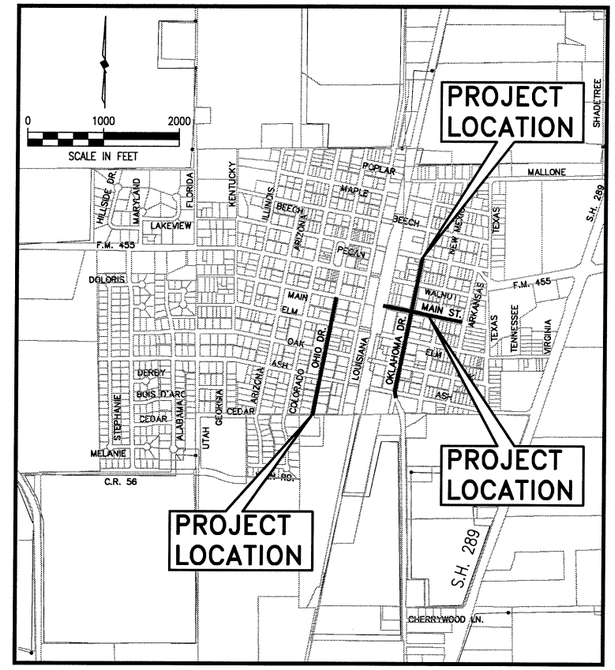
PLOT SCALE: 1:2 PLOT STYLE: 11x17.ctb PLOTTED BY: GDAVIS ON 3/10/2009
H:\Projects\Celina\2007141 CDBG Waterlines\Sheets\2007141-01.dwg
REVISED: 3/10/09 - GDAVIS

CITY OF CELINA, TEXAS

CONSTRUCTION PLANS FOR:

TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT
OHIO DRIVE, OKLAHOMA DRIVE & MAIN STREET
WATERLINE REPLACEMENTS
TXCDBG CONTRACT NO. 727100



LOCATION MAP

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BY PAC DATE 3/12/09

CITY COUNCIL
JIM LEWIS, MAYOR
BRAD GLENDENING
TODD McCALLY
WAYNE NABORS
JEANIE READY
SEAN TERRY

CITY ADMINISTRATOR
JASON GRAY

CITY SECRETARY
VICKI FAULKNER

CELINA EST. 1876

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
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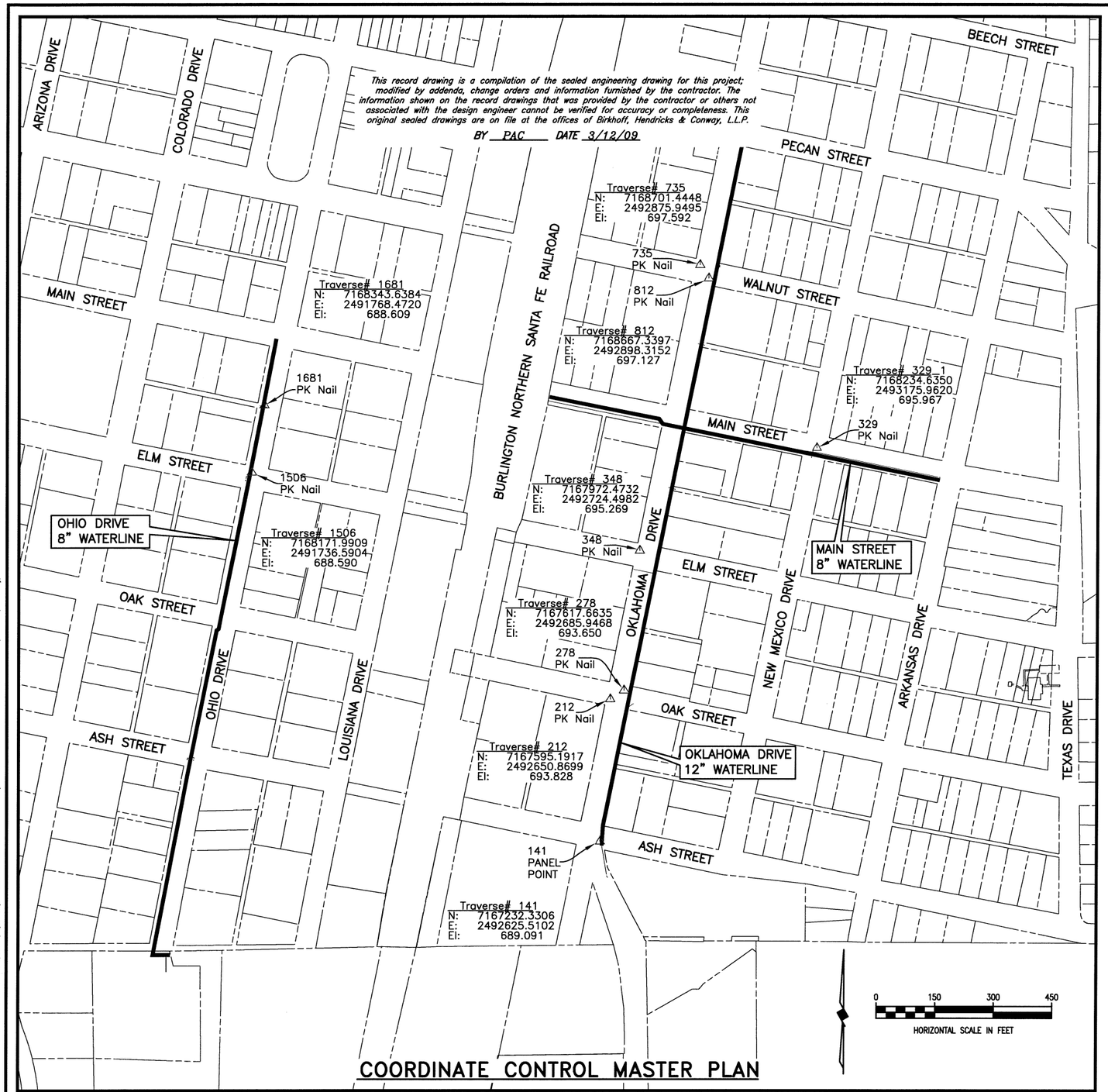
7 - 11	PLAN - PROFILE SHEETS
	MAIN STREET WATERLINE IMPROVEMENTS
12 - 14	PLAN - PROFILE SHEETS
	DETAILS
15 - 16	MISCELLANEOUS DETAILS

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

MAY 2008

STATE OF TEXAS
PAUL A. CARLINE
85400
LICENSED PROFESSIONAL ENGINEER
5/14/08



COORDINATE CONTROL MASTER PLAN

GENERAL PROJECT NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE MEASURES FOR PREVENTING STORM WATER RUNOFF FROM ENTERING THE TRENCH DURING CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE A STORM WATER POLLUTION PREVENTION PLAN AND ALL APPURTENANCES TO COMPLY WITH THE LATEST EPA STORM WATER POLLUTION PREVENTION REGULATIONS.
3. CONTRACTOR SHALL ANTICIPATE ENCOUNTERING GROUND WATER THROUGHOUT THIS PROJECT AND SHALL PROVIDE ADEQUATE MEASURES FOR DEWATERING THE TRENCH. ALL COSTS FOR PUMPS AND/OR OTHER RELATED RELATED APPURTENANCES SHALL BE INCLUDED IN THE APPROPRIATE ITEM OF THE BID SCHEDULE.
4. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL ERECT A TEMPORARY SECURITY FENCE AT ALL EXCAVATIONS.
5. TOPSOIL SHALL BE STOCKPILED AND REPLACED TO A MINIMUM DEPTH OF 6 INCHES AND DISC HARROWED TO A MINIMUM DEPTH OF 4 INCHES. CONTRACTOR IS ALLOWED TO IMPORT TOPSOIL TO ACHIEVE 6" DEPTH.
6. FINISHED GROUND SHALL HAVE NO MORE ROCKS OVER 1 INCH THAN SURROUNDING UNDISTURBED GROUND. ALL ROCKS LARGER THAN 1 INCH SHALL BE COLLECTED AND DISPOSED OF BY THE CONTRACTOR.
7. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF THE CONSTRUCTION TO IDENTIFY ANY POTENTIAL CONFLICTS AND SO THAT THE PROGRESS OF THE WORK WILL NOT BE DELAYED.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SERVICE LINES CROSSED OR EXPOSED BY HIS CONSTRUCTION OPERATIONS. WHERE EXISTING SERVICE LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY REPLACE THE SERVICE LINES WITH THE SAME TYPE OF ORIGINAL CONSTRUCTION, OR BETTER.
9. UTILITY OWNERS SHALL DETERMINE IF, WHEN AND WHICH UTILITY OR LIGHT POLES (IN THE VICINITY OF PROPOSED CONSTRUCTION) HAVE A NEED FOR ADDITIONAL SUPPORT. ONCE THE UTILITY OWNER MAKES THE DECISION AS TO WHETHER OR NOT UTILITY POLES AND LIGHT STANDARDS/POLES (NEAR EXCAVATION) REQUIRE ADDITIONAL SUPPORT, THE CONTRACTOR SHALL PROVIDE FOR SUPPORT OF SAID POLE OR LIGHT.
10. CONCRETE THRUST BLOCKING SHALL BE SUBSIDIARY TO PIPE COST AND SHALL BE SIZED TO RESTRAIN TEST PRESSURES. CONTRACTOR SHALL DIRECT (AND PAY) PIPE COMPANY TO SIZE THRUST BLOCKS. THRUST BLOCKS SHALL BE LOCATED AT ALL HORIZONTAL AND VERTICAL BENDS, REGARDLESS IF PIPE JOINTS ARE WELDED.
12. CONTRACTOR SHALL RESET ALL IRON RODS AND OTHER PROPERTY MARKERS DISTURBED BY CONSTRUCTION (NO SEPARATE PAY ITEM).
13. PAVEMENT REMOVAL AND REPLACEMENT SHOWN ON PLANS REFLECT ALLOWABLE TRENCH WIDTH. PAVEMENT REPLACEMENT SHALL BE PAID ON A SQUARE YARD BASIS AS PROVIDED FOR IN THE PROPOSAL AND BID SCHEDULE. ALL DRIVEWAYS ARE TO BE RETURNED TO ORIGINAL OR BETTER CONDITION.
14. ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS THROUGHOUT THE CONSTRUCTION. ANY AND ALL EXCAVATIONS NEAR DRIVEWAYS SHALL BE COVERED WITH TRAFFIC-SUPPORTING METAL PLATES OR BACKFILLED AND TOPPED WITH TEMPORARY ASPHALT PAVEMENT UNTIL PERMANENT PAVEMENT IS REPLACED.
15. ALL DISTURBED AREAS ALONG ROUTE CAUSED BY EXCAVATION OR TRAFFIC SHALL BE TILLED, SEEDED AND ESTABLISHED.
16. SITE-SPECIFIC TRENCH SAFETY PLAN SHALL INCLUDE A PLAN FOR EACH BORE PIT.
17. DAMAGED IRRIGATION SYSTEMS SHALL BE REPAIRED OR REPLACED TO THE PROPERTY OWNER'S SATISFACTION (NO SEPARATE PAY ITEM). CONTRACTOR SHALL IMMEDIATELY REPAIR DAMAGE TO UNDERGROUND SPRINKLER SYSTEMS. ALL REPAIRS SHALL BE COMPLETED BY AN IRRIGATOR LICENSED IN THE STATE OF TEXAS.
18. SIGNS ALONG ROUTE REMOVED FOR CONVENIENCE OF CONSTRUCTION SHALL BE REESTABLISHED AFTER COMPLETION OF BACKFILLING IN THAT AREA (NO SEPARATE PAY ITEM).
19. EROSION CONTROL DEVICES SHALL BE INSTALLED AS PER THE CONTRACTOR'S STORM WATER PREVENTION POLLUTION PLAN.
20. BACKFILL FOR ALL BORE PITS SHALL BE PLACED IN 8-INCH LOOSE LIFTS (LOOSE MEASUREMENT) AND BE MECHANICALLY COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 AT OPTIMUM MOISTURE PLUS OR MINUS TWO POINTS.
21. ALL TESTING AND TEST POINTS ARE SUBSIDIARY TO THE INSTALLATION OF THE WATER LINE (HYDROSTATIC, CHLORINATION, REMOVAL OF ALL TEST POINTS AND APPARATUS, ETC.).
22. PAYMENT FOR THE REMOVAL AND REPLACEMENT OF ANY EXISTING FENCING SHALL BE QUANTIFIED AND PAID FOR AT THE CONTRACT UNIT PRICE AS PROVIDED IN THE PROPOSAL AND BID SCHEDULE. ALL FENCES ARE TO BE RETURNED TO ORIGINAL OR BETTER CONDITION AND IN THEIR EXACT LOCATION.
23. TREES IN BOTH PERMANENT & TEMPORARY EASEMENTS ARE TO BE PROTECTED AND PRESERVED. TREES SPECIFICALLY IDENTIFIED FOR REMOVAL & DISPOSAL MAY BE REMOVED AND ONLY WITH WRITTEN CONFIRMATION BY THE OWNER.
24. ALL FIRE HYDRANTS LOCATED ON EXISTING WATERLINES THAT WILL BE ABANDONED BY THIS PROJECT SHALL BE REMOVED BY CONTRACTOR. FIRE HYDRANTS DETERMINED SALVAGEABLE BY CITY STAFF SHALL BE DELIVERED TO THE CITY PUMP STATION LOCATED ON ELM STREET, ALL OTHER FIRE HYDRANTS SHALL BE DISPOSED OF BY CONTRACTOR. PAYMENT FOR FIRE HYDRANT REMOVAL SHALL BE SUBSIDIARY TO ABANDONING EXISTING WATERLINES.
25. WATER LINES 6" TO 12" IN DIAMETER SHALL BE PVC AWWA C900 DR14 CLASS 200.

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STATE OF TEXAS
PAUL A. CARLINE
85400
LICENSED PROFESSIONAL ENGINEER
5/14/08

CITY OF CELINA, TEXAS
TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS
COORDINATE CONTROL MASTER PLAN
GENERAL PROJECT NOTES

BHC PROJECT NO. 2007-141
MAY 2008
SHEET NO. 2

REVISED: 3/12/09 – GDAVIS
H:\Projects\Celina\2007141 CDBG Waterlines\Sheets\2007141-02.dwg
PLOT SCALE: 1:2
PLOT STYLE: 11x17.ctb
PLOTTED BY: GDAVIS ON 3/17/2009

0 20 40 60

HORIZONTAL SCALE IN FEET

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BY PAC DATE 3/12/09

AMBERWOOD NURSING HOME

BLOCK 20

N 7166943.6022
E 2491486.7366
P.I. STA. 0+44.06
Δ = 100°32'46" RT.
FURNISH & INSTALL:
1-8" TEE
2-8" GATE VALVES
1-8" PLUG (WEST)
1-8" 11-1/4° BEND

REMOVE & REPLACE 4.6 S.Y. ASPHALT PAVEMENT & 3 S.Y. GRAVEL DRIVE

STA. 1+31.5
12 L.F. 1" TYPE "K" COPPER W.L.
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

STA. 1+93
14 L.F. 1" TYPE "K" COPPER W.L.
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

REMOVE & REPLACE 7.5 S.Y. ASPHALT PAVEMENT & 2 S.Y. GRAVEL DRIVE

FURNISH & INSTALL 8" WATERLINE

STA. 2+96
14 L.F. 1" TYPE "K" COPPER W.L.
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

FLAG POLE

REMOVE & REPLACE 46.7 S.Y. ASPHALT PAVEMENT

CONNECT TO EXIST. 6" FIRE LINE
FURNISH & INSTALL:
1 - 8"x6" TEE
1 - 6" GATE VALVE
2 - 6" 90° BENDS
12 L.F. 6" P.V.C. WATER LINE

N 7166943.4765
E 2491525.7983
STA. 0+05
FURNISH & INSTALL:
1-8"x6" TEE
1-6" R.S. GATE VALVE
1-STD. FIRE HYDRANT
8 L.F. 6" W.L.

N 7166943.4605
E 2491530.7982
STA. 0+00
BEGIN WATERLINE
FURNISH & INSTALL:
1-8" PLUG

12" CMP
36" CMP
24" CMP
12" RCP
MBX
WM
WV
FH
UP
24" HB
12" PECAN
10" HB
8" HB
IRF 3/8"
6" W.
CHAIN LINK FENCE
1+00
2+00
13.3'
EXIST. 60' R.O.W.

OHIO DRIVE

MATCH LINE STA. 3+00
N 7167195.0650, E 2491534.3896

STA. 1+42
34 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

ABANDON EXISTING 6" WATERLINE

STA. 2+31
35 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

BLOCK 1

EXISTING GROUND LINE

EXIST. 36" CMP 15' RT.
EXIST. 12" CMP LT.
EXIST. 12" CMP 6' LT.

8" W.L. ON +0.40%

300 L.F. 8" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

STA. 0+00
BEGIN 8" W.L.
F.L. 8" 675.96

STA. 3+00
F.L. 8" 677.16

690 685 680 675 670 665 660 655

0+00 1+00 2+00 3+00

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STATE OF TEXAS
PAUL A. CARLINE
85400
LICENSED PROFESSIONAL ENGINEER

5/14/08

CITY OF CELINA, TEXAS

TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

OHIO DRIVE
PLAN - PROFILE STA. 0+00 TO STA. 3+00

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 3

BLOCK 20

BLOCK 19

BLOCK 1

BLOCK 2

ASH STREET

OHIO DRIVE

MATCH LINE STA. 3+00
N 7167195.0650, E 2491534.3896

MATCH LINE STA. 8+00
N 7167685.7098, E 2491630.6176

0 20 40 60
HORIZONTAL SCALE IN FEET

STA. 3+27
13 L.F. 1" TYPE "K" COPPER W.L.
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

REMOVE & REPLACE 6.6 S.Y. ASPHALT PAVEMENT & 4 S.Y. GRAVEL DRIVE

STA. 4+47.5
7 L.F. 1" TYPE "K" COPPER W.L.
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

NO SERVICE
~~STA. 5+14~~
~~13 L.F. 1" TYPE "K" COPPER W.L.~~
~~TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER~~

N 7167408.7266
E 2491574.8791
P.I. STA. 5+15.46
Δ = 00°38'51" RT.

MOVED TEE SOUTH & CONNECTED TO EXIST. W.L. ON WEST SIDE

REMOVE & REPLACE 27.9 S.Y. ASPHALT PAVEMENT & 28 L.F. 15" R.C.P. CULVERT

FURNISH & INSTALL 8" WATERLINE

MOVED SERVICE TO STA. 6+20±
~~STA. 6+93.5~~
13 L.F. 1" TYPE "K" COPPER W.L.
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

REMOVE & REPLACE 7.7 S.Y. ASPHALT PAVEMENT

12" HB, 3-8" HB, UP, 12" CMP, 13.3', WM, 12" RCP, 24" ELM, WMo, UP, GAS CHECK, SIGN, 15" RCP, 6" W, WALK, UP, 12" RCP, EXIST. 60' R.O.W.

4+00, 5+00, 6+00, 7+00

MBX, TBX, UP, 12" PECAN, WM, 24" CMP, 26" ELM, WM, TBX, 6" W, WV, 18" RCP, 12" RCP, FH, 24" ELM, BRICK WALL, SIGN, WM, WALK, WM, 18" RCP, 8" ELM, 18" CE

ABANDON EXISTING 6" WATERLINE

STA. 3+45
37 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

STA. 4+27.5
39 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

40 L.F. 8" WATERLINE BY OTHER THAN OPEN CUT

STA. 5+26
46 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER
NO SERVICE

REMOVE & REPLACE 4.3 S.Y. ASPHALT PAVEMENT & CUT & PLUG EXIST. 6" W.L.

~~N 7167449.2985~~
~~E 2491592.9407~~
~~STA. 5+57.92~~
FURNISH & INSTALL:
1-8"x8" TEE
2-8" GATE VALVES
1-8" 90° BEND
1-8"x6" REDUCER
1-6"x6" TAPPING SLEEVE & VALVE
12 L.F. 8" W.L.

1" SERVICE FOR 2" TIE-IN

N 7167479.8368
E 2491589.1889
STA. 5+90
FURNISH & INSTALL:
1--8"x6" TEE
1-6" R.S. GATE VALVE
1-STD. FIRE HYDRANT
6 L.F. 6" W.L.

STA. 6+50.5
40 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

STA. 7+29.5
40 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

EXIST. 60' R.O.W.

STA. 5+54± EXIST. 6" WATER F.L. 680±

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BY PAC DATE 3/12/09

EXIST. 12" CMP 3.5' LT.
EXIST. 12" RCP 1.5' LT.
EXIST. 15" RCP 1' LT.
EXISTING GROUND LINE
EXIST. 12" RCP 2' LT.

8" W.L. ON +0.40%
8" W.L. ON +0.50%

STA. 4+65
STA. 5+05

165 L.F. 8" W.L. BY OPEN CUT W/CLASS B+ EMBEDMENT
40 L.F. 8" W.L. BY OTHER THAN OPEN CUT
295 L.F. 8" W.L. BY OPEN CUT W/CLASS B+ EMBEDMENT

STA. 3+00 F.L. 8" 677.16
P.V.I. STA. 5+17.46 F.L. 8" 678.03
STA. 8+00 F.L. 8" 679.44

690 685 680 675 670 665 660 655

3+00 4+00 5+00 6+00 7+00 8+00

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LICENSED PROFESSIONAL ENGINEER
5/14/09

CITY OF CELINA, TEXAS

TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

OHIO DRIVE
PLAN - PROFILE STA. 3+00 TO STA. 8+00

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 4

REVISED: 3/13/09 – GDAVIS

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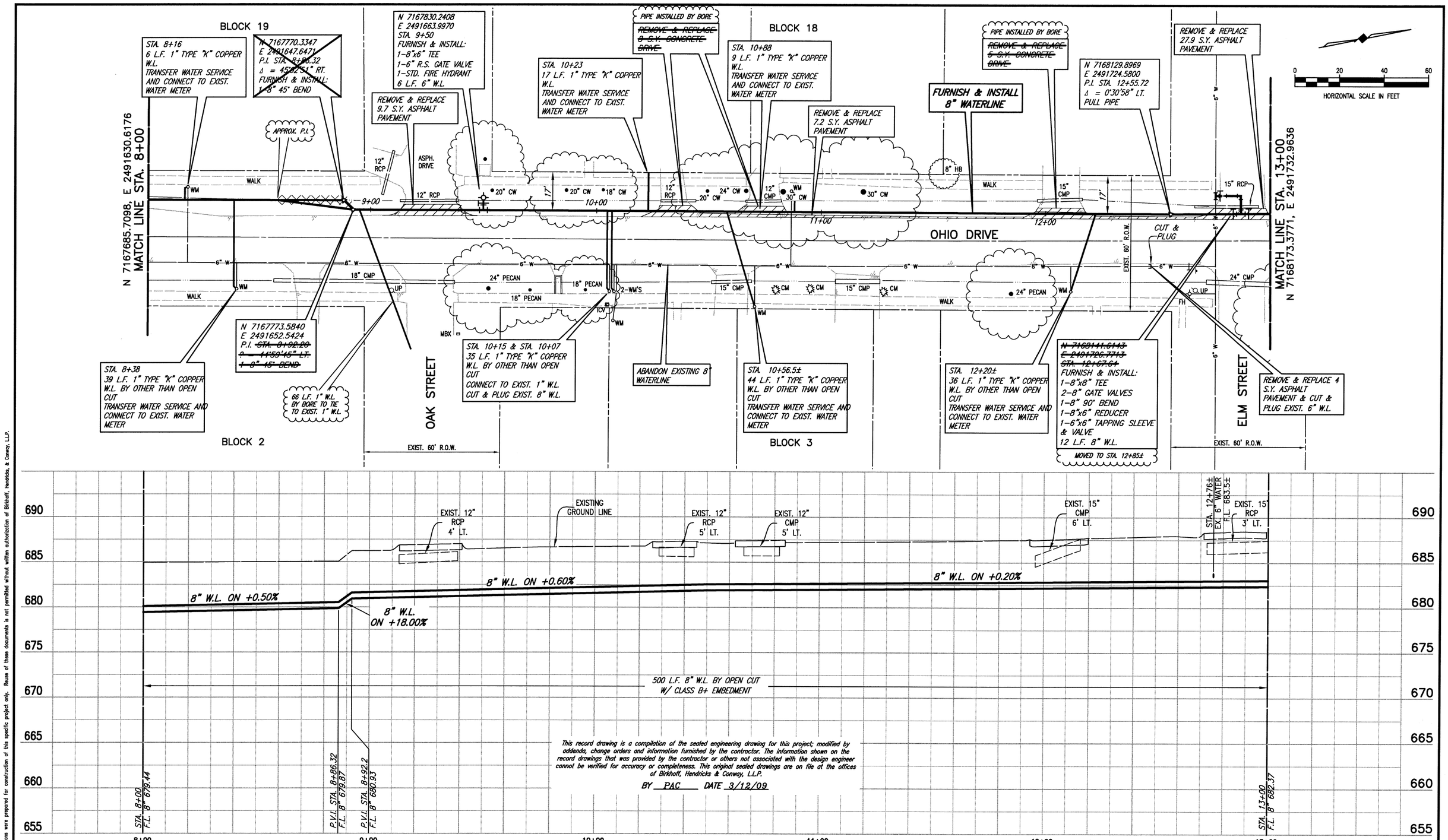
PLOT SCALE: 1:2 PLOT STYLE: 11x17.ctb PLOTTED BY: GDAVIS ON 3/13/2009



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TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

OHIO DRIVE
PLAN - PROFILE STA. 8+00 TO STA. 13+00

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 5

REVISED: 3/13/09 – GDAVIS
H:\Projects\Celina\2007141 CDBG Waterlines\Sheets\2007141-PP03.dwg
PLOT SCALE: 1:2
PLOT STYLE: 11x17.ctb
PLOTTED BY: GDAVIS ON 3/13/2009

ELM STREET

MATCH LINE STA. 13+00
N 7168173.3771, E 2491732.9636

REMOVE & REPLACE 1.4 S.Y. ASPHALT PAVEMENT & 8 S.Y. CONCRETE DRIVE

REMOVE & REPLACE 10 S.Y. CONCRETE DRIVE

STA. 14+24
7 L.F. 1" TYPE "K" COPPER W.L.
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

BLOCK 17

REMOVE & REPLACE 58.9 S.Y. ASPHALT PAVEMENT

FURNISH & INSTALL 8" WATERLINE

STA. 15+81
6 L.F. 1" TYPE "K" COPPER W.L.
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

MAIN STREET

BLOCK 16

N 7168513.6
E 2491798.6
STA. 16+46.5
FURNISH & INSTALL:
1-8"x12" TAPPING SLEEVE & VALVE

6" S.S.

12" W.

8" W.

14+00

15+00

16+00

OHIO DRIVE

EXIST. 60' R.O.W.

ABANDON EXISTING 2" WATERLINE

REMOVE 18 L.F. EXISTING 6" SANITARY SEWER
FURNISH & INSTALL:
18 L.F. 6" SDR 26 PVC SANITARY SEWER PRESSURE PIPE

STA. 14+67.5
37 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

STA. 15+34.5
36 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

BLOCK 4

BLOCK 5

0 20 40 60
HORIZONTAL SCALE IN FEET

STA. 14+70.5±
EXIST. 6" SAN. SEW.
F.L. 682.0±

EXISTING GROUND LINE

8" W.L. ON +0.20%

346.5 L.F. 8" W.L. BY OPEN CUT
W/CLASS B+ EMBEDMENT

STA. 13+00
F.L. 8" 682.37

STA. 16+46.5±
F.L. 8" 683.07
EXIST. 12" W.L.
F.L. 682.9±

690 685 680 675 670 665 660 655

13+00 14+00 15+00 16+00 17+00 18+00

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5/14/08

CITY OF CELINA, TEXAS

TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

OHIO DRIVE
PLAN - PROFILE STA. 13+00 TO STA. 16+46.5

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 6

REVISED: 2/25/08 – WHAYS

H:\Projects\Celina\2007141 CDBG Waterlines\Sheets\2007141-PP04.dwg PLOT SCALE: 1:2 PLOT STYLE: 11x17.ctb PLOTTED BY: GDAVIS ON 3/13/2009

BLOCK 41

BLOCK 42

BLOCK 56

BLOCK 55

60 L.F. 1" WATER SERVICE & TAP ON EXIST. 12" W.L.

FURNISH & INSTALL: 12" WATERLINE IN 18" STEEL ENCASEMENT PIPE BY OTHER THAN OPEN CUT

~~N 7167141.2489~~
~~E 2492612.9131~~
~~STA. 0+78.00~~ ±STA. -0+84
BEGIN WATERLINE
(VERIFY LOCATION & DEPTH)
CONNECT TO EXISTING 6" WATERLINE (SOUTH)
CUT, PLUG & ABANDON EXIST. 6" WATERLINE (NORTH)
FURNISH & INSTALL:
1-6" 11-1/4° BEND
1-12"x6" REDUCER

EXIST. 60' R.O.W.

EXISTING HIGH ZONE TRANSMISSION LINE

ABANDON EXISTING 6" WATERLINE

REMOVE EXISTING FIRE HYDRANT

OKLAHOMA DRIVE (BUS. S.H. 289)

EXISTING LOW ZONE WATERLINE

ASH STREET

VARIABLE WIDTH R.O.W.

5.4'

N 7167222.0
E 2492629.8
P.I. STA. 0+00
Δ = 13°14'20" RT.
FURNISH & INSTALL:
1- 12"x8" TEE
2-12" GATE VALVES
1-8" GATE VALVE
CONNECT TO EXISTING 8" WATERLINE (EAST)
CUT, PLUG & ABANDON EXIST. 8" W.L. (EAST)

ADDED 1 - 8"x6" REDUCER, 2 - 6" 90° BENDS & 20 L.F. 6" P.V.C. WATER

N 7167272.3977
E 2492632.9659
P.I. STA. 0+50.48
Δ = 7°44'24" RT.

~~N 7167268.9206~~
~~E 2492632.7447~~
~~STA. 0+17~~ STA. 0+65
FURNISH & INSTALL:
1-12"x6" TEE
1-6" R.S. GATE VALVE
1-STD. FIRE HYDRANT
6 L.F. 6" W.L.

FURNISH & INSTALL 12" WATERLINE

35 L.F. 12" WATERLINE BY OTHER THAN OPEN CUT

REMOVE & REPLACE 35 S.Y. GRAVEL DRIVE

STA. 2+80.5
4 L.F. 1" TYPE "K" COPPER W.L.
REMOVE & REPLACE EXIST. WATER METER OUTSIDE R.O.W.

MATCH LINE STA. 3+00
N 7167517.0080, E 2492682.1996

0+00 1+00 2+00

EXIST. 60' R.O.W.

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BY PAC DATE 3/12/09

0 20 40 60
HORIZONTAL SCALE IN FEET

EXISTING GROUND LINE

12" W.L. ON +0.70%

12" W.L. ON +0.28%

12" W.L. ON +1.50%

81.9 L.F. 12" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

52 L.F. 12" W.L. IN 18" STL. ENC. PIPE (3/8" THICK) BY OTHER THAN OPEN CUT

130 L.F. 12" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

35 L.F. 12" W.L. BY OTHER THAN OPEN CUT

80 L.F. 12" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

STA. -0+78.88
CONNECT TO EXIST. 8" W.L.
F.L. EXIST. 8" 683.34
F.L. 12" 683.08

STA. 0+03
P.V.I. STA. 0+00
CONNECT TO EXIST. 8" W.L.
F.L. EXIST. 8" 683.84
F.L. 12" 683.63

STA. 0+55

STA. 1+65
P.V.I. STA. 1+80
F.L. 12" 684.13

STA. 2+20

STA. 3+00
F.L. 12" 685.93

700 695 690 685 680 675 670 665

-1+00 0+00 1+00 2+00 3+00

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STATE OF TEXAS
PAUL A. CARLINE
85400
LICENSED
PROFESSIONAL ENGINEER

5/14/09

CITY OF CELINA, TEXAS

TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

OKLAHOMA DRIVE
PLAN - PROFILE STA. 0+00 TO STA. 3+00

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 7

BLOCK 42

BLOCK 43

BLOCK 44

OAK STREET

ELM STREET

OKLAHOMA DRIVE (BUS. S.H. 289)

EXISTING HIGH ZONE TRANSMISSION LINE

EXISTING LOW ZONE WATERLINE

WOOD FENCE

HOG WIRE FENCE

PIPE RAIL FENCE

WIRE RAIL FENCE

EXIST. 60' R.O.W.

MATCH LINE STA. 3+00
N 7167517.0080, E 2492682.1996

MATCH LINE STA. 8+00
N 7168007.1793, E 2492780.8510

0 20 40 60
HORIZONTAL SCALE IN FEET

FURNISH & INSTALL:
12" W.L. IN 18" STEEL ENCASEMENT PIPE BY OTHER THAN OPEN CUT

5 L.F. 1" WATER SERVICE & TAP ON EXIT. 12" W.L.

FURNISH & INSTALL
12" WATERLINE

ABANDON EXISTING 6" WATERLINE

STA. 7+05
FURNISH & INSTALL:
1-12"x12" TEE
CUT IN 12"x12" TEE
2-12" GATE VALVES (SOUTH & WEST)
8.5 L.F. 12" W.L. BY OPEN CUT
& 46 L.F. 12" W.L. IN 18" STEEL ENCASEMENT PIPE BY OTHER THAN OPEN CUT
SEE SHEET NO. 11 FOR PROFILE

FURNISH & INSTALL:
12" W.L. IN 18" STEEL ENCASEMENT PIPE BY OTHER THAN OPEN CUT

REMOVE & REPLACE
7 S.Y. GRAVEL DRIVE

REMOVE & REPLACE
4 S.Y. ASPHALT PVMT.

CUT & PLUG

REMOVE F.H.

CUT & PLUG & ABANDON EXISTING 6" WATERLINE

REMOVE & REPLACE
3 S.Y. CONCRETE SIDEWALK

STA. 6+78±
4 L.F. 1" TYPE "K" COPPER W.L.
REMOVE & REPLACE EXIST. WATER METER OUTSIDE R.O.W.

N 7167577.7891
E 2492694.4333
STA. 3+62
FURNISH & INSTALL:
1-12"x6" TEE
1-6" GATE VALVE
2-6" 45° BEND
18 L.F. 6" W.L.
1-6" PLUG (EAST)
CONNECT TO EXIST. 6" WATERLINE

STA. 4+31
4 L.F. 1" TYPE "K"
REMOVE & REPLACE EXIST. WATER METER OUTSIDE R.O.W.

N 7167634.6488
E 2492705.8777
STA. 4+20
FURNISH & INSTALL:
1-12"x6" TEE
1-6" R.S. GATE VALVE
1-STD. FIRE HYDRANT
6 L.F. 6" W.L.

90 L.F. 12" WATERLINE BY OTHER THAN OPEN CUT

STA. 5+67
4 L.F. 1" TYPE "K" COPPER W.L.
REMOVE & REPLACE EXIST. WATER METER OUTSIDE R.O.W.

N 7167921.6436
E 2492763.6423
P.I. STA. 7+12.75
Δ = = 00°00'17" LT.
PULL PIPE

STA. 7+16.2±
FURNISH & INSTALL:
1-12"x6" TEE
1-12" GATE VALVE (NORTH)
1-6" GATE VALVE (EAST)
1-6" PLUG (WEST)
CONNECT TO EXIST. 6" W.L. (EAST)

N 7167975.8079
E 2492774.5395
STA. 7+68
FURNISH & INSTALL:
1-12"x6" TEE
1-6" R.S. GATE VALVE
1-STD. FIRE HYDRANT
6 L.F. 6" W.L.

MOVED F.H. TO MAIN & N.M.

N 7167980.4648
E 2492775.4764
P.I. STA. 7+72.75
Δ = = 00°00'01" LT.
PULL PIPE

BLOCK 55

BLOCK 54

BLOCK 53

EXIST. 60' R.O.W.

STA. 3+70.5±
EXIST. 6" WATER
F.L. 688.5±

STA. 7+23.5±
EXIST. 1-1/2" WATER
F.L. 691.5±

EXISTING GROUND LINE

12" W.L. ON +1.50%

12" W.L. ON +0.16%

STA. 3+00
F.L. 12" 685.93

P.V.I. STA. 4+50
F.L. 12" 688.18

STA. 8+00
F.L. 12" 688.74

64 L.F. 12" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

STA. 3+64

39 L.F. 12" W.L. IN 18" STL. ENC. PIPE (3/8" THICK) BY OTHER THAN OPEN CUT

STA. 4+03

52 L.F. 12" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

STA. 4+55

90 L.F. 12" W.L. BY OTHER THAN OPEN CUT

STA. 5+45

174 L.F. 12" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

STA. 7+19

46 L.F. 12" W.L. IN 18" STL. ENC. PIPE (3/8" THICK) BY OTHER THAN OPEN CUT

STA. 7+65

35 L.F. 12" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

700 695 690 685 680 675 670 665

3+00 4+00 5+00 6+00 7+00 8+00

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BY PAC DATE 3/12/09

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85400
LICENSED PROFESSIONAL ENGINEER

5/14/08

CITY OF CELINA, TEXAS

TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

OKLAHOMA DRIVE
PLAN - PROFILE STA. 3+00 TO STA. 8+00

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 8

REVISED: 3/16/09 – GDAVIS

H:\Projects\Celina\2007141 CDBG Waterlines\Sheets\2007141-PP06.dwg

PLOT SCALE: 1:2

PLOT STYLE: 11x17.ctb

PLOTTED BY: GDAVIS ON 3/16/2009

BLOCK 44

BLOCK 45

BLOCK 53

BLOCK 52

REMOVE & REPLACE 29 S.Y. GRAVEL DRIVE

70 L.F. 1" W.L. BY BORE TO EXIST. SERVICE

STA. 9+98.5
57 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT
TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

8" WATERLINE SEE SHEET 12

REMOVE & REPLACE 18 S.Y. GRAVEL DRIVE

FURNISH & INSTALL: 12" W.L. IN 18" STEEL ENCASEMENT PIPE BY OTHER THAN OPEN CUT

58 L.F. 1" W.L. BY BORE TO EXIST. SERVICE

ABANDON EXISTING 6" WATERLINE

36 L.F. 12" WATERLINE BY OTHER THAN OPEN CUT

WROUGHT IRON FENCE

IRF 1/2"

16" PECAN

WALK

UP

4—MBX'S

6" S.S.

SSMH

36" CW

MBX

IRF 3/8"

12" CMP

12" RCP

WM

SIGN

GAS TEST

TSL SCHOOLZONE

CUT & PLUG

ABANDON EXISTING 6" WATERLINE

OKLAHOMA DRIVE
(BUS. S.H. 289)

EXIST. 60' R.O.W.

6" W

24" RCP

36" SYC

30" SYC

9+00

10+00

11+00

TBX

2—UP'S
UP METER
2—ELEC BX

20" PECAN

SH

3'

N 7168007.1793, E 2492780.8510
MATCH LINE STA. 8+00

MATCH LINE STA. 12+00
N 7168399.3252, E 2492859.7283

65 L.F. 12" WATERLINE BY OTHER THAN OPEN CUT

FURNISH & INSTALL 12" WATERLINE

~~REMOVE 18 L.F. 6" SANITARY SEWER~~
FURNISH & INSTALL:
18 L.F. 6" SDR 26 PVC SANITARY SEWER PRESSURE PIPE

STA. 9+63
6 L.F. 1" W.L. TO EXIST. SERVICE

57 L.F. 1" W.L. BY BORE TO EXIST. SERVICE

N 7168274.4963
E 2492834.6312
P.I. STA. 10+72.67
Δ = 00°00'24" LT.
PULL PIPE

N 7168284.3021
E 2492836.6027
STA. 10+82.68 OKLAHOMA DR. W.L. = ~~STA. 3+57.14~~ MAIN ST. W.L.
FURNISH & INSTALL:
1—12"x8" CROSS
2—12" GATE VALVE

IRF 1/2"

MAIN STREET

4+00

REMOVE & REPLACE 4.2 S.Y. CONCRETE WALK

16" HB

4—6" RB

24" SYC

N 7168333.3187
E 2492846.4581
P.I. STA. 11+32.67
Δ = 00°00'03" LT.
PULL PIPE

EXIST. 60' R.O.W.

0 20 40 60
HORIZONTAL SCALE IN FEET

RECORD DRAWING NOTES:

1. THE PROPOSED 8" WATERLINE ALONG THE SOUTH R.O.W. LINE OF MAIN STREET WAS REALIGNED IN THE FIELD.
2. THE ORIGINAL ALIGNMENT OF MAIN STREET WATERLINE FROM STA. 0+00 TO P.I. STA. 3+01.15 WAS 21' NORTH OF AND PARALLEL TO THE MAIN STREET SOUTH R.O.W. LINE.
3. THE REVISED ALIGNMENT OF MAIN STREET WATERLINE FROM STA. 0+00 TO P.I. STA. 3+01.15 IS 10' NORTH OF AND PARALLEL TO THE MAIN STREET SOUTH R.O.W. LINE.
4. THE ALIGNMENT OF MAIN STREET WATERLINE FROM (THE ORIGINAL) P.I. STA. 3+01.15 TO THE NORTH WAS CONSTRUCTED I.A.W. THE ORIGINAL PLANS/ALIGNMENT (TO APPROXIMATELY STA. 5+80, SEE SHEET 13).
5. THE ORIGINAL ALIGNMENT OF MAIN STREET WATERLINE FROM STA. 5+80 TO STA. 10+24.71 WAS 10' NORTH OF AND PARALLEL TO THE MAIN STREET SOUTH R.O.W. LINE.
6. THE REVISED ALIGNMENT OF MAIN STREET WATERLINE FROM STA. 5+80 TO STA. 10+24.71 IS 17' NORTH OF AND PARALLEL TO THE MAIN STREET SOUTH R.O.W. LINE.
7. THE ENGINEER'S ORIGINAL DESIGN INTENT WAS MAINTAINED IN THESE FIELD CHANGES WITH THE EXCEPTION THAT THE PROPOSED FIRE HYDRANT ASSY. FROM OKLAHOMA DRIVE STA. 7+68 (SEE SHEET 8) WAS RELOCATED AND INSTALLED AT MAIN STREET WATERLINE STA. 6+60± (SEE SHEET 13).

MAIN ST. WATERLINE (AS CONSTRUCTED)

MAIN ST. WATERLINE (ORIGINAL DESIGN)

MAIN ST. WATER SVC. (AS CONSTRUCTED)

MAIN ST. WATER SVC. (ORIGINAL DESIGN)

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BY PAC DATE 3/12/09

700 695 690 685 680 675 670 665

EXISTING GROUND LINE

STA. 9+25.5± EXIST. 6" SAN. SEW. F.L. 687.5±

STA. 11+26.5± EXIST. 6" WATER F.L. 690.8±

12" W.L. ON +0.16%

12" W.L. ON 0.0%

12" W.L. ON +0.20%

STA. 8+70

STA. 9+35

STA. 10+87

STA. 11+32

STA. 11+52

STA. 11+88

70 L.F. 12" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

65 L.F. 12" W.L. BY OTHER THAN OPEN CUT

152 L.F. 12" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

45 L.F. 12" W.L. IN 18" STEEL ENCASEMENT PIPE (3/8" THICK) BY OTHER THAN OPEN CUT

20 L.F. 12" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

36 L.F. 12" W.L. BY OTHER THAN OPEN CUT

12 L.F. 12" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

STA. 8+00
F.L. 12" 688.74

P.V.I. STA. 10+82.68= STA. 3+57.14 MAIN ST. W.L.
F.L. 12" 689.20
F.L. 8" 689.36

P.V.I. STA. 11+50
F.L. 12" 689.20

STA. 12+00
F.L. 12" 689.30

8+00 9+00 10+00 11+00 12+00

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5/14/08

CITY OF CELINA, TEXAS

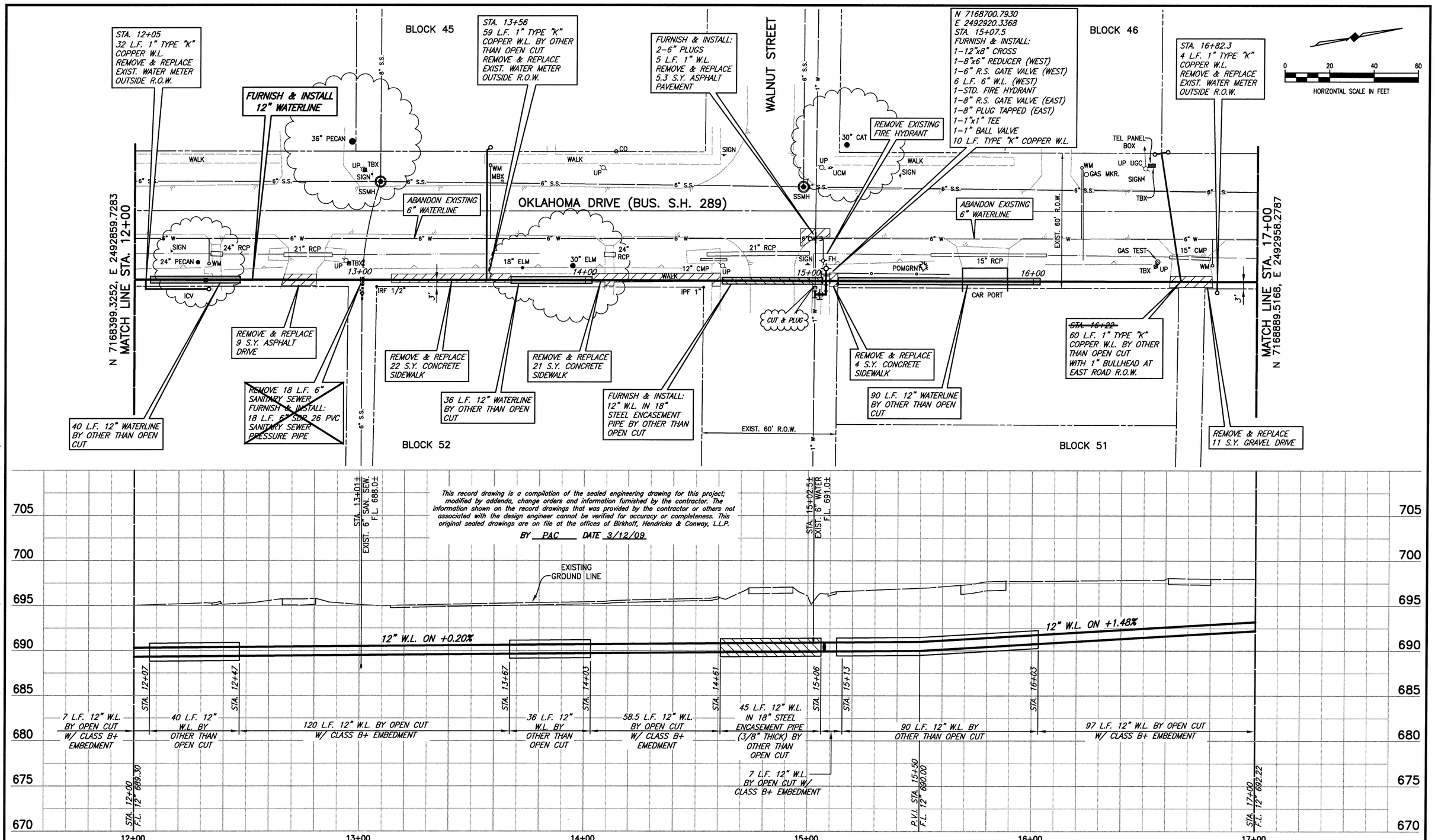
TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

OKLAHOMA DRIVE
PLAN - PROFILE STA. 8+00 TO STA. 12+00

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 9



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TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

OKLAHOMA DRIVE
PLAN - PROFILE STA. 12+00 TO STA. 17+00

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. **10**

REVISED: 3/16/09 – GDAVIS

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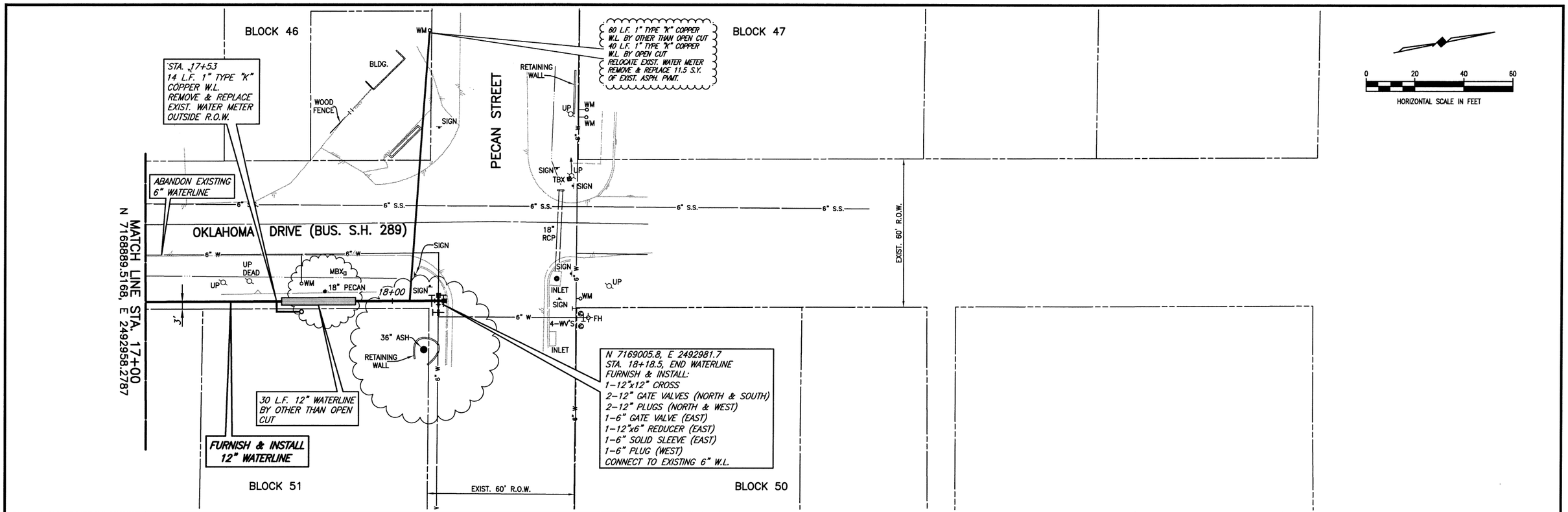
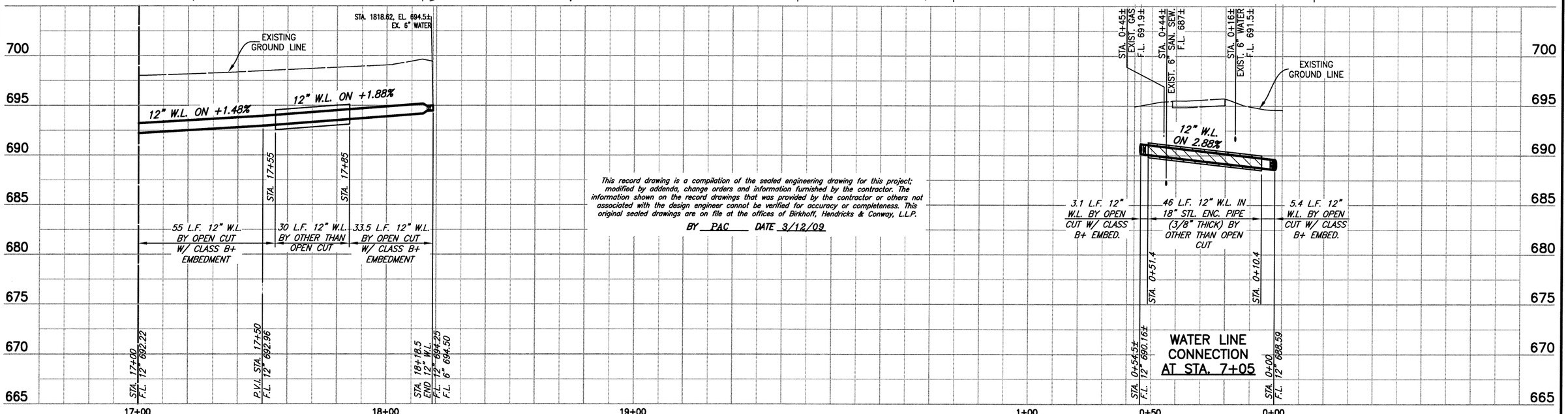
PLOT SCALE: 1:2 PLOT STYLE: 11x17.ctb PLOTTED BY: GDAVIS ON 3/16/2009





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CITY OF CELINA, TEXAS
TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS
OKLAHOMA DRIVE
PLAN - PROFILE STA. 17+00 TO STA. 18+18.5

BHC PROJECT NO. 2007-141
MAY 2008
SHEET NO. 11

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REVISED: 3/16/09 – GDAVIS
H:\Projects\Celina\2007141 CDBG Waterlines\Sheets\2007141-PP09.dwg
PLOT SCALE: 1:2
PLOT STYLE: 11x17.ctb
PLOTTED BY: GDAVIS ON 3/16/2009

BURLINGTON NORTHERN SANTE FE RAILROAD

BLOCK 45

~~N 7168368.8940~~
~~E 2492502.9754~~
STA. 0+10
FURNISH & INSTALL:
1-8"x6" TEE
1-6" R.S. GATE VALVE
1-STD. FIRE HYDRANT
6 L.F. 6" W.L.

~~STA. 0+36, 39 L.F.~~
50 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

REMOVE & REPLACE 9 S.Y. GRAVEL DRIVE

~~STA. 1+37.5, 39 L.F.~~
50 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

REMOVE & REPLACE 8 S.Y. GRAVEL DRIVE

~~N 7168308.3428~~
~~E 2492773.1134~~
P.I. STA. 2+65.59
Δ = 45°00'00" LT.
FURNISH & INSTALL:
1-8" 45° BEND

CUT, PLUG & ABANDON EXIST. 1" W.L.
REMOVE & REPLACE 9 S.Y. ASPHALT PAVEMENT

OKLAHOMA DRIVE (BUS. S.H. 289)

BLOCK 52

12" WATERLINE SEE SHEET 9

REMOVE & REPLACE 17 S.Y. GRAVEL DRIVE

ABANDON EXISTING 6" WATERLINE

0 20 40 60
HORIZONTAL SCALE IN FEET

18" CMP
UCM
30" CMP
18" CMP
12" RCP
SIGN RXR
12" RCP
SIGN
GAS TEST
UP
WM
SH
20" PECAN
24" RCP
WALK
16" HB
6" W
SIGN
24" RCP

MAIN STREET

ABANDON EXISTING 1" WATERLINE

EXIST. 60' R.O.W.

1" W
1+00
2+00
E
UP
18" CMP
12" CMP
GM
ICV
WM
CO
21'
12" CMP
SIGN
S.S.
UP METER
UP
SIGN
2-ELEC BX
11+00
10'
UP
TSL SCHOOLZONE
IRF 3/8"
36" CW
WALK
IRF 1/2"
SIGN
6" W
6" S.S.

MATCH LINE STA. 4+00
N 7168275.8191, E 2492878.6180

~~N 7168364.8639~~
~~E 2492493.1732~~
STA. 0+00
BEGIN 8" WATERLINE
FURNISH & INSTALL:
1-8" PLUG

~~STA. 0+89.5, 39 L.F.~~
50 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

FURNISH & INSTALL 8" WATERLINE

BLOCK 44

~~STA. 1+39, 12 L.F.~~
2 L.F. 1" TYPE "K" COPPER W.L. TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

REMOVE & REPLACE 11.7 S.Y. GRAVEL DRIVE

~~N 7168295.3834~~
~~E 2492781.7190~~
P.I. STA. 3+01.15
Δ = 45°00'00" RT.
FURNISH & INSTALL:
1-8" 45° BEND

50 L.F. 8" W.L. BY OTHER THAN OPEN CUT W/ 15" STL. ENC. PIPE

EXIST. 60' R.O.W.

24" RCP

BLOCK 53

N 7168281.7564
E 2492849.2114
STA. 3+70
FURNISH & INSTALL:
1-8"x6" TEE
1-6" R.S. GATE VALVE
1-STD. FIRE HYDRANT
6 L.F. 6" W.L.

N 7168284.3021
E 2492836.6027
STA. 3+57.14 MAIN ST. W.L.=
STA. 10+82.68 OKLAHOMA DR. W.L.
FURNISH & INSTALL:
2-8" GATE VALVES

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BY PAC DATE 3/12/09

RECORD DRAWING NOTES:

1. THE PROPOSED 8" WATERLINE ALONG THE SOUTH R.O.W. LINE OF MAIN STREET WAS REALIGNED IN THE FIELD.
2. THE ORIGINAL ALIGNMENT OF MAIN STREET WATERLINE FROM STA. 0+00 TO P.I. STA. 3+01.15 WAS 21' NORTH OF AND PARALLEL TO THE MAIN STREET SOUTH R.O.W. LINE.
3. THE REVISED ALIGNMENT OF MAIN STREET WATERLINE FROM STA. 0+00 TO P.I. STA. 3+01.15 IS 10' NORTH OF AND PARALLEL TO THE MAIN STREET SOUTH R.O.W. LINE.
4. THE ALIGNMENT OF MAIN STREET WATERLINE FROM (THE ORIGINAL) P.I. STA. 3+01.15 TO THE NORTH WAS CONSTRUCTED I.A.W. THE ORIGINAL PLANS/ALIGNMENT (TO APPROXIMATELY STA. 5+80, SEE SHEET 13).
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7. THE ENGINEER'S ORIGINAL DESIGN INTENT WAS MAINTAINED IN THESE FIELD CHANGES WITH THE EXCEPTION THAT THE PROPOSED FIRE HYDRANT ASSY. FROM OKLAHOMA DRIVE STA. 7+68 (SEE SHEET 8) WAS RELOCATED AND INSTALLED AT MAIN STREET WATERLINE STA. 6+60± (SEE SHEET 13).

MAIN ST. WATERLINE (AS CONSTRUCTED)
MAIN ST. WATERLINE (ORIGINAL DESIGN)
MAIN ST. WATER SVC. (AS CONSTRUCTED)
MAIN ST. WATER SVC. (ORIGINAL DESIGN)

EXISTING GROUND LINE

8" W.L. ON +0.30%

STA. 3+13.4±
EXIST. 6" SAN. SEW.
F.L. 687.0±

STA. 3+39±
EXIST. 6" WATER
F.L. 691.3±

304 L.F. 8" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

PROFILE AS PER ORIGINAL DESIGN

STA. 3+04

50 L.F. 8" W.L. BY OTHER THAN OPEN CUT W/ 15" STL. ENC. PIPE

STA. 3+54

46 L.F. 8" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

BEGIN 8" W.L.
STA. 0+00
F.L. 8" 688.29

STA. 3+57.14=
STA. 10+82.68 OKLAHOMA W.L.
F.L. 12" 689.20
F.L. 8" 689.36

STA. 4+00
F.L. 8" 689.49

700 695 690 685 680 675 670 665

0+00 1+00 2+00 3+00 4+00

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5/14/08

CITY OF CELINA, TEXAS

TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

MAIN STREET
PLAN - PROFILE STA. 0+00 TO STA. 4+00

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 12

BLOCK 52

BLOCK 61

NEW MEXICO DRIVE

MAIN STREET

MATCH LINE STA. 4+00
N 7168275.8191, E 2492878.6180

MATCH LINE STA. 9+00
N 7168176.8639, E 2493368.7280

STA. 5+69.5
58 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

STA. 6+19.5
58 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

41 L.F. 8" WATERLINE BY OTHER THAN OPEN CUT

~~STA. 7+76.5, 62 L.F.~~
58 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

~~STA. 9+69.5~~
66 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

ABANDON EXISTING 6" WATERLINE

REMOVE & REPLACE 8 S.Y. ASPHALT PAVEMENT

FURNISH & INSTALL 8" WATERLINE

STA. 5+47
58 L.F. 1" TYPE "K" COPPER W.L. BY OTHER THAN OPEN CUT TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

REMOVE 18 L.F. EXISTING 6" SANITARY SEWER
FURNISH & INSTALL:
18 L.F. 6" SDR 26 PVC SANITARY SEWER PRESSURE PIPE
NO SEWER LINE PRESENT

REMOVE & REPLACE 22 S.Y. ASPHALT PAVEMENT

~~STA. 7+04, 23 L.F.~~
4 L.F. 1" TYPE "K" COPPER W.L. TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

REMOVE & REPLACE 2 S.Y. CONCRETE SIDEWALK

REMOVE & REPLACE 9 S.Y. GRAVEL DRIVE

~~STA. 8+50.5, 1 L.F.~~
8 L.F. 1" TYPE "K" COPPER W.L. TRANSFER WATER SERVICE AND CONNECT TO EXIST. WATER METER

REMOVE & REPLACE 7 S.Y. GRAVEL DRIVE

15 L.F. 8" WATERLINE BY OTHER THAN OPEN CUT

5 L.F. 1" TYPE "K" SERVICE

WOOD FENCE
WALK
4-6" RB
24" SYC
14" HB
18" ELM
12" CMP
15" RCP
15" CMP
YUCCA
SIGN
APPROX. P.I.
2-21" RCP
18" RCP
30" CW
26" CW
2-8" RB
16" HB
BOLLARD
RTP HEDGE
HOG WIRE FENCE
EXIST. 60' R.O.W.
10'
5+00
6+00
7+00
8+00
9+00
0 20 40 60
HORIZONTAL SCALE IN FEET

EXISTING GROUND LINE

STA. 6+09.65
EXIST. 8" SAN. SEW.
F.L. 669.01

8" W.L. ON +0.30%

STA. 4+00
F.L. 8" 689.49

STA. 9+00
F.L. 8" 690.99

STA. 6+70

STA. 7+11

STA. 8+85

270 L.F. 8" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

41 L.F. 8" W.L. BY OTHER THAN OPEN CUT

174 L.F. 8" W.L. BY OPEN CUT W/ CLASS B+ EMBEDMENT

15 L.F. 8" W.L. BY OTHER THAN OPEN CUT

PROFILE AS PER ORIGINAL DESIGN

700 695 690 685 680 675 670 665

RECORD DRAWING NOTES:

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MAIN ST. WATERLINE (ORIGINAL DESIGN)
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MAIN ST. WATER SVC. (ORIGINAL DESIGN)

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BY PAC DATE 3/12/09

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5/14/09

CITY OF CELINA, TEXAS

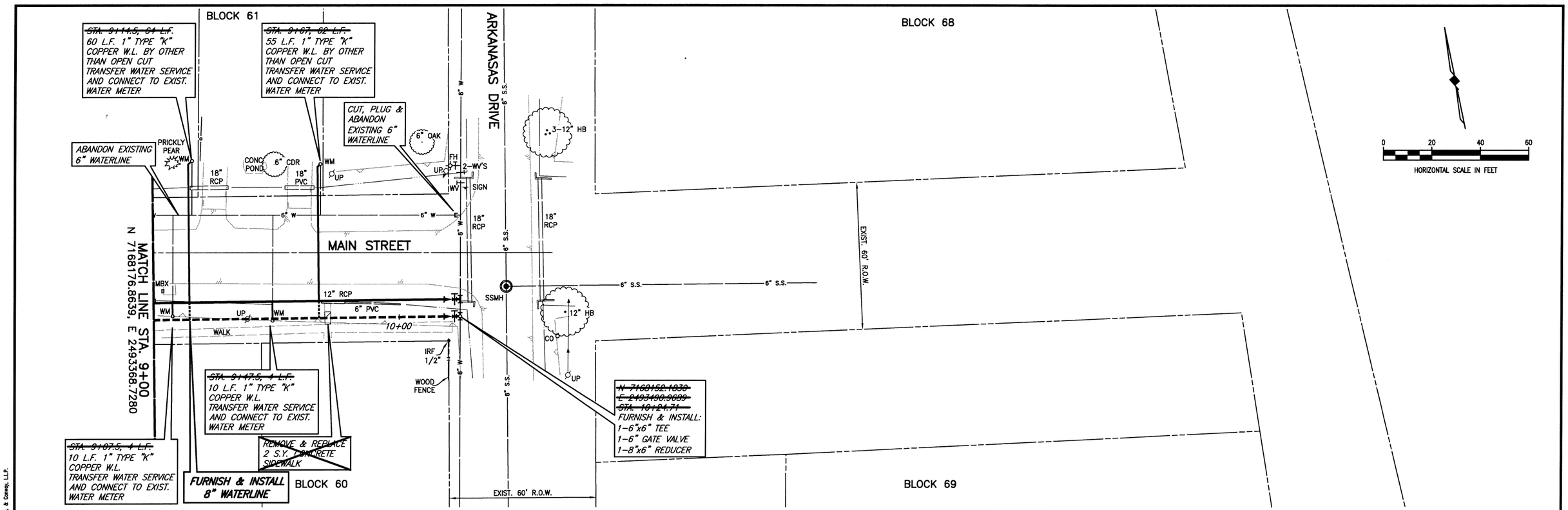
TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

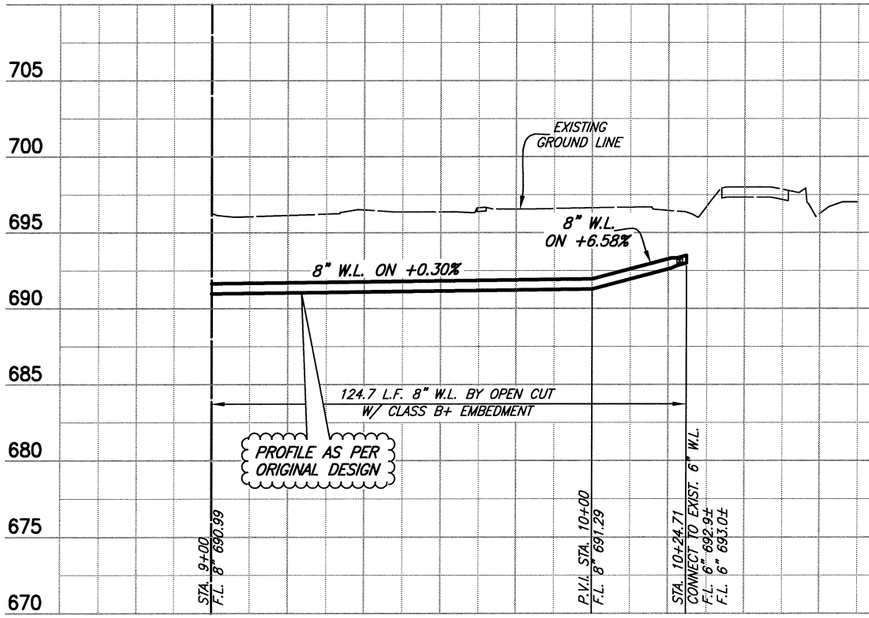
MAIN STREET
PLAN - PROFILE STA. 4+00 TO STA. 9+00

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 13





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MAIN STREET
PLAN - PROFILE STA. 9+00 TO STA. 10+60.5

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 14

REVISED: 3/17/09 – GDAVIS

H:\Projects\Celina\2007141 CDBG Waterlines\Sheets\2007141-PP12.dwg

PLOT SCALE: 1:2 PLOT STYLE: 11x17.ctb PLOTTED BY: GDAVIS ON 3/17/2009

APPURTENANCE & EMBEDMENT NOTES FOR PIPING

1. IN GENERAL ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARDS SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS SHALL HAVE A 5-1/4" MINIMUM VALVE OPENING AND WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE APPROVED BY THE CITY OF CELINA.

2. ENTIRE FIRE HYDRANT SHALL BE PAINTED USING 2 COATS OF PAINT (COLOR TO BE SELECTED BY THE CITY OF CELINA).

3. APPROVED FIRE HYDRANTS
   a. MUELLER (CENTURION)
   b. WATEROUS (PACER)
   c. DRESSER W. & H (929 RELIANT)
   d. KENNEDY (GUARDIAN)
   e. CLOW CORP. (MEDALLION)

4. ALL WATER LINES SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.

5. ALL WATER MAINS SHALL HAVE THE FOLLOWING MIN. COVER OR SUFFICIENT COVER TO CLEAR OTHER UTILITIES:
   - 42" MIN. COVER FOR 6" PIPE & SMALLER
   - 48" MIN. COVER FOR 8" PIPE
   - 54" TO 60" MIN. COVER FOR 10" & 12" PIPE

6. REMOVE ALL BLEEDER LINES UPON COMPLETION OF TESTING.

EMBEDMENT NOTES:

7. DEPTH OF TRENCH BELOW PIPE:
   - 3" MIN. FOR 27" PIPE & SMALLER
   - 4" MIN. FOR 30" TO 60" PIPE
   - 6" MIN. FOR 66" PIPE & LARGER

8. TRENCH WIDTH ("W") SHALL BE 24" PLUS O.D. FOR PIPE > 24" I.D. AND 16" PLUS O.D. FOR PIPE ≤ 24" I.D.

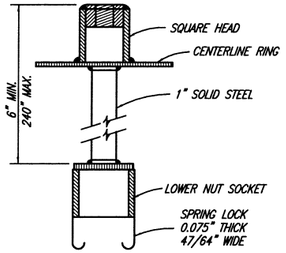
9. ALL COMPACTION SHALL BE ACCOMPLISHED BY MECHANICAL MEANS.

10. NATIVE BACKFILL:
    NATIVE BACKFILL MATERIAL TO BE COMPACTED AND BROUGHT BACK TO EXISTING GRADE. THE TOP 8" IS TO BE IMPORTED TOP SOIL.

11. SELECT MATERIAL (NCTCOG ITEM 2.1.8 (b) or (c)):
    SELECT MATERIAL SHALL BE GRAVEL, FINE ROCK CUTTINGS (LESS THAN 2" DIA.), SAND, OR SANDY LOAM. MATERIAL SHALL BE FREE OF CLAY. MECHANICALLY COMPACT IN 6" LIFTS TO 90% OF TEXAS METHOD TEX 113-E.

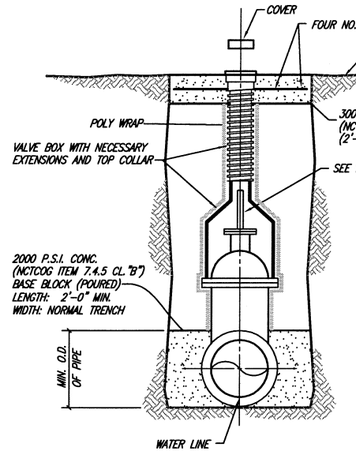
12. CRUSHED STONE (NCTCOG ITEM 2.1.8 (a)) FOR EMBEDMENT SHALL BE GRADE 4, STANDARD GRADATION:

SIEVE SIZE	PERCENT RETAINED
1 1/2"	0%
1"	0-5%
1/2"	40-75%
NO. 4	90-100%
NO. 8	95-100%



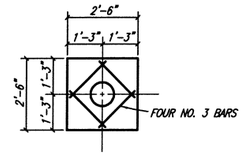
SPRING LOCK VALVE EXTENSION

NO SCALE



VALVE SETTING & BOX

NO SCALE



VALVE BOX PAD PLAN

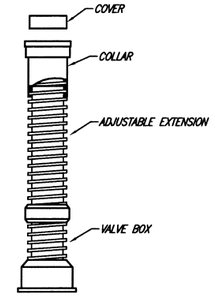
NO SCALE

WATER VALVE NOTES:

1. 4" TO 12" GATE VALVE SHALL BE RESILIENT SEATED WEDGE GATE VALVES ACCORDANCE WITH AWWA STANDARD C-509.

2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF THE VALVE BOX COVER.

3. VALVE SHALL BE WRAPPED IN POLY WRAP.



VALVE BOX WITH EXTENSION

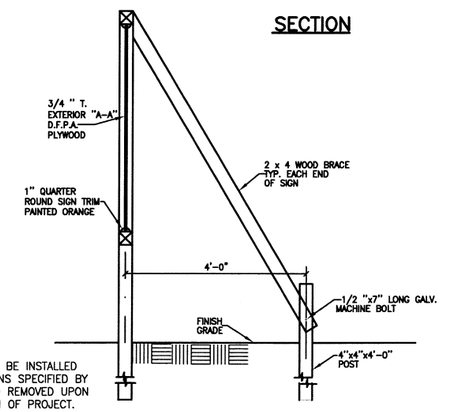
NO SCALE

NOTES:
1. PROPOSED WATER PIPE SHALL BE DUCTILE IRON UNLESS OTHERWISE SPECIFIED IN PLANS. ALL FITTINGS SHALL BE DUCTILE IRON (M.J.-P.E.) MEGALUG.
2. PROPOSED PIPING & FITTINGS ARE SYMMETRIC ABOUT CENTER OF PROP. SAN. SEW. OR ST. SEW. PIPE AND SHALL RETAIN TEST PRESSURES.
3. ALL THRUST BLOCKING SHALL BE SUBSIDIARY TO UNIT PRICE.
4. CROSSING OF SANITARY SEWER SHALL BE IN ACCORDANCE WITH T.N.R.C.C. REQUIREMENTS. (CHAPTER 317.13 APPENDIX E)

WATER MAIN LOWERING

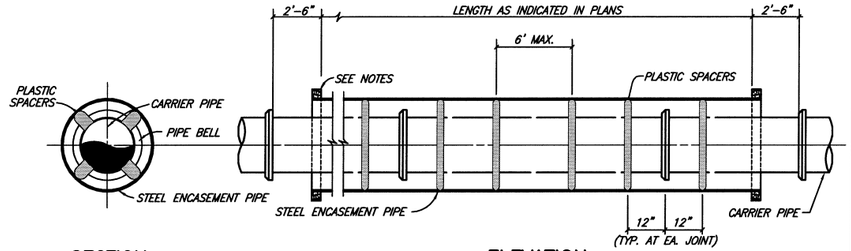
FRONT ELEVATION

SIGN SHALL BE INSTALLED AT LOCATIONS SPECIFIED BY OWNER AND REMOVED UPON COMPLETION OF PROJECT.



SIDE ELEVATION/SECTION

PROJECT SIGN DETAIL



SECTION

ELEVATION

ENCASED ROAD BORE

NO SCALE

NOTES:
1) PREFABRICATED PLASTIC SPACERS MUST BE APPROVED BY THE OWNER.
2) CONTRACTOR SHALL PROVIDE SUPPORT UNDER CARRIER PIPE TO HAVE MIN. 1" CLEARANCE BETWEEN PIPE BELL AND ENCASEMENT PIPE.
3) ENDS OF ENCASEMENT PIPE SHALL BE PLUGGED WITH BRICK AND MORTAR FOR ROADWAY CROSSINGS. PLUGS SHALL BE CONSTRUCTED WITH A WEEP HOLE.

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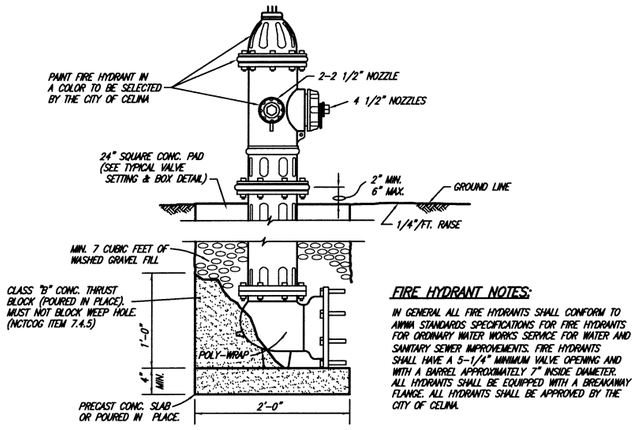
TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

MISCELLANEOUS DETAILS

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 15



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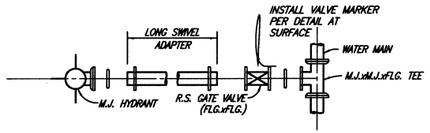
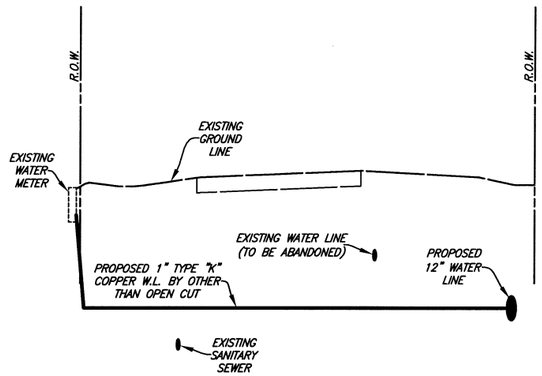


TYPICAL FIRE HYDRANT INSTALLATION

NO SCALE



TYPICAL WATER SERVICE BORING

NO SCALE

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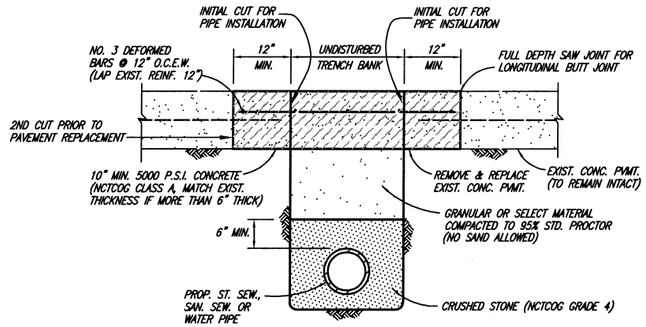
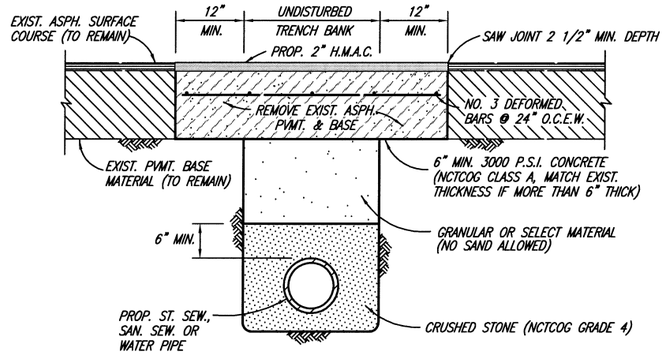
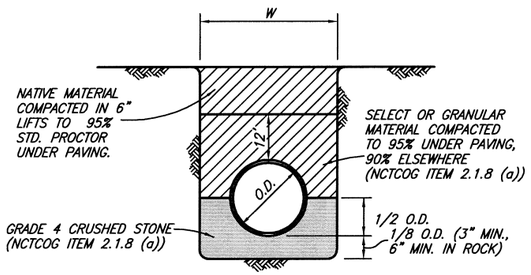


CONCRETE STREET REPAIR

NO SCALE

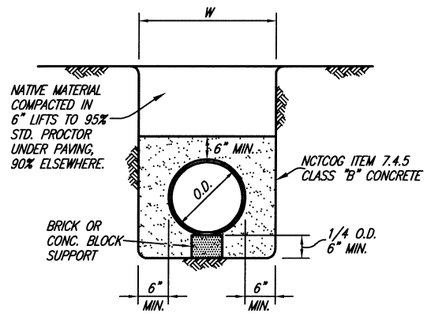


ASPHALT STREET REPAIR



CLASS B+ EMBEDMENT

STD PVC WATER



CLASS G EMBEDMENT

CONCRETE ENCASEMENT

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5/14/08

CITY OF CELINA, TEXAS

TEXAS COMMUNITY DEVELOPMENT BLOCK GRANT - WATERLINE REPLACEMENTS

MISCELLANEOUS DETAILS

BHC PROJECT NO. 2007-141

MAY 2008

SHEET NO. 16