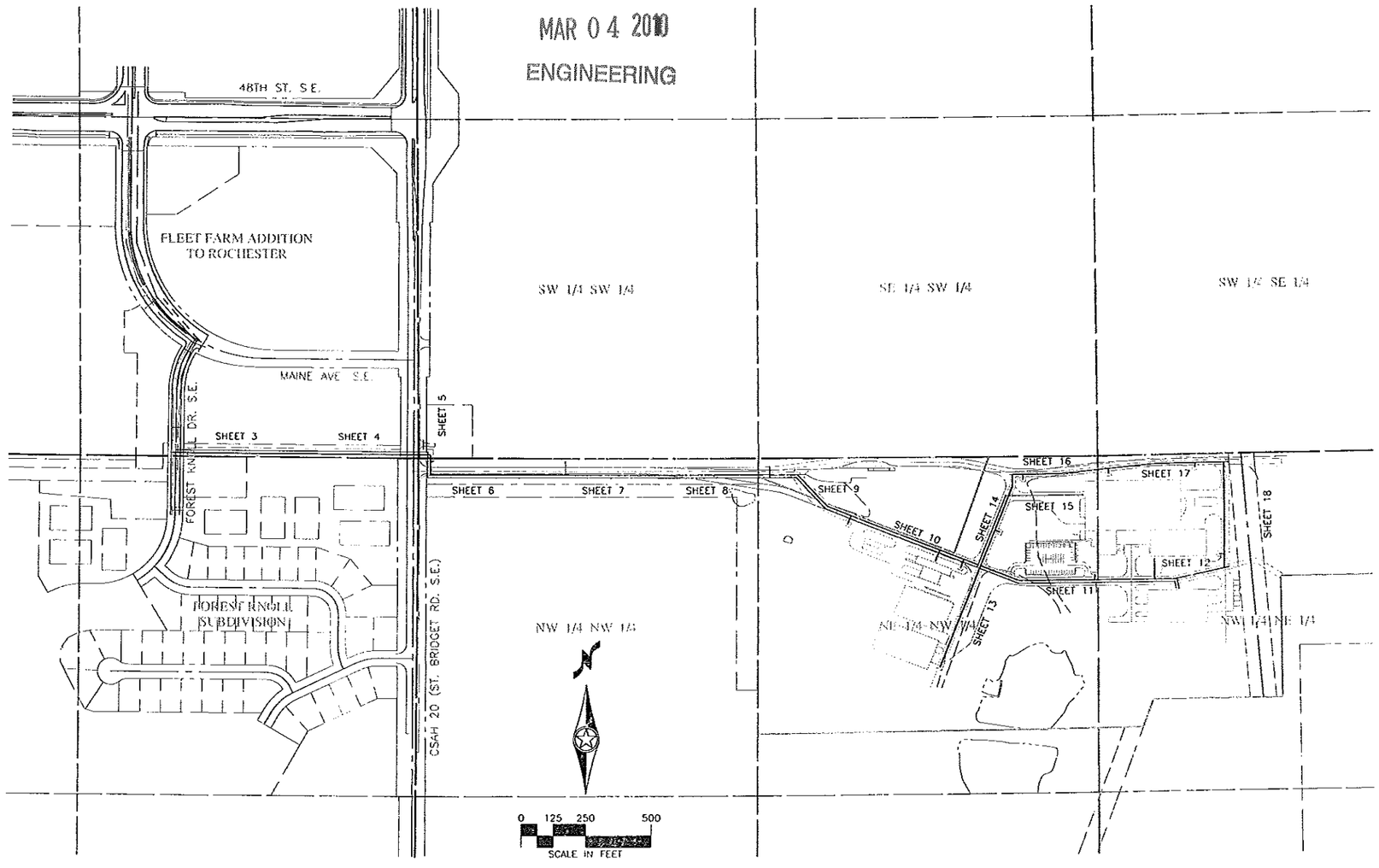
FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATERMAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

AS-BUILT

MAR 0 4 2010

ENGINEERING



COUNTY OF Olmsted

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16,17	ACCESS ROAD NORTH
18	ACCESS ROAD EAST

CONSTRUCTION NOTES

FOREST KNOLL DRIVE AND ACCESS ROAD

STREET RESTORATION
1-1/2" TYPE LV4 WEARING COURSE MIXTURE (LVWE45030B)
1-1/2" TYPE LV3 NON WEARING COURSE MIXTURE (LVNW35030B)
8" AGGREGATE BASE - CLASS 2

C.S.A.H. 20 (ST. BRIDGET ROAD S.E.)

ROAD RESTORATION
1-1/2" TYPE MV3 WEARING COURSE MIXTURE (MVWE35035C)
1-1/2" TYPE MV3 NON WEARING COURSE MIXTURE (MVNW35035C)
3" TYPE MV3 NON WEARING COURSE MIXTURE (MVNW35035B)
8" AGGREGATE BASE - CLASS 2
22" SELECT GRANULAR MATERIAL

OWNER

OLMSTED COUNTY PUBLIC WORKS

2122 CAMPUS DRIVE S.E. - SUITE 200
ROCHESTER, MINNESOTA 55904-4744

PHONE NO. (507) 328-7070

City of ROCHESTER Minnesota
Department of Public Services
Title Sheet

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

RECOMMENDED FOR APPROVAL 9/19/08 DATE — MANAGER OF ENGINEERING

APPROVED 9/22/08 DATE — DIR. OF PUBLIC WORKS

APPROVED 9/23/08 DATE — WATER DEPARTMENT

9/24/08 DATE — REG. NO. 10397

County Proj. No. M-08-04

City Proj. No. M8-18 J5305

Sheet No. 1 of 18 Sheets

DATE: 03-19-08

FILE NAME: PWSC0101.DWG

STATEMENT OF ESTIMATED QUANTITIES

SPECIFICATION NO.	ITEM	ITEM NOTES	UNITS	PARTICIPATING	NON PARTICIPATING	TOTAL ESTIMATED QUANTITIES
2021.501	MOBILIZATION		LUMP SUM	1		1
2101.501	CLEARING		ACRE	0.4		(P) 0.4
2101.506	GRUBBING		ACRE	0.4		(P) 0.4
2104.505	REMOVE BITUMINOUS PAVEMENT		SQ. YD.	1198		1198
2104.509	REMOVE CATCH BASIN	(1)	EACH	1		1
2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)		LIN. FT.	992		992
2104.521	SALVAGE PIPE CULVERT	(2)	LIN. FT.	34		34
2105.603	MINOR GRADING	(3)	LIN. FT.	900		900
2211.501	AGGREGATE BASE, CLASS 2	(4)	TON	720		720
2501.571	INSTALL PIPE CULVERT	(2)	LIN. FT.	34		34
2563.601	TRAFFIC CONTROL		LUMP SUM	1		1
2573.502	SILT FENCE, TYPE HEAVY DUTY	(5) (6)	LIN. FT.	50		50
2573.502	SILT FENCE, TYPE MACHINE SLICED	(5) (6)	LIN. FT.	2220		2220
2573.550	EROSION CONTROL SUPERVISOR		LUMP SUM	1		1
2573.602	TEMPORARY ROCK CONSTRUCTION ENTRANCE		EACH	1		1
2575.501	SEEDING		ACRE	2.0		(P) ~~2.0~~ 2.3(P)
2575.502	SEED, MIXTURE 350		POUND	170		170
2575.511	MULCH MATERIAL, TYPE 3		TON	4.0		4.0
2575.519	DISK ANCHORING		ACRE	2.0		(P) ~~2.0~~ 2.3 (P)
2575.532	FERTILIZER, TYPE 1 ANALYSIS 17-10-30		POUND	400		400
S100.501	TRENCH EXCAVATION FOR PIPE 10" & UNDER		LIN. FT.	4784		4784
S100.507	SOLID ROCK EXCAVATION		CU. YD.	295		295
S100.520	FURNISH & INSTALL 4" ALTERNATE PIPE SEWER		LIN. FT.	28		28
S100.520	FURNISH & INSTALL 6" ALTERNATE PIPE SEWER		LIN. FT.	338		338
S100.520	FURNISH & INSTALL 8" ALTERNATE PIPE SEWER		LIN. FT.	4029		4029
S100.522	FURNISH & INSTALL 8" ALTERNATE PRESSURE PIPE SEWER		LIN. FT.	379		379
S100.545	CONSTRUCT STRUCTURE TYPE 3 - 6 TO 10' DEEP		STRUCTURE	2		2
S100.545	CONSTRUCT STRUCTURE TYPE 3 - 10 TO 13' DEEP		STRUCTURE	11		11
S100.545	CONSTRUCT STRUCTURE TYPE 3 - 13 TO 15' DEEP		STRUCTURE	2		2
S100.545	CONSTRUCT STRUCTURE TYPE 3 - 15 TO 17' DEEP		STRUCTURE	1		1
S100.545	CONSTRUCT STRUCTURE TYPE 3 - 19 TO 21' DEEP		STRUCTURE	1		1
S100.546	FURNISH & INSTALL CLEANOUT ASSEMBLY		LIN. FT.	8		8
S100.551	FURNISH & INSTALL 8" x 6" WYE		EACH	1		1
S100.558	FURNISH & INSTALL 4" PLUG		EACH	1		1
S100.558	FURNISH & INSTALL 6" PLUG		EACH	1		1
S100.558	FURNISH & INSTALL 8" PLUG		EACH	1		1
S100.572	CONNECT TO EXISTING SANITARY SEWER		EACH	1		1
S100.578	FURNISH & INSTALL MANHOLE WATERPROOFING		EACH	6		6
S100.585	STREET RESTORATION - LOCAL	(7)	SQ. YD.	789		789
S100.585	STREET RESTORATION - COLLECTOR	(8)	SQ. YD.	165		165
W200.501	TRENCH EXCAVATION FOR PIPE 14" & UNDER		LIN. FT.	6660		6660
W200.507	SOLID ROCK EXCAVATION		CU. YD.	1167		1167
W200.515	F & I POLYETHYLENE ENCASEMENT FOR 6" D.I.P.		LIN. FT.	257		257
W200.515	F & I POLYETHYLENE ENCASEMENT FOR 8" D.I.P.		LIN. FT.	1690		1690
W200.515	F & I POLYETHYLENE ENCASEMENT FOR 12" D.I.P.		LIN. FT.	4713		4713
W200.528	FURNISH & INSTALL 6" D.I.P., CLASS 52		LIN. FT.	257		257
W200.528	FURNISH & INSTALL 8" D.I.P., CLASS 52		LIN. FT.	1690		1690
W200.528	FURNISH & INSTALL 12" D.I.P., CLASS 52		LIN. FT.	4713		4713
W200.550	FURNISH & INSTALL 6" GATE VALVE & BOX		EACH	11		11
W200.550	FURNISH & INSTALL 8" GATE VALVE & BOX		EACH	4		4
W200.550	FURNISH & INSTALL 12" GATE VALVE & BOX		EACH	10		10
W200.556	FURNISH & INSTALL 8" x 8" TAPPING SLEEVE & VALVE		EACH	1		1
W200.560	FURNISH & INSTALL 6" HYDRANT	(11)	EACH	10		10
W200.562	FURNISH & INSTALL WATERMAIN FITTINGS		POUND	2874		2874
W200.572	CONNECT TO EXISTING WATERMAIN		EACH	1		1

AS-BUILT

MAR 0 4 2010

ENGINEERING

(1) CONSISTS OF CATCH BASIN AT STA. 63+73 - 23' RT..

(2) INCLUDES CULVERTS AT STA. 55+89 - RT., STA. 63+73 - RT. AND STA. 76+92 - RT..

(3) INCLUDED FOR DITCH GRADING ON ACCESS ROAD FROM STA. 50+50 TO STA. 59+50 - RT..

(4) QUANTITY COMPUTED FOR PLACING 6" DEPTH ON NORTH ACCESS ROAD FROM STA. 73+00 TO STA. 81+75.

(5) SPECIFICATION 1903 SHALL NOT APPLY FOR THESE ITEMS.

(6) ITEM INCLUDES MAINTENANCE DURING THE LENGTH OF THE CONTRACT AND REMOVAL ONCE TURF HAS BEEN ESTABLISHED.

(7) APPROXIMATE QUANTITY OF AGGREGATE BASE, CLASS 2 IS 400 TONS. APPROXIMATE QUANTITY OF TYPE LV3 NON WEARING COURSE MIXTURE IS 66 TONS. APPROXIMATE QUANTITY OF TYPE LV4 WEARING COURSE MIXTURE IS 65 TONS. APPROXIMATE QUANTITY OF B624 CURB AND GUTTER IS 30 LINEAL FEET.

(8) APPROXIMATE QUANTITY OF SELECT GRANULAR MATERIAL IS 135 CU. YDS.. APPROXIMATE QUANTITY OF AGGREGATE BASE, CLASS 2 IS 72 TONS. APPROXIMATE QUANTITY OF TYPE MV3 NON WEARING COURSE MIXTURE (B) IS 28 TONS. APPROXIMATE QUANTITY OF TYPE MV3 NON WEARING COURSE MIXTURE (C) IS 14 TONS. APPROXIMATE QUANTITY OF TYPE MV3 WEARING COURSE MIXTURE IS 14 TONS.

(9) FURNISH AND INSTALL HYDRANT PROTECTIVE POSTS SHALL BE CONSIDERED INCIDENTAL TO FURNISH AND INSTALL 6" HYDRANT AND NO DIRECT COMPENSATION WILL BE MADE THEREFOR.

STANDARD PLATES

THE FOLLOWING STANDARD PLATES, APPROVED BY THE CITY OF ROCHESTER, DEPARTMENT OF PUBLIC WORKS SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
1-03H	STRUCTURE TYPES 3 AND 3A (SANITARY SEWER)
1-06B	STRUCTURE TYPE 6 (CLEANOUT)
1-07A	MANHOLE WATERPROOFING (NON-PAVED AREAS)
1-11G	CASTING SCHEDULE
1-12C	CONCRETE STRUCTURE ADJUSTING RINGS (3 SHEETS)
4-01E	SERVICE CONNECTIONS STUBBED INTO PROPERTY (2 SHEETS)
6-01A	VALVE EXTENSION STEM
6-04C	HYDRANT BRANCH DETAIL
6-05C	RESTRAINED JOINT DETAIL
6-06A	POLYETHYLENE ENCASEMENT (2 SHEETS)
6-08B	ELECTRICAL CONDUCTIVITY
6-09A	INSTALLATION DETAIL
6-10A	FIRE HYDRANT THREAD PATTERN (4 in. NOZZLE)
6-11D	WATER SERVICE AND METER SETTING DETAILS (2 SHEETS)
6-17A	HYDRANT PROTECTIVE POSTS
7-01B	SILT FENCE DETAILS (2 SHEETS)
7-06D	TEMPORARY ROCK CONSTRUCTION ENTRANCE

UTILITY LOCATIONS

GOPHER STATE ONE CALL 1-800-252-1166

CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. ALL INPLACE UTILITIES MAY NOT BE SHOWN ON THIS PLAN.

BASIS OF QUANTITY

AGGREGATE BASE, CLASS 2 - 140 LBS./CU. FT. COMPACTED
BITUMINOUS MIXTURE - 110 LBS./SQ. YD./1 INCH DEPTH
SEED MIXTURE 350 - 84.5 LBS./ACRE
MULCH MATERIAL TYPE 3 - 2 TONS/ACRE EXCEPT EROSION BLANKET AND SOD AREAS
DISK ANCHORING - ALL SEEDING AREAS EXCEPT 1:2 SLOPES AND SOD AREAS
COMMERCIAL FERTILIZER - 200 LBS./ACRE

City of ROCHESTER Minnesota
Department of Public Services
Estimated Quantities

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.

I HEREBY CERTIFY THAT THIS PLAN, AND REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Michael D. Shuman
DATE 9/24/08 REG. NO. 10397

City Proj. No. M8-18 J5305 Sheet No. 2 of 18 Sheets

DATE: 09-16-08
FILE NAME: PWSGEE01.DWG

M.H. 1
STA. 10+00.00 – C/L =
S.A. STA. 10+00.00
CONSTRUCT STRUCTURE TYPE 3
OVER EX. 8" SAN. S.
RING EL. 98.85
INL. EL. 86.86 FROM S.
INL. EL. 86.96 FROM M.H. 2
OUT. EL. 86.78 TO N.

M.H. 2
STA. 13+00.00 – C/L =
S.A. STA. 13+00.00
CONSTRUCT STRUCTURE TYPE 3
RING EL. 06.70
INL. EL. 93.42 FROM M.H. 3
OUT. EL. 93.32 TO M.H. 1
F & I MANHOLE WATERPROOFING

AS-BUILT
MAR 0 4 2010
ENGINEERING

Backfill street excavation with granular material

FLEET FARM ADDITION TO ROCHESTER

2

1

+00.00 – C/L FOREST KNOLL DR. S.E.

EX. 5' CONC. S.W.
EX. 8" W/M
EX. 8" SAN. S.
EX. 24" ST. S.
SAWCUT EX. BIT.
REMOVE & REPLACE EX. B624 C & G
REMOVE & RESTORE EX. BIT.
M.H. 1
W-1
W-2
+30.00
25.00
10'
31' UTILITY EASEMENT
OUTLOT "B"
11
8" SAN. S.
12
13
M.H. 2
50.00
14
8" SAN. S.
12" D.I.P. W/M
N. LINE SEC. 35
10'
STA. 15+00.00
MATCH LINE
OUTLOT "B"
25.00
+74.63
6
2
FOREST KNOLL SUBDIVISION
FOREST KNOLL COMMONS

W-1
STA. 9+89.00 – 11.00' RT. =
W.A. STA. 9+89.00
F & I 8" x 8" TAPPING SLEEVE & VALVE
CONNECT TO EX. WATERMAIN

W-2
STA. 9+92.00 – 11.00' RT. =
W.A. STA. 9+92.00
F & I 12" x 8" REDUCER

N

0 10 20 40
SCALE IN FEET

OUTLOT "B"

EXISTING C/L PROFILE
EX. 24" ST. S. (R.C.P.)
EX. 8" W/M
EX. 8" SAN. S.
12" D.I.P. W/M
300.00 L.F. 8" A.P.S. SAN. S. at 2.12%
300.00 L.F. 8" A.P.S. SAN. S. at 3.12%

1110
1105
1100
1095
1090
1085
1080

W/M ELEV. 90.4 90.4 90.5 91.0 92.3 93.7 95.1 96.6 98.0 99.6 102.1
INL. 96.96
SAN. S. ELEV. 86.96 87.48 88.02 88.55 89.08 89.61 90.14 90.67 91.20 91.73 92.26 92.79 93.32 93.42 94.20 94.98 95.76 96.54 97.32 98.10 98.88 99.66 105.3
OUT. 96.6

+50 +75 +88.00 10 +25 +50 +75 11 +25 +50 +75 12 +25 +50 +75 13 +25 +50 +75 14 +25 +75 15

City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert. 1"= 20' Hor.

Michael Sheehan
9/24/08 10399

City Proj. No. M8-18 J5305 Sheet No. 3 of 18 Sheets

M.H. 3
STA. 16+00.00 – C/L =
S.A. STA. 16+00.00
CONSTRUCT STRUCTURE TYPE 3
RING EL. 21.90
INL. EL. 02.88 FROM M.H. 4
OUT. EL. 02.78 TO M.H. 2
F & I MANHOLE WATERPROOFING

M.H. 4
STA. 19+78.96 – C/L =
S.A. STA. 19+78.96 =
STA. 37+06.98 – 54.00' RT. =
S.A. STA. 37+06.98
CONSTRUCT STRUCTURE TYPE 3
RING EL. 17.30
INL. EL. 04.50 FROM M.H. 5
OUT. EL. 04.40 TO M.H. 3
F & I MANHOLE WATERPROOFING

AS-BUILT
MAR 0 4 2010
ENGINEERING

FLEET FARM ADDITION TO ROCHESTER

STA. 15+00.00

25.00 | 10' | 31' UTILITY EASEMENT

OUTLOT "B"

11' | 15 | 8" SAN. S. | 16 | M.H. 3 | 17 | 8" SAN. S. | 18 | 50.00

12" D.I.P. W/M

N. LINE SEC. 35

10 | 25.00

MATCH LINE

6

2

FOREST KNOLL COMMONS

+74.11 | +24.96 – C/L C.S.A.H. 20 | +77.11

SAWCUT EX. BIT. | 19 | 11' | M.H. 4 | 20

W-3 | W-4 | W-5 | W-6

REMOVE & RESTORE EX. BIT.

W-3
STA. 18+65.06 – 11.00' RT. =
W.A. STA. 18+65.06
F & I 12" GATE VALVE & BOX

W-4
STA. 19+90.07 – 11.00' RT. =
W.A. STA. 19+90.07 =
STA. 36+95.87 – 65.00' RT. =
W.A. STA. 36+95.87
F & I 12" x 90° BEND

0 10 20 40
SCALE IN FEET

OUTLOT "B"

EXISTING C/L PROFILE

1125 | 1120 | 1115 | 1110 | 1105 | 1100 | 1095

12" D.I.P. W/M

W/M ELEV.

SAN. S. ELEV.

378.96 L.F. 8" A.P.P.S. SAN. S. at 0.40%

8" A.P.S. SAN. S.

05.3 | 08.6 | 11.9 OUT. | 14.2 | 15.4 | 15.4 | 14.3 | 12.0 | 08.9 | 07.5 | 07.5 | 04.38 OUT.

02.76 OUT. | 02.88 INL.

99.66 | 00.44 | 01.22 | 02.00 | 02.98 | 03.08 | 03.18 | 03.28 | 03.38 | 03.48 | 03.58 | 03.68 | 03.78 | 03.88 | 03.98 | 04.08 | 04.18 | 04.28 | 04.40 OUT. | +90.07

15 | +25 | +50 | +75 | 16 | +25 | +50 | +75 | 17 | +25 | +50 | +75 | 18 | +25 | +50 | +75 | 19 | +25 | +50 | +75 | +78.96

City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert.
1"= 20' Hor.

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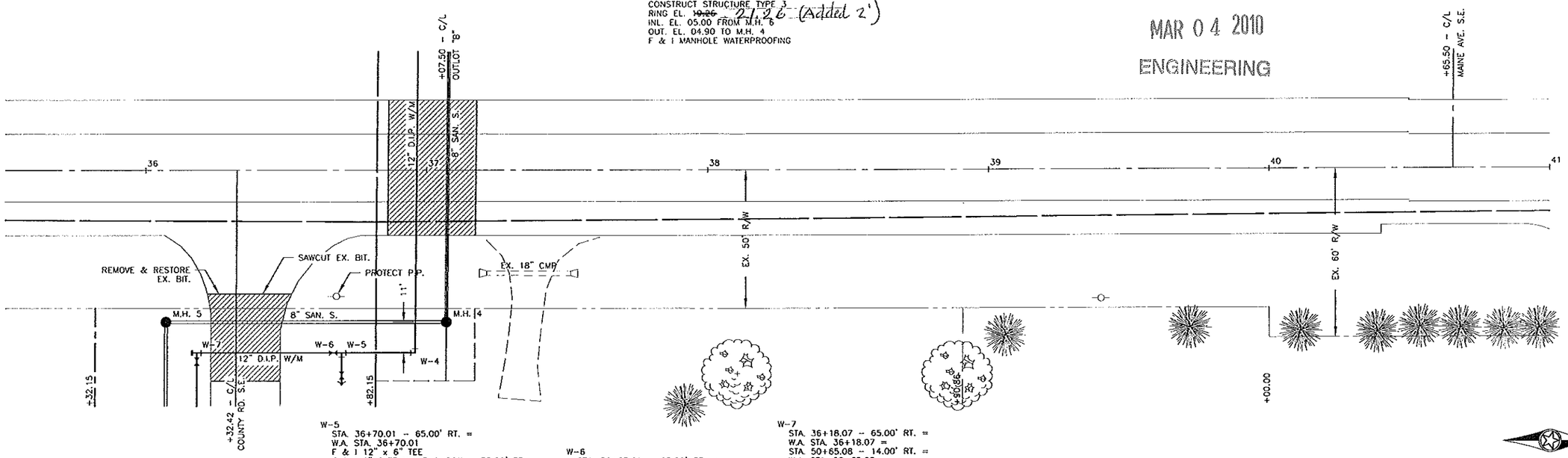
Michael K. Sullivan
DATE 2/24/08 REG. NO. 40327

City Proj. No. M8-18 | J5305 | Sheet No. 4 of 18 Sheets

DATE: 09-16-08
FILE NAME: PWCCCP02.DWG

M.H. 5
STA. 36+07.13 – 54.00' RT. =
S.A. STA. 36+07.13 =
STA. 50+54.13 – 25.00' RT. =
S.A. STA. 50+54.13
CONSTRUCT STRUCTURE TYPE 3
RING EL. ~~10.26~~ 2126 (Added 2')
INL. EL. 05.00 FROM M.H. 6
OUT. EL. 04.90 TO M.H. 4
F & I MANHOLE WATERPROOFING

AS-BUILT
MAR 04 2010
ENGINEERING



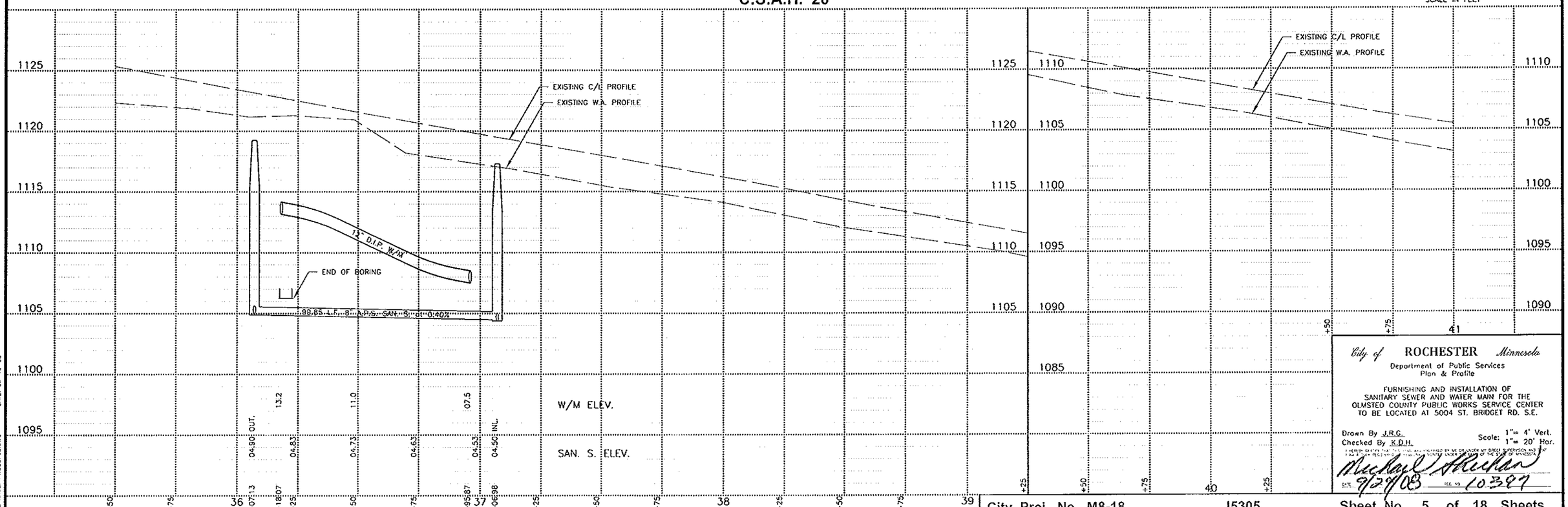
W-5
STA. 36+70.01 – 65.00' RT. =
W.A. STA. 36+70.01
F & I 12" x 6" TEE
F & I 6" GATE VALVE & BOX – 73.00' RT.
F & I 6" HYDRANT – 76.00' RT.
FLANGE EL. 17.50

W-6
STA. 36+67.01 – 65.00' RT. =
W.A. STA. 36+67.01
F & I 12" GATE VALVE & BOX

W-7
STA. 36+18.07 – 65.00' RT. =
W.A. STA. 36+18.07 =
STA. 50+65.08 – 14.00' RT. =
W.A. STA. 50+65.08
F & I 12" x 12" TEE
F & I 12" PLUG

0 10 20 40
SCALE IN FEET

C.S.A.H. 20



City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

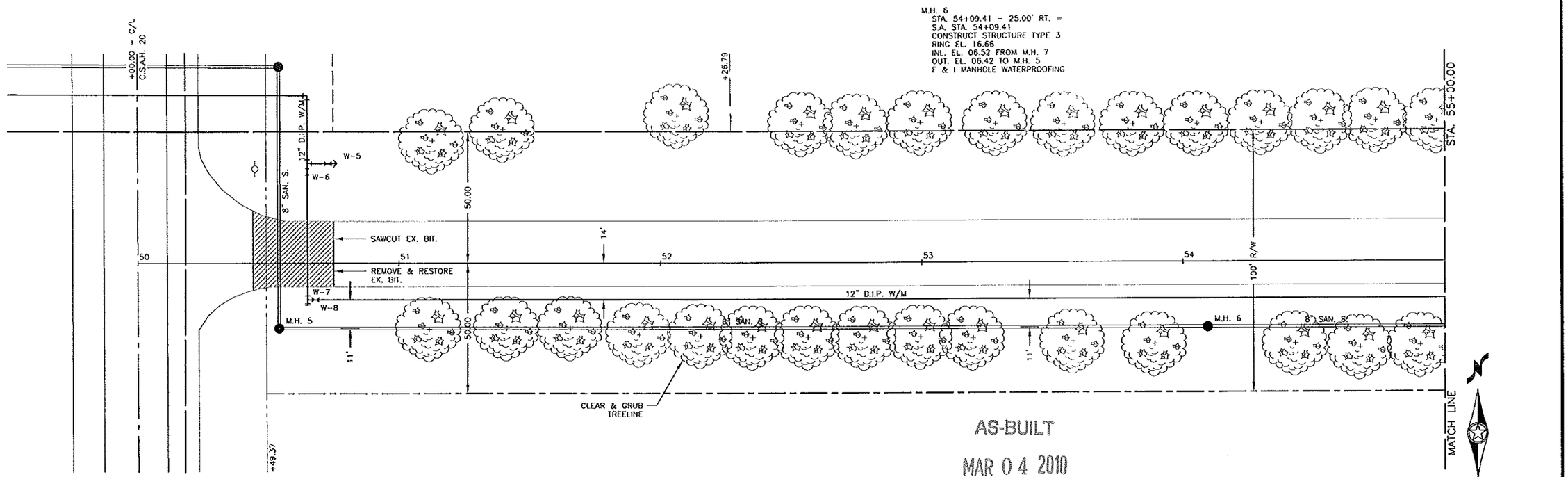
Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert.
1"= 20' Hor.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Michael Meehan
DATE 9/29/08 REG. NO. 10389

City Proj. No. M8-18 J5305 Sheet No. 5 of 18 Sheets

FILE NAME: PWSCEP02.DWG DATE: 09-18-08



AS-BUILT

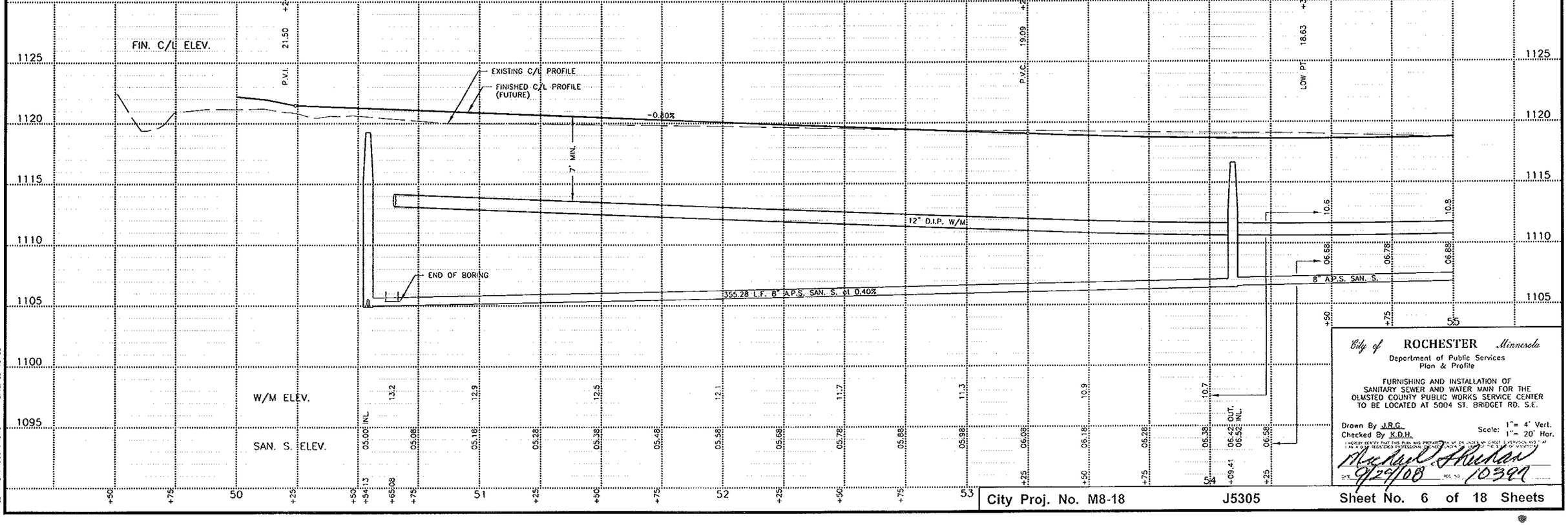
MAR 0 4 2010

ENGINEERING

NOTE: 7' MINIMUM COVER OVER W/M IS REQUIRED.

0 10 20 40
SCALE IN FEET

ACCESS ROAD



City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.
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1"= 20' Hor.

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Michael A. Nielsen
DATE 9/29/08 REG. NO. 10392

City Proj. No. M8-18 J5305 Sheet No. 6 of 18 Sheets

FILE NAME: PWSCCP04.DWG DATE: 09-16-08

M.H. 7
STA. 57+64.69 – 25.00' RT. ∞
S.A. STA. 57+64.69
CONSTRUCT STRUCTURE TYPE 3
RING EL. 20.28
INL. EL. 08.04 FROM M.H. 8
OUT. EL. 07.94 TO M.H. 6
F & I MANHOLE WATERPROOFING

STA. 55+00.00

STA. 60+25.00

MATCH LINE

MATCH LINE

EX. 18" ST. S.

14'

50.00

50.00

55 56 57 58 59 60

SALVAGE & INSTALL 8 L.F. PIPE CULVERT

12" D.I.P. W/M

8" SAN. S.

M.H. 7

8" SAN. S.

11'

11'

CLEAR & GRUB TREELINE

SAWCUT EX. BIT.

REMOVE & RESTORE EX. BIT.

100' R/W

EX. 10" FORCEMAIN (PLASTIC)

AS-BUILT

MAR 04 2010

ENGINEERING

NOTE: 7' MINIMUM COVER OVER W/M IS REQUIRED.

0 10 20 40
SCALE IN FEET

ACCESS ROAD

+25.00 P.V.I. 21.49

+25.00 P.V.C. 26.49

FIN. C/L ELEV.

EXISTING C/L PROFILE

FINISHED C/L PROFILE (FUTURE)

+2.00%

1.50' MIN.

EX. 10" FORCEMAIN (PLASTIC)

7' MIN.

EX. 18" ST. S. (PLASTIC)

P.V.I. STA. 55+25.00
EL. 1117.49
400' V.C.
M= 1.40

12" D.I.P. W/M

18.9

W/M ELEV.

10.96

11.27

SAN. S. ELEV.

355.28 L.F. 8" A.P.S. SAN. S. @ 0.40%

355.28 L.F. 8" A.P.S. SAN. S. @ 1.24%

END OF BORING

1130 1125 1120 1115 1110 1105 1100

10.8 11.1 11.5 12.2 13.0 14.0 15.0 16.0 17.0 18.0

06.88 06.98 07.08 07.18 07.28 07.38 07.48 07.58 07.68 07.78 07.88 07.94 OUT. 08.04 INL. 08.17 08.48 08.79 09.10 09.41 09.72 10.03 10.34 10.65

55 +25 +50 +75 56 +25 +50 +75 57 +25 +50 +64.69 +75 58 +25 +50 59 +25 +50 +75 60 +25

City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert.
1"= 20' Hor.

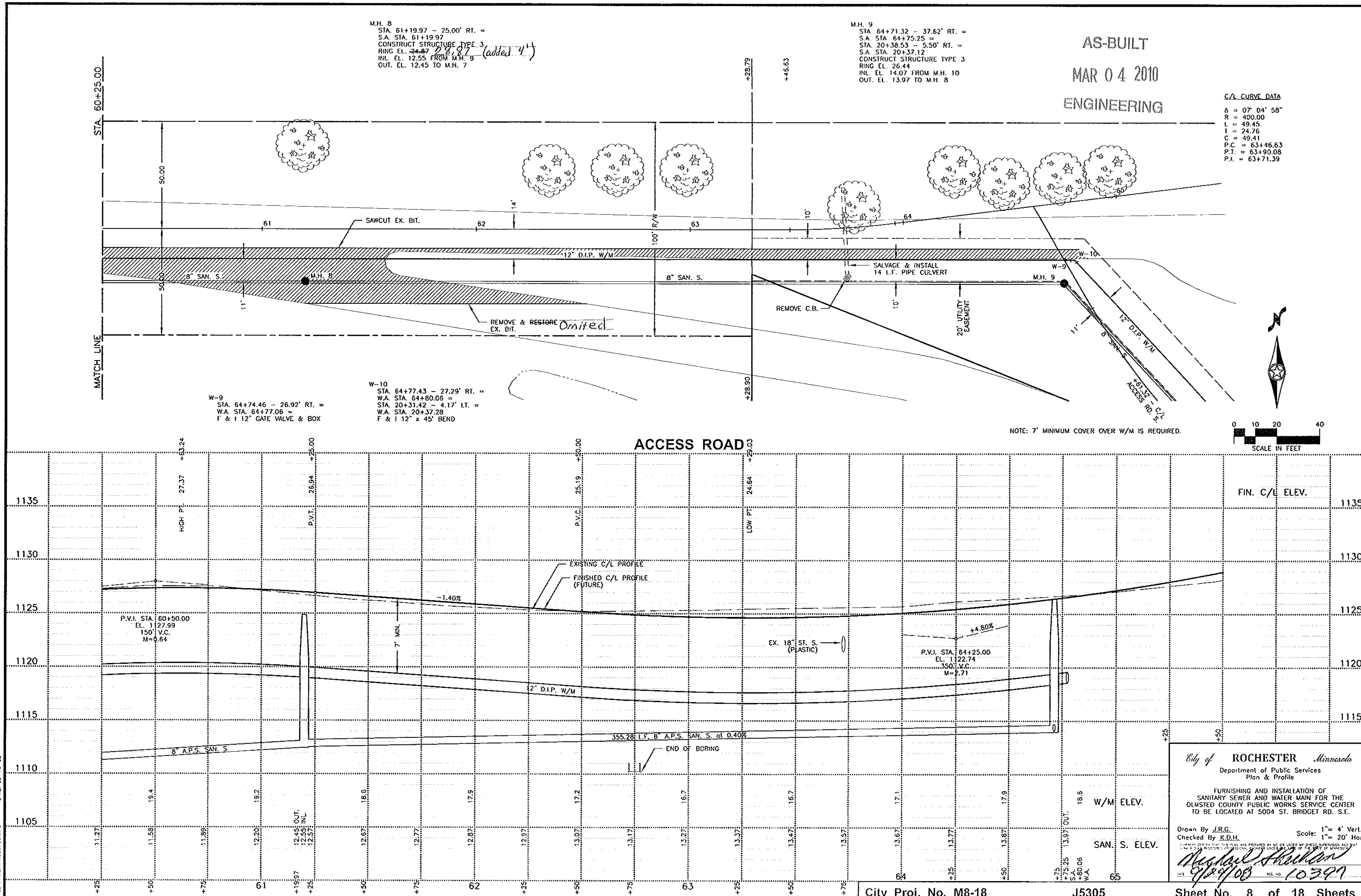
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Margaret A. Richan
9/2/08 REG. NO. 10397

City Proj. No. M8-18 J5305 Sheet No. 7 of 18 Sheets

DATE: 09-16-08

FILE NAME: PWSCCPRO5.DWG



City of **ROCHESTER** Minnesota

Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF
SANITARY SEWER AND WATER MAIN FOR THE
OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER
TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.

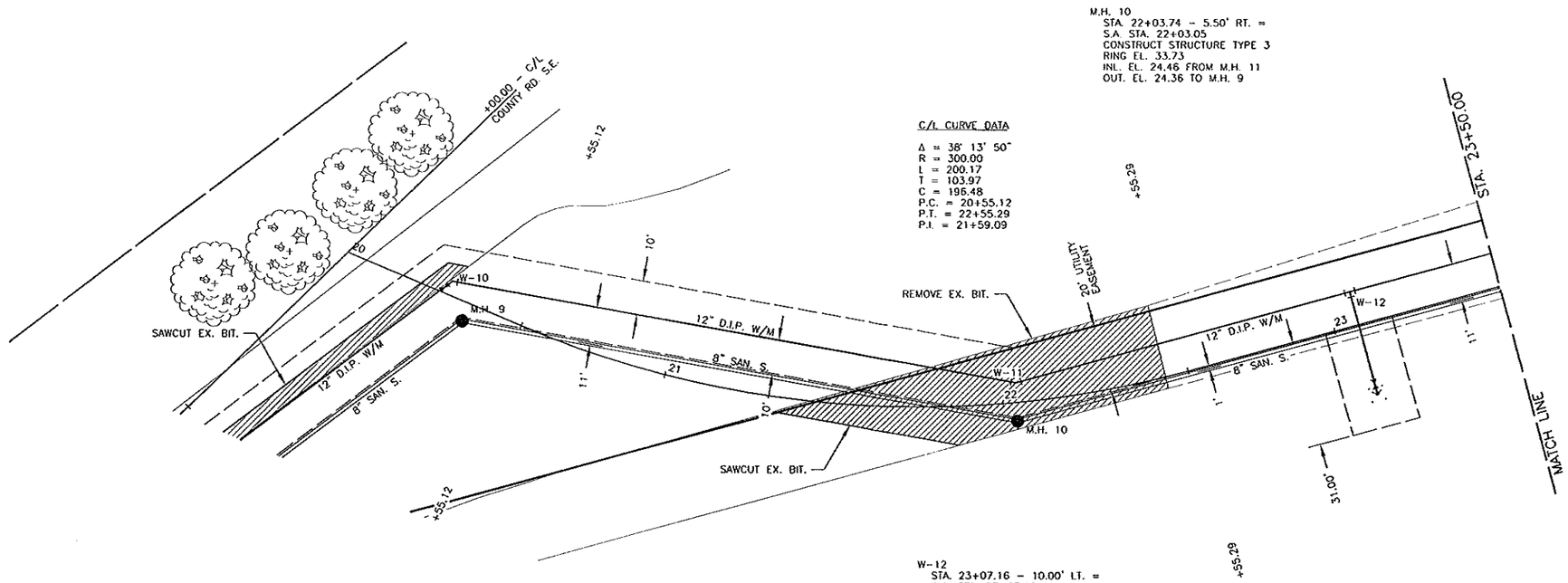
Scale: 1"= 4' Vert. 1"= 20' Hor.

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the state of Minnesota.

[signature]

Date 9/24/08 Reg. No. 10397

City Proj. No. M8-18 J5305

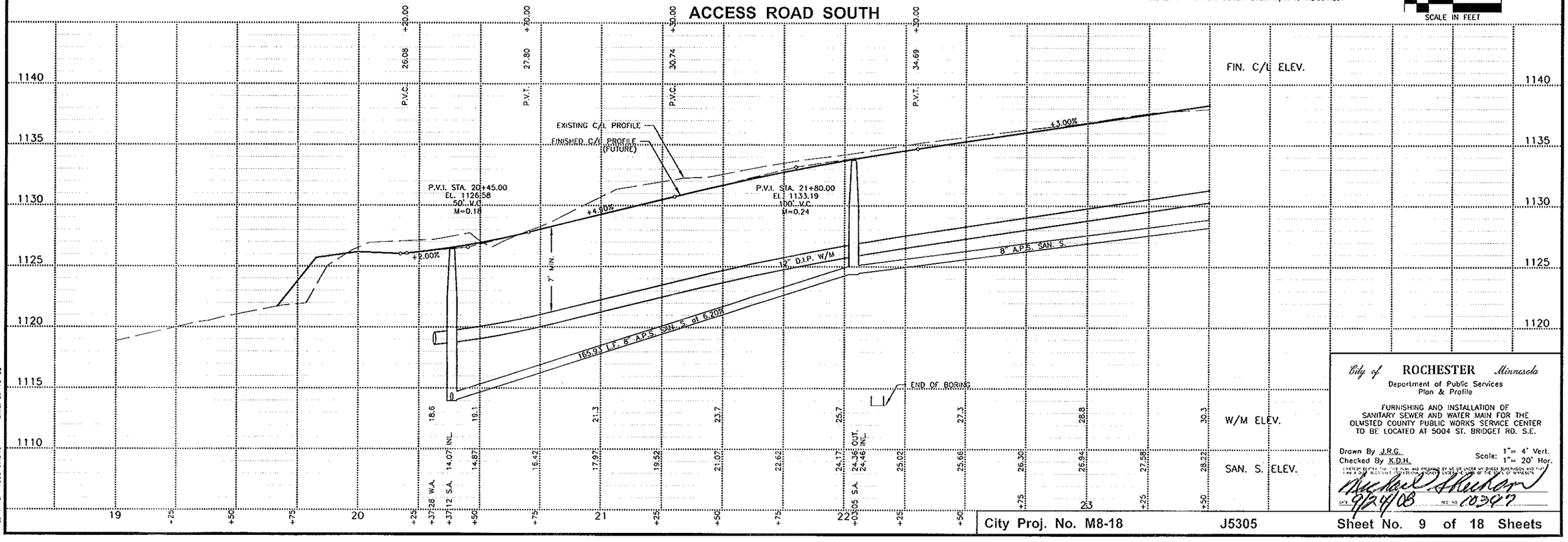


AS-BUILT
MAR 04 2010
ENGINEERING

NOTE: 7' MINIMUM COVER OVER W/M IS REQUIRED.

0 10 20 40
SCALE IN FEET

ACCESS ROAD SOUTH



City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert. 1"= 20' Hor.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Michael S. Shelton
DATE 9/24/08 REG. NO. 10307

City Proj. No. M8-18 J5305 Sheet No. 9 of 18 Sheets

DATE: 09-16-08
FILE NAME: PWSCC907.DWG

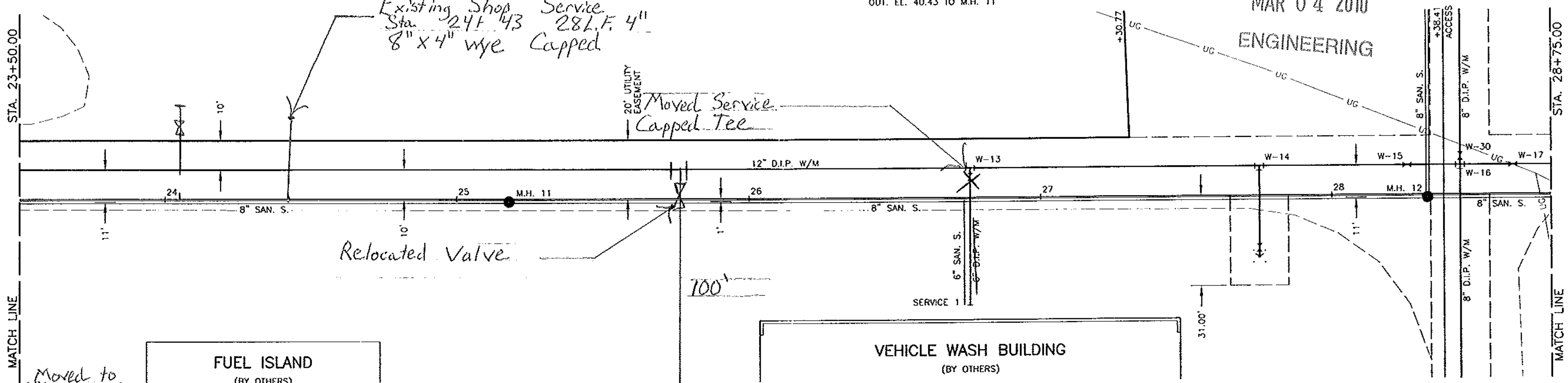
Water Service to existing
Shop 17 L.F. 1" Copper
Curb Stop & Corp.
Connected to plastic line

M.H. 11
STA. 25+17.98 – 1.00' RT. =
S.A. STA. 25+17.98
CONSTRUCT STRUCTURE TYPE 3
RING EL. 43.31
INL. EL. 32.62 FROM M.H. 12
OUT. EL. 32.52 TO M.H. 10

SERVICE 1
STA. 26+73.66 – 1.00' RT. =
S.A. STA. 26+73.66
F & I 8" x 6" WYE
F & I 6" PLUG – 37.00' RT.
INV. EL. 42.00 AT PLUG
36.00 L.F. 6" A.P.S. SAN. S. at 13.47%

M.H. 12
STA. 28+32.91 – 1.00' RT. =
S.A. STA. 28+32.91 =
STA. 39+99.00 – 5.50' LT. =
S.A. STA. 39+99.00
CONSTRUCT STRUCTURE TYPE 3
RING EL. 52.76
INL. EL. 40.53 FROM M.H. 16
INL. EL. 40.53 FROM M.H. 13
OUT. EL. 40.43 TO M.H. 11

AS-BUILT
MAR 04 2010
ENGINEERING



Moved to
Sta. 26+75

W-13
STA. ~~26+75.66~~ – 10.00' LT. =
W.A. STA. 26+75.66
F & I 12" x 6" TEE
F & I 6" GATE VALVE & BOX – 7.00' LT.
~~F & I 6" PLUG – 37.00' RT.~~
PLUG EL. 43.00

W-14
STA. 27+75.00 – 10.00' LT. =
W.A. STA. 27+75.00
F & I 12" x 6" TEE
F & I 6" GATE VALVE & BOX – 18.00' RT.
F & I 6" HYDRANT – 21.00' RT.
F & I 4 – HYDRANT PROTECTIVE POSTS
FLANGE EL. 49.63

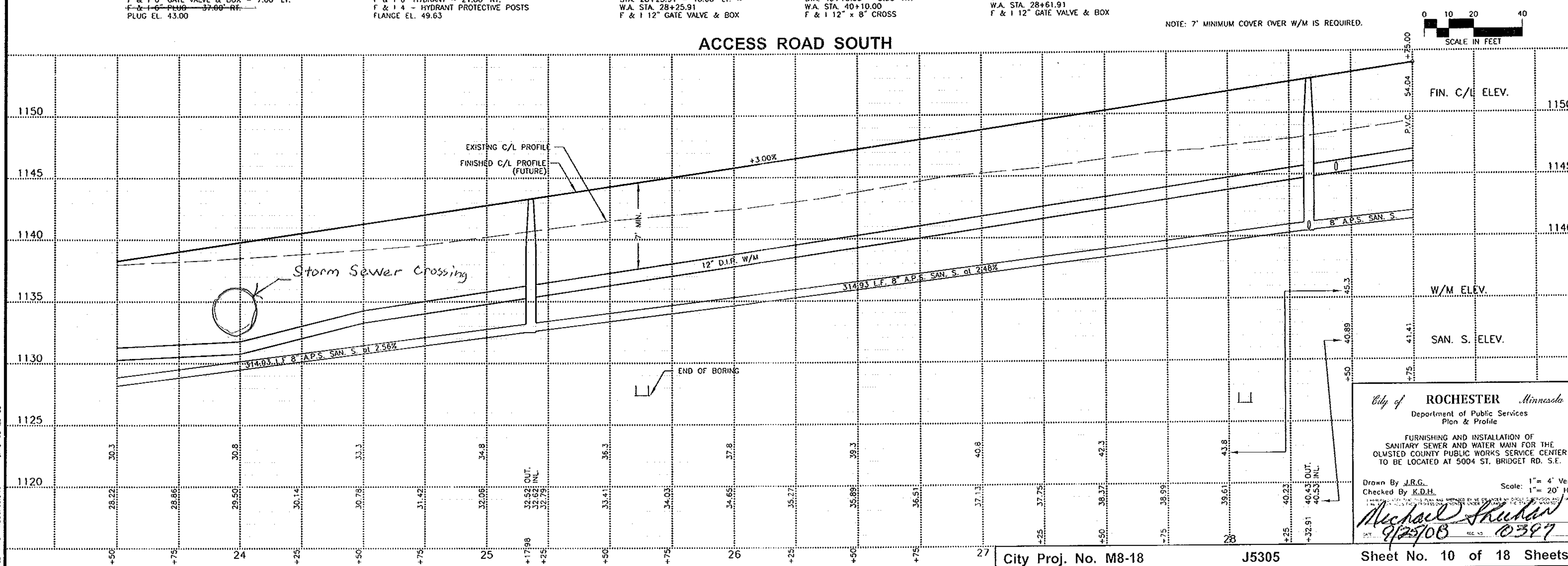
W-15
STA. 28+25.91 – 10.00' LT. =
W.A. STA. 28+25.91
F & I 12" GATE VALVE & BOX

W-16
STA. 28+43.91 – 10.00' LT. =
W.A. STA. 28+43.91 =
STA. 40+10.00 – 5.50' RT. =
W.A. STA. 40+10.00
F & I 12" x 8" CROSS

W-17
STA. 28+61.91 – 10.00' LT. =
W.A. STA. 28+61.91
F & I 12" GATE VALVE & BOX

NOTE: 7' MINIMUM COVER OVER W/M IS REQUIRED.

ACCESS ROAD SOUTH



City of **ROCHESTER** *Minnesota*
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF
SANITARY SEWER AND WATER MAIN FOR THE
OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER
TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert. 1"= 20' Hor.

Michael Sheehan
DATE 9/25/08 REG. NO. 10397

FILE NAME: PWSCCP08.DWG DATE 09-25-08

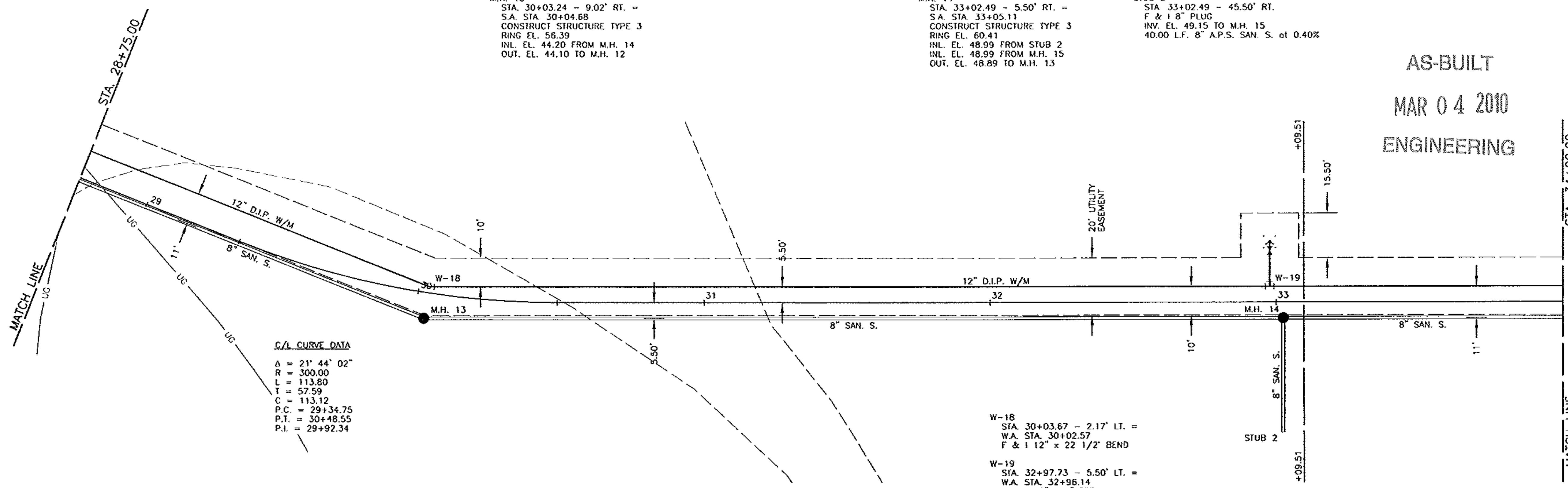
City Proj. No. M8-18 J5305 Sheet No. 10 of 18 Sheets

M.H. 13
STA. 30+03.24 – 9.02' RT. =
S.A. STA. 30+04.68
CONSTRUCT STRUCTURE TYPE 3
RING EL. 56.39
INL. EL. 44.20 FROM M.H. 14
OUT. EL. 44.10 TO M.H. 12

M.H. 14
STA. 33+02.49 – 5.50' RT. =
S.A. STA. 33+05.11
CONSTRUCT STRUCTURE TYPE 3
RING EL. 60.41
INL. EL. 48.99 FROM STUB 2
INL. EL. 48.99 FROM M.H. 15
OUT. EL. 48.89 TO M.H. 13

STUB 2
STA. 33+02.49 – 45.50' RT.
F & I 8" PLUG
INV. EL. 49.15 TO M.H. 15
40.00 L.F. 8" A.P.S. SAN. S. at 0.40%

AS-BUILT
MAR 04 2010
ENGINEERING



C/L CURVE DATA

Δ = 21° 44' 02"
R = 300.00
L = 113.80
T = 57.59
C = 113.12
P.C. = 29+34.75
P.T. = 30+48.55
P.I. = 29+92.34

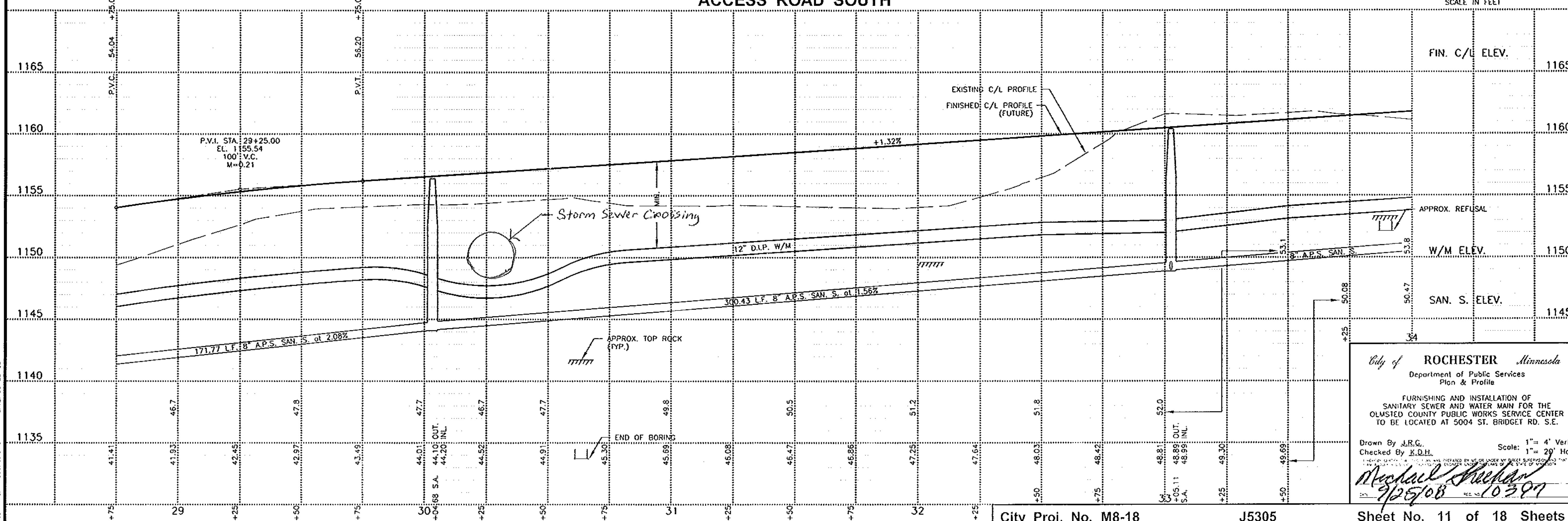
W-18
STA. 30+03.67 – 2.17' LT. =
W.A. STA. 30+02.57
F & I 12" x 22 1/2° BEND

W-19
STA. 32+97.73 – 5.50' LT. =
W.A. STA. 32+96.14
F & I 12" x 6" TEE
F & I 6" GATE VALVE & BOX – 18.00' LT.
F & I 6" HYDRANT – 21.00' LT.
F & I 4 – HYDRANT PROTECTIVE POSTS
FLANGE EL. 59.05

NOTE: 7' MINIMUM COVER OVER W/M IS REQUIRED.

0 10 20 40
SCALE IN FEET

ACCESS ROAD SOUTH



FILE NAME: PWSCCP09.DWG DATE: 09-25-08

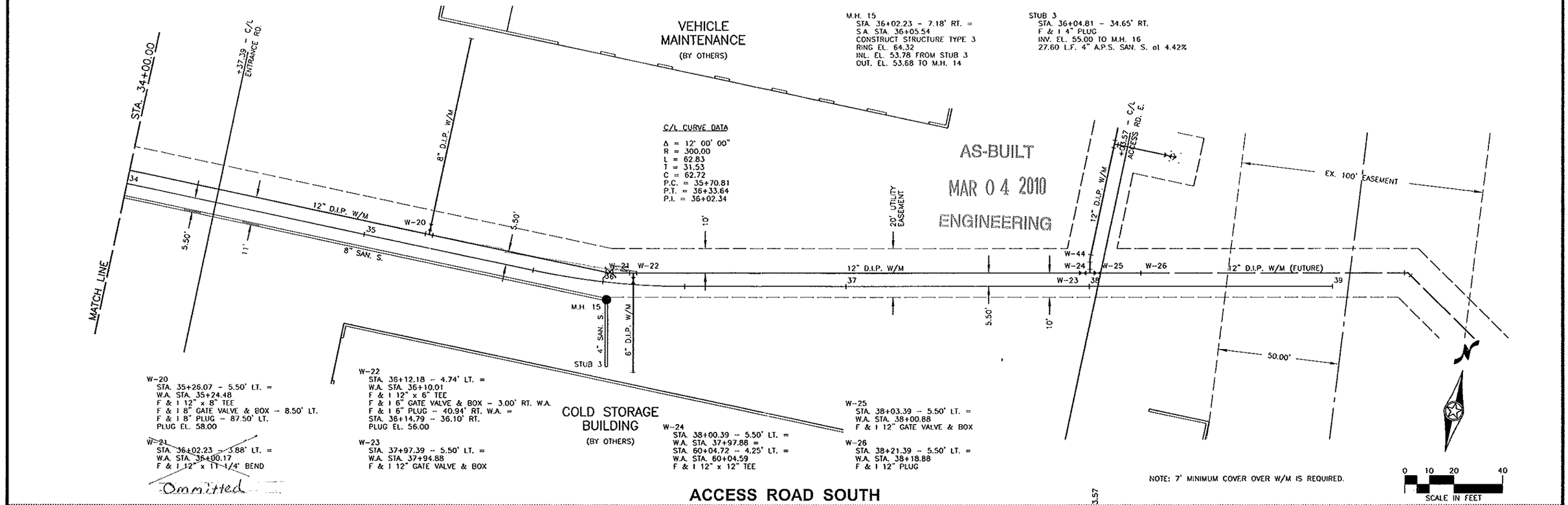
City of **ROCHESTER** *Minnesota*
Department of Public Services
Plan & Profile

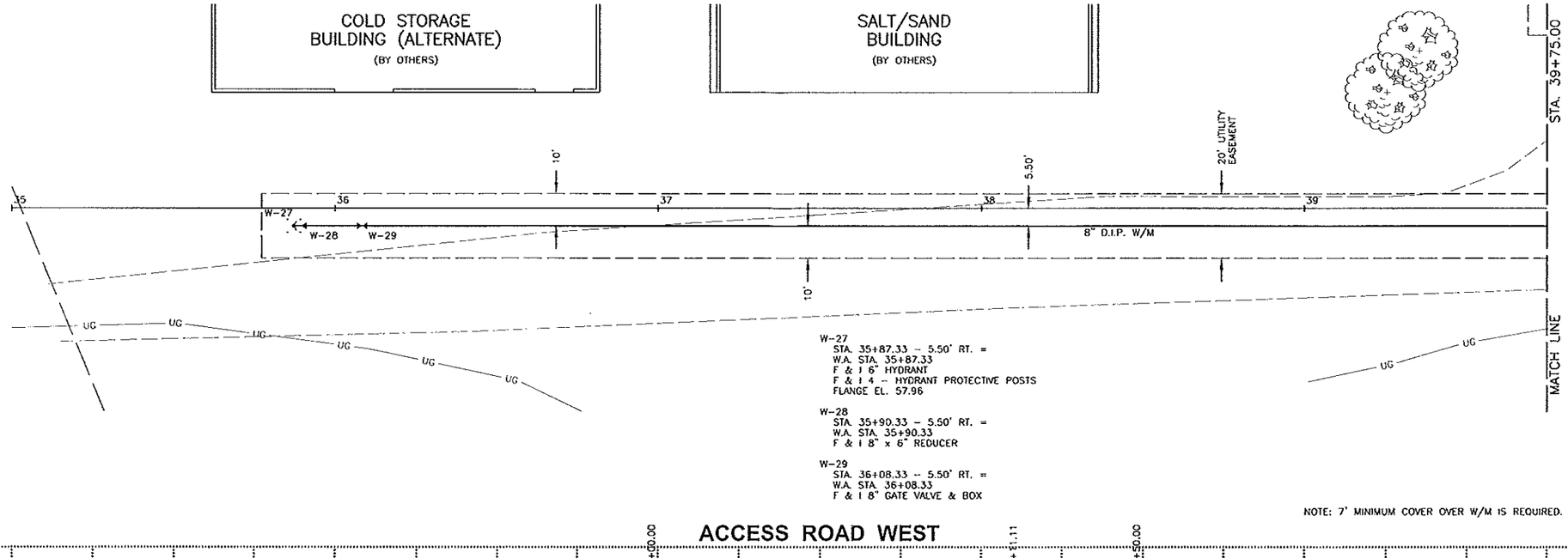
FURNISHING AND INSTALLATION OF
SANITARY SEWER AND WATER MAIN FOR THE
OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER
TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert. 1"= 20' Hor.

Michael Sheehan
DATE 9/25/08 REG. NO. 10397

City Proj. No. M8-18 J5305 Sheet No. 11 of 18 Sheets


VEHICLE MAINTENANCE
(BY OTHERS)
M.H. 15
STA. 36+02.23 – 7.18' RT. =
S.A. STA. 36+05.54
CONSTRUCT STRUCTURE TYPE 3
RING EL. 64.32
INL. EL. 53.78 FROM STUB 3
OUT. EL. 53.68 TO M.H. 14
STUB 3
STA. 36+04.81 – 34.65' RT.
F & I 4" PLUG
INV. EL. 55.00 TO M.H. 16
27.60 L.F. 4" A.P.S. SAN. S. at 4.42%
C/L CURVE DATA
Δ = 12° 00' 00"
R = 300.00
L = 62.83
T = 31.53
C = 62.72
P.C. = 35+70.81
P.T. = 36+33.64
P.I. = 36+02.34
AS-BUILT
MAR 0 4 2010
ENGINEERING
STA. 34+00.00
+37.39 – C/L ENTRANCE RD
+36.57 – C/L ACCESS RD. E.
MATCH LINE
12" D.I.P. W/M
8" SAN. S.
8" D.I.P. W/M
20' UTILITY EASEMENT
EX. 100' EASEMENT
50.00'
M.H. 15
4" SAN. S.
6" D.I.P. W/M
STUB 3
COLD STORAGE BUILDING
(BY OTHERS)
W-20
STA. 35+26.07 – 5.50' LT. =
W.A. STA. 35+24.48
F & I 12" x 8" TEE
F & I 8" GATE VALVE & BOX – 8.50' LT.
F & I 8" PLUG – 87.50' LT.
PLUG EL. 58.00
W-21
STA. 36+02.23 – 3.88' LT. =
W.A. STA. 36+00.17
F & I 12" x 11-1/4" BEND
Ommitted
W-22
STA. 36+12.18 – 4.74' LT. =
W.A. STA. 36+10.01
F & I 12" x 6" TEE
F & I 6" GATE VALVE & BOX – 3.00' RT. W.A.
F & I 6" PLUG – 40.94' RT. W.A. =
STA. 36+14.79 – 36.10' RT.
PLUG EL. 56.00
W-23
STA. 37+97.39 – 5.50' LT. =
W.A. STA. 37+94.88
F & I 12" GATE VALVE & BOX
W-24
STA. 38+00.39 – 5.50' LT. =
W.A. STA. 37+97.88 =
STA. 60+04.72 – 4.25' LT. =
W.A. STA. 60+04.59
F & I 12" x 12" TEE
W-25
STA. 38+03.39 – 5.50' LT. =
W.A. STA. 38+00.88
F & I 12" GATE VALVE & BOX
W-26
STA. 38+21.39 – 5.50' LT. =
W.A. STA. 38+18.88
F & I 12" PLUG
NOTE: 7' MINIMUM COVER OVER W/M IS REQUIRED.
0 10 20 40
SCALE IN FEET
ACCESS ROAD SOUTH
FIN. C/L ELEV.
W/M ELEV.
SAN. S. ELEV.
P.V.I. STA. 36+00.00
EL. 1164.45
NO V.C.
M=0.00
EXISTING C/L PROFILE
FINISHED C/L PROFILE (FUTURE)
+1.32%
+0.54%
7' MIN.
APPROX. TOP ROCK (TYP.)
12" D.I.P. W/M
APPROX. REFUSAL
300.43 L.F. 8" A.P.S. SAN. S. at 1.56%
1175
1170
1165
1160
1155
1150
1145
53.8
54.5
55.1
55.8
56.4
56.7
57.0
56.6
56.4
55.3
50.47
50.86
51.25
51.64
52.03
52.42
52.81
53.20
53.59
53.68 OUT.
53.54 S.A.
34
+25
+50
+75
35
+25
+50
+75
36
+05
+25
+50
+75
37
+25
+50
+75
38
+18.88 W.A.
+25
+50
+75
39
City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile
FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.
Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert. 1"= 20' Hor.
9/23/08
16397
DATE: 09-25-08
FILE NAME: PWSCPP10.DWG
City Proj. No. M8-18
J5305
Sheet No. 12 of 18 Sheets



AS-BUILT
MAR 0 4 2010
ENGINEERING

City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF
SANITARY SEWER AND WATER MAIN FOR THE
OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER
TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert.
1"= 20' Hor.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Richard Sheridan
9/24/08 REG. NO. 10309

City Proj. No. M8-18 J5305 Sheet No. 13 of 18 Sheets

DATE: 09-16-08
FILE NAME: PWSCCP11.DWG

M.H. 16
STA. 42+98.70 – 5.50' LT. =
S.A. STA. 42+98.70 =
STA. 9+95.77 – 4.25' LT. =
S.A. STA. 9+95.77
CONSTRUCT STRUCTURE TYPE 3
RING EL. 55.14
INL. EL. 45.31 FROM CLEANOUT 1
OUT. EL. 45.21 TO M.H. 12

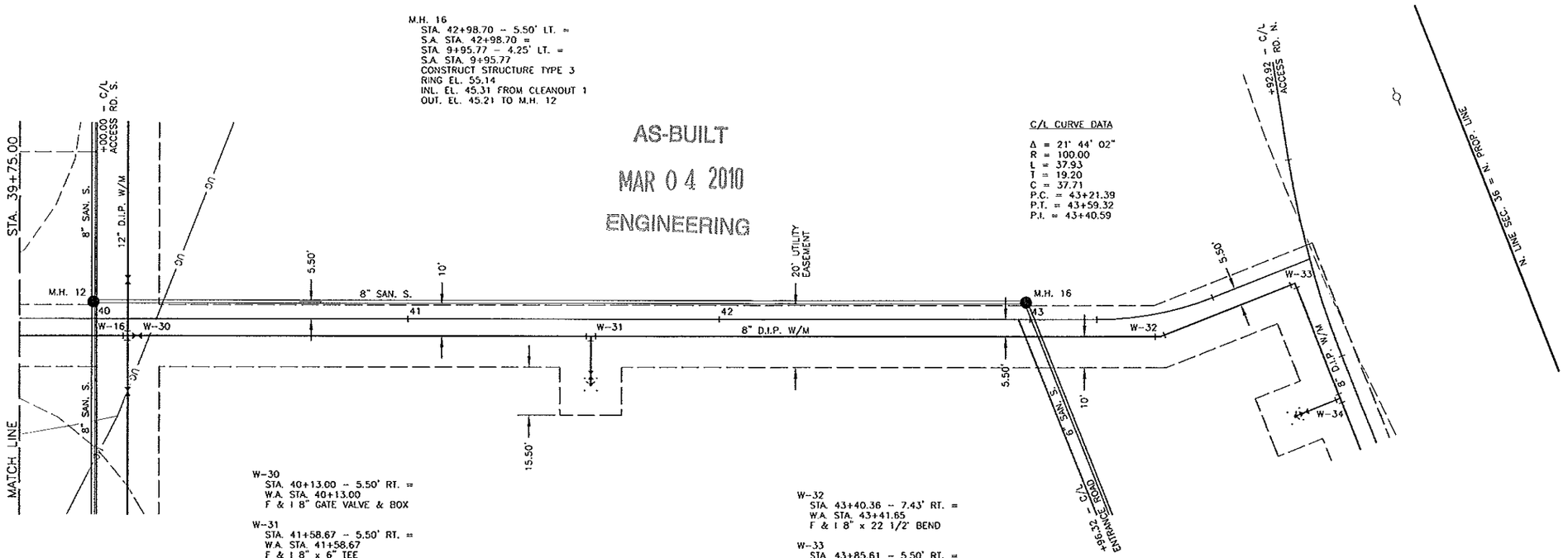
AS-BUILT

MAR 0 4 2010

ENGINEERING

C/L CURVE DATA

Δ = 21° 44' 02"
R = 100.00
L = 37.93
T = 19.20
C = 37.71
P.C. = 43+21.39
P.T. = 43+59.32
P.I. = 43+40.59



W-30
STA. 40+13.00 – 5.50' RT. =
W.A. STA. 40+13.00
F & I 8" GATE VALVE & BOX

W-31
STA. 41+58.67 – 5.50' RT. =
W.A. STA. 41+58.67
F & I 8" x 6" TEE
F & I 6" GATE VALVE & BOX – 18.00' RT.
F & I 6" HYDRANT – 21.00' RT.
F & I 4 – HYDRANT PROTECTIVE POSTS
FLANGE EL. 53.75

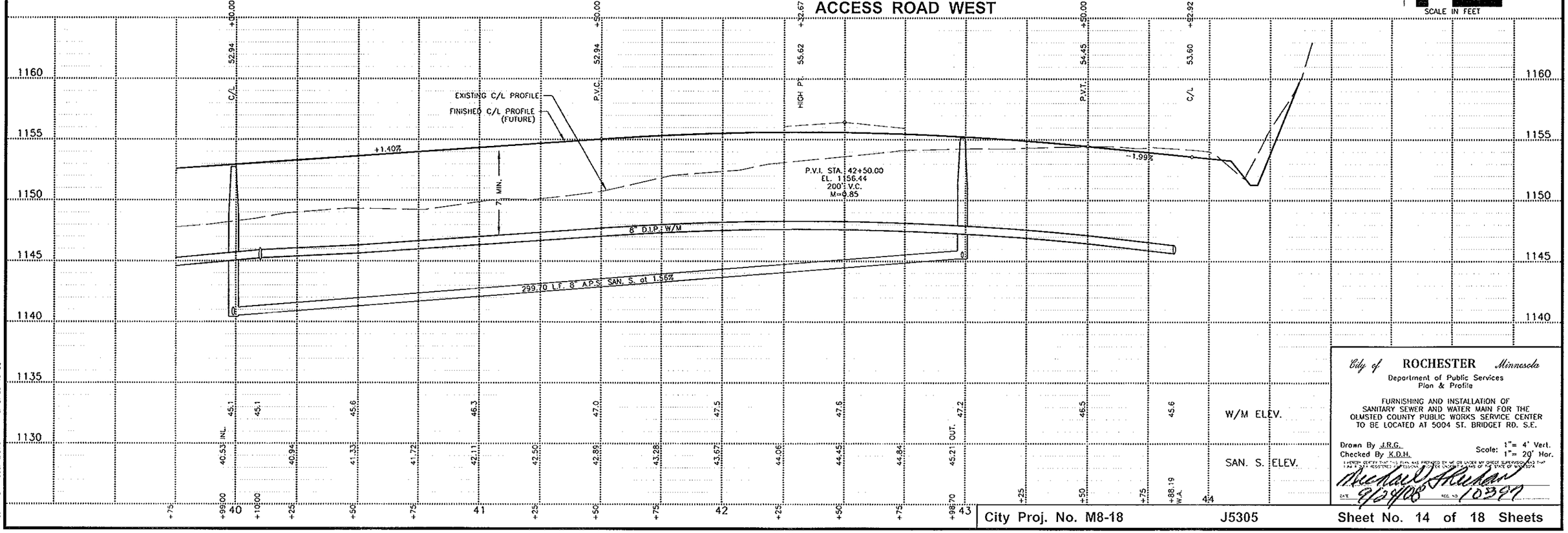
W-32
STA. 43+40.36 – 7.43' RT. =
W.A. STA. 43+41.65
F & I 8" x 22 1/2° BEND

W-33
STA. 43+85.61 – 5.50' RT. =
W.A. STA. 43+88.19 =
STA. 73+17.05 – 6.72' RT. =
W.A. STA. 73+15.92
F & I 8" x 90° BEND

NOTE: 7' MINIMUM COVER OVER W/M IS REQUIRED.

0 10 20 40
SCALE IN FEET

ACCESS ROAD WEST



City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert. 1"= 20' Hor.

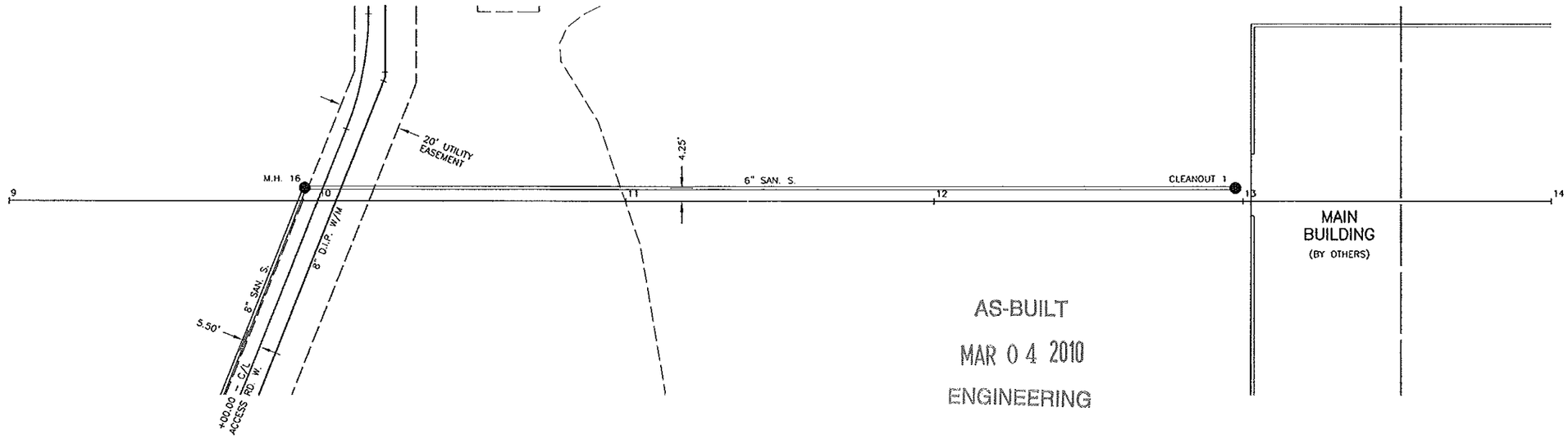
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

Kenneth D. Hedeen
DATE 9/24/08 REG. NO. 10397

City Proj. No. M8-18 J5305 Sheet No. 14 of 18 Sheets

FILE NAME: PWSCEP12.DWG DATE: 09-16-08

CLEANOUT 1
STA. 12+97.62 – 4.25' LT. =
S.A. STA. 12+97.62
F & I 6" CLEANOUT ASSEMBLY
RING EL. 60.80
INV. EL. 53.16 TO M.H. 17



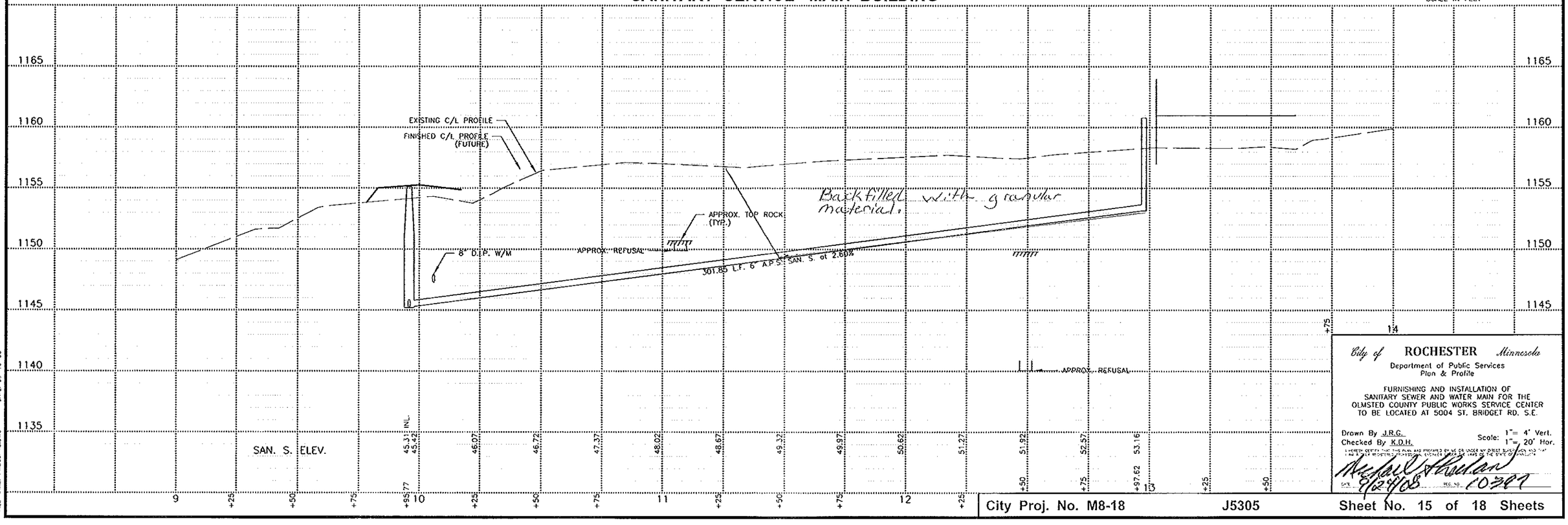
AS-BUILT

MAR 0 4 2010

ENGINEERING

SCALE IN FEET 0 10 20 40

SANITARY SERVICE - MAIN BUILDING



City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

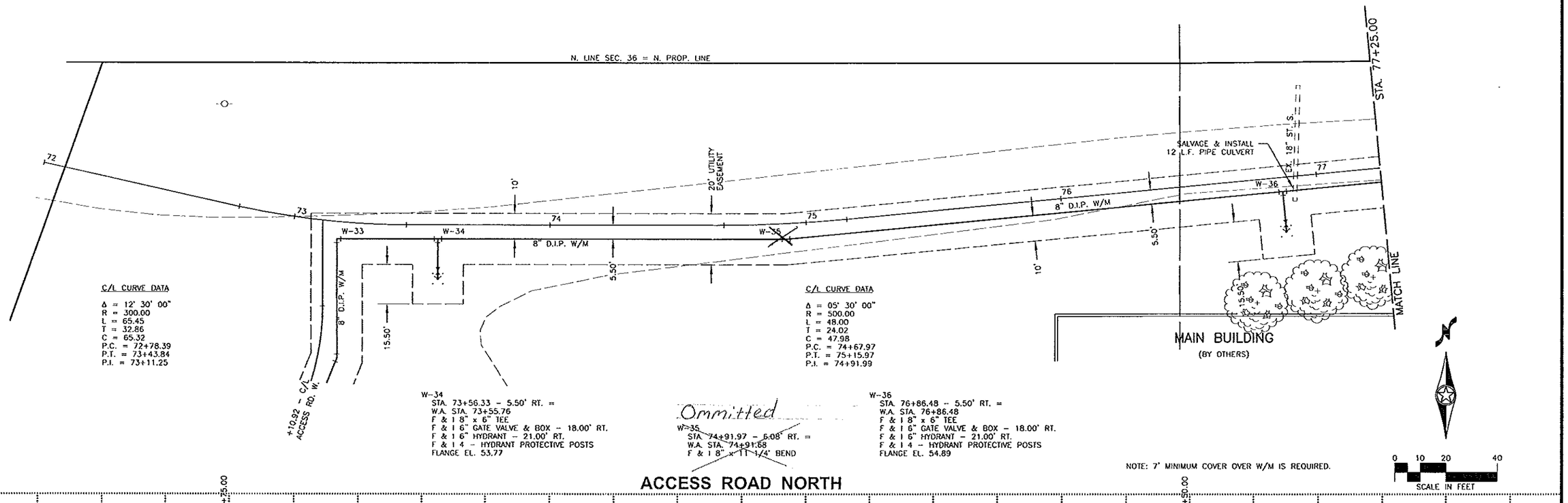
Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert. 1"= 20' Hor.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

Kyle D. Hueman
DATE 6/24/08 REG. NO. 40397

City Proj. No. M8-18 J5305 Sheet No. 15 of 18 Sheets

DATE: 09-16-08
FILE NAME: PWSCOP13.DWG



DATE: 09-16-08

FILE NAME: PWSCP14.DWG

City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert.
1"= 20' Hor.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Michael K. Herkert
DATE 9/25/08 REG. NO. 10307

City Proj. No. M8-18 J5305 Sheet No. 16 of 18 Sheets

AS-BUILT

MAR 0 4 2010

ENGINEERING

STA. 77+25.00

MATCH LINE

29.00'

20' UTILITY EASEMENT

N. LINE SEC. 36 = N. PROP. LINE

50.00'

50.00'

10'

5.50'

15.50'

5.50'

64'

10'

78

79

80

81

82

8" D.I.P. W/M

8" D.I.P. W/M

12" D.I.P. W/M (FUTURE)

EX. 100' EASEMENT

+37.96 C/L ACCESS RD. E.

W-37

W-38

W-39

W-40

W-41

W-42

W-43

C/L CURVE DATA

Δ = 04° 53' 10"
R = 500.00
L = 42.64
T = 21.33
C = 42.63
P.C. = 78+50.40
P.T. = 78+93.04
P.I. = 78+71.73

Omitted

W-37
STA. 78+71.72 – 5.05' RT. =
W.A. STA. 78+71.49
F & I 8" x 11 1/4° BEND

W-38
STA. 80+20.91 – 5.50' RT. =
W.A. STA. 80+20.46
F & I 8" x 8" TEE
F & I 6" GATE VALVE & BOX – 18.00' RT.
F & I 6" HYDRANT – 21.00' RT.
F & I 4 – HYDRANT PROTECTIVE POSTS
FLANGE EL. 65.41

W-39
STA. 81+26.41 – 5.50' RT. =
W.A. STA. 81+25.96
F & I 8" GATE VALVE & BOX

W-40
STA. 81+29.41 – 5.50' RT. =
W.A. STA. 81+28.96
F & I 12" x 8" REDUCER

W-41
STA. 81+32.41 – 5.50' RT. =
W.A. STA. 81+31.96 =
STA. 64+15.50 – 5.50' LT. =
W.A. STA. 64+15.50
F & I 12" x 12" TEE

W-42
STA. 81+35.41 – 5.50' RT. =
W.A. STA. 81+34.96
F & I 12" GATE VALVE & BOX

W-43
STA. 81+53.41 – 5.50' RT. =
W.A. STA. 81+52.96
F & I 12" PLUG

NOTE: 7' MINIMUM COVER OVER W/M IS REQUIRED.

0 10 20 40
SCALE IN FEET

ACCESS ROAD NORTH

+00.00

61.94 P.V.T.

FIN. C/L ELEV.

+4.00%

EXISTING C/L PROFILE

FINISHED C/L PROFILE (FUTURE)

+4.00%

12" D.I.P. W/M

7' MIN.

+0.72%

8" D.I.P. W/M

P.V.I. STA.: 77+75.00
EL. 1156.94
250' V.C.
M=1.02

1175
1170
1165
1160
1155
1150
1145

49.4 50.6 52.1 53.9 55.9 57.9 59.9 61.9 63.9 64.1 W/M ELEV.

+25 +50 +75 78 +25 +50 +75 79 +25 +50 +75 80 +25 +50 +75 81 +25 +50 +52.96 W.A. +75 82

City of ROCHESTER Minnesota
Department of Public Services
Plan & Profile

FURNISHING AND INSTALLATION OF SANITARY SEWER AND WATER MAIN FOR THE OLMSTED COUNTY PUBLIC WORKS SERVICE CENTER TO BE LOCATED AT 5004 ST. BRIDGET RD. S.E.

Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert. 1"= 20' Hor.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Michael D. Nielsen
DATE 9/26/08 REG. NO. 10327

City Proj. No. M8-18 J5305 Sheet No. 17 of 18 Sheets

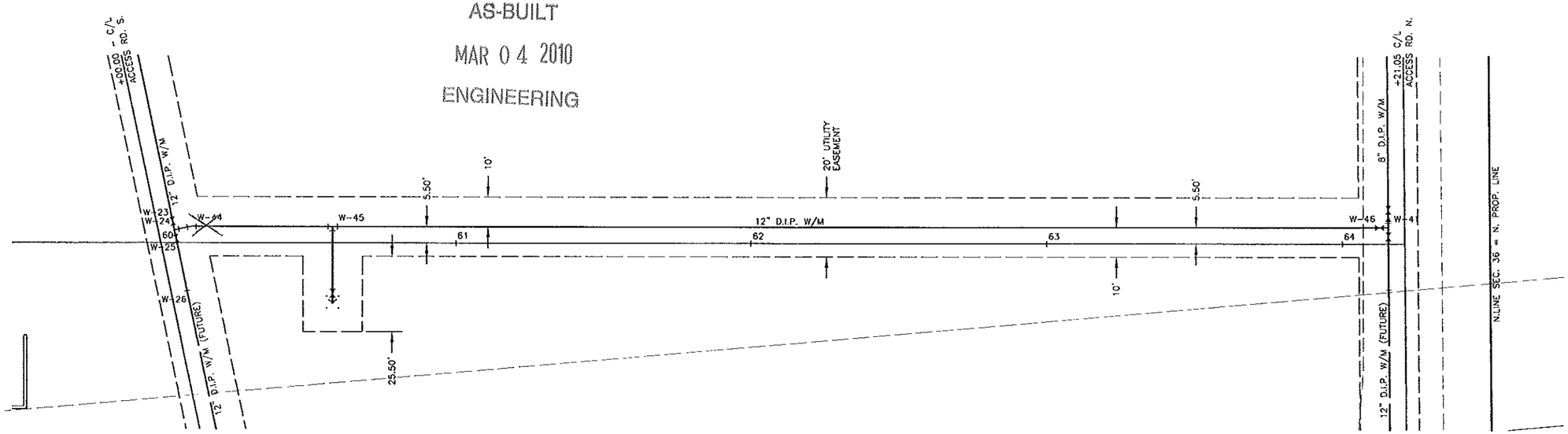
DATE: 09-16-08

FILE NAME: PWSCDP15.DWG

AS-BUILT

MAR 0 4 2010

ENGINEERING



Ommitted

W-44
STA. 60+10.59 - 5.50' LT. =
W.A. STA. 60+10.59
F & I 12" x 11 1/4" BEND

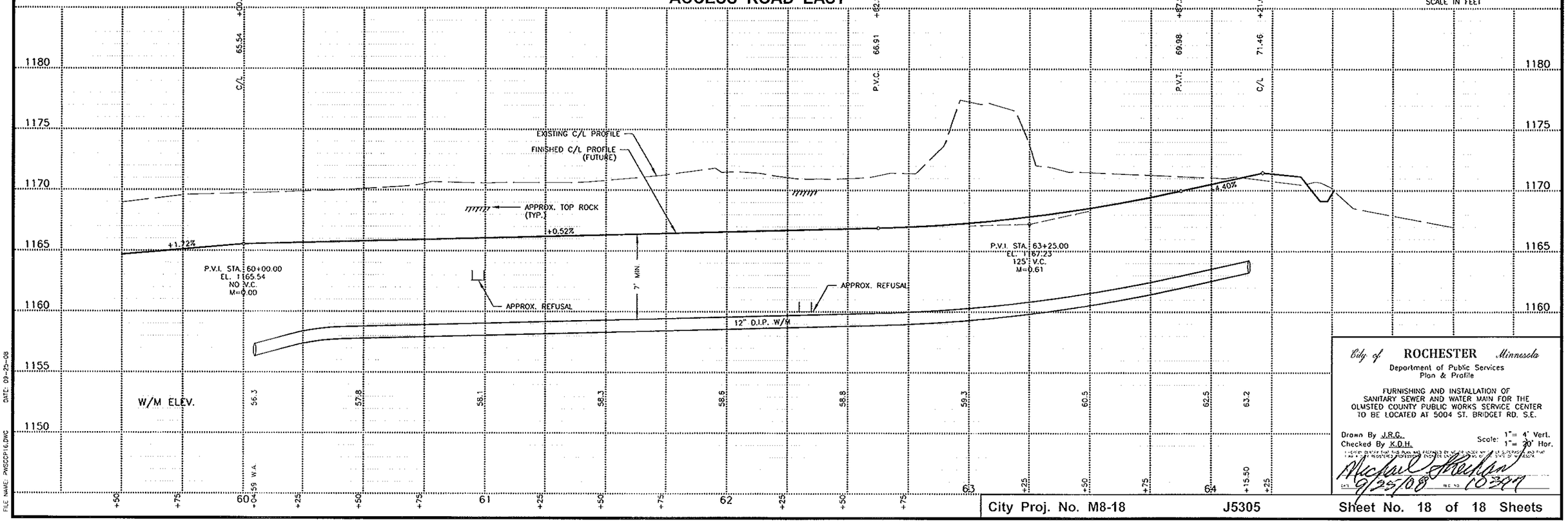
W-45
STA. 60+58.45 - 5.50' LT. =
W.A. STA. 60+58.45
F & I 12" x 6" TEE
F & I 6" GATE VALVE & BOX - 17.00' RT.
F & I 6" HYDRANT - 20.00' RT.
F & I 4 - HYDRANT PROTECTIVE POSTS
FLANGE EL. 64.45

W-46
STA. 64+12.50 - 5.50' LT. =
W.A. STA. 60+12.50
F & I 12" GATE VALVE & BOX

NOTE: 7' MINIMUM COVER OVER W/M IS REQUIRED.

0 10 20 40
SCALE IN FEET

ACCESS ROAD EAST



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Drawn By J.R.G.
Checked By K.D.H.
Scale: 1"= 4' Vert.
1"= 20' Hor.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Michael Sheehan 10339
DATE 9/25/08 REG. NO.

City Proj. No. M8-18 J5305 Sheet No. 18 of 18 Sheets

DATE: 09-25-08
FILE NAME: PWSCCP16.DWG