CITY OF HASTINGS
MINNESOTA AVENUE PAVING IMPROVEMENTS
HASTINGS, NEBRASKA
PROJECT MAP-2016

LEGEND

- POWER POLE
- GUY WIRE
- GAS VALVE
- WATER VALVE
- FIRE HYDRANT
- PROPERTY CORNER
- SIGN
- MAILBOX
- BOLLARD
- WOOD POST
- GRATE INLET
- STORM SEWER MANHOLE
- SANITARY MANHOLE
- WATER LINE
- OVERHEAD POWER
- STORM PIPE
- SANITARY SEWER
- GAS LINE
- CONTOUR LINE
- BUSH
- DECIDUOUS TREE
- CONIFEROUS TREE
- CONCRETE
- BUILDING LINE

HASTINGS, NEBRASKA

NOT TO SCALE

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL INFORMATION
3	GENERAL INFORMATION
4	HORIZONTAL AND VERTICAL CONTROL
5	PLAN & PROFILE
6	PLAN & PROFILE
7	CONSTRUCTION & REMOVALS
8	CONSTRUCTION & REMOVALS
9	GEOMETRICS, JOINTS & GRADES
10	GEOMETRICS, JOINTS & GRADES
X1-X6	CROSS SECTIONS

NDOR STANDARD PLANS

443-R9	CURB INLET
920-R6	TRAFFIC CONTROL
942-R1	URBAN TRAFFIC CONTROL

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL 402.463.0240
FAX 402.463.0187
www.olssonassociates.com

PROFESSIONAL CIVIL ENGINEER
MATTHEW M. RIEF
E-10074
STATE OF NEBRASKA

REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

COVER SHEET

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

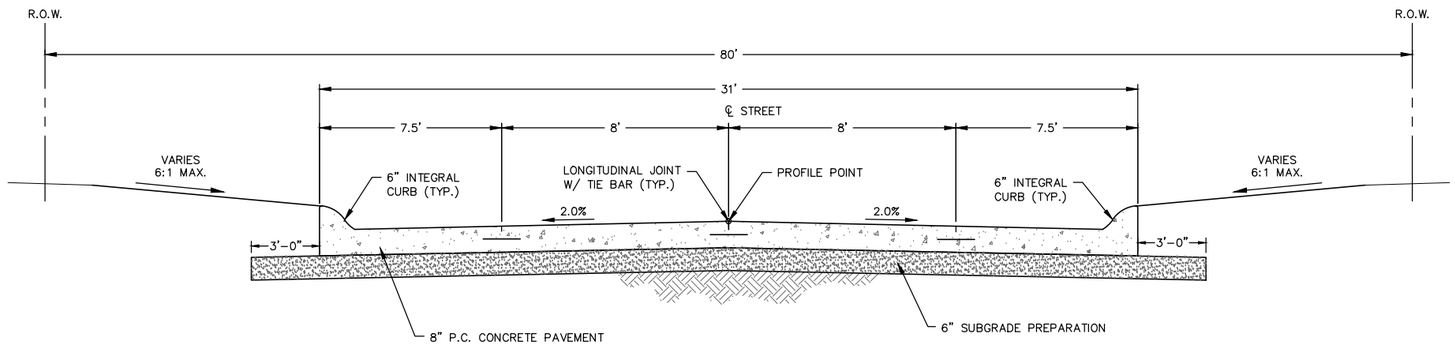
HASTINGS, NEBRASKA

2016

drawn by:	LH
checked by:	MMR
approved by:	MMR
QA/QC by:	BG
project no.:	2016-0831
drawing no.:	C_TTL_60831.dwg
date:	10-25-2016

SHEET
1 of 10

DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_TTL_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:11am XREFS: City of Hastings-HU-UPDATED 3-24-09 C_TBLK_60831



TYPICAL SECTION

NOT TO SCALE

ESTIMATED SUMMARY OF QUANTITIES - BID SECTION A		
ITEM DESCRIPTION	QUANTITY	UNIT
MOBILIZATION	1	LS
8" CONCRETE PAVEMENT	3168	SY
6" CONCRETE DRIVEWAY	175	SY
4" CONCRETE SIDEWALK	27	SY
DETECTABLE WARNING PANEL	8	SF
CRUSHED ROCK SURFACING	3	TON
STORM SEWER MANHOLE	1	EA
CURB INLET	4	EA
36" R.E. STORM SEWER PIPE	57	LF
24" R.E. STORM SEWER PIPE	188	LF
18" R.E. STORM SEWER PIPE	35	LF
CURB INLET SEDIMENT FILTER	4	EA
REMOVE AND RESET MAILBOX	6	EA
INSTALL BOLLARD	1	EA
ADJUST VALVE BOX TO GRADE	1	EA
REMOVE PAVEMENT	992	SY
REMOVE DRIVEWAY	203	SY
REMOVE SIDEWALK	26	SY
REMOVE STORM SEWER CURB INLET	2	EA
REMOVE STORM SEWER MANHOLE	2	EA
REMOVE STORM SEWER PIPE	191	LF
REMOVE DRIVEWAY CULVERT	2	EA
REMOVE TREE	1	EA
REMOVE WOOD LANDSCAPING	1	LS
TRAFFIC CONTROL	1	LS
EARTHWORK	1	LS
TEMPORARY EROSION CONTROL	100	LF
OVEREXCAVATION	500	CY
SEEDING	2000	SY

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF HASTINGS STANDARD SPECIFICATIONS AND STANDARD DRAWINGS.
2. THE LOCATION OF ALL AERIAL AND UNDERGROUND UTILITY FACILITIES MAY NOT BE INDICATED ON THESE PLANS. UNDERGROUND UTILITIES, WHETHER INDICATED OR NOT WILL BE LOCATED AND FLAGGED BY THE UTILITIES AT THE REQUEST OF THE CONTRACTOR. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITY FACILITIES UNTIL ALL SUCH FACILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES. THE EXCAVATION MUST BE ACCOMPLISHED WITH EXTREME CARE IN ORDER TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES.
3. CONTRACTOR SHALL PRESERVE ALL PROPERTY CORNER MONUMENTS OR RE-ESTABLISH THEM IF THEY ARE DISTURBED DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN AND PAY THE COST OF ALL REQUIRED PERMITS AND FEES.
5. THE CONTRACTOR SHALL USE EXTREME CAUTION IN THE AREA OF EXISTING MANHOLES, POWER POLES, AND EXISTING UTILITIES, AND SHALL BE RESPONSIBLE FOR DAMAGES.
6. THE CONTRACTOR SHALL PROTECT THE EXISTING SPRINKLER HEADS AND LINES. IF THERE IS A CONFLICT, THE CONTRACTOR SHALL CAP THE EXISTING SPRINKLER LINES AND THE SPRINKLER HEAD SHALL BE SALVAGED TO THE OWNER. SPRINKLER SYSTEM REPAIRS WILL BE COMPLETED BY OTHERS.
7. TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LUMP SUM PAY ITEM. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE MANUAL UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NDOR STANDARD PLANS 920 & 924. TRAFFIC CONTROL SHALL BE SUBMITTED TO THE CITY OF HASTINGS FOR APPROVAL PRIOR TO IMPLEMENTATION.
8. THE CONTRACTOR SHALL REMOVE AND SALVAGE ALL SIGNS TO THE CITY. THIS WORK SHALL BE CONSIDERED SUBSIDIARY.
9. SAW CUTTING FOR PAVEMENT REMOVAL SHALL BE FULL DEPTH AND SHALL BE SUBSIDIARY TO PAVEMENT REMOVAL. REMOVAL SHALL OCCUR AT EXISTING JOINTS WHERE POSSIBLE.
10. PRIOR TO PAVING, THE TOP 6" OF SUBGRADE IN ALL AREAS TO RECEIVE PAVEMENT SHALL BE SCARIFIED AND RECOMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE TO +3%. SUBGRADE PREPARATION SHALL BE SUBSIDIARY TO CONCRETE PAVEMENT.
11. DISPOSAL OF EXCESS DIRT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. THE MAXIMUM JOINT SPACING FOR 8" CONCRETE PAVING SHALL BE 12' UNLESS OTHERWISE NOTED.
13. THE MAXIMUM JOINT SPACING FOR 6" CONCRETE DRIVEWAYS SHALL BE 10' UNLESS OTHERWISE NOTED.
14. THE MAXIMUM JOINT SPACING FOR 4" CONCRETE SIDEWALKS SHALL BE THE WIDTH OF THE SIDEWALK UNLESS OTHERWISE NOTED.
15. CONTRACTOR SHALL MATCH PROPOSED JOINTS TO EXISTING JOINTS WHERE POSSIBLE.
16. ALL 8" CONCRETE PAVEMENT AND DRIVEWAYS SHALL BE NDOR CLASS 47B-3500 AND SHALL USE TYPE 1P CEMENT AND HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI.
17. ALL CONCRETE SIDEWALKS SHALL BE NDOR CLASS BX-3000 AND SHALL USE TYPE 1P CEMENT AND HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
18. ALL PAVEMENT SHALL HAVE A BURLAP DRAG FINISH AND ALL SIDEWALKS AND DRIVEWAYS SHALL HAVE A LIGHT BROOM FINISH.
19. CONSTRUCTION OF ALL JOINTS INCLUDING DOWELS AND TIE BARS SHALL BE CONSIDERED SUBSIDIARY TO CONCRETE PAVEMENT.
20. THE STORM SEWER TRENCHES SHALL BE BACKFILLED, MECHANICALLY TAMPED AND TESTED. BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY UNDER FUTURE PAVED AREAS AND 92% UNDER TURF AREAS.
21. PIPE BEDDING SHALL BE SUBSIDIARY TO PIPE INSTALLATION.
22. CAST IRON RINGS, COVERS, FRAMES AND GRATES FOR STORM SEWER STRUCTURES WILL NOT BE PAID SEPARATELY.
23. THE CONTRACTOR SHALL PROVIDE INLET PROTECTION TO PREVENT SEDIMENT FROM ENTERING THE INLETS.
24. THE CITY SHALL DEVELOP STORM WATER POLLUTION PREVENTION PLAN AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS IMPLEMENTATION.
25. CONSTRUCTION STAKING SHALL BE COMPLETED BY THE CITY.
26. PRIOR TO MOVING OFF SITE THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING REQUESTING A FINAL WALK-THROUGH OF THE PROJECT.

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL. 402.463.0240
FAX. 402.463.0187
www.olssonassociates.com

PROFESSIONAL CIVIL ENGINEER
MATTHEW M. RIEF
E-10074
STATE OF NEBRASKA

REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

GENERAL INFORMATION

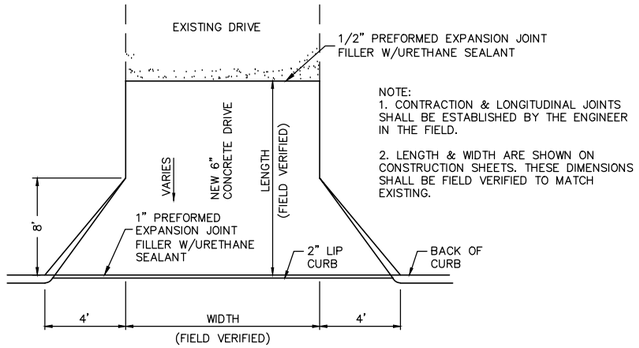
MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

2016

HASTINGS, NEBRASKA

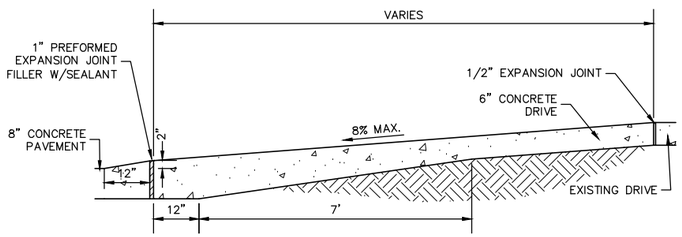
drawn by:	LH
checked by:	MMR
approved by:	MMR
QA/QC by:	BG
project no.:	2016-0831
drawing no.:	C_GEN_60831.dwg
date:	10-25-2016

DWG: C:\Temp\AcPublish_4936\C_GEN_60831.dwg USER: lhusted
DATE: Oct 27, 2016 9:57am XREFS: C_TBLK_60831



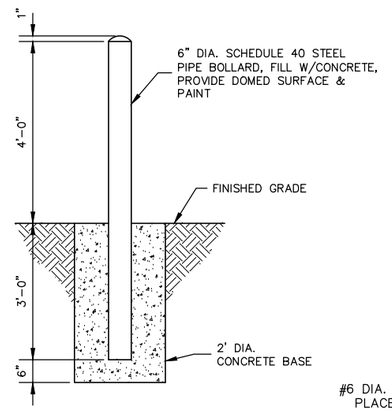
NOTE:
1. CONTRACTION & LONGITUDINAL JOINTS SHALL BE ESTABLISHED BY THE ENGINEER IN THE FIELD.

2. LENGTH & WIDTH ARE SHOWN ON CONSTRUCTION SHEETS. THESE DIMENSIONS SHALL BE FIELD VERIFIED TO MATCH EXISTING.



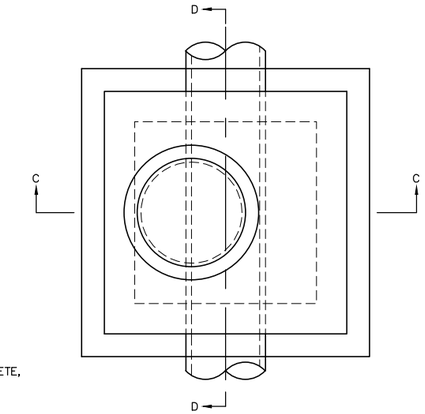
TYPICAL CURB DROP AND DRIVE REPLACEMENT

NOT TO SCALE



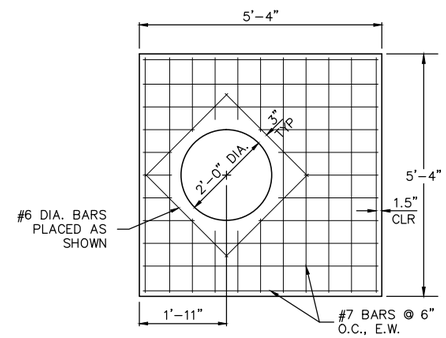
BOLLARD DETAIL

NOT TO SCALE



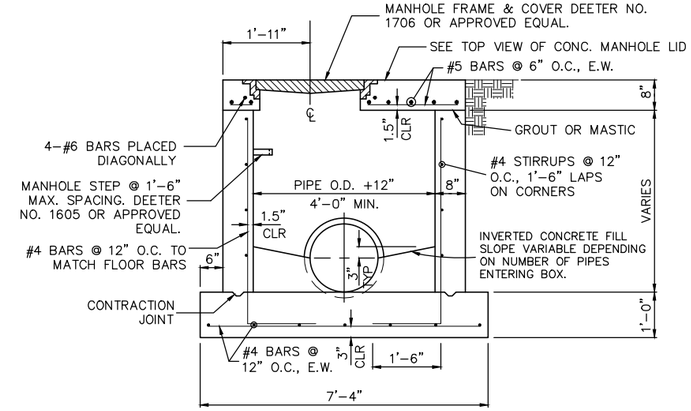
STORM SEWER MANHOLE DETAIL

NOT TO SCALE



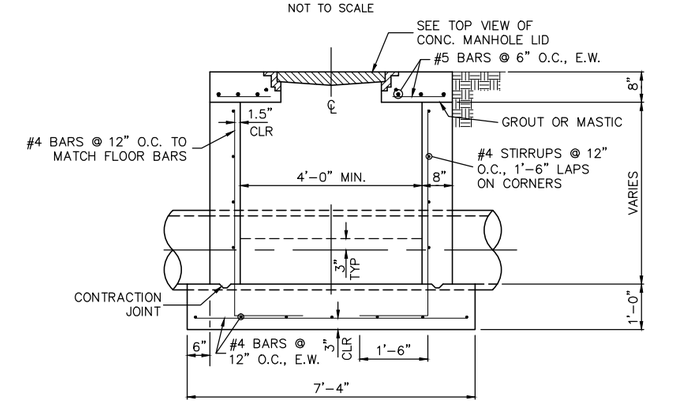
CONCRETE MANHOLE LID DETAIL

NOT TO SCALE



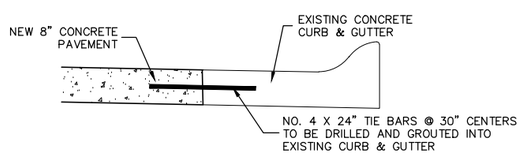
STORM SEWER MANHOLE – SECTION C–C

NOT TO SCALE



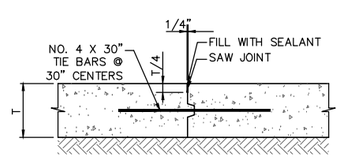
STORM SEWER MANHOLE – SECTION D–D

NOT TO SCALE



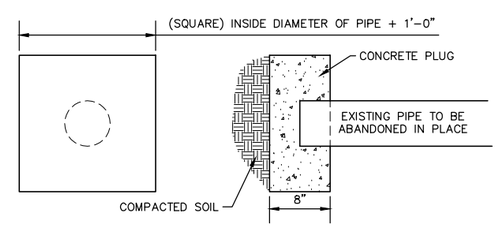
CONSTRUCTION JOINT – NEW TO EXISTING CURB & GUTTER

NOT TO SCALE



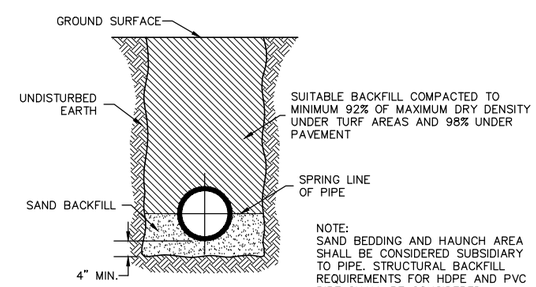
CONSTRUCTION JOINT

NOT TO SCALE



CONCRETE PLUG

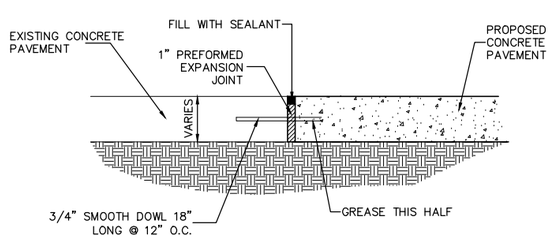
NOT TO SCALE



NOTE:
SAND BEDDING AND HAUNCH AREA SHALL BE CONSIDERED SUBSIDIARY TO PIPE. STRUCTURAL BACKFILL REQUIREMENTS FOR HDPE AND PVC PIPE SHALL BE CONSIDERED SUBSIDIARY TO THE PIPE.

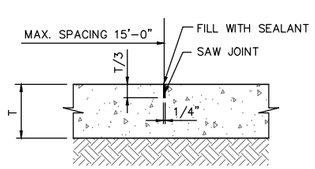
TRENCH BACKFILL

NOT TO SCALE



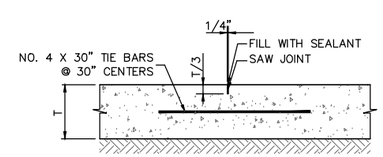
EXPANSION JOINT – NEW TO EXISTING CONCRETE

NOT TO SCALE



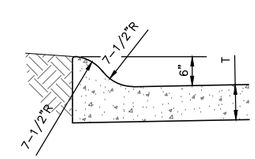
TYPICAL CONTRACTION JOINT

NOT TO SCALE



LONGITUDINAL JOINT

NOT TO SCALE



INTEGRAL CURB

NOT TO SCALE

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL. 402.463.0240
FAX. 402.463.0187
www.olssonassociates.com

REV. NO. | DATE | REVISIONS DESCRIPTION

REVISIONS

GENERAL INFORMATION

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

2016

HASTINGS, NEBRASKA

drawn by: LH
checked by: MMR
approved by: MMR
QA/QC by: BG
project no.: 2016-0831
drawing no.: C_GEN_60831.dwg
date: 10-25-2016

SHEET 3 of 10

DWG: C:\Temp\AcPublish_4936\C_GEN_60831.dwg USER: lhusted
DATE: Oct 27, 2016 9:57am XREFS: C_TBLK_60831

ALIGNMENT CONTROL

1. PI STA. 1+00
   N 282,966.47
   E 2,089,206.03
2. PI STA. 6+00
   Δ 00°54'00" LT.
   N 283466.45
   E 2089201.84
3. PI STA. 9+00
   N 283,766.37
   E 2,089,194.61

BENCHMARKS

BENCHMARK "A"
BOLT BY ARROWHEAD ON TOP OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 13TH STREET & MINNESOTA AVENUE.
ELEVATION: 1917.15

BENCHMARK "B"
BOLT BY ARROWHEAD ON TOP OF FIRE HYDRANT ON THE EAST SIDE OF MINNESOTA AVENUE BETWEEN 13TH STREET & 14TH STREET.
ELEVATION: 1917.66

BENCHMARK "C"
"X" ON BOLT ON TOP OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 14TH STREET & MINNESOTA AVENUE.
ELEVATION: 1920.56

CONTROL POINTS

CONTROL PT. 4
PIPE
N 283,041.74
E 2,089,243.87
ELEV. 1915.67

CONTROL PT. 5
PIPE
N 283,101.67
E 2,089,243.48
ELEV. 1914.31

CONTROL PT. 6
PIPE
N 283,702.31
E 2,089,238.44
ELEV. 1918.60

CONTROL PT. 10
PIPE
N 283,046.48
E 2,089,405.66

CONTROL PT. 15
PIPE
N 283,045.40
E 2,089,368.81

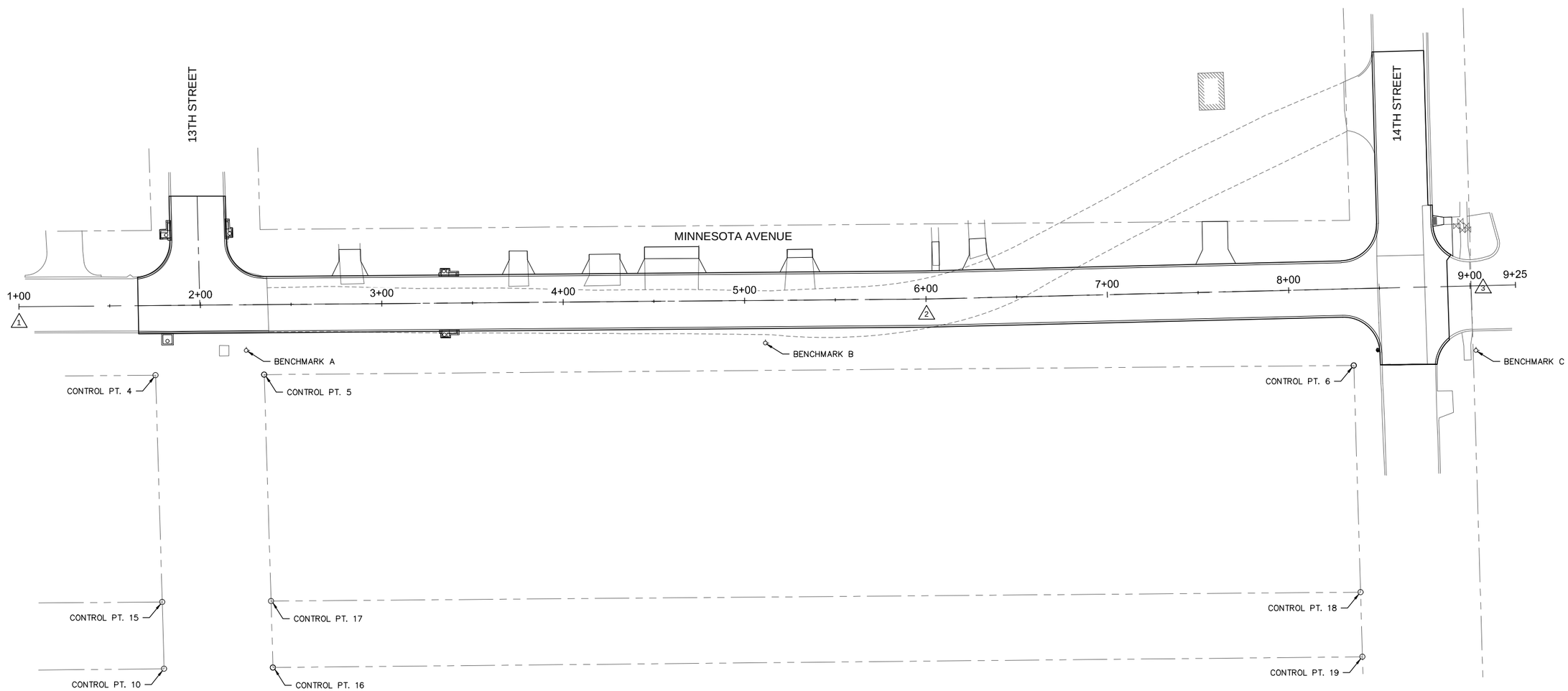
CONTROL PT. 16
PIPE
N 283,106.48
E 2,089,405.02

CONTROL PT. 17
PIPE
N 283,105.39
E 2,089,368.32

CONTROL PT. 18
PIPE
N 283,706.01
E 2,089,363.42

CONTROL PT. 19
PIPE
N 283,707.06
E 2,089,399.07

N
0' 15' 30' 60'
SCALE IN FEET



OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL. 402.463.0240
FAX. 402.463.0187
www.olssonassociates.com

PROFESSIONAL CIVIL ENGINEER
LICENSED
RIEF
E-10074
STATE OF NEBRASKA

REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

HORIZONTAL AND VERTICAL CONTROL

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

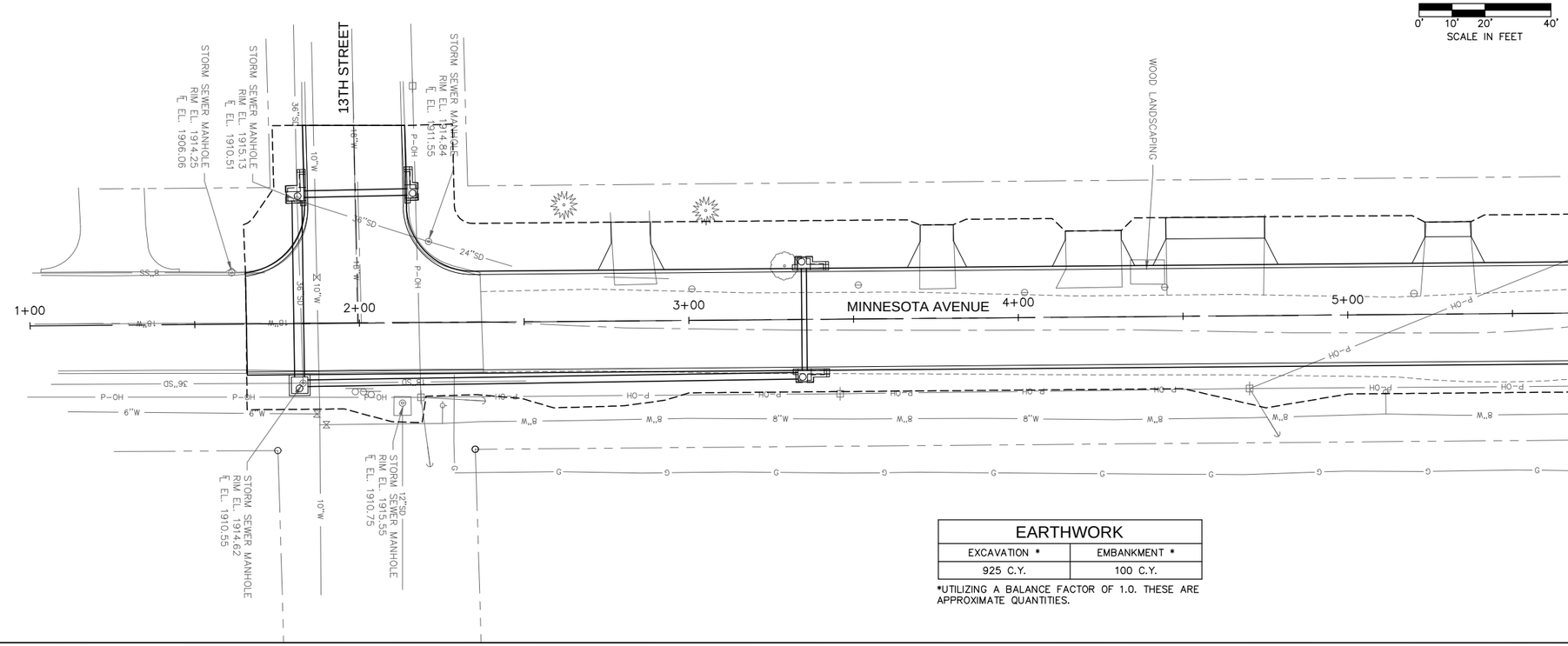
HASTINGS, NEBRASKA

2016

drawn by:	LH
checked by:	MMR
approved by:	MMR
QA/QC by:	BG
project no.:	2016-0831
drawing no.:	C_HRZ_60831.dwg
date:	10-25-2016

SHEET
4 of 10

DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_HRZ_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:14am XREFS: C_TBLK_60831 V_XTOPO_60831 C_PBASE_60831



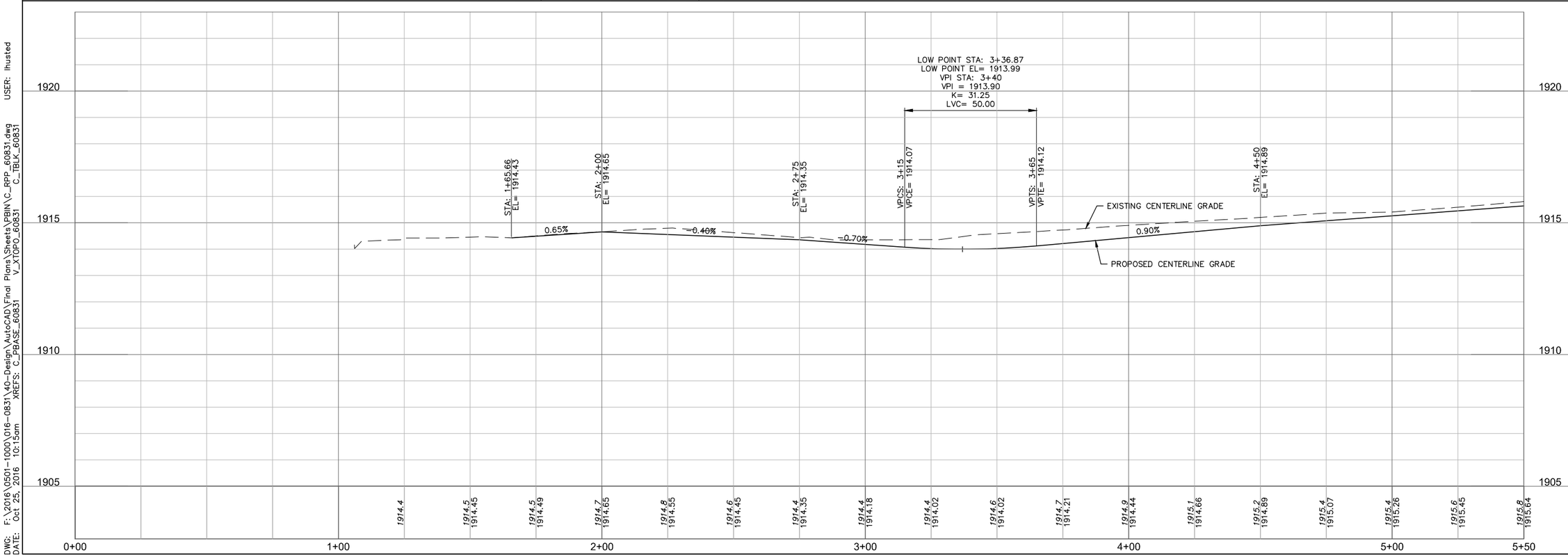
N

0' 10' 20' 40'

SCALE IN FEET

EARTHWORK	
EXCAVATION *	EMBANKMENT *
925 C.Y.	100 C.Y.

*UTILIZING A BALANCE FACTOR OF 1.0. THESE ARE APPROXIMATE QUANTITIES.



OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL. 402.463.0240
FAX. 402.463.0187
www.olssonassociates.com

PROFESSIONAL CIVIL ENGINEER
REIF
E-10074
STATE OF NEBRASKA

REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

MINNESOTA AVENUE PLAN & PROFILE
STA. 1+00 TO 5+50

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

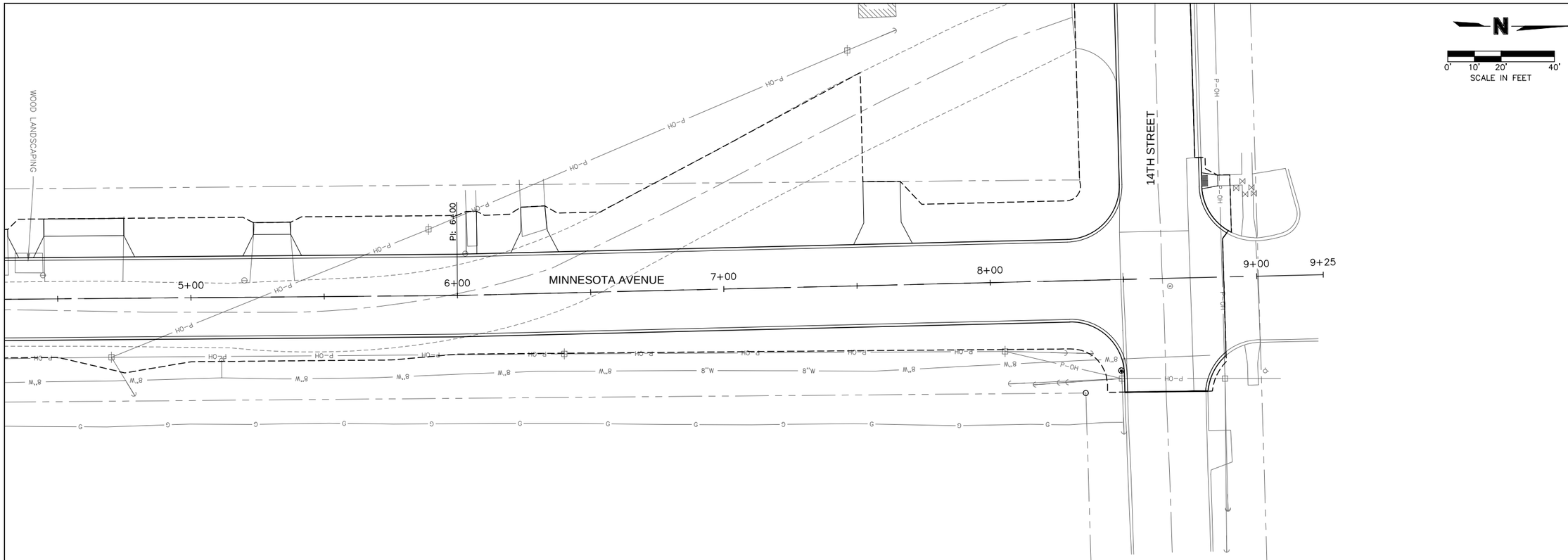
2016

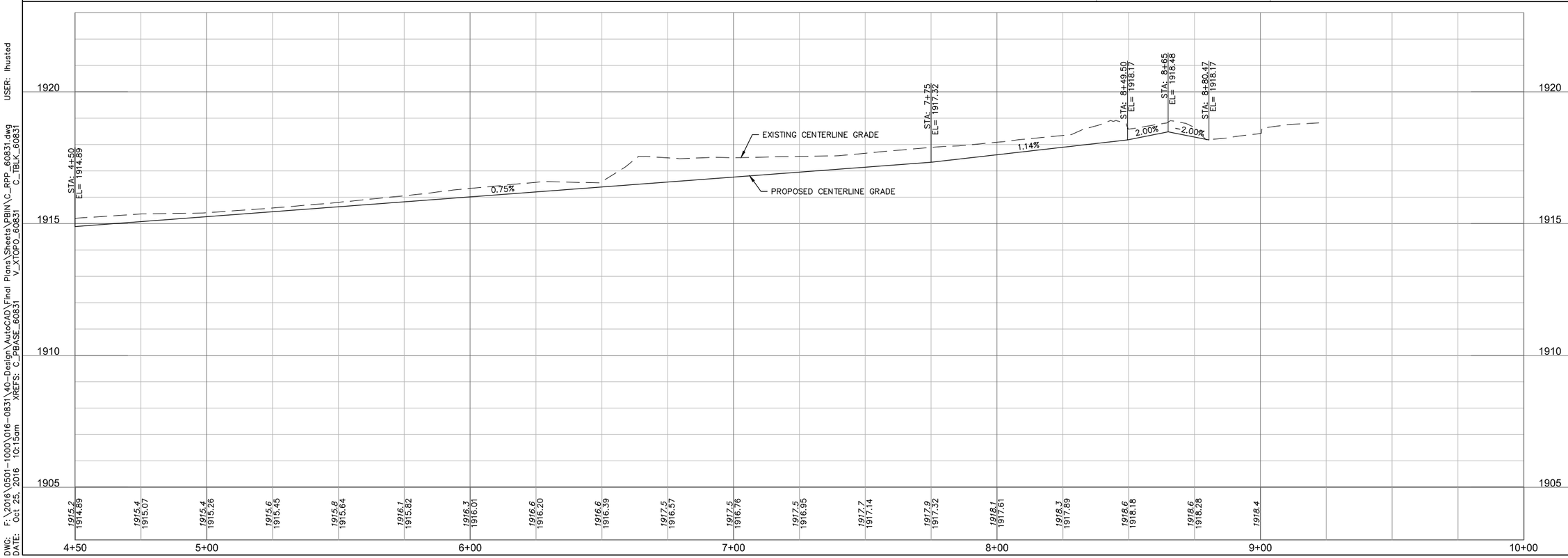
HASTINGS, NEBRASKA

drawn by: LH
checked by: MMR
approved by: MMR
QA/QC by: BG
project no.: 2016-0831
drawing no.: C_RPP_60831.dwg
date: 10-25-2016

SHEET
5 of 10

DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_RPP_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:15am XREFS: C_PBASE_60831 V_XTOPO_60831 C_TBLK_60831





OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL. 402.463.0240
FAX. 402.463.0187
www.olssonassociates.com

PROFESSIONAL CIVIL ENGINEER
REF
E-10074
STATE OF NEBRASKA

REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

MINNESOTA AVENUE PLAN & PROFILE
STA. 1+00 TO 5+50

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

HASTINGS, NEBRASKA

2016

drawn by:	LH
checked by:	MMR
approved by:	MMR
QA/QC by:	BG
project no.:	2016-0831
drawing no.:	C_RPP_60831.dwg
date:	10-25-2016

SHEET
6 of 10

DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_RPP_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:15am XREFS: C_PBASE_60831 V_XTOPO_60831 C_TBLK_60831

BUILD 8" CONCRETE PAVEMENT		
STA. TO STA.	SIDE	SQ. YDS.
1+66 – 5+50	LT & RT	1497

BUILD 6" CONCRETE DRIVEWAY		
STA. TO STA.	SIDE	SQ. YDS.
2+82	LT	23
3+76	LT	18
4+23	LT	24
4+60	LT	31
5+31	LT	16

CRUSHED ROCK SURFACING		
STA.	SIDE	TON
4+60	LT	2
5+31	LT	1

BUILD STORM SEWER MANHOLE					
NO.	STA.	SIDE	RIM ELEV.	℄ ELEV.	DEPTH
1	1+82	18.67' RT	1914.75	1910.40	4.35'

BUILD CURB INLET						
NO.	STA.	SIDE	RIM ELEV.	℄ ELEV.	DEPTH	Y
1	1+84	39.3' LT	1914.99	1910.51	4.48'	8'–0"
2	2+15	39.8' LT	1914.99	1911.56	3.43'	8'–0"
3	3+35	15.5' RT	1914.20	1910.78	3.42'	8'–0"
4	3+35	15.5' LT	1914.20	1910.87	3.33'	8'–0"

BUILD STORM SEWER PIPE					
NO.	SIZE	LENGTH	SLOPE	TYPE	DESCRIPTION
1	36" R.E.	57'	0.25%	RCP	MANHOLE 1 ℄=1910.40 TO CURB INLET 1 ℄=1910.51
2	24" R.E.	35'	3.00%	RCP	CURB INLET 1 ℄=1910.51 TO CURB INLET 2 ℄=1911.56
3	24" R.E.	153'	0.25%	RCP	MANHOLE 1 ℄=1910.40 TO CURB INLET 3 ℄=1910.78
4	18" R.E.	35'	0.25%	RCP	CURB INLET 3 ℄=1910.78 TO CURB INLET 4 ℄=1910.87

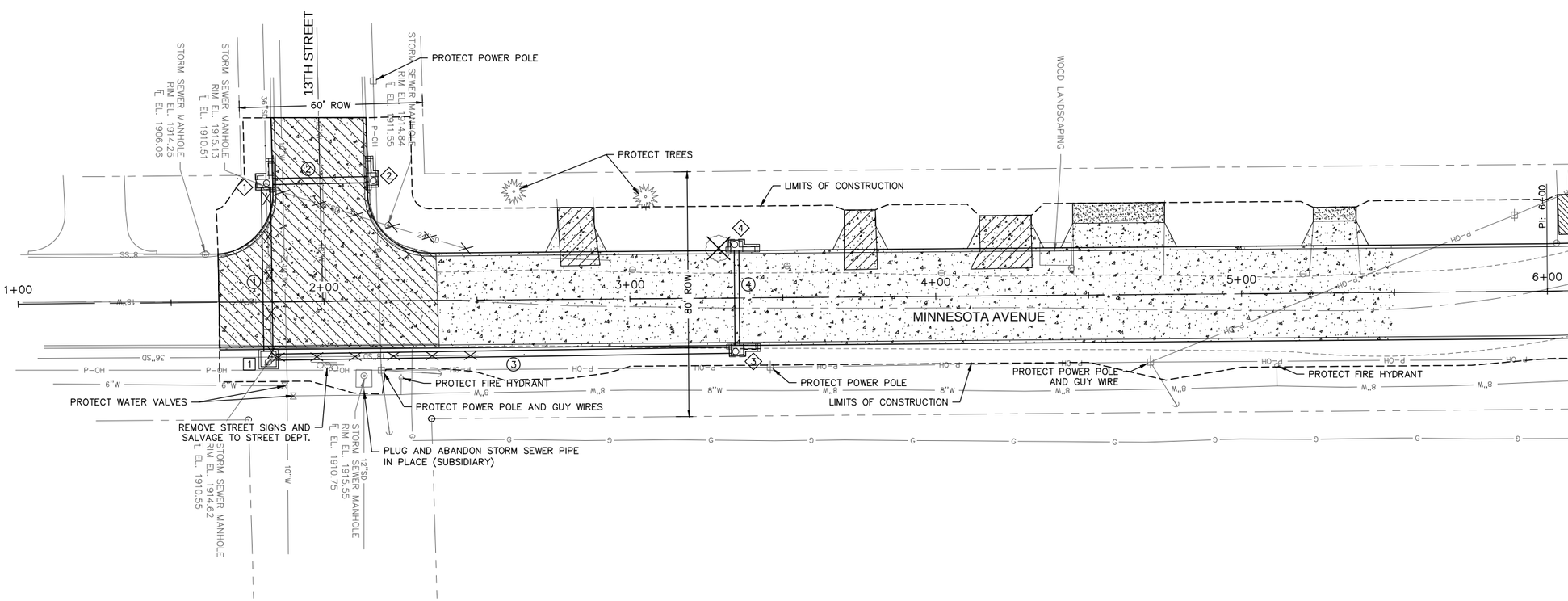
CURB INLET SEDIMENT FILTER		
STA.	SIDE	EA
1+84	39.3' LT	1
2+15	39.8' LT	1
3+35	15.5' RT	1
3+35	15.5' LT	1

REMOVE & RESET MAILBOX		
STA.	SIDE	EA
3+01	9' LT	1
3+51	10' LT	1
4+02	8' LT	1
4+45	9' LT	1
5+20	6' LT	1

ADJUST VALVE BOX TO GRADE		
STA.	SIDE	EA.
1+87	14' LT	1

N

0' 10' 20' 40'
SCALE IN FEET



REMOVE PAVEMENT		
STA. TO STA.	SIDE	SQ. YDS.
1+66 – 2+37	LT & RT	418

REMOVE DRIVEWAY		
STA.	SIDE	SQ. YDS.
2+82	LT	26
3+76	LT	23
4+23	LT	34

REMOVE DRIVEWAY CULVERT		
STA.	SIDE	EA
2+82	LT	1

REMOVE CURB INLET		
STA.	SIDE	EA
1+83	38' LT	1
2+21	25' LT	1

REMOVE STORM SEWER MANHOLE		
STA.	SIDE	EA
1+83	18' RT.	1
2+13	24' RT	1

REMOVE STORM SEWER PIPE		
STA.	SIDE	LF
1+83	LT & RT	56
1+83 – 2+46	LT	68
1+83 – 2+50	RT	67

REMOVE TREE		
STA.	SIDE	EA
3+29	16' LT	1

REMOVE WOOD LANDSCAPING*		
STA.	SIDE	LS
4+34 – 4+44	10' LT	1

* SALVAGE TO OWNER

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL. 402.463.0240
FAX. 402.463.0187
www.olssonassociates.com

REGISTERED PROFESSIONAL CIVIL ENGINEER
MICHAEL W. RIEF
E-10074
STATE OF NEBRASKA

REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

CONSTRUCTION AND REMOVALS
STA. 1+00 TO 5+50

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

HASTINGS, NEBRASKA

2016

drawn by:	LH
checked by:	MMR
approved by:	MMR
QA/QC by:	BG
project no.:	2016-0831
drawing no.:	C_CON_60831.dwg
date:	10-25-2016

SHEET
7 of 10

DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_CON_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:17am XREFS: C_PBASE_60831 V_XTOPO_60831 C_TBLK_60831

BUILD 8" CONCRETE PAVEMENT		
STA. TO STA.	SIDE	SQ. YDS.
5+50 – 8+49	LT & RT	1051
8+49 – 8+80	LT & RT	573
8+80 – 8+88	LT & RT	47

BUILD 6" CONCRETE DRIVEWAY		
STA.	SIDE	SQ. YDS.
6+29	LT	23
7+60	LT	40

BUILD 4" CONCRETE SIDEWALK		
STA.	SIDE	SQ. YDS.
6+06	LT	7
8+85	LT	20

BUILD CURB RAMP		
STA.	SIDE	WARNING PANELS (SF)
8+80	36' LT	8

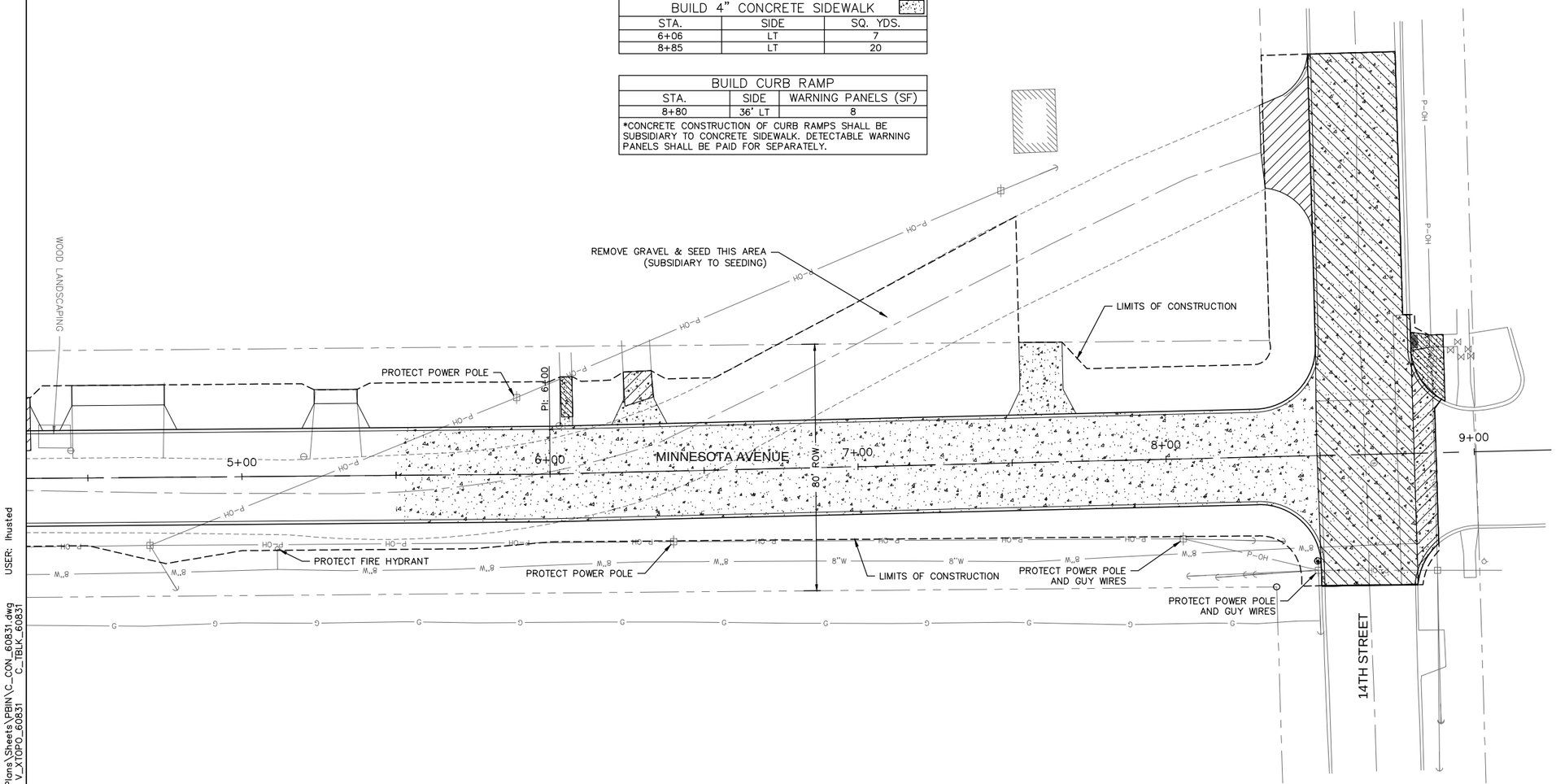
*CONCRETE CONSTRUCTION OF CURB RAMPS SHALL BE SUBSIDIARY TO CONCRETE SIDEWALK. DETECTABLE WARNING PANELS SHALL BE PAID FOR SEPARATELY.

REMOVE & RESET MAILBOX		
STA.	SIDE	EA
6+03	16' LT	1

INSTALL BOLLARD		
STA.	SIDE	EA
8+48.5	34' RT	1

N

0' 10' 20' 40'
SCALE IN FEET



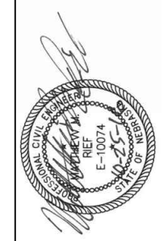
REMOVE PAVEMENT		
STA. TO STA.	SIDE	SQ. YDS.
8+49 – 8+80	LT & RT	574

REMOVE DRIVEWAY CULVERT		
STA.	SIDE	EA
6+29	LT	1

REMOVE DRIVEWAY		
STA. TO STA.	SIDE	SQ. YDS.
6+29	LT	11
8+49	102' LT	62
8+80 – 8+88	LT & RT	47

REMOVE SIDEWALK		
STA. TO STA.	SIDE	SQ. YDS.
6+06	LT	6
8+85	LT	20

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL 402.463.0240
FAX 402.463.0187
www.olssonassociates.com



REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

CONSTRUCTION AND REMOVALS
STA. 5+50 TO 9+00

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

HASTINGS, NEBRASKA

2016

drawn by:	LH
checked by:	MMR
approved by:	MMR
QA/QC by:	BG
project no.:	2016-0831
drawing no.:	C_CON_60831.dwg
date:	10-25-2016

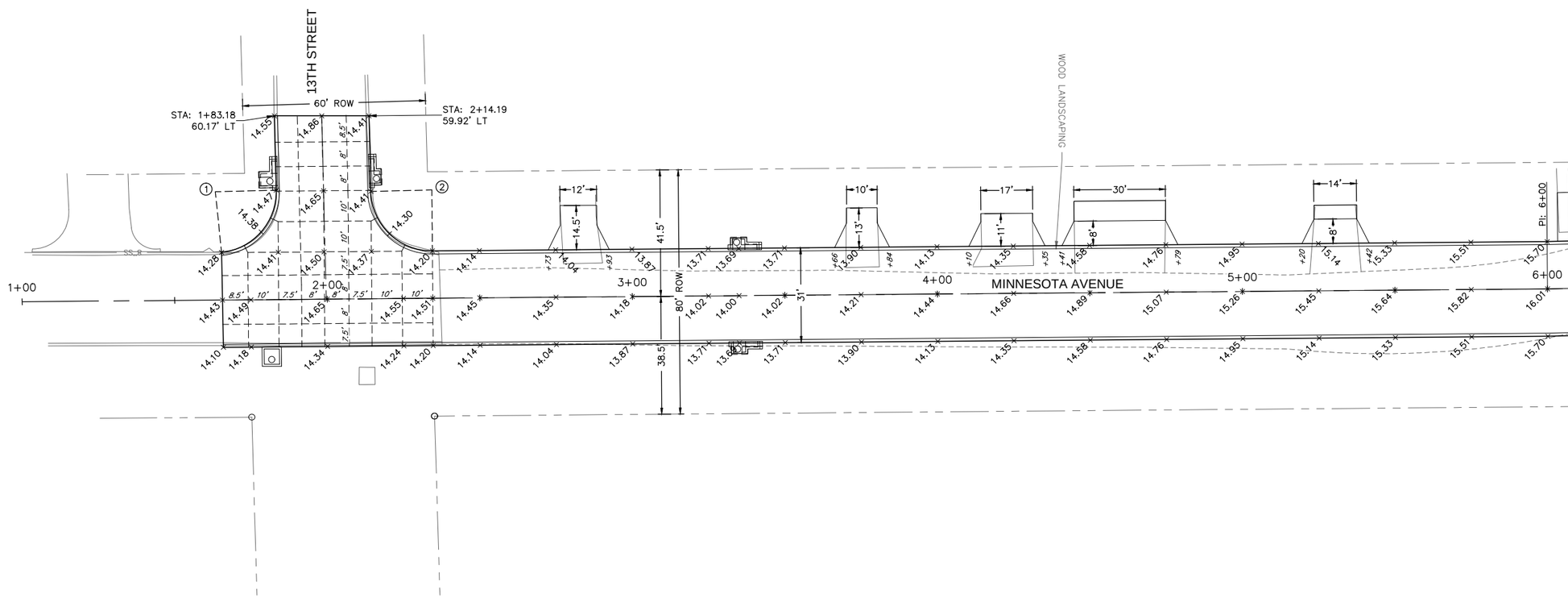
SHEET
8 of 10

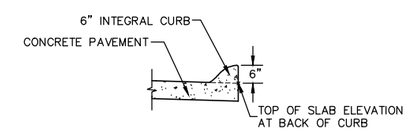
DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_CON_60831.dwg
DATE: Oct 25, 2016 10:17am XREFS: C_PBASE_60831 V_XTOPO_60831 C_TBLK_60831
USER: lhusted

① 20.0' RADIUS
R.P. STA: 1+63.58 – 35.50' LT.
P.C. STA: 1+65.50 – 15.59' LT.
P.T. STA: 1+83.58 – 35.83' LT.

② 20.0' RADIUS
R.P. STA: 2+34.59 – 35.50' LT.
P.C. STA: 2+34.59 – 15.50' LT.
P.T. STA: 2+14.60 – 35.17' LT.

N
0' 10' 20' 40'
SCALE IN FEET





NOTE: ALL GRADES ARE TOP OF SLAB UNLESS NOTED OTHERWISE. ALL DIMENSIONS AND OFFSETS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE. DATUM EL.=1900.00

ELEVATION DETAIL

NOT TO SCALE

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL. 402.463.0240
FAX. 402.463.0187
www.olssonassociates.com

PROFESSIONAL CIVIL ENGINEER
REF
E-10074
STATE OF NEBRASKA

REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

GEOMETRICS, JOINTS & GRADES
STA. 1+00 TO 5+50

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

2016

HASTINGS, NEBRASKA

drawn by:	LH
checked by:	MMR
approved by:	MMR
QA/QC by:	BG
project no.:	2016-0831
drawing no.:	C_GEO_60831.dwg
date:	10-25-2016

SHEET
9 of 10

DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_GEO_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:19am XREFS: C_PBASE_60831 V_XTOPO_60831 C_TBLK_60831

① 20.0' RADIUS
R.P. STA: 8+28.85 – 35.50' LT.
P.C. STA: 8+28.85 – 15.50' LT.
P.T. STA: 8+48.84 – 35.87' LT.

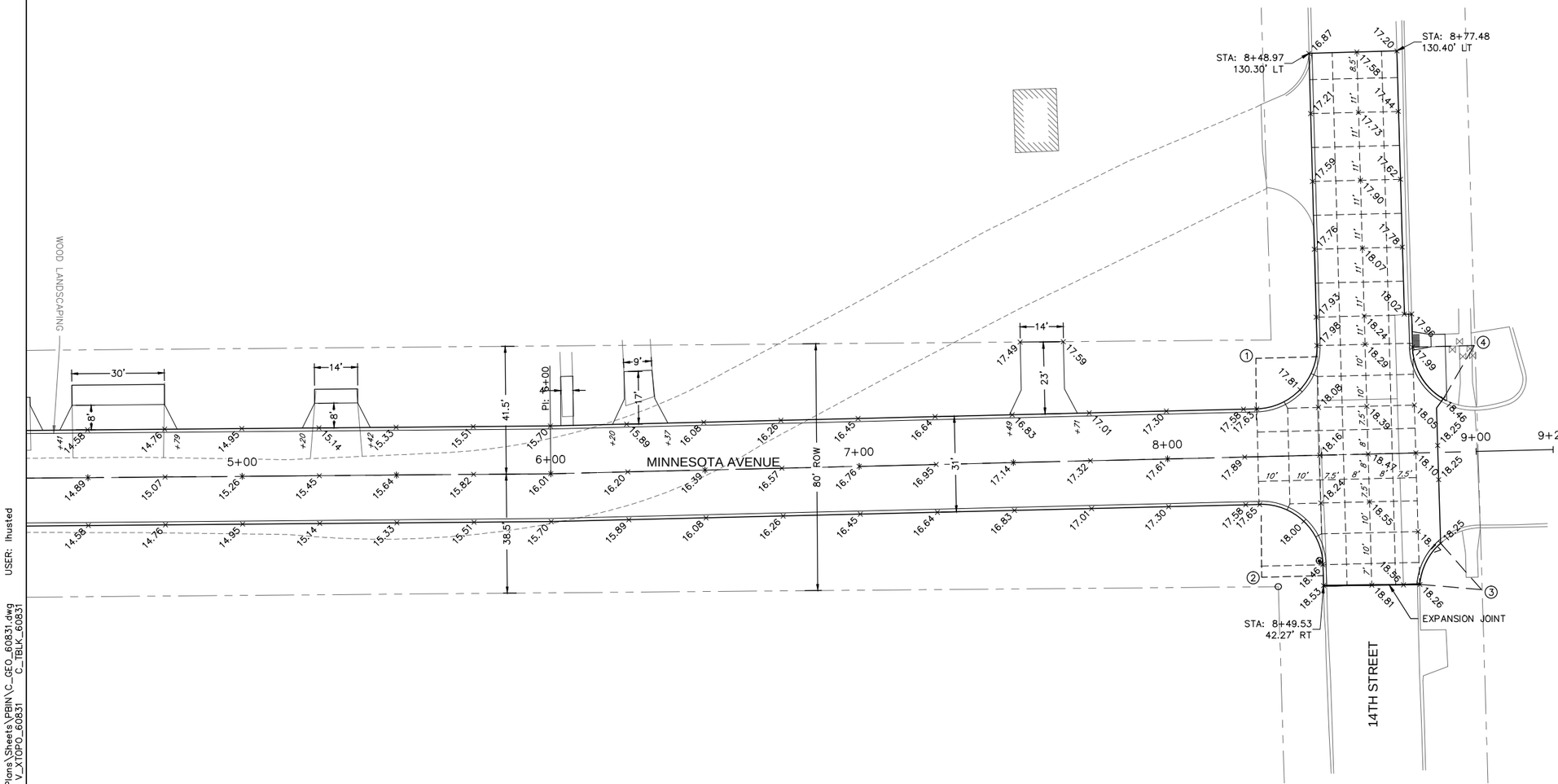
② 20.0' RADIUS
R.P. STA: 8+30.15 – 35.50' RT.
P.C. STA: 8+30.15 – 15.50' RT.
P.T. STA: 8+50.15 – 35.13' RT.

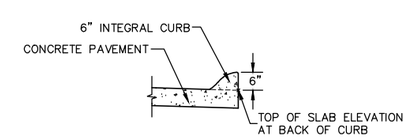
③ 20.0' RADIUS
R.P. STA: 9+00.69 – 44.83' RT.
P.C. STA: 8+80.81 – 42.66' RT.
P.T. STA: 8+87.81 – 29.52' RT.

④ 20.0' RADIUS
R.P. STA: 9+00.26 – 34.37' LT.
P.C. STA: 8+80.26 – 34.29' LT.
P.T. STA: 8+89.80 – 17.33' LT.

N

0' 10' 20' 40'
SCALE IN FEET





NOTE: ALL GRADES ARE TOP OF SLAB UNLESS NOTED OTHERWISE. ALL DIMENSIONS AND OFFSETS ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE. DATUM EL.=1900.00

ELEVATION DETAIL
NOT TO SCALE

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL 402.463.0240
FAX 402.463.0187
www.olssonassociates.com

PROFESSIONAL CIVIL ENGINEER
MATTHEW M. RIEF
E-10074
10-25-16
STATE OF NEBRASKA

REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

GEOMETRICS, JOINTS & GRADES
STA. 5+50 TO 9+00

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

HASTINGS, NEBRASKA

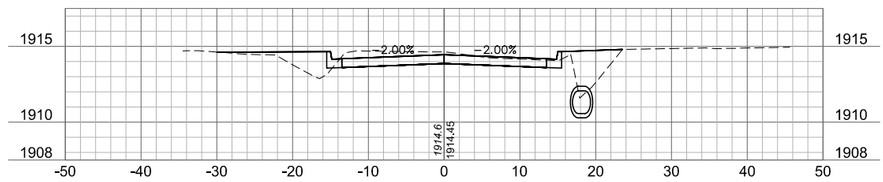
2016

drawn by:	LH
checked by:	MMR
approved by:	MMR
QA/QC by:	BG
project no.:	2016-0831
drawing no.:	C_GEO_60831.dwg
date:	10-25-2016

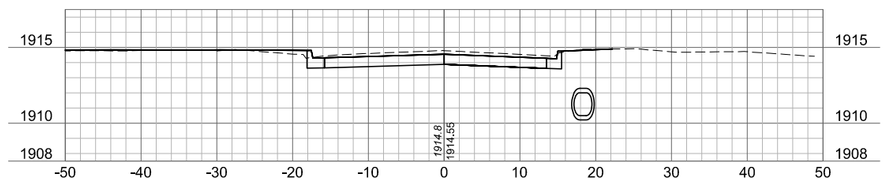
SHEET
10 of 10

DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_GEO_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:19am XREFS: C_PBASE_60831 V_XTOPO_60831 C_TBLK_60831

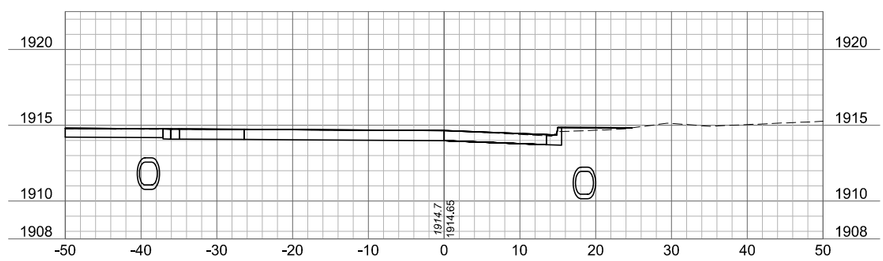
DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_XSC_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:21am XREFS: C_PCORR_60831 C_TBLK-XSC_60831



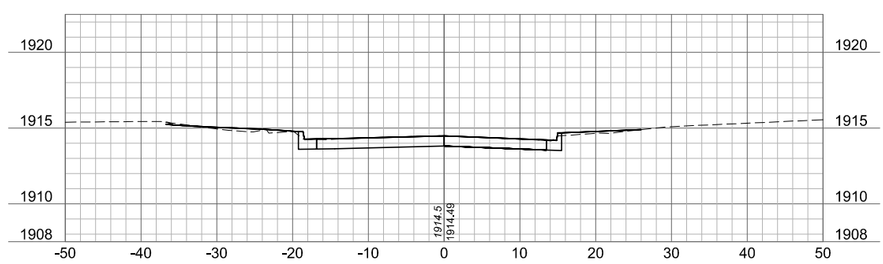
2+50



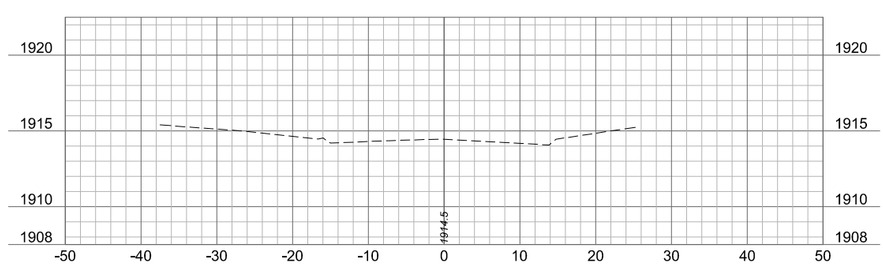
2+25



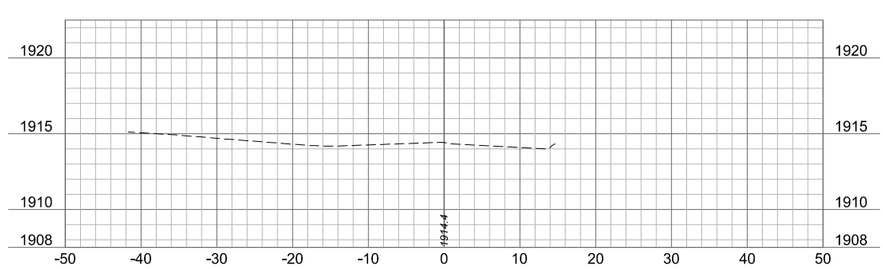
2+00



1+75



1+50



1+25

SHEET X1

drawn by: LH
checked by: MMR
approved by: MMR
QA/QC by: BG
project no.: 2016-0831
drawing no.: C_XSC_60831.dwg
date: 10-25-2016

MINNESOTA AVENUE CROSS SECTIONS
STA. 1+25 TO 2+50

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

HASTINGS, NEBRASKA 2016

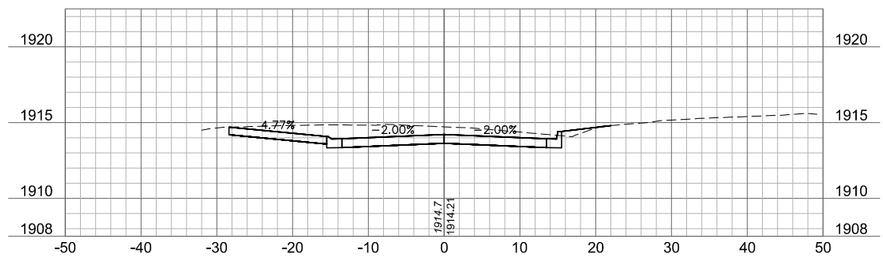
REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

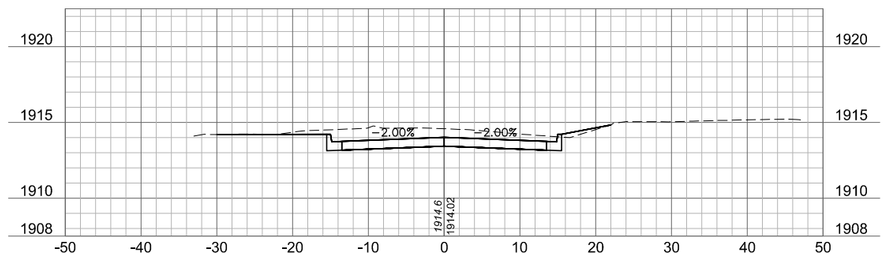
PROFESSIONAL CIVIL ENGINEER
MATTHEW M. RIEF
E-10074
10-25-16
STATE OF NEBRASKA

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL 402.463.0240
FAX 402.463.0187
www.olssonassociates.com

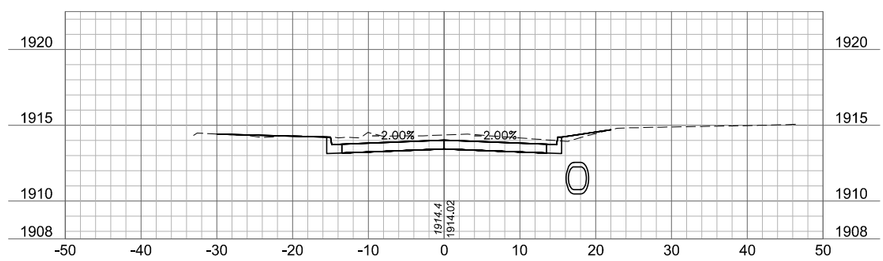
DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_XSC_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:21am XREFS: C_PCORR_60831 C_TBLK-XSC_60831



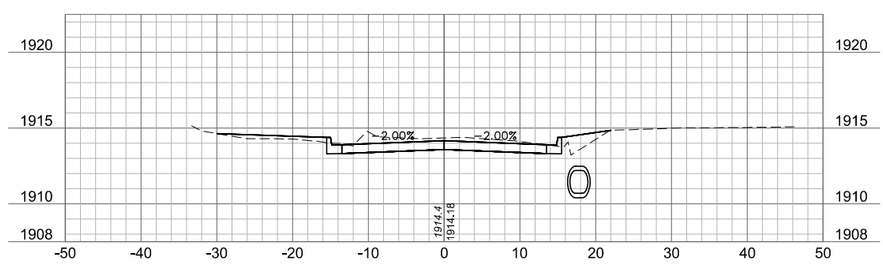
3+75



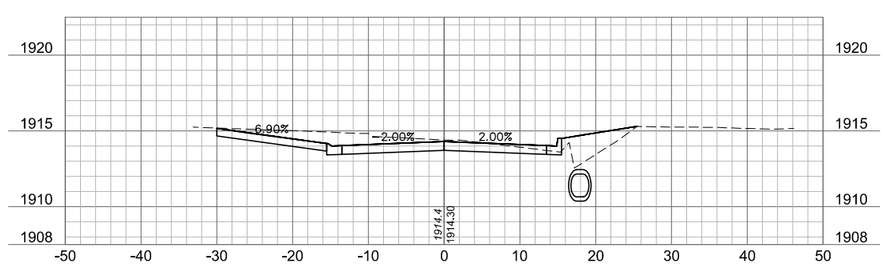
3+50



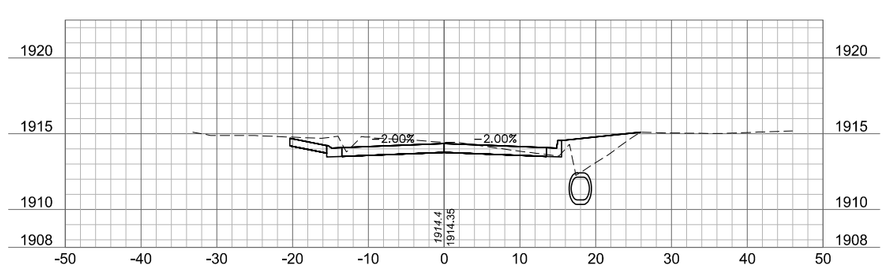
3+25



3+00



2+83



2+75

SHEET X2

drawn by: LH
checked by: MMR
approved by: MMR
QA/QC by: BG
project no.: 2016-0831
drawing no.: C_XSC_60831.dwg
date: 10-25-2016

MINNESOTA AVENUE CROSS SECTIONS
STA. 2+75 TO 3+75

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

HASTINGS, NEBRASKA 2016

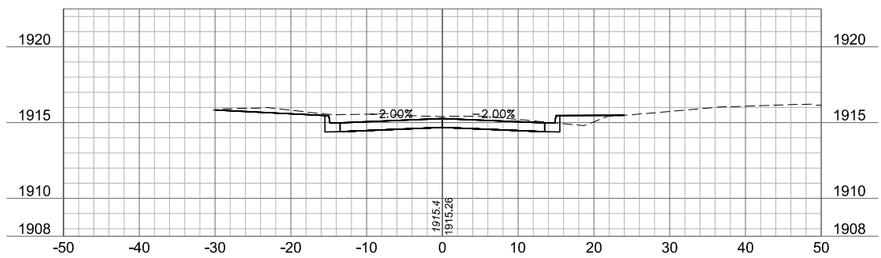
REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

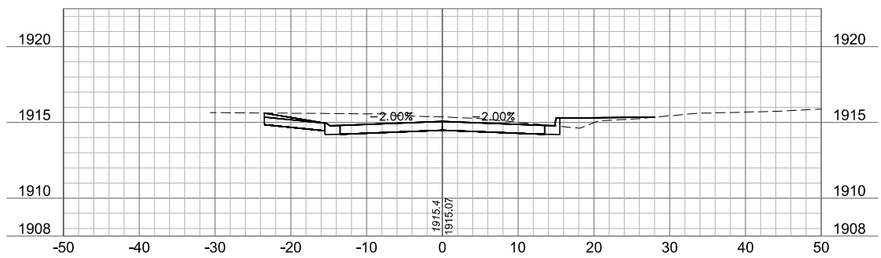
PROFESSIONAL CIVIL ENGINEER
MATTHEW M. RIEF
E-10074
10-25-16
STATE OF NEBRASKA

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL 402.463.0240
FAX 402.463.0187
www.olssonassociates.com

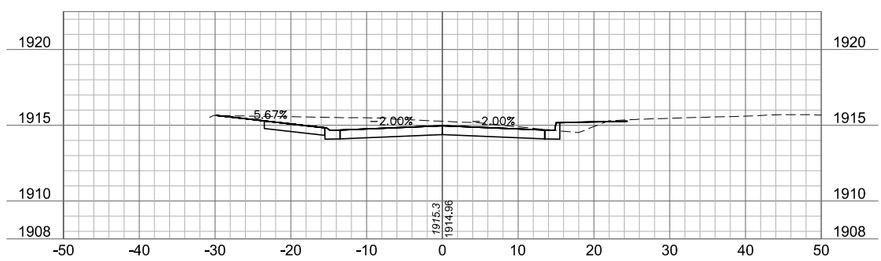
DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_XSC_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:21am XREFS: C_PCORR_60831 C_TBLK-XSC_60831



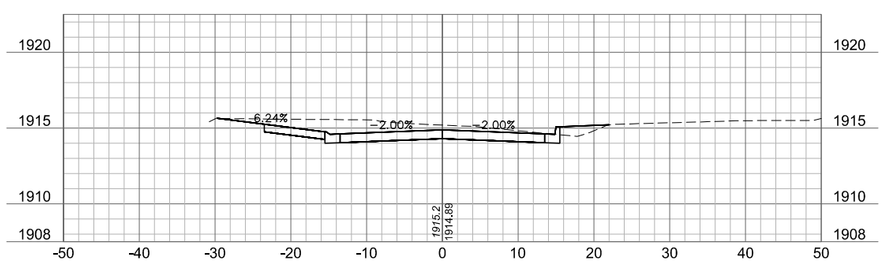
5+00



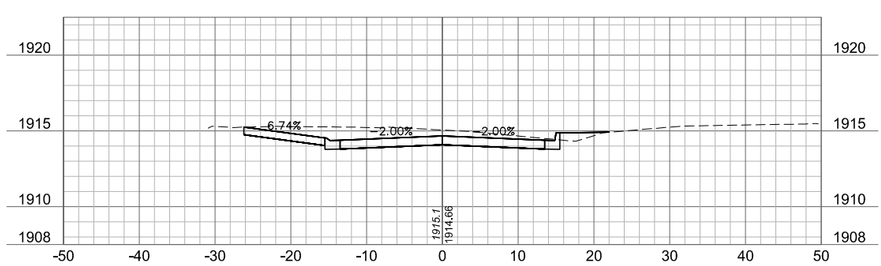
4+75



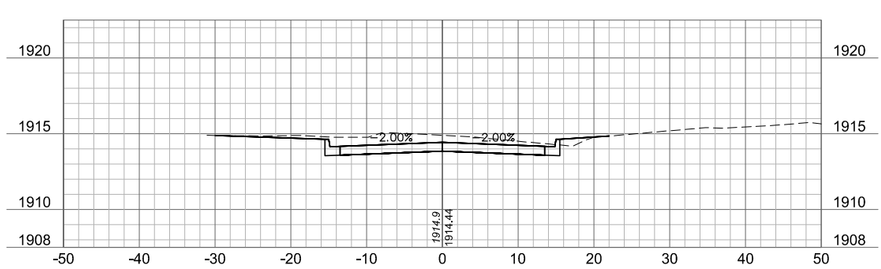
4+60



4+50



4+25



4+00

SHEET X3

drawn by: LH
checked by: MMR
approved by: MMR
QA/QC by: BG
project no.: 2016-0831
drawing no.: C_XSC_60831.dwg
date: 10-25-2016

MINNESOTA AVENUE CROSS SECTIONS
STA. 4+00 TO 5+00

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

HASTINGS, NEBRASKA 2016

REV. NO.	DATE	REVISIONS DESCRIPTION

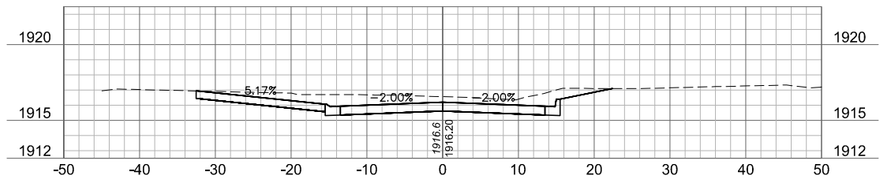
REVISIONS

PROFESSIONAL CIVIL ENGINEER
MATTHEW M. RIEF
E-10074
10-25-16
STATE OF NEBRASKA

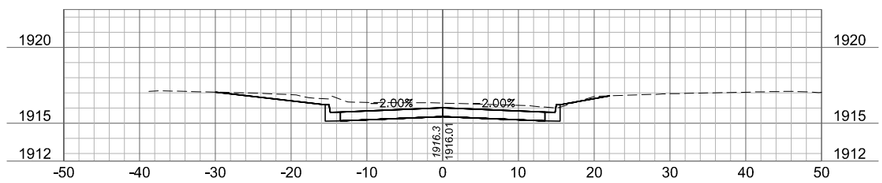
OLSSON ASSOCIATES

800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL 402.463.0240
FAX 402.463.0187
www.olssonassociates.com

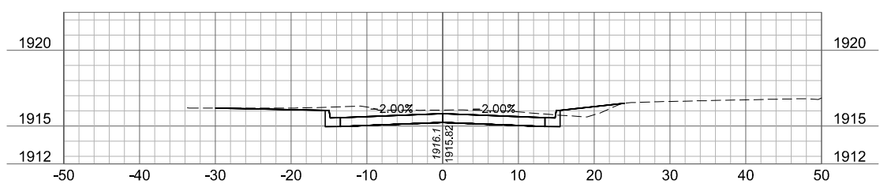
DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_XSC_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:21am XREFS: C_PCORR_60831 C_TBLK-XSC_60831



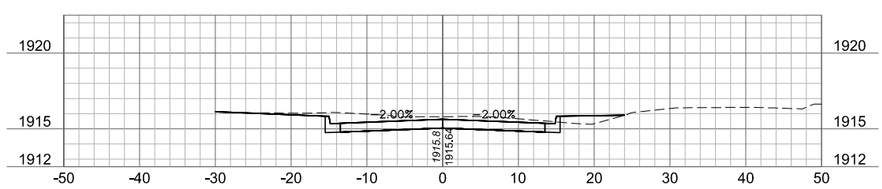
6+25



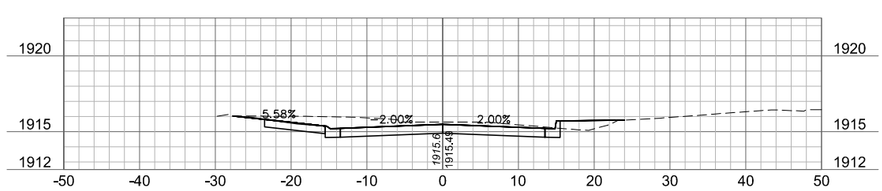
6+00



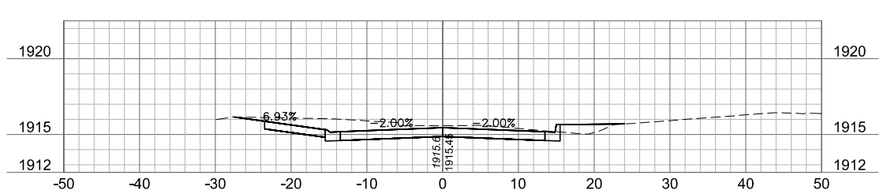
5+75



5+50



5+31



5+25

SHEET X4

drawn by: LH
checked by: MMR
approved by: MMR
QA/QC by: BG
project no.: 2016-0831
drawing no.: C_XSC_60831.dwg
date: 10-25-2016

MINNESOTA AVENUE CROSS SECTIONS
STA. 5+25 TO 6+25

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

HASTINGS, NEBRASKA 2016

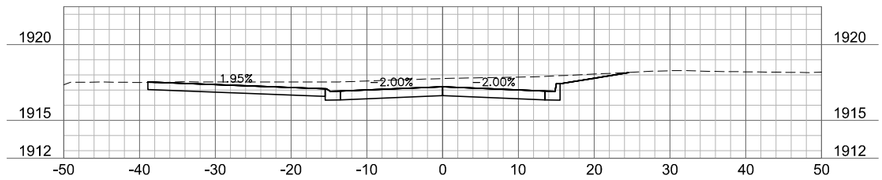
REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

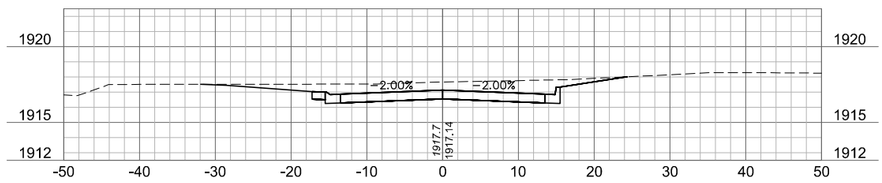
PROFESSIONAL CIVIL ENGINEER
MATTHEW M. RIEF
E-10074
10-25-16
STATE OF NEBRASKA

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL 402.463.0240
FAX 402.463.0187
www.olssonassociates.com

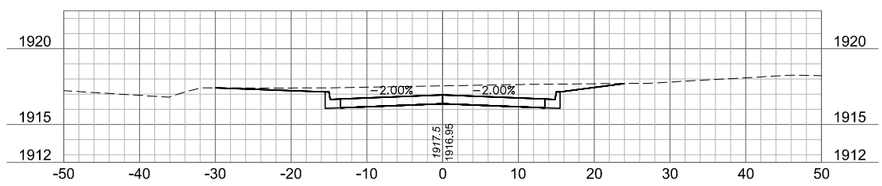
DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_XSC_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:22am XREFS: C_PCORR_60831 C_TBLK-XSC_60831



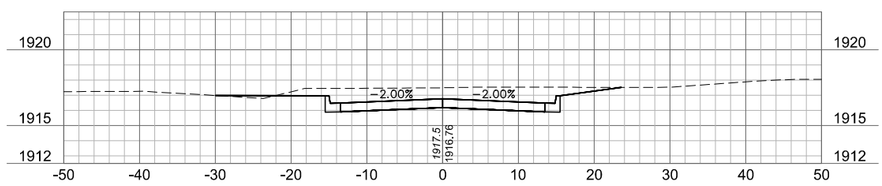
7+60



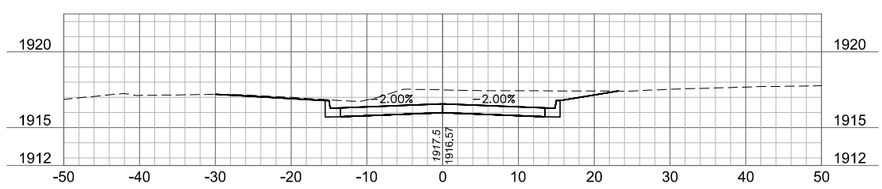
7+50



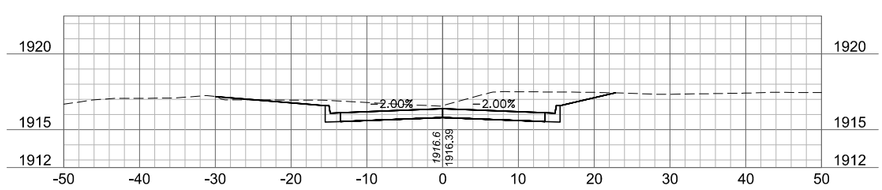
7+25



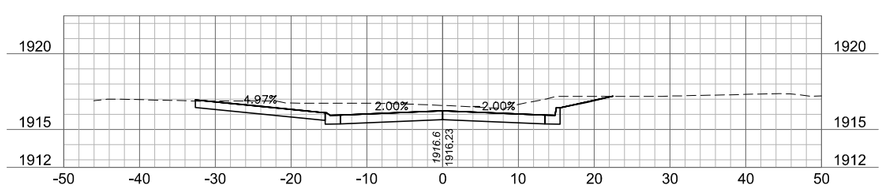
7+00



6+75



6+50



6+29

SHEET X5

drawn by: LH
checked by: MMR
approved by: MMR
QA/QC by: BG
project no.: 2016-0831
drawing no.: C_XSC_60831.dwg
date: 10-25-2016

MINNESOTA AVENUE CROSS SECTIONS
STA. 6+29 TO 7+60

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

HASTINGS, NEBRASKA 2016

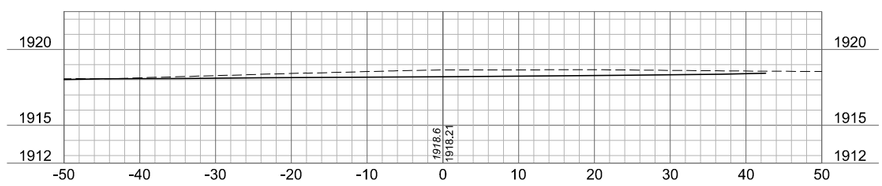
REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

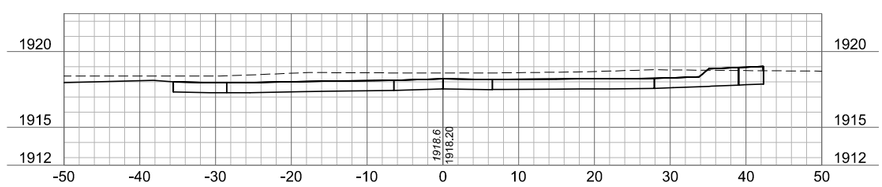
PROFESSIONAL CIVIL ENGINEER
MATTHEW M. RIEF
E-10074
10-25-16
STATE OF NEBRASKA

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL 402.463.0240
FAX 402.463.0187
www.olssonassociates.com

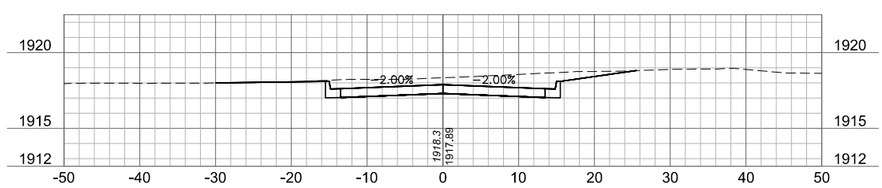
DWG: F:\2016\0501-1000\016-0831\40-Design\AutoCAD\Final Plans\Sheets\PBIN\C_XSC_60831.dwg USER: lhusted
DATE: Oct 25, 2016 10:22am XREFS: C_PCORR_60831 C_TBLK-XSC_60831



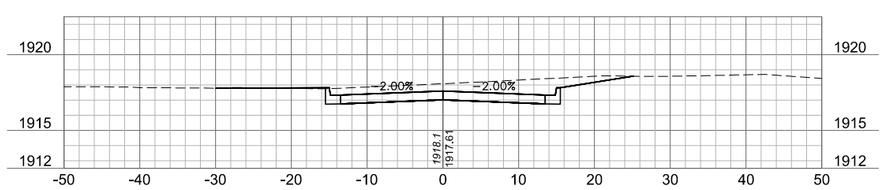
8+75



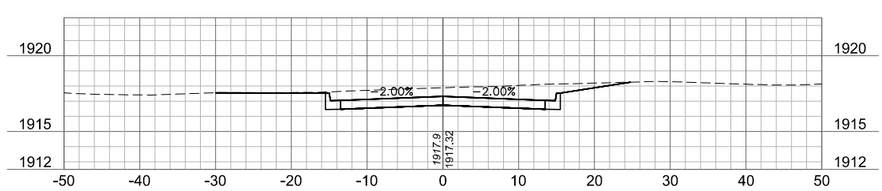
8+50



8+25



8+00



7+75

SHEET X6

drawn by: LH
checked by: MMR
approved by: MMR
QA/QC by: BG
project no.: 2016-0831
drawing no.: C_XSC_60831.dwg
date: 10-25-2016

MINNESOTA AVENUE CROSS SECTIONS
STA. 7+75 TO 8+75

MINNESOTA AVENUE PAVING IMPROVEMENTS
PROJECT MAP-2016

HASTINGS, NEBRASKA 2016

REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

PROFESSIONAL CIVIL ENGINEER
MATTHEW M. RIEF
E-10074
10-25-16
STATE OF NEBRASKA

OLSSON ASSOCIATES
800 W. 3rd Street, Suite #219
Hastings, NE 68901
TEL 402.463.0240
FAX 402.463.0187
www.olssonassociates.com