PROJ 0512241 - Holdrege Water Main.ctg
PEN ...\Resources\PenSW_PENTABLE.tbl
USER jhudson
DATE 4/10/2007
DGN ...\Addendum 1\702279SC01.dgn

PAVING ITEMS			
01.0100	PAVEMENT & SIDEWALK REMOVAL	CU. YD.	1,606
01.0104	REMOVE STRUCTURE	SQ. FT.	148
01.0110	7" CONCRETE BASE	SQ.YD.	78
01.0140	A.C. SURFACE COURSE FOR ARTERIAL STREETS	TON	8.5
01.0190	STD. MONUMENT BOX (IN PLACE)	EA.	2
01.0210	TYPE 'A' SAWING	L.F.	402.2
01.0220	TYPE 'B' SAWING	L.F.	664
01.0230	TYPE 'C' SAWING	L.F.	801
02.0020	TREE REMOVAL (12" TO 23")	EA.	12
02.0030	TREE REMOVAL (24" TO 35")	EA.	2
02.0040	TREE REMOVAL (36" & OVER)	EA.	29
03.0020	9" P.C.C. PAVT.	SQ.YD.	137
03.0050	6" P.C.C. PAVT.	SQ.YD.	4,502
03.0060	9" P.C.C. PAVT. W/INT. CURB	SQ.YD.	101
03.0090	6" P.C.C. PAVT. W/INT. CURB	SQ.YD.	1,497
06.0020	COMBINED CURB AND GUTTER	L.F.	1,829
07.0020	4" CONC. SIDEWALK	SQ.FT.	7,743
07.0030	6" CONC. DRIVEWAY	SQ.FT.	3,520
07.0040	5" CONCRETE DRIVEWAY	SQ.FT.	2,197
07.0100	BUILD DETECTABLE WARNING PANEL	SQ.FT.	144
08.0025	MODULAR BLOCK RETAINING WALL	SQ.FT.	148
09.0060	48" CHAIN LINK FENCE (IN PLACE)	L.F.	18.5
50.0045	REMOVE & REPLACE MOD. BLOCK RETAINING WALL	SQ.FT.	320
99.0601	REM. AND REPL. 24" COMB. CURB AND GUTTER	L.F.	258

STORM DRAINAGE ITEMS			
21.0170	48" R.C.P. STORM SEWER, CL. IV	L.F.	76
21.0180	42" R.C.P. STORM SEWER, CL. IV	L.F.	37
21.0240	15" R.C.P. STORM SEWER, CL. IV	L.F.	123
21.0940	CONC. FOR COLLARS, ELBOWS, & HDWLLS (IN PL)	C.Y.	8.18
21.0950	RE. STEEL FOR COLLARS, ELBOWS, & HDWLLS (IN PL)	LBS.	1,105.8
21.0690	42" R.C. FES, W/GRATE	EA.	1
21.1240	REMOVE 54" STORM SEWER PIPE	L.F.	76
21.1260	REMOVE 42" STORM SEWER PIPE	L.F.	37
21.1320	REMOVE 15" STORM SEWER PIPE	L.F.	28
21.1620	REMOVE 42" R.C. F.E.S.	EA.	1
21.1710	REMOVE EXIST. INLET (CMPL)	EA.	3
21.1850	4' R.C. LOW FLOW LINER	L.F.	139
21.0700	72" STORM SEWER INLET, ALL TYPES	EA.	3
21.1750	REMOVE EXISTING HEADWALL (COMPLETE)	EA.	1

WASTE WATER ITEMS			
22.0085	8" SANITARY SEWER PIPE (C900)	L.F.	80
22.0700	STD. MANHOLE, TYPE 'S'	EA.	5
22.0710	STD. MANHOLE, TYPE 'S'	V.F.	62.1
22.0820	RECONSTRUCT WASTEWATER SERVICE	EA.	19
22.0850	4" PIPE SEWER SERVICE	L.F.	160
50.0005	8" SANITARY SEWER PIPE, B.I.P.	L.F.	1,141
50.0005	4" SANITARY SEWER FORCE MAIN PIPE (C900)	L.F.	30

WATER MAIN ITEMS			
23.0005	16" WATER MAIN	L.F.	798
23.0006	12" WATER MAIN	L.F.	10
23.0008	6" WATER MAIN	L.F.	221
23.0420	16" BUTTERFLY VALVE, M.J.	EA.	1
23.0430	12" BUTTERFLY VALVE, M.J.	EA.	1
23.0460	6" GATE VALVE, M.J.	EA.	4
23.0492	HYDRANT, COMPLETE (L=6.5')	EA.	2
23.0510	12" RETAINER GLANDS, M.J.	EA.	1
23.0530	6" RETAINER GLANDS, M.J.	EA.	20
23.0544	12" x 45° BEND, M.J.	EA.	1
23.0546	6" x 45° BEND, M.J.	EA.	4
23.0576	16" x 6" TEE, M.J.	EA.	3
23.0590	6" x 6" SWIVEL TEE, M.J.	EA.	1
23.0592	6" ANCHORING ELBOW, M.J.	EA.	2
23.0593	6" ANCHORING COUPLING, M.J. (L=12")	EA.	2
23.0594	6" ANCHORING COUPLING, M.J. (L=18")	EA.	2
23.0638	6" OFFSET, 24" DROP, M.J.	EA.	1
23.0639	6" OFFSET, 18" DROP, M.J.	EA.	1
23.0646	16" SOLID SLEEVE, M.J. (L=15")	EA.	2
23.0651	6" SOLID SLEEVE, M.J. (L=18")	EA.	4
23.0658	16" PLUG, M.J.	EA.	1
23.0660	12" PLUG, M.J.	EA.	1
23.0690	LOOP WATER SERVICE	EA.	20
23.0715	3/4" COPPER WATER SERVICE PIPE	L.F.	450
50.0005	2 1/2" COPPER WATER SERVICE PIPE	L.F.	25
23.0920	REMOVE 16" WATER MAIN	L.F.	672
23.0950	REMOVE 6" WATER MAIN	L.F.	35
23.0960	REMOVE AND SALVAGE HYDRANT, COMPLETE	EA.	2
23.1000	REMOVE & SALVAGE GATE VALVE & BOX, (COMPLETE)	EA.	2
23.1030	REMOVE AND RESET HYDRANT (COMPLETE)	EA.	1
23.1110	REMOVE AND SALVAGE 16" PLUG	EA.	1
50.0001	COMBINATION AIR VALVE IN MANHOLE	EA.	2
50.0001	54" x 45° BEND	EA.	4
50.0001	54" x 6° BEND	EA.	2
50.0001	54" x 30° BEND	EA.	2
50.0001	54" x 4° BEND	EA.	2
50.0001	54" x 12" TANGENTIAL OUTLET	EA.	1
50.0001	54" x 6" TEE	EA.	1
50.0001	54" BULKHEAD	EA.	1
50.0001	54" x 8" TANGENTIAL OUTLET & BLOW-OFF ASSEMBLY	EA.	3
50.0005	54" WATER MAIN	L.F.	5,600
50.0005	12" SMOOTH STEEL CASING, 0.25" THICK, B.I.P.	L.F.	75
50.0005	72" SMOOTH STEEL CASING, 0.50" THICK, B.I.P.	L.F.	264.5
23.0665	CONC. FOR THRUST BLOCK & ANCHORAGE(IN PLACE)	C.Y.	3.58
23.0670	REINF. STEEL FOR THRUST BLOCK & ANCHORAGE	LB.	70.8
23.0500	16" RETAINER GLANDS	EA.	2

EROSION CONTROL ITEMS			
30.0010	SODDING, COMPLETE	S.F.	28,614
30.0100	SEEDING, TYPE "A"	AC.	5.5
32.0040	SYNTHETIC FABRIC SILT FENCE INSTALLATION	L. F.	2210
32.0050	SYNTHETIC FABRIC SILT FENCE MAINTENANCE	L. F.	2210
32.0060	SYNTHETIC FABRIC SILT FENCE REMOVAL	L. F.	2210
32.0070	INSTALL STORM DRAIN INLET PROTECTION (TYPE II)	EA.	2
32.0080	STORM DRAIN INLET PROTECTION MAINT (TYPE II)	EA.	2
32.0090	REMOVE STORM DRAIN INLET PROTECTION (TYPE II)	EA.	2

MISCELLANEOUS ITEMS			
00.2000	CONSTRUCTION STAKING	L. S.	1
00.4000	MOBILIZATION	L. S.	1
02.0010	GENERAL CLEARING & GRUBBING	L. S.	1
15.0001	TRAFFIC CONTROL FOR CONSTRUCTION	L. S.	1
50.0001	C.P. TEST STATIONS	EA.	17
50.0015	C.P. SYSTEM START-UP AND TESTING	L. S.	1
50.0015	CONNECT TO EXISTING 54" WATER MAIN	L. S.	1

NOTES:

1. CURB AND GUTTER REMOVAL ON CARLOS DRIVE IS INCLUDED IN ITEM 01.0100 PAVEMENT AND SIDEWALK REMOVAL.
2. CURB REPLACEMENT ON CARLOS DRIVE IS INCLUDED IN ITEM 06.0020 COMBINED CURB AND GUTTER.
3. CURB AND GUTTER REMOVAL AND REPLACEMENT IN AREAS OTHER THAN CARLOS DRIVE IS INCLUDED IN ITEM 99.0601 REMOVE AND REPLACE 24" COMBINATION CURB AND GUTTER.
4. ITEMS 01.0100 AND 06.0020 INCLUDE SUFFICIENT QUANTITY TO REMOVE AND REPLACE CURB AND GUTTER ON WEST SIDE OF CARLOS DRIVE.

PROFESSIONAL CIVIL ENGINEER
SCOTT K. SCHMOKER
E-8251
4-11-07
STATE OF NEBRASKA

117-C-95

PROJ: 0512241 - Holdrege Water Main.dfg
PEN: ...\Resources\Pen\BW_PENTABLE.tbl
USER: jknutson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279GN01.dgn

LEGEND – SURVEY (UTILITIES)

- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRICAL RISER
- GAS BLOW OFF
- GAS METER
- GAS VALVE
- GUY POLE
- GUY ANCHOR
- LIGHT POLE
- MONITORING WELL
- ORNAMENTAL LIGHT
- PULL BOX
- SPRINKLER CONTROL BOX
- SPRINKLER HEAD
- STORM DRAINAGE FLARED END SECTION
- STORM DRAINAGE GRATE INLET
- STORM DRAINAGE CURB INLET
- STORM DRAINAGE MANHOLE
- TELEPHONE BOX
- TELEPHONE PULL BOX
- TELEVISION/CABLE RISER BOX
- TRAFFIC SIGNAL
- TRAFFIC CONTROL BOX
- UTILITY POLE
- WASTE WATER MANHOLE
- WATER HYDRANT
- WATER BLOW OFF
- WATER MANHOLE
- WATER PRIVATE WELL
- WATER STOP BOX
- WATER VALVE
- WATER YARD HYDRANT
- STORM DRAINAGE
- WASTE WATER
- WATER

LEGEND – SURVEY (NON SURVEYED UTILITIES)

- GAS LINE
- ELECTRICAL SERVICE
- ELECTRICAL SERVICE OVERHEAD
- WASTE WATER
- STORM DRAINAGE
- WATER
- TELEPHONE LINE
- TELEPHONE LINE OVERHEAD
- FIBER OPTIC TELE. LINE
- TELEVISION/CABLE TV LINE
- TELEVISION/CABLE TV LINE OVERHEAD
- TRAFFIC SIGNAL

LEGEND – SURVEY (MISC.)

- BENCH MARK
- BORING
- FENCE – R.O.W. OR WIRE
- FENCE – CHAIN LINK
- FENCE – PICKET, PRIVACY OR SPLIT RAIL
- FLOWLINE
- GUARDRAIL
- HEAD STONE
- MAILBOX
- RAILROAD CROSSING SIGNAL
- RAILROAD SWITCH
- RAILROAD TRACKS
- RETAINING WALL
- SIGN
- WATER EDGE

LEGEND – SURVEY (LANDSCAPE)

- BUSH – CONIFEROUS
- BUSH – DECIDUOUS
- BUSH – CONIFEROUS BUSH ROW
- BUSH – DECIDUOUS BUSH ROW
- STUMP – < 12"
- STUMP – 12" TO 23"
- STUMP – 24" TO 35"
- STUMP – > 36"
- TREE – CONIFEROUS MASS PERIMETER
- TREE – CONIFEROUS < 12"
- TREE – CONIFEROUS 12" TO 23"
- TREE – CONIFEROUS 24" TO 35"
- TREE – CONIFEROUS > 36"
- TREE – CONIFEROUS TREE LINE
- TREE – DECIDUOUS MASS PERIMETER
- TREE – DECIDUOUS < 12"
- TREE – DECIDUOUS 12" TO 23"
- TREE – DECIDUOUS 24" TO 36"
- TREE – DECIDUOUS > 36"
- TREE – DECIDUOUS TREE LINE
- TREE REMOVAL

LEGEND – EROSION & SEDIMENT CONTROL

- SYNTHETIC FABRIC SILT FENCE
- SEEDING, TYPE 'D'
- SEEDING, TYPE 'F'
- SODDING
- EROSION CONTROL MAT – STRAW
- EROSION CONTROL MAT – SYNTHETIC
- EROSION CONTROL MAT – BLEND

LEGEND – RIGHT-OF-WAY

- LOT CORNER
- RIGHT-OF-WAY
- EXISTING CONTROL ACCESS
- EXISTING PERMANENT EASEMENT
- EXISTING ROW
- PROPERTY LINE
- PROPOSED PERMANENT EASEMENT
- PROPOSED ROW
- PROPOSED TEMPORARY EASEMENT
- EXISTING PERMANENT EASEMENT
- PERMANENT EASEMENT
- R.O.W. TAKING
- TEMPORARY EASEMENT
- ℄ ROW OR SECTION LINE

LEGEND – PROPOSED (MISC.)

- PROPOSED LOC – CUT
- PROPOSED LOC – FILL
- PROPOSED RETAINING WALL
- ASPHALT SURFACE
- CONCRETE BIKEWAY
- CONCRETE DRIVEWAY
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- CRUSHED ROCK SURFACING
- EARTH
- RIP RAP
- TACK ON MEDIAN

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	3
Date: 4/10/2007	Drawn: JDK
Horz. Scale	Checked: SKS
	Approved: RLR

GENERAL NOTES:

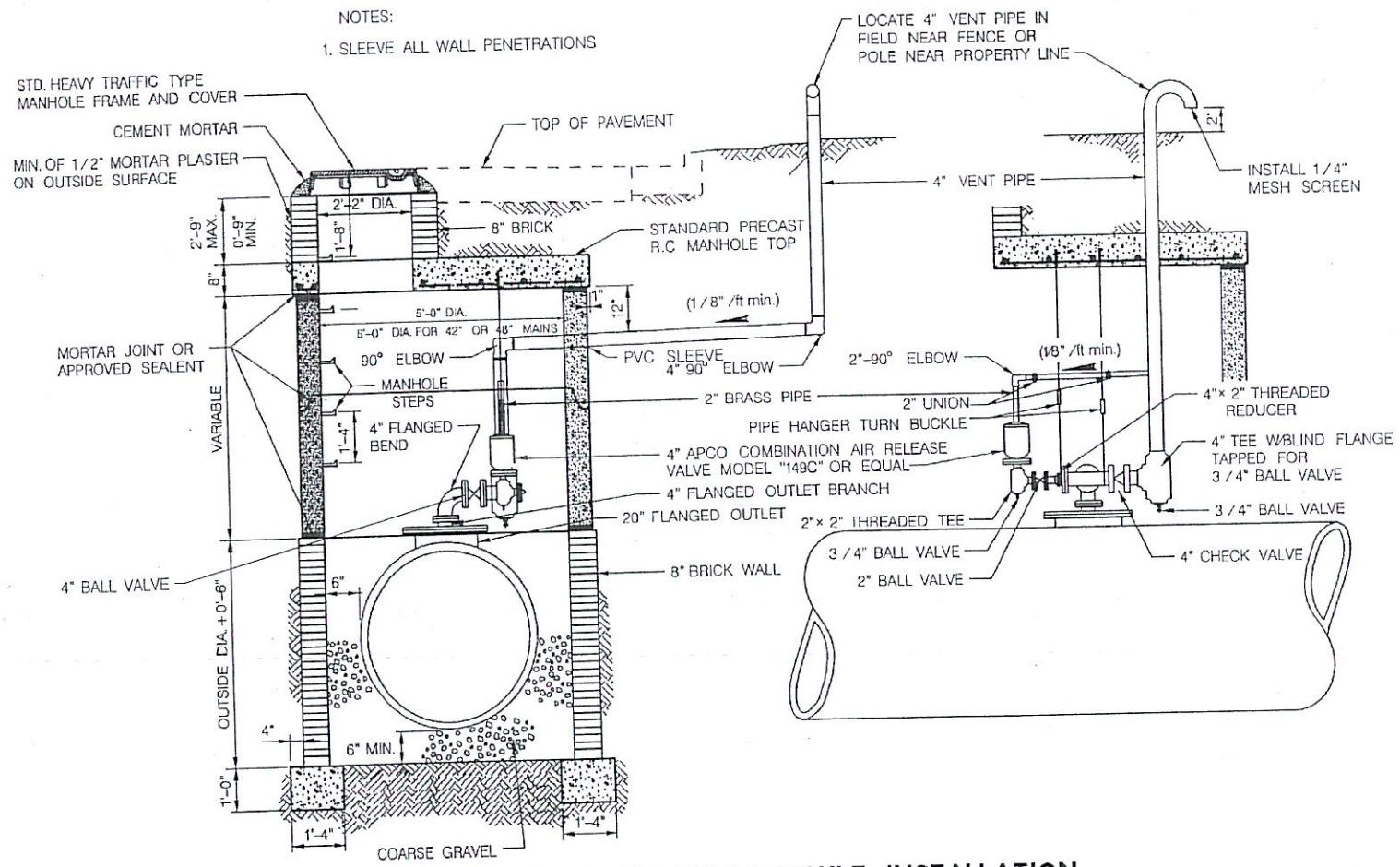
1. ALL SURVEY WAS DONE BY ELECTRONIC INSTRUMENT. ALL ELEVATIONS SHOWN ARE U.S.C.&G.S.
2. CONTRACTOR SHALL LOCATE ALL WATER AND SEWER SERVICES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MINIMIZE DISRUPTION TO PARKING AREAS AND PRIVATE PROPERTY WHERE RECONNECTION OF SERVICES ARE NECESSARY. CONTRACTOR SHALL LOCATE SANITARY SERVICE CONNECTIONS BY TRACING FROM HOUSE VENTS AS NECESSARY. LOCATIONS SHOWN ON THE DRAWINGS ARE FOR INFORMATION ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR FOR WATER AND WASTE WATER.
3. GEOMETRICS & DIMENSIONS ON THIS PROJECT ARE TO THE CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
4. TREES TO BE REMOVED ONLY UPON APPROVAL OF THE FIELD ENGINEER.
5. 2006 LINCOLN STANDARD PLANS SHALL BE USED WHERE APPLICABLE.
6. 6" P.C.C. PAVEMENT IS SHOWN FOR CARLOS STREET PAVEMENT REPLACEMENT. REMOVAL AND REPLACEMENT INCLUDES STREET BUT NOT EXISTING CONCRETE CURBS AND GUTTERS.
7. THE CONTRACTOR MAY CONSTRUCT 5" P.C.C. BASE WITH 2 1/2" A.C. SURFACE COURSE FOR NON-ARTERIAL, A.C. PAVEMENT, CL 1 (5" BASE) IN LIEU OF THE P.C.C. PAVEMENT.
8. INSTALL INSULATING FLANGES AT CONNECTIONS TO EXISTING PIPING AND AT ENDS OF CARRIER PIPE FOR CASED BORES.
9. COORDINATE WITH "PROJECT BY OTHERS" TO EXTEND 16" DIA. WATER EAST FROM 87th AND HOLDREGE STREETS.
10. ALL CLOSURE PIECES FOR 54" DIA. WATER MAIN ARE SUBSIDIARY. CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS IF NECESSARY FOR WATER MAIN TESTING. TEMPORARY CONNECTIONS ARE SUBSIDIARY.
11. STAGING AREAS AVAILABLE AT VINE STREET RESERVOIR AND CAPITOL CITY CHRISTIAN CHURCH. NO ROCK ALLOWED ON STAGING AREA SITES.
12. CONTRACTOR SHALL REPAIR DAMAGE TO CITY STREETS CAUSED BY HAULING OR OTHER CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST. PAYMENT WILL BE MADE ONLY WHERE CALLED FOR ON THE DRAWINGS OR WHERE REMOVAL IS DEEMED NECESSARY TO INSTALL THE NEW MAIN AND APPROVED BY THE CITY PRIOR TO REMOVAL.
13. BOTH ENDS OF ALL PIPING SECTIONS SHALL BE COVERED DURING SHIPMENT TO KEEP PIPING CLEAN. LIMITED WATER SUPPLY IS AVAILABLE FOR FLUSHING (6" SUPPLY), THEREFORE FLUSHING VELOCITIES WILL BE DIFFICULT TO OBTAIN.

PROFESSIONAL CIVIL ENGINEER
SCOTT K. SCHMOKER
E-8251
STATE OF NEBRASKA

PROJ: 052241 – Hastings Water Main cfg
FEN: ...\Resources\Pen\BW_PENTABLE.tbl
USER: jknutson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279D101.dgn

NOTES:

1. SLEEVE ALL WALL PENETRATIONS



AUTOMATIC AIR RELIEF VAULT INSTALLATION FOR 30" OR LARGER PIPE

NOTES:

SHUT OFF VALVES SHALL BE CARBON STEEL CONBRACO "APOLLO 88-100 SERIES", NELES-JAMESBURY "SERIES 5000, FIG. 5150-11-2200TT", OR POWELL "FIG A224T" BALL VALVES.

DRAIN VALVES SHALL BE BRASS OR BRONZE CONBRACO "APOLLO 70-100 SERIES" OR STOCKHAM "S-216".

CHECK VALVES SHALL BE APCO "SERIES 9000 CLASS 150 DOUBLE DOOR CHECK VALVE" OR EQUAL.

COMBINATION AIR RELEASE VALVES SHALL BE APCO MODEL "147C" OR EQUAL FOR 3 INCH VALVES AND APCO MODEL "149C" OR EQUAL FOR 4 INCH VALVES.

THE CAST IRON MANHOLE RING SHALL SET IN A BED OF MORTAR, AND BE CAREFULLY ADJUSTED TO PROPOSED GRADE.

MANHOLE RING AND COVER SHALL BE CITY OF LINCOLN HEAVY TRAFFIC TYPE. (SEE LSP 162).

MANHOLE STEPS SHALL BE CITY OF LINCOLN STANDARD MANHOLE STEPS. (SEE LSP 162).

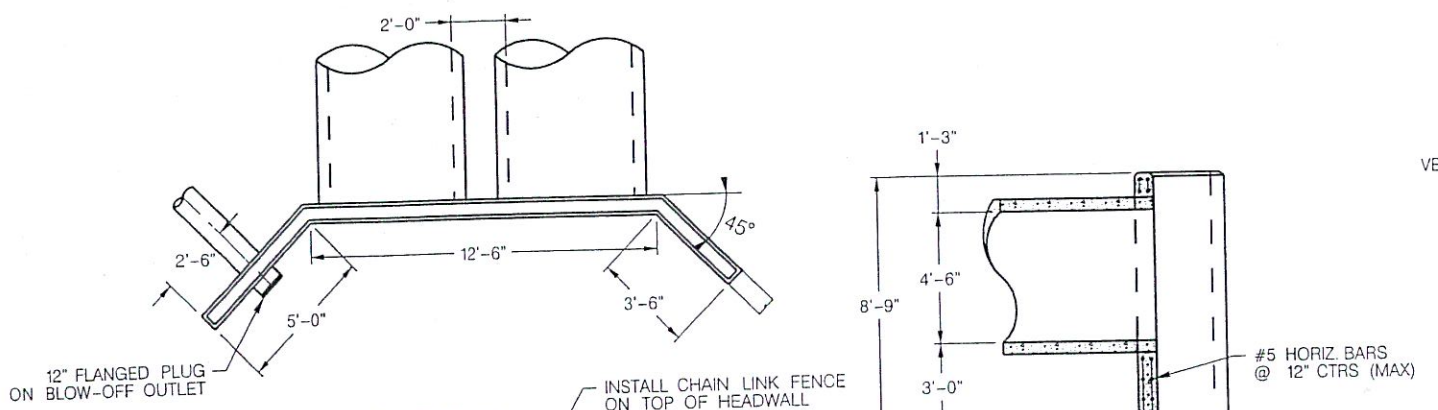
ALL REINFORCING STEEL SHALL BE EPOXY COATED.

ANY TAP LARGER THAN 1 INCH SHALL BE INSTALLED BY FACTORY.

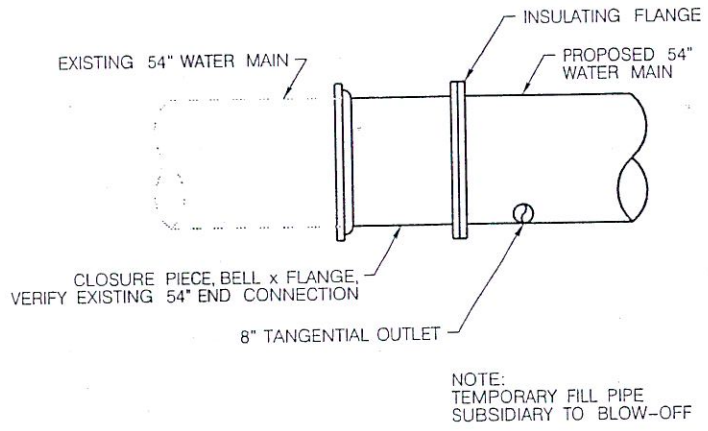
VENT PIPING AND INLET PIPING TO AIR VALVE SHALL BE STEEL OR IRON PIPE WITH COATING SIMILAR TO AS SPECIFIED FOR WATER MAIN.

SEE TEST STATION DETAIL FOR AIR VALVE VAULT CP REQUIREMENTS.

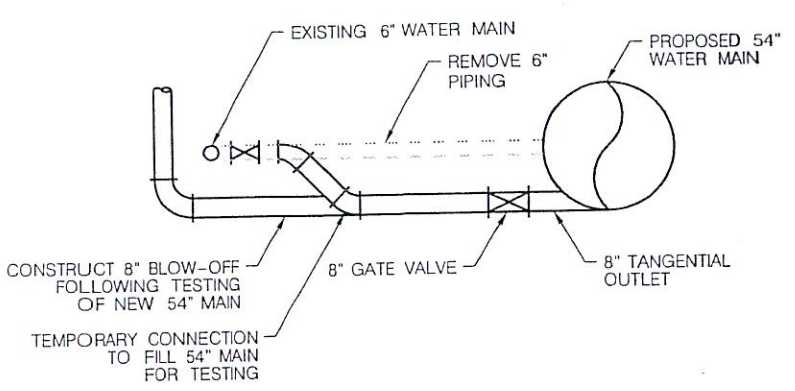
INCLUDE ONE 48# Mg ANODE, REFERENCE ELECTRODE, TEST STATION, AND TEST LEADS BONDED TO VENT PIPING SIMILAR TO AS REQUIRED FOR PIPELINE TEST STATIONS.



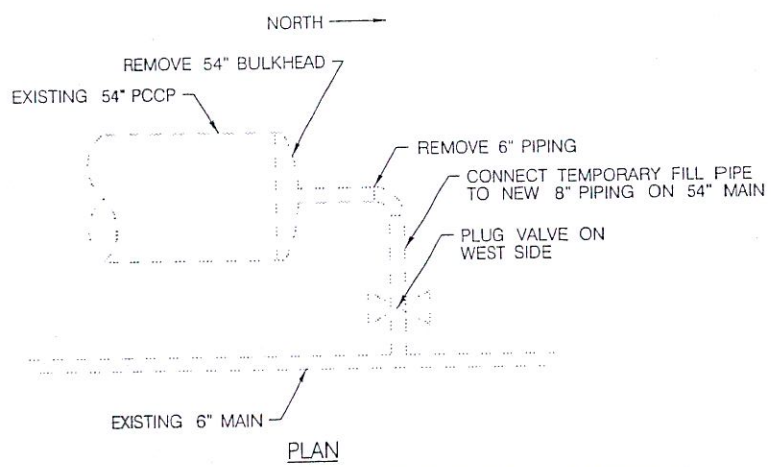
MODIFIED TYPE "B" CULVERT OUTLET HEADWALL STRUCTURE
STA. 1030+00.00



PROFILE



END VIEW



PLAN

CONNECTION TO 54" WATER MAIN AT CARLOS DR. & E. AVON LN.

PROFESSIONAL CIVIL ENGINEER
SCOTT K. SCHMOKER
E-8251
STATE OF NEBRASKA

PROJ: 0512241 – Holdrege Water Main cfg
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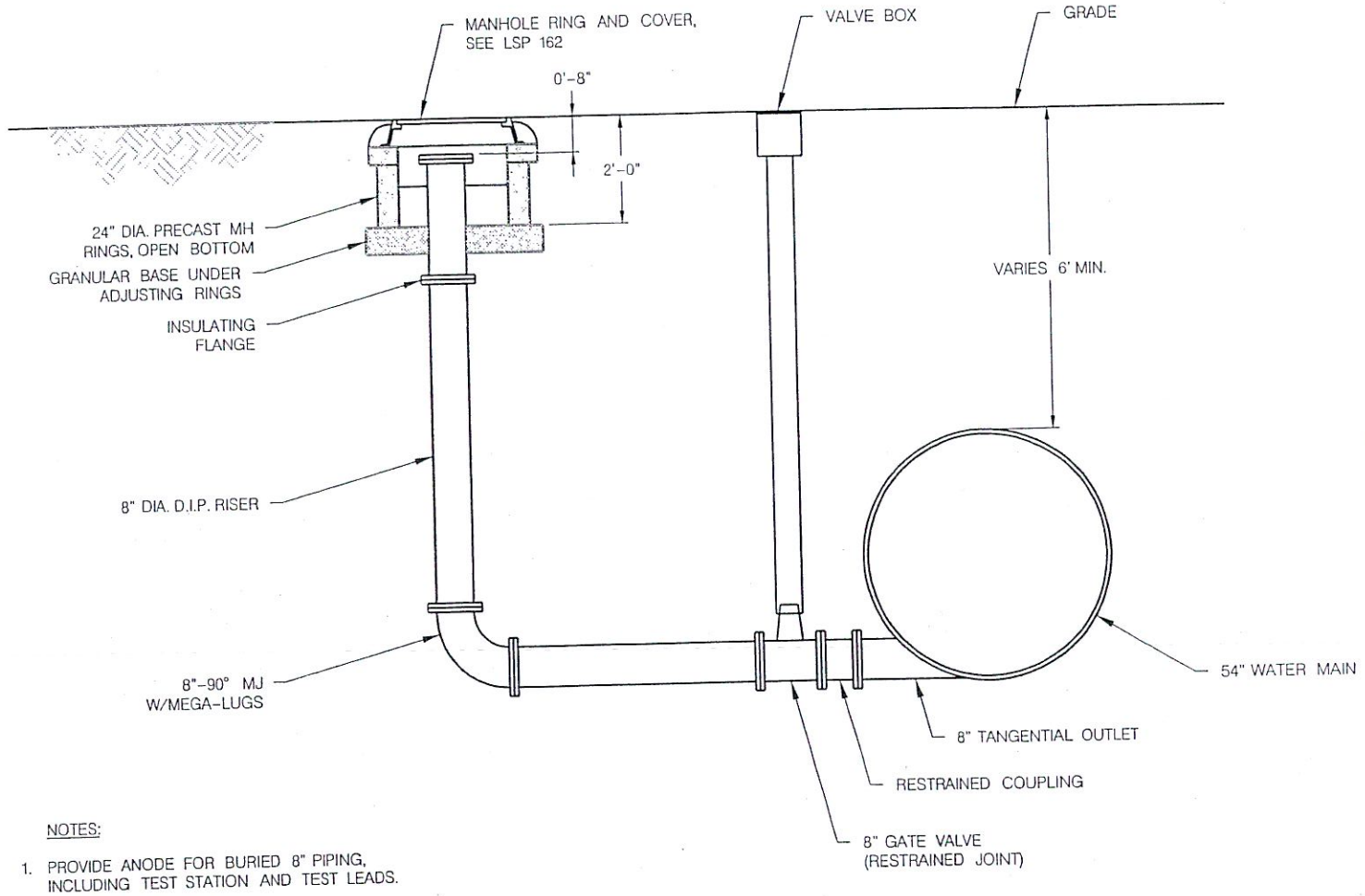
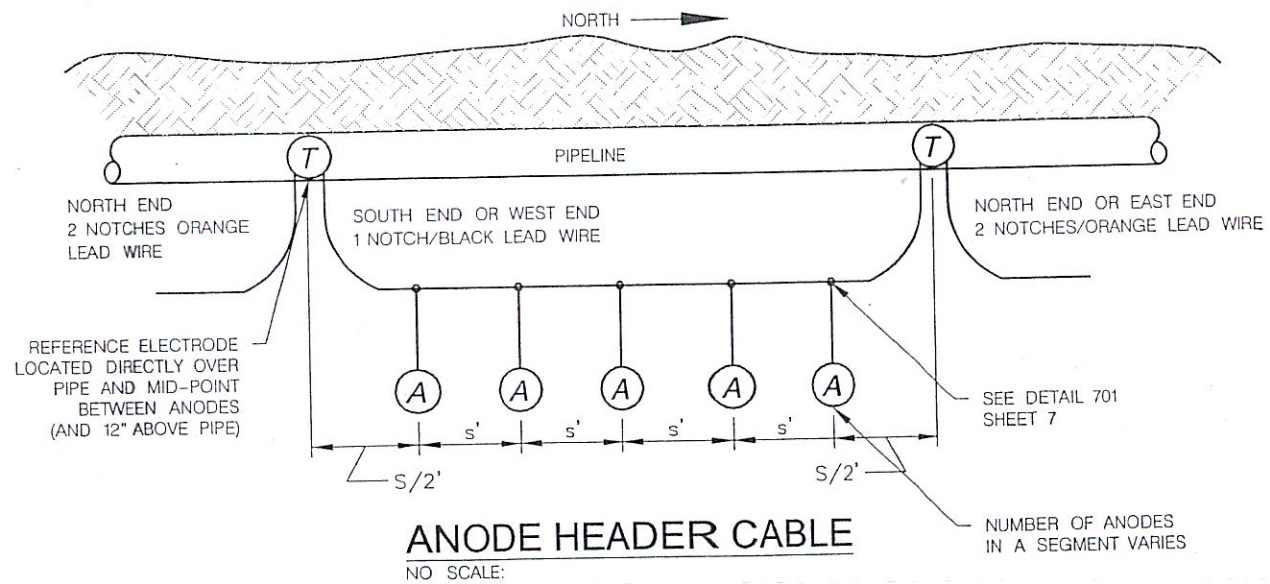


NOTES:

1. PROVIDE ANODE FOR BURIED 8" PIPING, INCLUDING TEST STATION AND TEST LEADS.
2. 8" VALVE AND VALVE BOX SHALL BE PURCHASED FROM CITY.

BLOW-OFF DETAIL

NO SCALE:



ANODE HEADER CABLE

NO SCALE:

NOTES:

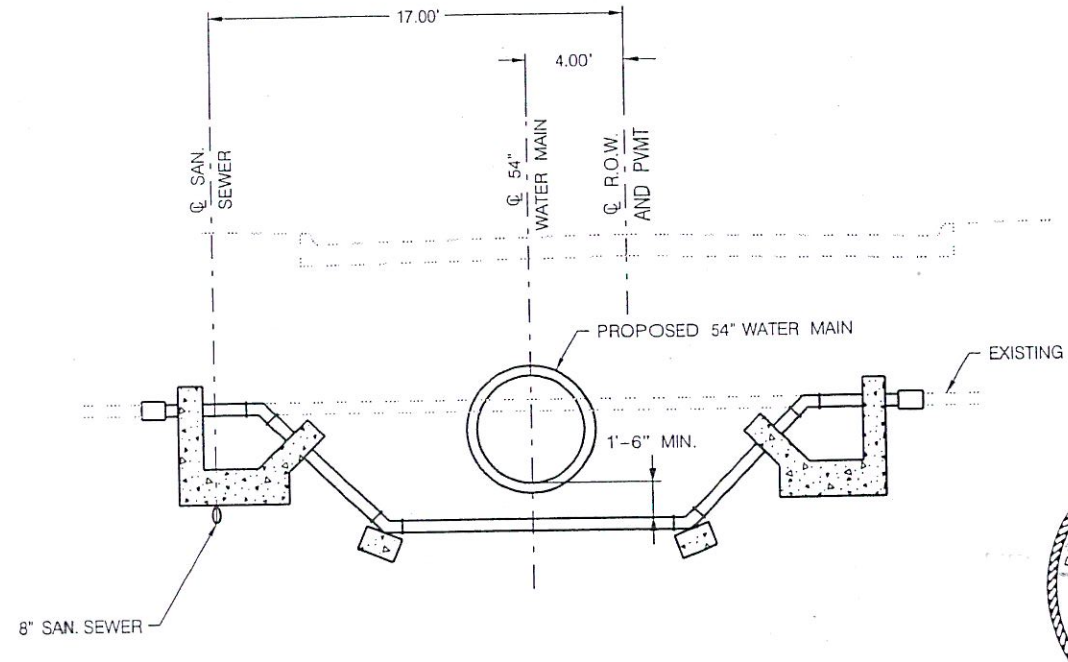
1. ANODES TO BE EQUALLY SPACED BETWEEN TEST STATIONS.
2. ANODE HEADER CABLE CAN BE PLACED IN BOTTOM CORNER OF PIPE DITCH ALONG HOLDREGE ST. ALIGNMENT.
3. PLACE HEADER CABLE OUTSIDE OF PAVED AREAS, INCLUDING ALONG CARLOS DR.
4. SEE ANODE PLACEMENT FOR PIPELINE ON SHEET 6.
5. TEST STATIONS REFERENCE ELECTRODES AND HEADER CABLE REQUIRED FOR PCCP PIPELINE MATERIAL. ANODES NOT REQUIRED FOR PCCP.
6. COMPLETE SYSTEM REQUIRED FOR D.I.P. AND STEEL PIPELINE MATERIAL, INCLUDING ANODES AND ANODE LEADS.

ANODE SEGMENT	T.S. NO. ▷	STARTING LOCATION	ENDING LOCATION	DISTANCE BETWEEN TEST STATIONS (ft)	ANODE SPACING	MAGNESIUM ANODE WEIGHT AND TYPE	NUMBER OF ANODES
	1 I.F. TEST STATION	FLANGE INS 1000+48 a RED WIRE b BLUE WIRE					
1	2	1000+50	1004+61	411	45.62	50 lb H-1	9
2	3	1004+61	1008+75	414	51.75	50 lb H-1	8
3	4	1008+75	1012+82	407	50.89	50 lb H-1	8
4	5	1012+82	1016+92	410	51.25	50 lb H-1	8
5	6	1016+92	1021+03	411	51.38	50 lb H-1	8
6	7	1021+03	1025+14	411	27.40	32 lb H-1	15
7	8	1025+14	1029+24	410	51.25	50 lb H-1	8
8	9	1029+24	1033+35	411	51.38	50 lb H-1	8
9	10	1033+35	1037+35	400	18.00	32 lb HI-POT	22
10	11	1037+35	1041+50	275	8.87	32 lb HI-POT	31
11	12	1041+50	1044+25	275	30.56	50 lb H-1	9
12	13	1044+25	1048+17	392	43.56	50 lb H-1	9
13	14	1052+14	1052+14	397	49.63	50 lb H-1	8
	15	1056+10	1056+50	436	48.44	50 lb H-1	9
	16	1056+50					
	17 I.F. TEST STATION	1056+50 a RED WIRE b BLUE WIRE					

NOTES:

1. SEE ▷ C.P. TEST STATION BUILD BOXES ON WATER MAIN PLAN AND PROFILE SHEETS.

ANODE SIZE/SPACING TABLE



TYPICAL WATER MAIN LOWERING DETAIL

STA. 1006+16.40

PROFESSIONAL CIVIL ENGINEER
SCOTT K. SCHMOKER
E-8251
STATE OF NEBRASKA

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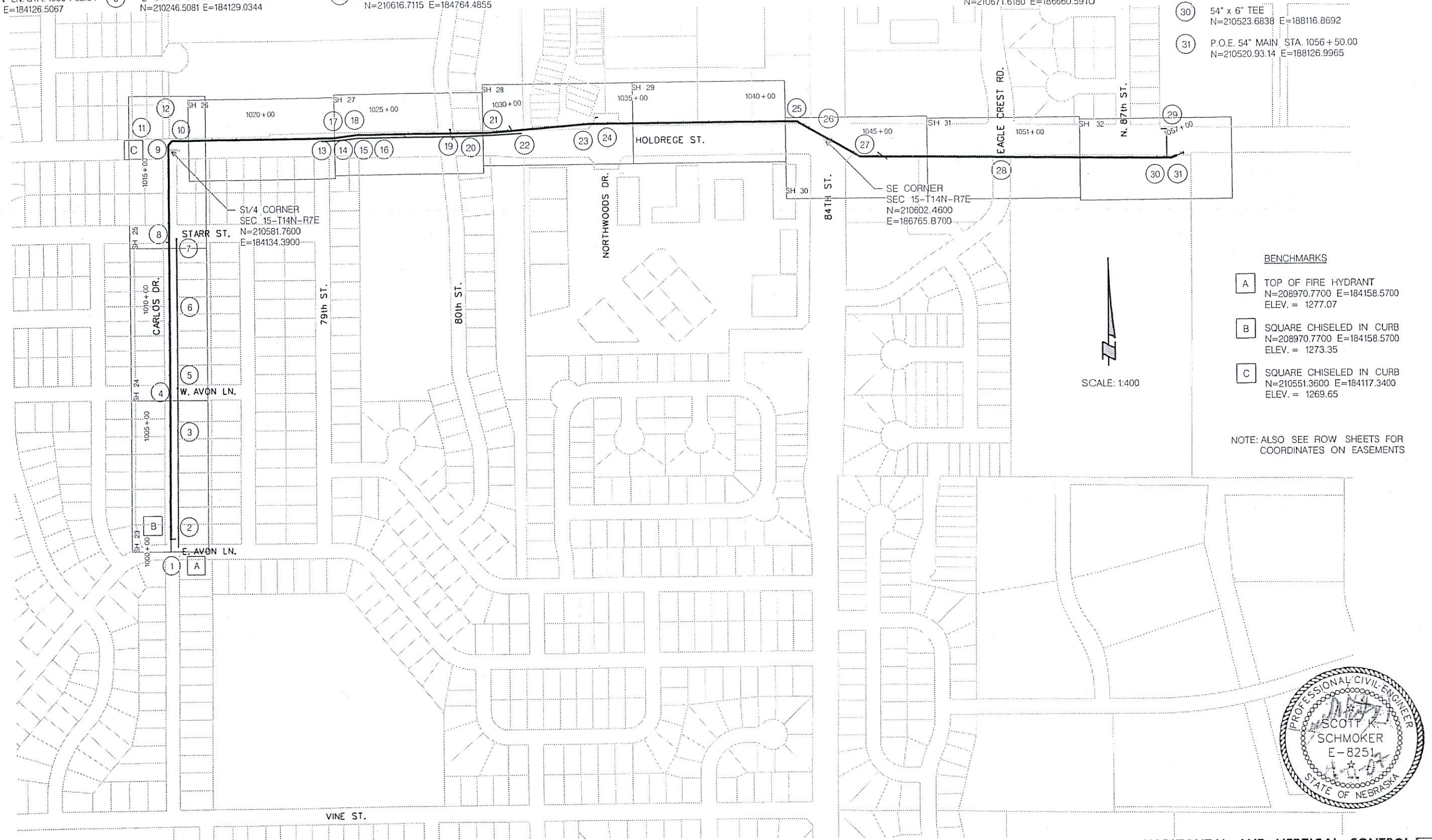
KIRKHAM MICHAEL | CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	9
Date: 4/10/2007	Drawn: JDK
Horz. Scale 1 : 1400	Checked: SKS
	Approved: RLR

CARLOS AND HOLDREGE

1. P.O.B. STA. 1000 + 46.79
℄ 54" WATER MAIN
N=209035.3748 E=184124.1391
2. P.O.B. WASTEWATER PIPE, M.H.
STA. 1000 + 96.05
WASTEWATER LINE STA. 40 + 80
N=209084.5125 E=184155.2003
3. WASTE WATER M.H.
STA. 1004 + 81.05
WASTEWATER LINE STA. 44 + 65
N=209469.5094 E=184156.7566
4. ℄ WEST AVON LN. STA. 1006 + 32.54
N=209621.1174 E=184126.5067
5. WASTE WATER M.H.
STA. 1006 + 49.05
WASTEWATER LINE STA. 46 + 33
N=209637.5080 E=184157.4357
6. WASTE WATER M.H.
STA. 1009 + 70.05
WASTEWATER LINE STA. 49 + 54
N=209958.5054 E=184158.7333
7. P.O.E. WASTE WATER PIPE, M.H.
STA. 1012 + 36.94
WASTEWATER LINE STA. 52 + 21
8. ℄ STARR ST. STA. 1012 + 57.93
N=210246.5081 E=184129.0344
9. ℄ HOLDREGE ST. STA. 1015 + 93.10
N=210581.6700 E=184130.3891
10. ℄ CARLOS DR. STA. 1016 + 13.77
N=210600.7057 E=184134.4128
11. 44.66° DEFLECTION 54" MAIN
STA. 1016 + 08.16
N=210596.7278 E=184130.4500
12. 44.66° DEFLECTION 54" MAIN
STA. 1016 + 29.50
N=210611.8460 E=184145.5106
13. ℄ 79th ST. STA. 1022 + 48.49
N=210616.7115 E=184764.4855
14. P.O.B. 16" MAIN STA. 1022 + 88.13
N=210606.0476 E=184804.2059
15. 4.76° DEFLECTION 16" MAIN
STA. 1023 + 27.52
N=210607.3933 E=184844.8393
16. 6.20° DEFLECTION 16" MAIN
STA. 1023 + 91.84
N=210614.8455 E=184908.7188
17. 6.20° DEFLECTION 54" MAIN
STA. 1023 + 00.00
N=210617.1164 E=184815.9945
18. 6.20° DEFLECTION 54" MAIN
STA. 1023 + 92.57
N=210627.8432 E=184907.9437
19. ℄ 80th ST. STA. 1027 + 51.72
N=210630.6627 E=185267.0842
20. 2.49° DEFLECTION 16" MAIN
STA. 1028 + 38.02
N=210618.3414 E=185353.4838
21. 4.31° DEFLECTION 54" MAIN
STA. 1029 + 18.68
N=210631.9750 E=185434.0383
22. P.O.E. 16" MAIN STA. 1030 + 57.76
N=210630.0444 E=185573.7532
23. 4.31° DEFLECTION 54" MAIN
STA. 1033 + 17.52
N=210665.1010 E=185831.4980
24. ℄ NORTHWOODS DR. STA. 1033 + 90.71
N=210665.6762 E=185904.6808
25. 30.02° DEFLECTION 54" MAIN
STA. 1041 + 46.64
N=210671.6180 E=186660.5910
26. ℄ 84th ST. STA. 1042 + 67.58
N=210611.9403 E=186765.7859
27. 29.08° DEFLECTION 54" MAIN
STA. 1044 + 31.14
N=210531.2380 E=186908.0410
28. ℄ EAGLE CREST RD. STA. 1049 + 86.91
N=210526.5389 E=187463.7994
29. 16" x 6" TEE STA. 1056 + 82.47
N=210634.5211 E=188116.8636
30. 54" x 6" TEE
N=210523.6838 E=188116.8692
31. P.O.E. 54" MAIN STA. 1056 + 50.00
N=210520.93.14 E=188126.9965



SCALE: 1:400

BENCHMARKS

A TOP OF FIRE HYDRANT
N=208970.7700 E=184158.5700
ELEV. = 1277.07

B SQUARE CHISELED IN CURB
N=208970.7700 E=184158.5700
ELEV. = 1273.35

C SQUARE CHISELED IN CURB
N=210551.3600 E=184117.3400
ELEV. = 1269.65

NOTE: ALSO SEE ROW SHEETS FOR COORDINATES ON EASEMENTS

PROFESSIONAL CIVIL ENGINEER
SCOTT K. SCHMOKER
E-8251
STATE OF NEBRASKA

HORIZONTAL AND VERTICAL CONTROL 117-C-

117-C-95

PROJ: 0512241 – Holdrege Water Main.cfg
PEN: ..\Resources\PenTbl_PENTABLE.tbl
USER: jknutson
DATE: 4/10/2007
DGN: ..\Addendum 1\702279TC01.dgn

KIRKHAM MICHAEL

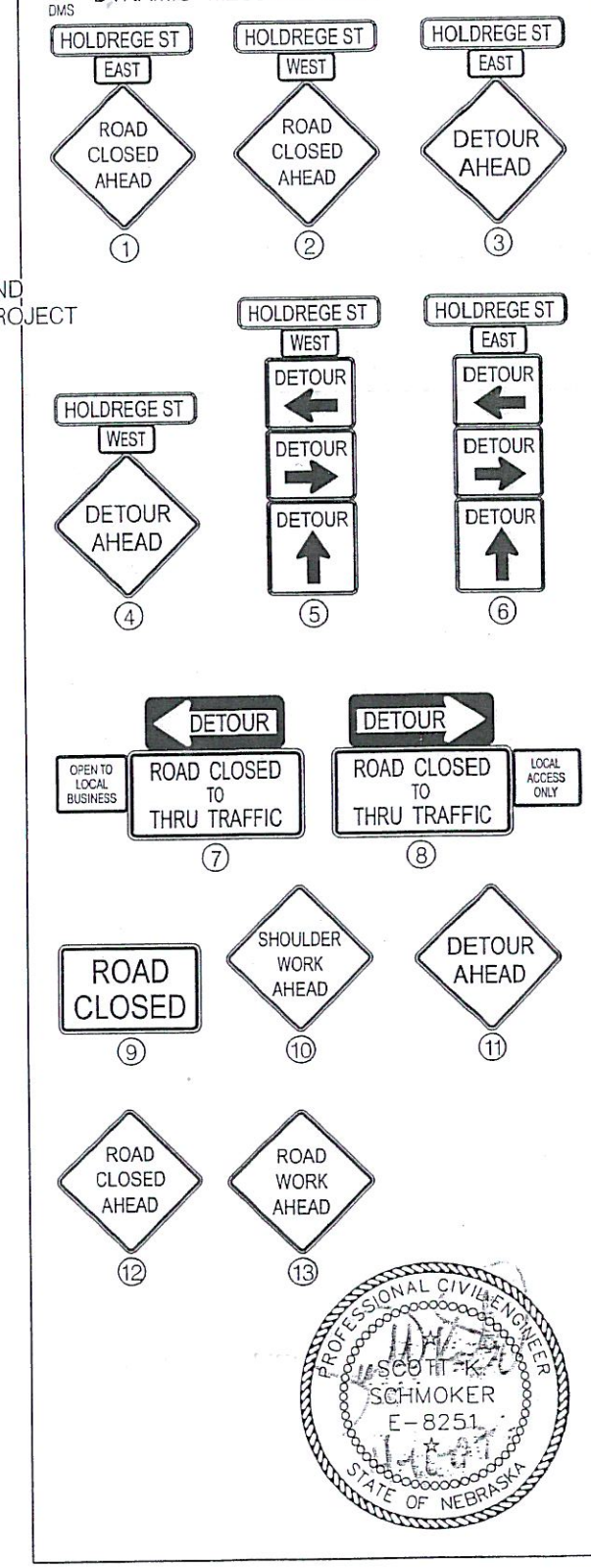
CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	10
Date: 4/10/2007	Drawn: JDK
Horz. Scale 1 : 1,600	Checked: SKS
	Approved: RLH

LEGEND

I TYPE III BARRICADE

DMS DYNAMIC MESSAGE SIGN



PROFESSIONAL CIVIL ENGINEER
SCOTT K. SCHMOKER
E-8251
STATE OF NEBRASKA

DETOUR ROUTE 117-C-9

117-C

PROJ: 0512241 - Holdrege Water Main.dg
PEN: ...\Resources\Pen\GW_PENTABLE.tbl
USER: jbrudson
DATE: 4/10/2007
DGN: \Addendum 1\702279TC02.dgn

NOTES:

PHASE 1 BORING UNDER 84th AND HOLDREGE STREET INTERSECTION - BORE AT 84th AND HOLDREGE STREET SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS OF START OF CONSTRUCTION ON PHASE 1.

PHASE 2A CARLOS DRIVE SANITARY SEWER - CARLOS DRIVE SANITARY SEWER SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS OF START OF CONSTRUCTION ON PHASE 2A.

PHASE 2B CARLOS DRIVE WATER MAIN AND PAVING - OPEN TRENCH LIMITED TO 600 FEET MAXIMUM. CONTRACTOR SHALL BACKFILL WITHIN 600 FEET OF EXCAVATION FOR PIPE.

PHASE 2B CARLOS DR. WATER MAIN AND PAVING SHALL START FOLLOWING COMPLETION OF PHASE 2A AND SHALL BE COMPLETED WITHIN 70 CALENDAR DAYS OF START OF CONSTRUCTION ON PHASE 2B.

ONLY ONE STREET INTERSECTING CARLOS DRIVE MAY BE CLOSED AT ANY ONE TIME. CONTRACTOR MAY CLOSE MORE THAN ONE BLOCK AT A TIME ON CARLOS DRIVE BUT ONLY ONE CROSS STREET MAY BE CLOSED AT A TIME.

KIRKHAM MICHAEL

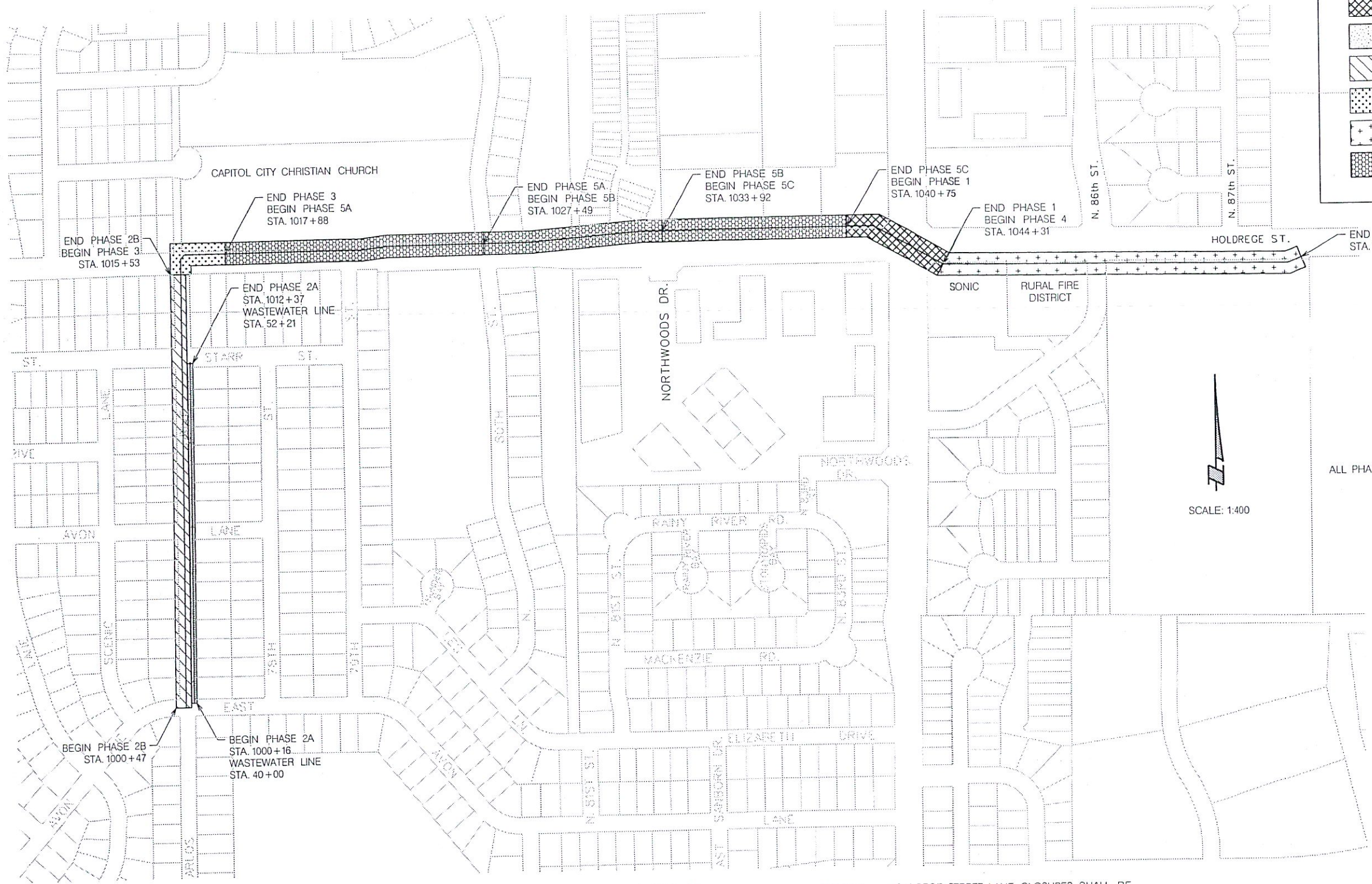
CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	11
Date: 4/10/2007	Drawn: JDK
Horz. Scale 1 : 1400	Checked: SKS
	Approved: RLR

LEGEND

PROJECT WORK AREA

- PHASE 1
- PHASE 2A
- PHASE 2B
- PHASE 3
- PHASE 4
- PHASE 5



SCALE: 1:400

ALL PHASES SIGNING AND BARRICADING IN WORK ZONE SHALL CONFORM TO LSP 99. AT LEAST ONE ACCESS SHALL BE MAINTAINED TO CAPITOL CITY CHRISTIAN CHURCH AND BUSINESSES (SONIC AND RURAL FIRE DISTRICT) AT ALL TIMES. ONLY ONE OF THE TWO ACCESS DRIVES INTO THE CAPITOL CITY CHURCH PROPERTY MAY BE CLOSED AT ANY ONE TIME.

PHASES 1, 2A AND 2B SHALL BE COMPLETED BY NOVEMBER 15th, 2007.

PHASES 3, 4 AND 5 SHALL BE COMPLETED BY JUNE 15th, 2008.

INCENTIVES AND LIQUIDATED DAMAGES APPLY TO EACH FULL PHASE (1-5) AND ALSO PHASE 2A.

LIQUIDATED DAMAGES APPLY TO PHASED COMPLETION DATE (NOVEMBER 15th, 2007) AND THE FINAL COMPLETION DATE (JUNE 15th, 2008).

PHASE 3 SIGNING AND BARRICADING FOR OPEN CUT ACROSS HOLDREGE STREET AT CARLOS DRIVE SHALL FOLLOW SPECIAL TRAFFIC CONTROL PLAN.

CROSSING HOLDREGE ST. AT CARLOS DR. SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS OF COMMENCEMENT OF PHASE 3. PHASE 3 MAY BE COMPLETED AT ANY POINT BEFORE THE END OF PROJECT CONSTRUCTION BUT SHALL COMMENCE AFTER PHASE 2B.

PHASE 4 HOLDREGE STREET LANE CLOSURES SHALL BE LIMITED TO A MAXIMUM OF 800 FEET. ONE LANE OF TRAFFIC (11' MIN.) SHALL BE MAINTAINED IN EACH DIRECTION AT ALL TIMES.

HOLDREGE ST. EAST OF 84TH ST. SHALL BE COMPLETED WITHIN 28 CALENDAR DAYS OF START OF CONSTRUCTION ON PHASE 4. WORK ON THIS PHASE MAY COMMENCE ANY TIME AFTER PHASE 1 PROVIDED SUFFICIENT RESOURCES ARE DEDICATED TO PHASE 2 AND 3 IF WORK IS OCCURING SIMULTANEOUSLY.

PHASE 5 HOLDREGE STREET LANE CLOSURES SHALL BE LIMITED TO A MAXIMUM OF 800 FEET. ONE LANE OF TRAFFIC (11' MIN.) SHALL BE MAINTAINED IN EACH DIRECTION AT ALL TIMES.

HOLDREGE ST. WEST OF 84th ST. SHALL BE COMPLETED WITHIN 42 CALENDAR DAYS OF START OF CONSTRUCTION ON PHASE 5.

PHASE 5B TWO-WAY TRAFFIC SHALL BE PROVIDED SOUTH OF MEDIAN ON HOLDREGE STREET WITH CROSS-OVERS AT 80th STREET AND NORTHWOODS DRIVE.

PROFESSIONAL CIVIL ENGINEER
SCOTT K. SCHMOKER
E-8251
4.10.07
STATE OF NEBRASKA

CONSTRUCTION PHASING 117-C-

117-C-

PROJ: 0512241 - Holdrege Water Main.cdg
PEN: ...\Resources\Pen\BW_PENTABLE.tbl
USER: jhouston
DATE: 4/10/2007
DGN: ...\Addendum 1\702279P203.DGN

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	15
Date: 4/10/2007	Drawn: JCK
Horz. Scale 1" = 40'	Checked: SKS
	Approved: RLR

1023+00 1024+00 1025+00 1026+00 1027+00 1028+00 1029+00

REM. PAVEMENT AND SIDEWALK *1.0100*

STATION TO STATION	SIDE	CY
1026+92 – 1028+91	LT. & RT.	42.9

REM. WATER MAIN *23.0880 – 23.0955*

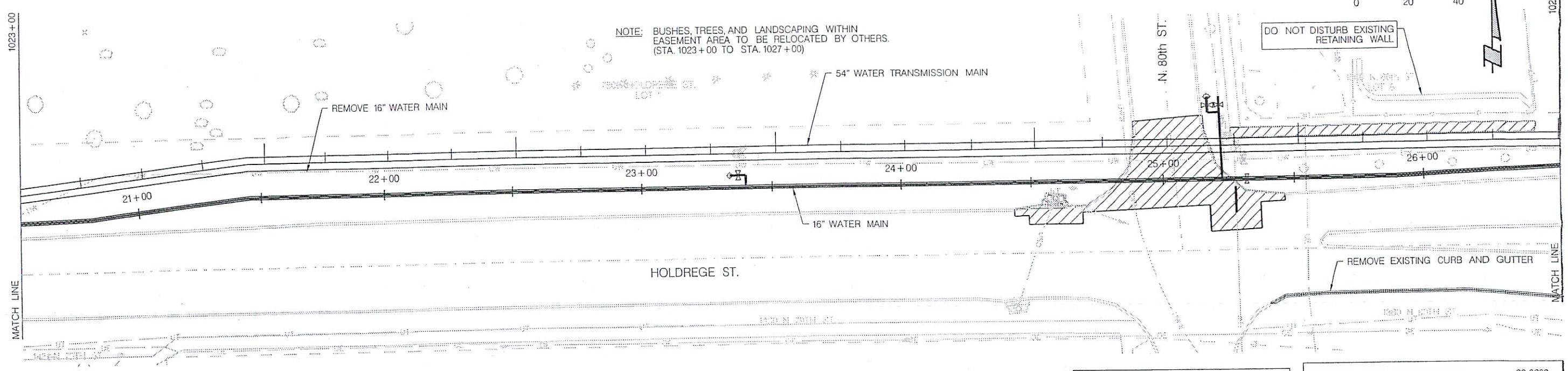
NO.	STATION TO STATION	SIDE	SIZE	LF
1	1022+88 – 1029+00	LT. & RT.	16"	612
1	1027+72 – 1027+72	LT. & RT.	6"	25
1	1027+77 – 1027+77	RT.	6"	10

TYPE 'C' SAWING *1.0230*

STATION TO STATION	SIDE	LF
1027+73 – 1027+74	LT.	4
1028+91 – 1028+91	LT.	4

TYPE 'B' SAWING *1.0220*

STATION TO STATION	SIDE	LF
1027+37 – 1027+64	LT.	27
1026+91 – 1027+95	RT.	135



REM. INLET (CMPL.) *21.1710*

STATION	OFFSET	EA
1027+07	RT.	1

REM. & REPL. COMB. C&G *99.0600 – 99.0603*

STATION TO STATION	SIDE	SIZE	LF
1027+91 – 1029+00	RT.	12"	111

1029+00 1030+00 1031+00 1032+00 1033+00 1034+00 1035+00

REM. PAVEMENT AND SIDEWALK *1.0100*

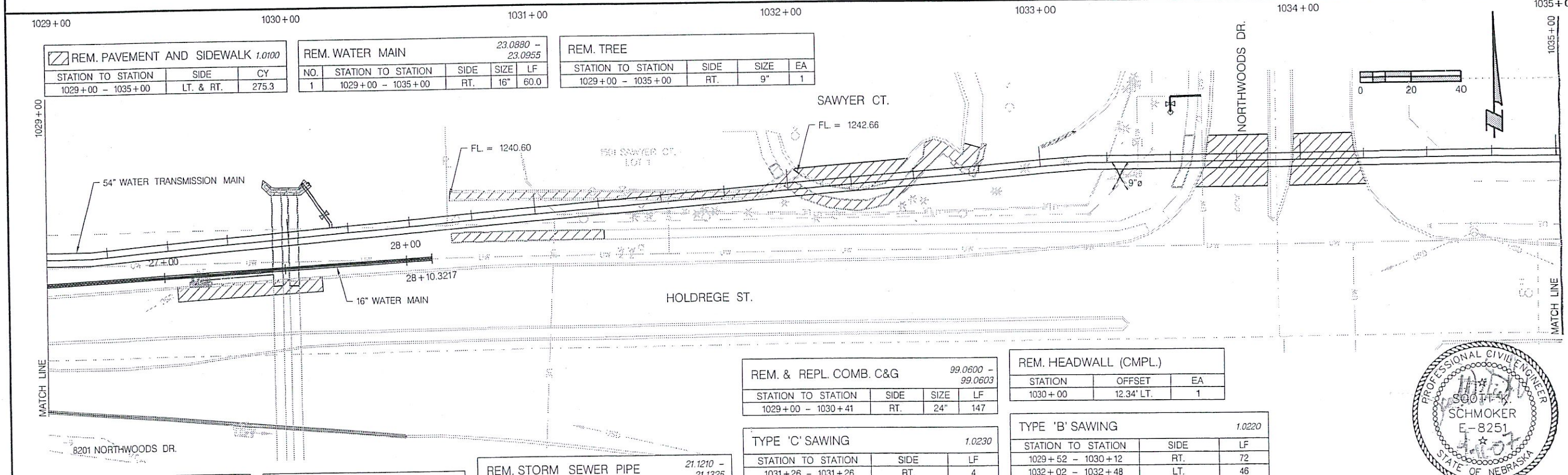
STATION TO STATION	SIDE	CY
1029+00 – 1035+00	LT. & RT.	275.3

REM. WATER MAIN *23.0880 – 23.0955*

NO.	STATION TO STATION	SIDE	SIZE	LF
1	1029+00 – 1035+00	RT.	16"	60.0

REM. TREE

STATION TO STATION	SIDE	SIZE	EA
1029+00 – 1035+00	RT.	9"	1



REM. & REPL. COMB. C&G *99.0600 – 99.0603*

STATION TO STATION	SIDE	SIZE	LF
1029+00 – 1030+41	RT.	24"	147

REM. HEADWALL (CMPL.)

STATION	OFFSET	EA
1030+00	12.34' LT.	1

TYPE 'C' SAWING *1.0230*

STATION TO STATION	SIDE	LF
1031+26 – 1031+26	RT.	4
1031+93 – 1031+97	LT.	4
1032+70 – 1032+76	LT.	7
1033+56 – 1033+59	LT.	4
1033+50 – 1033+54	RT.	4

TYPE 'B' SAWING *1.0220*

STATION TO STATION	SIDE	LF
1029+52 – 1030+12	RT.	72
1032+02 – 1032+48	LT.	46
1033+65 – 1033+88	LT.	23
1033+59 – 1033+87	RT.	28
1033+97 – 1034+21	LT.	23
1033+95 – 1034+26	RT.	30

REM. INLET (CMPL.) *21.1710*

STATION	OFFSET	EA
1029+63	RT.	1
1029+74	RT.	1

REM. OF STRUCTURE *1.0104*

STATION	SIDE	SF
1032+71	LT.	100
1033+08	LT.	48

REM. STORM SEWER PIPE *21.1210 – 21.1325*

STATION TO STATION	OFFSET	SIZE	LF
1029+95	20'R–18'L	54"	38
1030+03	20'R–18'L	54"	38
1029+63 – 1029+91	14' RT.	15"	28

PROFESSIONAL CIVIL ENGINEER SCOTT K. SCHMOKER E-8251 STATE OF NEBRASKA

8260 NORTHWOODS DR.

REMOVAL 117-C-9

117-C-

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	20

Date: 4/10/2007 Drawn: JDK
Horz. Scale 1 : 1 40 Checked: SKS
Approved: RLR

PROJ: 0512241 – Holdrege Water Main.ctg
PEN: ...\Resources\Pen\BW_PENTABLE.tbl
USER: jmulson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279PP03.DGN

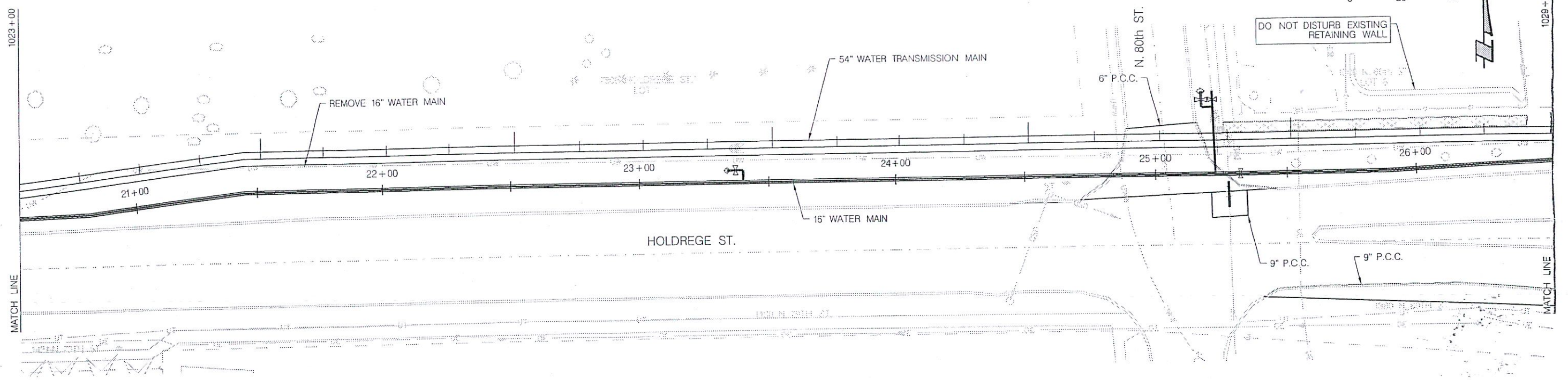
1023+00 1024+00 1025+00 1026+00 1027+00 1028+00 1029+00

6" P.C.C. PAVEMENT w/ INTEGRAL CURB		3.0090
STATION TO STATION	SIDE	SY
1027+19 – 1027+95	LT. & RT.	115

9" P.C.C. PAVEMENT		3.0020
STATION TO STATION	SIDE	SY
1026+92 – 1027+95	RT.	62
1027+88 – 1029+00	RT.	75

4" CONC. SIDEWALK		7.0020
STATION TO STATION	SIDE	SF
1027+94 – 1028+91	LT.	453

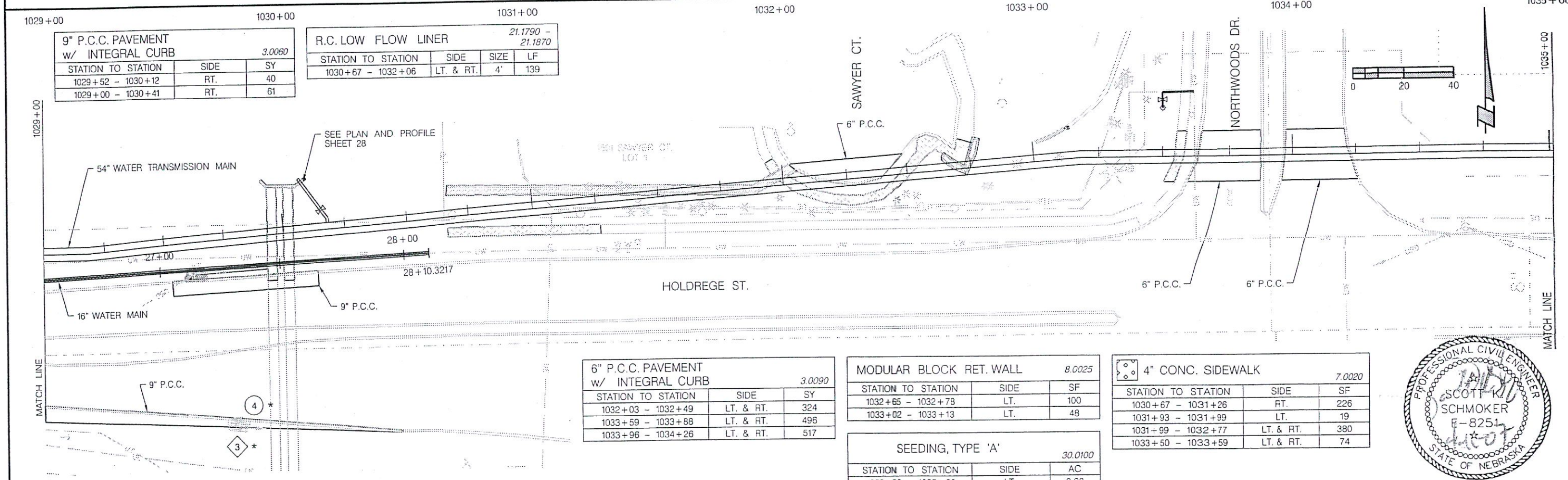
SEEDING, TYPE 'A'		30.0100
STATION TO STATION	SIDE	AC
1023+00 – 1029+00	LT.	0.69



1029+00 1030+00 1031+00 1032+00 1033+00 1034+00 1035+00

9" P.C.C. PAVEMENT w/ INTEGRAL CURB		3.0060
STATION TO STATION	SIDE	SY
1029+52 – 1030+12	RT.	40
1029+00 – 1030+41	RT.	61

R.C. LOW FLOW LINER			21.1790 – 21.1870
STATION TO STATION	SIDE	SIZE	LF
1030+67 – 1032+06	LT. & RT.	4'	139



6" P.C.C. PAVEMENT w/ INTEGRAL CURB		3.0090
STATION TO STATION	SIDE	SY
1032+03 – 1032+49	LT. & RT.	324
1033+59 – 1033+88	LT. & RT.	496
1033+96 – 1034+26	LT. & RT.	517

MODULAR BLOCK RET. WALL		8.0025
STATION TO STATION	SIDE	SF
1032+65 – 1032+78	LT.	100
1033+02 – 1033+13	LT.	48

SEEDING, TYPE 'A'		30.0100
STATION TO STATION	SIDE	AC
1029+00 – 1035+00	LT.	0.66

4" CONC. SIDEWALK		7.0020
STATION TO STATION	SIDE	SF
1030+67 – 1031+26	RT.	226
1031+93 – 1031+99	LT.	19
1031+99 – 1032+77	LT. & RT.	380
1033+50 – 1033+59	LT. & RT.	74

PROFESSIONAL CIVIL ENGINEER
SCOTT K. SCHMOKER
E-8251
4/10/07
STATE OF NEBRASKA

* SEE SHEET 28 FOR BUILD BOXES

CONSTRUCTION 117-C-9

117-C-65

WATER MAIN PLAN AND PROFILE

STA. 1000+46± BREAK IN GRADE
BEGIN 54" WATER MAIN
STA. 1000+51
BLOW-OFF ASSY. CONNECT TO 6" PIPE TEMPORARILY TO FILL
54" MAIN
STA. 1001+05± SEWER SERVICE
24" CLEARANCE ABOVE 54" MAIN
STA. 1001+06± 3/4" WATER SERVICE
24" CLEARANCE ABOVE 54" MAIN
STA. 1001+30± SEWER SERVICE
STA. 1001+95 3/4" WATER SERVICE
24" CLEARANCE ABOVE 54" MAIN
STA. 1001+99± 3/4" WATER SERVICE
24" CLEARANCE ABOVE 54" MAIN
STA. 1002+62± 3/4" WATER SERVICE
24" CLEARANCE ABOVE 54" MAIN
STA. 1002+90
STA. 1003+53± 3/4" WATER SERVICE
24" CLEARANCE ABOVE 54" MAIN
STA. 1003+63± SEWER SERVICE
STA. 1004+00± 3/4" WATER SERVICE
24" CLEARANCE ABOVE 54" MAIN
STA. 1004+25 BREAK IN GRADE
STA. 1004+30± SEWER SERVICE
STA. 1004+94± SEWER SERVICE
STA. 1004+91± 3/4" WATER SERVICE
24" CLEARANCE ABOVE 54" MAIN
STA. 1005+49± 3/4" WATER SERVICE
24" CLEARANCE ABOVE 54" MAIN
STA. 1005+69± SEWER SERVICE
STA. 1006+00± BREAK IN GRADE

FL = 1262.60
S = 0.0029
PROP 54" WATER MAIN
EXIST 54" PCCP WATER MAIN
RESTRAINED JOINTS - D.I. & STEEL PIPE
RESTRAINED JOINTS - PCCP
FL = 1261.50
S = 0.0457
PROP 54" WATER MAIN
FL = 1253.50
EXISTING GROUND

○ LOOP WATER SERVICE 23.0690

STATION	OFFSET	EA
1001+06	℄	1
1001+69	℄	1
1001+99	℄	1
1002+62	℄	1
1003+53	℄	1
1004+00	℄	1
1004+91	℄	1
1005+49	℄	1

○ COPPER WATER SERVICE PIPE 23.0680 - 23.0715

NO.	STATION TO STATION	SIDE	SIZE	LF
1	1001+06	LT.&RT.	3/4"	25
2	1001+69	LT.&RT.	3/4"	25
3	1001+99	LT.&RT.	3/4"	25
4	1002+62	LT.&RT.	3/4"	25
5	1003+53	LT.&RT.	3/4"	25
6	1004+00	LT.&RT.	3/4"	25
7	1004+91	LT.&RT.	3/4"	25
8	1005+49	LT.&RT.	3/4"	25

⬠ WATER VALVE AND/OR HYDRANT 23.0100 - 23.0460

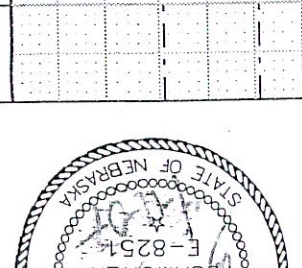
NO.	STATION	OFFSET	DESCRIPTION
1	1000+51	RT.	8" TANGENTIAL OUTLET AND BLOW-OFF ASSY., F.L. = 1262.60

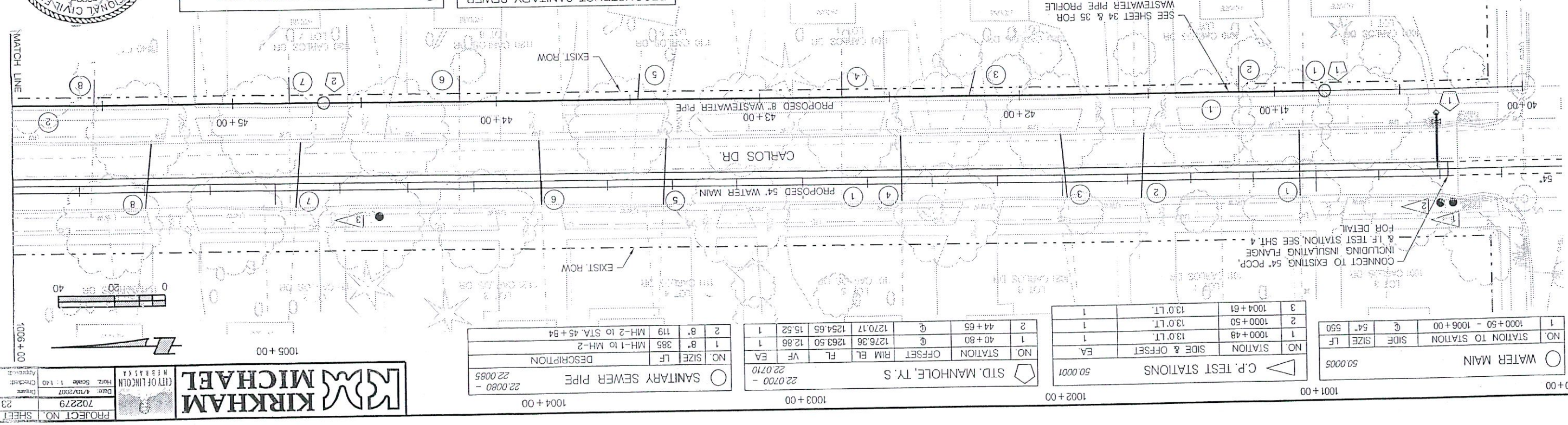
○ SANITARY SEWER SERVICE PIPE 22.0085

NO.	SIZE	LF	DESCRIPTION
1	4"	10	1000 CARLOS DR.
2	4"	10	1010 CARLOS DR.
3	4"	10	1020 CARLOS DR.
4	4"	10	1100 CARLOS DR.
5	4"	10	1110 CARLOS DR.
6	4"	10	1120 CARLOS DR.
7	4"	10	1130 CARLOS DR.
8	4"	10	1140 CARLOS DR.

RECONSTRUCT SANITARY SEWER SERVICE 22.0820

STATION	OFFSET	EA
40+89	RT.	1
41+14	RT.	1
42+19	RT.	1
42+68	RT.	1
43+47	RT.	1
44+14	RT.	1
44+78	RT.	1
45+53	RT.	1





○ WATER MAIN 50.0005

NO.	STATION TO STATION	SIDE	SIZE	LF
1	1000+50 - 1006+00	℄	54"	550

◁ C.P. TEST STATIONS 50.0001

NO.	STATION	SIDE & OFFSET	EA.
1	1000+48	13.0'LT.	1
2	1000+50	13.0'LT.	1
3	1004+61	13.0'LT.	1

⬠ STD. MANHOLE, TY. S 22.0710 - 22.0720

NO.	STATION	OFFSET		RIM EL	FL	VF	EA
1	40+80	℄	1276.36	1263.50	12.86		1
2	44+65	℄	1270.17	1254.65	15.52		1

○ SANITARY SEWER PIPE 22.0080 - 22.0085

NO.	SIZE	LF	DESCRIPTION
1	8"	385	MH-1 to MH-2
2	8"	119	MH-2 to STA. 45+84

PROJECT NO.	SHEET NO.
702279	23

Date: 4/13/2007	Drawn: JDK
Horiz. Scale: 1" = 40'	Checked: SKS
	Approved: RLR

CITY OF LINCOLN NEBRASKA

KIRKHAM MICHAEL

PROJ: 0512241 - Holdrege Water Main Cfg
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USER: jonuson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279Pw01.DGN

PROJ 0512241 – Holdrege Water Main c/g
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USER jknutson
DATE 4/10/2007
DGN ...\Addendum 1\702279PW02.DGN

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	24
Date: 4/10/2007	Drawn: JDK
Horz. Scale 1 : 1-40	Checked: SKS
	Approved: RLR

1006+00 1007+00 1008+00 1009+00 1010+00 1011+00 1012+00

STD. MANHOLE, TY. S 22.0700 – 22.0710

NO.	STATION	OFFSET	RIM EL	FL	VF	EA
3	46+33	℄	1263.02	1251.00	12.02	1
4	49+54	℄	1268.39	1256.00	12.39	1

WATER MAIN 50.0005

NO.	STATION TO STATION	SIDE	SIZE	LF
2	1006+00 – 1012+00	℄	54"	600
3	1006+16	LT.&RT.	6"	46

RECONSTRUCT SANITARY SEWER SERVICE 22.0820

STATION	OFFSET	EA
46+89	RT.	1
47+61	RT.	1
48+16	RT.	1
49+12	RT.	1
49+82	RT.	1
50+37	RT.	1
51+14	RT.	1
51+63	RT.	1

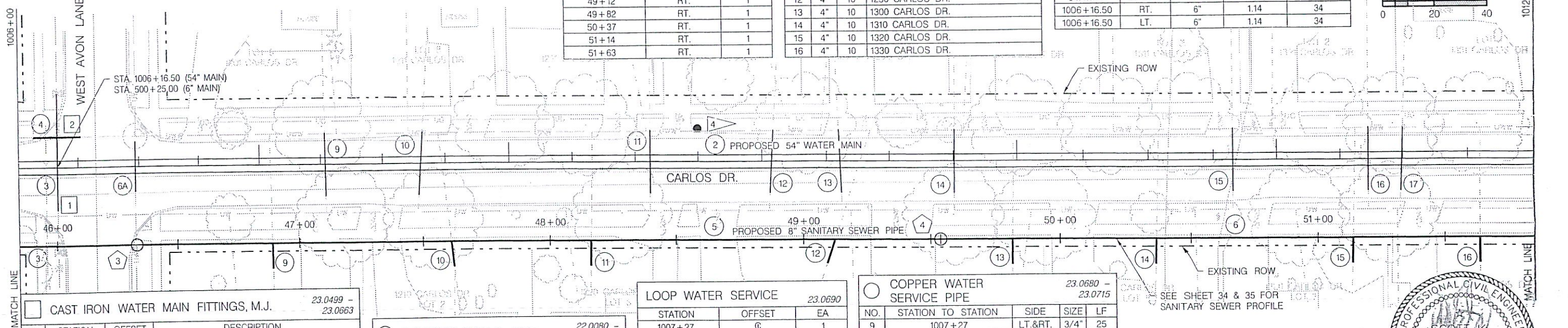
SANITARY SEWER SERVICE PIPE 22.0085

NO.	SIZE	LF	DESCRIPTION
9	4"	10	1200 CARLOS DR.
10	4"	10	1210 CARLOS DR.
11	4"	10	1220 CARLOS DR.
12	4"	10	1230 CARLOS DR.
13	4"	10	1300 CARLOS DR.
14	4"	10	1310 CARLOS DR.
15	4"	10	1320 CARLOS DR.
16	4"	10	1330 CARLOS DR.

CONC. & STEEL FOR THRUST BLOCK & ANCHORAGE (IN PLACE) 23.0665 – 23.0670

STATION	OFFSET	SIZE	CONC. (CY)	STEEL (LB)
1006+16.50	RT.	6"	1.14	34
1006+16.50	LT.	6"	1.14	34

0 20 40



CAST IRON WATER MAIN FITTINGS, M.J. 23.0499 – 23.0663

NO.	STATION	OFFSET	DESCRIPTION
1	1006+16.50	RT	2 – 6" 45° BENDS, M.J. 1 – 6" SOLID SLEEVE, M.J. 1 – 6" 45° R.C. ANCHORAGE 1 – 6" 45° R.C. THRUST BLOCK 6 – 6" RETAINER GLANDS
2	1006+16.50	LT	2 – 6" 45° BENDS, M.J. 1 – 6" 45° R.C. ANCHORAGE 1 – 6" 45° R.C. THRUST BLOCK 6 – 6" RETAINER GLANDS 1 – 6" SOLID SLEEVE

SANITARY SEWER PIPE 22.0080 – 22.0085

NO.	SIZE	LF	DESCRIPTION
3	8"	49	STA. 45+84 to MH-3
4	8"	20	1006+06 – 1006+26, 12' LT.
5	8"	301	MH-3 to MH-4
6	8"	230	MH-4 to STA. 51+84
6A	8"	20*	1006+49

* CENTER 20' LENGTH OF 8" C900 PVC PIPE ON 54" WATER MAIN, CONNECT WITH ELASTOMETRIC COUPLINGS (SUBSIDIARY)

LOOP WATER SERVICE 23.0690

STATION	OFFSET	EA
1007+27	℄	1
1007+65	℄	1
1008+56	℄	1
1009+04	℄	1
1009+30	℄	1
1009+75	℄	1
1010+83	℄	1
1011+36	℄	1
1011+50	℄	1

COPPER WATER SERVICE PIPE 23.0680 – 23.0715

NO.	STATION TO STATION	SIDE	SIZE	LF
9	1007+27	LT.&RT.	3/4"	25
10	1007+65	LT.&RT.	3/4"	25
11	1008+56	LT.&RT.	3/4"	25
12	1009+04	LT.&RT.	3/4"	25
13	1009+30	LT.&RT.	3/4"	25
14	1009+75	LT.&RT.	3/4"	25
15	1010+83	LT.&RT.	3/4"	25
16	1011+36	LT.&RT.	3/4"	25
17	1011+50	LT.&RT.	3/4"	25

C.P. TEST STATIONS 50.0001

NO.	STATION	SIDE & OFFSET	EA.
4	1008+75	13.0' LT.	1

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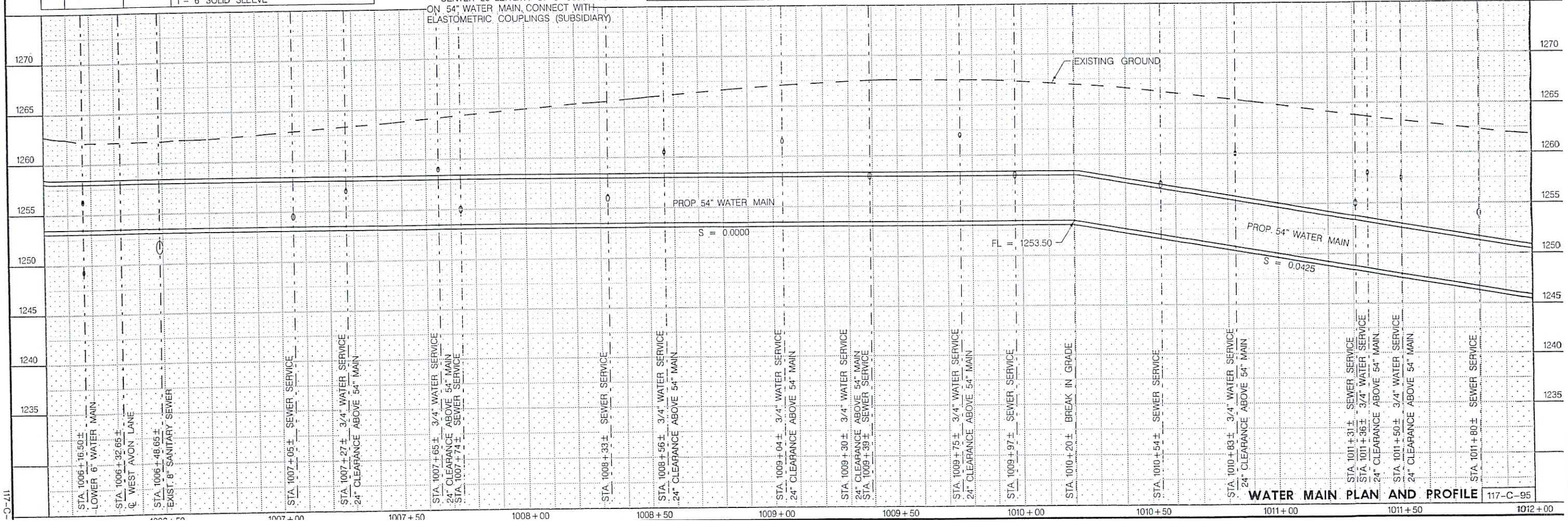


WATER MAIN PLAN AND PROFILE 117-C-95

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	25
Date: 4/10/2007	Drawn: JDK
Horz. Scale 1 : 1.40	Checked: SKS
	Approved: RLR

PROJ: 0512241 - Holdrege Water Main.cfg
PEN: ...\Resources\Pen\BW_PENTABLE.tbl
USER: jknutson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279PW03.DGN

WATER VALVE AND/OR HYDRANT — 23.0100 - 23.0460

NO.	STATION	OFFSET	DESCRIPTION
2	1012+25	LT.	8" TANGENTIAL OUTLET AND BLOW-OFF ASSY., F.L. = 1245.00

WATER MAIN — 50.0005

NO.	STATION TO STATION	SIDE	SIZE	LF
4	1012+00 - 1017+00	℄	54"	500

LOOP WATER SERVICE — 23.0690

STATION	OFFSET	EA
1016+38	℄	1

COPPER WATER SERVICE PIPE — 23.0680 - 23.0715

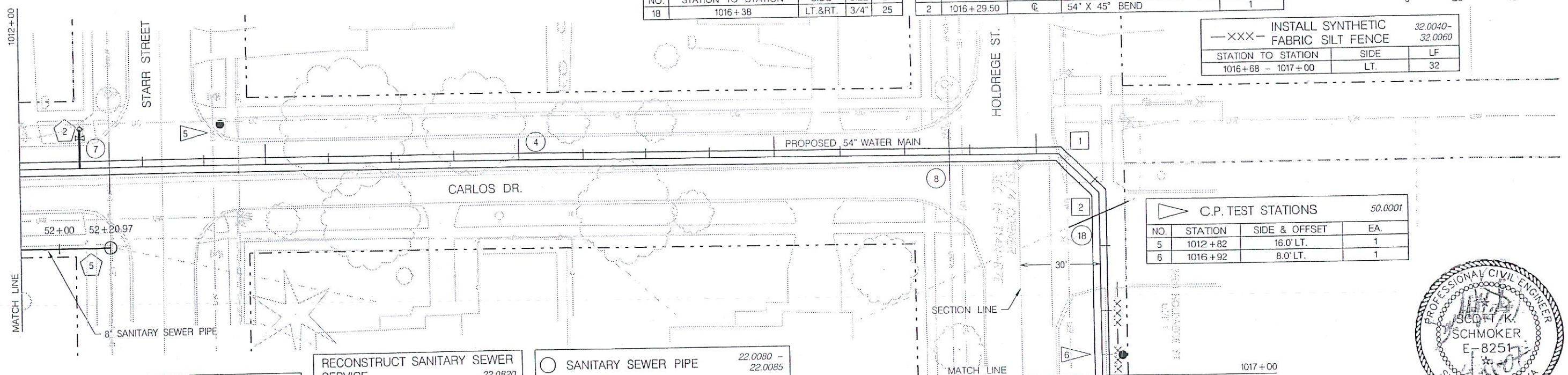
NO.	STATION TO STATION	SIDE	SIZE	LF
18	1016+38	LT.&RT.	3/4"	25

54" WATER MAIN FITTINGS — 23.0499 - 23.0663

NO.	STATION	OFFSET	DESCRIPTION	EA.
1	1016+08.20	℄	54" X 45° BEND	1
2	1016+29.50	℄	54" X 45° BEND	1

—XXX— INSTALL SYNTHETIC FABRIC SILT FENCE — 32.0040-32.0060

STATION TO STATION	SIDE	LF
1016+68 - 1017+00	LT.	32



C.P. TEST STATIONS — 50.0001

NO.	STATION	SIDE & OFFSET	EA.
5	1012+82	16.0' LT.	1
6	1016+92	8.0' LT.	1

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E-8251
STATE OF NEBRASKA

STD. MANHOLE, TY. S — 22.0700 - 22.0710

NO.	STATION	OFFSET	RIM EL	FL	VF	EA
5	52+21	℄	1262.29	1253.00	9.29	1

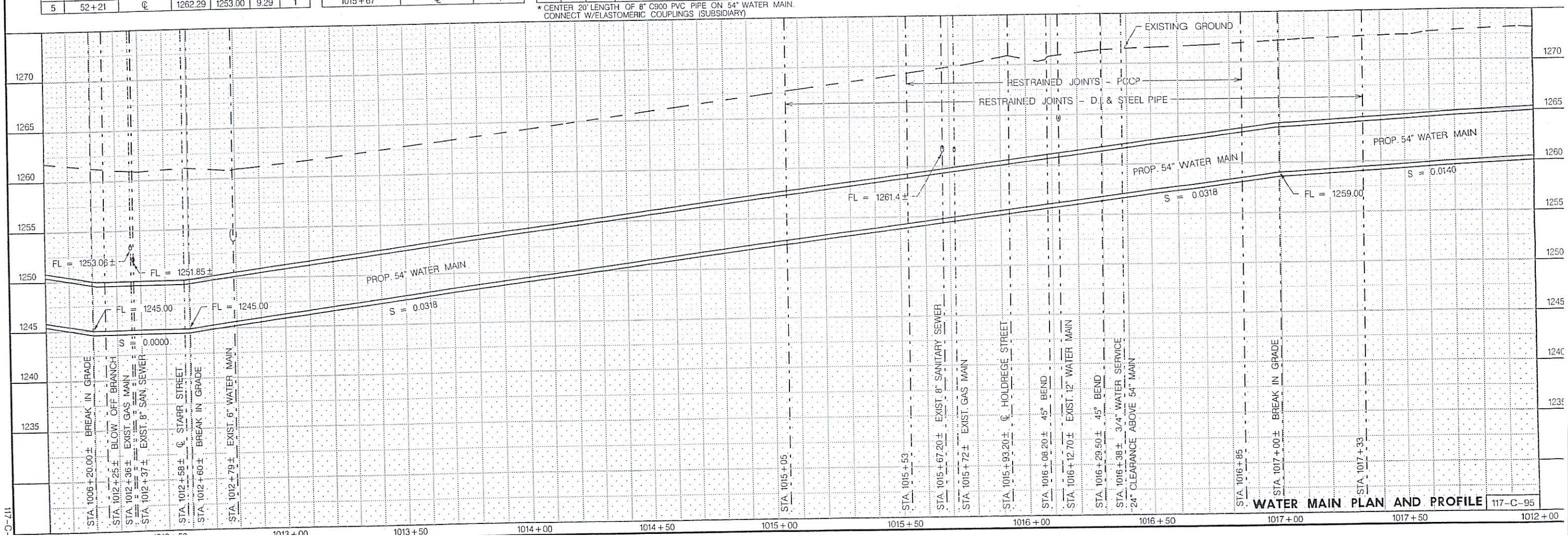
RECONSTRUCT SANITARY SEWER SERVICE — 22.0820

STATION	OFFSET	EA
1012+37	℄	1
1015+67	℄	1

SANITARY SEWER PIPE — 22.0080 - 22.0085

NO.	SIZE	LF	DESCRIPTION
7	8"	20*	8" PVC
8	8"	20*	8" PVC

* CENTER 20' LENGTH OF 8" C900 PVC PIPE ON 54" WATER MAIN. CONNECT W/ELASTOMERIC COUPLINGS (SUBSIDIARY)



WATER MAIN PLAN AND PROFILE 117-C-95

117-C-

PROJ: 0512241 – Holdrege Water Main.cfg
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USER: jenolson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279PW04.DGN

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	26
Date: 4/10/2007	Drawn: JDK
Horz. Scale 1 : 1 40	Checked: SKS
	Approved: RLF

1017+00 1018+00 1019+00 1020+00 1021+00 1022+00 1023+00

0 20 40

1017+00 1023+00

MATCH LINE MATCH LINE

PROPOSED 54" WATER MAIN

30'

HOLDREGE ST.

SECTION LINE

EXISTING ROW

79th ST.

1022+88.13 (54") = 20+40 (16")11' RT.
BEGIN 16" WATER MAIN

WATER MAIN — 50.0005

NO.	STATION TO STATION	SIDE	SIZE	LF
5	1017+00 – 1023+00	℄	54"	600
5A	1021+28 – 1021+28	LT.&RT.	6"	25

LOOP WATER SERVICE — 23.0690

STATION	OFFSET	EA
1020+59	℄	1

COPPER WATER SERVICE PIPE — 23.0680 – 23.0715

NO.	STATION TO STATION	SIDE	SIZE	LF
19	1020+59	LT.&RT.	2.5"	25

BUILD COMBINATION AIR & VACUUM VALVE IN M.H.

NO.	STATION	SIDE	COMMENTS
1	1019+53	℄	SEE DETAIL SHT 4

RECONSTRUCT WASTEWATER SERVICE — 22.0820

STATION	OFFSET	EA
1021+37	LT.&RT.	1

WASTEWATER FORCE MAIN PIPE — 22.0080 – 22.0085

NO.	SIZE	LF	DESCRIPTION
1	4"	30 *	7800 HOLDREGE ST.

* CENTER 20' LENGTH OF 4" C900 PVC PIPE ON 54" WATER MAIN. CONNECT WITH ELASTOMETRIC COUPLINGS (SUBSIDIARY)

C.P. TEST STATIONS — 50.0001

NO.	STATION	SIDE & OFFSET	EA.
7	1021+03	13.0' LT.	1

—XXX— INSTALL, MAINTAIN, & REMOVE SYNTHETIC FABRIC SILT FENCE — 32.0040

STATION TO STATION	SIDE	LF
1017+00 – 1018+60	LT.	160
1018+69 – 1019+85	LT.	116
1020+10 – 1022+35	LT.	225
1022+65 – 1023+00	LT.	35

CAST IRON WATER MAIN FITTINGS, M.J. — 23.0499 – 23.0663

NO.	STATION	OFFSET	DESCRIPTION
3	1022+88.13	11' RT.	1 – 16" SOLID SLEEVE (L=15")

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E-8251
STATE OF NEBRASKA

1270 1265 1260 1255 1250 1245 1240 1235

EXISTING GROUND

PROP. 54" WATER MAIN
S = 0.0140
FL = 1259.00

PROP. 54" WATER MAIN
S = 0.0137
FL = 1262.50

PROP. 54" WATER MAIN
S = 0.0573
FL = 1258.50

STA. 1017+00.00± BREAK IN GRADE

STA. 1018+13± WATER SERVICE (ABANDONED)

STA. 1019+50.00± BREAK IN GRADE

STA. 1019+53.00 COMINATION AIR & VACUUM VALVE IN M.H.

STA. 1020+59± 3" WATER SERVICE (DUCTILE IRON)

STA. 1021+28 6" WATER MAIN

STA. 1020+38 4" F.M. SEWER SERVICE RAISE F.M. ELEVATION FOR 18" MINIMUM CLEARANCE ABOVE WATER MAIN

STA. 1022+40± BREAK IN GRADE

STA. 1022+48.13 ℄ 79th ST.

STA. 1022+88.13, 10.98' RT. BEGIN 16" WATER MAIN

1017+00 1017+50 1018+00 1018+50 1019+00 1019+50 1020+00 1020+50 1021+00 1021+50 1022+00 1022+50 1023+00

WATER MAIN PLAN AND PROFILE

117-C-95

117-C-95

PROJ: 0312241 – Holdrege Water Main.ctg
PEN: ...\Resources\Pen\BW_PENTABLE.tbl
USER: jjnutson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279PW05.DGN

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	27

Date: 4/10/2007 Drawn: JDK
Horz. Scale 1: 1.49 Checked: SKS
Approved: RLR

1023+00 1024+00 1025+00 1026+00 1027+00 1028+00 1029+00

WATER VALVE AND/OR HYDRANT 23.0100 – 23.0460

NO.	STATION	OFFSET	DESCRIPTION
3	25+32	℄	1 – 16" BUTTERFLY VALVE, M.J. 2 – 16" RETAINER GLANDS
4	25+22	LT.	1 – 6" GATE VALVE, M.J.
5	25+17	LT.	1 – 6" GATE VALVE, M.J. 1 – 6" ANCHORING COUPLING, M.J. (L=18") 1 – 6" ANCHORING ELBOW, M.J. 1 – HYDRANT, COMPL. (L=6.5') F.L.=1236.91
6	23+40	LT.	1 – 6" GATE VALVE, M.J. 1 – 6" ANCHORING COUPLING, M.J. (L=18") 1 – 6" ANCHORING ELBOW, M.J. 1 – HYDRANT, COMPL. (L=6.5') F.L.=1244.58

CAST IRON WATER MAIN FITTINGS, M.J. 23.0499 – 23.0663

NO.	STATION	OFFSET	DESCRIPTION
4	25+22	℄	1 – 16" x 6" TEE, M.J. 1 – 6" R.C. TEE BLOCK 1 – 6" RETAINER GLAND
5	25+22	℄	1 – 6" OFFSET, M.J. (24" DROP) 2 – 6" RETAINER GLANDS
6	25+22	℄	1 – 6" x 6" SWIVEL TEE, M.J.
7	25+17	℄	1 – 6" OFFSET, M.J. (18" DROP) 4 – 6" RETAINER GLANDS 1 – 6" SOLID SLEEVE, M.J. (L=18")
8	23+40	℄	1 – 16" x 6" TEE, M.J. 1 – 6" R.C. TEE BLOCK 1 – 6" SOLID SLEEVE, M.J. (L = 18")
9	25+27	℄	1 – 16" x 6" TEE, M.J. 1 – 6" R.C. TEE BLOCK 1 – 6" RETAINER GLAND

C.P. TEST STATIONS 50.0001

NO.	STATION	SIDE & OFFSET	EA.
8	1025+14	8.0' LT.	1

INSTALL, MAINTAIN, & REMOVE SYNTHETIC FABRIC SILT FENCE 32.0040

STATION TO STATION	SIDE	LF
1023+00 – 1027+34	LT.	434
1027+80 – 1029+00	LT.	120

INSTALL, MAINTAIN, & REMOVE STORM DRAIN INLET PROTECTION 32.0070 32.0080 32.0090

STATION	SIDE	TYPE	EA.
1027+07	19.59' RT.	III	1

CONC. & STEEL FOR THRUST BLOCK & ANCHORAGE (IN PLACE) 23.0665 – 23.0670

STATION	OFFSET	SIZE	CONC. (CY)	STEEL (LB)
25+22	℄	16"	0.10	–
23+40	℄	16"	0.10	–

0 20 40

EXISTING R.O.W.

STA. 20+81 16" MAIN DEFLECTS 4.76° LT.
STA. 1023+28, 13' RT. (54" MAIN)

STA. 21+45 16" MAIN
DEFLECTS 6.20° RT.
STA. 1023+92, 13' RT. (54" MAIN)

SECTION LINE

SEE SHEET 33 FOR PROFILE OF 16" WATER MAIN RELOCATION

PROPOSED 16" WATER MAIN

REMOVE 16" WATER MAIN

PROPOSED 54" WATER MAIN

80th ST.

STA. 1027+69(54" MAIN)=
STA. 30+16(6" MAIN)

STA. 25+90 16" MAIN
DEFLECTS 2.59° LT.
STA. 1028+38, 13' RT. (54" MAIN)

STA. 25+22, (16" MAIN)
STA. 1027+69, 13' RT. (54" MAIN)

HOLDREGE ST.

40'

MATCH LINE

MATCH LINE

WATER MAIN 50.0005

NO.	STATION TO STATION	SIDE	SIZE	LF
6	1023+00 – 1029+00	℄	54"	600
7	20+40 – 26+52	℄	16"	611
8	25+22 – 25+22	LT.	6"	35
9	25+27 – 25+27	RT.	6"	5

REM. & SALV. HYDRANT (CMPL.) 23.0960

NO.	STATION	OFFSET	EA
2	23+40	℄	1
3	25+32	3.6' LT.	1

REM. & SAL. GATE VALVE & BOX (CMPL.) 23.1000

STATION	OFFSET	SIZE	EA
23+40	RT.	16"	1
25+32	LT.	6"	1

72" STORM SEWER INLET (CMPL.) 99.2100

NO.	STATION	SIDE	TYPE	RIM EL	FL
1	1027+06	RT.	STRAIGHT	1245.70	1241.20

REMOVE & REPLACE MODULAR BLOCK RET. WALL 50.0045

STATION TO STATION	SIDE	SF
1028+23 – 1028+90	LT.	320

54" WATER MAIN FITTINGS 23.0499 – 23.0663

NO.	STATION	OFFSET	DESCRIPTION	EA.
3	1023+00	℄	54" X 6.20° BEND	1
4	1023+93	℄	54" X 6.20° BEND	1

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E-8251
STATE OF NEBRASKA

STA. 1026+50.00± BREAK IN GRADE
STA. 1027+33.80± EXISTING SAN. SEWER
STA. 1027+51.73 ℄ 80TH ST.
STA. 1027+70.70± EXIST. 6" WATER MAIN

PROP. 54" WATER MAIN
S = 0.0573

EXISTING GROUND

STA. 1023+00.00± LINE DEFLECTS 6° 12' LT
STA. 1092.57 LINE DEFLECTS 6° 12' RT.

FL = 1235.00
FL = 1235.80±
FL = 1229.10±

PROP. 54" WATER MAIN
S = 0.0301

1265 1260 1255 1250 1245 1240 1235 1230

1023+00 1024+00 1024+50 1025+00 1025+50 1026+00 1026+50 1027+00 1027+50 1028+00 1028+50 1029+00

WATER MAIN PLAN AND PROFILE 117-C-95

117-C-95

PROJ: 0512241 – Holdrege Water Main.ctg
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USER: jkrutson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279PW06.DGN

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	28

Date: 4/10/2007 Drawn: JDK
Horz. Scale 1 : 1.40 Checked: SKS
Approved: RLR

1029+00 1030+00 1031+00 1032+00 1033+00 1034+00 1035+00

CONC. & STEEL FOR COLLAR, ELBOW & HEADWALL — 21.0940 – 21.0950

NO.	STATION	OFFSET	FL	CONC. (CY.)	STEEL (LB)
1	1029+94	18.32' RT.	1232.7	1.16	98
2	1030+01	18.92' RT.	1232.7	1.16	98
3	1030+01	19.24' LT.	1232.7	3.20	468

—XXX— INSTALL, MAINTAIN, & REMOVE SYNTHETIC FABRIC SILT FENCE 32.0040

STATION TO STATION	SIDE	LF
1029+00 – 1033+48	LT.	448
1034+27 – 1035+00	LT.	73

C.P. TEST STATIONS 50.0001

NO.	STATION	SIDE & OFFSET	EA.
9	1029+24	8.0' LT.	1
10	1033+35	8.0' LT.	1

INSTALL, MAINTAIN, & REMOVE STORM DRAIN INLET PROTECTION — 32.0070 32.0080 32.0090

STATION	SIDE	TYPE	EA.
1034+68	29.50' RT.	III	1

CAST IRON WATER MAIN FITTINGS, M.J. 23.0646

NO.	STATION	OFFSET	DESCRIPTION
10	28+10	℄	1 – 16" SOLID SLEEVE, M.J. (L=15")

54" WATER MAIN FITTINGS — 23.0499 – 23.0663

NO.	STATION	OFFSET	DESCRIPTION	EA.
5	1029+19	℄	54" X 4.31° BEND	1
6	1030+18	℄	54" X 12" TANGENTIAL OUTLET	1
7	1033+18	℄	54" X 4.31° BEND	1

R.C.P. STORM SEWER — 21.0010 – 21.0370

NO.	SIZE	LF	CLASS	DESCRIPTION
1	48"	38	IV	EXIST. 48" TO HEADWALL
2	48"	38	IV	EXIST. 48" TO HEADWALL
3	15"	30	IV	C.I.–2 TO TAP 48" RCP
4 *	15"	15	IV	C.I.–3 TO TAP 48" RCP

* SEE SHEET 20 FOR INLET & STORM PIPE PLAN/LOCATION

WATER VALVE AND/OR HYDRANT — 23.0100 – 23.0460

NO.	STATION	OFFSET	DESCRIPTION
7	1033+62	26' LT.	1 – 6" GATE VALVE, M.J. 1 – 6" ANCHORING COUPLING, M.J. (L=18") 1 – 6" ANCHORING ELBOW, M.J. 1 – HYDRANT, COMPL. (L=6.5')

EXISTING PERMANENT EASEMENT

0 20 40

SAWYER CT.

NORTHWOODS DR.

EXISTING ROW

PROPOSED 54" WATER MAIN

28+00

28+10.3217
STA. 28+10
STA. 1030+58, 13.53' RT. (54" MAIN)
END WATER MAIN RELOCATION

HOLDREGE ST.

70'

SECTION LINE

MATCH LINE

MATCH LINE

WATER MAIN — 23.0005 23.0006 50.0005

NO.	STATION TO STATION	SIDE	SIZE	LF
10	1029+00 – 1035+00	℄	54"	600
11	26+53 – 28+10	℄	16"	157
12	1030+08 – 1030+18	LT.	12"	10

WATER VALVE AND/OR HYDRANT — 23.0430 23.0544 23.0660

NO.	STATION	OFFSET	DESCRIPTION
8	1030+16	LT.	1 – 12" BUTTERFLY VALVE, M.J. 1 – 12" x 45° BEND, M.J. 1 – 12" D.I. PLUG, 1–12" RETAINER GLAND

72" STORM SEWER INLET (CMPL.) 99.2100

NO.	STATION	SIDE	TYPE	RIM EL	FL
2	1029+63	RT.	STRAIGHT	1241.2	1236.8
3 *	1029+81	RT.	STRAIGHT	1241.2	1237.5

* SEE SHEET 20 FOR INLET & STORM PIPE PLAN/LOCATION

REM. & SALV. HYDRANT (CMPL.) 23.0960

NO.	STATION	OFFSET	EA
1	1033+37	4.53' LT.	1

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E-8251
STATE OF NEBRASKA

1255 1250 1245 1240 1235 1230 1225 1220

1265 1260 1255 1250 1245 1240 1235 1230

EXISTING GROUND

FL = 1232.9±

FL = 1224.00

FL = 1224.00

FL = 1229.10±

FL = 1235.80±

FL = 1232.50

PROP. 54" WATER MAIN

S = 0.0301

S = 0.0000

S = 0.0395

S = 0.0533

STA. 1029+18.66
LINE DEFLECTS 4°19' LT.

STA. 1029+99.00
TWIN 48" STORM SEWERS

STA. 1030+15.00
BREAK IN GRADE

STA. 1030+20.00
BLOW-OFF BRANCH

STA. 1030+35.00
BREAK IN GRADE

STA. 1032+50.00
BREAK IN GRADE

STA. 1033+17.20
LINE DEFLECTS 4°19' RT.

STA. 1033+62.00
EXIST. 16" PVC WATER MAIN

STA. 1033+90.78
℄ NORTHWOODS DR.

WATER MAIN PLAN AND PROFILE 117-C-95

1029+00 1029+50 1030+00 1030+50 1031+00 1031+50 1032+00 1032+50 1033+00 1033+50 1034+00 1034+50 1035+00

117-C-9

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

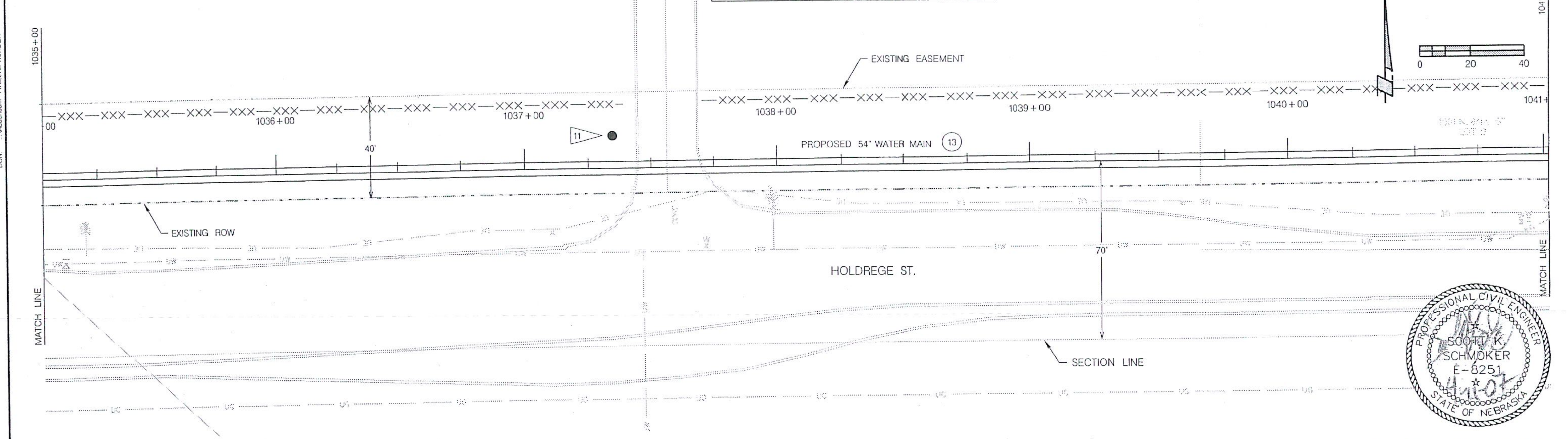
PROJECT NO.	SHEET NO.
702279	29

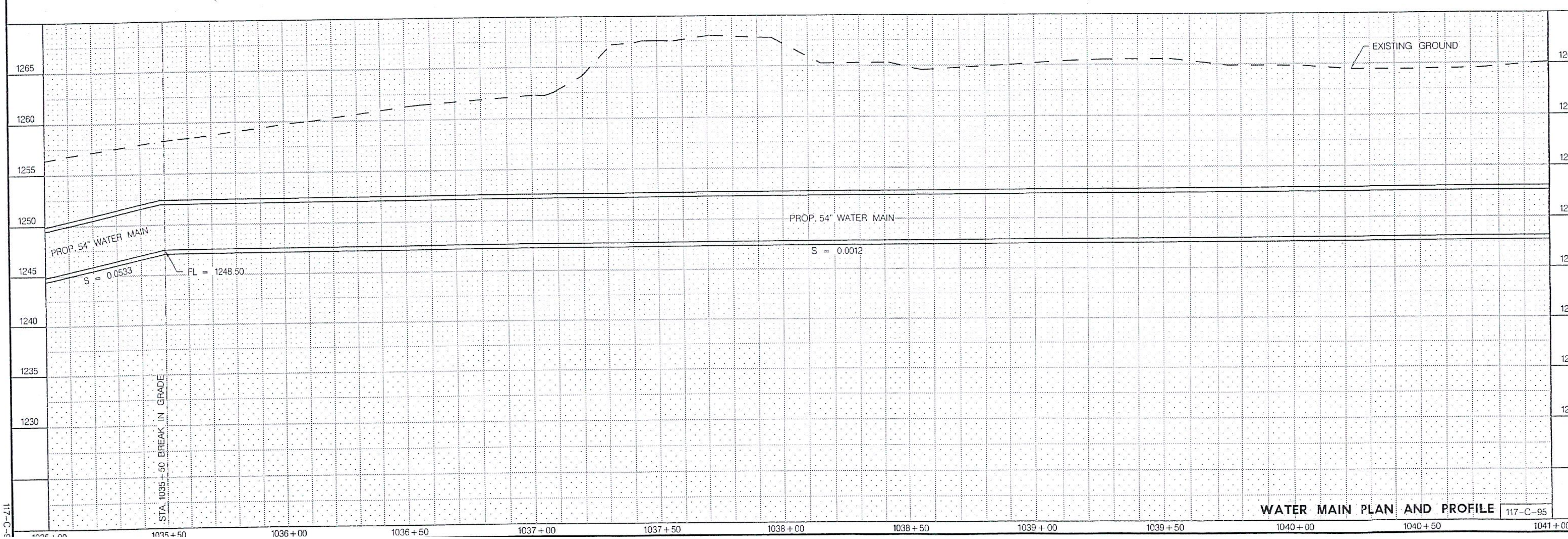
Date: 4/10/2007 | Horz. Scale 1 : 1:40 | Drawn: JDK | Checked: SKS | Approved: RLR

○ WATER MAIN				50.0005
NO.	STATION TO STATION	SIDE	SIZE	LF
13	1035+00 - 1041+00	℄	54"	600.0

▷ C.P. TEST STATIONS			50.0001
NO.	STATION	SIDE & OFFSET	EA.
11	1037+35	13.0' LT.	1

—XXX— INSTALL. MAINTAIN & REMOVE SYNTHETIC FABRIC SILT FENCE		32.0040
STATION TO STATION	SIDE	LF
1035+00 - 1037+39	LT.	237
1037+71 - 1041+00	LT.	330





WATER MAIN PLAN AND PROFILE 117-C-95

PROJ: 051241 - Holdrege Water Main.cfg
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USER: jknutson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279PW07.DGN

PROJ: 0512241 - Holdrege Water Main.ctg
PEN: ...\Resources\Pen\SW_PENTABLE.tbl
USER: jknutson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279PW08.DGN

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	30
Date: 4/10/2007	Drawn: JDK
Horz. Scale 1" = 40'	Checked: SKS
	Approved: RLR

1041+00 1042+00 1043+00 1044+00 1045+00 1046+00 1047+00

EXISTING EASEMENT

40'

MATCH LINE

PROPOSED 54" WATER MAIN

84TH ST.

HOLDREGE ST.

SECTION LINE

70'

30'

EXISTING ROW

EXISTING EASEMENT

MATCH LINE

0 20 40

R.C.P. STORM SEWER 21.0110

NO.	SIZE	LF	CLASS	DESCRIPTION
4	15"	49	IV	EXIST. TO EXIST.

BORING FOR SMOOTH STEEL CASING 50.0005

NO.	STATION TO STATION	SIDE	SIZE	THICK	LF
1	1041+57 – 1044+21	℄	72"	0.50"	264.5

CONC. & STEEL FOR COLLAR, ELBOW & HEADWALL 21.0940 - 21.0950

NO.	STATION	OFFSET	FL	CONC. (CY.)	STEEL (LB)
4	1045+01	16.70' LT.	MATCH	0.36	50
5	1045+42	10.44' RT.	MATCH	0.36	50

C.P. TEST STATIONS 50.0001

NO.	STATION	SIDE & OFFSET	EA.
12	1041+50	13.0' LT.	1
13	1044+25	13.0' LT.	1

54" WATER MAIN FITTINGS 50.0001

NO.	STATION	OFFSET	DESCRIPTION	EA.
3	1041+47	℄	54" X 30° BEND	1
4	1044+31	℄	54" X 30° BEND	1

WATER MAIN 50.0005

NO.	STATION TO STATION	SIDE	SIZE	LF
14	1041+00 – 1047+00	℄	54"	600.0

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RESTRAINED JOINTS - D.I. & STEEL PIPE

RESTRAINED JOINTS - PCCP

EXISTING GROUND

BORE IN PLACE 264.5 L.F. - 72" SMOOTH STEEL CASING

FL = 1256.7±

FL = 1260.9±

FL = 1261.00±

FL = 1269.40±

FL = 1264.50

FL = 1249.50

PROP. 54" WATER MAIN

S = 0.0001

S = 0.1377

S = 0.0073

7.8° VERTICAL BEND

7.4° VERTICAL BEND

STA. 1041+46.64 LINE DEFLECTS 30° 1' RT.
STA. 1041+56.64 BEGIN 72" SMOOTH STEEL CASING
STA. 1041+92.00 EXIST. 16" WATER MAIN
STA. 1042+03.00 EXIST. TELE AND ELEC.
STA. 1042+10.00 EXIST. GAS
STA. 1042+55.00 EXIST. 24" STORM SEWER
STA. 1042+91.51 ℄ 84th ST.
STA. 1042+93.00 EXIST. 48" WATER MAIN
STA. 1043+65.00 EXIST. TELE
STA. 1043+76.00 EXIST. TELE
STA. 1043+89.00 EXIST. 8" SAN. SEWER
STA. 1044+21.14 END 72" SMOOTH STEEL CASING
STA. 1044+31.14 BREAK IN GRADE LINE DEFLECTS 29° 05' LT.
STA. 1044+46.00
STA. 1044+56.00
STA. 1045+06.00± 1 1/2" WATER SERVICE
STA. 1045+16.00± EXIST. 15" STORM DRAIN
STA. 1045+40.00± BREAK IN GRADE

1275 1270 1265 1260 1255 1250 1245 1240

1041+00 1041+50 1042+00 1042+50 1043+00 1043+50 1044+00 1044+50 1045+00 1045+50 1046+00 1046+50 1047+00

WATER MAIN PLAN AND PROFILE 117-C-95

PROJ: 0512241 – Holdrege Water Main.dlg
PEN: ...\Resources\Pen\BW_PENTABLE.tbl
USER: jknutson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279PW09.DGN

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	31
Date: 4/10/2007	Drawn: JDK
Horz. Scale 1: 1-40	Checked: SKS
	Approved: RLP

1047+00 1048+00 1049+00 1050+00 1051+00 1052+00 1053+00

R.C. FLARED END SECTION – 42" *21.0690*

NO.	STATION	OFFSET	FL	DESCRIPTION
1	1051+64	RT.	1264.5	PIPE 6 OUTLET

BUILD COMBINATION AIR & VACUUM VALVE IN M.H. *50.0015*

NO.	STATION	SIDE	COMMENTS
2	1048+75	℄	SEE DETAIL ON SHT 4

C.P. TEST STATIONS *50.0001*

NO.	STATION	SIDE & OFFSET	EA.
14	1048+17	13.0' LT.	1
15	1052+14	13.0' LT.	1

HOLDREGE ST.

SECTION LINE

70'

0 20 40

EXISTING ROW

30'

PROPOSED 54" WATER MAIN

EXISTING EASEMENT

FIRE DEPT.

EAGLE CREST RD.

MATCH LINE

MATCH LINE

R.C.P. STORM SEWER *21.0180*

NO.	SIZE	LF	CLASS	DESCRIPTION
5	42"	37	IV	F.E.S. TO EXIST.

CONC. & STEEL FOR COLLAR, ELBOW & HEADWALL *21.0940 – 21.0950*

NO.	STATION	OFFSET	FL	CONC. (CY.)	STEEL (LB)
6	1051+90	10.59' LT.	1263.8	0.96	93

WATER MAIN *50.0005*

NO.	STATION TO STATION	SIDE	SIZE	LF
15	1047+00 – 1053+00	℄	54"	600.0

WASTEWATER PIPE *22.0080*

NO.	SIZE	LF	DESCRIPTION
9	8"	20.0*	1049+67 – 1049+67

*CENTER 20' LENGTH OF 8" PVC PIPE ON 54" WATER MAIN, CONNECT W/ ELASTOMERIC COUPLINGS (SUBSIDIARY)

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1285 1280 1275 1270 1265 1260 1255 1250

PROP. 54" WATER MAIN
S = 0.0073
FL = 1267.00
PROP. 54" WATER MAIN
S = 0.1187
FL = 1257.50
6.2° VERT BEND
FL = 1264.90±
UNKNOWN
FL = 1269.80±
EXISTING GROUND
FL = 1263.80±
PROP. 54" WATER MAIN
S = 0.0092

STA. 1048+75.00 COMBINATION AIR & VACUUM VALVE IN M.H.
STA. 1048+80.00 BREAK IN GRADE 7.2° VERT. BEND
STA. 1049+60.00 BREAK IN GRADE
STA. 1049+67.00 EXIST. 8" SAN. SEWER
STA. 1049+86.90 ℄ EAGLE CREST RD.
STA. 1050+08.00 EXIST. 8" WATER MAIN EXIST. GAS MAIN
STA. 1051+80.00 EXIST. 42" STORM SEWER

1047+50 1048+00 1048+50 1049+00 1049+50 1050+00 1050+50 1051+00 1051+50 1052+00 1052+50 1053+00

WATER MAIN PLAN AND PROFILE

117-C-95

PROJ. 0512241 – Holdrege Water Main.cdg
PEN ...\Resources\Pen\BW_PEN1ABLE.tbl
USER jmulson
DATE 4/10/2007
DGN ...\Addendum 1\702279PWN0.DGN

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	32

Date: 4/10/2007 Drawn: JDK
Horz. Scale 1" = 40' Checked: SKS
Approved: RLR

1053+00 1054+00 1055+00 1056+00 1057+00 1058+00 1059+00

401+00

400+00

SECTION LINE

HOLDREGE ST.

70'

EXISTING R.O.W.

PROPOSED 54" WATER MAIN

INSULATING FLANGE & I.F. TEST STATION

FUTURE 54" MAIN BY OTHERS

MATCH LINE

0 20 40

CONC. & STEEL FOR THRUST BLOCK & ANCHORAGE (IN PLACE) 23.0665 – 23.0670

STATION	OFFSET	SIZE	CONC. (CY)	STEEL (LB)
1056+40	LT.	6"	0.10	–
1056+40	LT.	6"	1.00	42.8

WATER VALVE AND/OR HYDRANT 23.0100 – 23.0460

NO.	STATION	OFFSET	DESCRIPTION
9	1056+40	LT.	1 – 6" GATE VALVE, M.J.
10	1056+30	℄	8" TANGENTIAL OUTLET AND BLOW-OFF ASSY., F.L. = 1249.77

R.C.P. STORM SEWER 21.0180

NO.	SIZE	LF	CLASS	DESCRIPTION
6	42"	21	IV	EXIST. TO EXIST.

CONC. & STEEL FOR COLLAR, ELBOW & HEADWALL 21.0940 – 21.0950

NO.	STATION	OFFSET	FL	CONC. (CY.)	STEEL (LB)
7	1056+06	108' LT.	MATCH	0.96	93
8	1056+24	119' LT.	MATCH	0.96	93

BORING FOR SMOOTH STEEL CASING 50.0005

NO.	STATION TO STATION	SIDE	SIZE	THICK	LF
2	1056+40 – 1056+40	LT.	12"	0.25"	65.0

C.P. TEST STATIONS 50.0001

NO.	STATION	SIDE & OFFSET	EA.
16	1056+50	13.0' LT.	1
17	1056+40	℄	1

WATER MAIN 50.0005 23.0008 23.0005

NO.	STATION TO STATION	SIDE	SIZE	LF
16	1053+00 – 1056+50	℄	54"	350.0
17	1056+40 – 1056+40	LT.	6"	110.0
18	1056+10 – 1056+40	LT.	16"	30.0

CAST IRON WATER MAIN FITTINGS, M.J. 23.0576 23.0658 23.0970

NO.	STATION	OFFSET	DESCRIPTION
11	1056+40	113' LT.	1–16"X6" TEE, M.J. 1–6" TEE BLOCK
12	1056+40	113' LT.	1–16" PLUG, M.J. 1–16" PLUG BLOCK
13	1056+15	113' LT.	REMOVE AND SALVAGE 16" PLUG

54" WATER MAIN FITTINGS 50.0001

NO.	STATION	OFFSET	DESCRIPTION
10	1056+50	℄	54" BULKHEAD
11	1056+40	℄	54" X 6" TEE

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1265 1260 1255 1250 1245 1240 1235 1230

RESTRAINED JOINTS – PCCP

RESTRAINED JOINTS – D.I. & STEEL PIPE

PROP. 54" WATER MAIN S = 0.0092

FL = 1252.50

PROP. 54" WATER MAIN S = 0.0227

FL = 1249.32

75 LF 12" STEEL CASING BORED IN PLACE

114' LF 6" WATER MAIN

30 LF 16" WATER MAIN

STA. 1053+80.00

STA. 1054+75.00

STA. 1055+00.00 BREAK IN GRADE

STA. 1056+30.00 8" BLOW-OFF F.L. = 1249.77

STA. 1056+40.00 54"x6" TEE, 6" F.L. = 1249.55

STA. 1056+50.00 END 54" WATER MAIN BULKHEAD

STA. 400+00 ℄ 54" WATER MAIN, 54" x 6" TEE

STA 401+09 6" GATE VALVE

STA. 401+14 16"x6" TEE

EXISTING 42" STORM SEWER I.E. = 1253.86

STA. 401+35 CONNECT TO EXISTING 16" WATER MAIN

1053+00 1053+50 1054+00 1054+50 1055+00 1055+50 1056+00 1056+50 400+00 400+50 401+00 401+50

WATER MAIN PLAN AND PROFILE

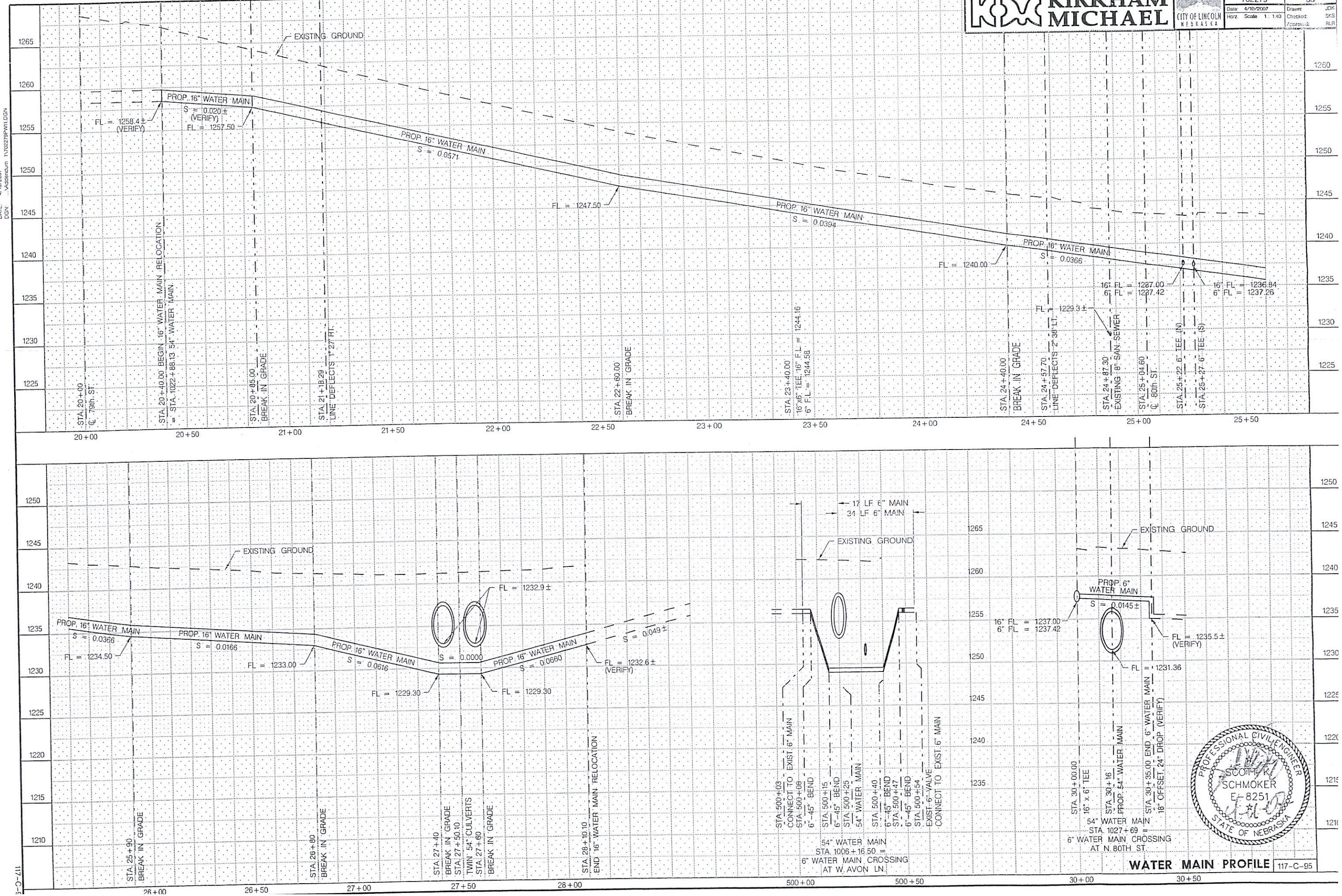
117-C-95

117-C-95

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	33
Date: 4/10/2007	Drawn: JDK
Horz. Scale 1 : 1.40	Checked: SKS
	Approved: RLR



WATER MAIN PROFILE 117-C-95

PROJ: 0512241 - Holdrege Water Main.cfg
PEN: ...\Resources\Pen\BW_PENTABLE.tbl
USER: jknutson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279PW11.DGN

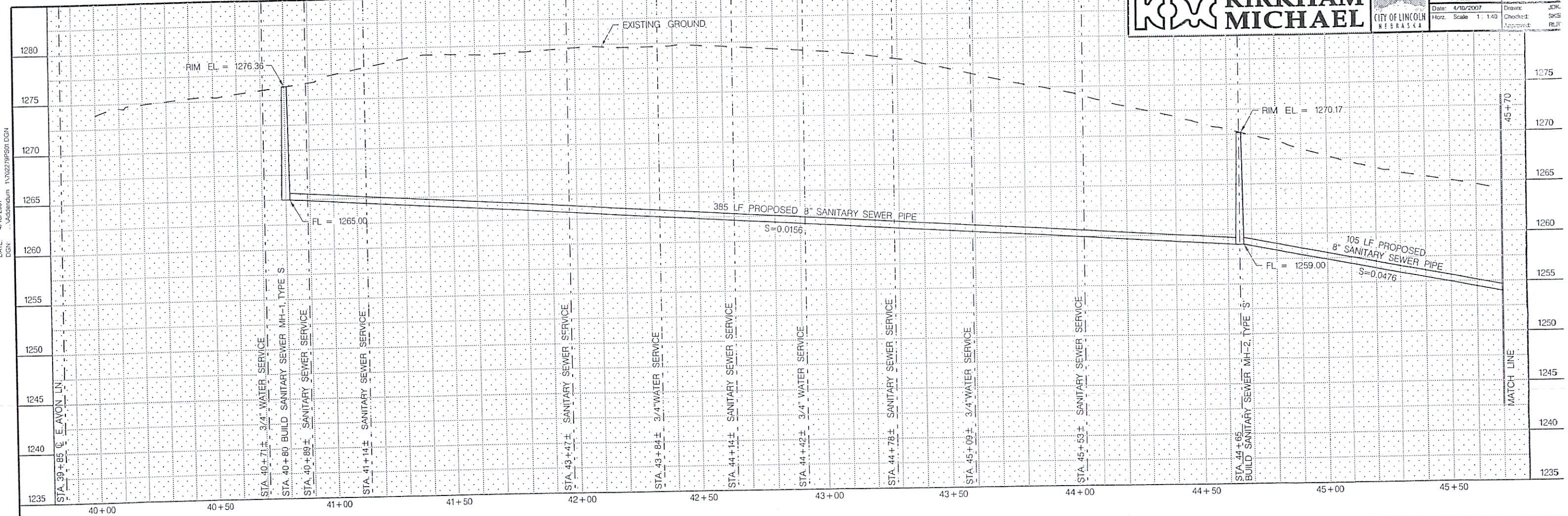
117-C-95

PROJ: 0512241 - Holdrege Water Main cfg
PEN: ...\Resources\Pen\SW_PENTABLE.tbl
USER: jshulson
DATE: 4/10/2007
DGN: ...\Addendum 1\702279PS01.DGN

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	34
Date: 4/10/2007	Drawn: JDK
Horz. Scale 1: 1-40	Checked: SKS
	Approved: RLR



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E-8251
4-11-07
STATE OF NEBRASKA

SANITARY SEWER PROFILE

117-C-95

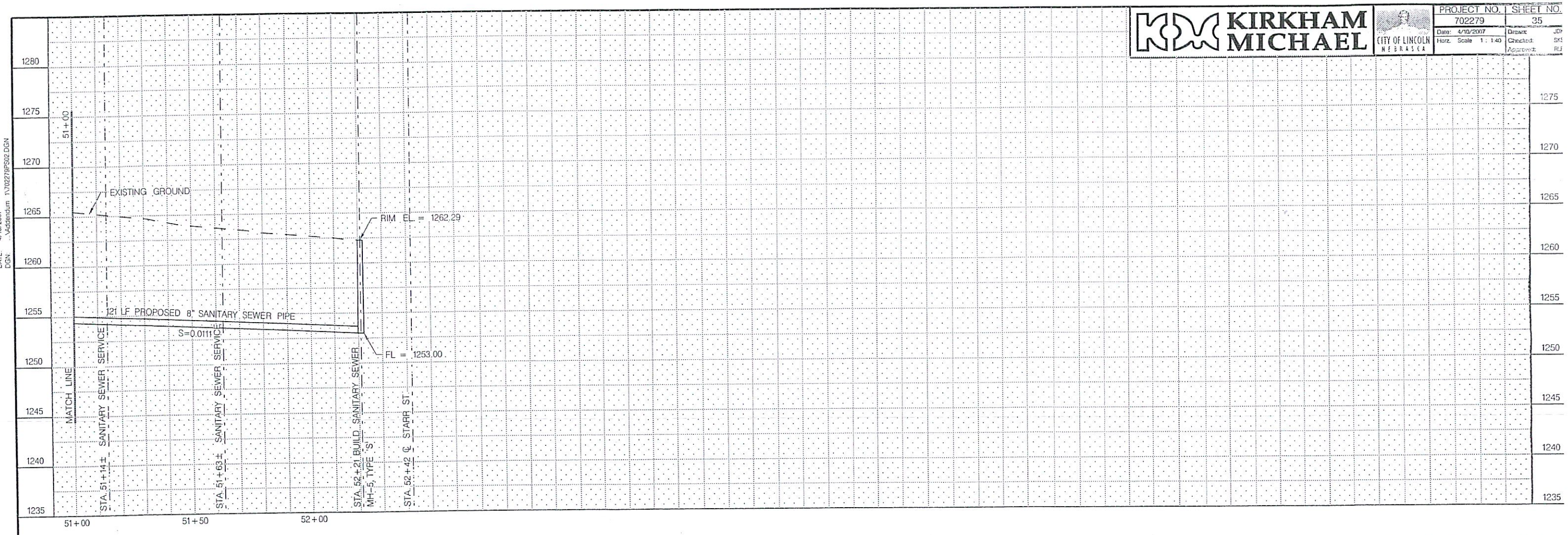
117-C-

PROJ: 0312241 – Holdrege Water Main.dtg
FEN: ...\Resources\Fen\GW_PENTABLE.tbl
USER: jmouton
DATE: 4/10/2007
DGN: ...\Addendum 1\702279PS02.DGN

KIRKHAM MICHAEL

CITY OF LINCOLN NEBRASKA

PROJECT NO.	SHEET NO.
702279	35
Date: 4/10/2007	Drawn: JDH
Horz. Scale 1 : 1-40	Checked: SKS
	Approved: RJL



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SCOTT K. SCHMOKER
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4-10-07
STATE OF NEBRASKA

SANITARY SEWER PROFILE 117-C-95

117-C-95