PROJECT HISTORY

THIS PROJECT WILL REPLACE SIGNALS AT THE INTERSECTIONS OF TH60 AND 6TH ST AS WELL AS AT TH60 AND 10TH ST AS THESE SIGNALS ARE BOTH NEARLY 40YRS OLD. SECONDARY IMPROVEMENTS INCLUDE A SEAL COAT ON THE BITUMINOUS PAVEMENT AND NEW MARKINGS THAT WILL REDUCE THE ROADWAY FROM 4 LANES TO 3 LANES AS RECOMMENDED IN THE CORRIDOR STUDY THAT WAS COMPLETED IN AUGUST OF 2022. A RECONSTRUCTION OF THIS AREA IS PLANNED IN THE FUTURE AND THIS PROJECT WILL SERVE AS A DEMONSTRATION OF THE NEW LANE CONFIGURATION AS WELL AS PROLONG THE PAVEMENT UNTIL THAT TIME. THE SIGNAL POLE LOCATIONS AND MAST ARM LENGTHS WILL BE DESIGNED TO ACCOMMODATE BOTH THE 4 LANE AND THE 3 LANE CONFIGURATION FOR WHICHEVER IS DETERMINED FOR THE FULL RECONSTRUCTION. ADA IMPROVEMENTS ARE ALSO INCLUDED AT THE 6TH ST AND 10TH ST INTERSECTIONS TO IMPROVE PEDESTRIAN ACCESS AND SAFETY WITH THE NEW SIGNALS.

LAYOUT HISTORY

OCTOBER 2023 - PRELIMINARY GEOMETRIC LAYOUT WAS SUBMITTED TO MNDOT FOR REVIEW. MNDOT PROVIDED THE FOLLOWING DESIGN DECISIONS UPON REVIEW:
- IMPLEMENT SOUTHBOUND LANE DROP NORTH OF JOHN CALDWELL DRIVE.
- IMPLEMENT NORTHBOUND LANE ADD NORTH OF JOHN CALDWELL DRIVE.
- INCLUDE SOUTHBOUND RIGHT TURN LANE AT STA 44+00 FOR DOLLAR GENERAL AND CARWASH BUSINESSES.
- DISMISS EXTENSION OF NORTHBOUND RIGHT TURN LANE AT THE SOUTH JUNCTION OF US 71 DUE TO LACK OF CRASH HISTORY.
- PROVIDE EXCEPTION VEHICLE FOR WB-62 AT THE 10TH ST INTERSECTION. TURNING MOVEMENTS WERE EVALUATED FOR WB-62 ACCOMMODATIONS AND DETERMINED PROPOSED GEOMETRY WILL NOT FURTHER RESTRICT ACCESS COMPARED TO EXISTING CONDITIONS.

OCTOBER 2023 - MNDOT ADA FIELD WALK RECOMMENDATIONS WERE PROVIDED AND THE LAYOUT HAS BEEN UPDATED ACCORDINGLY.

DECEMBER 2023 - GEOMETRIC LAYOUT 1A WAS SUBMITTED TO MNDOT FOR REVIEW. MNDOT PROVIDED THE FOLLOWING DESIGN DECISIONS UPON REVIEW:
- MNDOT APPROVED THE BUMPOUTS AT 10TH STREET AFTER REVIEWING TRUCK TURNING MOVEMENTS AND SIGNAL POLE LOCATIONS.
- TURN LANE LENGTHS WERE REVIEWED AND EXTENDED WHERE POSSIBLE

JANUARY 2024 - GEOMETRIC LAYOUT 1B WAS SUBMITTED FOR APPROVAL. MNDOT RECIEVED COMMENTS FROM THE CITY OF WINDOM TO REMOVE BUMPOUTS ALONG 10TH STREET TO IMPROVE TURNING MOVEMENTS AND MAINTENENCE OPERATIONS. THE CITY ALSO REQUESTED EASTBOUT RIGHT TURN LANE AT 12TH STEET. THE LAYOUT HAS BEEN UPDATED ACCORINGLY.

FEBRUARY 2024 - LAYOUT 1C WAS SUBMITTED FOR APPROVAL

LAYOUT NOTES

SIGNIFICANT CHANGES INCLUDE:

1. MNDOT WILL ACQUIRE ALL R/W NEEDED FOR THIS PROJECT
2. THE DESIGN VEHICLE FOR T.H 60 IS WB-62
3. NEWLY CONSTRUCTED PEDESTRIAN ACCOMMODATIONS WILL MEET MNDOT ADA REQUIREMENTS. ADA WORK INCLUDES PEDESTRIAN RAMP REPLACEMENTS AT T.H 60 AND 6TH STREET AND T.H. 60 AND 10TH STREET
4. TH 60 IS A CURRENT AND BEST OSOW ROUTE
5. A DESIGN SPEEDS OF 65MPH, 45MPH, AND 30MPH WERE APPLIED TO THE CORRIDOR

LAYOUT No. 1 OF 1 COPY No. 01C
T.H. 60 VICINITY OF WINDOM
FROM 1355' SOUTH OF 6TH STREET TO 2520' NORTH
OF JOHN CALDWELL DR. IN COTTONWOOD COUNTY
Prepared FEBRUARY 2024 Scale: Hor. 1 inch = 100 ft.
By KLJ
JOHN CRAWFORD, PE; KEVIN NELSON, PE; TESSA SCHUENKE, PE; CAITLIN WOTRUBA, PE; NICK JACKSON, PE; MELISSA KARCH

The alignment and grades shown on this map are tentative and subject to change without notice.	Staff Approval Date:	The traffic volumes shown were developed using historical growth rates applied to existing Annual Average Daily Traffic (AADT) and turning movements which were available for the TH60 corridor. The growth rates were calculated to be between 0.73% and 1.03%.

S.P. 1703-94 T.H. 60 A.J. PPMS Activity
S.P. T.H. A.J. PPMS Activity
S.P. T.H. A.J. PPMS Activity
Copy To: FILE For: APPROVAL

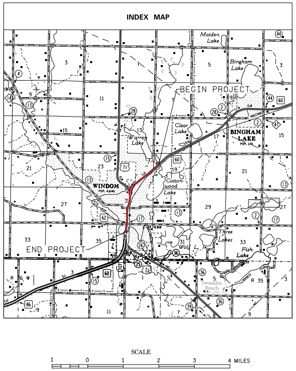
DESIGN FILE: K:\Projects\State\MN\DOT\2302-00222 TH60Design\CAD\Design\Geometric Layout\cd170394_lo-lvl2.dgn
DATE: 02/09/24

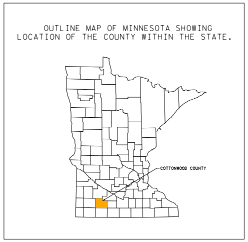
Level 2 LAYOUT APPROVAL

Programmed Letting Date MARCH 28, 2025
Prepared By District Design or Preliminary Design Engineer 20
Reviewed By District Traffic Engineer 20
Approved By Transportation District Engineer 20

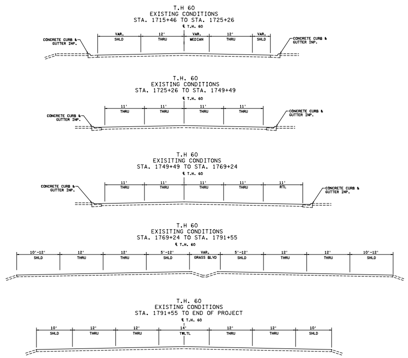
I HEREBY CERTIFY THAT THIS LAYOUT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
NAME: Kevin N. Nelson KEVIN N. NELSON LIC. NO. 53496 DATE: 2/9 2024

DEPARTMENT OF TRANSPORTATION


INDEX MAP
Maiden Lake
Bingham Lake
BEGIN PROJECT
BINGHAM LAKE
Clear Lake
Warren Lake
WINDOM
Cottonwood Lake
Three Lakes
Fish Lake
END PROJECT
SCALE
1 0 1 2 3 4 MILES


OUTLINE MAP OF MINNESOTA SHOWING LOCATION OF THE COUNTY WITHIN THE STATE.
COTTONWOOD COUNTY

EXISTING TYPICALS FOR ROADWAY


T.H 60
EXISTING CONDITIONS
STA. 1715+46 TO STA. 1725+26

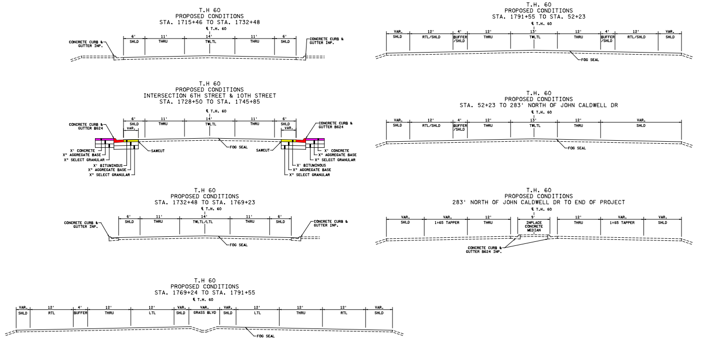
T.H. 60
EXISTING CONDITIONS
STA. 1725+26 TO STA. 1749+49

T.H 60
EXISITING CONDITONS
STA. 1749+49 TO STA. 1769+24

T.H 60
EXISITING CONDITIONS
STA. 1769+24 TO STA. 1791+55

T.H. 60
EXISTING CONDITIONS
STA. 1791+55 TO END OF PROJECT
℄ T.H. 60
VAR. SHLD
12' THRU
VAR. MEDIAN
11' THRU
11' RTL
10'-12' SHLD
5'-12' SHLD
VAR. GRASS BLVD
14' TWLTL
10' SHLD
CONCRETE CURB & GUTTER INP.

PROPOSED TYPICALS FOR ROADWAY


T.H 60
PROPOSED CONDITIONS
STA. 1715+46 TO STA. 1732+48

T.H 60
PROPOSED CONDITIONS
INTERSECTION 6TH STREET & 10TH STREET
STA. 1728+50 TO STA. 1745+85

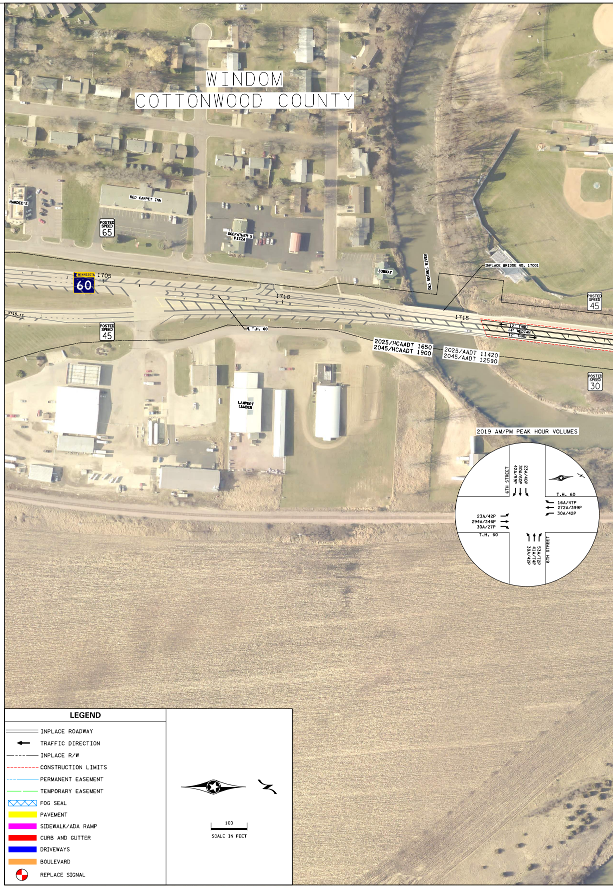
T.H 60
PROPOSED CONDITIONS
STA. 1732+48 TO STA. 1769+23

T.H 60
PROPOSED CONDITIONS
STA. 1769+24 TO STA. 1791+55

T.H. 60
PROPOSED CONDITIONS
STA. 1791+55 TO STA. 52+23

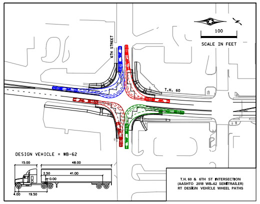
T.H. 60
PROPOSED CONDITIONS
STA. 52+23 TO 283' NORTH OF JOHN CALDWELL DR

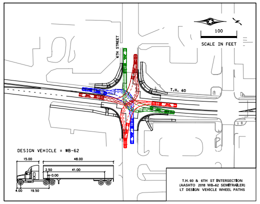
T.H. 60
PROPOSED CONDITIONS
283' NORTH OF JOHN CALDWELL DR TO END OF PROJECT
℄ T.H. 60
6' SHLD
11' THRU
14' TWLTL
14' TWLTL/LTL
VAR.
CONCRETE CURB & GUTTER INP.
CONCRETE CURB & GUTTER B624
X' CONCRETE
X" AGGREGATE BASE
X" SELECT GRANULAR
X' BITUMINOUS
SAWCUT
FOG SEAL
VAR. SHLD
12' RTL
4' BUFFER
12' THRU
12' LTL
VAR. GRASS BLVD
12' RTL/SHLD
4' BUFFER /SHLD
13' TWLTL
VAR. 1:65 TAPPER
9' INPLACE CONCRETE MEDIAN
CONCRETE CURB & GUTTER B624 INP.

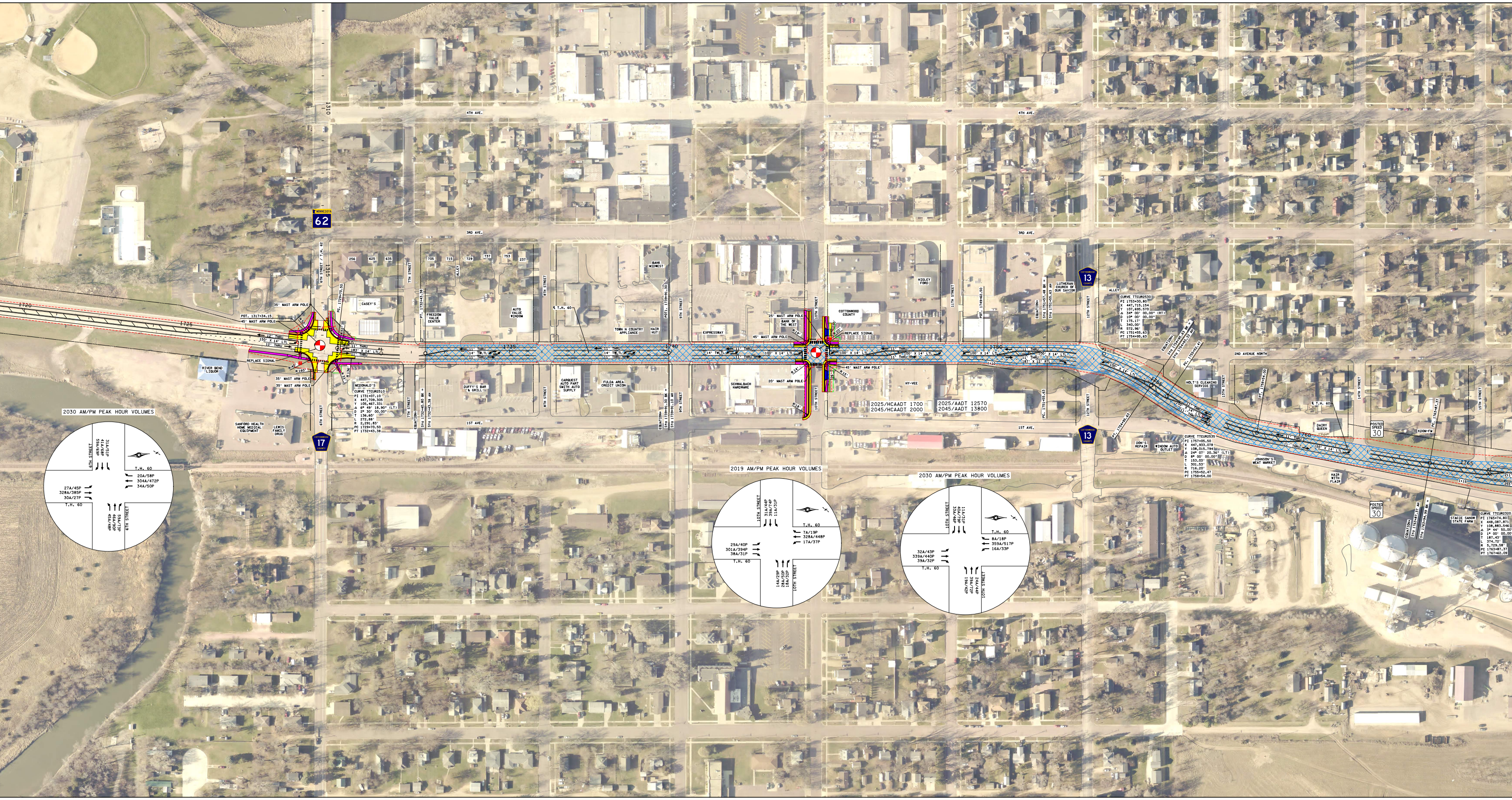

WINDOM
COTTONWOOD COUNTY
HARDEE'S
RED CARPET INN
GODFATHER'S PIZZA
SUBWAY
DES MOINES RIVER
INPLACE BRIDGE NO. 17001
LAMPERT LUMBER
POSTED SPEED 65
POSTED SPEED 45
POSTED SPEED 30
MINNESOTA 60
1705
1710
1715
℄ T.H. 60
12' THRU
14' MEDIAN
12' THRU
2025/HCAADT 1650
2045/HCAADT 1900
2025/AADT 11420
2045/AADT 12590
2019 AM/PM PEAK HOUR VOLUMES
6TH STREET
T.H. 60
23A/40P
30A/60P
42A/59P
16A/47P
272A/399P
30A/42P
23A/42P
294A/346P
30A/27P
53A/72P
41A/74P
39A/42P
100
SCALE IN FEET

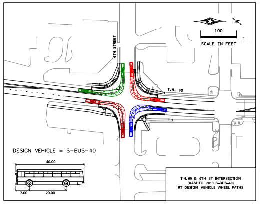
LEGEND

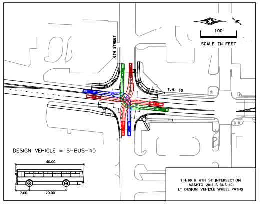
- INPLACE ROADWAY
- ← TRAFFIC DIRECTION
- INPLACE R/W
- CONSTRUCTION LIMITS
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- ▨ FOG SEAL
- 🟨 PAVEMENT
- 🟪 SIDEWALK/ADA RAMP
- 🟥 CURB AND GUTTER
- 🟦 DRIVEWAYS
- 🟧 BOULEVARD
- ◐ REPLACE SIGNAL

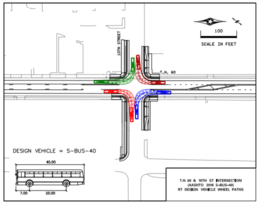

T.H. 60 & 6TH ST INTERSECTION
(AASHTO 2018 WB-62 SEMITRAILER)
RT DESIGN VEHICLE WHEEL PATHS
6TH STREET
T.H. 60
100
SCALE IN FEET
DESIGN VEHICLE = WB-62
15.00
48.00
2.50
41.00
0.00
4.00
19.50

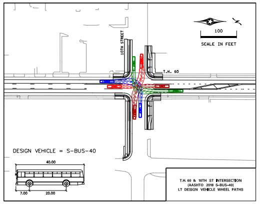

T.H. 60 & 6TH ST INTERSECTION
(AASHTO 2018 WB-62 SEMITRAILER)
LT DESIGN VEHICLE WHEEL PATHS
6TH STREET
T.H. 60
100
SCALE IN FEET
DESIGN VEHICLE = WB-62
15.00
48.00
2.50
41.00
0.00
4.00
19.50

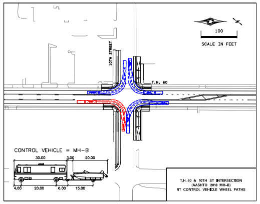

4TH AVE.
3RD AVE.
2ND AVENUE NORTH
1ST AVE.
MINNESOTA 62
6TH STREET / T.H. 62
1310
1315
1720
1725
1735
1740
1745
1750
1755
1760
1765
256
625
635
705
715
729
737
753
237
7TH STREET
ALLEY
8TH STREET
9TH STREET
10TH STREET
11TH STREET
12TH STREET
13TH STREET
14TH STREET
15TH STREET
6TH STREET
CASEY'S
FREEDOM VALUE CENTER
AUTO VALUE WINDOM
BANK MIDWEST
TOWN N COUNTRY APPLIANCE
HAIR HUT
EXPRESSWAY
BANK OF THE WEST
COTTONWOOD COUNTY
HIGLEY FORD
LUTHERAN CHURCH OF OUR SAVIOR
RIVER BEND LIQUOR
SANFORD HEALTH HOME MEDICAL EQUIPMENT
LEWIS FAMILY DRUG
MCDONALD'S
DUFFY'S BAR & GRILL
CARQUEST AUTO PART SMITH AUTO SUPPLY
FULDA AREA CREDIT UNION
SCHWALBACH HARDWARE
HY-VEE
HOLT'S CLEANING SERVICE
DAIRY QUEEN
KDOM-FM
DON'S REPAIR
WINDOM AUTO OUTLET
JOHNSON'S MEAT MARKET
HAIR WITH FLAIR
STACIE SANOW STATE FARM
COTTONWOOD COUNTY 17
COTTONWOOD COUNTY 13
POSTED SPEED 30
POT. 1317+34.15
45' MAST ARM POLE
35' MAST ARM POLE
25' MAST ARM POLE
20' MAST ARM POLE
REPLACE SIGNAL
PC. 1729+70.50
PT. 1732+43.38
EQUATION:
Sta 1732+40.80 BK =
Sta 1732+43.38 AH
12' THRU
150' X 14' LTL
11' THRU
183' X 14' LTL
14' TWLTL
100' X 14' LTL
187' X 12' RTL
150' X 14' LTL
R 50'
R 52'
R 40'
R 160'
R 136'
R 33'
R 19'
R 20'
R 14'
R 15'
R 18'
℄ T.H. 60
POT1. 1739+91.30
Sta 1739+91.30 BK =
Sta 1739+91.10 AH
POT. 1749+62.50
Sta 1751+57.48 BK =
Sta 1751+55.63 AH
PC. 1751+55.63
PT. 1754+95.63
Sta 1754+95.63 BK =
Sta 1754+93.33 AH
PC. 1755+52.47
PT. 1758+54.00
PC. 1763+87.37
Sta 1763+87.37 AH
Sta 1763+94.99 BK =
CURVE TTCUR2510
PI 1731+07.10
X 447,709.305
Y 105,467.331
Δ 6° 49' 18.90" (LT)
D 2° 30' 00.00"
T 136.60'
L 272.88'
R 2,291.83'
PC 1729+70.50
PT 1732+43.38
CURVE TTCUR2530
PI 1753+30.80
X 447,715.154
Y 107,695.570
Δ 34° 00' 00.00" (RT)
D 10° 00' 00.00"
T 175.17'
L 340.00'
R 572.96'
PC 1751+55.63
PT 1754+95.63
CURVE TTCUR2535
PI 1757+05.50
X 447,933.078
Y 108,015.794
Δ 24° 07' 20.36" (LT)
D 8° 00' 00.00"
T 153.03'
L 301.53'
R 716.20'
PC 1755+52.47
PT 1758+54.00
CURVE TTCUR2320
PI 1765+74.80
X 448,087.871
Y 108,883.546
Δ 3° 44' 50.00"
D 1° 00' 00.00"
T 187.43'
L 374.72'
R 5,729.58'
PC 1763+87.37
PT 1767+62.09
2025/HCAADT 1700
2045/HCAADT 2000
2025/AADT 12570
2045/AADT 13800
2030 AM/PM PEAK HOUR VOLUMES
6TH STREET
31A/51P
41A/68P
59A/69P
T.H. 60
20A/58P
304A/472P
34A/50P
27A/45P
328A/385P
30A/27P
59A/73P
46A/90P
45A/48P
2019 AM/PM PEAK HOUR VOLUMES
10TH STREET
31A/44P
39A/74P
11A/31P
7A/19P
328A/448P
17A/37P
29A/40P
301A/394P
38A/31P
14A/29P
28A/50P
18A/32P
2030 AM/PM PEAK HOUR VOLUMES
11A/31P
40A/79P
33A/46P
8A/18P
359A/517P
16A/33P
32A/43P
339A/440P
39A/32P
24A/44P
39A/72P
19A/42P

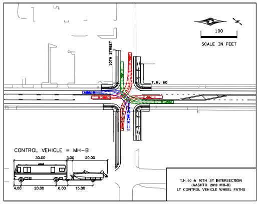

6TH STREET
T.H. 60
100
SCALE IN FEET
DESIGN VEHICLE = S-BUS-40
40.00
7.00
20.00
T.H. 60 & 6TH ST INTERSECTION
(AASHTO 2018 S-BUS-40)
RT DESIGN VEHICLE WHEEL PATHS

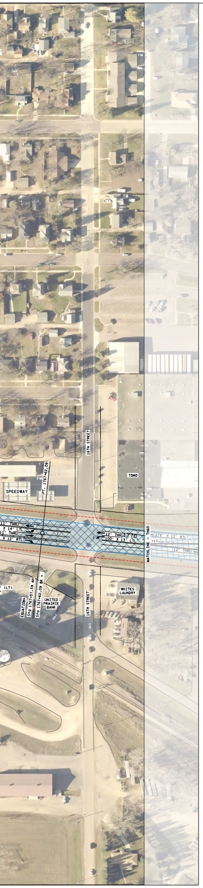

6TH STREET
T.H. 60
100
SCALE IN FEET
DESIGN VEHICLE = S-BUS-40
40.00
7.00
20.00
T.H. 60 & 6TH ST INTERSECTION
(AASHTO 2018 S-BUS-40)
LT DESIGN VEHICLE WHEEL PATHS

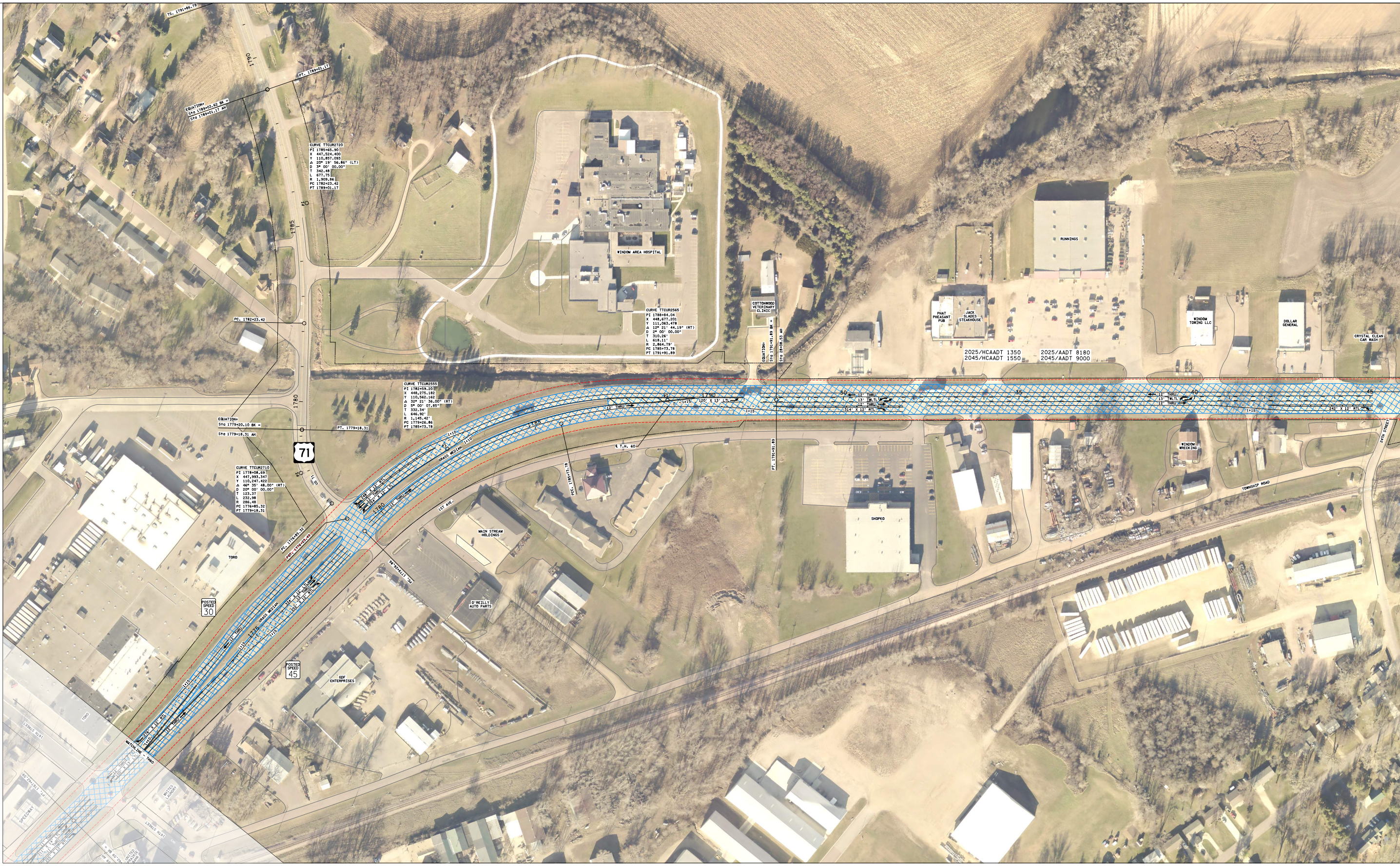

10TH STREET
T.H. 60
100
SCALE IN FEET
DESIGN VEHICLE = S-BUS-40
40.00
7.00
20.00
T.H. 60 & 10TH ST INTERSECTION
(AASHTO 2018 S-BUS-40)
RT DESIGN VEHICLE WHEEL PATHS

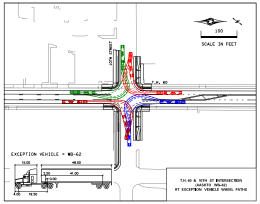

10TH STREET
T.H. 60
100
SCALE IN FEET
DESIGN VEHICLE = S-BUS-40
40.00
7.00
20.00
T.H. 60 & 10TH ST INTERSECTION
(AASHTO 2018 S-BUS-40)
LT DESIGN VEHICLE WHEEL PATHS


10TH STREET
T.H. 60
100
SCALE IN FEET
CONTROL VEHICLE = MH-B
30.00
3.00
20.00
4.00
20.00
6.00
15.00
T.H. 60 & 10TH ST INTERSECTION
(AASHTO 2018 MH-B)
RT CONTROL VEHICLE WHEEL PATHS

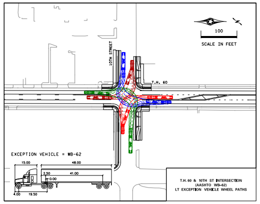

10TH STREET
T.H. 60
100
SCALE IN FEET
CONTROL VEHICLE = MH-B
30.00
3.00
20.00
4.00
20.00
6.00
15.00
T.H. 60 & 10TH ST INTERSECTION
(AASHTO 2018 MH-B)
LT CONTROL VEHICLE WHEEL PATHS


SPEEDWAY
PT. 1767+62.09
16TH STREET
TORO
11' THRU
X 14' LTL
11' THRU
X 12' RTL
12' THRU
100' X 13' LTL
1770
MATCHLINE - TH60
(LT)
EQUATION:
Sta 1767+57.59 AH
Sta 1767+62.09 BK =
UNITED PRAIRIE BANK
16TH STREET
WHITES LAUNDRY

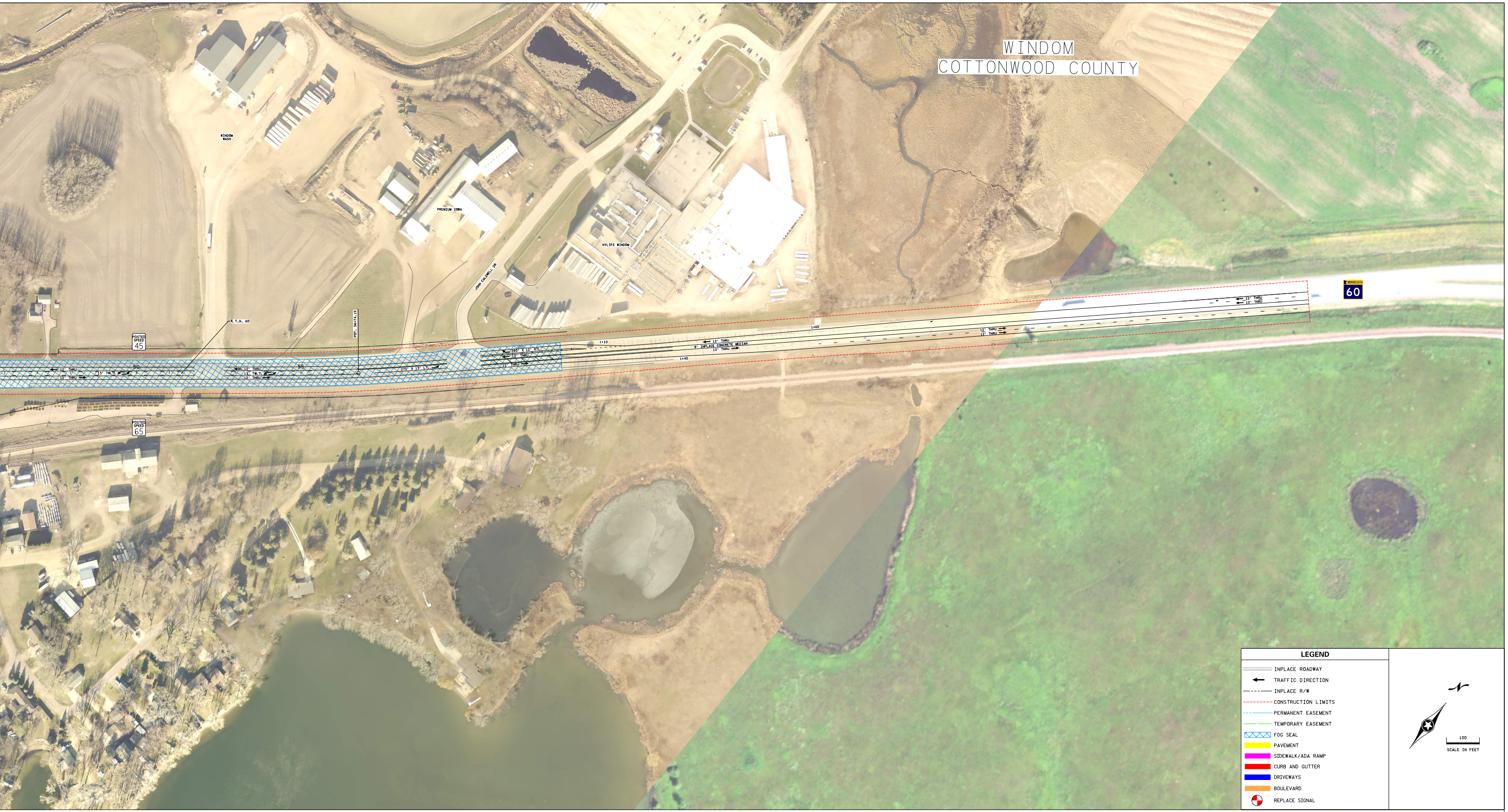

TS. 1791+86.79
1790
PT. 1789+01.17
EQUATION:
Sta 1789+03.62 BK =
Sta 1789+01.17 AH
CURVE TTCUR2720
PI 1785+65.90
X 447,524.400
Y 110,857.093
Δ 20° 19' 56.86" (LT)
D 3° 00' 00.00"
T 342.48
L 677.75
R 1,909.86
PC 1782+23.42
PT 1789+01.17
PI
1785
PC. 1782+23.42
1780
EQUATION:
Sta 1779+20.10 BK =
Sta 1779+18.31 AH
PT. 1779+18.31
71
CURVE TTCUR2710
PI 1778+08.69
X 447,993.347
Y 110,247.422
Δ 46° 35' 48.00" (RT)
D 20° 00' 00.00"
T 123.37
L 232.98
R 286.48
PC 1776+85.32
PT 1779+18.31
US 71
PC. 1776+85.32
POT. 1776+23.49
TORO
POSTED SPEED 30
CURVE TTCUR2555
PI 1782+59.20
X 448,275.182
Y 110,562.162
Δ 32° 21' 36.00" (RT)
D 5° 00' 07.85"
T 332.34'
L 646.92'
R 1,145.42'
PC 1779+26.86
PT 1785+73.78
GRASS MEDIAN
248' X 12' RTL
12' THRU
254' X 12' LTL
12' THRU
1:10
1775
334' X 12' LTL
252' X 12' RTL
1:15
276' X 12' RTL
MATCHLINE - TH60
PC. 1779+26.86
PCC. 1785+73.78
℄ T.H. 60
1ST AVE.
MAIN STREAM HOLDINGS
O'REILLY AUTO PARTS
POSTED SPEED 45
GDF ENTERPRISES
WINDOM AREA HOSPITAL
CURVE TTCUR2565
PI 1788+84.04
X 448,677.201
Y 111,063.478
Δ 12° 21' 44.19" (RT)
D 2° 00' 00.00"
T 310.26'
L 618.11'
R 2,864.79'
PC 1785+73.78
PT 1791+91.89
COTTONWOOD VETERINARY CLINIC
EQUATION:
Sta 1791+91.89 BK =
Sta 28+08.53 AH
PT. 1791+91.89
120' X 13' LTL
30
12' THRU
13' TWLTL
314' X 12' RTL
35
RUNNINGS
PHAT PHEASANT PUB
JACK SLADES STEAKHOUSE
2025/HCAADT 1350
2045/HCAADT 1550
2025/AADT 8180
2045/AADT 9000
SHOPKO
WINDOM TOWING LLC
DOLLAR GENERAL
CRYSTAL CLEAN CAR WASH
40
45
242' X 12' RTL
WINDOM WRECKING
TOWNSHIP ROAD
24TH STREET


100
SCALE IN FEET
10TH STREET
T.H. 60
EXCEPTION VEHICLE = WB-62
15.00
48.00
2.50
41.00
0.00
4.00
19.50

T.H. 60 & 10TH ST INTERSECTION
(AASHTO WB-62)
RT EXCEPTION VEHICLE WHEEL PATHS


100
SCALE IN FEET
10TH STREET
T.H. 60
EXCEPTION VEHICLE = WB-62
15.00
48.00
2.50
41.00
0.00
4.00
19.50

T.H. 60 & 10TH ST INTERSECTION
(AASHTO WB-62)
LT EXCEPTION VEHICLE WHEEL PATHS


WINDOM
COTTONWOOD COUNTY
WINDOM WASH
PREMIUM IOWA
HYLIFE WINDOM
JOHN CALDWELL DR
℄ T.H. 60
POT. 56+74.15
POSTED SPEED 45
POSTED SPEED 65
50
55
12' THRU
13' TWLTL
12' THRU
12' THRU
13' TWLTL
12' THRU
270' X 13' LTL
280' X 12' RTL
12' THRU
12' THRU
1+10
12' THRU
9' INPLACE CONCRETE MEDIAN
12' THRU
1+40
1+65
12' THRU
12' THRU
12' THRU
12' THRU
MINNESOTA 60
LEGEND
INPLACE ROADWAY
TRAFFIC DIRECTION
INPLACE R/W
CONSTRUCTION LIMITS
PERMANENT EASEMENT
TEMPORARY EASEMENT
FOG SEAL
PAVEMENT
SIDEWALK/ADA RAMP
CURB AND GUTTER
DRIVEWAYS
BOULEVARD
REPLACE SIGNAL
100
SCALE IN FEET