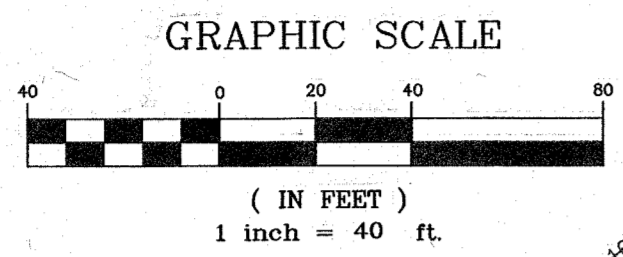


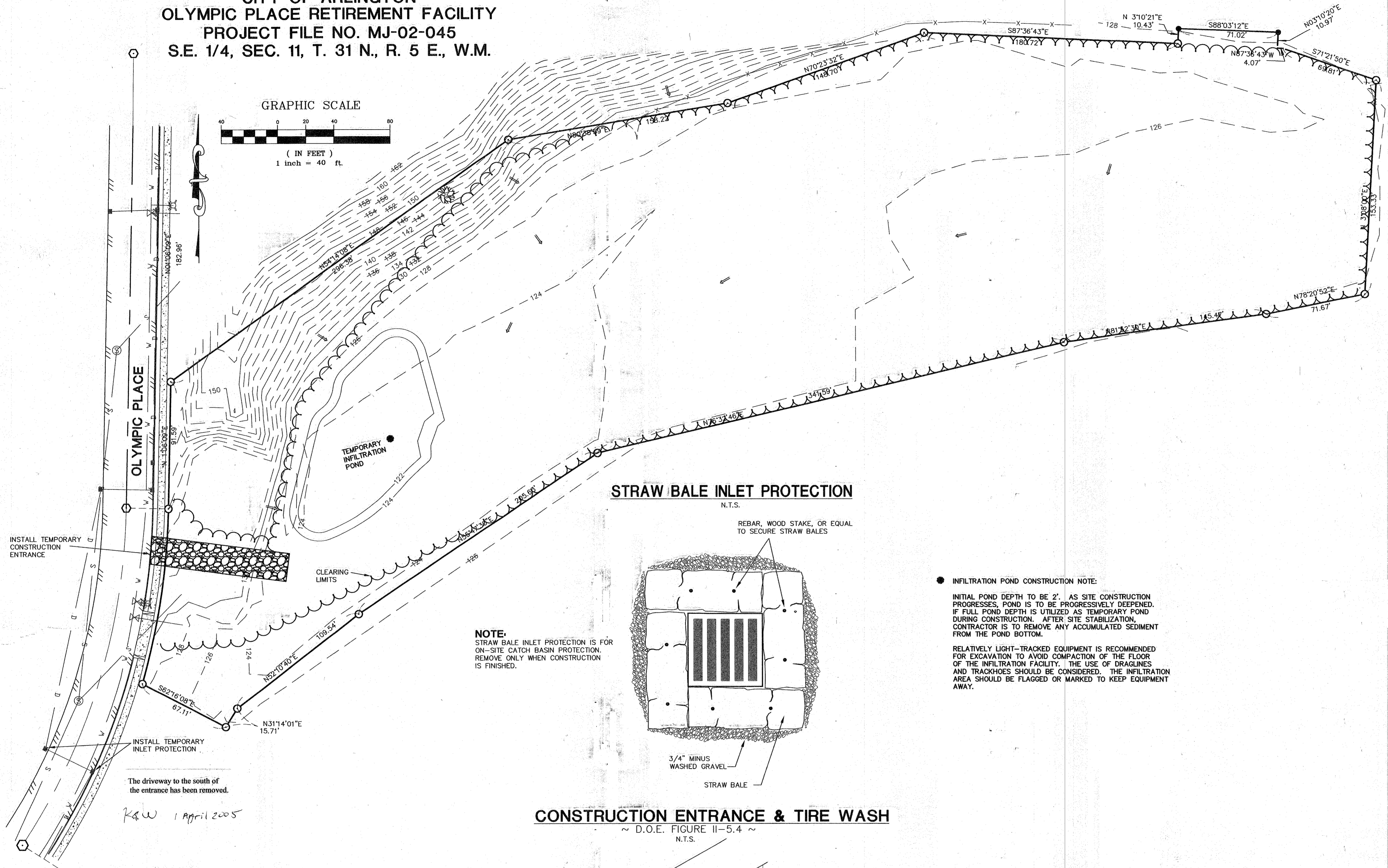


**CITY OF ARLINGTON  
OLYMPIC PLACE RETIREMENT FACILITY  
PROJECT FILE NO. MJ-02-045  
S.E. 1/4, SEC. 11, T. 31 N., R. 5 E., W.M.**

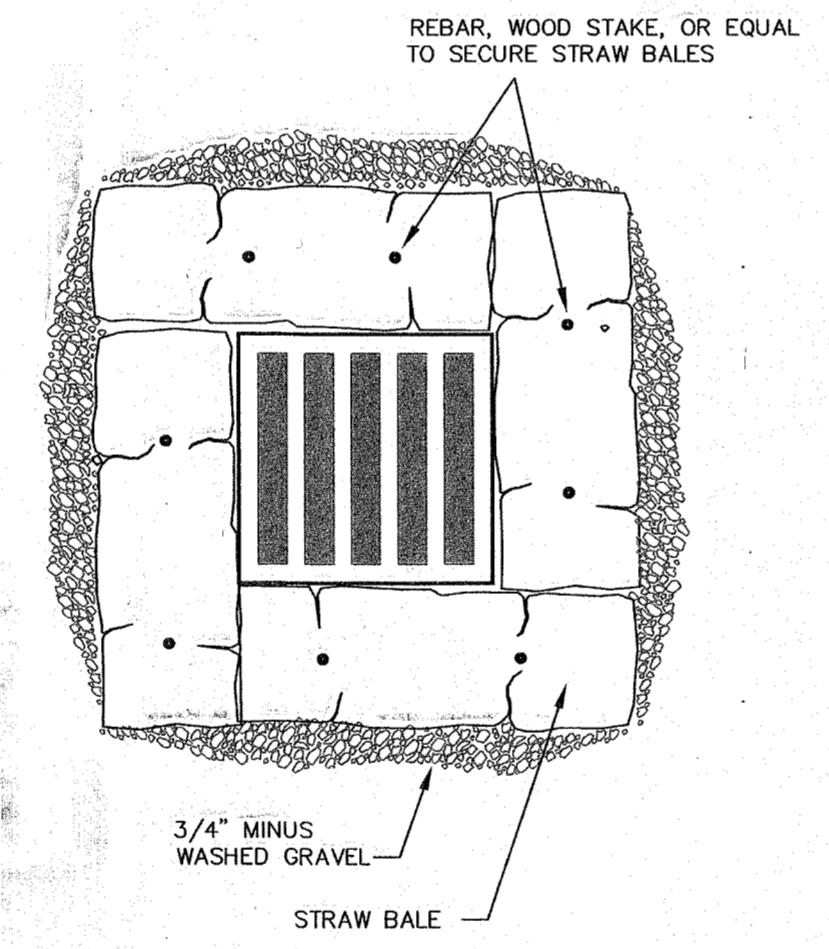


**LEGEND:**

	~ PROPERTY LINE
	~ 10 FOOT CONTOUR INTERVAL
	~ 2 FOOT CONTOUR INTERVAL
	~ CL EX. ROAD
	~ EXISTING CURB LINE AND SIDEWALK
	~ EXISTING STORM LINE
	~ EXISTING SEWER LINE
	~ EXISTING WATER LINE
	~ LIMITS OF CLEARING/GRADING
	~ DENOTES EXISTING FLOW



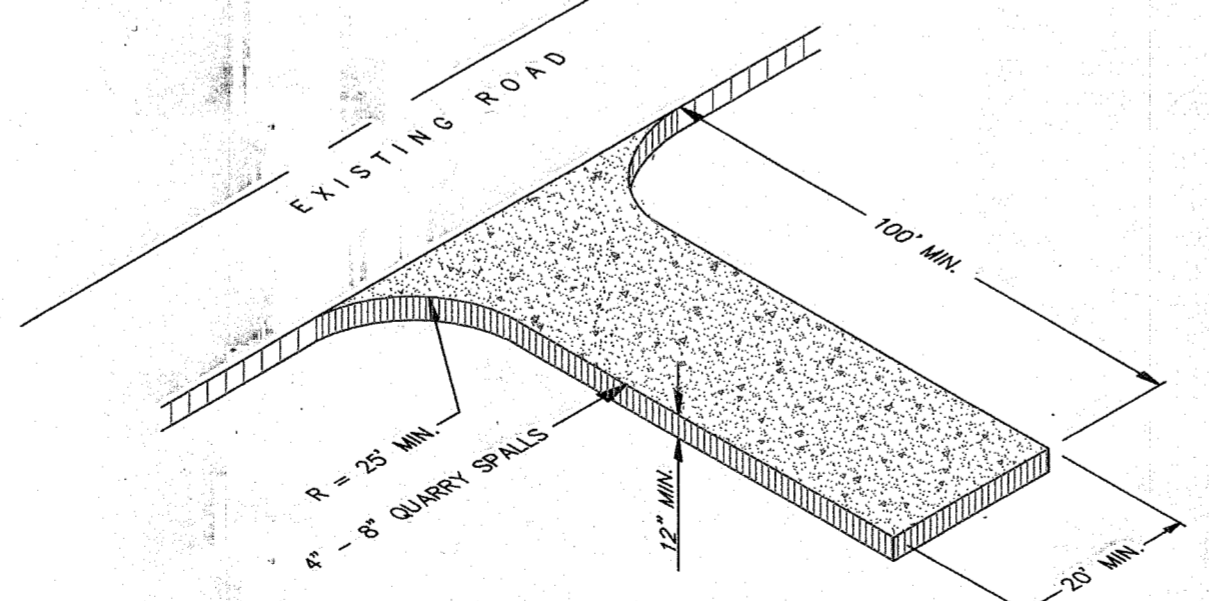
**STRAW BALE INLET PROTECTION**  
N.T.S.



**INFILTRATION POND CONSTRUCTION NOTE:**  
INITIAL POND DEPTH TO BE 2'. AS SITE CONSTRUCTION PROGRESSES, POND IS TO BE PROGRESSIVELY DEEPEMED. IF FULL POND DEPTH IS UTILIZED AS TEMPORARY POND DURING CONSTRUCTION, AFTER SITE STABILIZATION, CONTRACTOR IS TO REMOVE ANY ACCUMULATED SEDIMENT FROM THE POND BOTTOM.  
RELATIVELY LIGHT-TRACKED EQUIPMENT IS RECOMMENDED FOR EXCAVATION TO AVOID COMPACTION OF THE FLOOR OF THE INFILTRATION FACILITY. THE USE OF DRAGLINES AND TRACKHOES SHOULD BE CONSIDERED. THE INFILTRATION AREA SHOULD BE FLAGGED OR MARKED TO KEEP EQUIPMENT AWAY.

**NOTE:**  
STRAW BALE INLET PROTECTION IS FOR ON-SITE CATCH BASIN PROTECTION. REMOVE ONLY WHEN CONSTRUCTION IS FINISHED.

**CONSTRUCTION ENTRANCE & TIRE WASH**  
~ D.O.E. FIGURE II-5.4 ~  
N.T.S.

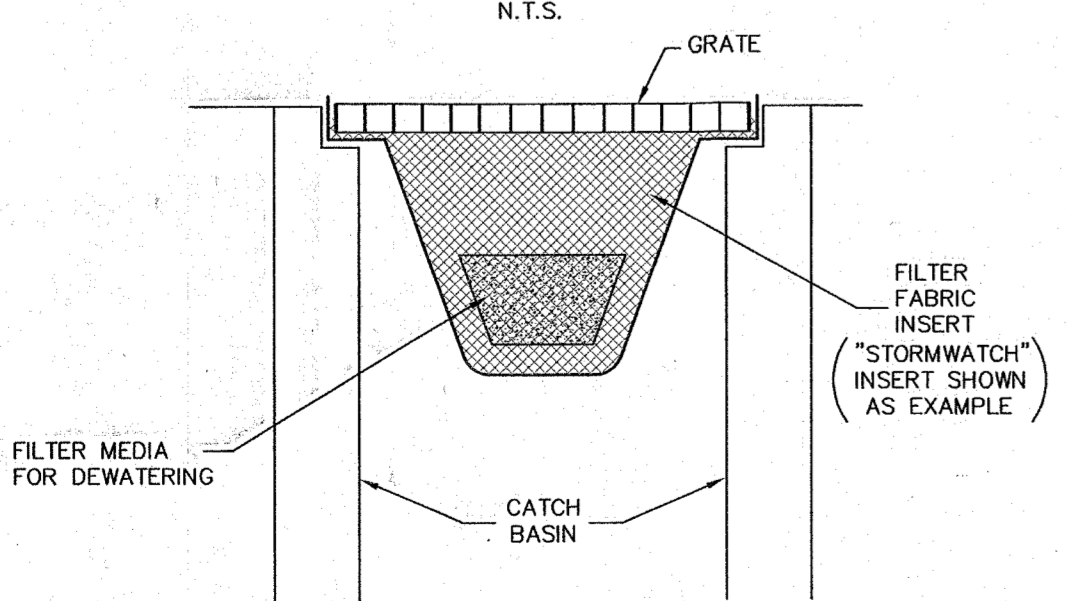


**MAINTENANCE:**  
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT THE TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF WAY. PERIODIC TOP DRESSING WITH 2" STONE MAY BE REQUIRED - AS CONDITIONS DEMAND. THE CONTRACTOR SHALL IMMEDIATELY REMOVE ALL DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED, FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS.

**WASHING:**  
IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM THE VEHICLES TIRES BY CONTACT WITH THE GRAVEL, THEN THE TIRES MUST BE WASHED OFF BEFORE THE VEHICLES ENTER A PUBLIC ROAD. THE WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.

**INSTALLATION:**  
THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS ON THE PLANS. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECS.

**TEMP. INLET PROTECTION**  
"SILT SACK"  
N.T.S.



**T.E.S.C. NOTES:**

- NON-COMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEERS NAME AND TELEPHONE NUMBER ARE CASCADE SURVEYING AND ENGINEERING, (360) 435-5551.
- THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM, ESTABLISHED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER'S NAME AND TELEPHONE NUMBER ARE CASCADE SURVEYING AND ENGINEERING, (360) 435-5551.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- ALL SITE WORK MUST COMPLY TO CHAPTER 33 OF THE UNIFORM BUILDING CODE, (1997 EDITION)
- ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARDS. PRECONSTRUCTION SOILS INVESTIGATION MAY BE REQUIRED TO EVALUATE SOILS STABILITY.
- PUBLIC STREETS ARE TO BE KEPT CLEAR OF DIRT AND DEBRIS DURING EXCAVATION AND FILL OPERATIONS.
- THE SITE SOILS ARE GENERALLY CONSIDERED MOISTURE SENSITIVE AND AS SUCH ARE SUSCEPTIBLE TO DISTURBANCE BY CONSTRUCTION EQUIPMENT, PARTICULARLY DURING PERIODS OF WET WEATHER. THE GRADING CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EXCESSIVE RUNOFF EROSION.
- ALL DISTURBED AREAS AND TEMPORARY STOCK PILES SHALL BE SEEDDED WITH A TEMPORARY SEED MIX CONSISTING OF 10% COLONIAL BENTGRASS, 40% PERENNIAL RYE, 40% CREEPING RED FESCUE, 10% WHITE CLOVER. HYDRO-SEED PREFERRED.
- CATCH BASIN INSERTS SHALL BE INSTALLED IN ALL EXISTING CATCH BASINS THAT ARE DOWNSTREAM OF ACTIVE CONSTRUCTION ENTRANCES.
- ANY STORMWATER FLOWS DURING CONSTRUCTION TO BE DIRECTED TO A 2' DEEP TEMPORARY POND WITH 3:1 SIDE SLOPES. ADDITIONAL TEMPORARY PONDS MAY BE UTILIZED AS NECESSARY DURING CONSTRUCTION.
- DISTURBED PORTIONS OF THE SITE SHALL BE STABILIZED AS FOLLOWS:  
FROM OCTOBER 1 TO APRIL 30 : WITHIN 2 DAYS  
FROM MAY 1 TO SEPTEMBER 30 : WITHIN 7 DAYS
- SILT FENCE IF REQUIRED BY CITY ENGINEER SHALL BE INSTALLED PER CITY OF ARLINGTON STANDARD PLAN G-2.

**CASCADE & SURVEYING, INC.**  
Engineers Surveyors  
P.O. Box 368  
Arlington, Washington 98223  
(360) 435-5551  
FAX: (360) 435-5552  
1-800-983-5551

**REGISTERED PROFESSIONAL ENGINEER**  
CASCADIA STATE  
No. 3578  
Expires: 12/31/24

REV.	PER CITY COMMENTS	DATE	BY
1		7/10/03	DP

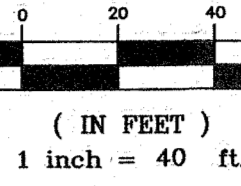
DESIGNED	DATE 9/02
DRAWN	D.P. DATE 9/02
CHECKED	K.E. DATE 9/02
FIELD BOOK	ARL. 73, 88

**TESC PLAN**  
OLYMPIC PLACE RETIREMENT FACILITY  
FILE NO. MJ-02-045

**CITY OF ARLINGTON**  
THIS SHEET HAS BEEN APPROVED PER THE CONDITIONS ON THE COVER SHEET.  
BY: CITY ENGINEER  
DATE: 29 APR 05

CITY OF ARLINGTON  
OLYMPIC PLACE RETIREMENT FACILITY  
PROJECT FILE NO. MJ-02-045  
S.E. 1/4, SEC. 11, T. 31 N., R. 5 E., W.M.

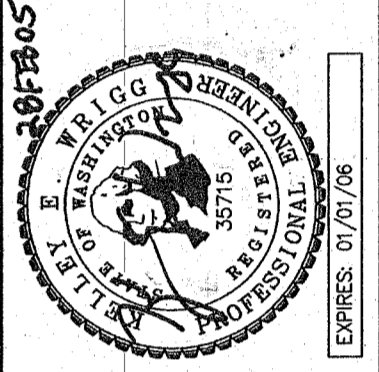
GRAPHIC SCALE



LEGEND:

- 128 — PROPERTY LINE
- 130 — 2 FOOT CONTOUR INTERVAL
- 130 — 10 FOOT CONTOUR INTERVAL
- CL — CL EX. ROAD
- CL — CL PROPOSED DRIVEWAY
- S — EXISTING SEWER LINE
- S — EXISTING WATER LINE
- S — EX. WATER LINE
- S — PROPOSED SEWER LINE
- S — PROPOSED STORM LINE
- S — PROPOSED WATER LINE
- — EXISTING CURB LINE AND SIDEWALK

**CASCADE SURVEYING & ENGINEERING, INC.**  
Engineers Surveyors Planners  
P.O. BOX 326  
ARLINGTON, WASHINGTON 98223  
(800)435-5551  
1-800-583-5551

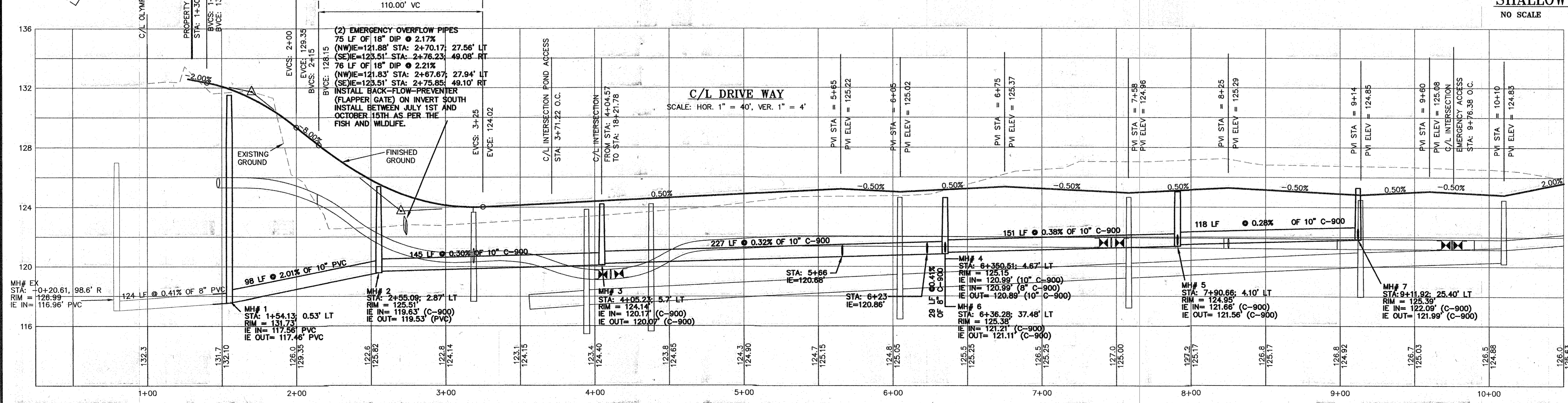
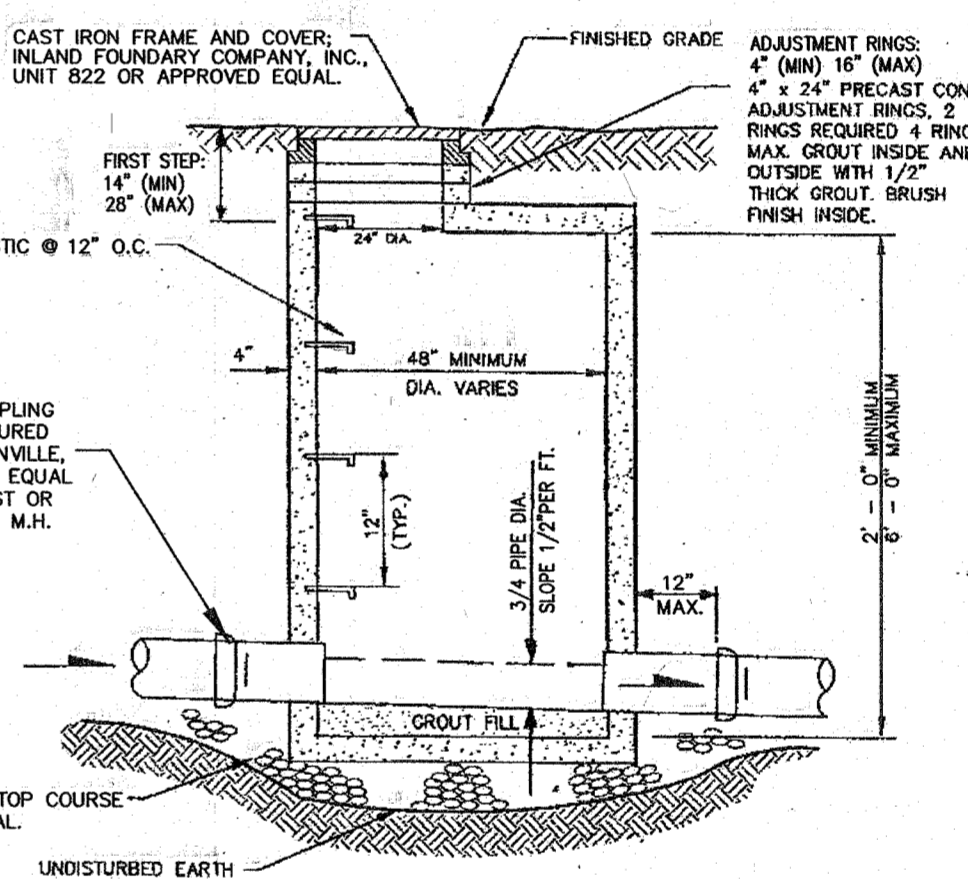
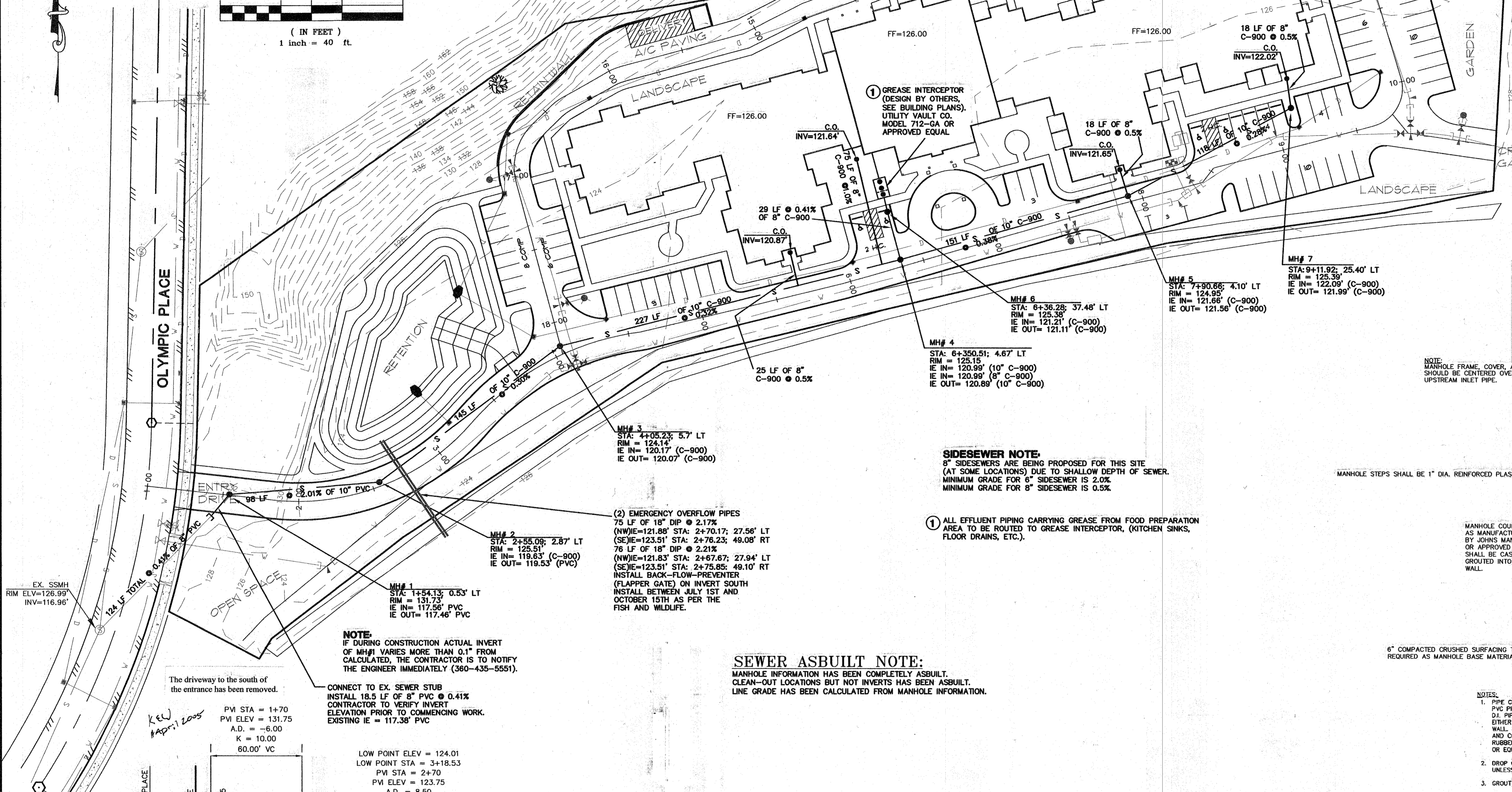


DESIGNED	R.L.D.	DATE	9/02
DRAWN	D.P.	DATE	9/02
CHECKED	K.E.W.	DATE	9/02
FIELD BOOK	ARL 73, 88	REVISION	
DATE	09/20/04	TAA	BY

DESIGNED	R.L.D.	DATE	9/02
DRAWN	D.P.	DATE	9/02
CHECKED	K.E.W.	DATE	9/02
FIELD BOOK	ARL 73, 88	REVISION	

**AS-BUILT DRAWING**  
**SEWER PLAN**  
OLYMPIC PLACE RETIREMENT FACILITY  
FILE NO. MJ-02-045

3 OF 8  
# 14919

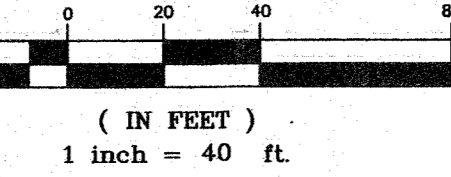


CALL 48 HOURS  
BEFORE YOU DIG  
1-800-424-5555

CITY OF ARLINGTON  
THIS SHEET HAS BEEN APPROVED PER THE CONDITIONS ON THE COVER SHEET.  
BY: [Signature] CITY ENGINEER  
DATE: 29 APR 05

**CITY OF ARLINGTON  
OLYMPIC PLACE RETIREMENT FACILITY  
PROJECT FILE NO. MJ-02-045  
S.E. 1/4, SEC. 11, T. 31 N., R. 5 E., W.M.**

GRAPHIC SCALE

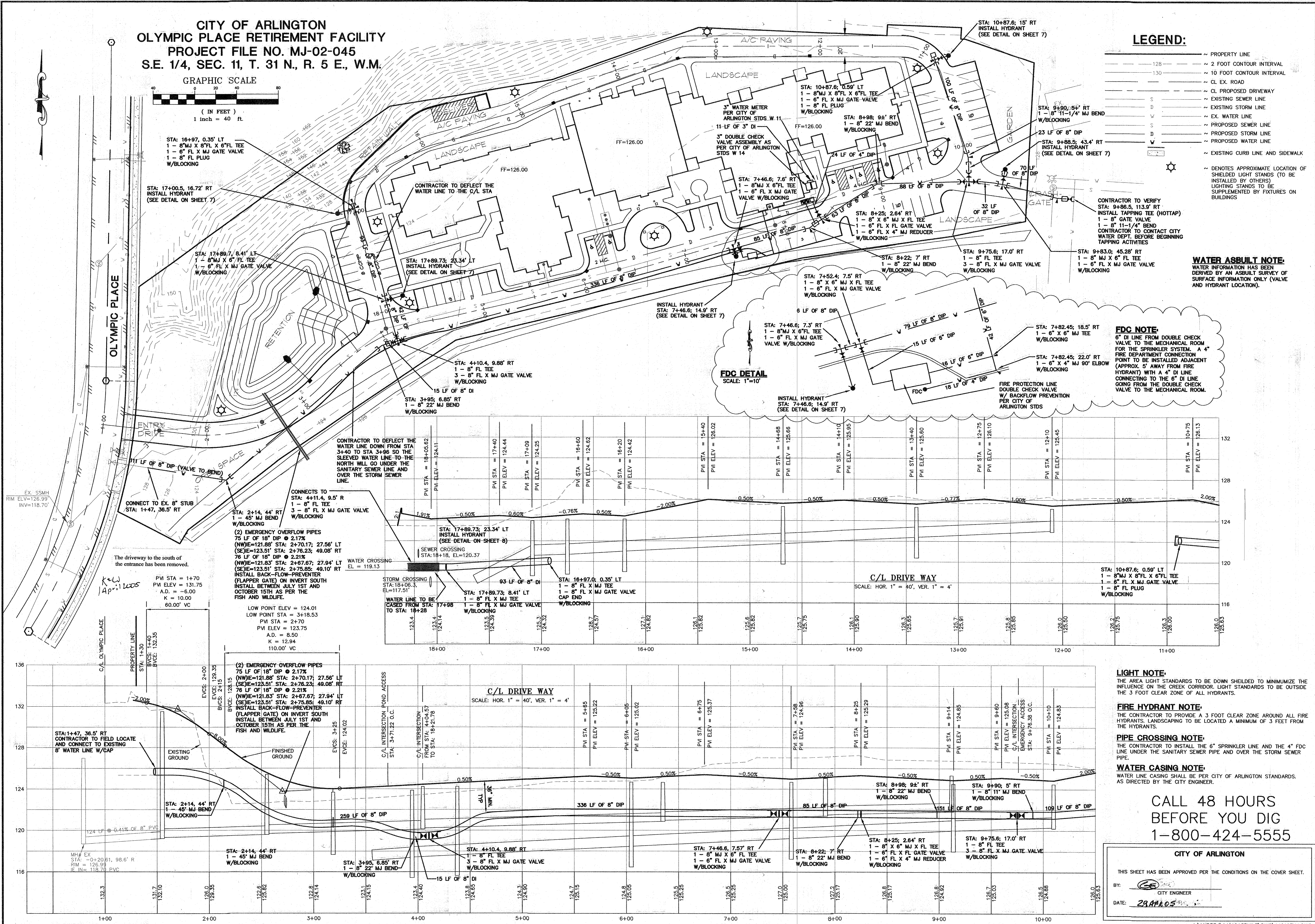


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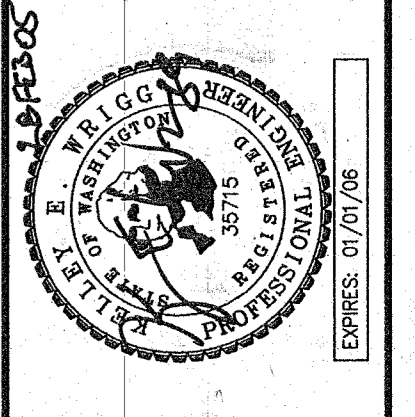
- ~ PROPERTY LINE
- - - 2 FOOT CONTOUR INTERVAL
- - - 10 FOOT CONTOUR INTERVAL
- - - CL. EX. ROAD
- - - CL. PROPOSED DRIVEWAY
- - - EXISTING SEWER LINE
- - - EXISTING STORM LINE
- - - EX. WATER LINE
- - - PROPOSED SEWER LINE
- - - PROPOSED STORM LINE
- - - PROPOSED WATER LINE
- - - EXISTING CURB LINE AND SIDEWALK
- ☉ DENOTES APPROXIMATE LOCATION OF SHIELDED LIGHT STANDS (TO BE INSTALLED BY OTHERS) LIGHTING STANDS TO BE SUPPLEMENTED BY FIXTURES ON BUILDINGS

**WATER ASBUILT NOTE:**  
WATER INFORMATION HAS BEEN DERIVED BY AN ASBUILT SURVEY OF SURFACE INFORMATION ONLY (VALVE AND HYDRANT LOCATION).

**FDC NOTE:**  
6" DI LINE FROM DOUBLE CHECK VALVE TO THE MECHANICAL ROOM FOR THE SPRINKLER SYSTEM. A 4" FIRE DEPARTMENT CONNECTION POINT TO BE INSTALLED ADJACENT (APPROX. 5' AWAY FROM FIRE HYDRANT) WITH A 4" DI LINE CONNECTING TO THE 6" DI LINE GOING FROM THE DOUBLE CHECK VALVE TO THE MECHANICAL ROOM.



**CASCADE SURVEYING & ENGINEERING, INC.**  
Engineers - Surveyors  
P.O. BOX 328  
ARLINGTON, WASHINGTON 98023  
(360)435-5551  
1-800-935-5551



DESIGNED	R.L.D.	DATE	9/02
DRAWN	D.P.	DATE	9/02
CHECKED	K.E.M.	DATE	9/02
FIELD BOOK	ARL. 75	BY	TAA
ADDED AS-BUILT INFORMATION		DATE	09/20/04
REVISION		DATE	

**AS-BUILT DRAWING**  
**WATER & LIGHTING PLAN**  
OLYMPIC PLACE RETIREMENT FACILITY  
FILE NO. MJ-02-045

**LIGHT NOTE:**  
THE AREA LIGHT STANDARDS TO BE DOWN SHIELDED TO MINIMIZE THE INFLUENCE ON THE CREEK CORRIDOR. LIGHT STANDARDS TO BE OUTSIDE THE 3 FOOT CLEAR ZONE OF ALL HYDRANTS.

**FIRE HYDRANT NOTE:**  
THE CONTRACTOR TO PROVIDE A 3 FOOT CLEAR ZONE AROUND ALL FIRE HYDRANTS. LANDSCAPING TO BE LOCATED A MINIMUM OF 3 FEET FROM THE HYDRANTS.

**PIPE CROSSING NOTE:**  
THE CONTRACTOR TO INSTALL THE 6" SPRINKLER LINE AND THE 4" FDC LINE UNDER THE SANITARY SEWER PIPE AND OVER THE STORM SEWER PIPE.

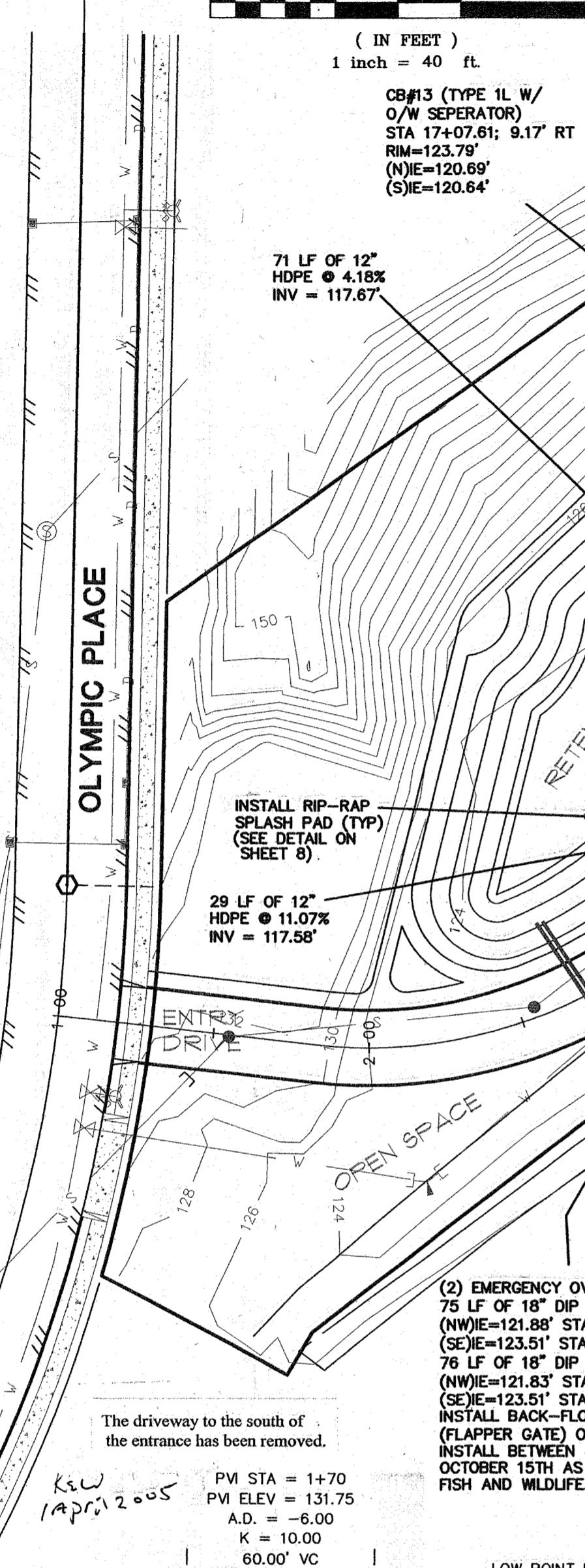
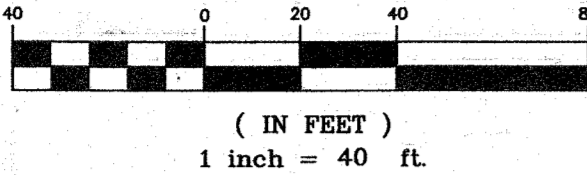
**WATER CASING NOTE:**  
WATER LINE CASING SHALL BE PER CITY OF ARLINGTON STANDARDS. AS DIRECTED BY THE CITY ENGINEER.

**CALL 48 HOURS BEFORE YOU DIG**  
1-800-424-5555

**CITY OF ARLINGTON**  
THIS SHEET HAS BEEN APPROVED PER THE CONDITIONS ON THE COVER SHEET.  
BY: [Signature]  
CITY ENGINEER  
DATE: 2/24/05

CITY OF ARLINGTON  
OLYMPIC PLACE RETIREMENT FACILITY  
PROJECT FILE NO. MJ-02-045  
S.E. 1/4, SEC. 11, T. 31 N., R. 5 E., W.M.

GRAPHIC SCALE



**LEGEND:**

- PROPERTY LINE
- - 2 FOOT CONTOUR INTERVAL
- - - 10 FOOT CONTOUR INTERVAL
- CL EX. ROAD
- - CL PROPOSED DRIVEWAY
- EXISTING SEWER LINE
- - EXISTING STORM LINE
- EX. WATER LINE
- - PROPOSED SEWER LINE
- - PROPOSED STORM LINE
- - PROPOSED WATER LINE
- - PROPOSED YD 6" PVC
- - PROPOSED YARD DRAIN
- - PROPOSED CLEANOUT
- - EXISTING CURB LINE AND SIDEWALK

**ROAD & STORM SYSTEM NOTES:**

1. IN WIDENING AREAS, THE EXISTING PAVEMENT EDGE SHALL BE SAW-CUT TO LEAVE A JOINT POINT. ANY TRAFFIC STRIPING REMOVED OR DAMAGED DURING WIDENING WORK SHALL BE REPLACED IN KIND OR AS DIRECTED BY THE CITY ENGINEER.
2. COMPACTION TESTS ON SUBGRADE AND SURFACING SHALL BE REQUIRED. THE NUMBER OF TESTS SHALL BE AT THE DISCRETION OF THE CITY INSPECTOR. ALL TESTING SHALL BE THROUGH A LICENSED TESTING LABORATORY. THE MINIMUM COMPACTION SHALL BE 95% OF MAXIMUM DENSITY ON BOTH SUBGRADE AND SURFACING.
3. ADJUSTMENT OF CATCHBASIN LIDS OR GRATES, MONUMENT CASES, VALVE BOXES, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (RAISED OR CUT IN).
4. ROADWAY SECTION MAY BE ADJUSTED WITH THE APPROVAL OF THE CITY ENGINEER UPON SUBMISSION OF SUBSTANTIATING ENGINEERING DATA (CBR, ETC.) TO SUPPORT THE ADJUSTMENT. FOR DESIGN PURPOSES, THE MINIMUM THICKNESS OF CLASS B ASPHALT SHALL BE 3" COMPACTED DEPTH. COMPACTION SHALL BE AN AVERAGE OF 92% OF DRY DENSITY, WSDOT TEST METHOD 705.
5. STORM PIPE MAY BE OF ANY TYPE ALLOWED BY THE CITY OF ARLINGTON EXCEPT WHERE A SPECIFIC TYPE IS MENTIONED ON THESE PLANS.
6. YARD DRAINS SHALL BE INSTALLED AS PER STANDARD PLAN SD 14 WITH A POURED CONCRETE CHANNELLED BOTTOM. ALL CONNECTING PIPES TO BE 6" PVC, SDR 35, 3034.

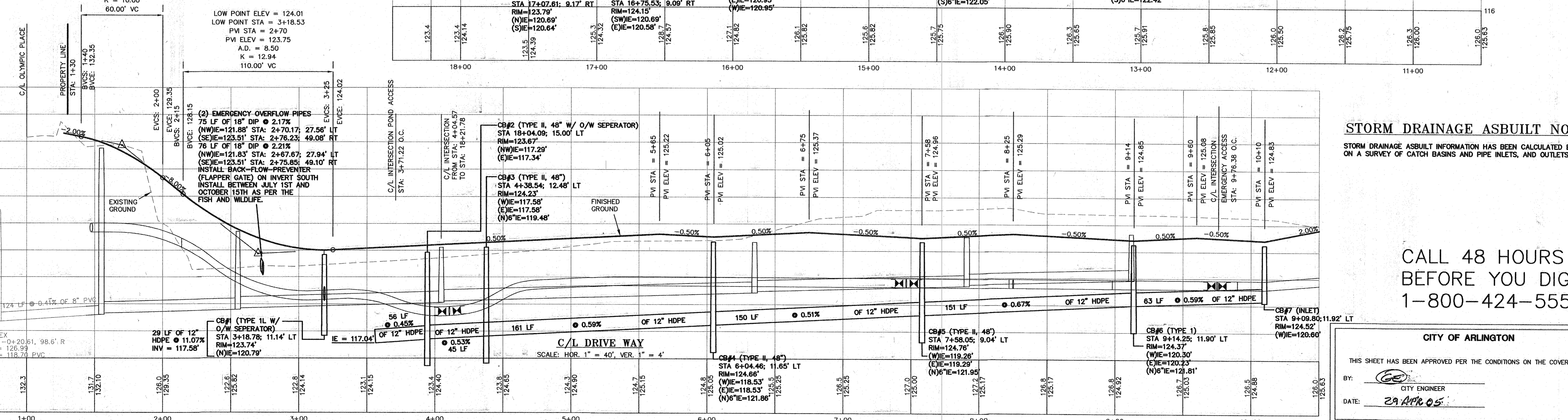
**ROOF & FOOTING DRAINS:**

BUILDING ROOF AND FOOTING DRAINS TO BE CONNECTED TO CATCHBASINS. NO DIRECT CONNECTION TO STORM PIPE IS TO BE MADE.

The driveway to the south of the entrance has been removed.

LOW POINT ELEV = 124.01  
LOW POINT STA = 3+78.53  
PVI STA = 2+70  
A.D. = 6.00  
K = 10.00  
110.00' VC

(2) EMERGENCY OVERFLOW PIPES  
75 LF OF 18" DIP @ 2.17%  
(NW)E=121.88' STA: 2+70.17; 27.56' LT  
(SE)E=123.51' STA: 2+76.23; 49.08' RT  
76 LF OF 18" DIP @ 2.21%  
(NW)E=121.83' STA: 2+67.67; 27.94' LT  
(SE)E=123.51' STA: 2+75.85; 49.10' RT  
INSTALL BACK-FLOW-PREVENTER (FLAPPER GATE) ON INVERT SOUTH INSTALL BETWEEN JULY 1ST AND OCTOBER 15TH AS PER THE FISH AND WILDLIFE.



**STORM DRAINAGE ASBUILT NOTE:**

STORM DRAINAGE ASBUILT INFORMATION HAS BEEN CALCULATED BASED ON A SURVEY OF CATCH BASINS AND PIPE INLETS, AND OUTLETS.

CALL 48 HOURS  
BEFORE YOU DIG  
1-800-424-5555

CITY OF ARLINGTON  
THIS SHEET HAS BEEN APPROVED PER THE CONDITIONS ON THE COVER SHEET.  
BY: [Signature] CITY ENGINEER  
DATE: 29 APR 05

**CASCADE SURVEYING & ENGINEERING, INC.**

Engineers Surveyors

P.O. BOX 326 ARLINGTON, WASHINGTON 98223 (360)455-5551 FAX: (360)435-4012 1-800-583-5551

DESIGNED: DATE 9/02  
DRAWN: DATE 9/02  
CHECKED: K.E.W. DATE 9/02  
FIELD BOOK: ARL-73-88  
REVISION: 09/20/04 TAA BY: [Signature]

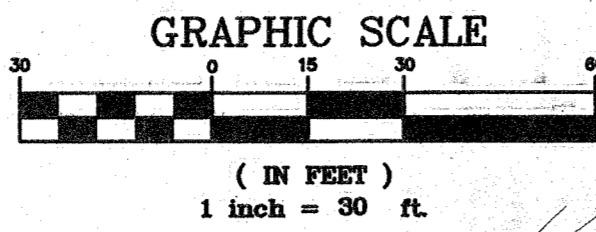
**AS-BUILT DRAWING  
DRAINAGE PLAN  
OLYMPIC PLACE RETIREMENT  
FACILITY  
FILE NO. MJ-02-045**

**5 OF 8**

**# 14919**

I:\LNDPR\14919ASBUILT\DWG\14919ENS.DWG ... 14919\14919ENS.DWG

**CITY OF ARLINGTON  
OLYMPIC PLACE RETIREMENT FACILITY  
PROJECT FILE NO. MJ-02-045  
S.E. 1/4, SEC. 11, T. 31 N., R. 5 E., W.M.**



**LEGEND:**

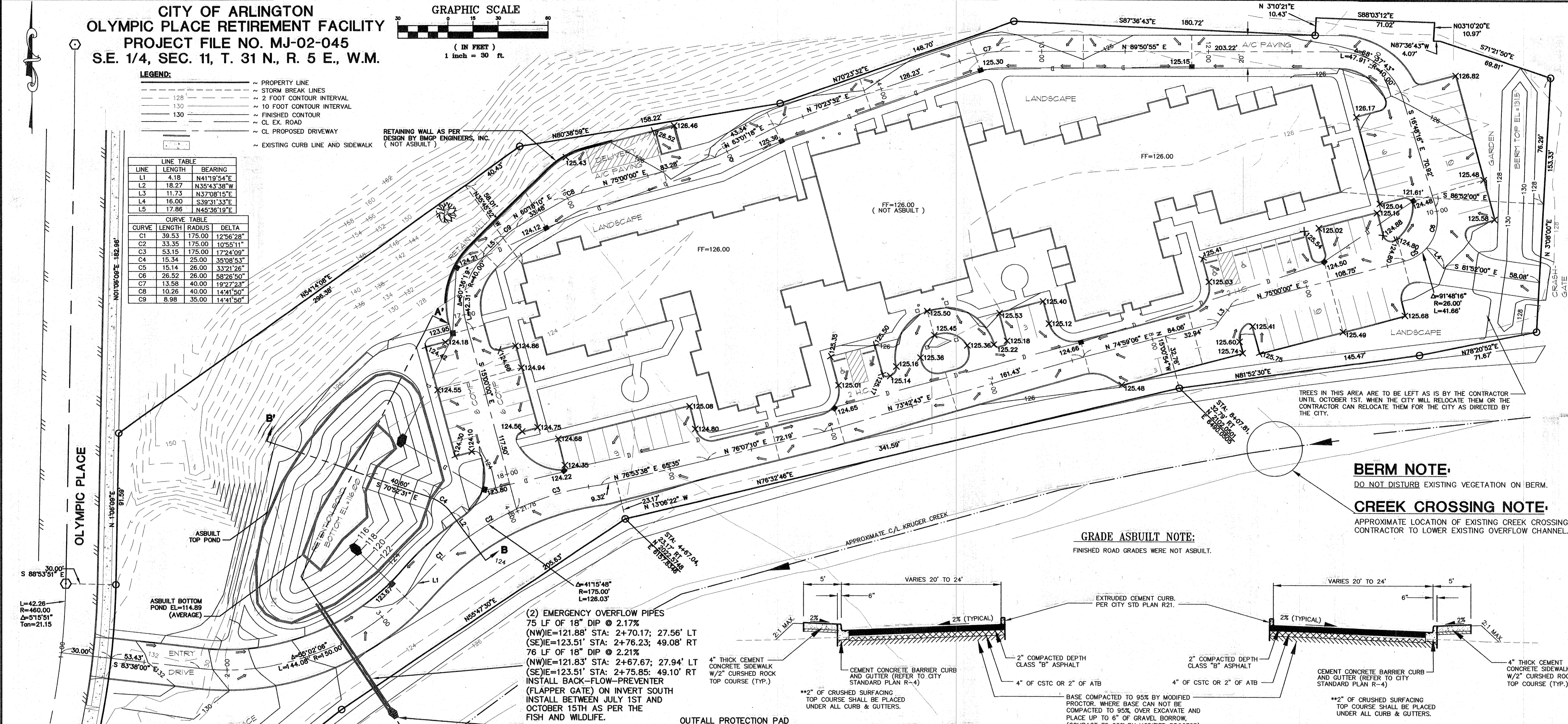
- PROPERTY LINE
- STORM BREAK LINES
- 2 FOOT CONTOUR INTERVAL
- 10 FOOT CONTOUR INTERVAL
- FINISHED CONTOUR
- CL EX. ROAD
- CL PROPOSED DRIVEWAY
- EXISTING CURB LINE AND SIDEWALK
- RETAINING WALL AS PER DESIGN BY BMOE ENGINEERS, INC. (NOT ASBUILT)

**LINE TABLE**

LINE	LENGTH	BEARING
L1	4.18	N41°19'54"E
L2	18.27	N35°43'38"W
L3	11.73	N37°08'15"E
L4	16.00	S39°31'33"E
L5	17.86	N45°38'19"E

**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA
C1	39.53	175.00	12°56'28"
C2	33.35	175.00	10°55'11"
C3	53.15	175.00	17°24'09"
C4	13.34	25.00	35°08'53"
C5	15.14	26.00	33°21'26"
C6	26.52	26.00	58°26'50"
C7	13.58	40.00	19°27'23"
C8	10.26	40.00	14°41'50"
C9	8.98	35.00	14°41'50"



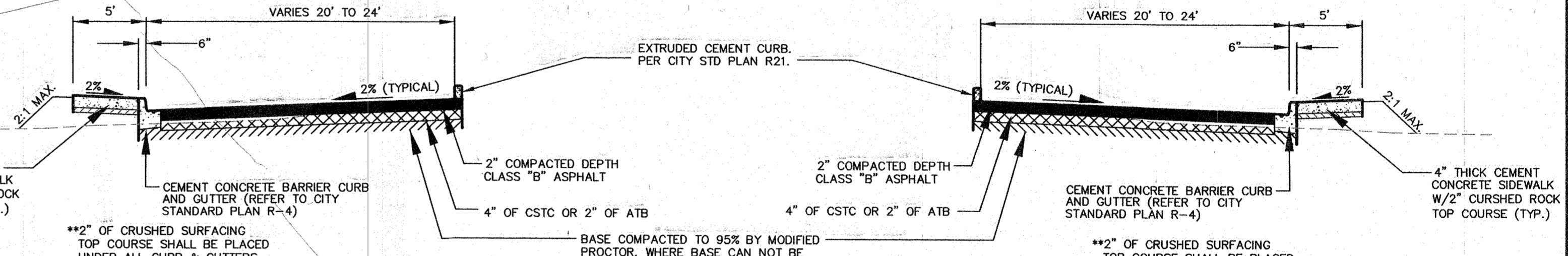
**BERM NOTE:**  
DO NOT DISTURB EXISTING VEGETATION ON BERM.

**CREEK CROSSING NOTE:**  
APPROXIMATE LOCATION OF EXISTING CREEK CROSSING. CONTRACTOR TO LOWER EXISTING OVERFLOW CHANNEL.

**GRADE ASBUILT NOTE:**  
FINISHED ROAD GRADES WERE NOT ASBUILT.

**(2) EMERGENCY OVERFLOW PIPES**  
75 LF OF 18" DIP @ 2.17%  
(NW)IE=121.88' STA: 2+70.17; 27.56' LT  
(SE)IE=123.51' STA: 2+76.23; 49.08' RT  
76 LF OF 18" DIP @ 2.21%  
(NW)IE=121.83' STA: 2+67.67; 27.94' LT  
(SE)IE=123.51' STA: 2+75.85; 49.10' RT  
INSTALL BACK-FLOW-PREVENTER (FLAPPER GATE) ON INVERT SOUTH INSTALL BETWEEN JULY 1ST AND OCTOBER 15TH AS PER THE FISH AND WILDLIFE.

**OUTFALL PROTECTION PAD (RIP RAP SPLASH PAD-TYP) (SEE DETAIL ON SHEET 8)**



**TYP DRIVEWAY SECTION**  
FROM STA: 0+30 TO STA: 16+60

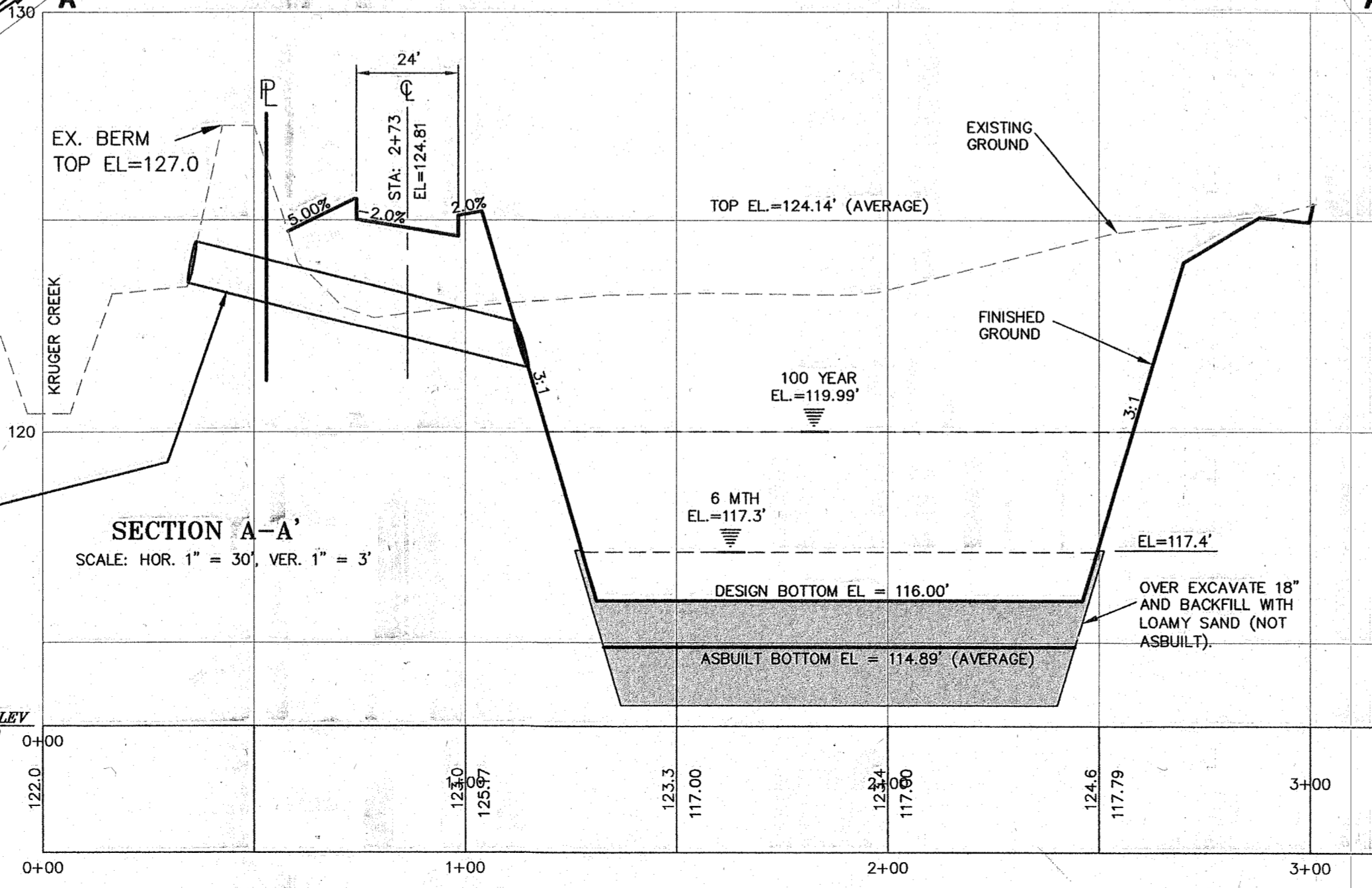
**TYP DRIVEWAY SECTION**  
FROM STA: 17+09 TO STA: 18+00

**POND ASBUILT SURVEY NOTE:**  
POND TOP AND BOTTOM WERE FIELD SURVEYED AND THE ASBUILT VOLUME CALCULATED FROM AVERAGE OF TOP AND BOTTOM ELEVATIONS AND DEPTH OF POND. PEAK STORAGE ELEVATION DURING STORM EVENTS HAVE NOT BEEN ADJUSTED BASED ON ASBUILT SURVEY.

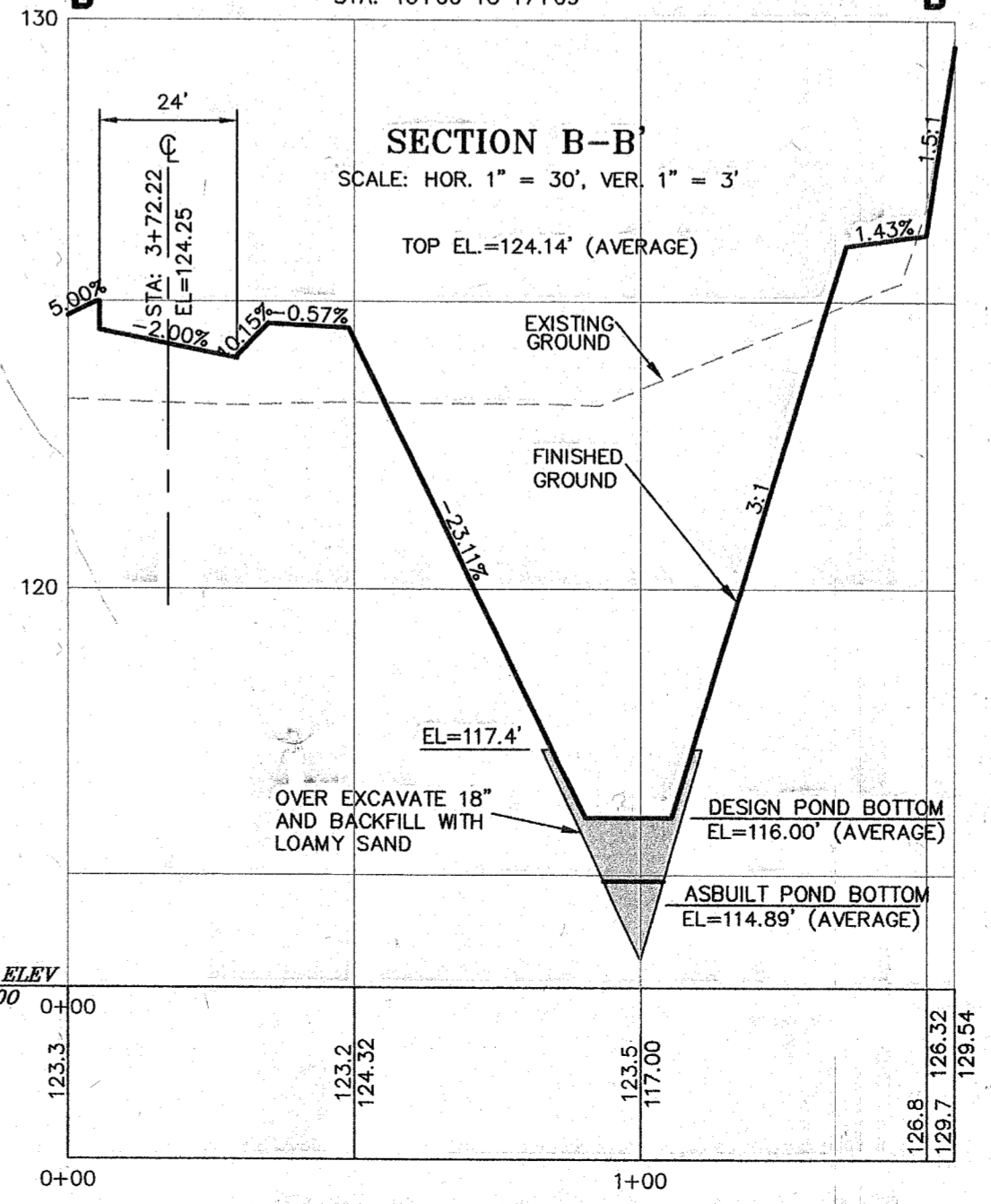
**POND VOLUME**

	DESIGN	AS-BUILT
CU YDS	56,604	55,944

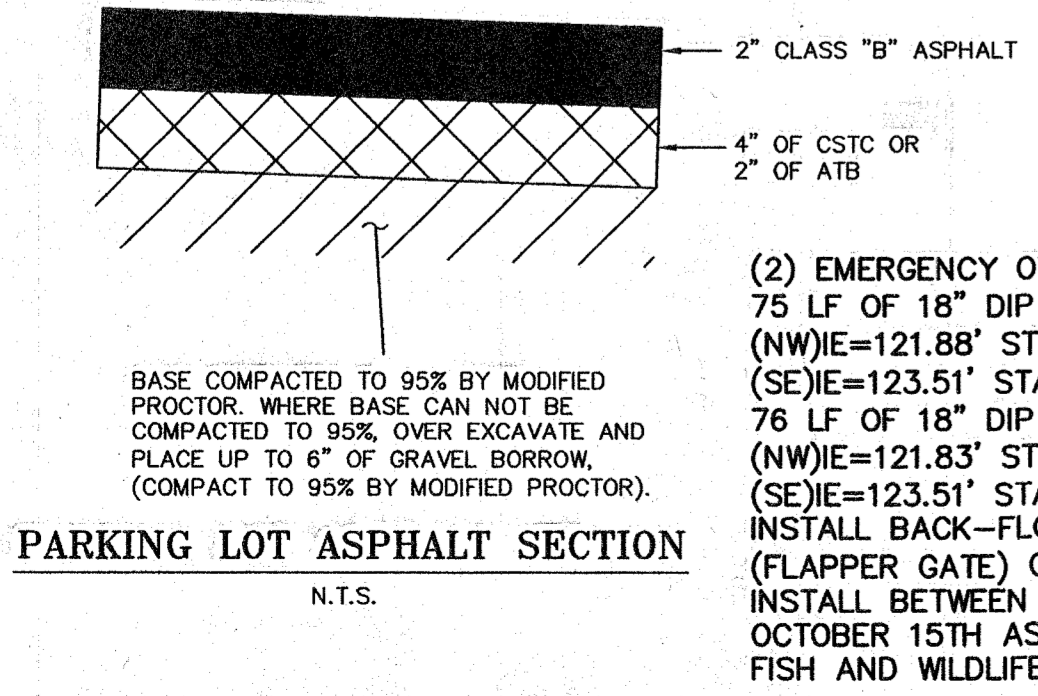
**CALL 48 HOURS BEFORE YOU DIG**  
1-800-424-5555



**SECTION A-A**  
SCALE: HOR. 1" = 30', VER. 1" = 3'



**SECTION B-B**  
SCALE: HOR. 1" = 30', VER. 1" = 3'



**PARKING LOT ASPHALT SECTION**  
N.T.S.

**(2) EMERGENCY OVERFLOW PIPES**  
75 LF OF 18" DIP @ 2.17%  
(NW)IE=121.88' STA: 2+70.17; 27.56' LT  
(SE)IE=123.51' STA: 2+76.23; 49.08' RT  
76 LF OF 18" DIP @ 2.21%  
(NW)IE=121.83' STA: 2+67.67; 27.94' LT  
(SE)IE=123.51' STA: 2+75.85; 49.10' RT  
INSTALL BACK-FLOW-PREVENTER (FLAPPER GATE) ON INVERT SOUTH INSTALL BETWEEN JULY 1ST AND OCTOBER 15TH AS PER THE FISH AND WILDLIFE.

**CITY OF ARLINGTON**  
THIS SHEET HAS BEEN APPROVED PER THE CONDITIONS ON THE COVER SHEET.  
BY: [Signature] CITY ENGINEER  
DATE: 29 APR 05

**CASCADE SURVEYING & ENGINEERING, INC.**  
Engineers Surveyors Planners  
P.O. BOX 326 ARLINGTON, WASHINGTON 98223 (360)435-5551  
FAX: (360)435-4012 I-800-583-5551

**AS-BUILT DRAWING GRADING PLAN OLYMPIC PLACE RETIREMENT FACILITY FILE NO. MJ-02-045**

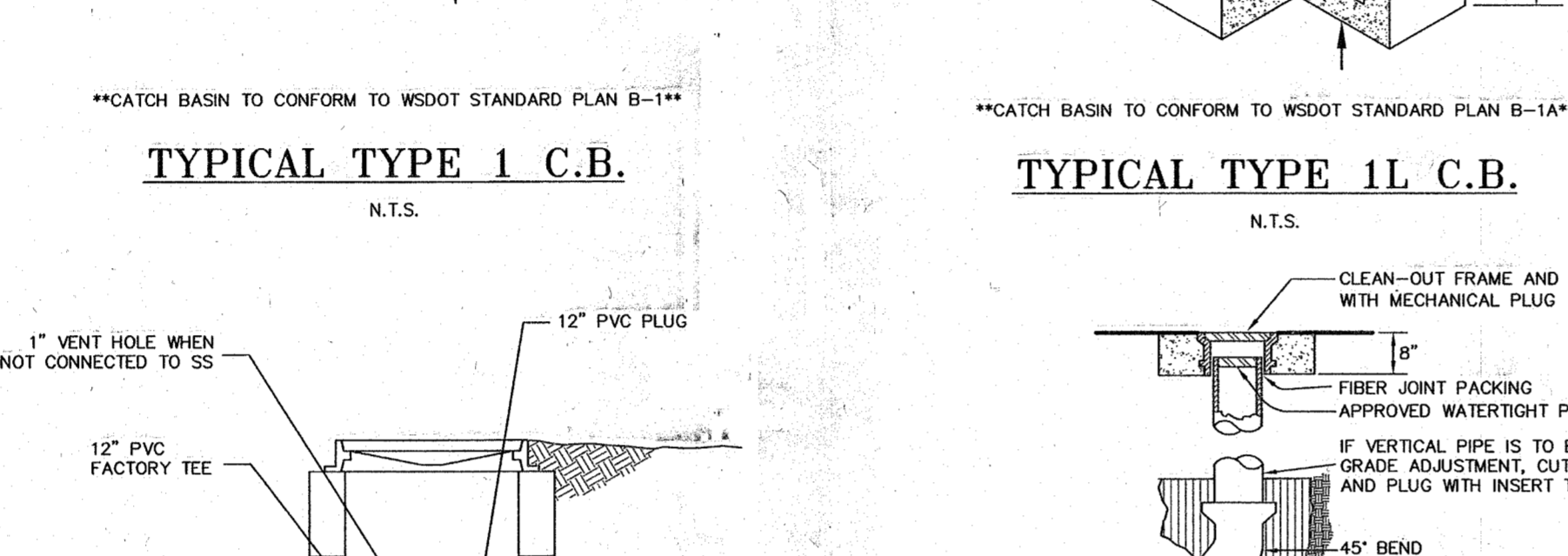
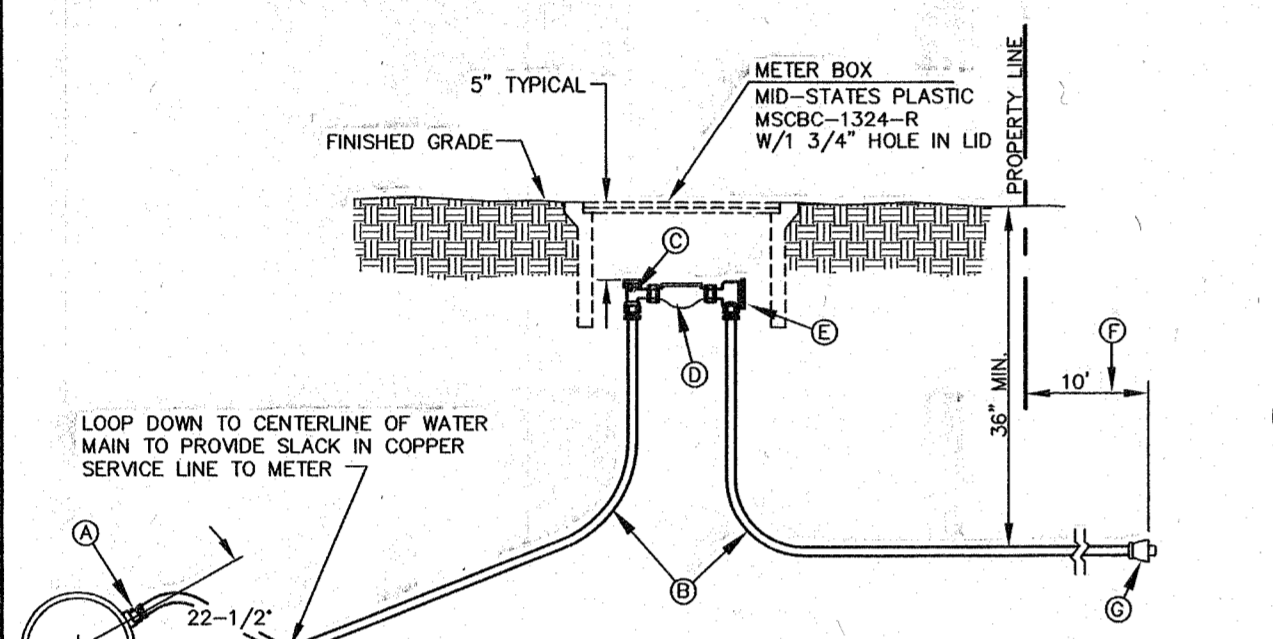
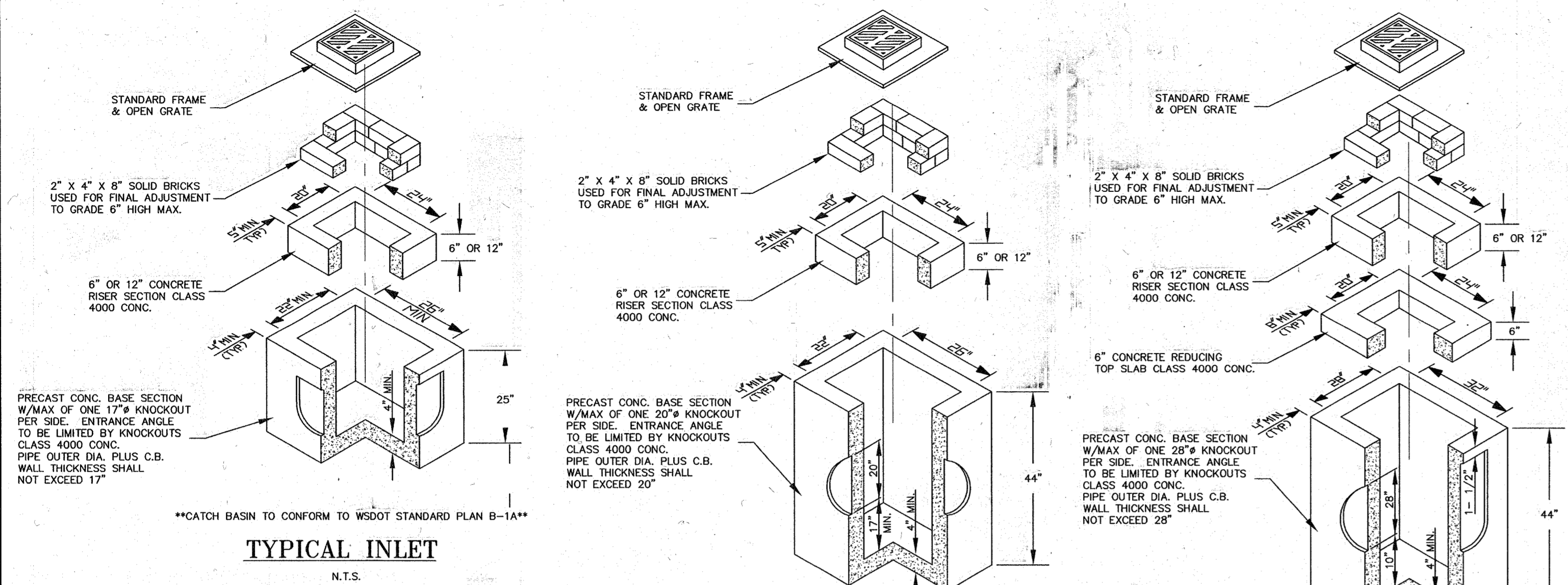
**6 OF 8**  
# 14919

DESIGNED: E.L.D. DATE: 9/02  
DRAWN: D.P. DATE: 9/02  
CHECKED: K.E.W. DATE: 9/02  
FIELD BOOK: ARL 73, 88

ADDED AS-BUILT INFORMATION: 09/20/04 TAA  
DATE: BY:

EXPRESSES: 07/07/06

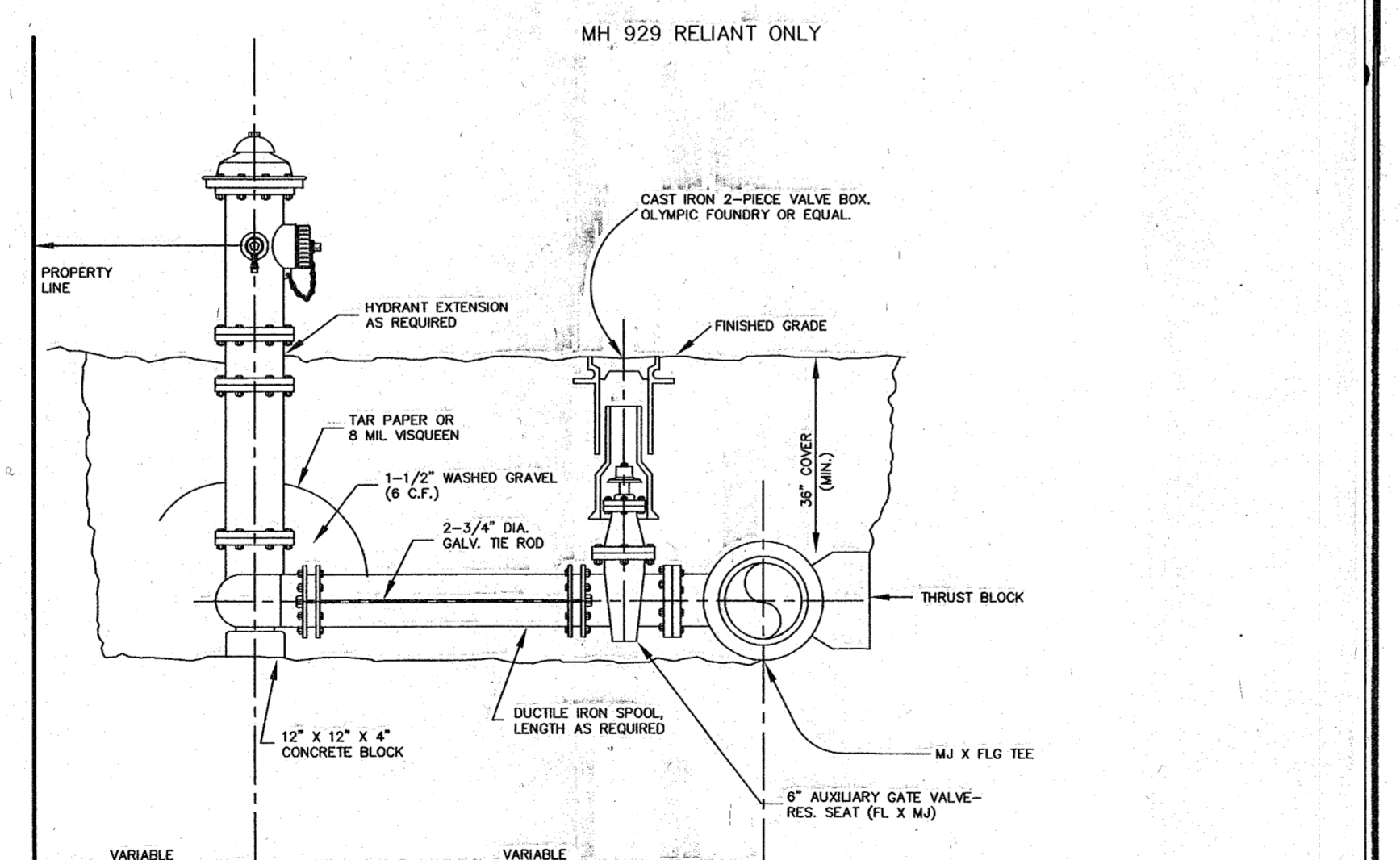
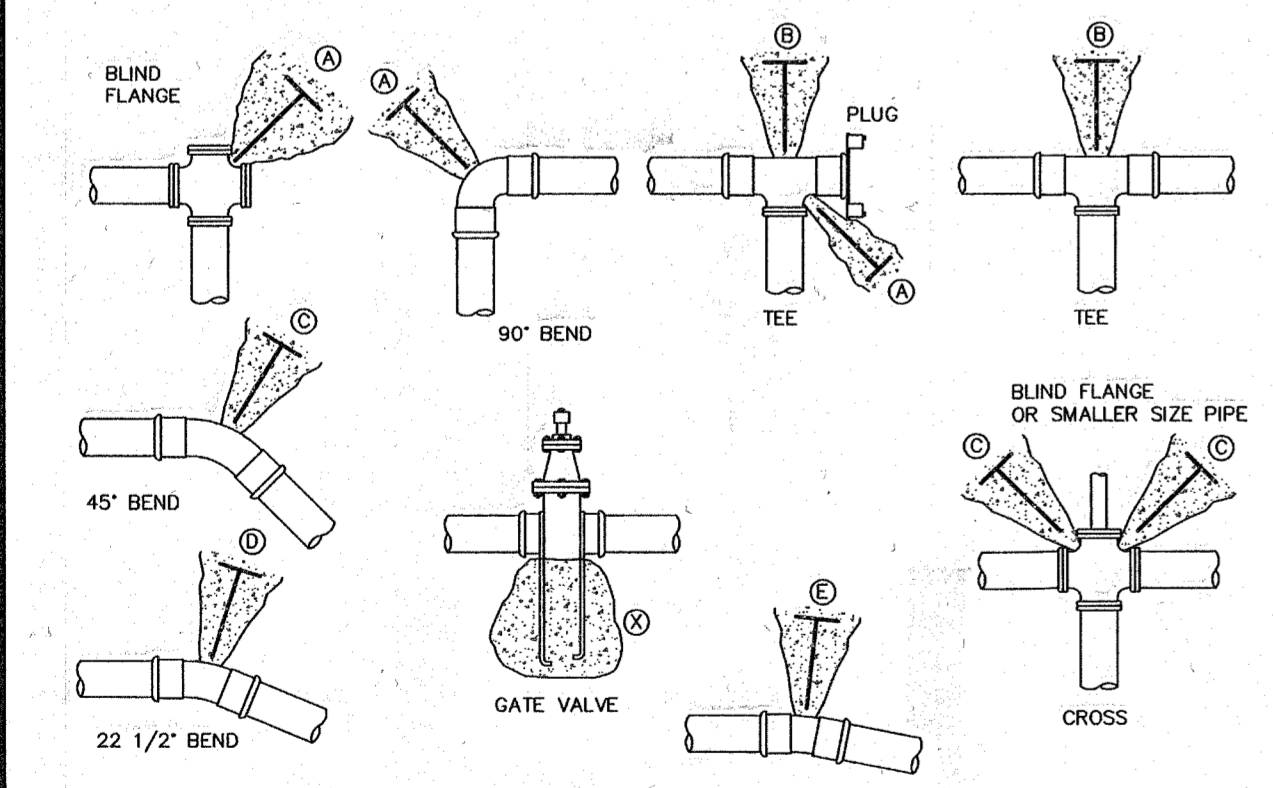
CITY OF ARLINGTON  
**OLYMPIC PLACE RETIREMENT FACILITY**  
 PROJECT FILE NO. MJ-02-045  
 S.E. 1/4, SEC. 11, T. 31 N., R. 5 E., W.M.



- NOTES:**
- CORPORATION STOP SHALL BE A BALL CORPORATION, EITHER FORD OR MULLER X MIFL OR C.C. THREADS. ALL OTHERS MUST BE APPROVED BY THE CITY OF ARLINGTON.
  - CTS CLASS 200 H MQL POLYPIPE. A #10 COPPER TRACE WIRE IS REQUIRED ON BOTH SIDES.
  - ANGLE BALL METER VALVE WITH LOCK WINGS, 1" N10 COMPRESSION X 3/4" METER. 1" SERVICES SHALL BE 1" N10 COMPRESSION X METER.
  - BLANK STUB THE LENGTH OF FUTURE WATER METER. (LENGTH VARIES DEPENDING ON SERVICE SIZE.)
  - 90° ANGLE CHECK COUPLING W/110 ADAPTER. 3/4" X 3/4" W/ 3/4" M.L.P. X 1" COMPRESSION.
  - CTS CLASS 200 H MQL POLYPIPE W/#10 COPPER TRACE WIRE. EXTEND 10' BEYOND PROPERTY LINE.
  - MUELLER 110 X LPT FEMALE ADAPTER AT END.

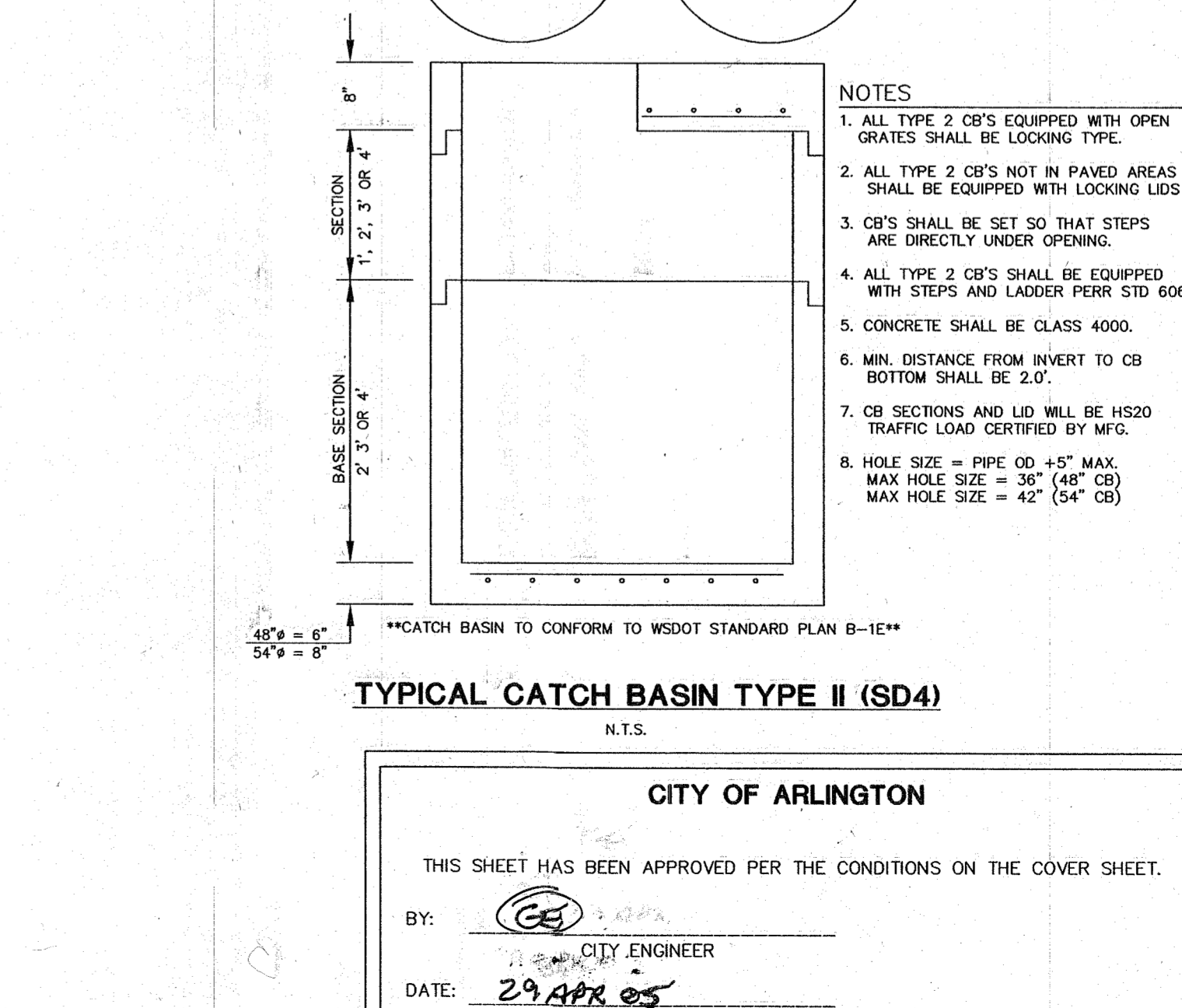
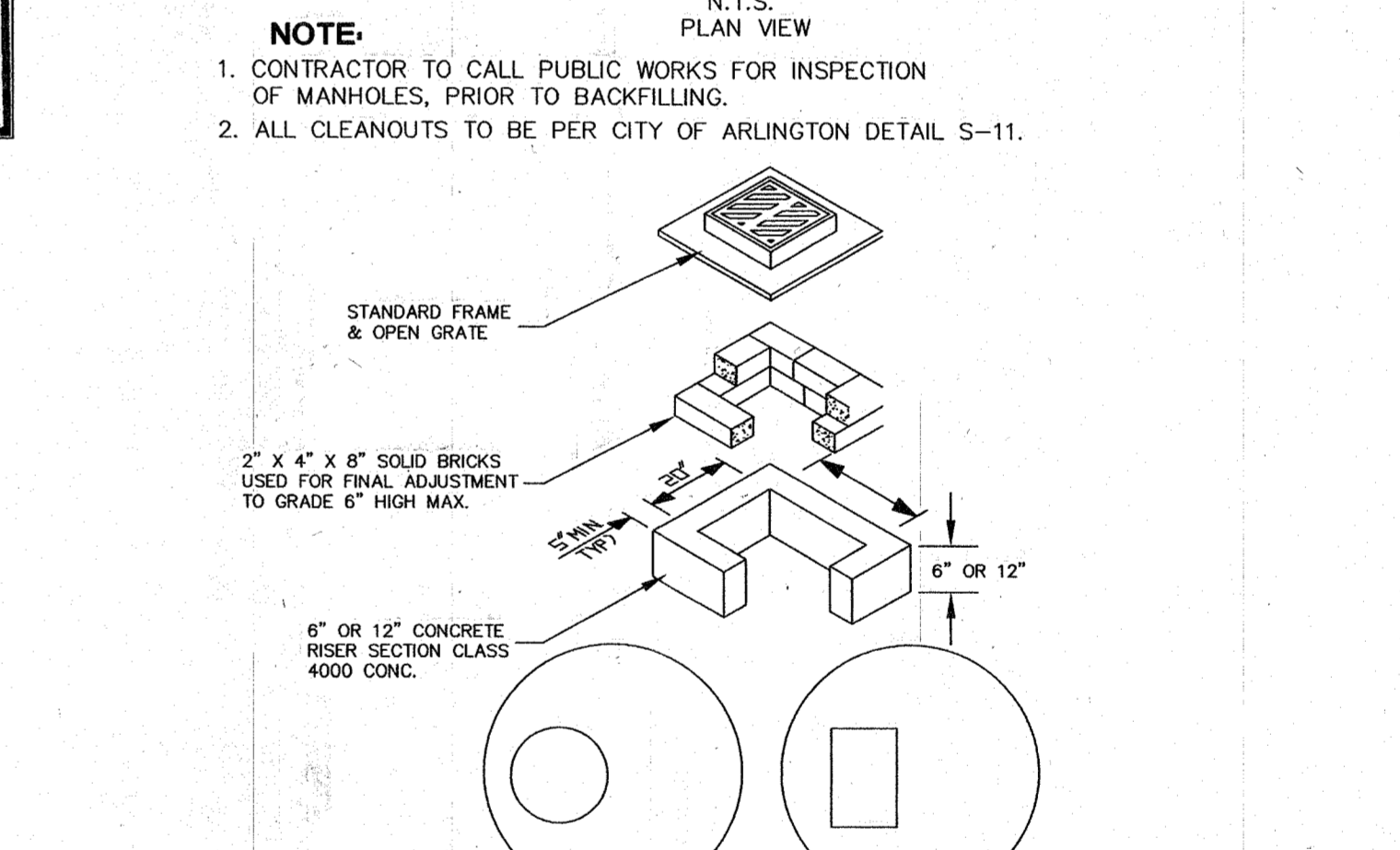
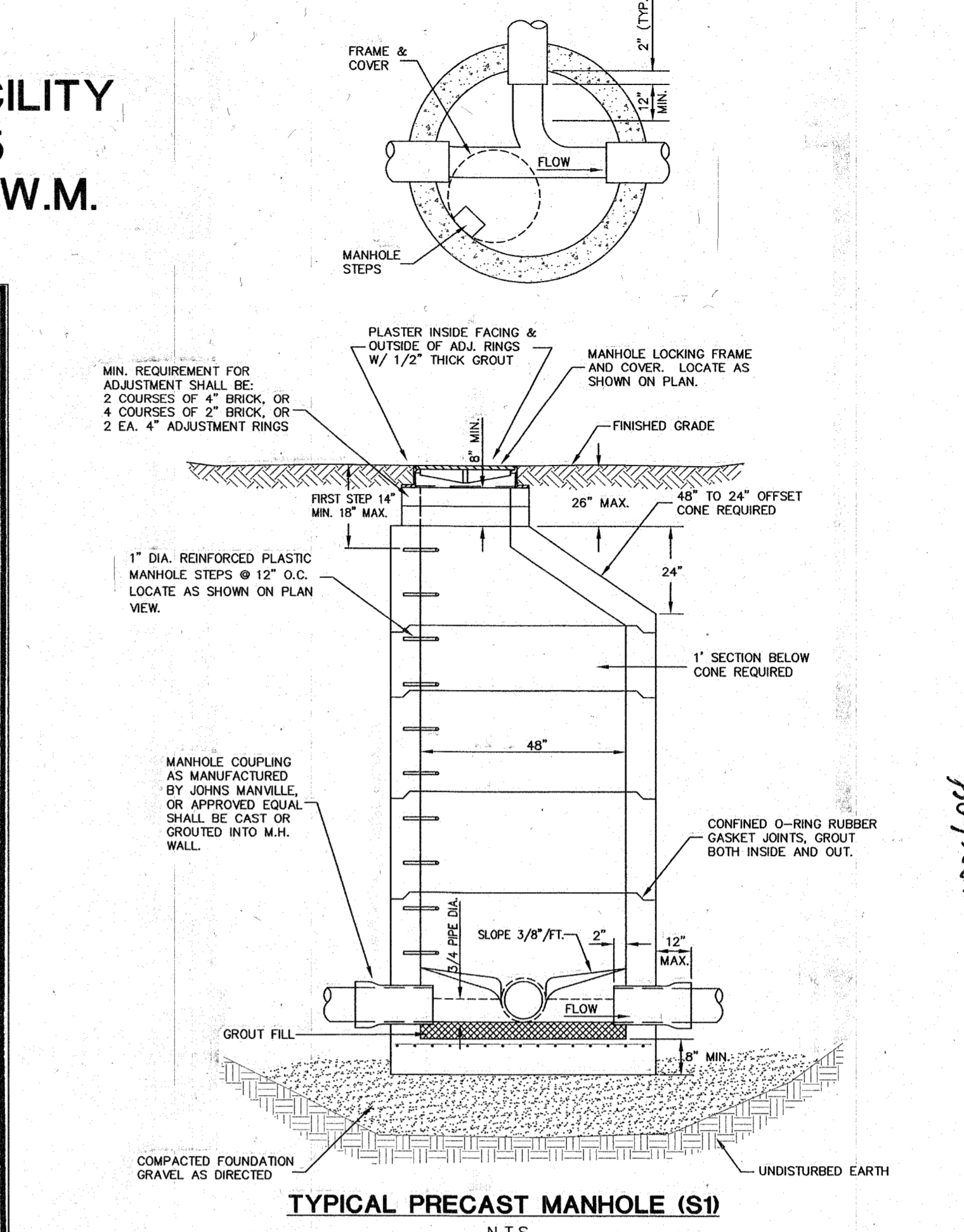
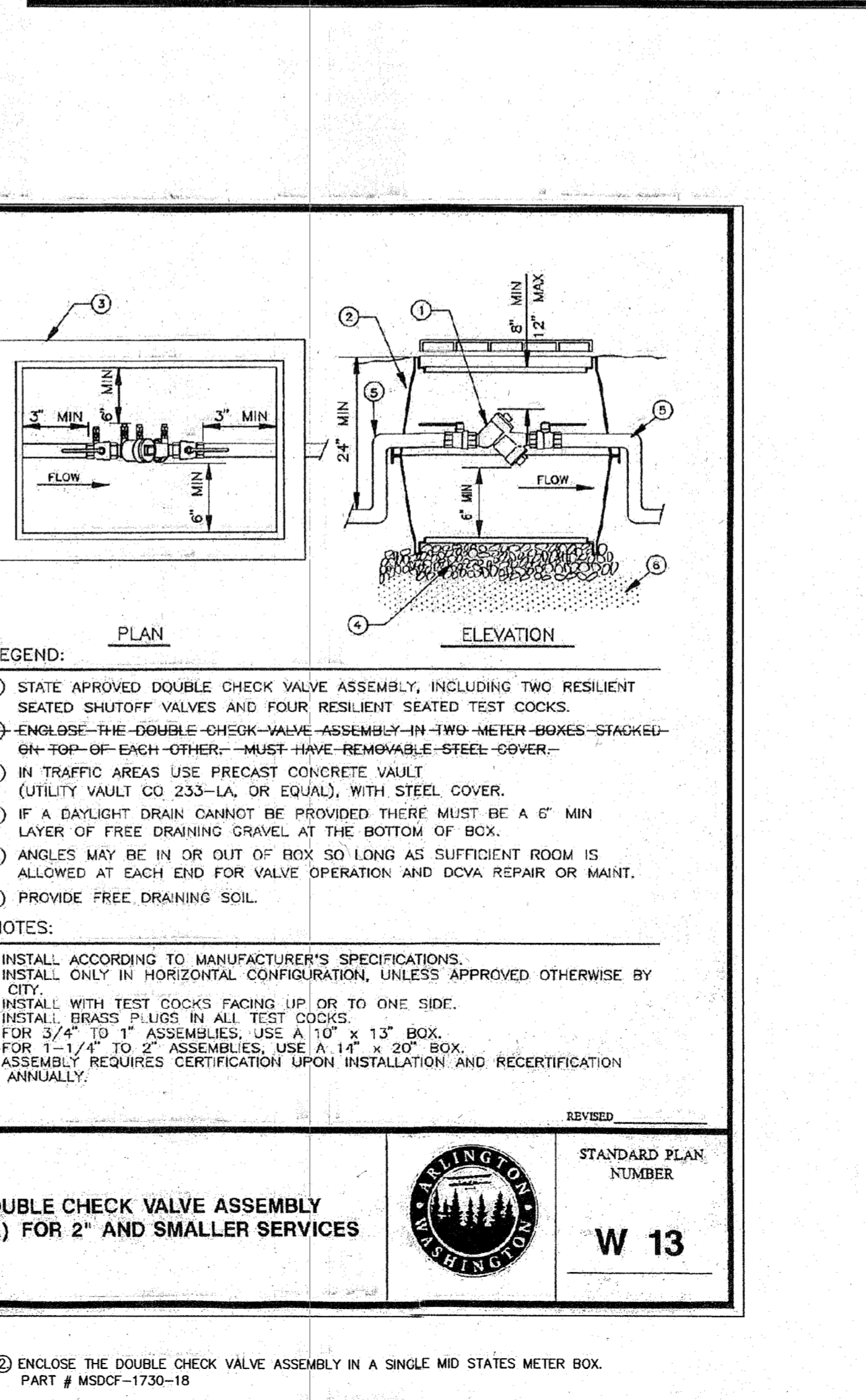
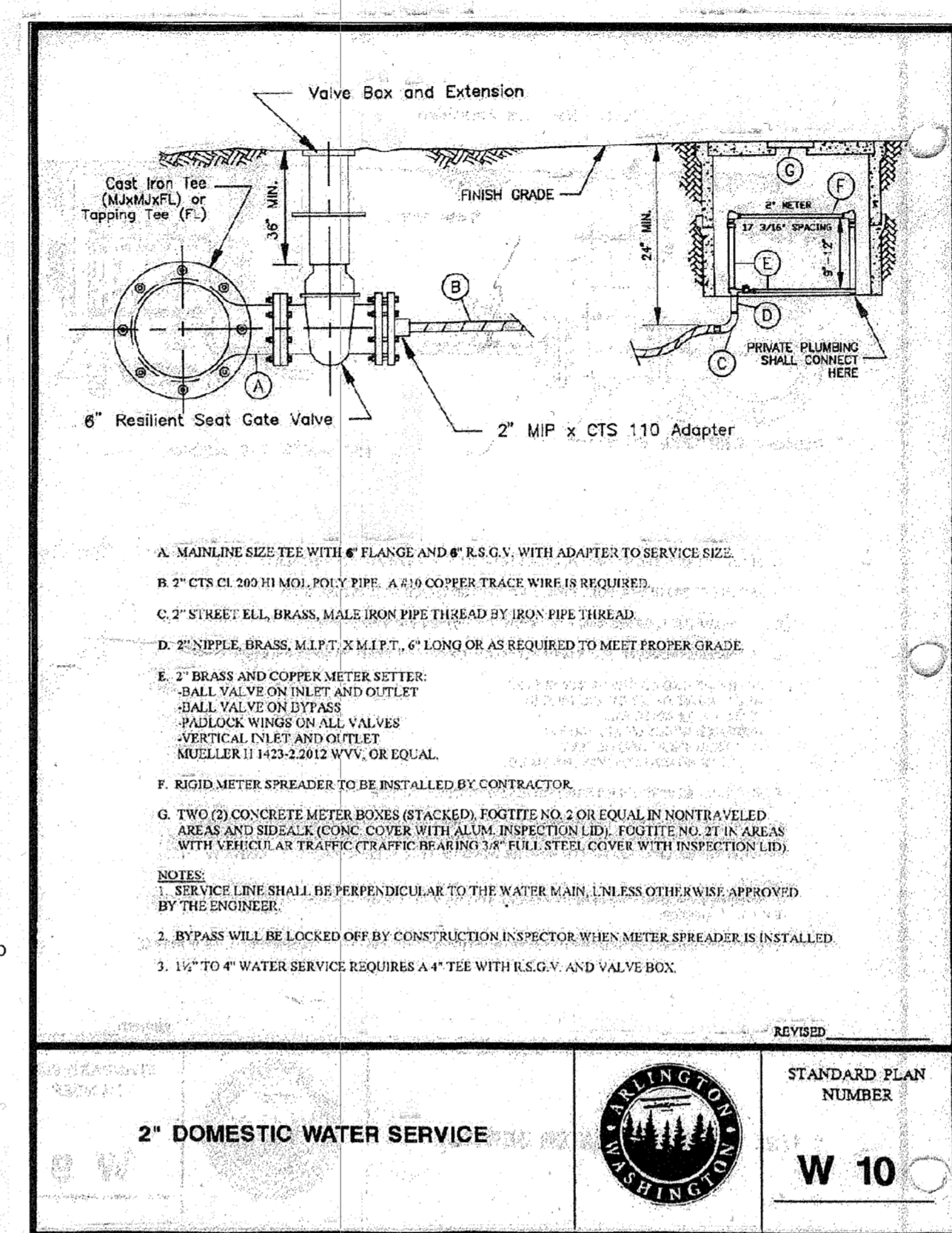
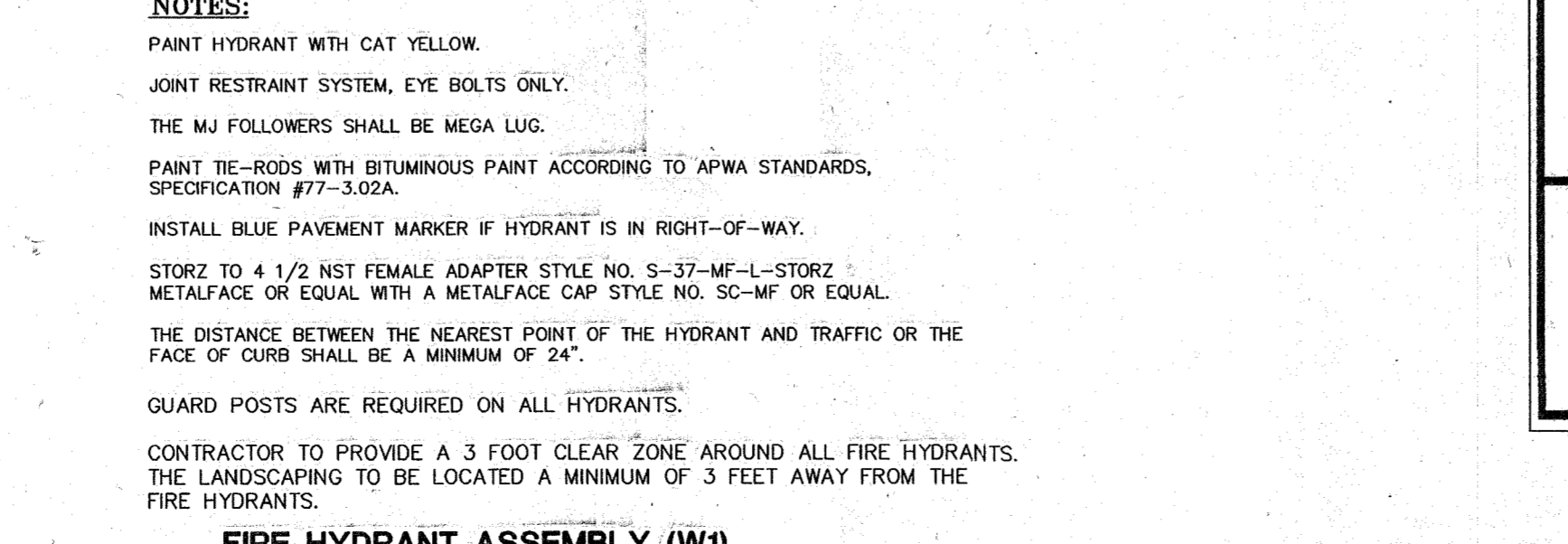
**3/4" & 1" DOMESTIC WATER SERVICE (W2)**  
N.T.S.

**NOTE:**  
 ALL SERVICE LINES 1.5" OR LARGER SHALL BE INSTALLED WITH 4" GATE VALVE PER CITY STANDARD W10.

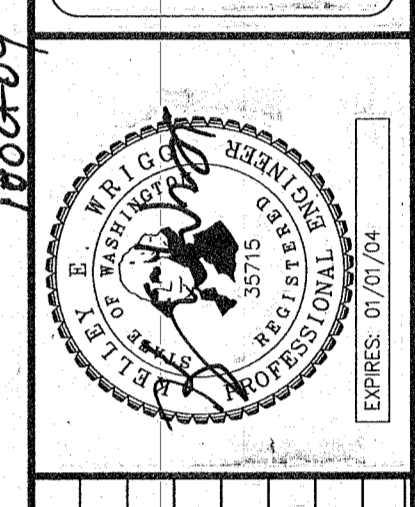


**CONCRETE BLOCKING (W3) & (W4)**  
N.T.S.

PIPE SIZE (IN)	MIN. BEARING AREA (SQ. FT.)	MIN. BEARING AREA (SQ. FT.) UNDISTURBED SOIL
4"	3	1
6"	4	2
8"	7	3
10"	11	5
12"	16	8
14"	22	12
16"	29	17
18"	36	22
20"	45	29
22"	54	36
24"	64	44
26"	76	53
28"	87	62
30"	101	73
36"	125	90
42"	152	111
48"	182	134



**CASCADE SURVEYING & ENGINEERING, INC.**  
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 Engineers  
 P.O. BOX 326  
 ARLINGTON, WASHINGTON 98223  
 (360) 435-5551  
 F-1-800-809-8651



**REVISION**

NO.	DATE	BY	DESCRIPTION
1	06/13/03	TAA	MK
2	07/07/03	TAA	TAA

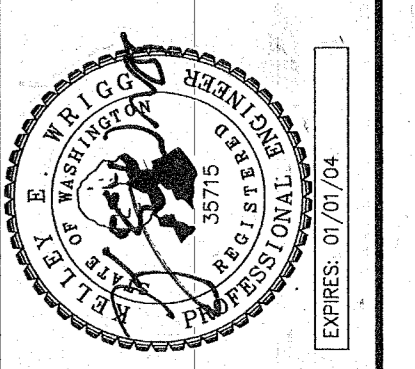
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**DRAWN** DATE 9/02  
**CHECKED** DATE 9/02  
**FIELD BOOK** AR. 73, 68

**MISCELLANEOUS DETAILS**  
**OLYMPIC PLACE RETIREMENT FACILITY**  
**FILE NO. MJ-02-045**

**7 OF 8**  
**# 14919**

CITY OF ARLINGTON  
OLYMPIC PLACE RETIREMENT FACILITY  
PROJECT FILE NO. MJ-02-045  
S.E. 1/4, SEC. 11, T. 31 N., R. 5 E., W.M.

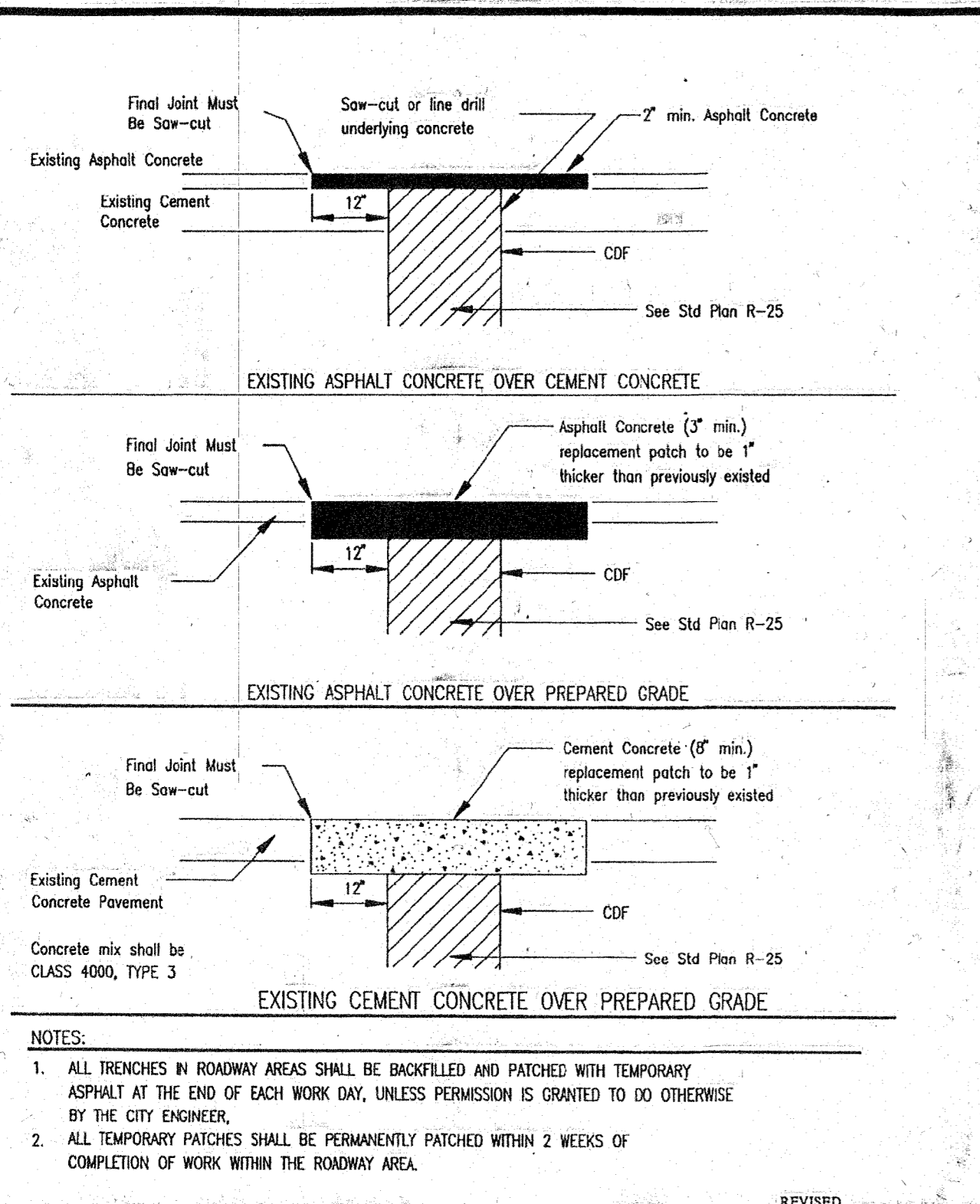
**CASCADE SURVEYING & ENGINEERING, INC.**  
Engineers Surveyors Planners  
P.O. BOX 228  
ARLINGTON, WASHINGTON 98223  
(360) 435-5551  
1-800-935-5551



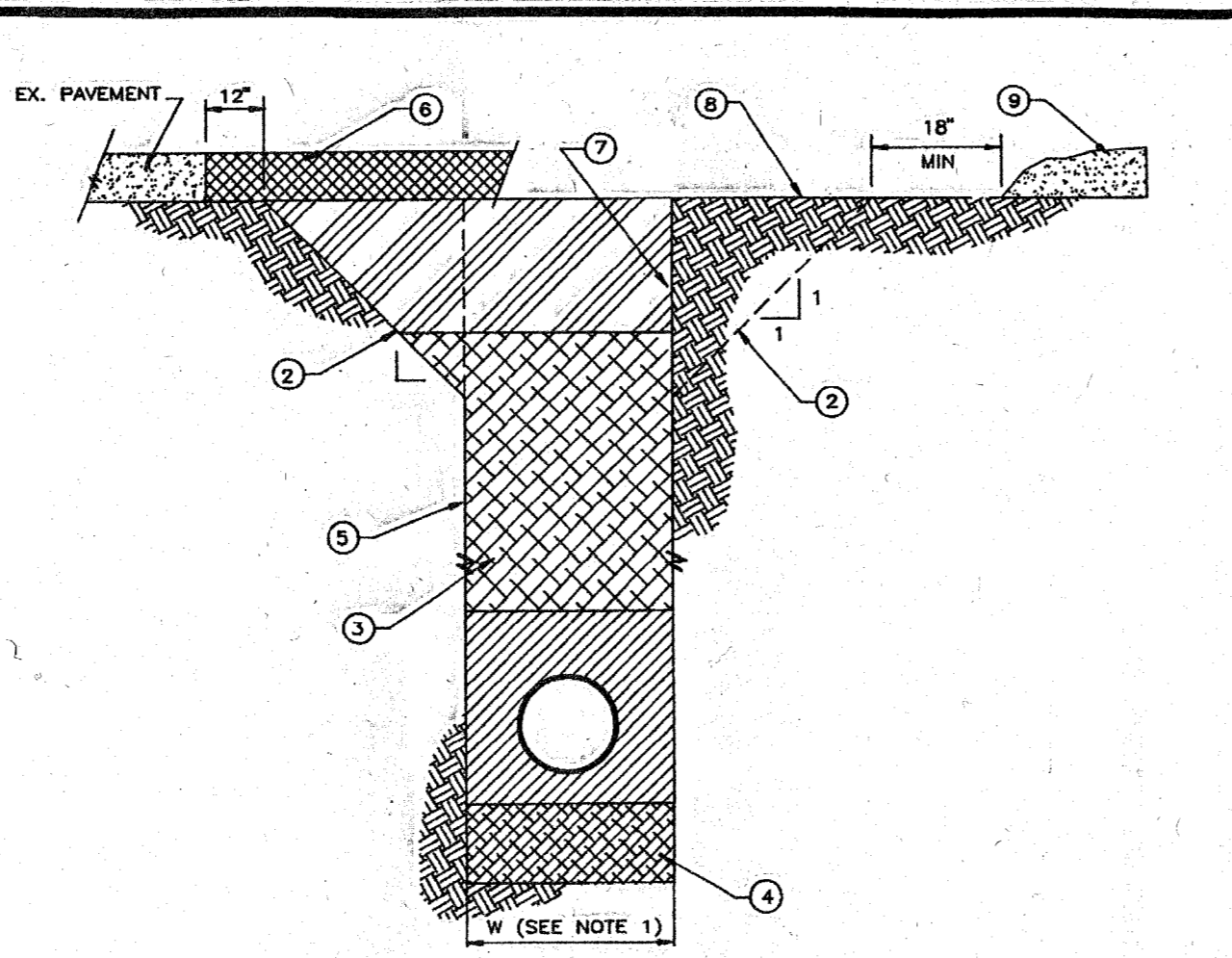
DESIGNED	DATE	9/02	BY
DRAWN	D.P.	DATE	9/02
CHECKED	K.E.W.	DATE	9/02
FIELD BOOK	ARL. 73. 88	DATE	06/13/03

REVISED AS PER 2ND REVIEW LETTER 07/01/03 MKK  
REVISED AS PER 1ST REVIEW LETTER 06/13/03 TAA

MISCELLANEOUS DETAILS  
OLYMPIC PLACE RETIREMENT FACILITY  
FILE NO. MJ-02-045

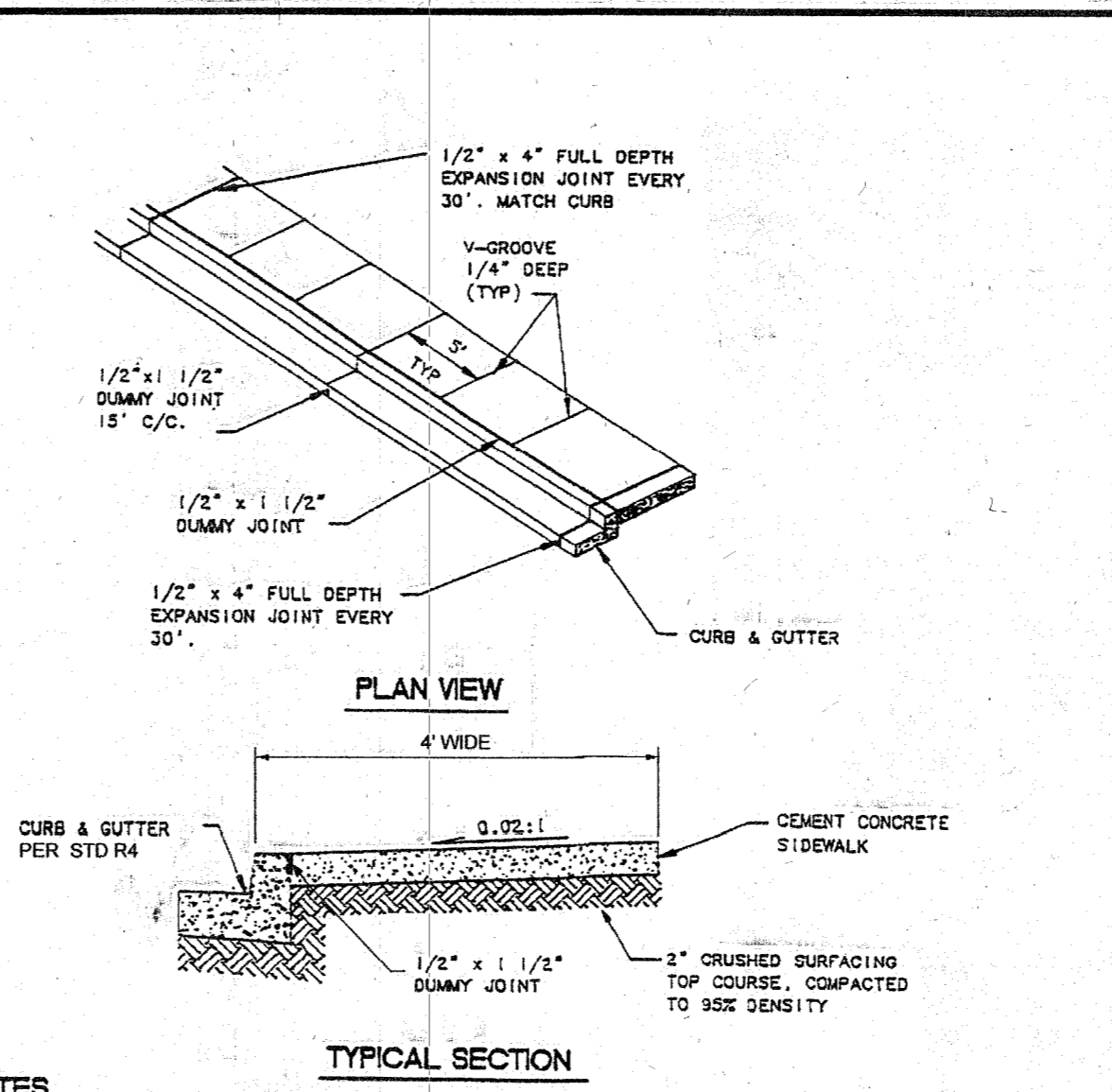


**PAVEMENT PATCHING DETAILS**  
STANDARD PLAN NUMBER  
**R 23**



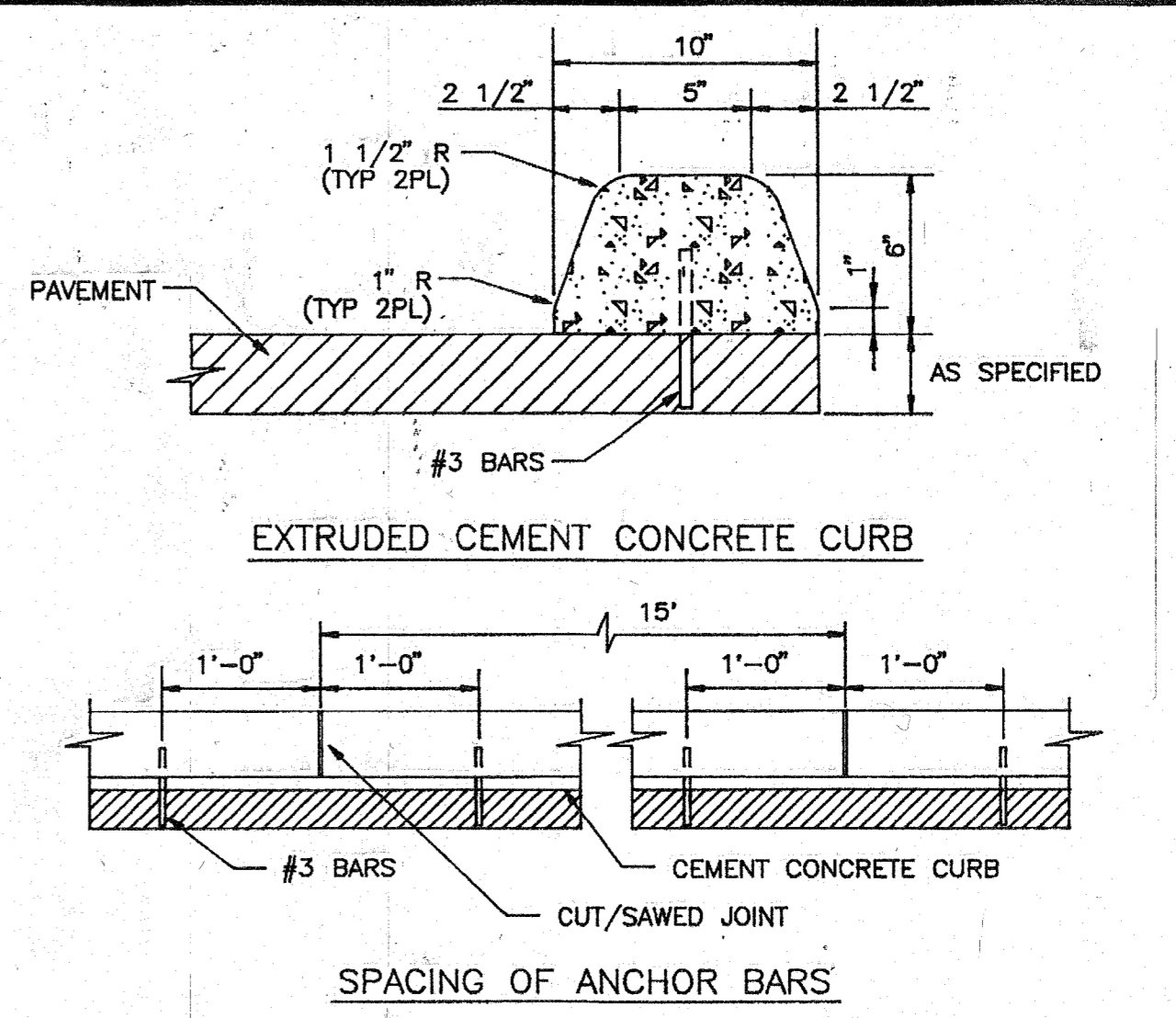
- NOTES:**
1. W = MAXIMUM WIDTH OF TRENCH. FOR PIPES 15" OR LESS IN DIA W=40". FOR PIPES 18" OR GREATER W=1-1/2 X I.D. + 18".
  2. ALTERNATE LAID-BACK TRENCH TO MEET O.S.H.A. REQUIREMENTS (NO SLOPES STEEPER THAN 1:1 EXCEPT FOR ROCK).
  3. NATIVE MATERIAL OR IMPORTED GRAVEL BORROW AS DIRECTED, OR CDF AS REQUIRED. COMPACT TO 90% MAXIMUM DENSITY. SEE NOTES A & B.
  4. FOUNDATION GRAVEL IF REQUIRED BY THE ENGINEER TO REPLACE UNSUITABLE MATERIAL. SHALL BE FOUNDATION MATERIAL, CLASS 52.
  5. FOR ADDITIONAL COMPACTION INFORMATION SEE STANDARD DRAWING R-26.
  6. SEE CITY OF ARLINGTON STANDARD DWG R-23 FOR PAVEMENT PATCH DETAILS.
  7. VERTICAL TRENCH WALLS WITH SHORING TO CONFORM TO O.S.H.A. REGULATIONS.
  8. SUBGRADE OR GROUND SURFACE IN NON-PAVED AREAS.
  9. EXCAVATED NATIVE MATERIAL OR STOCKPILED BACKFILL MATERIAL.
  10. FOR ALL TRENCHING, ROADWAY BACKFILL ABOVE THE PIPE ZONE SHALL BE CONTROLLED DENSITY FILL. SEE SECTION 2 OF THESE STANDARDS.
  11. FOR UTILITY CUTS SUCH AS GAS, TELEPHONE, POWER, AND CABLE TV LONGITUDINAL TO THE ROADWAY, BACKFILL SHALL BE CONTROLLED DENSITY FILL. SEE SECTION 2 OF THESE STANDARDS.

**TYPICAL TRENCH SECTION**  
STANDARD PLAN NUMBER  
**R 25**



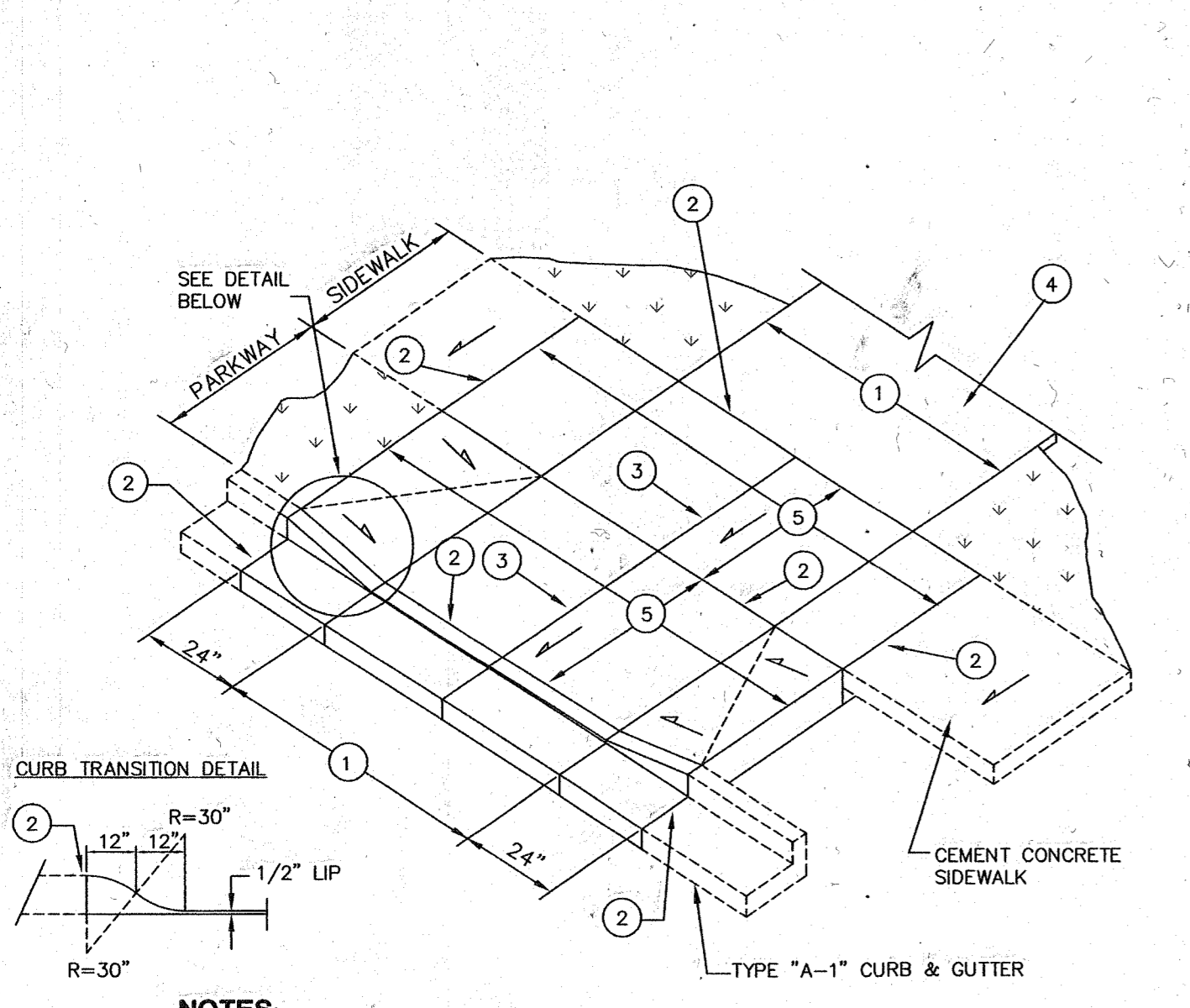
- NOTES:**
1. SIDEWALKS SHALL BE A MINIMUM OF 4" THICK, AND SHALL BE CLASS 3000 OBEYMENT CONCRETE, WITH AIR ENTRAINMENT (MIN 4.5%, MAX 6.5%).
  2. FULL EXPANSION JOINTS SHALL GENERALLY BE PLACED TO MATCH THOSE PLACED IN ADJACENT CURB & GUTTER, WITH MAXIMUM SPACING OF 30 FEET. FINAL SPACING DETERMINATION SHALL BE DECIDED BY THE INSPECTOR IN THE FIELD.
  3. SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY.
  4. SIDEWALK SHALL BE AT LEAST 8" THICK IN DRIVEWAYS AND BEHIND ROLL-CURBS.
  5. THE FINISHED SIDEWALK SHALL BE SPRAYED WITH A TRANSPARENT CURING COMPOUND COVERED BY WATERPROOF PAPER OR PLASTIC SHEETING IN THE EVENT OF RAIN OR OTHER INCLEMENT WEATHER. CURING TIME SHALL BE FOR A MINIMUM OF 72 HOURS.
  6. ALL JOINTS SHALL BE CLEANED AND EDGED WITH AN EDGER HAVING A 1/4" RADIUS.

**ONSITE CURB & SIDEWALK DETAIL**  
STANDARD PLAN NUMBER  
**R 22**



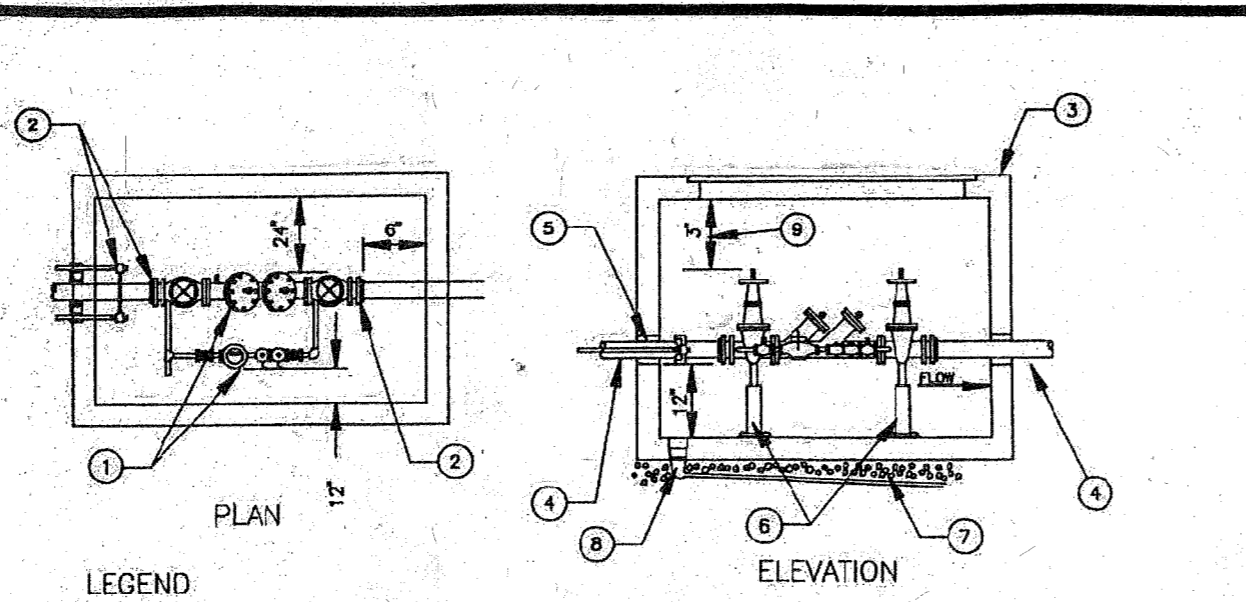
- NOTES:**
1. DUMMY JOINTS SHALL BE PLACED NOT TO EXCEED 15' O.C.S. THRU JOINTS SHALL BE PLACED ONLY AT POINTS OF TANGENCY ON STREET ALLEY AND DRIVEWAY RETURNS AND WHERE THRU JOINTS OCCUR IN THE PAVEMENT SLAB.
  2. CONCRETE SHALL BE CLASS 3000 OR COMMERCIAL WITH AIR-ENTRAINMENT.
  3. AT THE CONTRACTOR'S OPTION CONCRETE CURBS MAY BE ANCHORED TO THE EXISTING PAVEMENT EITHER BY PLACING STEEL TIE BARS 1 FOOT ON EACH SIDE OF EVERY JOINT, OR BY USING AN ADHESIVE. THE ADHESIVE SHALL MEET THE REQUIREMENTS OF SECTION 9-20 OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR TYPE II EPOXY RESIN.

**EXTRUDED CEMENT CONCRETE CURB**  
STANDARD PLAN NUMBER  
**R 22**



- NOTES:**
1. EQUALS WIDTH OF DRIVEWAY AT PROPERTY LINE
  2. 1/2" WIDE FULL DEPTH EXPANSION JOINT
  3. FULL DEPTH EXPANSION JOINT IF (1) IS 15' OR GREATER.
  4. DRIVEWAY TO BE SURFACED WITH ASPHALT OR CONCRETE.
  5. DRIVEWAY CEMENT CONCRETE SHALL BE A MIN. OF 6" THICK AND IS TO BE PLACED ON A MINIMUM OF 2" CRUSHED SURFACING TOP COURSE COMPACTED TO 95% MAXIMUM DENSITY.
  6. SIDEWALK SHALL MATCH ADJACENT SIDEWALK BY REMAINING A 2% SLOPE THROUGH THE DRIVEWAY APPROACH.
- \*CONTRACTOR WILL PROVIDE A FULL HEIGHT CURB SEPARATING ADJACENT DRIVEWAYS\*
- DRIVEWAY CUT DETAIL (R8)**  
N.T.S.

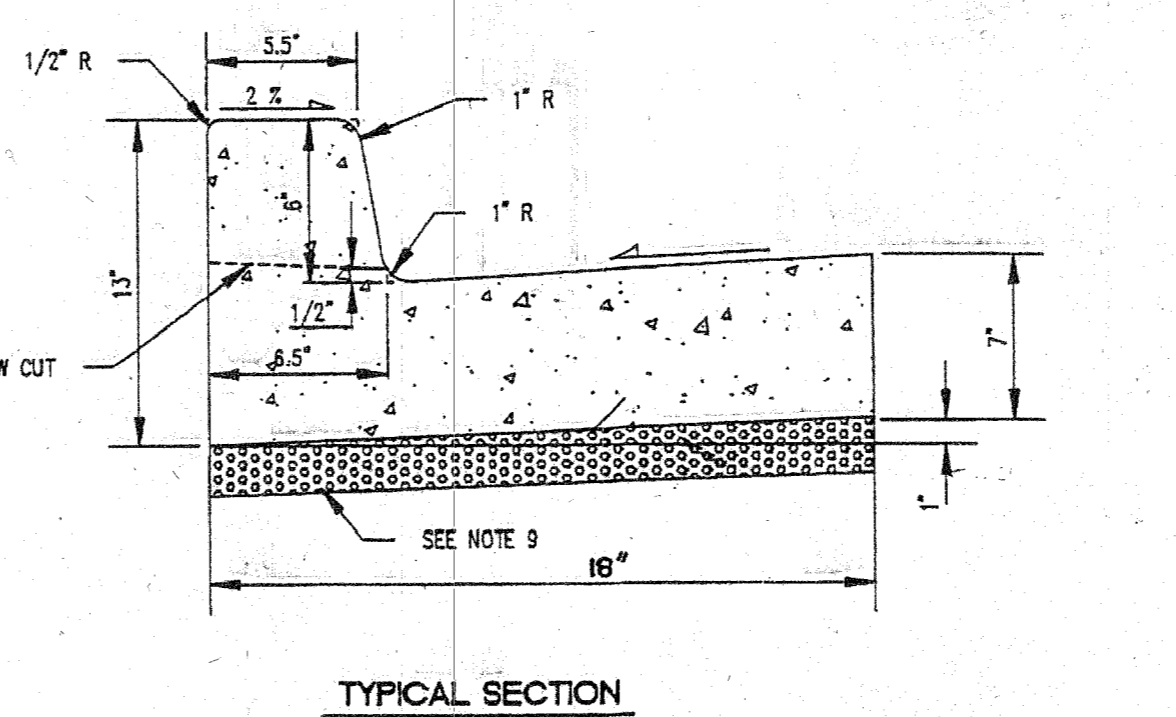
**DRIVEWAY CUT DETAIL (R8)**  
STANDARD PLAN NUMBER  
**W 15**



- LEGEND:**
1. STATE APPROVED DOUBLE CHECK DETECTOR ASSEMBLY, INCLUDING TWO O.S.B.V. RESILIENT SEATED GATE VALVES, FOUR RESILIENT SEATED TEST COCKS, 3/4" BRASS OR COPPER BYPASS WITH INLINE RESILIENT SEATED VALVES, 5/8" METER (METER TO READ IN CUBIC FEET), AND A 3/4" STATE APPROVED DOUBLE CHECK VALVE ASSEMBLY.
  2. UNI-FLANGE WITH SET SCREWS OR M/J x FL ADAPTER WITH MEGALUG AND GALVANIZED SHACKLE TO MAIN WITH 2-3/4" RODS, OR M/J RETAINER GLANDS.
  3. PRECAST CONCRETE VAULT (5'8"x7'2") #79054 RENTON CONCRETE PRODUCTS INC. WITH 57-TL-B COVER (2'-3" x 3" BRANDED PLATE) OR EQUAL. COVER TO READ "WATER" - PROVIDE O.S.H.A. APPROVED HOT DIPPED GALVANIZED STEEL LADDER. INSTALL LADDER IN SUCH A WAY AS TO PROVIDE ACCESS THAT DOES NOT INTERFERE WITH INSTALLED EQUIPMENT OR MAINTENANCE THEREOF. DUCTILE IRON PIPE (SIZED AS REQUIRED) CLASS 52.
  4. WATER TIGHT GROUT SHALL BE USED IN ALL VAULT PENETRATIONS.
  5. TWO GALVANIZED ADJUSTABLE PIPE SUPPORTS.
  6. GRAVEL FOUNDATION AS REQUIRED.
  7. DRAIN SLOPE TO DAYLIGHT WHEN POSSIBLE.
  8. 3" MIN CLEARANCE FROM UNDERSIDE OF VAULT LID TO STEM OF OS&V WHEN FULLY OPEN.

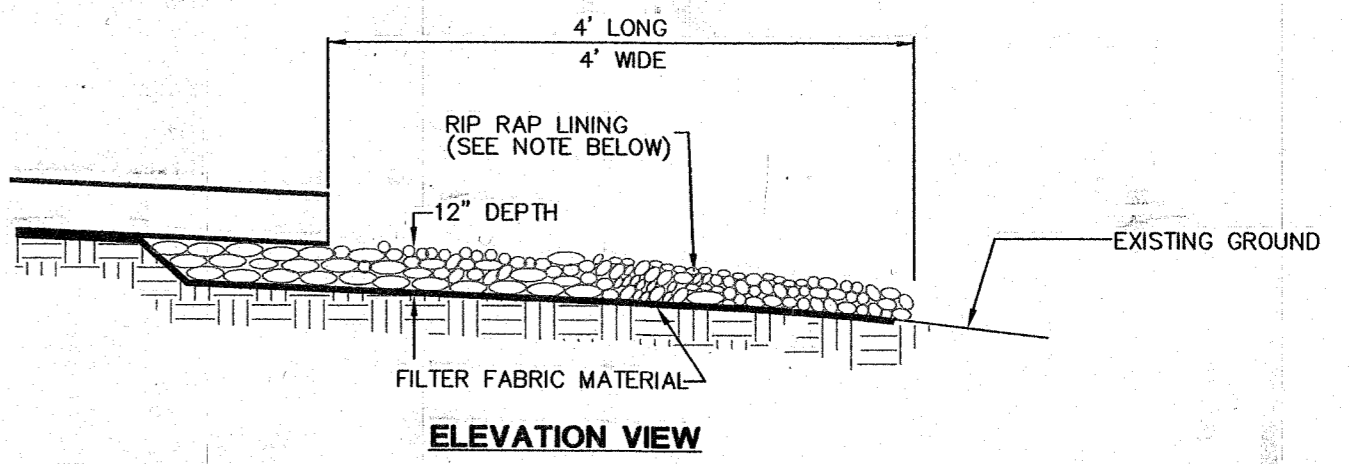
- NOTES:**
1. TREE AND GATE VALVE REQUIRED ON MAIN.
  2. SINGLE DETECTOR CHECKS ARE NOT APPROVED BACKFLOW PREVENTION DEVICES.
  3. ASSEMBLY REQUIRES CERTIFICATION UPON INSTALLATION AND RE-CERTIFICATION ANNUALLY.
  4. TEST COCKS MUST HAVE BRASS PLUGS IF ASSEMBLY IS INSTALLED UNDERGROUND.
  5. MAXIMUM HEIGHT OF ASSEMBLY IS FIVE FEET UNLESS AN OSHA APPROVED PLATFORM IS PROVIDED.
  6. MINIMUM INSIDE VAULT HEIGHT IS 76" OR AS APPROVED BY THE ENGINEER FOR 3" SERVICE AND LARGER.
  7. METER SHALL BE INSTALLED SUCH THAT IT CAN BE READ WITHOUT ENTERING VAULT WITH ACCESS HATCH OPEN.
  8. ALL DIMENSIONS ARE MINIMUM CLEARANCE REQUIREMENTS.

**DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) 2-1/2" AND LARGER SERVICES**  
STANDARD PLAN NUMBER  
**R 4**



- NOTES:**
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 FT. 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 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.

**CEMENT CONCRETE CURB AND GUTTER**  
STANDARD PLAN NUMBER  
**R 4**



- NOTE:**
- RIP RAP SHALL BE IN ACCORDANCE WITH SECTION 9-13.1 OF THE WSDOT/APWA STANDARD SPECIFICATIONS. RIP RAP TO BE REASONABLY WELL GRADED WITH ROCK GRADUATION AS FOLLOWS:
- PASSING 8" SQUARE SIEVE 100% OR MAXIMUM STONE SIZE OF 8"
  - PASSING 6" SQUARE SIEVE 40% TO 60% OR MEDIUM STONE SIZE OF 6"
  - PASSING 2" SQUARE SIEVE 0% TO 10% OR MINIMUM STONE SIZE OF 2"

**OUTFALL PROTECTION PAD DETAIL**  
N.T.S.

CITY OF ARLINGTON  
THIS SHEET HAS BEEN APPROVED PER THE CONDITIONS ON THE COVER SHEET.  
BY: [Signature] CITY ENGINEER  
DATE: 29 APR 05

8 OF 8  
# 14919  
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