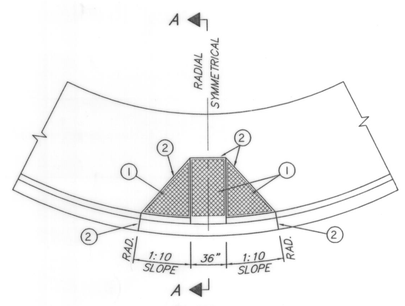
CURB SECTION 7



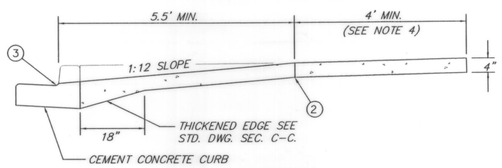
CURB SECTION

MAILBOX DETAILS

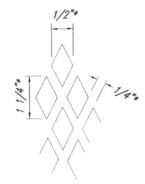
NO SCALE



PLAN



SECTION A-A



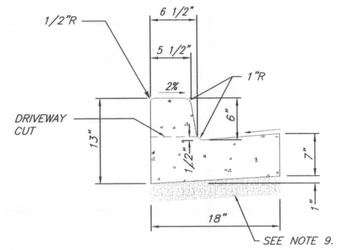
* = NOMINAL DIMENSIONS

RAMP TEXTURE DETAIL

1. RAMP TEXTURE IS TO BE DONE WITH AN EXPANDED METAL GRATE PLACED AND REMOVED FROM WET CONCRETE TO LEAVE A DIAMOND PATTERN. THE LONG AXIS OF THE DIAMOND SHALL BE PERPENDICULAR TO CURB. GROOVES SHALL BE 1/8" DEEP AND 1/4" WIDE.
2. 3/8" EXPANSION JOINT
3. 1/2" MAXIMUM LIP AT GUTTER LINE
4. IF LANDING AREA IS LESS THAN 4', DECREASE SIDE RAMP SLOPE TO 12:1 (HORIZ. : VERT.).
5. CURB RAMPS WILL NOT BE POURED INTEGRAL WITH SIDEWALK AND SHALL BE ISOLATED BY EXPANSION JOINT MATERIAL ON ALL SIDES, BUT NOT AT END OF RAMP ADJACENT TO ROADWAY.

WHEEL CHAIR RAMP DETAIL

NO SCALE



1. FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED.
2. DUMMY JOINTS SHALL BE PLACED ON 15 FOOT CENTERS. DUMMY JOINTS SHALL BE 1/2" x 1 1/2".
3. THRU JOINTS SHALL BE PLACED ADJACENT TO CATCH BASINS, INLETS AND AT POINTS OF TANGENCY ON STREETS, ALLEY AND DRIVEWAY RETURNS. MAXIMUM SPACING SHALL BE 30 FEET. PRE-MOLDED JOINT FILLER SHALL BE 1/2" WIDE AND CONFORM TO AASHTO DESIGN M213.
4. ALL JOINTS SHALL BE CLEAN AND EDGED.
5. CONCRETE SHALL BE CEMENT CONCRETE, CLASS 3000.
6. STEEL FORMS ONLY SHALL BE USED ON TANGENT SECTIONS. WOOD FORMS MAY BE USED ON CURVED SECTIONS.
7. FINISH SHALL BE LIGHT BROOM FINISH.
8. THE FINISHED CURB SHALL BE SPRAYED WITH A TRANSPARENT CURING COMPOUND AND COVERED BY WATERPROOF PAPER OR PLASTIC MEMBRANE IN THE EVENT OF RAIN OR OTHER UNSUITABLE WEATHER. CURING TIME SHALL BE A MINIMUM OF 72 HOURS.
9. ALL CURB AND GUTTER SHALL BE PLACED ON A MIN. OF 2" OF CRUSHED SURFACING TOP COURSE.
10. DUMMY JOINT 1/2" x 1 1/2" BETWEEN A-1 CURB AND GUTTER AND THE SIDEWALK.

VERTICAL CURB DETAIL

NO SCALE

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
SIGNATURE — DATE 11/19/97 — 3/1/99

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NO.	REVISIONS	DATE

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E. - SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 OR 454-3743

BRUCE J. DODDS — EXPIRES 9-4-98

GRADING DETAILS
HIGH CLOVER PARK, DIV. 2

HIGH CLOVER PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED
BRUCE J. DODDS, P.E.
PROJECT MANAGER

SHEET 2 OF 19

PROJECT NUMBER 90055

PHDES\GRDETAIL.DWG

N.E. 1/4, SEC. 16, TWP. 31 N., RGE. 5 E., W.M.

WASHDOWN PAD

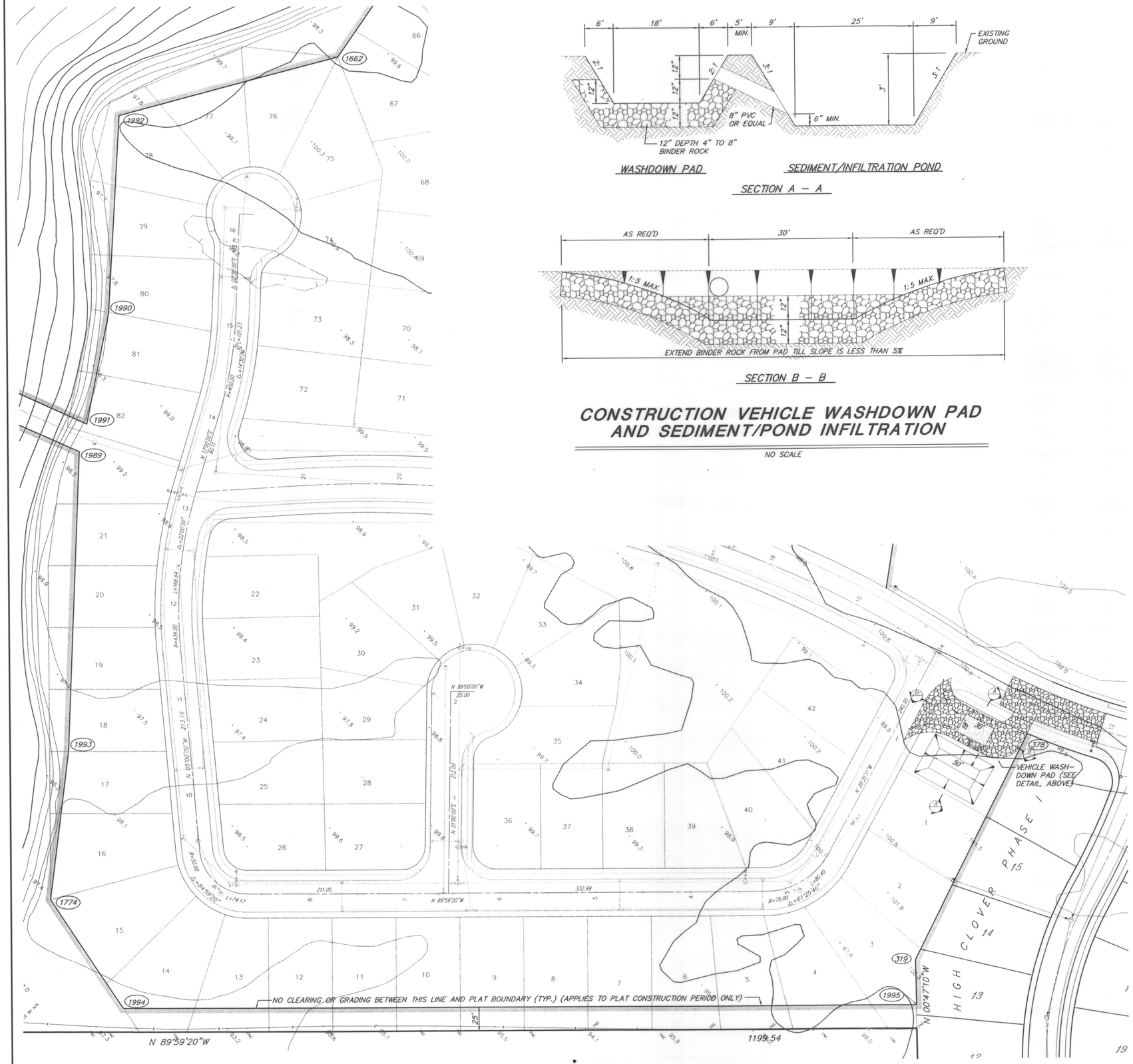
SEDIMENT/INFILTRATION POND

SECTION A – A

SECTION B – B

CONSTRUCTION VEHICLE WASHDOWN PAD AND SEDIMENT/POND INFILTRATION

NO SCALE



LEGEND

FILTER FABRIC FENCE	x—x—x
SEDIMENTATION/DISPERSION TRENCH	
CONSTRUCTION ACCESS	
CLEARING LIMIT(S)	(CLEARING ALLOWED THIS SIDE OF LINE ONLY)
CONSTRUCTION SEQUENCE	(2)
EXISTING GROUND ELEV.	+ 100.5
CLEARING LIMIT COORDINATE POINT NO.	(1661)

GRADING NOTES

1. The facilities shown on the Erosion/Sedimentation Control Plans shall be constructed/implemented prior to any extensive grading or land clearing in accordance with that plan. These facilities must be satisfactorily maintained until construction and landscaping is completed.
2. Grading into areas outside of this property is subject to the written consent of adjoining property owners. The contractor shall verify the status of the adjoining property owner's consent by contacting the developer prior to performing work outside of project boundaries.
3. No structures, fill, or obstructions shall be placed within the 25-year flood plain or stream bank protection easement unless specifically shown on these plans.
4. The recommendations provided in the soils report #943-1514 prepared by Golder Associates, dated June 10, 1994, are incorporated herein by reference. Conflicts between the soils report and this design will be resolved by the engineer.
5. No final grade cut or embankment slope shall exceed 2:1 (horiz:vert) without stabilization.
6. Where berming, filling, or other grading occurs within the dripline of any tree denoted on these plans to be saved, the grading contractor shall exercise special care to assure that this work does not result in the demise of the tree. Techniques such as rockeries, tree protection fences, or other methods recommended by the landscape architect shall be employed.
7. All earthwork under paving to be used by vehicular traffic and under concrete sidewalks shall be compacted to at least 95% of the maximum dry density per A.S.T.M. D-1557-78 (Modified Proctor).
8. Major exposed, graded slopes shall be protected by clear plastic sheeting or similar approved method until such time as the vegetative cover has been established sufficiently to inhibit erosion.
9. Any open cuts of existing public roadways shall be backfilled and compacted in accordance with city of Arlington Standards. All cuts into existing asphalt shall be along neat, continuous, sawed lines. A temporary cold mix patch shall be placed immediately after backfill and compaction. The existing surfacing must be replaced in kind or 3 inches of compacted Class "B" asphalt concrete, whichever is greater.

NOTES:

(1) SELECTED TREES AND UTILITY (STORM DRAINAGE) COORIDOR (30') TO BE CLEARED IN THIS AREA. SEE SHEET C10 FOR DETAILS.

CLEARING LIMIT COORDINATES

POINT NO.	N	E
380	9301.4088	11328.8157
1720	9501.4585	11360.5005
601	9750.2823	11375.9493
598	9749.8656	11361.6263
600	9870.9904	11358.1019
597	9920.8989	11346.9993
596	10057.8711	11328.3582
1627	10057.5875	11263.3589
1629	10027.8576	11193.3196
1631	9966.1999	11100.1650
1633	9932.7286	11066.3865
1660	9978.1571	10966.7029
1661	9935.9696	10809.2570
1662	9862.2459	10757.6351
1992	9801.2034	10527.2457
1990	9595.2457	10514.7019
1991	9478.3776	10490.9074
1987	9540.8591	10352.5409
1988	9513.0562	10339.4300
1989	9449.4731	10482.7755
1993	9134.5354	10469.1430
1774	8978.4857	10449.1430
1994	8863.9709	10524.9386
1995	8863.8090	11357.8932
319	8911.7898	11356.8871
378	9147.7280	11475.8097

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SCALE: 1" = 50'

0 25 50 100

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON

SIGNATURE DATE 11/19/97 3/1/99

NO.	REVISIONS	DATE

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E. – SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 OR 454-3743

GRADING & EROSION CONTROL PLAN
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER LTD. PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN T.L. WALKER
APPROVED BRUCE J. DODDS, P.E. PROJECT MANAGER

SHEET 3 OF 19

PROJECT NUMBER 90055

PH2DES\ECPLAN-S.DWG

N.E. 1/4, SEC. 16, TWP. 31 N., RGE. 5 E., W.M.

CLEARING LIMIT COORDINATES

POINT NO.	N	E
380	9301.4088	11328.8157
1720	9501.4585	11360.5005
601	9750.2823	11375.9493
598	9749.8656	11361.6263
600	9870.9904	11358.1019
597	9920.8989	11346.9993
596	10057.8711	11328.3582
1627	10057.5875	11263.3589
1629	10027.8576	11193.3196
1631	9966.1999	11100.1650
1633	9932.7286	11066.3865
1660	9978.1571	10966.7029
1661	9935.9696	10809.2570
1662	9862.2459	10757.6351
1992	9801.2034	10527.2457
1990	9595.2457	10514.7019
1991	9478.3776	10490.9074
1987	9540.8591	10352.5409
1988	9513.0562	10339.4300
1989	9449.4731	10482.7755
1993	9134.5354	10489.1430
1774	8978.4857	10449.1430
1994	8863.9709	10524.9386
1995	8863.8090	11357.8932
319	8911.7898	11356.8871
378	9147.7280	11475.8097

EROSION/SEDIMENTATION CONTROL NOTES

1. Approval of this plan is for the erosion/sedimentation control facilities only. It does not constitute an approval of the storm drainage design, nor size or location of pipes, restrictors, channels or detention facilities.
2. All limits of clearing and areas of vegetation preservation, as prescribed on these plans, shall be clearly flagged in the field and observed during construction. Special protective fencing is required in certain areas, refer to plans.
3. All required erosion/sedimentation control facilities must be constructed and in operation prior to any land clearing and/or other construction to insure that sediment-laden water does not enter the natural drainage system or damage downstream properties. All erosion/sedimentation control facilities shall be maintained in a satisfactory condition until such time that clearing and/or construction is completed and the potential for on-site erosion has passed. Implementation, maintenance, replacement and additions to the erosion/sedimentation control facilities shall be the responsibility of the permittee.
4. The erosion/sedimentation control facilities depicted on this drawing are intended to be minimum requirements to meet anticipated site conditions. As construction progresses and unexpected or seasonal conditions dictate, the permittee should anticipate that more erosion/sedimentation control facilities may be necessary to insure complete siltation control on the site. During the course of construction, it shall be the obligation and responsibility of the permittee to address any new conditions that may be created by his activities and to provide additional facilities, over and above minimum requirements shown, as may be needed to protect adjacent properties and the water quality of the receiving drainage system. The city of Arlington inspector may determine the need for and extent of any additional facilities.
5. Where possible, natural vegetation shall be maintained for silt control and to minimize erosion.
6. All temporary stockpiles and any area which has been stripped of vegetation, and where no further work is anticipated for a period of 30 days or more or where the City Engineer determines there exists a potentially severe erosion of sedimentation hazard, shall be stabilized with mulching, grass seeding or other approved erosion control treatment applicable to the time of year. Grass seeding alone will be acceptable only during the months of April through September inclusive. Seeding may proceed whenever it is in the interest of the permittee, but must be augmented with mulching, netting, or other city of Arlington-approved treatment outside the months specified. Straw mulch shall consist of a minimum thickness of two inches spread evenly over the surface to be protected. Netting may be required to hold mulch in place on steep slopes. Grass seeding shall be accomplished through the use of a city of Arlington-approved hydroseeder and seed mixture or through placement of an acceptable sod.
7. All areas to be seeded shall be cultivated to the satisfaction of the engineer and landscape architect. For seeding specifications and other landscaping details, see the landscape plan.
8. A minimum 3 foot high temporary fence shall be constructed around any pond fused or erosion/ sedimentation control where it can be expected that the water depth will exceed one foot.
9. Siltation control areas shall be returned to original ground conditions or brought to finish grade at the project's completion. Any permanent storm drainage facilities used for erosion/ sedimentation control shall be flushed and pumped clean prior to project acceptance.

CONSTRUCTION SEQUENCE

1. Arrange for and attend pre construction conference with City of Arlington Public Works Department . (tel. (360) 435-3811).
2. Flag clearing limits and trees within clearing limits to be saved.
3. Install rock construction entrance per sheet 3.
4. Construct vehicle washdown pad per detail sheet 3.
5. Install filter fences where shown west of lot 82 and as required by City of Arlington at locations not shown on plan pending soil, grading and weather conditions.
6. Clear and grub site, stockpile topsoil as necessary on lots 70-73, rough grade per grading plan for lots and roads.
7. Install emergency stormwater outfall at Portage Creek and conveyance/infiltration system from outfall - SDMH 13 - 12, 11, 10 and 9 since this system is lower than all other utilities. Install remaining utilities. Protect all entrances to stormwater conveyance and infiltration system per details on sheet 5. Install fabric bag inserts in all CB's with open grates and maintain as required.
8. Install all curb, gutter and sidewalks, fine grade roads and pave. Maintain CB inserts for infiltration system protection.
9. Hydroseed/mulch/install turf as required per landscape plans.
10. Clean stormwater CB's and pipes of all collected siltation.
11. Restore construction vehicle washdown pad and pond to grade and construct play area in park.
12. Remove all TESCP facilities, replace all CB sediment bags in public road CB's, open infiltration system to public road in flow.

LEGEND

FILTER FABRIC FENCE	x—x—x
SEDIMENTATION/DISPERSION TRENCH	
CONSTRUCTION ACCESS	
CLEARING LIMIT(S)	(CLEARING ALLOWED THIS SIDE OF LINE ONLY)
CONSTRUCTION SEQUENCE	(2)
EXISTING GROUND ELEV.	+ 100.5
CLEARING LIMIT COORDINATE POINT NO.	(1661)

SCALE: 1" = 50'

0 25 50 100

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
SIGNATURE DATE 11/19/97

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NO.	REVISIONS	DATE

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E. - SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 OR 454-3743

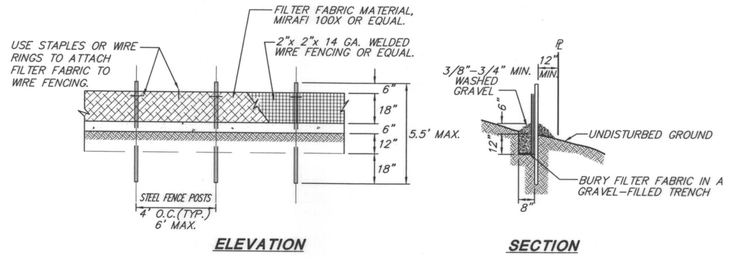
GRADING & EROSION CONTROL PLAN
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER LTD. PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

DATE MAY 1994
DESIGNED B.J. DODDS
DRAWN T.L. WALKER
APPROVED BRUCE J. DODDS, P.E. PROJECT MANAGER

SHEET 4 OF 19

PROJECT NUMBER 90055

PH2DES\EOCPLAN-N.DWG



ELEVATION

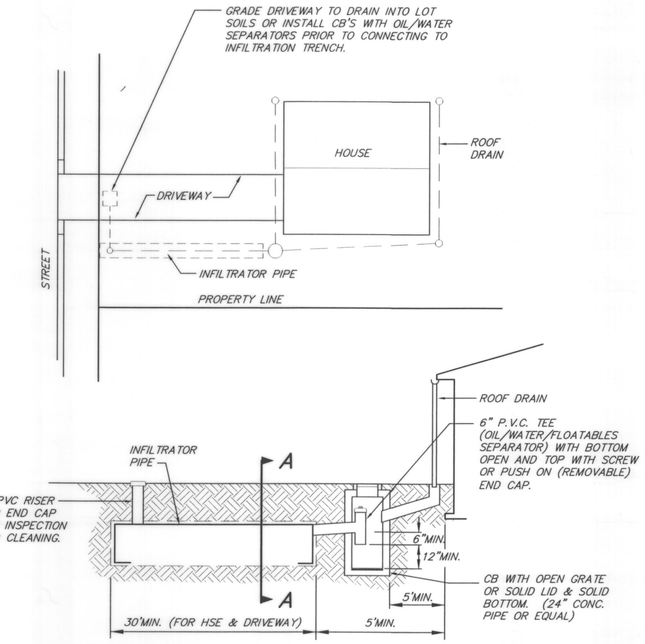
SECTION

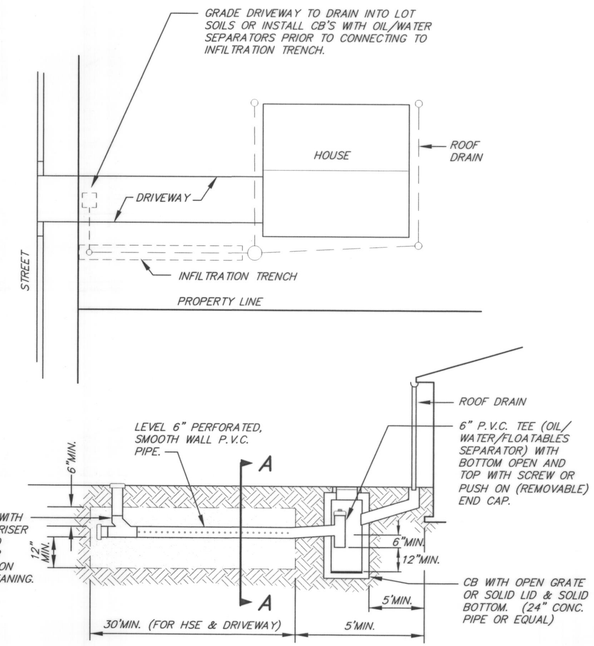
NOTES

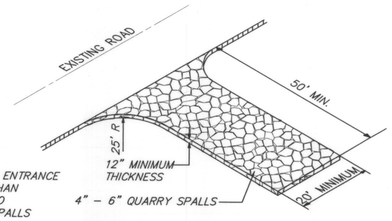
1. The filter fabric shall be purchased in a continuous roll, cut to the length of the barrier to avoid use of joints. When joints are necessary, the filter cloth shall be spliced together only at a support post, with a minimum 6-inch overlap, and both ends securely fastened to the post.
2. The filter fabric fence shall be installed to follow the contours (where possible). The fence posts shall be placed a maximum of 6 feet apart and driven securely into the ground (minimum of 30 inches).
3. A trench shall be excavated, roughly 8 inches wide and 12 inches deep, upslope and adjacent to the post to allow the filter fabric to be buried.
4. When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy-duty wire staples at least 1 inch long, tie wires or hog rings. The wire shall extend into the trench a minimum of 4 inches and shall not extend more than 36 inches above the original ground surface.
5. The Standard Strength filter fabric shall be stapled or wired to the fence, and 20 inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36 inches above the original ground surface. Filter fabric shall not be stapled to existing trees.
6. When extra-strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of Standard Note 5 applying.
7. The trench shall be backfilled with 3/4-inch minimum diameter washed gravel.
8. Filter fabric fence shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.
9. Filter fabric shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.

FILTER FABRIC FENCE DETAIL

NO SCALE



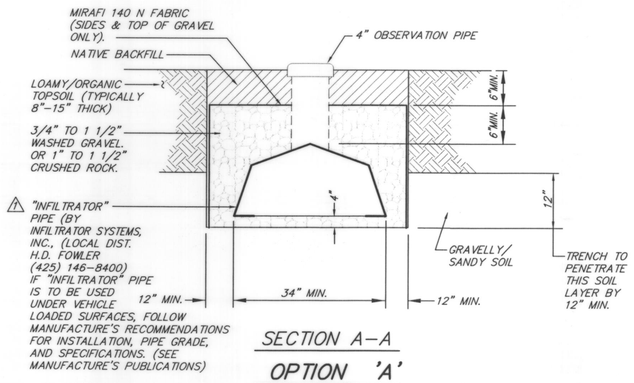




NOTE: GRADE THE ENTRANCE AREA 12" LOWER THAN SUBGRADE PRIOR TO PLACING QUARRY SPALLS

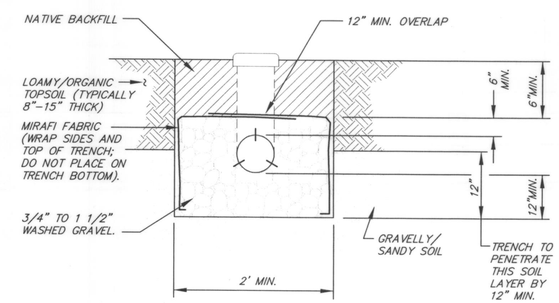
TEMPORARY CONSTRUCTION ACCESS

NO SCALE



SECTION A-A

OPTION 'A'

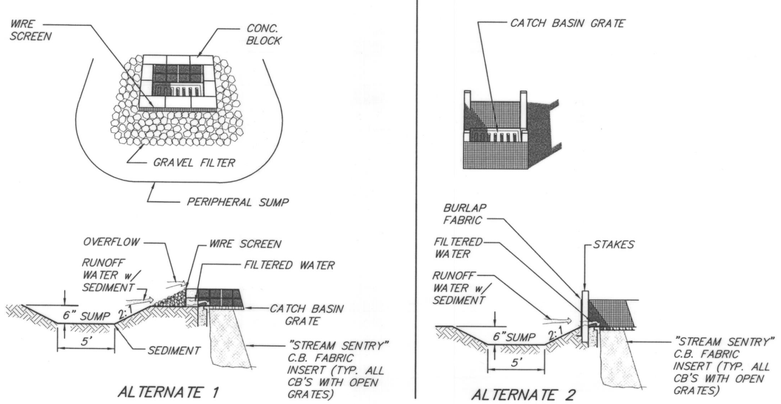


SECTION A-A

OPTION 'B'

SINGLE LOT INFILTRATION SYSTEMS

NO SCALE



INLET SUMP / FILTER DETAIL

NO SCALE

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
SIGNATURE DATE 3/1/99

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NO.	REVISIONS	DATE
1	REVISED NOTE ON OPTION A	1/29/99

BRUCE J. DODDS STATE OF WASHINGTON 14830 REGISTERED PROFESSIONAL ENGINEER
9-4-98
EXPIRES

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E. - SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 OR 454-3743

EROSION CONTROL DETAILS
HIGH CLOVER PARK, DIV. 2

HIGH CLOVER PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

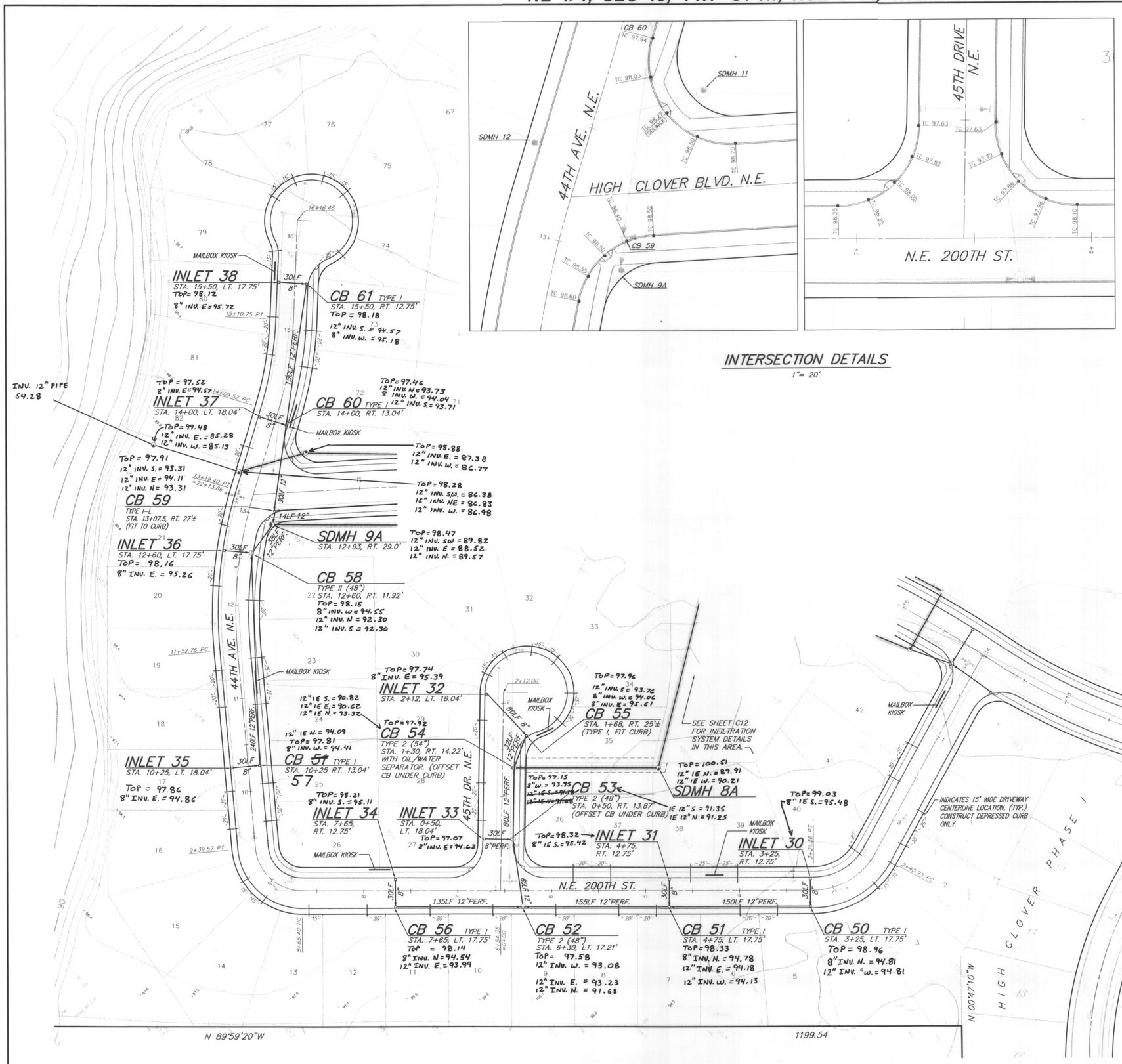
DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED BRUCE J. DODDS, P.E. PROJECT MANAGER

SHEET 5 OF 19

PROJECT NUMBER 90055

PH:DOES\ECDETAIL.DWG

NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.



INTERSECTION DETAILS

1"= 20'

STORM DRAINAGE NOTES

1. All storm drainage structures, as designated in the plans, shall be one of the following:
   a. Yard drain – Associated Sand and Gravel CB–10, or equal.
   b. Inlet – W.S.D.O.T. Standard Plan B–26, or equal.
   c. Type 1 catch basin – W.S.D.O.T. Standard Plan B–1, or equal.
   d. Type 1–L catch basin – W.S.D.O.T. Standard Plan B–1a, or equal.
   e. Type 2–(48") or (54") catch basin – W.S.D.O.T. Standard Plan B1e, or equal.
   f. Special catch basins or drainage structures shall be as detailed in these plans.

   Note: all unit covers shall be per APWA standards and all structures deeper than five feet (rim to invert) shall be Type II and equipped with manhole steps or a manhole ladder, per APWA standards.
2. All frames, grates and/or solid covers shall be cast iron or ductile iron and shall meet city of Arlington standards.
   a. Arlington standard frame and grate SS–5 – APWA Standard Plan 49, Olympic Foundry Co. No. SM50 and SM50G, or equal.
   b. Arlington standard self–locking vaned grate SS–6 – Olympic Foundry Co. No. SM50–54 or equal.
   c. Thru–curb inlet frame and grate – Olympic Foundry Co. No. SM52.
   e. Solid, locking, rectangular cover – Olympic Foundry Co. No. SM50S or equal.
   f. Solid, locking, round cover – Olympic Foundry Co. No. MH30D/T or equal.

   Note: All solid covers shall be marked "Drain." All grates shall be marked "Outfall to Groundwater – Dump no pollutants."
3. All storm drain pipe shall be P.V.C. unless otherwise approved by the City of Arlington and specified in the plans. All pipe joints must be gasketed and of the same material as the pipe. All pipe shall have a minimum cover of 12" and adequately protected during construction:
   a. PVC 4" through 15" diameter pipe with 18" to 36" of cover shall be ASTM D3034 SDR 21. 4" through 15" diameter pipe, with over 36" of cover shall be in accordance with ASTM D3034, SDR 35. All joints shall be push–on with rubber gaskets.
   b. Ductile Iron 4" through 12" diameter pipe shall be Class 52 in accordance with ANSI Standard A–21.10 (AWWA C–151). All joints shall be tyton, mechanical, or flanged.
   c. Concrete 4" through 15" diameter pipe shall be non–reinforced, bell and spigot with rubber gasket joints, conforming to ASTM C–14 (Class II).
   d. Helical corrugated aluminum pipe (CMP) 6" through 18" diameter shall be 16 gauge with 2–2/3" x 1/2" corrugations.
   e. Corrugated high density polyethylene pipe (CPEP) 8" through 15" diameter shall be in accordance with AASHTO M–294, as supplied by Advanced Drainage Systems designated N–12, or equal.
4. All pipe shall be laid on a properly prepared foundation according to the 1984 Standard Specifications for Road, Bridge and Municipal Construction Sec. 7–02.3(1). This shall include necessary leveling of the trench bottom or the top of the foundation material as well as placement and compaction of required bedding material to uniform grade so that the entire length of the pipe will be supported on a uniformly dense unyielding base. If the native material in the bottom of the trench meets the requirements for "gravel backfill for pipe bedding," the first lift of pipe bedding may be omitted, provided the material in the bottom of the trench is loosened, regraded and compacted to form a dense unyielding base.
5. All trench backfill in areas of future pavement or structural loading shall be compacted to at least 95% of the maximum dry density per ASTM D 1557–70 (Modified Proctor).
6. Prior to occupancy, the permanent storm drainage system must be cleaned by flushing and pumping sediments from all catch basin sumps.

SCALE: 1" = 50'

0 25 50 100

AS-BUILT

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
3/1/99
SIGNATURE DATE

WILLIAM J. LI... STATE OF WASHINGTON 19631 REGISTERED PROFESSIONAL LAND SURVEYOR
EXPIRES 3-01-00

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NO.	REVISIONS	DATE
1	AS-BUILT	6-9-99

DODD ENGINEERING BRUCE J. DODDS STATE OF WASHINGTON 12827 REGISTERED PROFESSIONAL ENGINEER
DATE 9-4-98

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205–148TH AVE. N.E. – SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885–7877

ROAD AND DRAINAGE PLAN
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

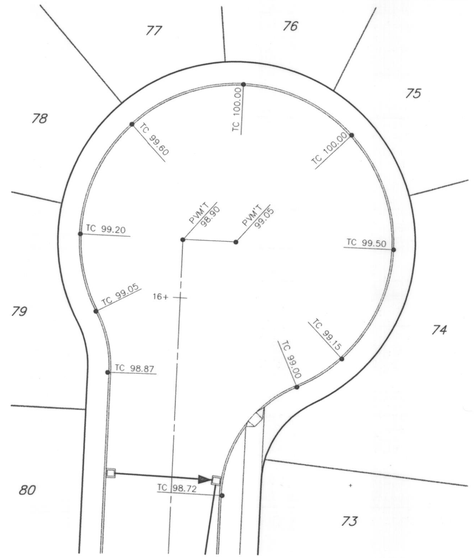
DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WICHT
APPROVED
BRUCE J. DODDS, P.E.
PROJECT MANAGER

SHEET	OF
6	19

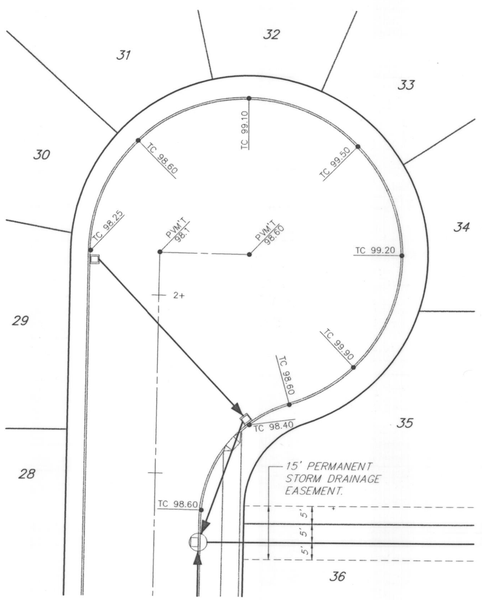
PROJECT NUMBER
90055

PH2DES1\SDPLAN-1.DWG

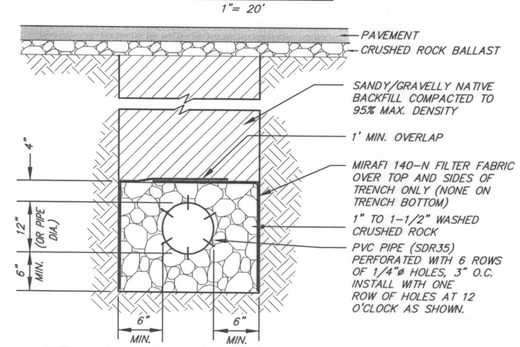
NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.



44TH AVENUE N.E.
1"= 20'



45TH DRIVE N.E.
1"= 20'



STREET PERFORATED CONVEYANCE PIPE
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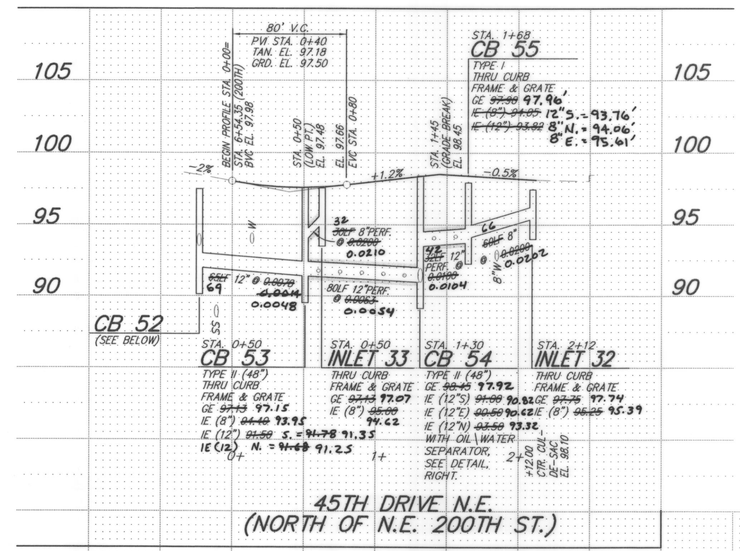
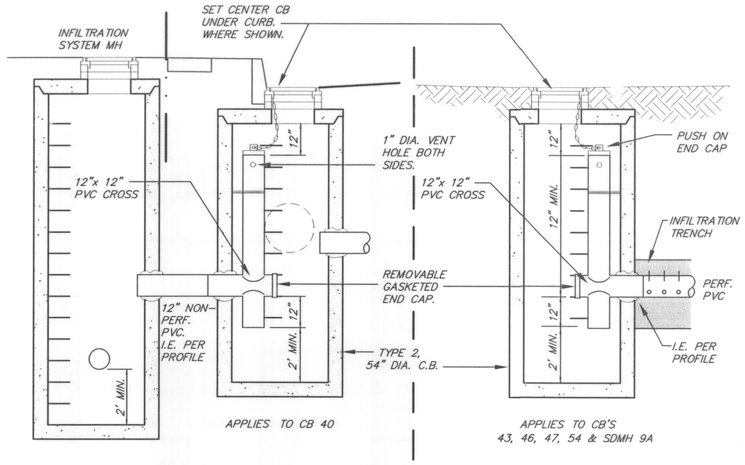
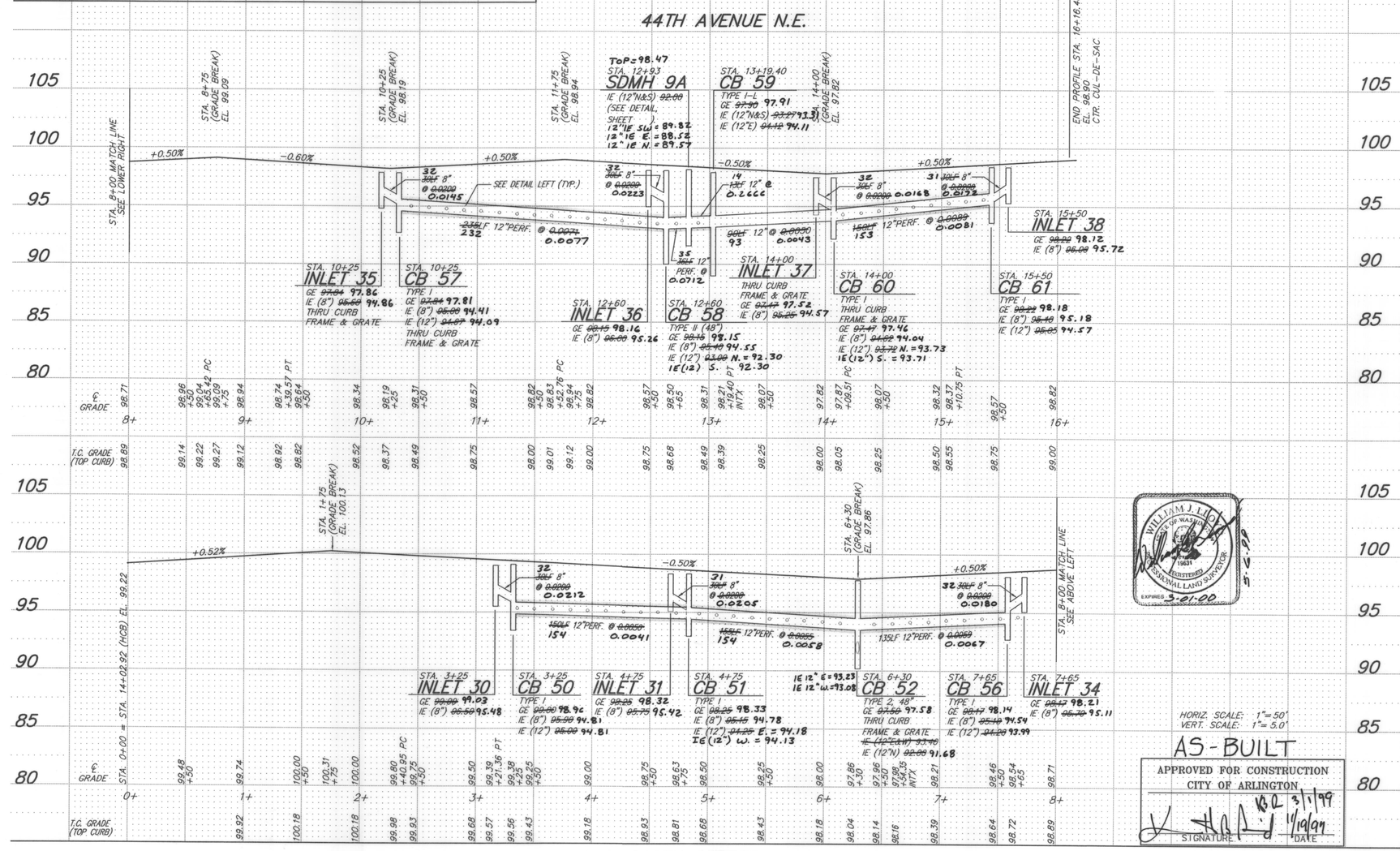


45TH DRIVE N.E.
(NORTH OF N.E. 200TH ST.)



OIL/WATER/FLOATABLES SEPARATOR DETAIL
NO SCALE



HORIZ. SCALE: 1"= 50'
VERT. SCALE: 1"= 5.0'

AS-BUILT
APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
SIGNATURE — DATE 1/19/99

WILLIAM J. LIDDY — STATE OF WASHINGTON — 19631 — REGISTERED PROFESSIONAL LAND SURVEYOR — EXPIRES 3-21-00 — 3-12-99

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NO.	REVISIONS	DATE
1	AS-BUILT	6-8-99

STATE OF WASHINGTON — 14635 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 9-4-98

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E. - SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 [206] 885-7963 FAX

ROAD AND DRAINAGE PROFILES
HIGH CLOVER PARK, DIV. 2
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

HIGH CLOVER PARTNERS

DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED
BRUCE J. DODDS, P.E.
PROJECT MANAGER

SHEET 7 OF 19

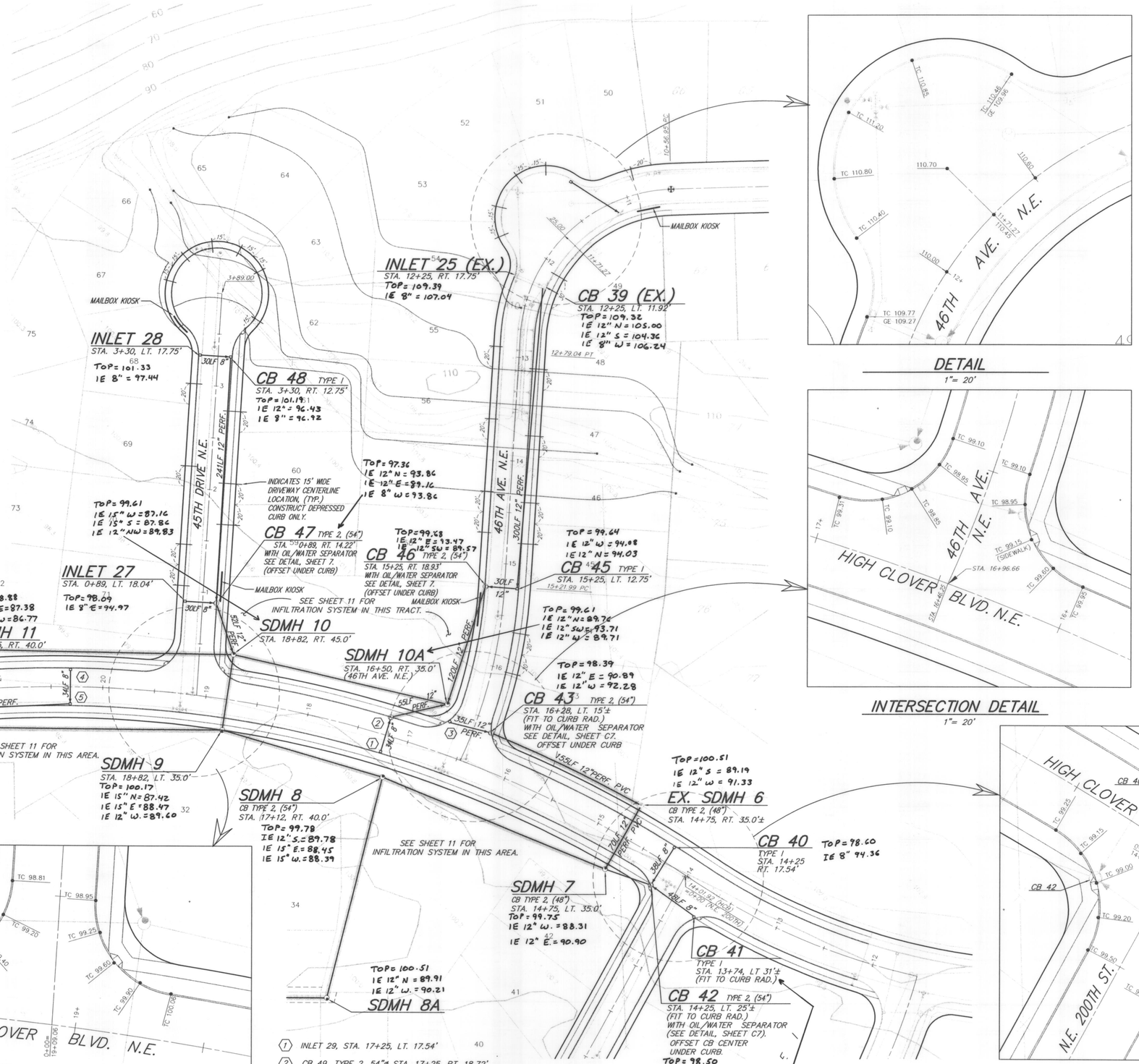
PROJECT NUMBER 90055

PH:DDES\SDPROF-1.DWG

NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.

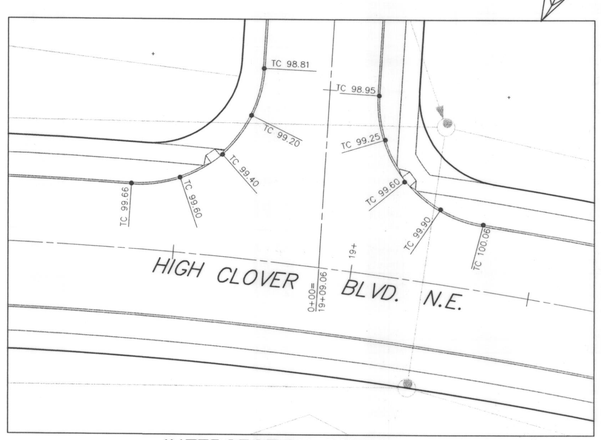
SCALE: 1" = 50'

0 25 50 100



DETAIL
1"= 20'

INTERSECTION DETAIL
1"= 20'



INTERSECTION DETAIL
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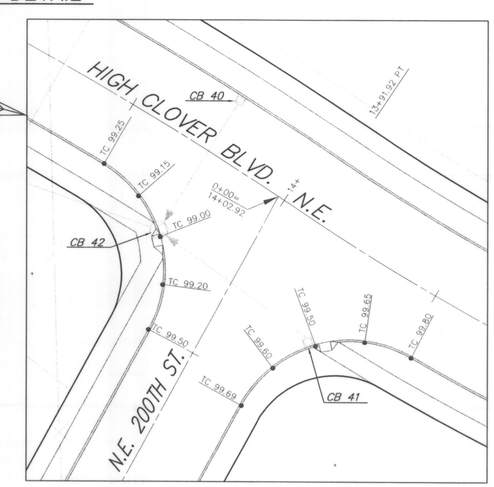

INTERSECTION DETAIL
1"= 20'

1. INLET 29, STA. 17+25, LT. 17.54'
2. CB 49, TYPE 2, 54"ø STA. 17+25, RT. 18.72' OFFSET CB UNDER CURB
3. CB 44, TYPE I STA. 16+66, RT. 24'± (FIT TO CURB RAD.)
4. INLET 39, STA. 20+25, RT. 17.54'
5. CB 62, TYPE I, STA. 20+25, LT. 17.54'
6. CB 59, TYPE I-L STA. 21+91±, LT. 19'± (FIT TO CURB RAD.)

AS-BUILT

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
3/1/99
11/19/97
SIGNATURE DATE

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NO.	REVISIONS	DATE
1	AS-BUILT	6-9-99

LICENSED PROFESSIONAL ENGINEER — 9-4-98

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E.- SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877

ROAD AND DRAINAGE PLAN
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER PARTNERS
4205 148TH AVE. N.E. SUITE 200
BELLEVUE, WASHINGTON 98007

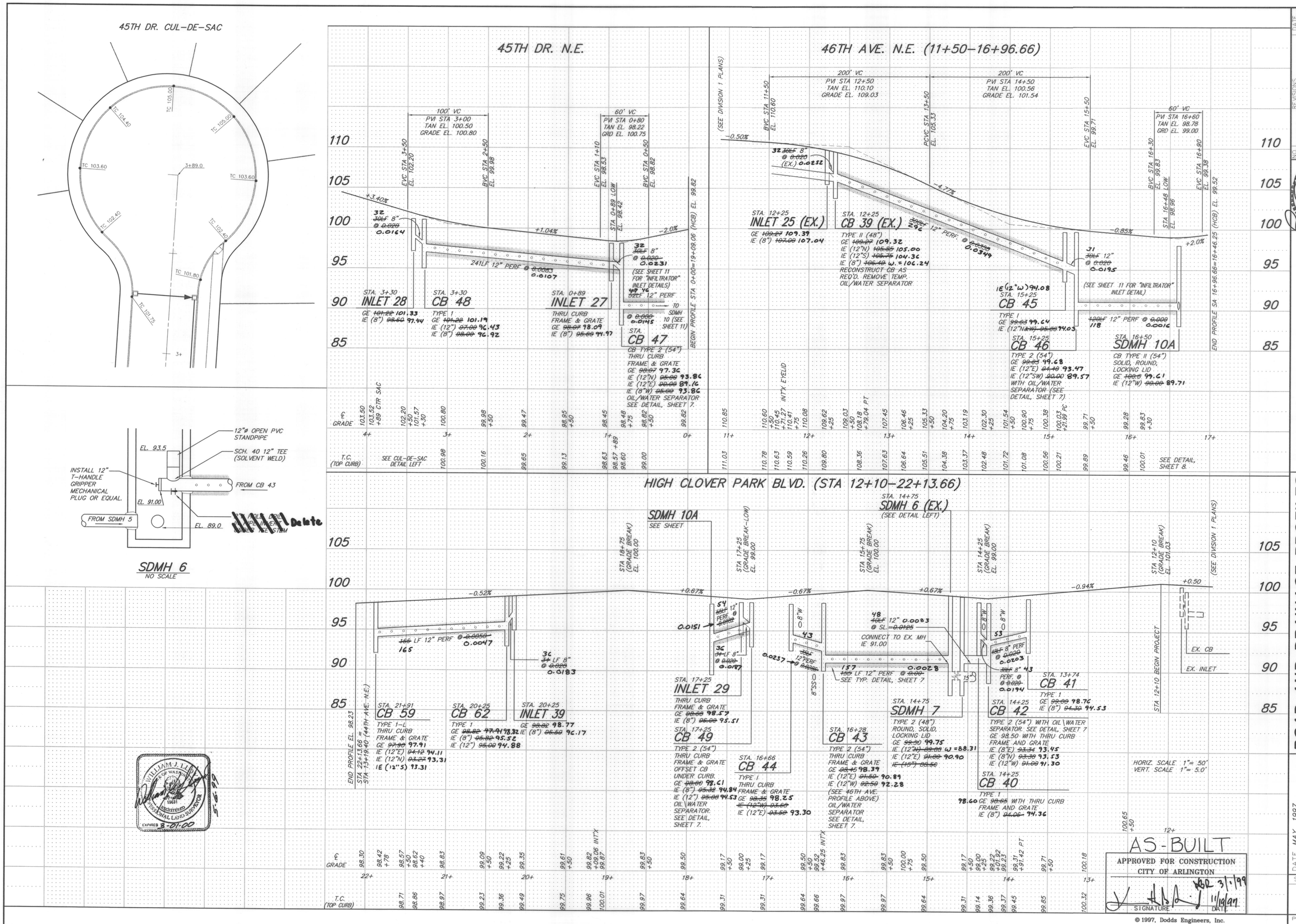
DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED BRUCE J. DODDS, P.E. PROJECT MANAGER

WILLIAM J. LEWIS — STATE OF WASHINGTON — 19831 — REGISTERED PROFESSIONAL LAND SURVEYOR — EXPIRES 3-01-00 — 5-6-99

SHEET	OF
8	19

PROJECT NUMBER 90055

PH2DES\SDPLAN-2.DWG



NO	REVISIONS	DATE
1	AS-BUILT	6-2-99

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CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E.- SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 [206] 885-7963 FAX

ROAD AND DRAINAGE PROFILES
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER PARTNERS
4205 148TH AVE NE #200
BELLEVUE, WA 98007

DATE MAY 1997
DESIGNED BJD
DRAWN L.G.WIGHT
APPROVED
PROJECT MANAGER

SHEET 9 OF 19

PROJECT NUMBER 90055

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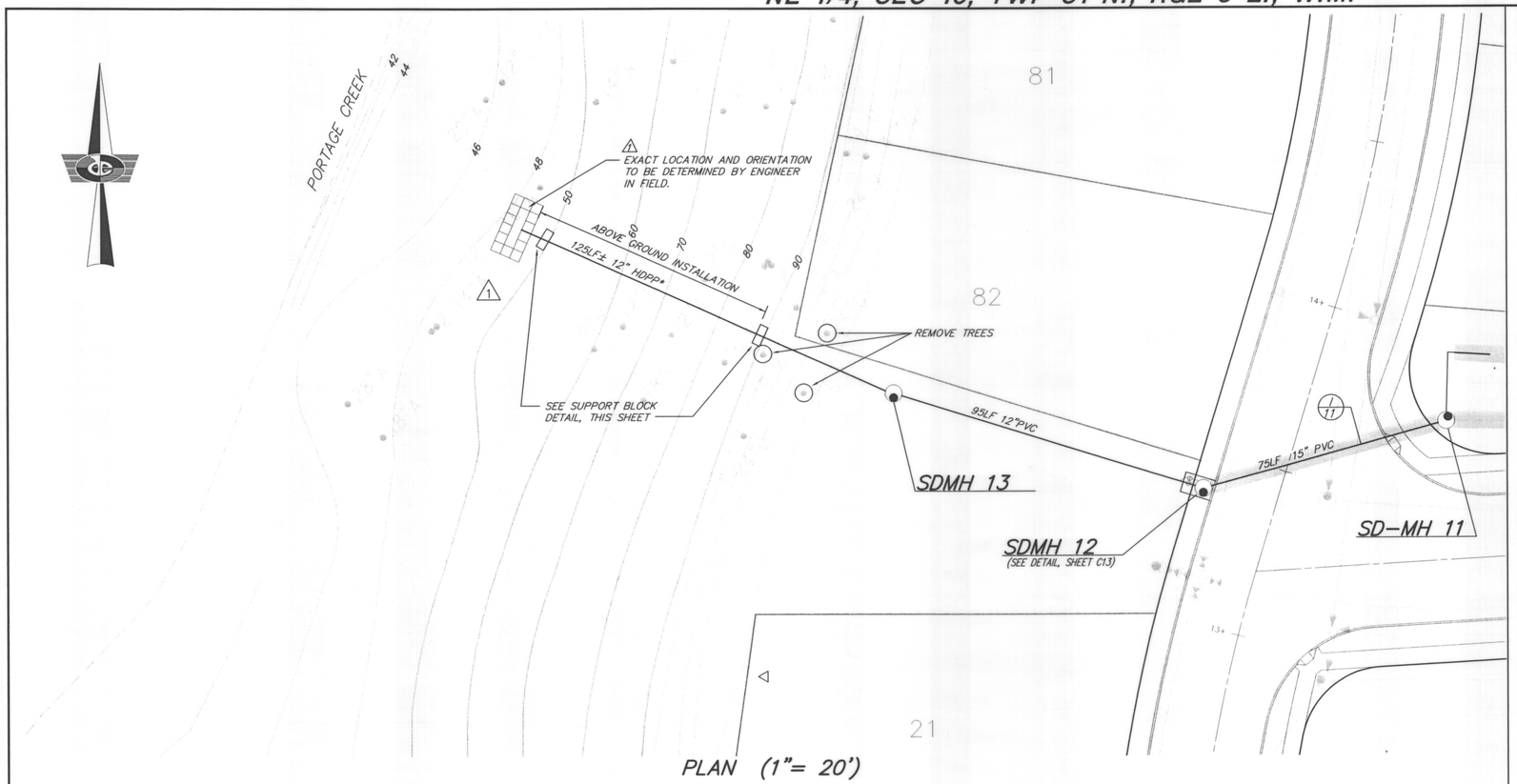
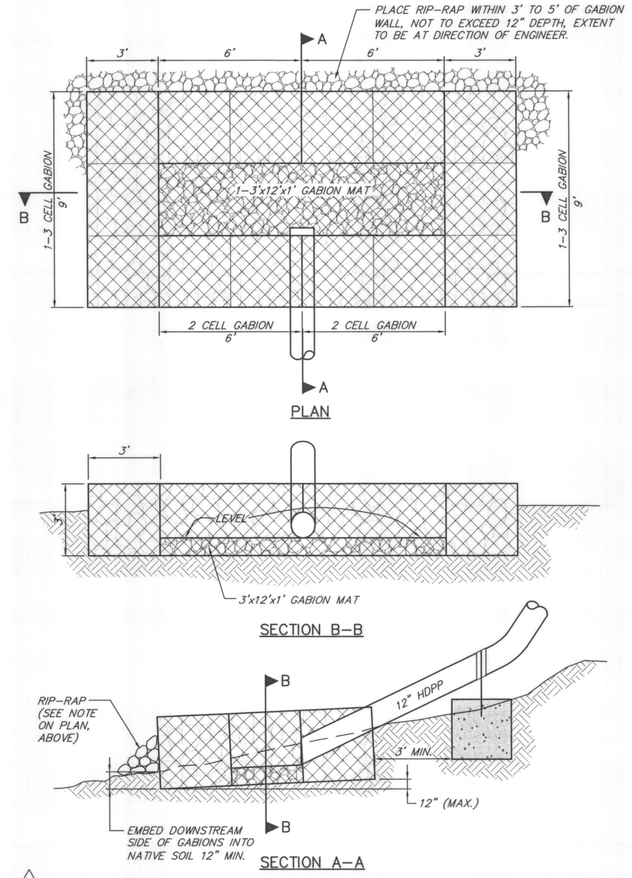
P:\DDES\SDPROF-2.DWG

NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.



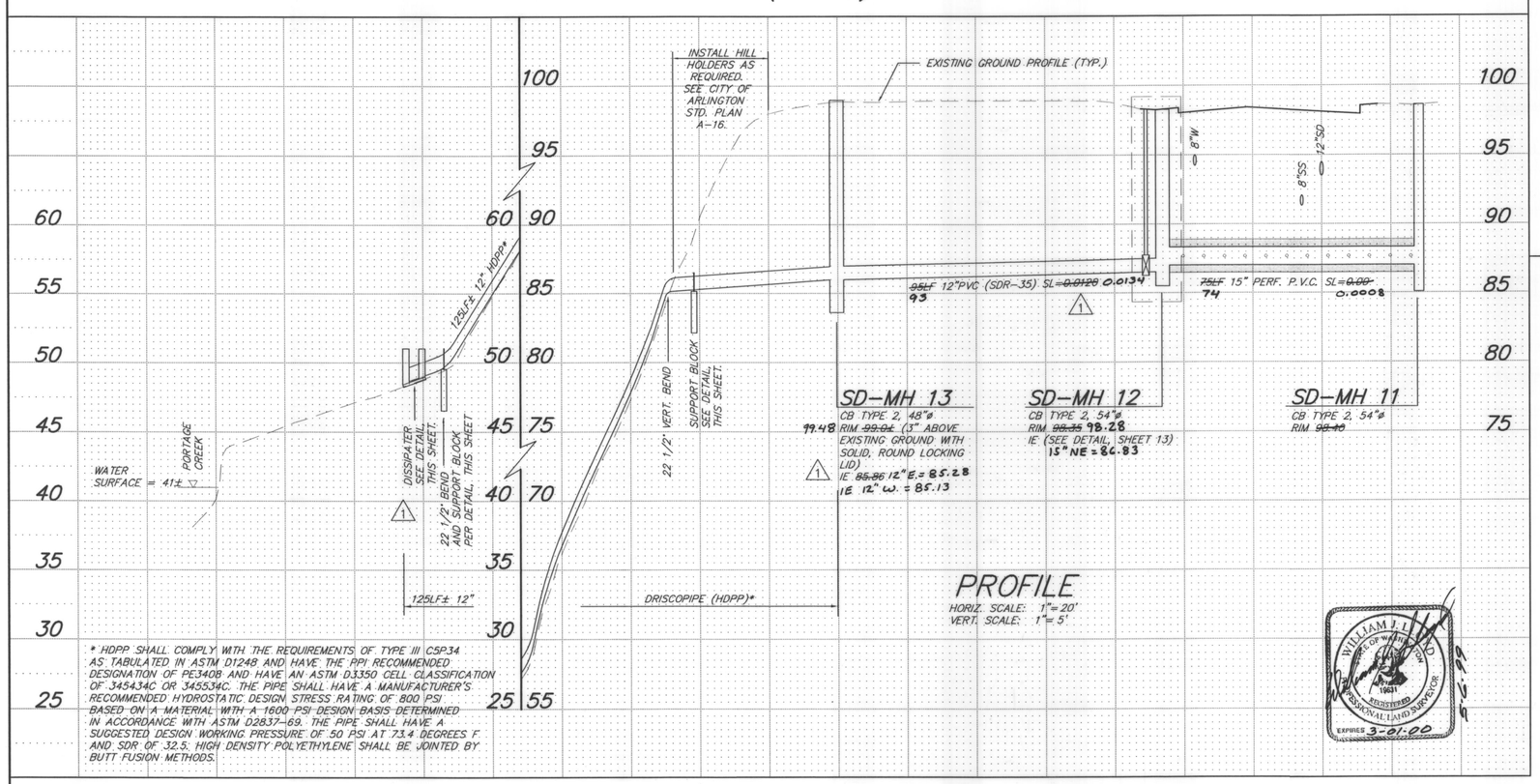
PLAN (1"= 20')

NOTES:
1. GABIONS SHALL CONFORM TO WSDOT SPEC. 6-09.3(6) AND 9-27.3 AND STD. PLAN "D-6".

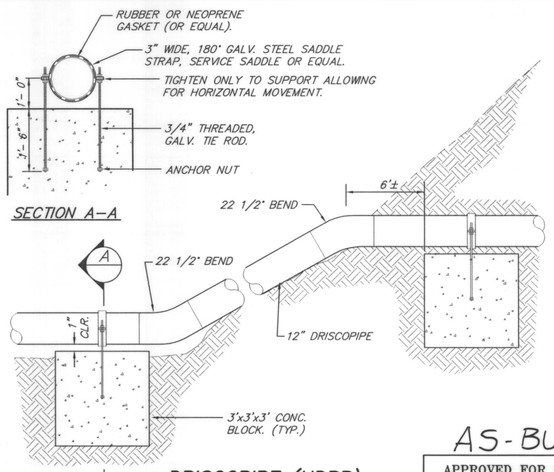


1 PORTAGE CREEK OUTFALL ENERGY DISSIPATOR

1"=3'



* HDPP SHALL COMPLY WITH THE REQUIREMENTS OF TYPE III C5P34 AS TABULATED IN ASTM D1248 AND HAVE THE PPI RECOMMENDED DESIGNATION OF PE340B AND HAVE AN ASTM D3350 CELL CLASSIFICATION OF 345434C OR 345534C. THE PIPE SHALL HAVE A MANUFACTURER'S RECOMMENDED HYDROSTATIC DESIGN STRESS RATING OF 800 PSI BASED ON A MATERIAL WITH A 1600 PSI DESIGN BASIS DETERMINED IN ACCORDANCE WITH ASTM D2837-69. THE PIPE SHALL HAVE A SUGGESTED DESIGN WORKING PRESSURE OF 50 PSI AT 73.4 DEGREES F AND SDR OF 32.5. HIGH DENSITY POLYETHYLENE SHALL BE JOINTED BY BUTT FUSION METHODS.



A DRISCOPIPE (HDPP) SUPPORT BLOCK DETAILS

NO SCALE

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AS-BUILT

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON

SIGNATURE — DATE 3/1/99

NO	REVISIONS	DATE
1	ALTER OUTFALL & DISSIPATOR	1/29/99
2	AS-BUILT	6-8-99

STATE OF WASHINGTON — BRUCE J. DODDS — REGISTERED PROFESSIONAL ENGINEER — 9-4-98

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E. - SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 OR 454-3743

DRAINAGE OVERFLOW SYSTEM
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

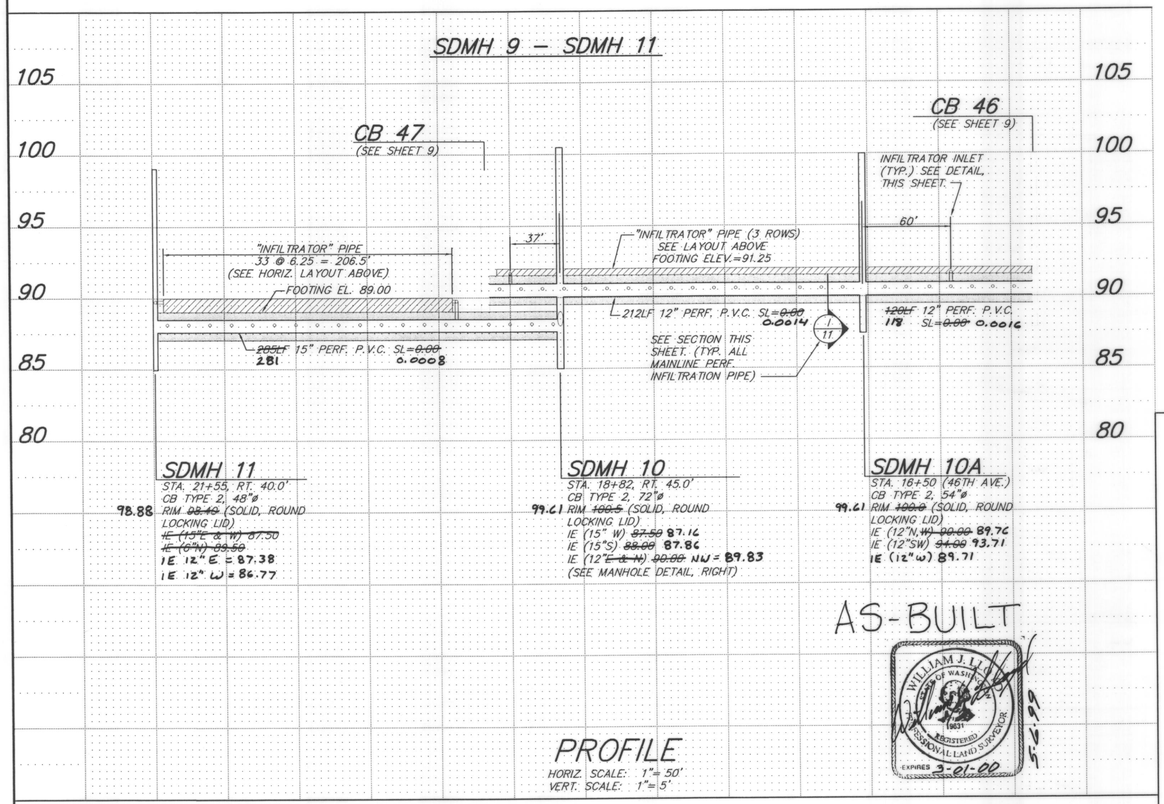
DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED
BRUCE J. DODDS, P.E.
PROJECT MANAGER

SHEET 10 OF 19

PROJECT NUMBER 90055

PH2DES\UNF1-OUT.DWG

NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.

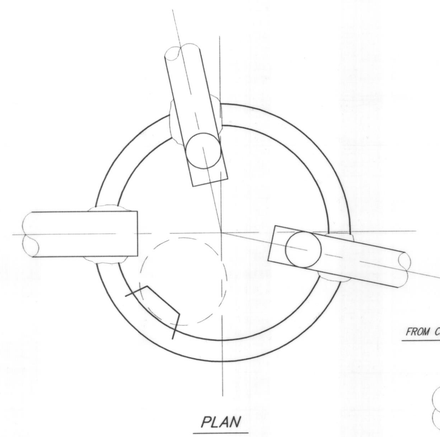


AS-BUILT

WILLIAM J. LEE, STATE OF WASHINGTON, 19931, REGISTERED PROFESSIONAL LAND SURVEYOR, EXPIRES 3-01-00, 5-12-99

PROFILE

HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

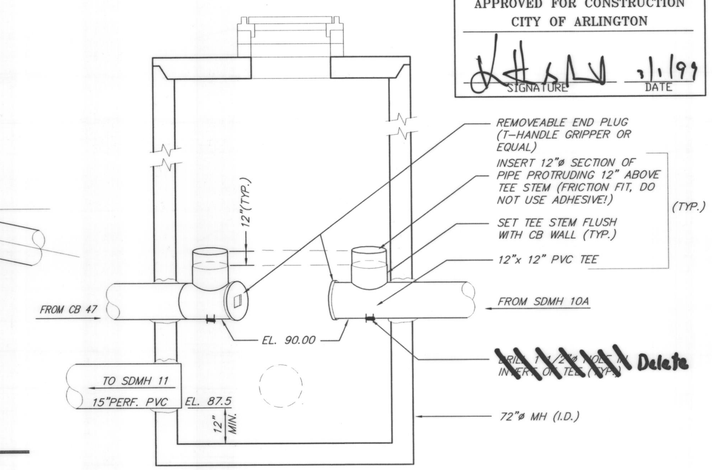


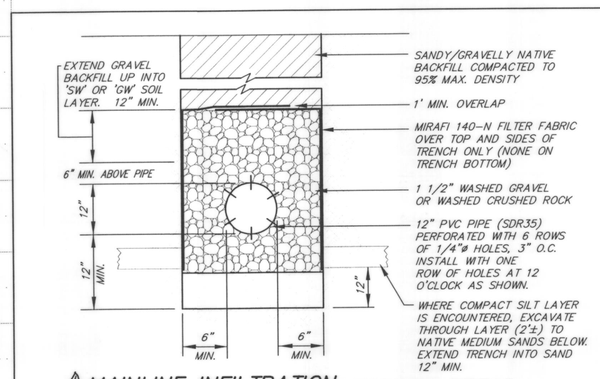
PLAN

SDMH 10 DETAIL

SCALE: 1" = 2'

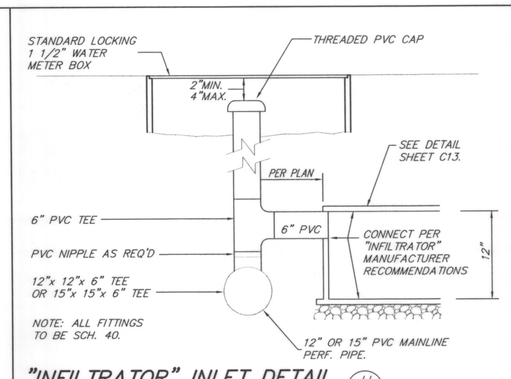
APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
SIGNATURE DATE 1/1/99





MAINLINE INFILTRATION TRENCH DETAIL (I)

NO SCALE



"INFILTRATOR" INLET DETAIL (H)

NO SCALE

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NO.	REVISIONS	DATE
1	REMOVED 2 INFILTRATOR LINES	1/28/99
2	AS-BUILT	6-9-99

STATE OF WASHINGTON, BRUCE J. DODDS, REGISTERED PROFESSIONAL ENGINEER, 21199, EXPIRES 9-4-98

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E.- SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 OR 454-3743

INFILTRATION SYSTEM (SDMH 9 - 11)
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

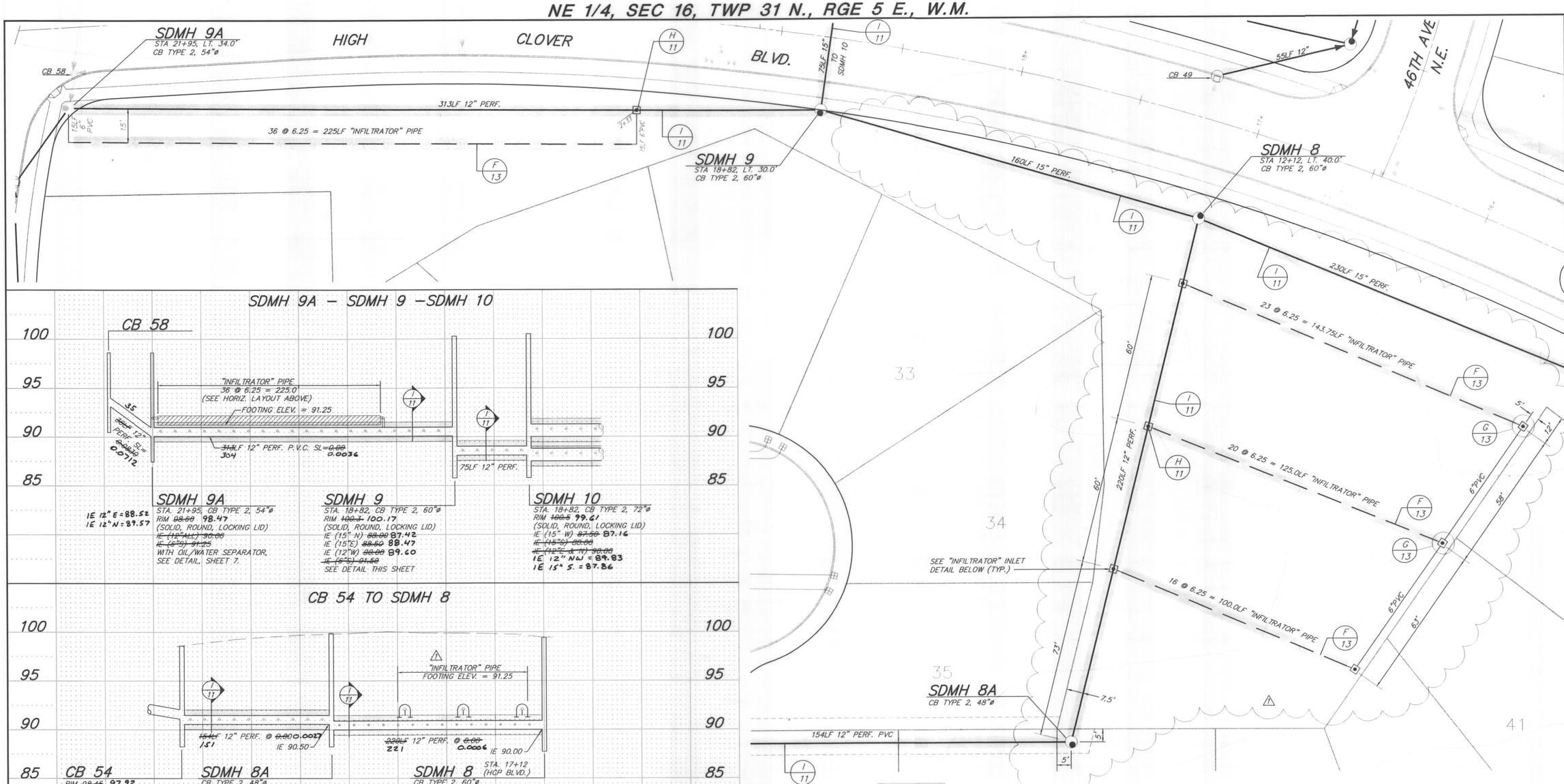
DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED
BRUCE J. DODDS, P.E.
PROJECT MANAGER

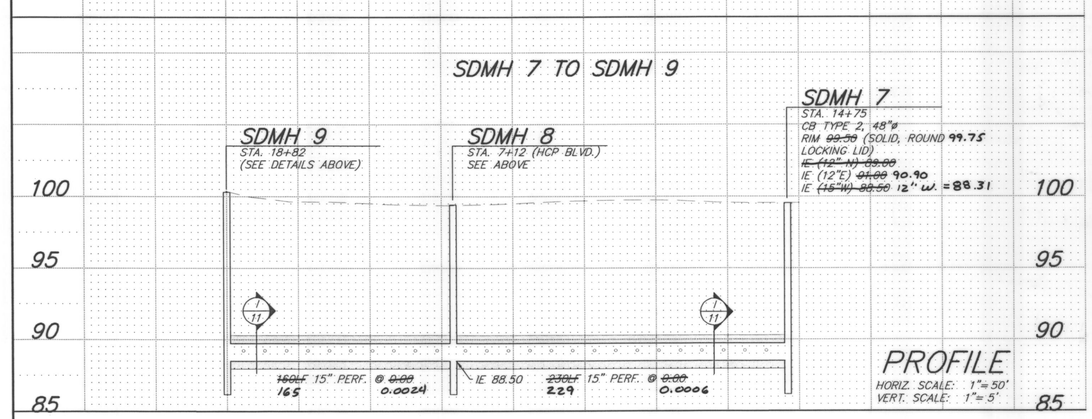
SHEET 11 OF 19

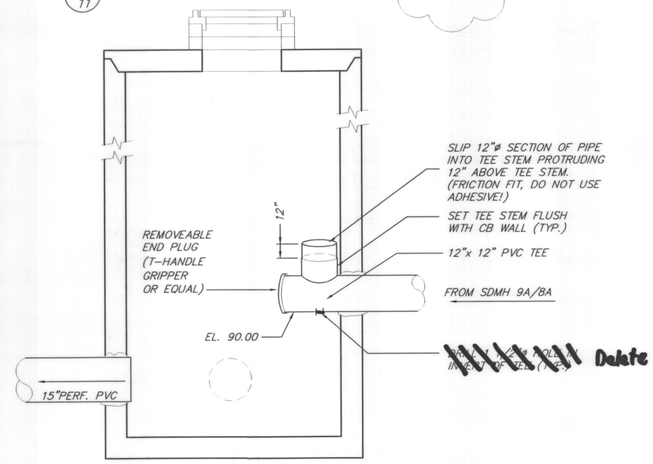
PROJECT NUMBER 90055

PH2DES\INFIL-1.DWG

NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.







SDMH 8 & 9 DETAIL
SCALE: 1" = 2'

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AS-BUILT

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON

SIGNATURE DATE

NO.	REVISIONS	DATE
1	REMOVED 4 INFILTRATOR LINES	1/29/99
2	AS-BUILT	6-2-99

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E.- SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 OR 454-3743

INFILTRATION SYSTEM
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

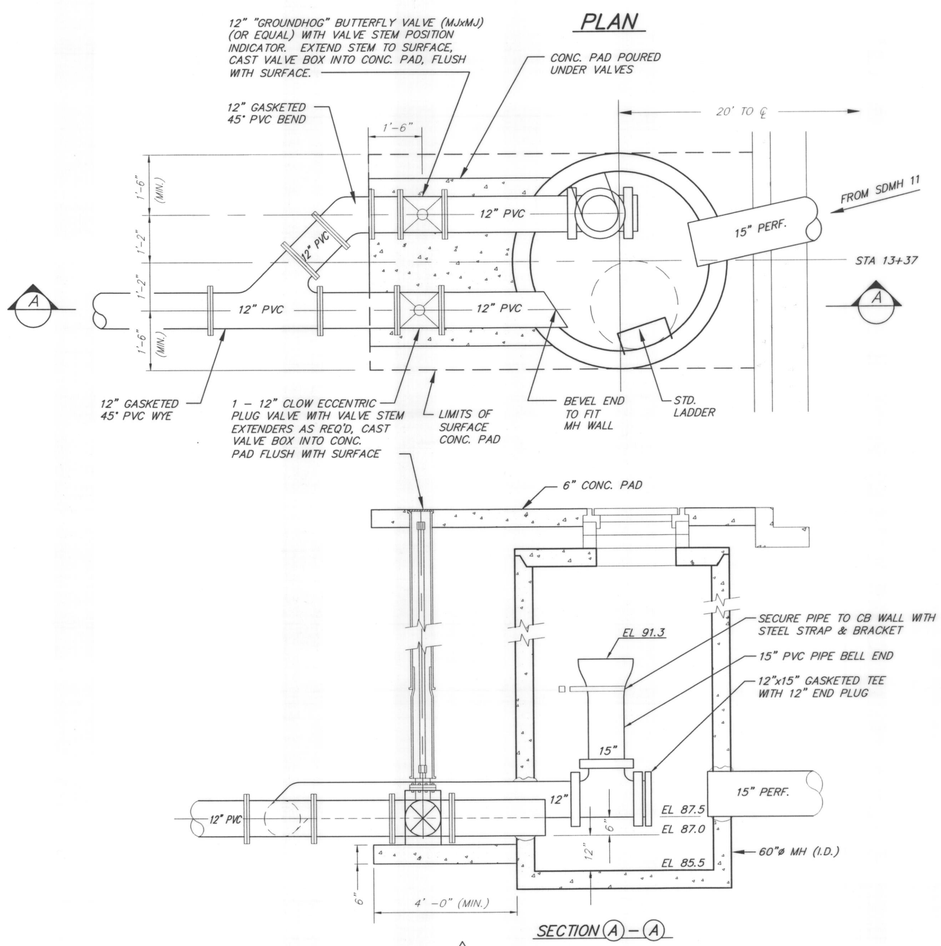
DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED
BRUCE J. DODDS, P.E.
PROJECT MANAGER

SHEET 12 OF 19

PROJECT NUMBER 90055

P:\2DES\INFIL-2.DWG

NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.

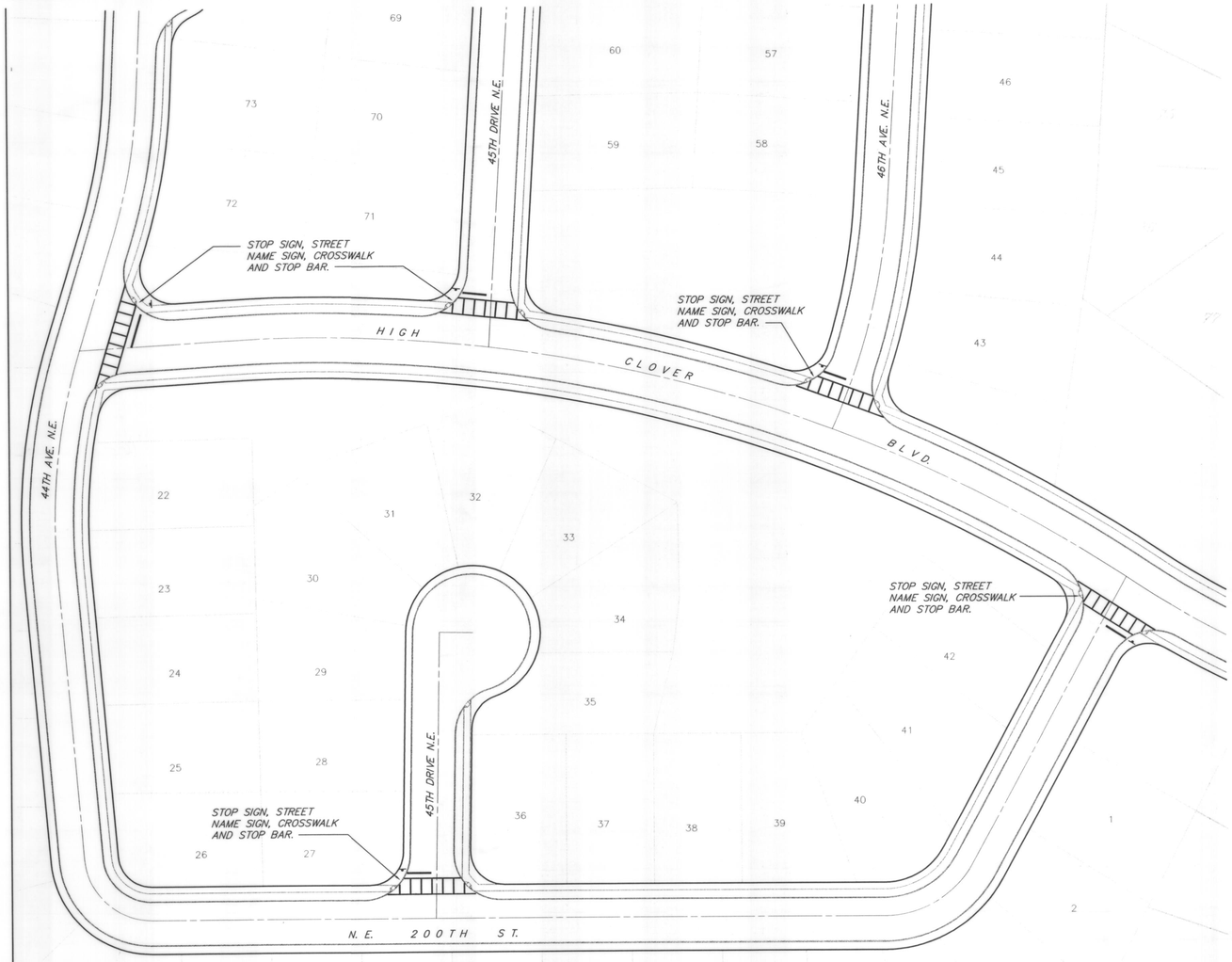


1 SDMH 12 DETAILS

SCALE: 1" = 2'

TOP=98.28

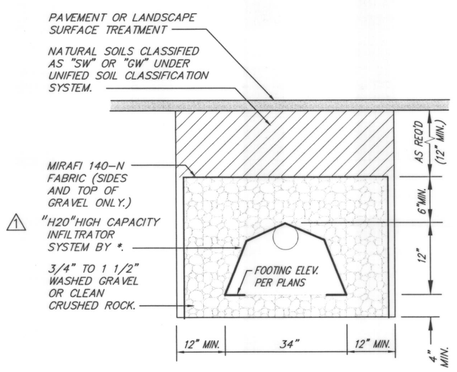
IE 15" NE=86.83



ROAD STRIPING/SIGNAGE PLAN

NOTES:

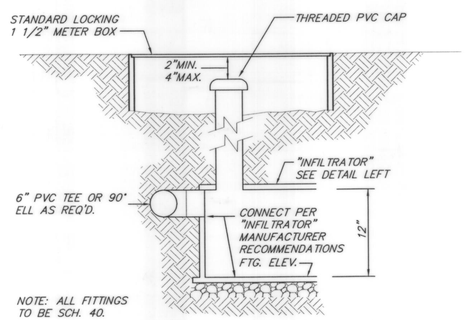
1. ALL PAVEMENT MARKINGS AND STOP BARS TO BE THERMOPLASTIC.
2. ALL STOP SIGNS SHALL BE "R1"- 30"x 30"
3. ALL SPEED LIMIT SIGNS SHALL BE "R2" 25 MPH, 24"x 30".
4. STREET NAME SIGNS SHALL BE 6" HIGH ALUMINUM BLANKS WITH BLUE BACKGROUND AND 4" HIGH WHITE LETTERING, REFLECTIVE SHEETING - ENGINEER GRADE. STREET NAME SIGNS SHALL BE DOUBLE FACED, AND SHOW DIRECTION (NORTH, SOUTH, EAST, WEST).
5. STREET NAME SIGNS SHALL BE PLACED ON TOP OF STOP SIGNS WHERE APPLICABLE.
6. CONTRACTOR SHALL SUPPLY CITY WITH ONE DUPLICATE SIGN FOR EACH STREET NAME.
7. CONTRACTOR SHALL APPLY ALL APPROPRIATE PAVEMENT MARKINGS WITHIN ONE WEEK OF FINAL LIFT OF ASPHALT, WEATHER PERMITTING.



* INFILTRATOR SYSTEMS INC.
OLD SAYBROOK, CT. TEL. 1-800-221-4436
AVAILABLE AT H.D. FOWLER CO., BELLEVUE 1-800-487-5290.

TYPICAL "INFILTRATOR" SECTION (F)

NO SCALE



"INFILTRATOR" OBSERVATION PIPE DETAIL (G)

NO SCALE

NO	REVISIONS	DATE
1	MODIFY INFILTRATOR SPEC, ALTER SDMH-12 DETAILS	1/29/99
2	AS-BUILT	6-9-99

BRUCE J. DODDS, P.E. — WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 9-4-98

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E.- SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 OR 454-3743

DRAINAGE OVERFLOW SYSTEM/ROAD STRIPING & SIGNAGE

HIGH CLOVER PARK, DIV. 2

4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G.WIGHT
APPROVED
BRUCE J. DODDS, P.E. PROJECT MANAGER

SHEET 13 OF 19

PROJECT NUMBER 90055

AS-BUILT

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON

SIGNATURE DATE 3/1/99

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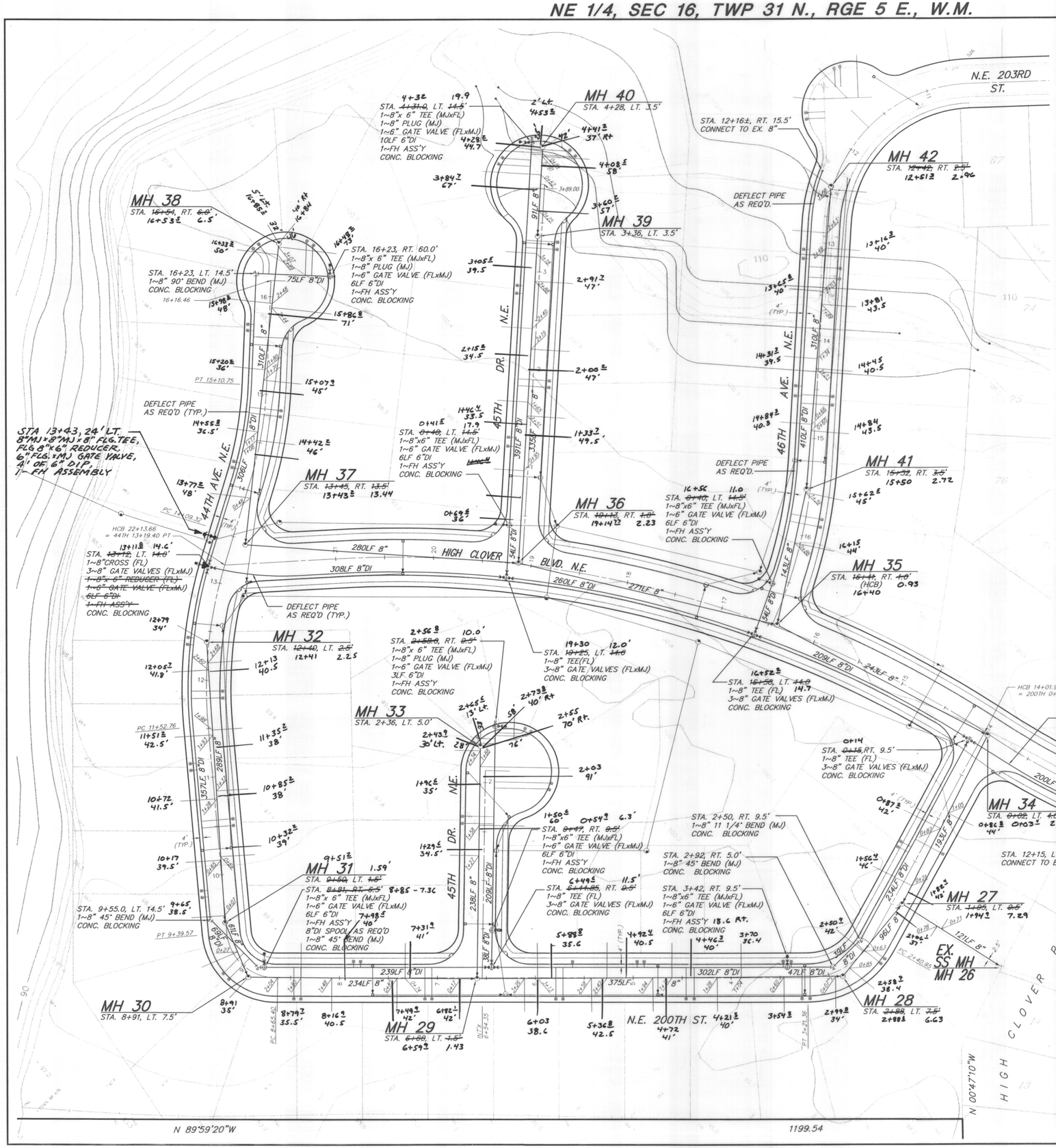
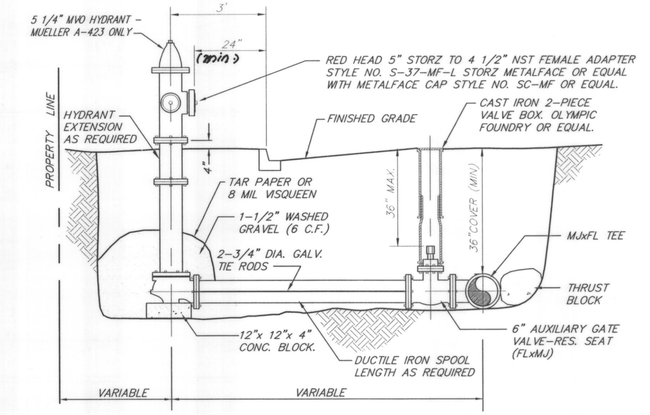
PAGE5\OVERFLOW.DWG

NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.

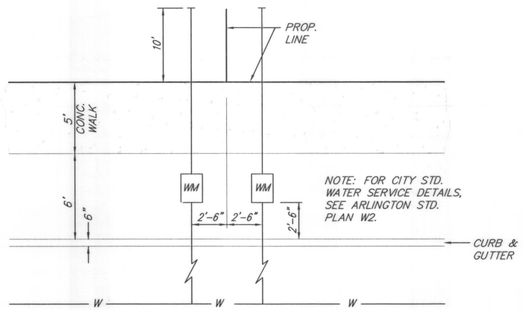




NOTES:
PAINT HYDRANT WITH CASE YELLOW NO. X-3472.
DUG-LUGS JOINT RESTRAINT SYSTEM, MJ FOLLOWERS SHALL BE MEGA LUG.
PAINT TIE RODS WITH BITUMINOUS PAINT ACCORDING TO APWA STANDARDS, SPECIFICATION # 77-3.02A
INSTALL BLUE PAVEMENT MARKER IF HYDRANT IS IN RIGHT-OF-WAY.

FIRE HYDRANT ASSEMBLY

NO SCALE



TYPICAL WATER METER LOCATIONS

1" = 5'

SCALE: 1" = 50'

0 25 50 100

AS-BUILT

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
3/1/99
11/19/97
SIGNATURE DATE

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NO.	REVISIONS	DATE
1	AS-BUILT INFO	6-8-99
2	AS-BUILT INFORMATION F20-99	

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E.- SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877

SANITARY SEWER AND WATER PLAN
HIGH CLOVER PARK, DIV. 2
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007
HIGH CLOVER PARTNERS

DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED BRUCE J. DODDS, P.E. PROJECT MANAGER

SHEET 14 OF 19

PROJECT NUMBER 90055

PH2DES\SSPLAN-1.DWG

WATER NOTES

1. All new connections to the existing water system shall be in strict conformance with the appropriate subsections of Section 74-2 of the APWA Specifications. No connection shall be made between the new main and the existing mains until the new piping has been flushed, disinfected, and tested. Temporary plugs and blocking shall be installed at the points of connection to the existing system. The contractor shall contact the city of Arlington Utility Department at least 5 working days prior to the proposed connection of the existing main. The contractor shall expose the existing main and provide all necessary fittings for the connection. The city of Arlington Utility Department shall be present when the actual connection is made.
2. Pressure and purity testing shall be done in the presence of and under the supervision of the city of Arlington Engineer and/or his representative. The contractor shall provide plugs and/or temporary blow-off assemblies for testing and purity acceptance prior to tie-in.
3. All materials used for construction shall be new and undamaged and shall be inspected and approved by the city of Arlington prior to installation. The suppliers shall provide the city of Arlington with a Certificate of Materials if requested. All pipes, fittings, valves, hydrants, joints, and related appurtenances shall conform to the latest standards issued by the AWWA, APWA and city of Arlington.
4. All water main pipe shall be cement-lined ductile iron pipe conforming to ANSI A-21-51-1976 or latest revision, thickness Class 52. Cement mortar lining and seal coating shall conform to ANSI A-21-4-11-1974 or latest revision. Pipe joints shall be push-on. Tyton joint, mechanical joint or flanged with rubber gaskets.
5. All fittings shall be cast iron, cement-lined, Class 250, unless otherwise specified, conforming to ANSI A-21-11-1977 or latest revision. All fitting joints shall be mechanical joint or flanged. Flanged joints shall be drilled in accordance with ANSI B-16.1 and shall be 125 lb. configuration, unless otherwise specified.
6. Concrete blocking shall be placed at all tees, crosses, bends and valves. Blocking shall be Class 5 (1-1/2) concrete mix poured in place. Blocking shall bear against solid undisturbed earth at the sides and bottom of the trench excavation and shall be shaped so as not to obstruct access to the joints of the pipe or fittings. Prior to blocking, the fittings shall be securely wrapped with 4-mil polyethylene sheeting. Pipe bedding shall be APWA Class "C." All trench backfill in areas of future pavement, concrete sidewalks, or structural fill shall be compacted to at least 95% of the maximum dry density per ASTM D1557-70 (Modified Proctor). All other areas shall be compacted to 90%
7. All water mains shall have minimum cover of 36" from finish grade. Where utility conflicts occur, water mains shall be lowered to clear. A minimum six inches vertical separation shall be maintained between all utilities.
8. Gate valves 12" and smaller shall conform with the requirements of AWWA Standard Specifications for gate valves for ordinary water works service No. C-509, except as superseded by the following: They shall be iron body with epoxy coating inside, resilient seat rubber vulcanized to gate, or S.S. seat ring attached to disc with S.S. screws. The valves shall be non-rising stem, open to the left, and shall be equipped with standard 2" square operating nuts. Valves shall be equipped with "O-ring" packing. Valves to be equal to American-80 "CRS", Waterous Series 500 or Mueller A-2370. Valve boxes shall be two-piece, cast iron valve box with adjustable sections equal to Olympic Foundry Part No. VB1. All valves shall be furnished with a box, cover, and marker post. A concrete valve marker post shall be furnished and installed as directed for each gate valve located outside of the street. The concrete marker post shall have a 4" min. square section and a minimum length of 42" with beveled edges and contain at least one (1) 3/8" dia. bar of reinforcing steel. Markers shall be placed as directed by the engineer and set so as to leave 18" exposed above grade. The exposed portion of the marker posts shall be painted with two (2) coats of white concrete paint, and the size of the valve (for example, 6" G.V.) and the distance in feet and inches to the valve shall then be stenciled with black paint on the face of the post, using a stencil which will produce letters two (2) inches high.
9. All fire hydrants shall be Mueller A-423 only and installed in accordance with city of Arlington standards. The hydrant leads shall be a minimum of 6" in diameter. Auxiliary valves shall be installed in the hydrant leads located in the connection to the City main. All hydrants shall be equipped with a drain. A gravel pocket or dry well shall be provided unless the natural soils will provide adequate drainage. Hydrant drains shall not be connected to storm drains or located within 10 feet of or connected to sanitary sewers. Hydrants shall be painted with two (2) coats of traffic yellow paint #1701 as manufactured by Farwest Paint Mfg. Co. or equal. Concrete fire hydrant guard posts shall be furnished and installed with fire hydrands as directed by the engineer. The guard posts shall be made of reinforced concrete, eight (8) inches in diameter, six (6) feet long and buried to a minimum depth of three (3) feet. Guard posts shall not be set higher than the top of the fire hydrants, they shall be plumb, and where two posts are used at a hydrant, they shall be set with their tops at the same elevation. The exposed portion of the guard posts shall be painted with two (2) coats of white concrete paint approved by the engineer. See city of Arlington Standard fire hydrant detail for other requirements.
10. All water meters shall be installed by the city of Arlington. All services, meter boxes, and appurtenances shall be installed by the contractor to city of Arlington standards. All meter sizes and leads shall be 3/4" for single services or 1" for double services unless otherwise noted on the plans.
11. Meter boxes shall be 11 1/2" X 17 1/2" concrete meter box with 3/16" steel diamond plate cover equal to Fog-Tite Meter Seal Co. 1D Meter Box.

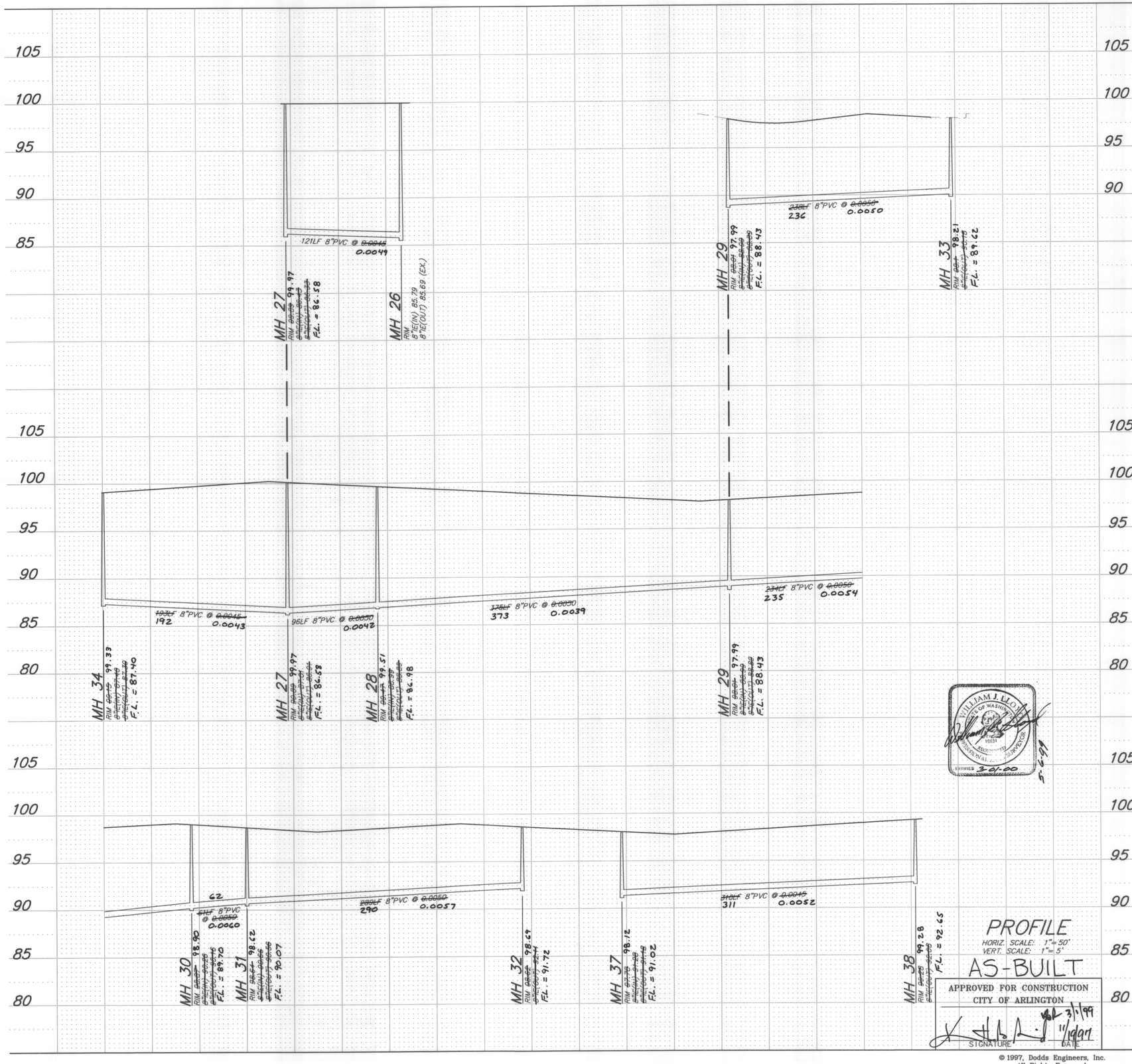
New Water Main Construction

1. Backflow prevention requirements shall be completed prior to beginning construction. See Backflow Prevention Requirement notes below.
2. Purity test must be completed prior to conducting pressure test.
3. Pump will not be hooked up to hydrant service or blow-off assembly until city water inspector is present.
4. Barrels used to pump out of must be new or used only for this purpose (inspector's discretion).
5. 200 psi must be maintained for 15 minutes.
6. Pressure will be bled off after testing.
7. Flush once more after pressure testing is complete.

Blocking: Call for inspection before pouring.
Call for inspection after pouring.

Backflow Prevention Requirements for New Water Main Construction

1. Install State approved Double Check Valve Assembly (DCVA) in location specified by City water inspector.
   a. Call City water department before installing DCVA to verify it appears on the state approved list.
   b. DCVA shall be installed in a temporary vault or other suitable configuration so no portion of the DCVA is covered with dirt or other material.
   c. Plugs shall be placed in all test cocks (4).
2. Contractor shall have DCVA tested by a State approved Backflow Assembly Tester. A copy of the test report must be submitted to the City water department for review and approval, prior to calling for inspection.
3. Call for inspection of the DCVA (after test report has been submitted). 24 hours minimum notice required.
4. The DCVA shall not be removed from service without approval of the City water inspector.
5. During the hydrostatic pressure test, the DCVA shall be removed, unless sterilization and satisfactory bacteriological sampling has been achieved.



PROFILE
HORIZ. SCALE: 1"=50'
VERT. SCALE: 1"=5'

AS-BUILT
APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
SIGNATURE 3/1/99 DATE

WILLIAM J. LLOYD — STATE OF WASHINGTON — 19531 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 3-01-00 — 5-6-98

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NO.	REVISIONS	DATE
1	AS-BUILT	6-2-99

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E.- SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 [206] 885-7963 FAX

SANITARY SEWER PROFILES
HIGH CLOVER PARK, DIV. 2
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

HIGH CLOVER PARTNERS

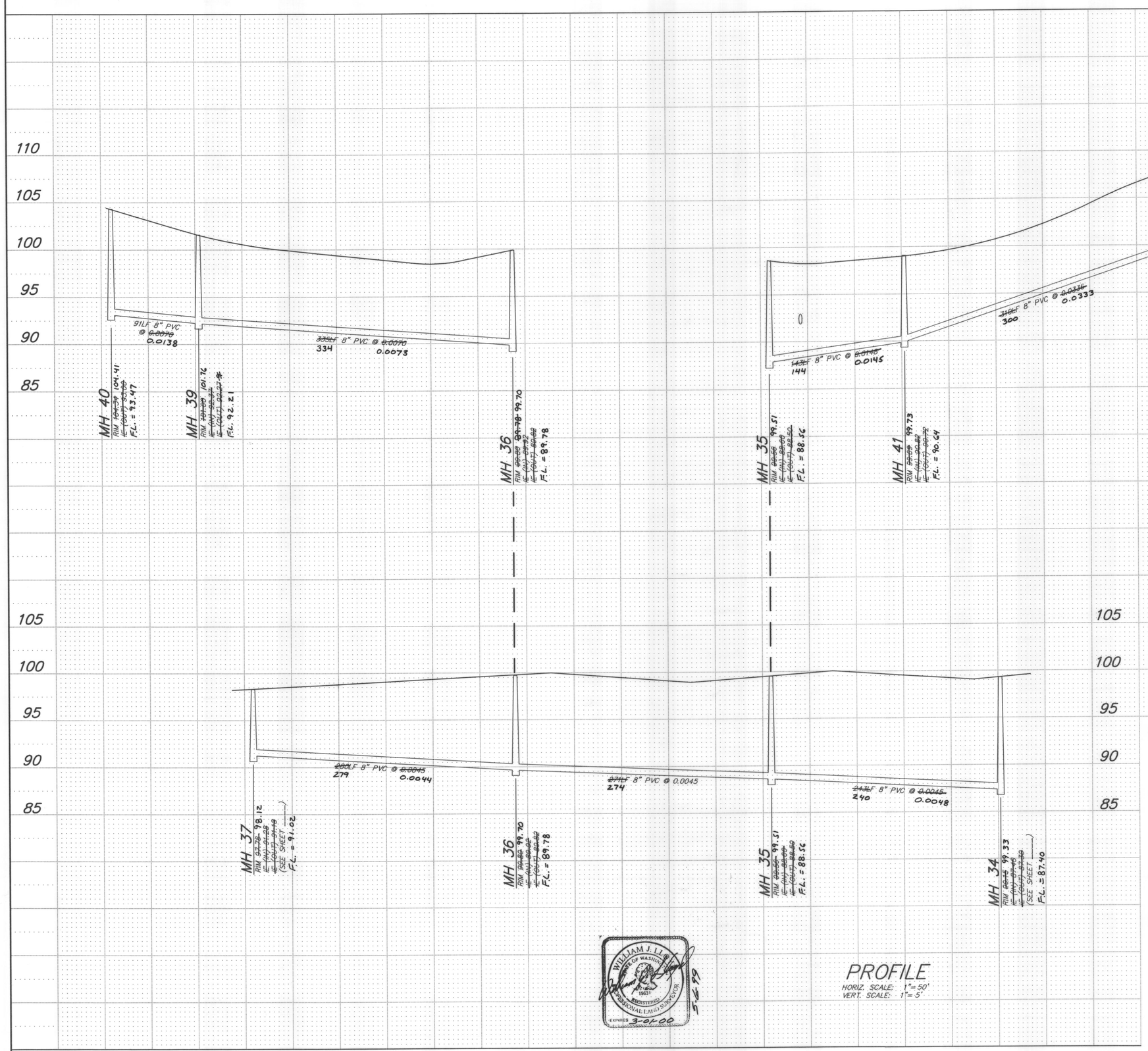
DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED BRUCE J. DODDS, P.E. PROJECT MANAGER

SHEET 15 OF 19

PROJECT NUMBER 90055

PH2DES\SSPROF-1.DWG

NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.



PROFILE

HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

WILLIAM J. LE
STATE OF WASHINGTON
19631
REGISTERED
PROFESSIONAL LAND SURVEYOR
EXPIRES 3-01-00
5-6-99

SANITARY SEWER NOTES

1. All manholes shall be per City of Arlington Std. Plan No. S-1, with eccentric cones and 1" safety steps. All manhole covers shall conform to City of Arlington Std. Plan No. S-2, solid locking lid with one 7/8" lift hole, and shall read "SEWER". All manholes shall have a minimum 0.10 foot drop between invert in and invert out. All manhole covers shall be adjusted to finish grade prior to final paving or landscaping.
2. All sewer pipe shall conform to one of the following specifications.
   a. Ductile iron – Class 52, cement-lined, conforming to ANSI A-21.51 (AWWA C-151). Ductile iron pipe is required on all sewers which are less than 5 feet deep or greater than 14 feet deep.
   b. PVC – conforming to ASTM D-3034, SDR 35, with fittings and gaskets conforming to city of Arlington standards.
3. All ductile iron pipe shall have an APWA Class "B" pipe bedding. All other pipe shall have an APWA Class "F" flexible pipe bedding.
4. All trench backfill shall be compacted to at least 95% of the maximum dry density per ASTM D-1557-70 (Modified Proctor), for the first three feet above the pipe. The remaining backfill may be to 90% if not in an area of future pavement, concrete sidewalks, or structural fill. Trench backfill and compaction shall be completed prior to testing lines for leakage.
5. All side sewers shall be a minimum 6" diameter and have a minimum slope of 2.0%. Property/lot corners and/or building locations and finish grades shall be established in the field prior to any sewer construction. Side sewer tee stations are referenced from the nearest downstream manhole. The contractor shall maintain accurate as-built records of all side sewer locations. All side sewers shall be tested at the time of main line testing. Installations shall conform to City of Arlington Standard Plan S-8.

AS-BUILT

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
Mar 31, 1999
SIGNATURE 11/19/99 DATE

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NO.	REVISIONS	DATE
1	AS-BUILT	6-8-99

STATE OF WASHINGTON 14820 BRUCE J. DODDS REGISTERED PROFESSIONAL ENGINEER
EXPIRES 3-4-98

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E.- SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 [206] 885-7963 FAX

SANITARY SEWER PROFILES
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED
BRUCE J. DODDS, P.E.
PROJECT MANAGER

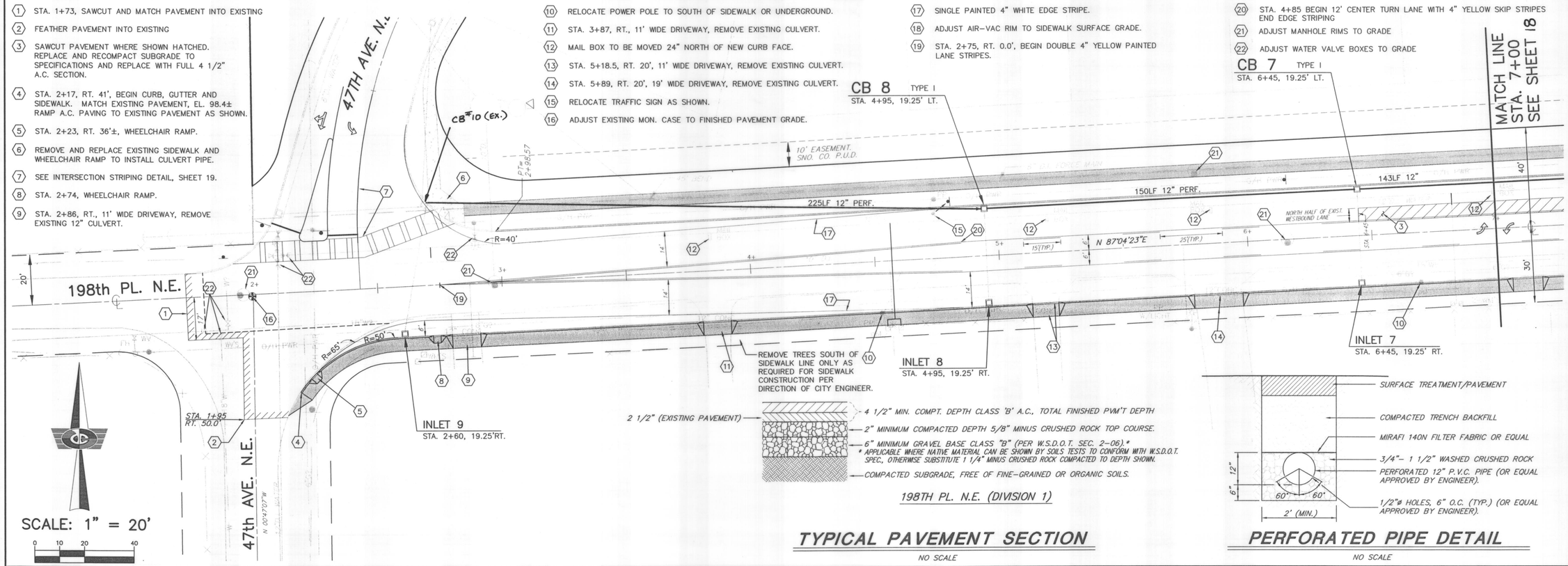
SHEET 16 OF 19

PROJECT NUMBER 90055

PH:DDES\SSPROF-2.DWG

NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.

1. STA. 1+73, SAWCUT AND MATCH PAVEMENT INTO EXISTING
2. FEATHER PAVEMENT INTO EXISTING
3. SAWCUT PAVEMENT WHERE SHOWN HATCHED. REPLACE AND RECOMPACT SUBGRADE TO SPECIFICATIONS AND REPLACE WITH FULL 4 1/2" A.C. SECTION.
4. STA. 2+17, RT. 41', BEGIN CURB, GUTTER AND SIDEWALK. MATCH EXISTING PAVEMENT, EL. 98.4± RAMP A.C. PAVING TO EXISTING PAVEMENT AS SHOWN.
5. STA. 2+23, RT. 36'±, WHEELCHAIR RAMP.
6. REMOVE AND REPLACE EXISTING SIDEWALK AND WHEELCHAIR RAMP TO INSTALL CULVERT PIPE.
7. SEE INTERSECTION STRIPING DETAIL, SHEET 19.
8. STA. 2+74, WHEELCHAIR RAMP.
9. STA. 2+86, RT., 11' WIDE DRIVEWAY, REMOVE EXISTING 12" CULVERT.
10. RELOCATE POWER POLE TO SOUTH OF SIDEWALK OR UNDERGROUND.
11. STA. 3+87, RT., 11' WIDE DRIVEWAY, REMOVE EXISTING CULVERT.
12. MAIL BOX TO BE MOVED 24" NORTH OF NEW CURB FACE.
13. STA. 5+18.5, RT. 20', 11' WIDE DRIVEWAY, REMOVE EXISTING CULVERT.
14. STA. 5+89, RT. 20', 19' WIDE DRIVEWAY, REMOVE EXISTING CULVERT.
15. RELOCATE TRAFFIC SIGN AS SHOWN.
16. ADJUST EXISTING MON. CASE TO FINISHED PAVEMENT GRADE.
17. SINGLE PAINTED 4" WHITE EDGE STRIPE.
18. ADJUST AIR-VAC RIM TO SIDEWALK SURFACE GRADE.
19. STA. 2+75, RT. 0.0', BEGIN DOUBLE 4" YELLOW PAINTED LANE STRIPES.
20. STA. 4+85 BEGIN 12' CENTER TURN LANE WITH 4" YELLOW SKIP STRIPES END EDGE STRIPING
21. ADJUST MANHOLE RIMS TO GRADE
22. ADJUST WATER VALVE BOXES TO GRADE



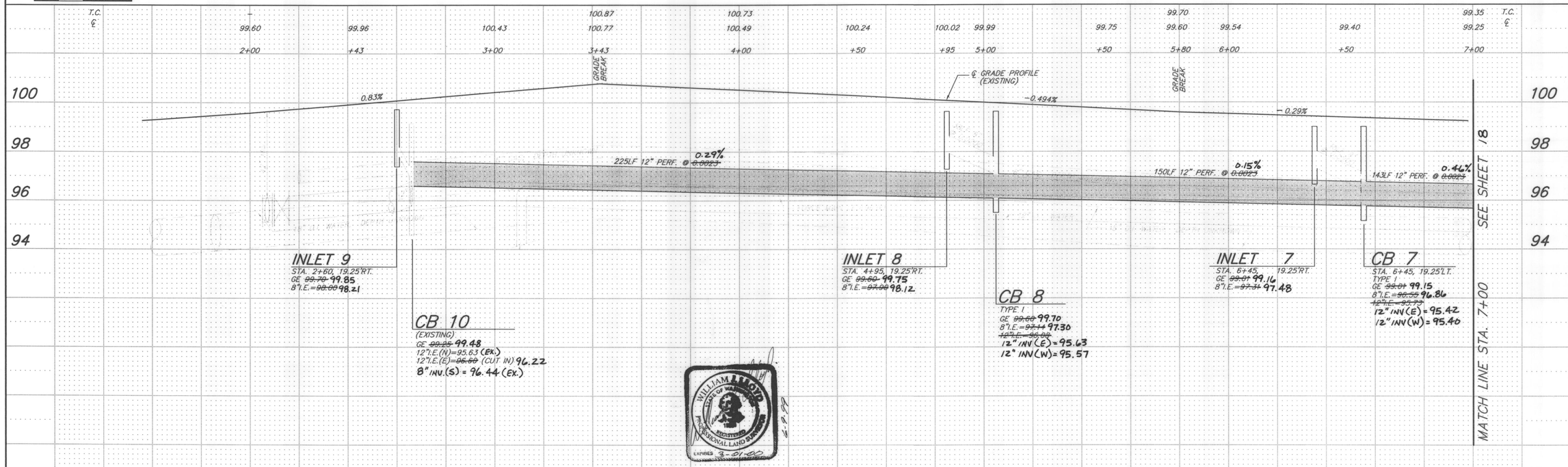
198TH PL. N.E. (DIVISION 1)

TYPICAL PAVEMENT SECTION

NO SCALE

PERFORATED PIPE DETAIL

NO SCALE



PROFILE

HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=2'

AS-BUILT

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
SIGNATURE 11/19/97 DATE

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NO	REVISIONS	DATE
1	AS-BUILT	6-9-99

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E.- SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 OR 454-3743

DRWG 3-4-98

198th PLACE N.E. IMPROVEMENTS
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

DATE MAY 1997
DESIGNED B.J. DODDS
DRAWN L.G. WIGHT
APPROVED BRUCE J. DODDS, P.E. PROJECT MANAGER

SHEET 17 OF 19

PROJECT NUMBER 90055

PH2DES\RDPLAN-1.DWG

NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.

3

(2) FEATHER PAVEMENT INTO EXISTING

(3) SAWCUT PAVEMENT WHERE SHOWN HATCHED. REPLACE AND RECOMPACT SUBGRADE TO SPECIFICATIONS AND REPLACE WITH FULL 1 1/2" A.C. SECTION.

(7) SEE INTERSECTION STRIPING DETAIL, SHEET 19.

(10) RELOCATE POWER POLE TO SOUTH OF SIDEWALK OR UNDERGROUND

(12) MAIL BOX TO BE MOVED 24" NORTH OF NEW CURB FACE

(16) ADJUST EXISTING MON. CASE TO FINISHED PAVEMENT GRADE

(21) ADJUST MANHOLE RIMS TO GRADE

(22) ADJUST WATER VALVE BOXES TO GRADE

(35) STA. 10+64, CENTERLINE 18' DRIVEWAY

(36) STA. 11+14, CENTERLINE 18' DRIVEWAY

(37) STA. 12+05, 20' RT., CENTERLINE 16' DRIVEWAY

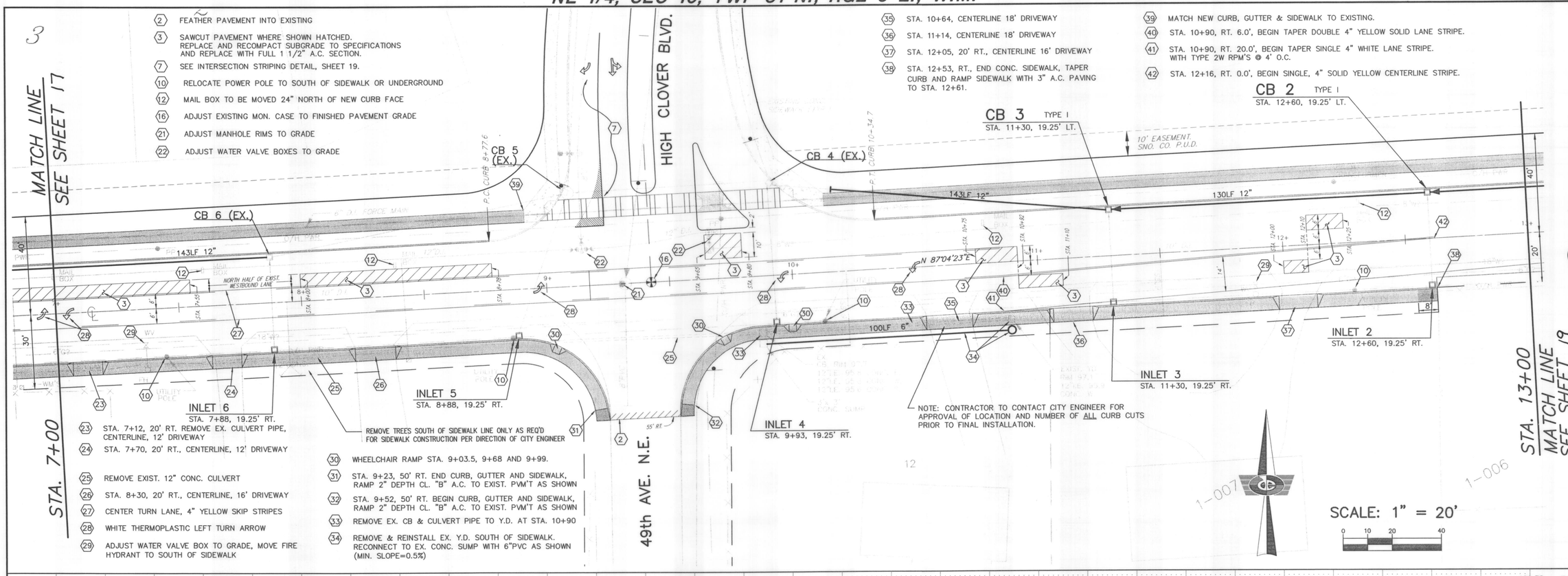
(38) STA. 12+53, RT., END CONC. SIDEWALK, TAPER CURB AND RAMP SIDEWALK WITH 3" A.C. PAVING TO STA. 12+61.

(39) MATCH NEW CURB, GUTTER & SIDEWALK TO EXISTING.

(40) STA. 10+90, RT. 6.0', BEGIN TAPER DOUBLE 4" YELLOW SOLID LANE STRIPE.

(41) STA. 10+90, RT. 20.0', BEGIN TAPER SINGLE 4" WHITE LANE STRIPE. WITH TYPE 2W RPM'S @ 4' O.C.

(42) STA. 12+16, RT. 0.0', BEGIN SINGLE, 4" SOLID YELLOW CENTERLINE STRIPE.



(23) STA. 7+12, 20' RT. REMOVE EX. CULVERT PIPE, CENTERLINE, 12' DRIVEWAY

(24) STA. 7+70, 20' RT., CENTERLINE, 12' DRIVEWAY

(25) REMOVE EXIST. 12" CONC. CULVERT

(26) STA. 8+30, 20' RT., CENTERLINE, 16' DRIVEWAY

(27) CENTER TURN LANE, 4" YELLOW SKIP STRIPES

(28) WHITE THERMOPLASTIC LEFT TURN ARROW

(29) ADJUST WATER VALVE BOX TO GRADE, MOVE FIRE HYDRANT TO SOUTH OF SIDEWALK

REMOVE TREES SOUTH OF SIDEWALK LINE ONLY AS REQ'D FOR SIDEWALK CONSTRUCTION PER DIRECTION OF CITY ENGINEER

(30) WHEELCHAIR RAMP STA. 9+03.5, 9+68 AND 9+99.

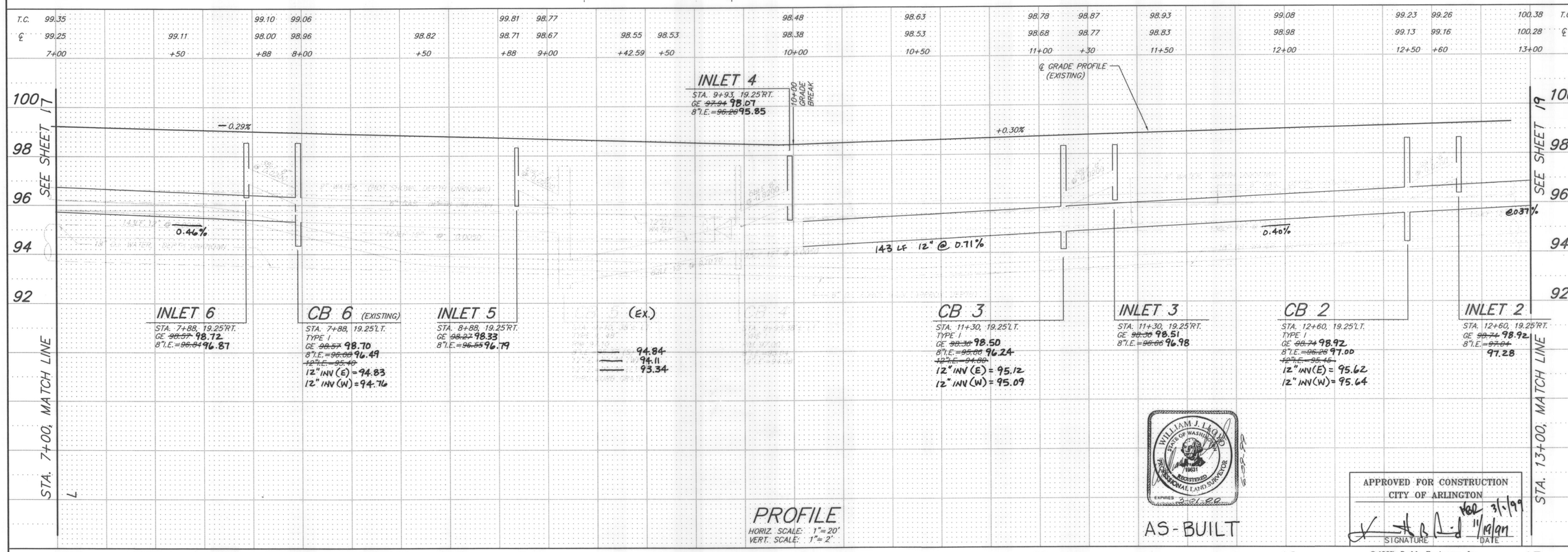
(31) STA. 9+23, 50' RT. END CURB, GUTTER AND SIDEWALK, RAMP 2" DEPTH CL. "B" A.C. TO EXIST. PVM'T AS SHOWN

(32) STA. 9+52, 50' RT. BEGIN CURB, GUTTER AND SIDEWALK, RAMP 2" DEPTH CL. "B" A.C. TO EXIST. PVM'T AS SHOWN

(33) REMOVE EX. CB & CULVERT PIPE TO Y.D. AT STA. 10+90

(34) REMOVE & REINSTALL EX. Y.D. SOUTH OF SIDEWALK. RECONNECT TO EX. CONC. SUMP WITH 6"PVC AS SHOWN (MIN. SLOPE=0.5%)

NOTE: CONTRACTOR TO CONTACT CITY ENGINEER FOR APPROVAL OF LOCATION AND NUMBER OF ALL CURB CUTS PRIOR TO FINAL INSTALLATION.



PROFILE
HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=2'

AS-BUILT

APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
3/1/99
SIGNATURE DATE

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NO.	REVISIONS	DATE
1	AS-BUILT	6-9-99

EXPIRES 9-4-98

DODDS ENGINEERS, INC.
CIVIL ENGINEERING SURVEYING PLANNING
4205-148TH AVE. N.E.- SUITE 200
BELLEVUE, WASHINGTON 98007
[206] 885-7877 OR 454-3743

198th PLACE N.E. IMPROVEMENTS
HIGH CLOVER PARK, DIV. 2
HIGH CLOVER PARTNERS
4205 148TH AVE. N.E., SUITE 200
BELLEVUE, WASHINGTON 98007

DATE MAY 1997
DESIGNED B.J.DODDS
DRAWN L.G.WIGHT
APPROVED BRUCE J. DODDS, P.E. PROJECT MANAGER

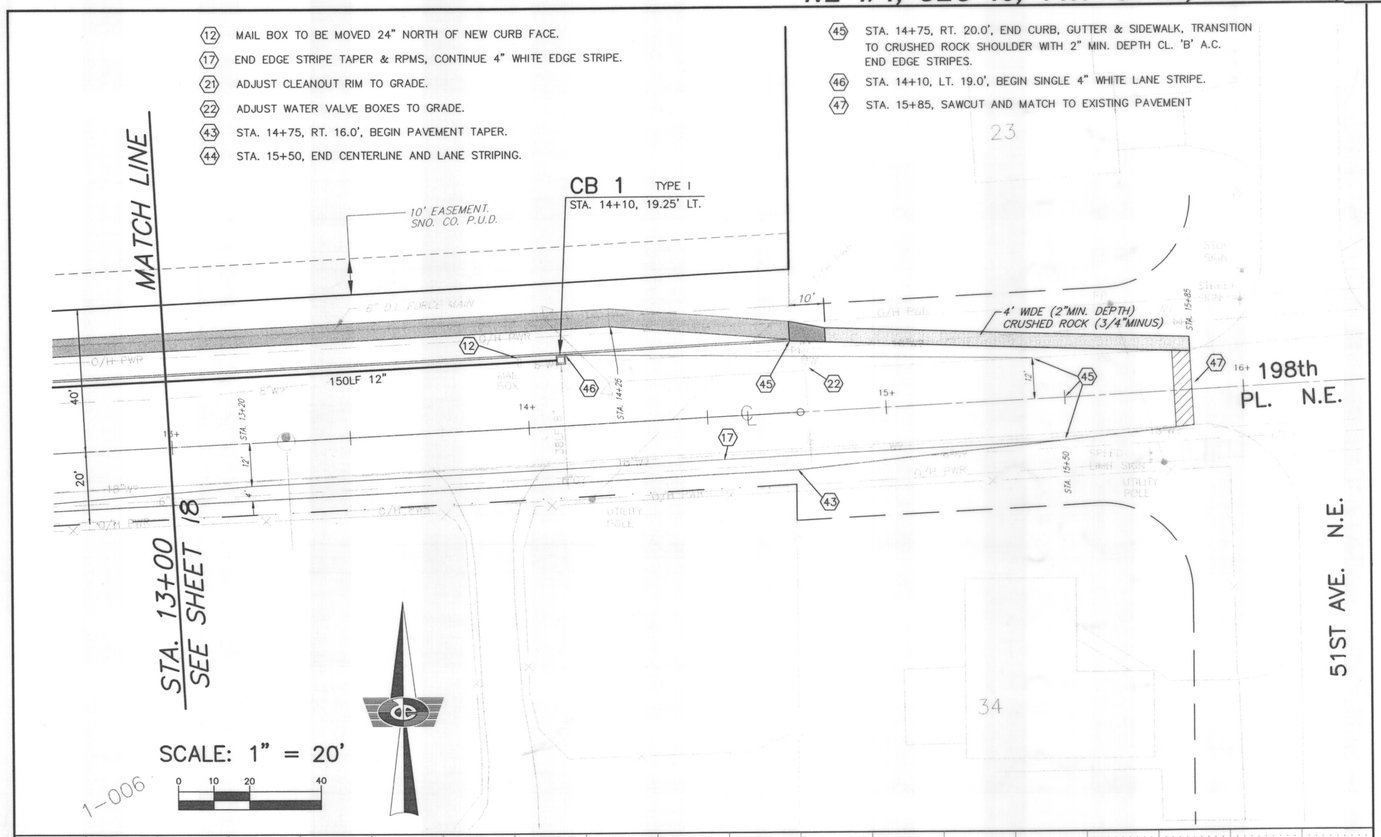
SHEET 18 OF 19

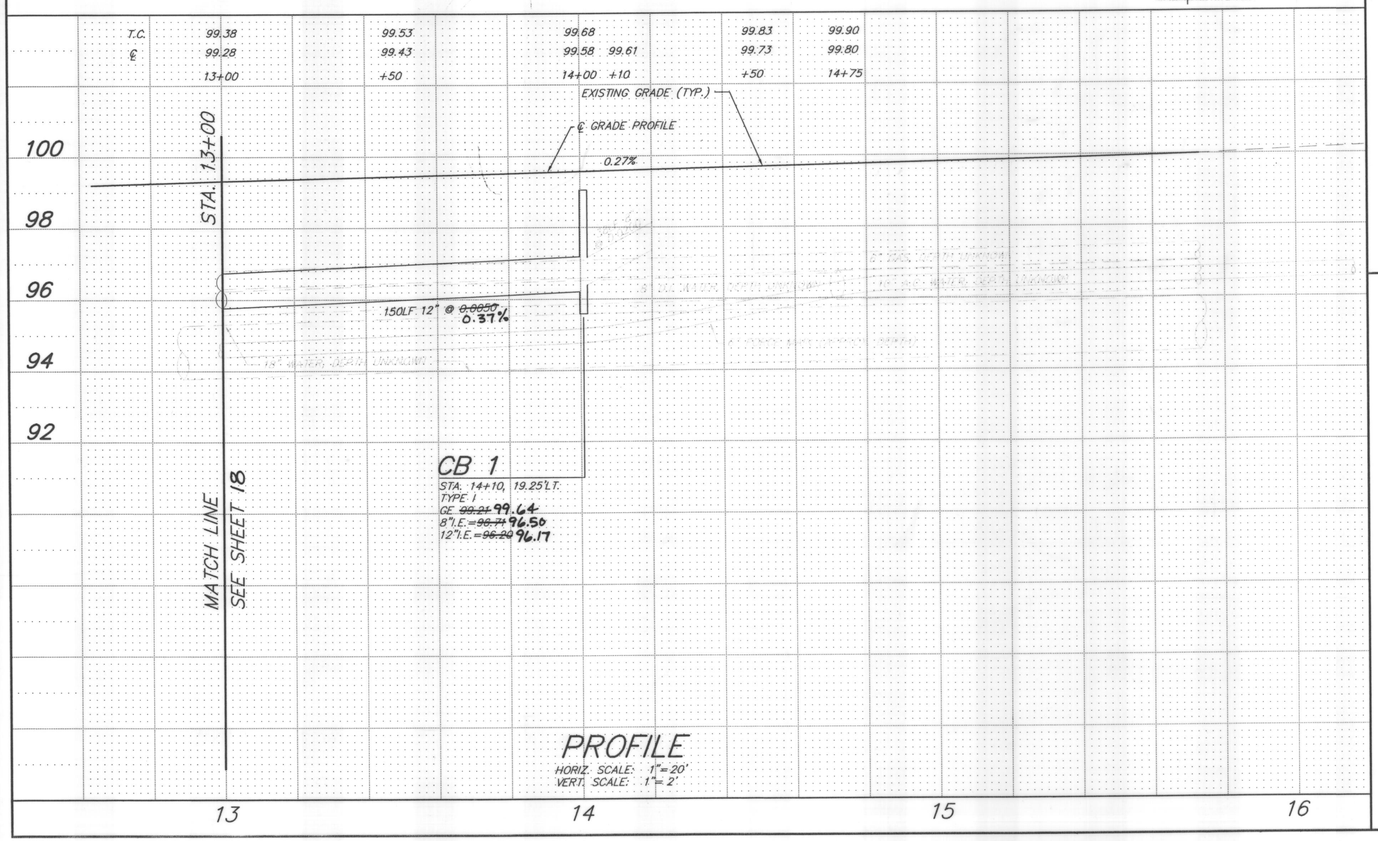
PROJECT NUMBER 90055

PH2DES\ADPLAN-2.DWG

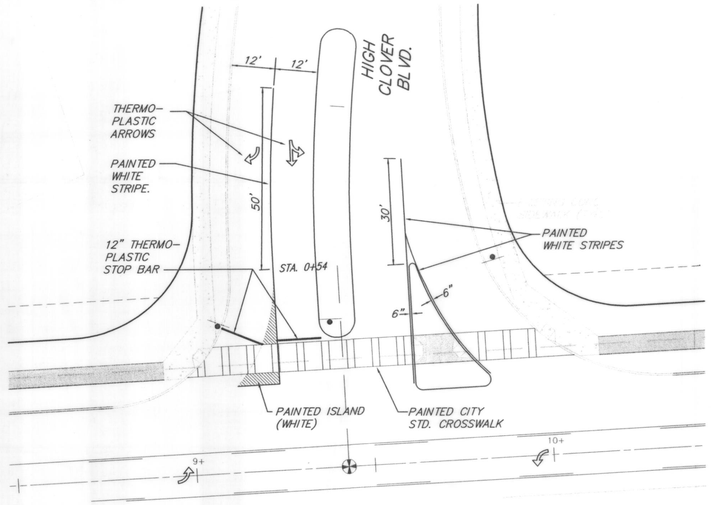
NE 1/4, SEC 16, TWP 31 N., RGE 5 E., W.M.

(12) MAIL BOX TO BE MOVED 24" NORTH OF NEW CURB FACE.
(17) END EDGE STRIPE TAPER & RPMS, CONTINUE 4" WHITE EDGE STRIPE.
(21) ADJUST CLEANOUT RIM TO GRADE.
(22) ADJUST WATER VALVE BOXES TO GRADE.
(43) STA. 14+75, RT. 16.0', BEGIN PAVEMENT TAPER.
(44) STA. 15+50, END CENTERLINE AND LANE STRIPING.
(45) STA. 14+75, RT. 20.0', END CURB, GUTTER & SIDEWALK, TRANSITION TO CRUSHED ROCK SHOULDER WITH 2" MIN. DEPTH CL. 'B' A.C. END EDGE STRIPES.
(46) STA. 14+10, LT. 19.0', BEGIN SINGLE 4" WHITE LANE STRIPE.
(47) STA. 15+85, SAWCUT AND MATCH TO EXISTING PAVEMENT



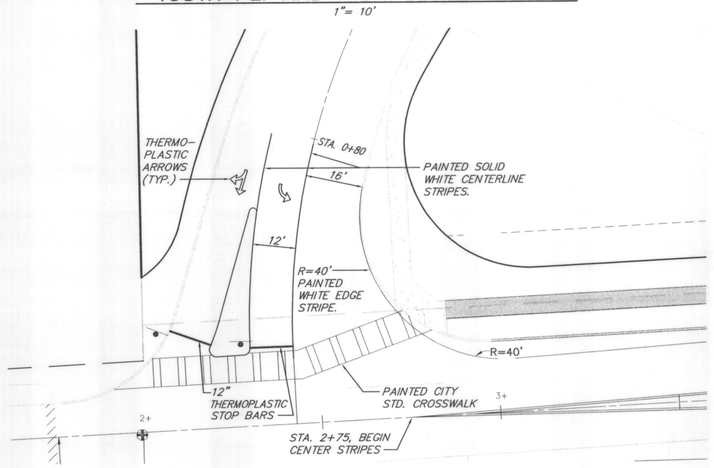


STRIPING DETAILS



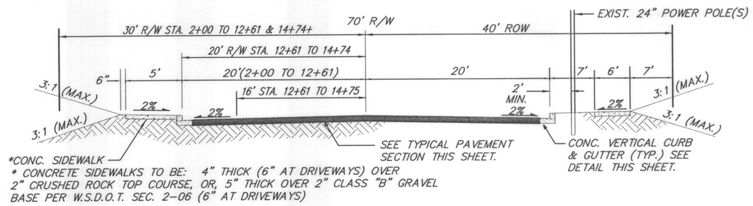
198TH PL. AND HIGH CLOVER BLVD.

1"= 10'



198TH PL. AND 47TH AVE. N.E.

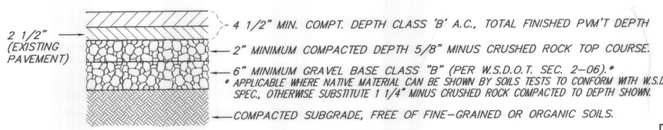
1"= 10'



* CONCRETE SIDEWALKS TO BE: 4" THICK (6" AT DRIVEWAYS) OVER 2" CRUSHED ROCK TOP COURSE, OR, 5" THICK OVER 2" CLASS "B" GRAVEL BASE PER W.S.D.O.T. SEC. 2-06 (6" AT DRIVEWAYS)

198TH PL. N.E. TYPICAL SECTION

NO SCALE



198TH PL. N.E. (DIVISION 1)

TYPICAL PAVEMENT SECTION

NO SCALE

WILLIAM J. LLOYD — STATE OF WASHINGTON — 19631 — REGISTERED PROFESSIONAL LAND SURVEYOR — EXPIRES 3-31-00

AS-BUILT
APPROVED FOR CONSTRUCTION
CITY OF ARLINGTON
3/1/99
11/19/97
SIGNATURE DATE

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NO.	REVISIONS	DATE
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WILLIAM J. LLOYD — STATE OF WASHINGTON — 19631 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 9-4-98

DODDS ENGINEERS, INC.
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BELLEVUE, WASHINGTON 98007
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198th PLACE N.E. IMPROVEMENTS
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4205 148TH AVE. N.E. SUITE 200
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DATE MAY 1997
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SHEET 19 OF 19

PROJECT NUMBER 90055

PH2DES\RDPLAN-3.DWG