WKE

DECEMBER 2018

PROJECT ID: 2415-00-71

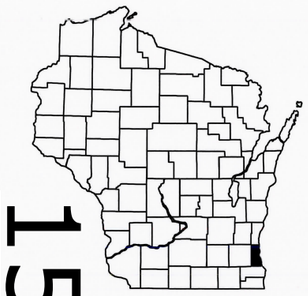
WITH: N/A

COUNTY: MILWAUKEE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
~~Section No.~~	~~7~~	~~Sign Plates~~
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 420



15

N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SOUTH 60TH STREET

W MORGAN AVE TO KK RVR PKWY

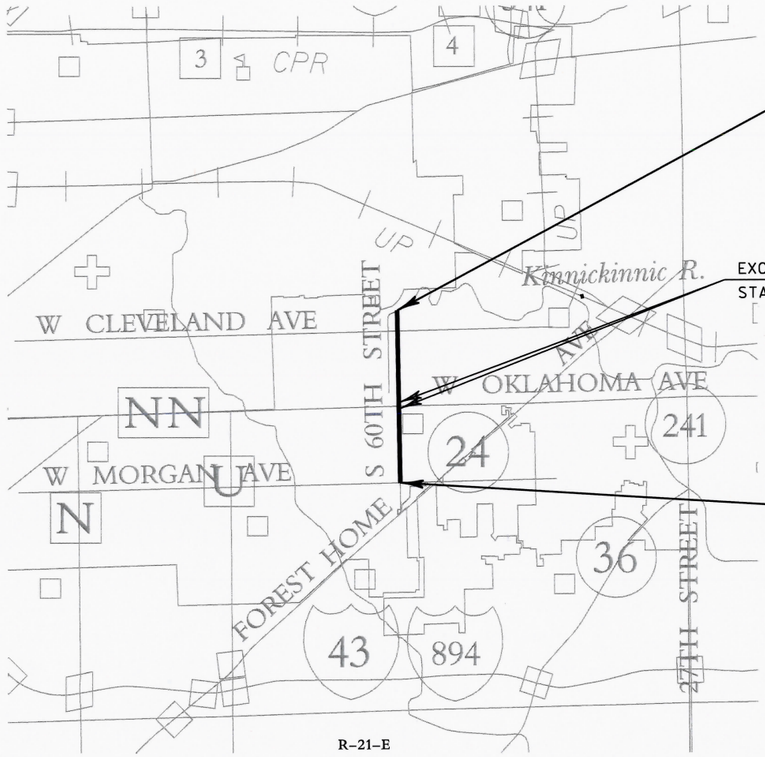
LOCAL STREET

MILWAUKEE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2415-00-71	WISC 2019008	1

STATE PROJECT NUMBER

2415-00-71



T-6-N

R-21-E

END PROJECT 2415-00-71
STA 159+31.51

EXCEPTION TO NET CENTERLINE LENGTH
STA 125+82.01 TO STA 127+06.24

BEGIN PROJECT 2415-00-71
STA 100+83.12
X=2538412.95
Y=364170.53

LAYOUT
SCALE 0 1/2 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.097 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), SOUTH ZONE. GROUND COORDINATES ARE LABELED "N" AND "E", GRID COORDINATES ARE LABELED "Y" AND "X". TO CONVERT GROUND TO GRID, MULTIPLY GROUND BY FACTOR 0.99992395.

ELEVATIONS ON THIS PLAN ARE REFERENCED TO CITY OF MILWAUKEE DATUM. ADD 580.60 TO PLACE ELEVATIONS ON THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.

DESIGN DESIGNATION

A.A.D.T. (2016)	= 12,800
A.A.D.T. (2039)	= 14,200
D.H.V.	= 1,594
D.D.	= 59%/41%
T.	= 13.1%
DESIGN SPEED	= 35 MPH
ESALS	= 830,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

ACCEPTED FOR

CITY of MILWAUKEE

6/26/18 (Date)

COMMISSIONER OF PUBLIC WORKS (Signature & Title of Official)

ORIGINAL PLANS PREPARED BY

EMCS

1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 FAX 414.347.1347

WISCONSIN PROFESSIONAL ENGINEER
SILVANA POBRIC
E-44858-6
MILWAUKEE, WI

6/25/18 (Date)

Silvana Pobric (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor: EMCS, INC

Designer: EMCS, INC

Management Consultant: DAAR ENGINEERING, INC

APPROVED FOR THE DEPARTMENT

DATE: 7/17/18

(Management Consultant Signature)

E

GENERAL NOTES

RADII OF THE STANDARD CURB & GUTTER ARE MEASURED TO THE FLANGE LINE OF THE CURB.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS RESULTING FROM THE REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

PIPE ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

PLACE INLET PROTECTION AT ALL INLET LOCATIONS ACCEPTING STORM WATER FROM THE PROJECT AREA OR AS DIRECTED BY THE ENGINEER.

EXISTING R/W SHOWN IN PLANS IS BASED ON AVAILABLE MILWAUKEE COUNTY GIS PARCELS EXCEPT FROM STA 153+00 TO STA 160+02

SLOPE INTERCEPT IS ONLY SHOWN AT THE 60-INCH OUTFALL LOCATED APPROXIMATELY 100' SOUTH OF W KINNICKINNIC RIVER PARKWAY ON THE EAST SIDE OF THE ROAD. CONSTRUCTION LIMITS ARE LOCATED AT THE RIGHT-OF-WAY ELSEWHERE.

UTILITIES WERE SURVEYED AS OF SEPTEMBER 2016. SUBSEQUENT UTILITY ADJUSTMENTS ARE LISTED IN THE SPECIAL PROVISIONS.

DIGGERS HOTLINE

Dial 811 or (800) 242-8511

www.DiggersHotline.com

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
CURB RAMP DETAILS
PLAN DETAILS
EROSION CONTROL
STORM SEWER
LIGHTING
TRAFFIC SIGNALS
COMMUNICATIONS
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT
SURVEY CONTROL

STANDARD ABBREVIATIONS

AEW/AEWS	APRON END WALL/APRON ENDWALLS
AH	AHEAD
BK	BACK
BM	BENCHMARK
CB	CATCH BASIN
CE	COMMERCIAL ENTRANCE
C&G	CURB AND GUTTER
C/L	CENTER LINE
CPRC	CPRC
MAX	MAXIMUM
MIN	MINIMUM
M/L	MATCH LINE
NB	NORTHBOUND
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
R/W	RIGHT-OF-WAY
RT	RIGHT
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
STA	STATION
TYP	TYPICAL

UTILITIES

AT&T WISCONSIN (DISTRIBUTION)
MR. JAY BULANEK
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188
jb5175@att.com

AT&T WISCONSIN
MR. MATTHEW DINNAUER (CONSTRUCTION CONTACT)
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188
(262) 896-7690

AMERICAN TRANSMISSION COMPANY (ATC)
MR. CHRIS DAILEY
W234N2000 RIDGEWAY PKWY CT.
WAUKESHA, WI 53188
cdailey@atcllc.com

AMERICAN TRANSMISSION COMPANY (ATC)
MR. TJ LAUX (CONSTRUCTION CONTACT)
W234N2000 RIDGEWAY PKWY CT.
WAUKESHA, WI 53188
(262) 720-1541

CITY OF MILWAUKEE (COMMUNICATIONS)
MR. BRYAN PAWLAK (CONSTRUCTION CONTACT)
1440 W. CANAL ST.
MILWAUKEE, WI 53233
(414) 286-3686

CITY OF MILWAUKEE (COMMUNICATIONS)
MR. DAVID HENKE
1440 W. CANAL ST.
MILWAUKEE, WI 53233
dhenke@milwaukee.gov
(414) 286-3248

CITY OF MILWAUKEE (CUC)
MS. KAREN ROGNEY
841 N. BROADWAY
MILWAUKEE, WI 53202
krogne@milwaukee.gov
(414) 276-3243

CITY OF MILWAUKEE (FORESTRY)
MR. JAMES KRINGER
841 N. BROADWAY
MILWAUKEE, WI 53202
jkring@milwaukee.gov

CITY OF MILWAUKEE (LIGHTING)
MS. LISA HICKMAN
841 N. BROADWAY
MILWAUKEE, WI 53202
lhickm@milwaukee.gov

CITY OF MILWAUKEE (LIGHTING)
MR. DENNIS MILLER (CONSTRUCTION CONTACT)
1540 W. CANAL ST.
MILWAUKEE, WI 53233
(414) 286-5942

CITY OF MILWAUKEE (SEWER)
MR. ANDREW ROEMER
841 N. BROADWAY, ROOM 821
MILWAUKEE, WI 53202
aroeme@milwaukee.gov

CITY OF MILWAUKEE (SEWER)
MR. ZAFAR YOUSUF (CONSTRUCTION CONTACT)
841 N. BROADWAY, ROOM 820
MILWAUKEE, WI 53202
(414) 286-2467

CITY OF MILWAUKEE (TRAFFIC SIGNALS)
MR. SCOTT REINBACHER
841 N. BROADWAY
MILWAUKEE, WI 53202
sreinb@milwaukee.gov

CITY OF MILWAUKEE (TRAFFIC SIGNALS)
MR. ALFONZO NICHOLS JR. (CONSTRUCTION CONTACT)
1540 W. CANAL ST.
MILWAUKEE, WI 53233
(414) 286-5941

CITY OF MILWAUKEE (WATER)
MR. JOSH IWEN
841 N. BROADWAY, ROOM 409
MILWAUKEE, WI 53202
jiwen@milwaukee.gov

CITY OF MILWAUKEE (WATER)
MR. DAVID GOLDAPP (CONSTRUCTION CONTACT)
841 N. BROADWAY, ROOM 409
MILWAUKEE, WI 53202
(414) 286-6301

MILWAUKEE METRO SEWERAGE DISTRICT
MS. MICHELLE KLAPPA-SULLIVAN
MANAGER OF ENGINEERING PLANNING
260 W. SEEBOTH STREET
MILWAUKEE, WI 53204-1446
MKlappaSullivan@mmsd.com

MILWAUKEE METRO SEWERAGE DISTRICT
MR. LARRY ANDERSON (CONSTRUCTION CONTACT)
260 W. SEEBOTH STREET
MILWAUKEE, WI 53204-1446
(414) 225-2241

SPECTRUM
MR. PETE KRUZELA
1320 N. DR. MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI 53212
414 908-1339

WE ENERGIES (ELECTRIC)
MS. NICOLE SMULLEN
333 W. EVERETT ST. - A299
MILWAUKEE, WI 53203
nicole.smullen@we-energies.com

WE ENERGIES (ELECTRIC)
MR. ALEX DANTINNE (CONSTRUCTION CONTACT
500 S 116TH ST
WEST ALLIS, WI 53214
alex.dantinne@we-energies.com
(920) 621-6903

WE ENERGIES (GAS)
MS. NICOLE SMULLEN
333 W. EVERETT ST. - A299
MILWAUKEE, WI 53203
nicole.smullen@we-energies.com

WE ENERGIES (GAS)
MR. SEAN MEEGAN (CONSTRUCTION CONTACT)
W140 N9100 LILLY RD.
MENOMONEE FALLS, WI 53051
sean.meehan@we-energies.com
(262) 502-6813

OTHER CONTACTS

CITY OF MILWAUKEE
CHAD CHRISBAUM
841 N. BROADWAY, ROOM 902
MILWAUKEE, WI 53202
cchris@milwaukee.gov

CITY OF MILWAUKEE
DAVID TAPIA, PROJECT MANAGER
841 N. BROADWAY, ROOM 902
MILWAUKEE, WI 53202
dtapia@milwaukee.gov

CITY OF WEST ALLIS
PETER DANIELS, PRINCIPAL DESIGN ENGINEER
7525 W. GREENFIELD AVENUE, ROOM 212
WEST ALLIS, WI 53214
pdaniels@westalliswi.gov

MILWAUKEE COUNTY TRANSIT SYSTEM
ANDY TILLMAN
1942 N. 17TH STREET
MILWAUKEE, WI 53205
(414) 343-1728
atillman@mcts.org

MILWAUKEE COUNTY TRANSIT SYSTEM
DAVID LOCHER
1942 N. 17TH STREET
MILWAUKEE, WI 53205
(414) 343-1727
dlocher@mcts.org

WISCONSIN DOT
MR. MARK ZAPP
141 NW BARSTOW
WAUKESHA, WI 53187
(414) 750-2645
mark.zapp@dot.wi.gov

WISCONSIN DNR
KRISTINA BETZOLD, ENVIRONMENTAL ANALYSIS AND REVIEW SPECIALIST
2300 N. MARTIN LUTHER KING DRIVE
MILWAUKEE, WI 53212
kristina.betzold@wisconsin.gov

MILWAUKEE COUNTY PARKS
SARAH TOOMSEN, INTERIM CHIEF OF PLANNING & DEVELOPMENT
9480 WATERTOWN PLANK ROAD
WAUWATOSA, WI 53213
(414) 257-7389
Sarah.Toomsen@milwaukeecountywi.gov

2

2

N

W. MORGAN AVENUE

W. HOLT AVENUE

W. OHIO AVENUE

W. LAKEFIELD DRIVE (PRIVATE DRIVE)

W. OKLAHOMA AVENUE

W. BENNETT AVENUE

S. 60TH STREET

W. STACK DRIVE

W. MONTANA STREET

W. CLEVELAND AVENUE

W. KINNICKINNIC PKWY

W. ARTHUR AVENUE

20"MO"

30"MO"

40"MO"

50"MO"

60"MO"

30"O"

40"O"

50"O"

60"O"

70"O"

40"C"

60"C"

70"C"

80"C"

8"H"

10"H"

12"H"

8"OH"

10"OH"

12"OH"

12"LA"

12"BA"

12"BB"

8"

10"

12"

10"MT"

30"W"

14"K"

110

120

130

140

150

160

170

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12
= MATCH PROJECT
I.D. 2415-00-70
(PREVIOUSLY CONSTRUCTED)

SIGNALS TO REMAIN

END CONSTRUCTION
I.D. 2415-00-71
STA. 125+82.01
= MATCH PROJECT
I.D. 2400-00-72

EXCEPTION TO NET CENTERLINE LENGTH
STA. 125+82.01 TO STA. 127+06.24

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA. 127+06.24
= MATCH PROJECT
I.D. 2400-00-72

SIGNALS TO REMAIN

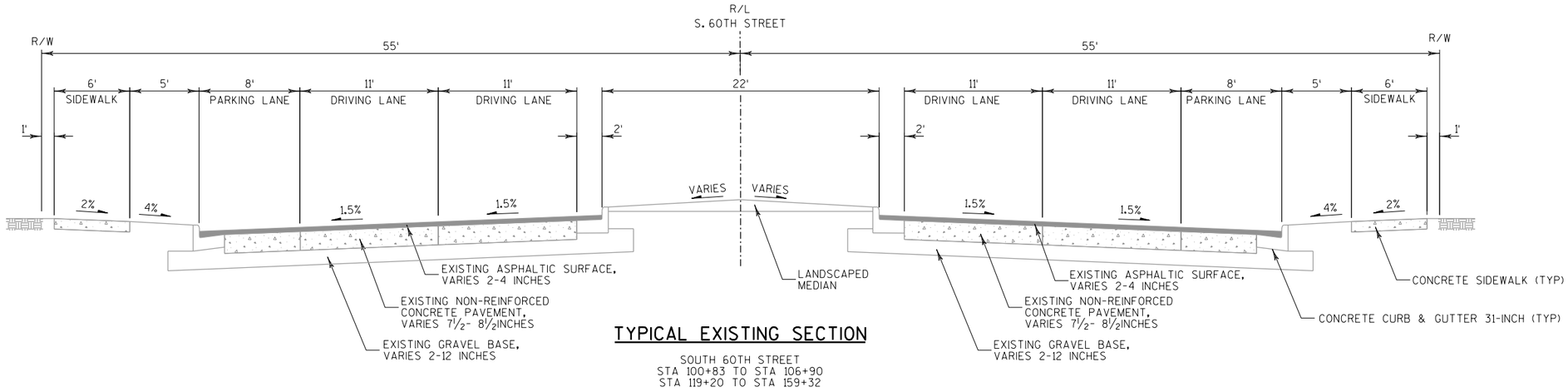
SIGNALS TO BE REPLACED

END CONSTRUCTION
I.D. 2415-00-71
STA. 160+01.78

END PROJECT
I.D. 2415-00-71
STA. 159+31.51

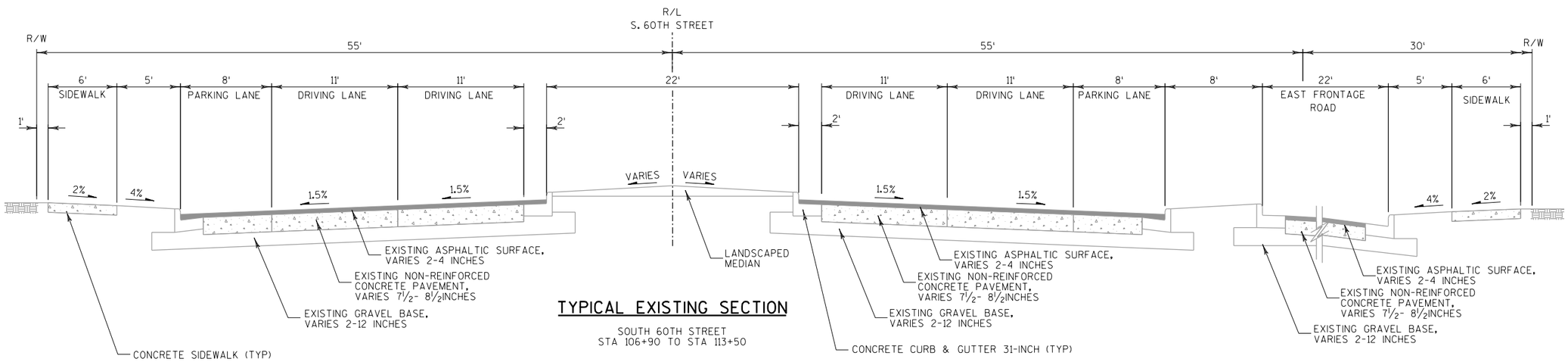
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 3	E

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TYPICAL EXISTING SECTION

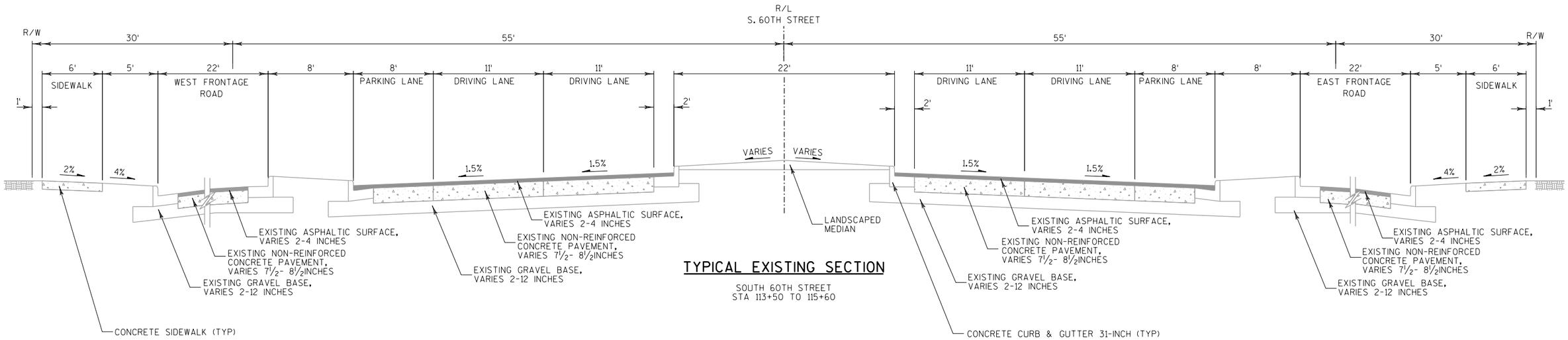
SOUTH 60TH STREET
STA 100+83 TO STA 106+90
STA 119+20 TO STA 159+32



TYPICAL EXISTING SECTION

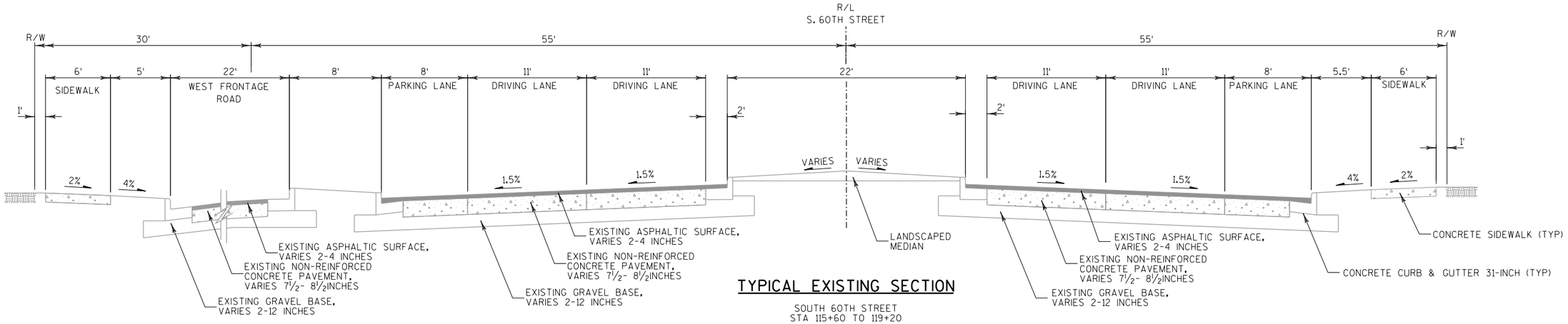
SOUTH 60TH STREET
STA 106+90 TO STA 113+50

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 4	E



TYPICAL EXISTING SECTION

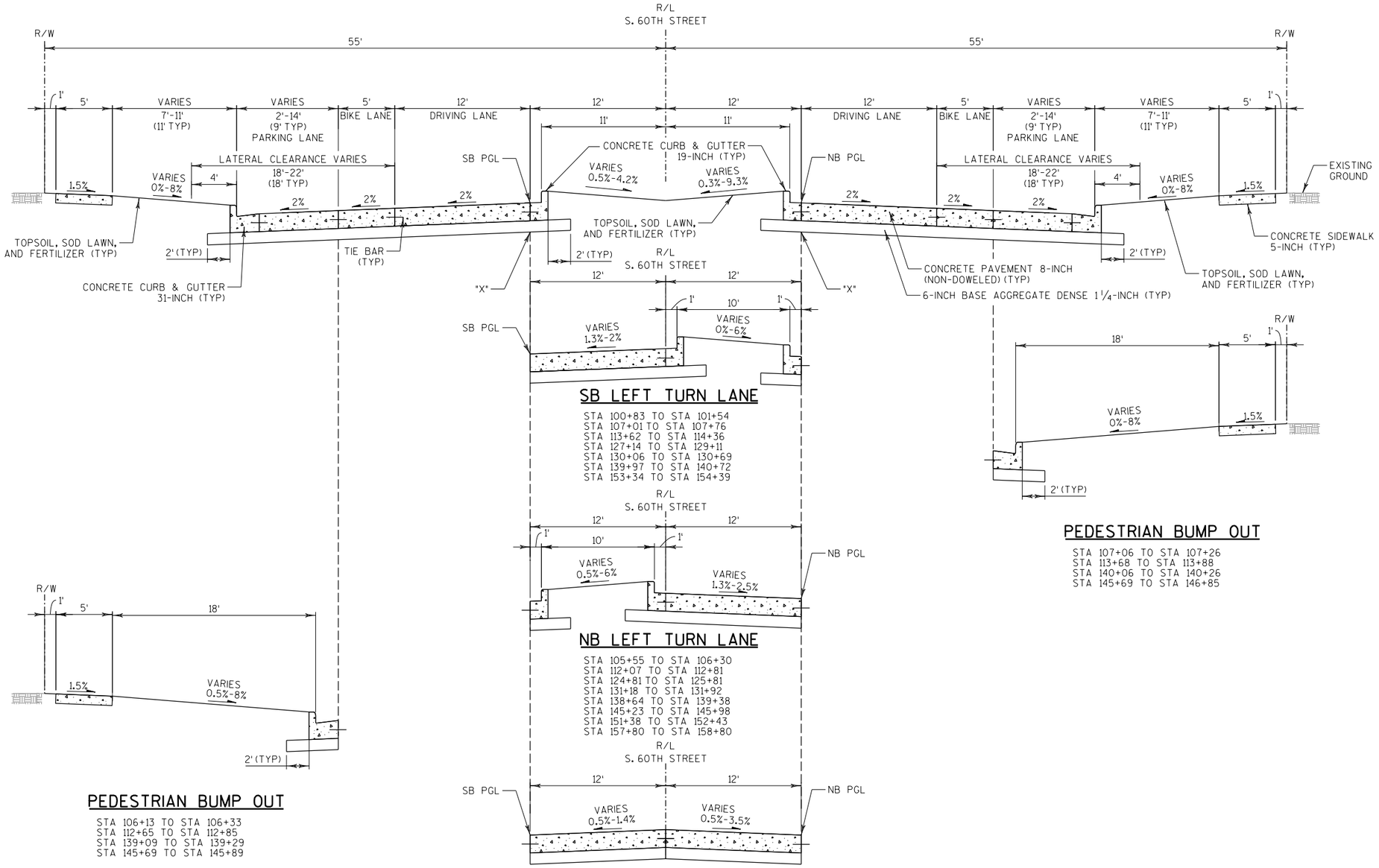
SOUTH 60TH STREET
STA 113+50 TO 115+60



TYPICAL EXISTING SECTION

SOUTH 60TH STREET
STA 115+60 TO 119+20

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 5	E



EBS NOTES:

1. POTENTIAL EBS
   STA 112+00 TO STA 116+00
   STA 149+00 TO STA 152+50
   STA 156+50 TO STA 160+00

2. EBS ESTIMATED TO BE 1' BELOW BASE COURSE

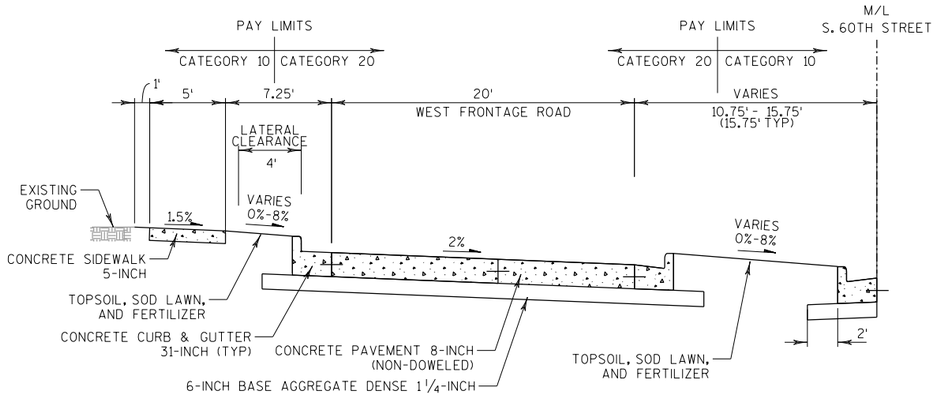
3. EBS TO BE REPLACED WITH BASE AGGREGATE DENSE 1 1/4-INCH

NB PGL = POINT REFERRED TO ON NORTHBOUND PROFILE
SB PGL = POINT REFERRED TO ON SOUTHBOUND PROFILE
"X" = SUBGRADE REFERRED TO ON CROSS SECTIONS

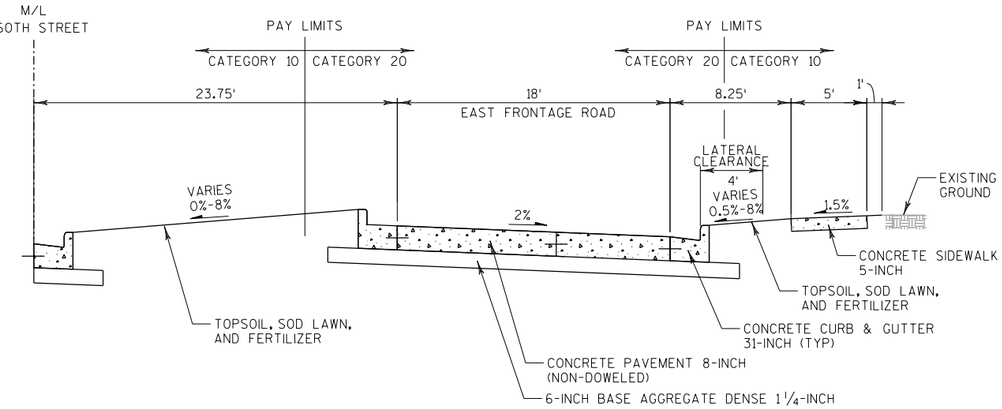
TYPICAL FINISHED SECTION
SOUTH 60TH STREET

STA 100+83 TO STA 125+82
STA 127+06 TO STA 159+32

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TYPICAL FINISHED SECTIONS	SHEET 6	E



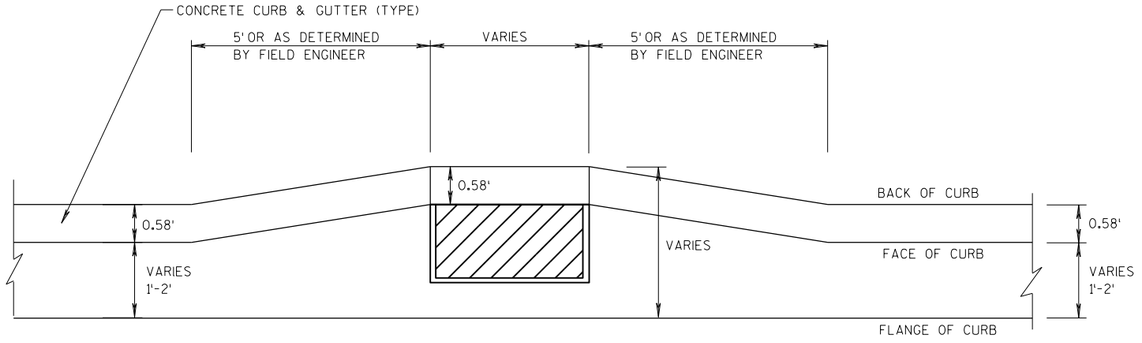
TYPICAL FINISHED SECTION
WEST FRONTAGE ROAD
STA 114+27 TO STA 119+08



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA 107+34 TO STA 111+84
STA 114+27 TO STA 115+52

SIGNED CONSTRUCTION PERMITS

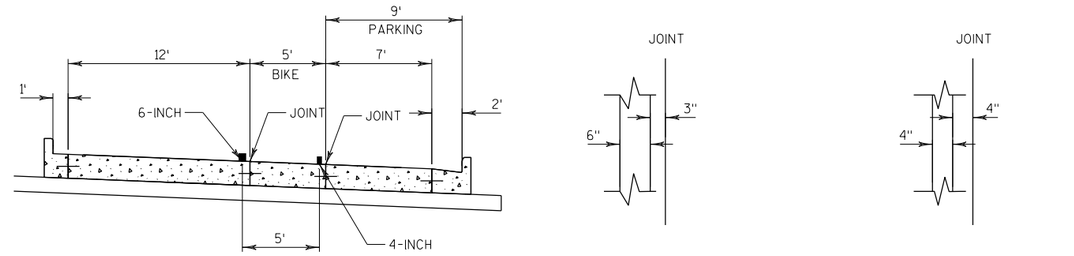
CP NUMBER	TAX KEY	ADDRESS	STATION	LOCATION
34	4901413000	6012 W. CLEVELAND AVENUE	153+29	LT
41	5141258100	2871 S. 60TH STREET	140+65	LT
43	5131012000	2782 S. 60TH STREET	146+09	RT
48	5140507110	3025-3027 S. 60TH STREET	130+91	LT
50	5130679000	2950 S. 60TH STREET	135+64	RT
55	5130680000	2942 S. 60TH STREET	136+19	RT
56	5130682000	2930 S. 60TH STREET	137+40	RT
58	5130676100	3000 S. 60TH STREET	132+90	RT
62	5130649000	3054 S. 60TH STREET	129+50	RT
65	5309999000	3100 S. 60TH STREET	125+50	RT
70	5309995000	3140 S. 60TH STREET	122+80	RT
83	5300104000	3278 S. 60TH STREET	113+84	RT
95	5291109000	3471 S. 60TH STREET	101+00	LT
96	5291110000	3463 S. 60TH STREET	101+66	LT
105	5309978000	5915 W. HOLT AVENUE	106+08	RT
106	5139961100	3038 S. 60TH STREET	130+59	RT
117	5130673000	2976 S. 60TH STREET	133+25	RT
119	5290810000	6000 W. OHIO AVENUE	113+75	LT
123	5300105000	3300 S. 60TH STREET	112+66	RT
135	5139978100	2700 S. 60TH STREET	152+00	RT
138	5309971000	3454 S. 60TH STREET	102+42	RT
153	5299977000	6001 W. OHIO AVENUE	112+75	LT
158	4901414000	2655 S. 60TH STREET	154+28	LT
159	5141001000	6001 W. MONTANA STREET	145+74	LT
163	5140506100	3201 S. 60TH STREET	120+00	LT
173	5300610000	3470 S. 60TH STREET	101+00	RT



CURB TRANSITION AT STORM SEWER INLET/MANHOLE DETAIL

STA 102+06, 38' RT (MANHOLE)
STA 102+95, 38' RT (INLET)
STA 104+10, 38' RT (MANHOLE)
STA 105+08, 38' RT (INLET)
STA 105+27, 2' RT (MMSD MANHOLE)
STA 106+25, 38' RT (INLET)
STA 109+75, 67 RT (INLET)
STA 114+13, 1' RT (MMSD MANHOLE)
STA 119+05, 38' RT (MANHOLE/INLET)
STA 122+03, 43' RT (INLET)
STA 122+51, 42' LT (INLET)
STA 124+36, 42' RT (MANHOLE/INLET)
STA 125+70, 42' LT (INLET)
STA 139+31, 9' LT (INLET)
STA 140+04, 2' RT (INLET)
STA 140+59, 1' RT (MMSD MANHOLE)
STA 148+07, 38' RT (MMSD MANHOLE)

NOTE: WIDENING IS INCIDENTAL TO CONCRETE CURB & GUTTER ITEMS

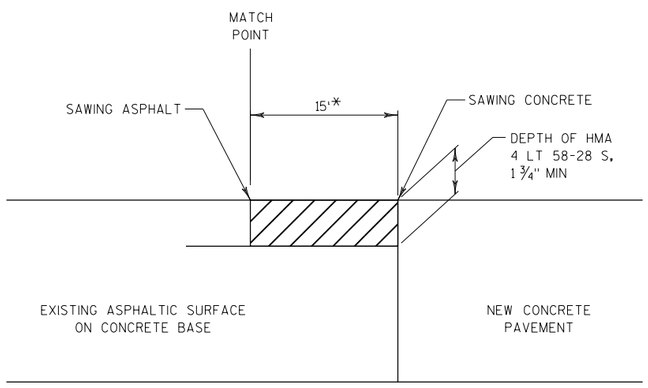


SECTION VIEW

PLAN VIEW AT 6-INCH PAVEMENT MARKING

PLAN VIEW AT 4-INCH PAVEMENT MARKING

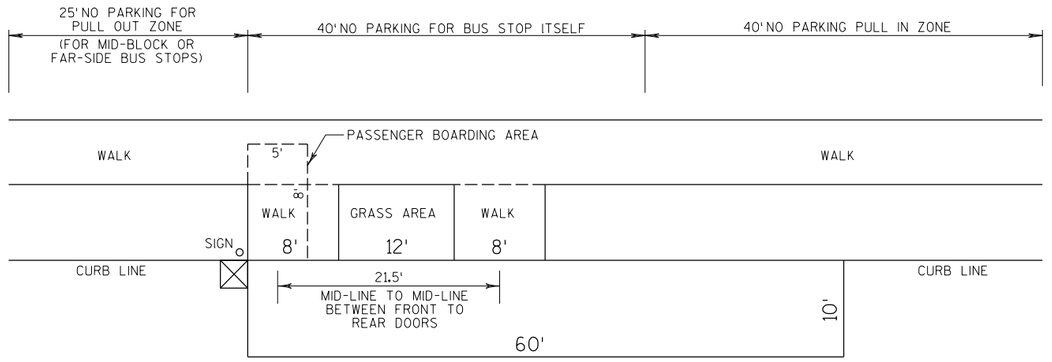
PAVEMENT MARKING DETAIL



REMOVING PAVEMENT BUTT JOINTS

*EXACT LIMITS TO BE LOCATED BY THE ENGINEER IN THE FIELD

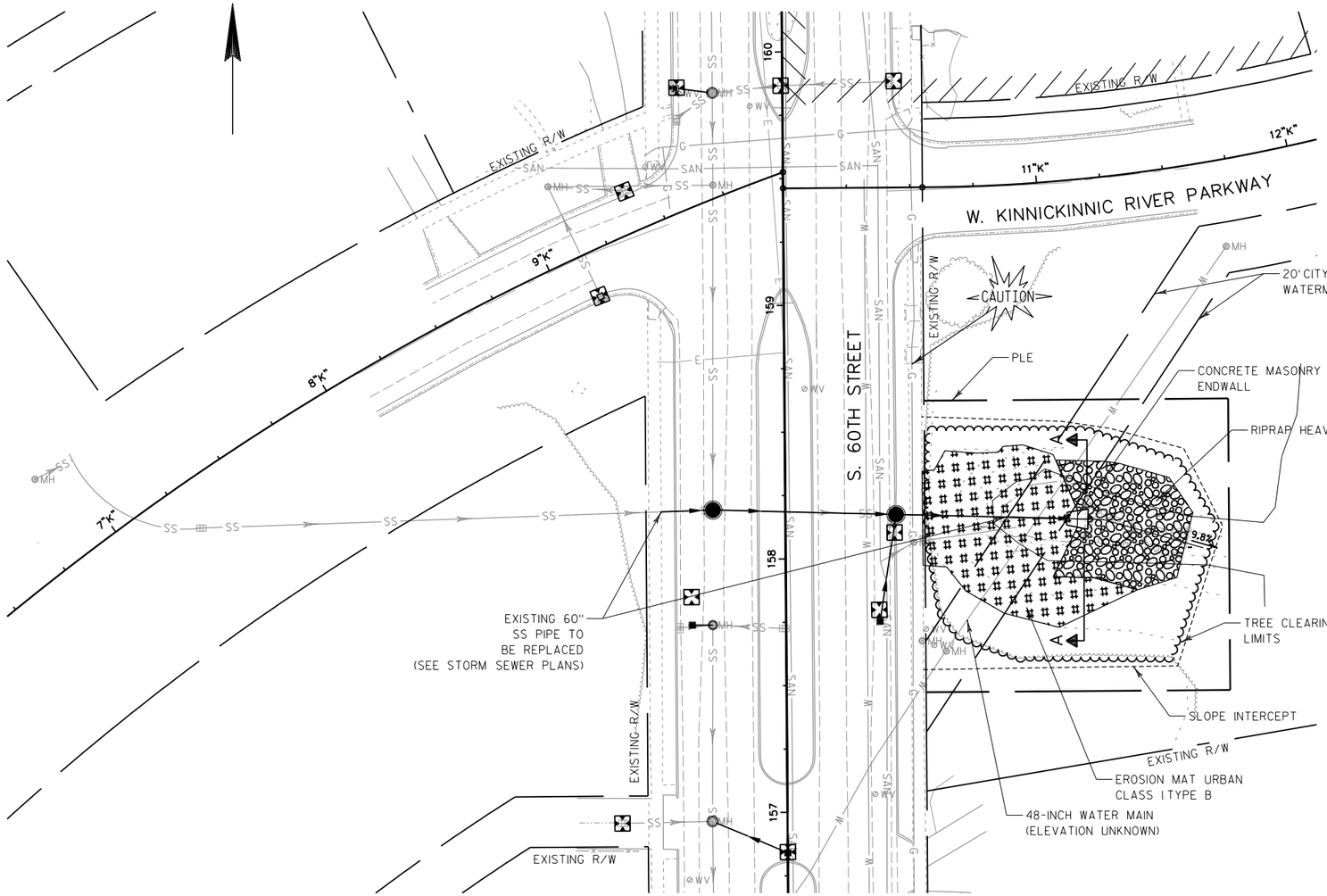
ASPHALTIC SURFACE BUTT JOINTS



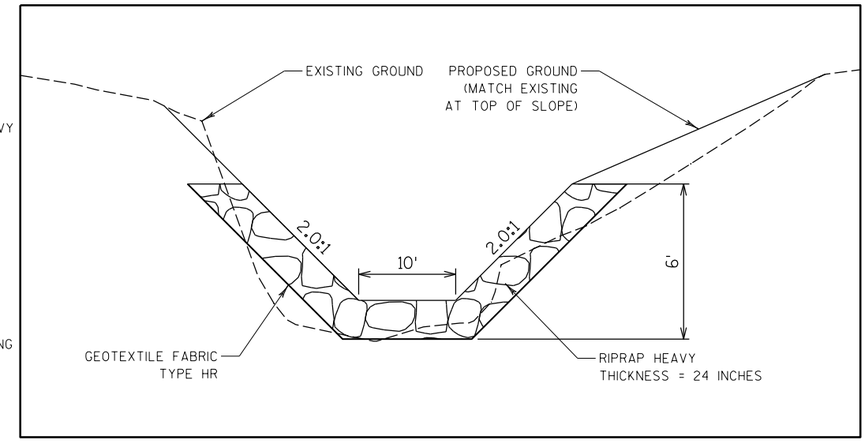
BUS STOP DETAIL

THE SLOPE OF THE PASSENGER BOARDING AREA MUST NOT EXCEED 2% MAX.

2



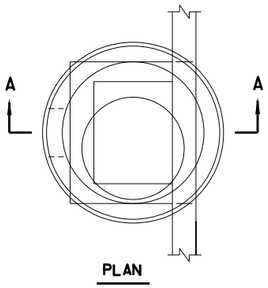
PLAN VIEW



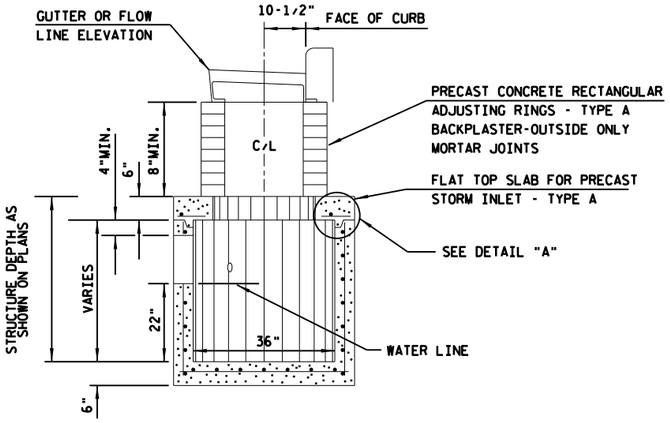
SECTION A-A

STORM SEWER OUTFALL DETAIL

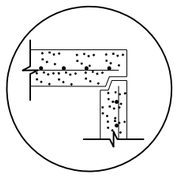
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 10	E



PLAN



SECTION A-A



detail "a"
top with tongue and groove joint

STORM INLET TYPE 45A

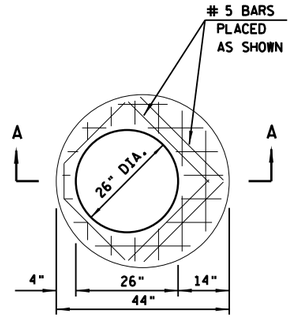
GENERAL NOTES

1. PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199 AND ASTM DESIGNATION C-478 AND THESE DETAILED REQUIREMENTS WHICH SHALL GOVERN WHERE THEY ALTER THE AASHTO AND ASTM STANDARDS.

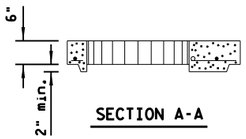
2. ALL REINFORCEMENT STEEL SHALL BE GRADE 60 OR GREATER AND EMBEDDED AT LEAST 1" CLEAR.

3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 4 IN DEPTH WHICH MEETS REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

4. SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON PLAN.



PLAN



SECTION A-A

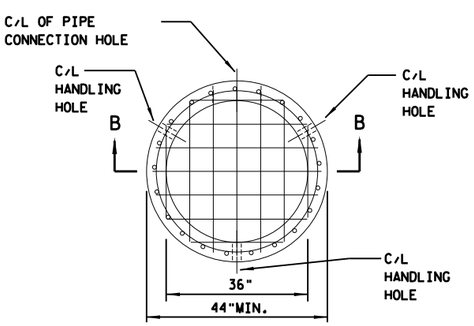
TOP SLAB - TYPE A

FLAT TOP SLAB SHALL BE 6" THICK REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED NEAR THE BOTTOM OF THE SLAB WITH 1" CLEAR COVER.

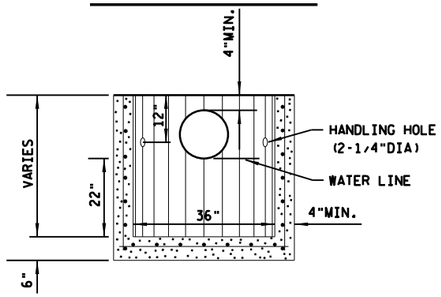
ADDITIONALLY, NO. 5 BARS SHALL BE PLACED AROUND TOP SLAB OPENING AS SHOWN.

REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

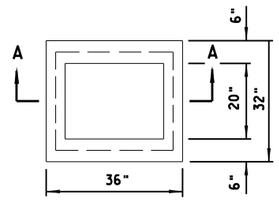
THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.



RISER SECTION WITH INTEGRAL BASE PLAN



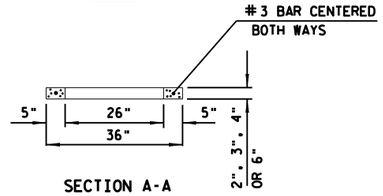
SECTION B-B



PLAN

THE ADJUSTING RINGS SHALL BE 2", 3", 4" OR 6" IN HEIGHT.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.



SECTION A-A

RECTANGULAR ADJUSTING RING - TYPE A

CIRCUMFERENTIAL AND LONGITUDINAL REINFORCEMENT IN THE RISER SECTON SHALL EACH CONSIST OF ONE LAYER OF STEEL NOT LESS THAN 0.12 SQ. IN. PER FOOT AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

THE BASE SLAB SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SQ. IN. PER FOOT IN BOTH DIRECTIONS, PLACED ABOVE THE MIDPOINT OF THE SLAB.

RISER SECTION AND BASE SLAB REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

TWO TO THREE HANDLING HOLES 2-1/4" IN DIAMETER AND A PIPE CONNECTION HOLE SHALL BE CAST OR CORED IN THE RISER SECTION AT THE LOCATIONS SHOWN. LIFTING DEVICES MAY BE SUBSTITUTED FOR HANDLING HOLES.

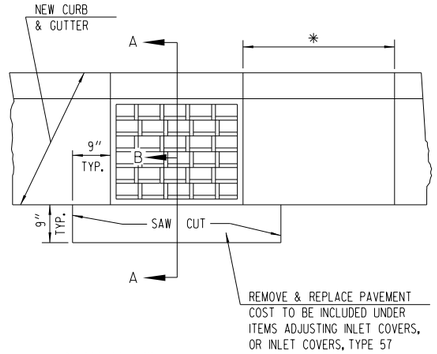
NO JOINTS OR HOLES SHALL BE BELOW THE WATERLINE.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.

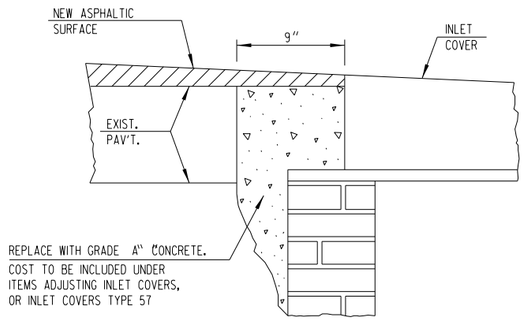
RISER SECTION MAY TAPER TO A 33" INTERNAL DIAMETER AT IT'S BOTTOM PROVIDED A 44" MINIMUM OUTSIDE DIAMETER IS MAINTAINED.

2

* REMOVE 3'-0 "CURB & GUTTER MIN. OR TO THE NEAREST JOINT, 6'-0 MAX. UNLESS OTHERWISE DIRECTED ON THE PLAN.

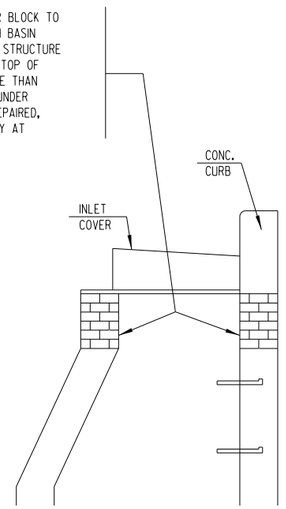


PLAN VIEW



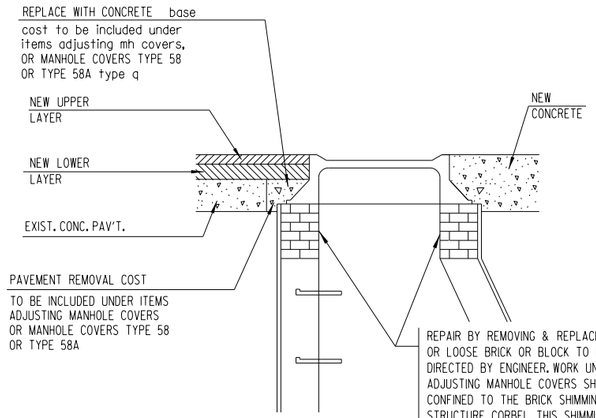
SECTION A-B

REPAIR BY REMOVING & REPLACING DAMAGED OR LOOSE BRICK OR BLOCK TO DEPTH AS DIRECTED BY ENGINEER. WORK UNDER ADJUSTING CATCH BASIN COVERS SHALL BE CONFINED TO THE BRICK SHIMMING ABOVE THE STRUCTURE CORBEL. THIS SHIMMING SHALL NOT EXCEED 1FOOT BETWEEN THE TOP OF THE CORBEL AND THE FRAME BOTTOM. ANY WORK MORE EXTENSIVE THAN DESCRIBED IMMEDIATELY ABOVE SHALL BE CONSTRUED AS WORK UNDER RECONSTRUCTING CATCH BASINS. DEPTHS OF BRICKWORK TO BE REPAIRED, AS INDICATED ON THE PLAN, ARE ESTIMATES ONLY AND MAY VARY AT TIME OF CONSTRUCTION.



SECTION A-A

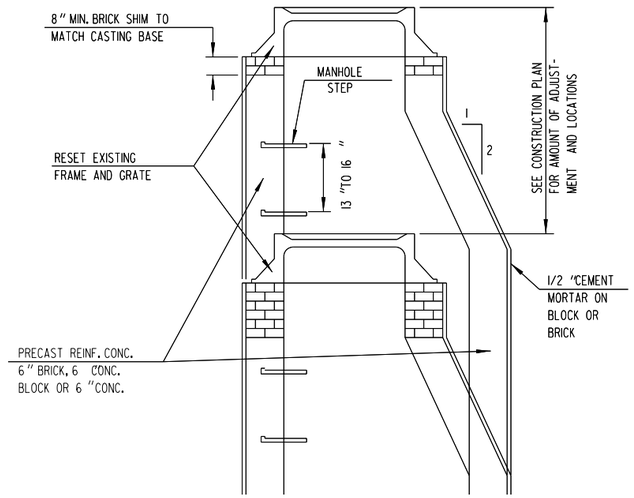
ADJUSTING INLET COVERS



REPAIR BY REMOVING & REPLACING DAMAGED OR LOOSE BRICK OR BLOCK TO DEPTH AS DIRECTED BY ENGINEER. WORK UNDER ADJUSTING MANHOLE COVERS SHALL BE CONFINED TO THE BRICK SHIMMING ABOVE THE STRUCTURE CORBEL. THIS SHIMMING SHALL NOT EXCEED 1FOOT BETWEEN THE TOP OF THE CORBEL AND THE FRAME BOTTOM. ANY WORK MORE EXTENSIVE THAN DESCRIBED IMMEDIATELY ABOVE SHALL BE CONSTRUED AS WORK UNDER RECONSTRUCTING MANHOLES. DEPTHS OF BRICK-WORK TO BE REPAIRED, AS INDICATED ON THE PLAN, ARE ESTIMATES ONLY AND MAY VARY AT TIME OF CONSTRUCTION.

ADJUSTING MANHOLE COVERS

OR MANHOLE COVERS TYPE 58A



CORBEL MAY BE REVERSED
STRAIGHT SIDE LEANED
SLIGHTLY TO CLEAR CURB HEAD.

REPAIR BY REMOVING AND REPLACING DAMAGED OR LOOSE BRICK OR BLOCK TO THE DEPTH AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. DEPTHS AS INDICATED ON PLAN ARE ESTIMATES ONLY AND MAY VARY AT TIME OF CONSTRUCTION.

RECONSTRUCTING MANHOLES

AND INLETS

CONSTRUCTION NOTES

1. LOCATIONS OF STRUCTURES IN CURB & GUTTER SECTIONS REFER TO FACE OF CURB.

2. LOCATIONS OF STRUCTURES NOT IN CURB AND GUTTER SECTIONS REFER TO CENTERLINE OF STRUCTURE.

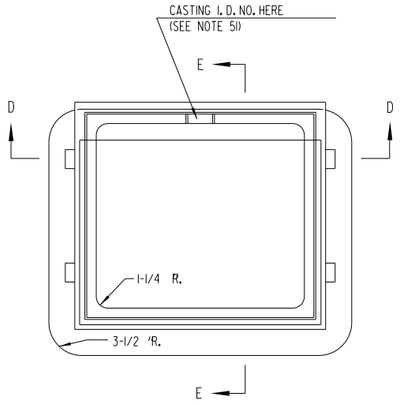
3. PIPE LENGTHS GIVEN ARE APPROXIMATE OUT TO OUT OF STRUCTURE.

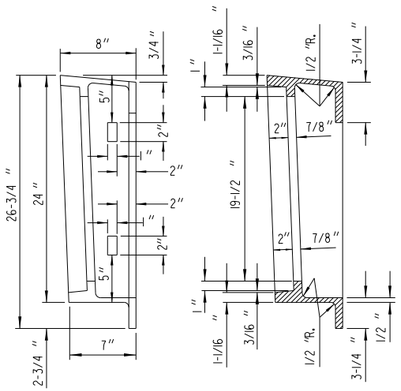
4. GRATE & RIM ELEVATIONS ARE GIVEN AT FLANGE LINE OF CURB & GUTTER OR AT CENTER-LINE OF MANHOLE COVER.

5. WHEN NEW COVERS ARE PLACED, THE FIRST 12 OF ADJUSTMENT OR REPAIRING SHALL BE INCLUDED IN THE COST OF THE NEW COVER. ANY ADJUSTMENT OR REPAIR OF BRICKWORK 12 OR LESS WILL BE PAID AS ADJUSTING COVERS WHEN RESETTING EXISTING COVERS, ANY ADJUSTMENT OR REPAIR OF BRICKWORK MORE THAN 12 " WILL BE PAID AS A RECONSTRUCT.

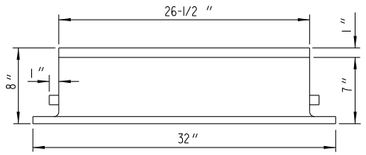
6. MANHOLE ADJUSTMENTS IN ASPHALTIC PAVEMENT WILL BE MADE AFTER THE LOWER LAYER IS PLACED.

7. WHEN CONSTRUCTING CONCRETE CURB ADJACENT TO INLET COVER TYPE 57, TWO (2) DEFORMED TIE BARS SHALL BE PLACED LONGITUDINALLY THROUGH THE CURB SECTION AND EXTENDED ONE (1) FOOT BEYOND EACH SIDE OF THE FRAME. A DUMMY JOINT SHALL BE CUT IN THE CURB AT EACH SIDE OF THE FRAME.

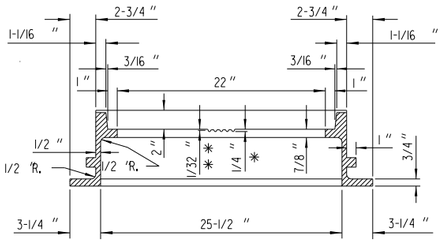




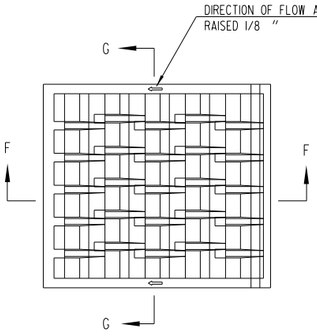
SECTION E-E



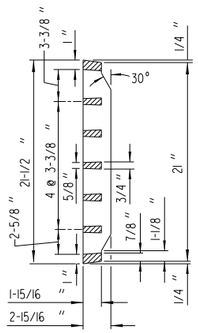
FRAME



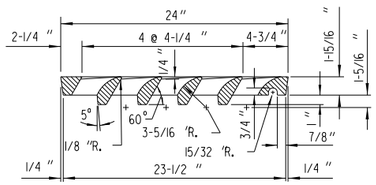
SECTION D-D



GRATE



SECTION G-G



SECTION F-F

GENERAL NOTES

ALL EDGES ARE TO BE GROUND

ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED 1/8 "

ON THE FRAME

1. ON THE UPPER FACE OF THE FLANGE IN 1INCH HIGH LETTERS THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.
2. ON THE SEAT OF THE FRAME IN 1INCH HIGH LETTERS, THE CASTING IDENTIFICATION NUMBER (51).

ON THE GRATE

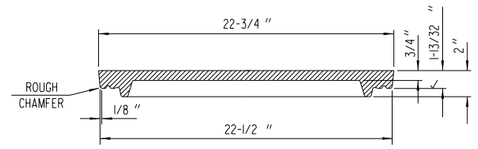
1. ON THE UPPER SIDE OF THE GRATE IN 1INCH HIGH LETTERS, THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE, THE CASTING IDENTIFICATION NUMBER (57) AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

* DEPRESSION FOR LETTERS

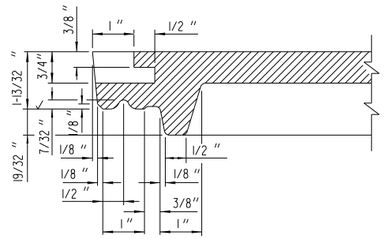
* * CLEARANCE FROM TOP OF LETTERS TO FACE OF SEAT

INLET COVER TYPE MS 57

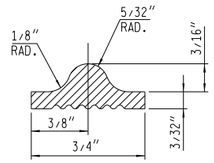
LID-145 LBS., FRAME-204 LBS.



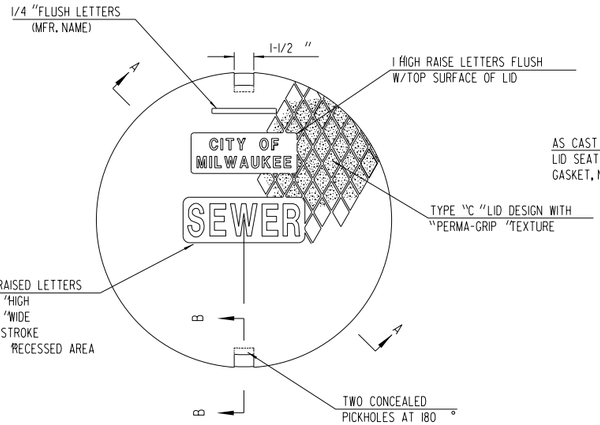
SECTION A-A



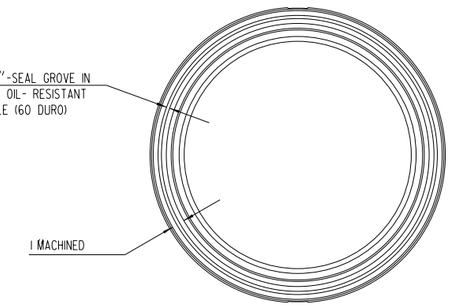
SECTION B-B



"T" GASKET DETAIL



TOP VIEW



BOTTOM VIEW

MANHOLE COVER TYPE MS 58-A

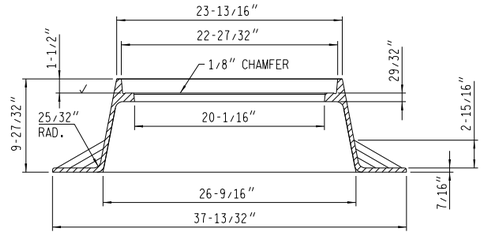
LID - 107 LBS.

NOTE:

ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED 1/8 " HAVING A DIGIT OR LETTER HEIGHT OF ONE INCH ON LOWER FACE OF LID:

1. THE INITIALS OR MONOGRAM OF THE FOUNDRY.
2. THE CONTRACT NUMBER AND YEAR MADE.
3. THE CASTING IDENTIFICATION NUMBER.
4. THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

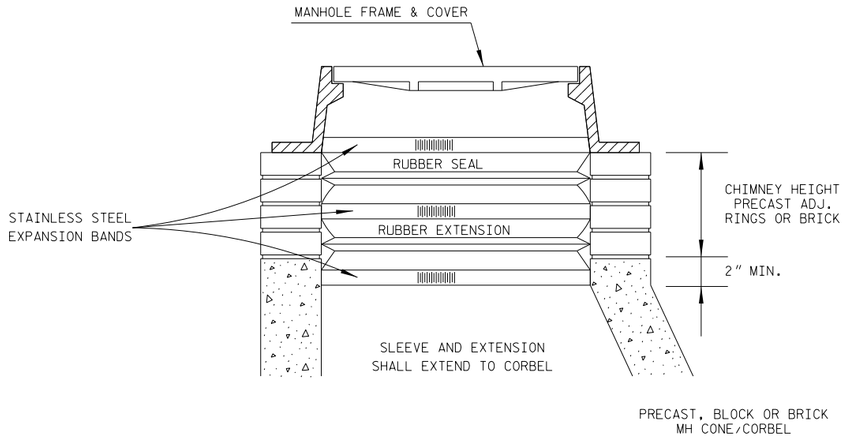
NOTE: ALL EXTERIOR EDGES SHALL BE GROUND.



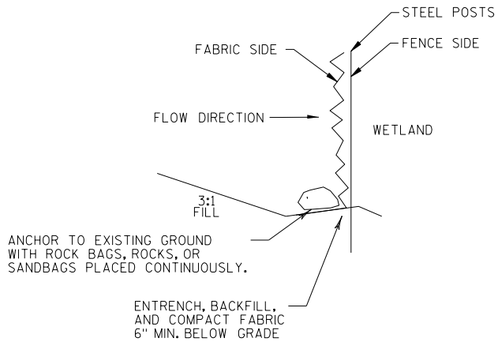
MANHOLE FRAME - TYPE MS21

FRAME - 182 LBS.

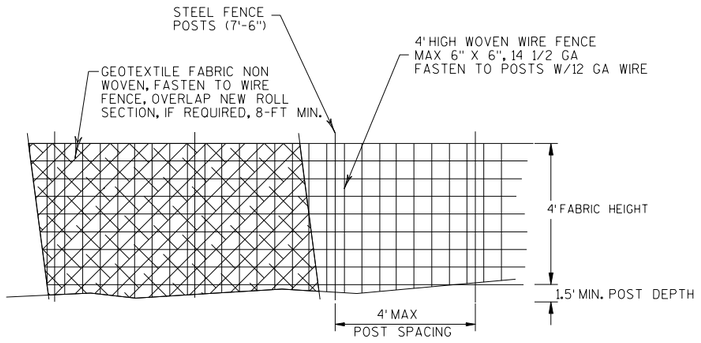
2



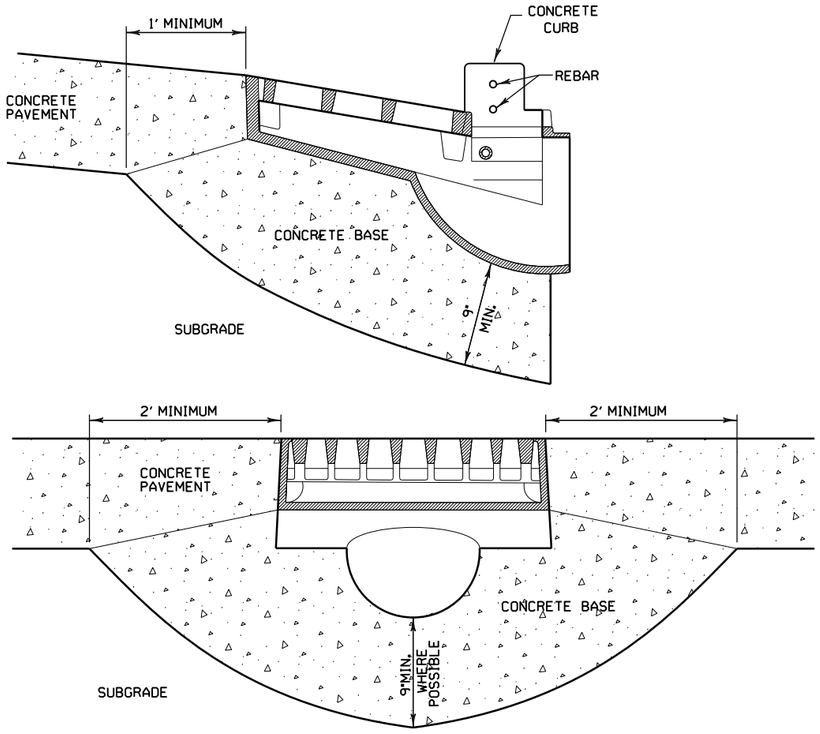
INTERNAL SANITARY MANHOLE SEAL



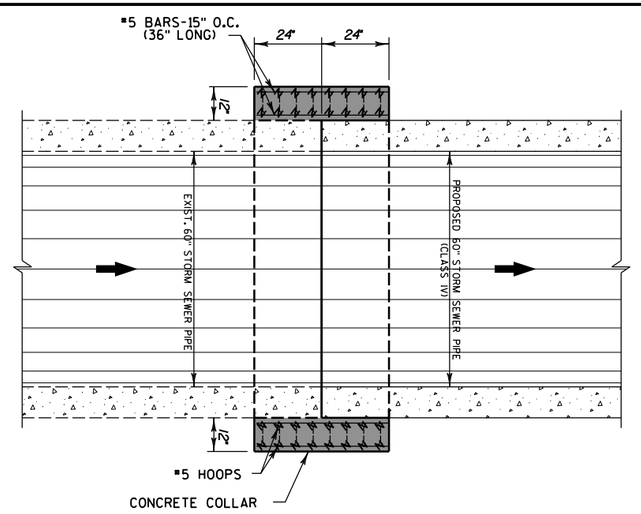
NOTE: ANCHOR MATERIAL INCIDENTAL TO HEAVY DUTY SILT FENCE ITEM



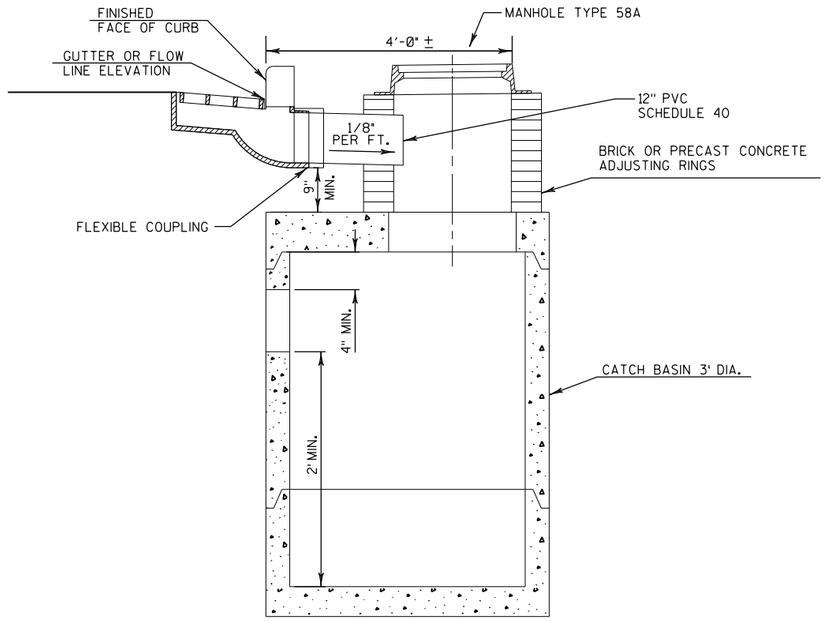
HEAVY DUTY SILT FENCE



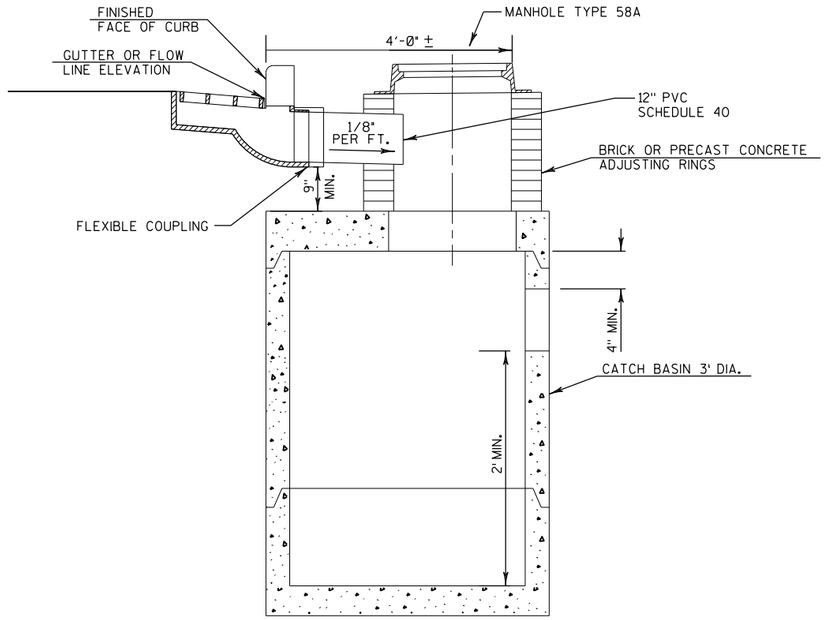
DETAIL OF CONCRETE PAVEMENT, CONCRETE BASE AND CURB ADJACENT TO CURB INLET 70A
(N.T.S.)



DETAIL OF REINFORCED CONCRETE COLLAR AT STA 158+19, LT



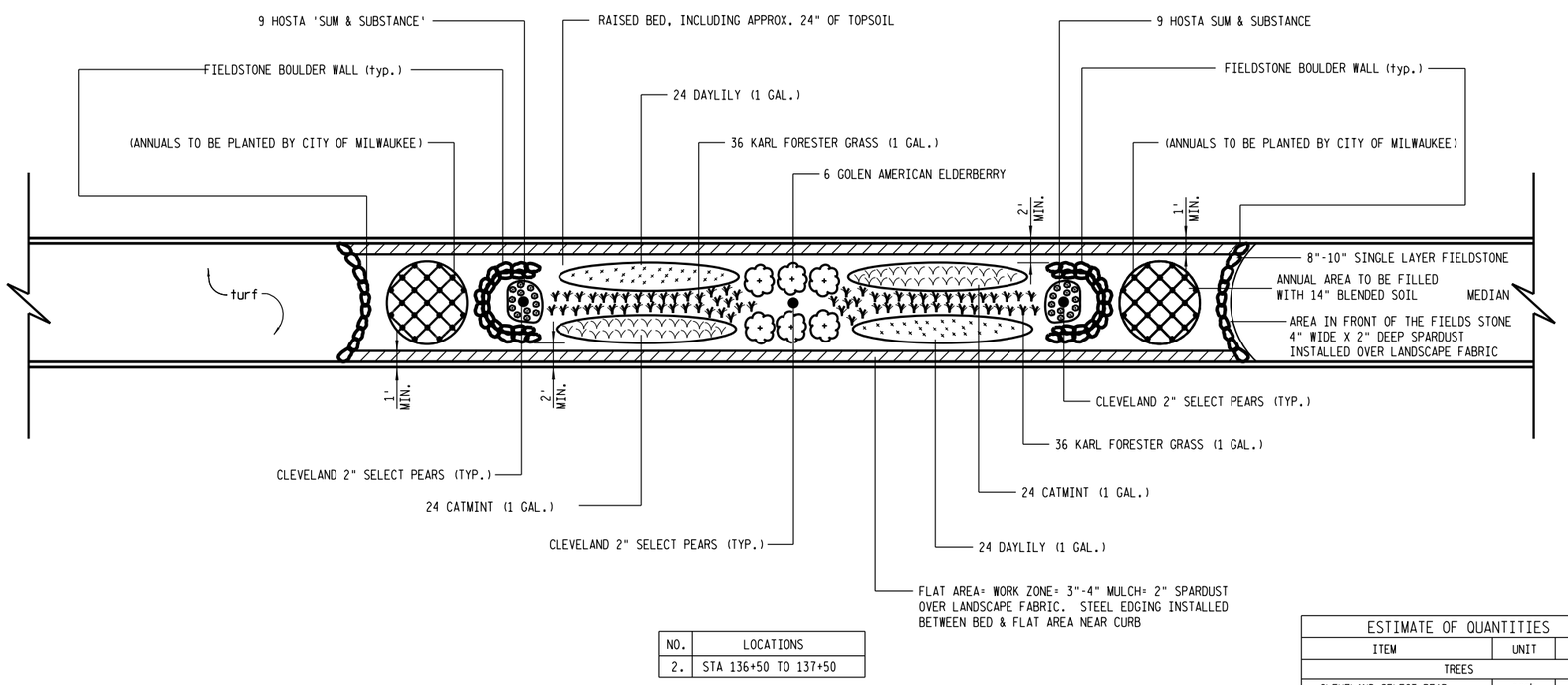
CURB INLET TYPE 70A AND KEY BASIN DETAIL
(N.T.S.)
(LATERAL ON THE SAME SIDE AS INLET)



CURB INLET TYPE 70A AND KEY BASIN DETAIL
(N.T.S.)
(LATERAL ON THE OPPOSITE SIDE OF INLET)

SIGNATURE BED DETAIL
(TYPE 2)

N



NO.	LOCATIONS
2.	STA 136+50 TO 137+50

ESTIMATE OF QUANTITIES		
ITEM	UNIT	TOTAL
TREES		
CLEVELAND SELECT PEAR	each	3
SHRUBS AND PERRENIALS		
KARL FORESTER GRASS	each	72
CATMINT BLUE WONDER	each	48
GOLDEN AMERICAN ELDERBERRY	each	6
DAY LILIES	each	48
ZAGREB COREOPSIS	each	18

NOTE:

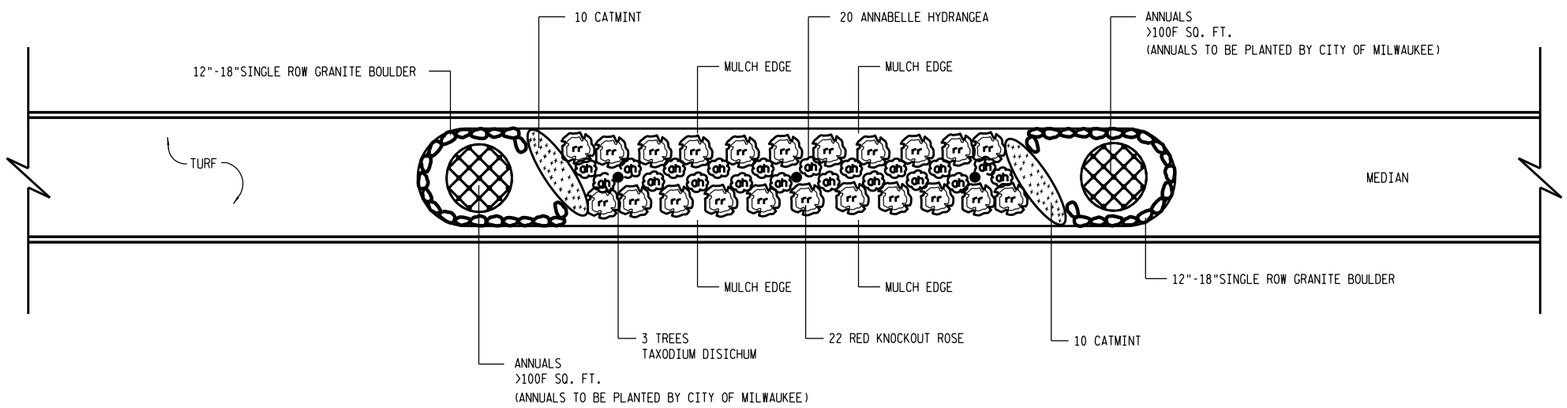
SHREDDED BARK MULCH AROUND
ALL TREES AND IN BED 3-4" DEPTH.
SHOVEL CUT BED EDGE.

2

2

SIGNATURE BED DETAIL
(TYPE 3)

N



LEGEND

RR	RED KNOCKOUT ROSE
AH	ANNABELLE HYDRANGEA

NO.	LOCATIONS
1.	STA 102+25 TO 103+10

NOTE:

IF SIZE ALLOWS - A MINIMUM
5' TURF BOARDER IS ACCEPTABLE.

SHREDDED BARK MULCH AROUND
ALL TREES AND IN BED 3-4" DEPTH.
SHOVEL CUT BED EDGE.

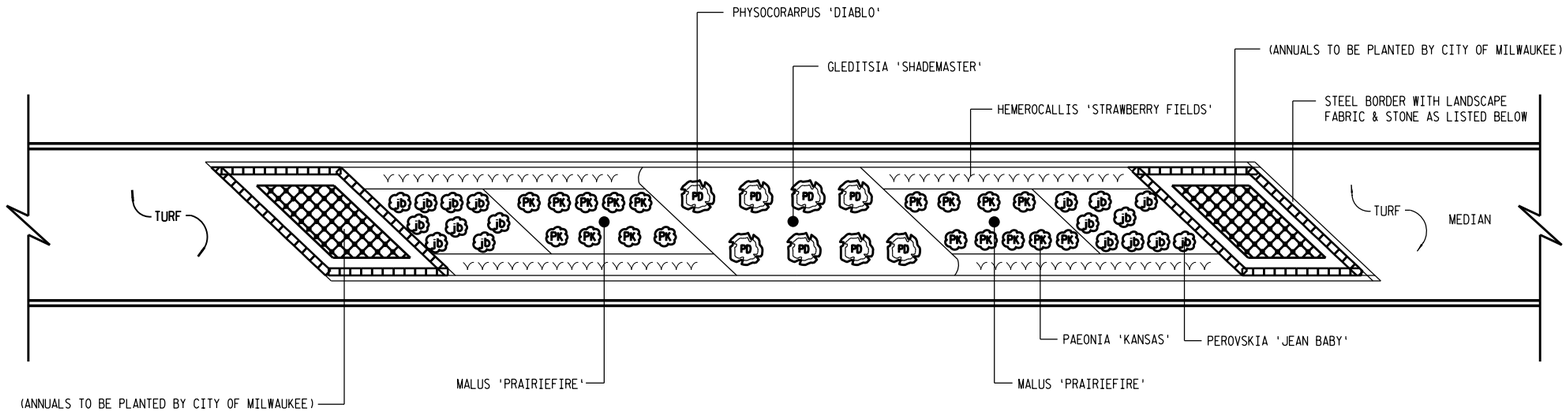
ESTIMATE OF QUANTITIES

ITEM	UNIT	TOTAL
SHRUBS AND PERRENIALS		
CATMINT 'BLUE WONDER'	each	20
HYDRANGEA 'ANNABELLE'	each	20
ROSE 'KNOCKOUT RED'	each	22
TREES		
TAXODIUM DISTICHUM 'BALD CYPRESS'	each	3

2

SIGNATURE BED DETAIL
(TYPE 4)

N



LEGEND

PK	PAEONIA 'KANSAS'
PD	PHYSOCARPUS 'DIABLO'
JB	PEROVSKIA 'JEAN BABY'

NO.	LOCATIONS
3.	STA 149+50 TO 150+50

note:

RAISED ANNUAL BEDS 10'X12' CONSTRUCTED OF LIMESTONE BLOCKS - 4"X8"X12" IN SIZE FRONT WALL IS 18" ABOVE GRADE WITH SIDE WALLS GRADUATING UP TO MEET BACK WALL. AREA TO BE FILLED WITH 18" OF BLENDED SOIL.

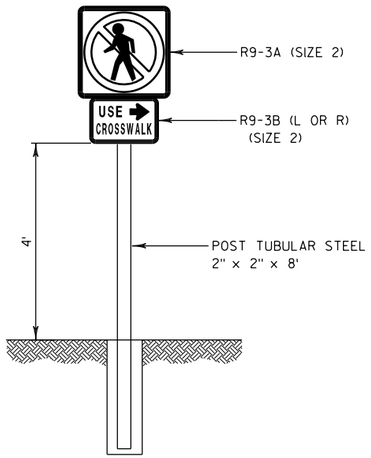
PERENNIAL AREA IS TO BE FILLED WITH 18" OF BLENDED SOIL, SLOPING DOWN TO GRADE. AT GRADE, 2' FROM CURB, STEEL EDGING WILL BE INSTALLED. LANDSCAPE FABRIC WILL BE INSTALLED IN THE 2' FLAT BORDER & 2" OF RAVEN BLACK IN 1.5" SIZE STONE.

SHREDDED BARK MULCH AROUND ALL TREES AND IN BED 3-4" DEPTH. SHOVEL CUT BED EDGE.

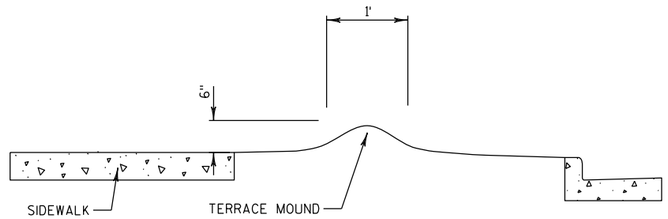
ESTIMATE OF QUANTITIES

ITEM	UNIT	TOTAL
SHRUBS AND PERRENIALS		
PAEONIA 'KANSAS'	each	18
PHYSOCARPUS 'DIABLO'	each	8
PEROVSKIA 'JEAN BABY'	each	18
HEMEROCALLIS 'STRAWBERRY FIELDS'	each	64
TREES		
GLEDITSIA 'SHADEMASTER'	each	1
MALUS PRARIEFIRE	each	2

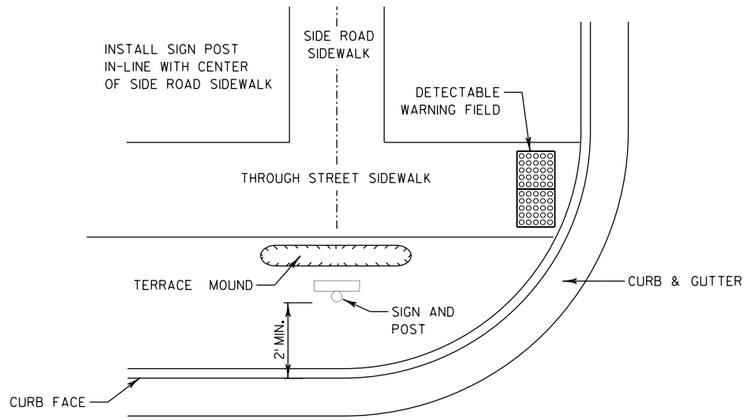
2



CROSSWALK CLOSURE SIGN



TERRACE MOUND DETAIL

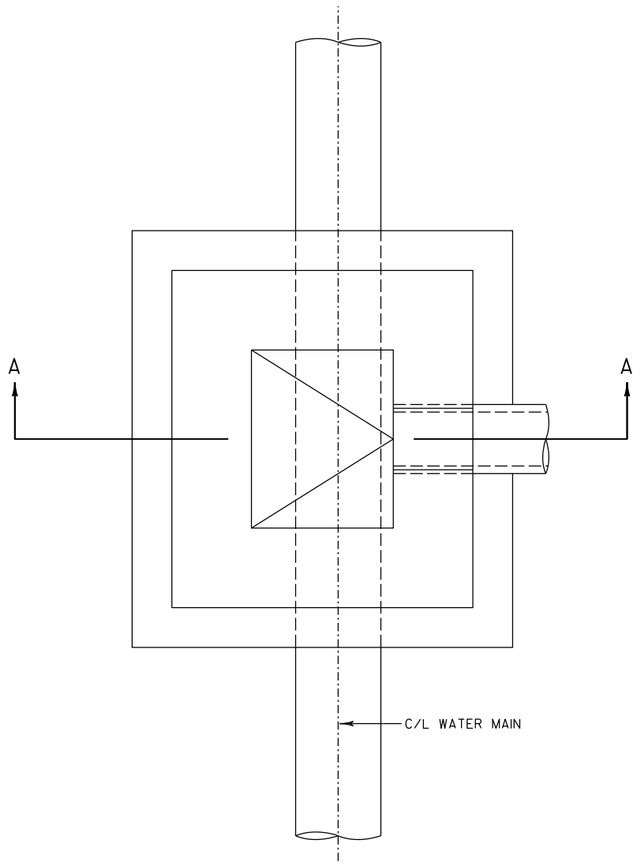


MOUND AND SIGN LOCATION DETAIL

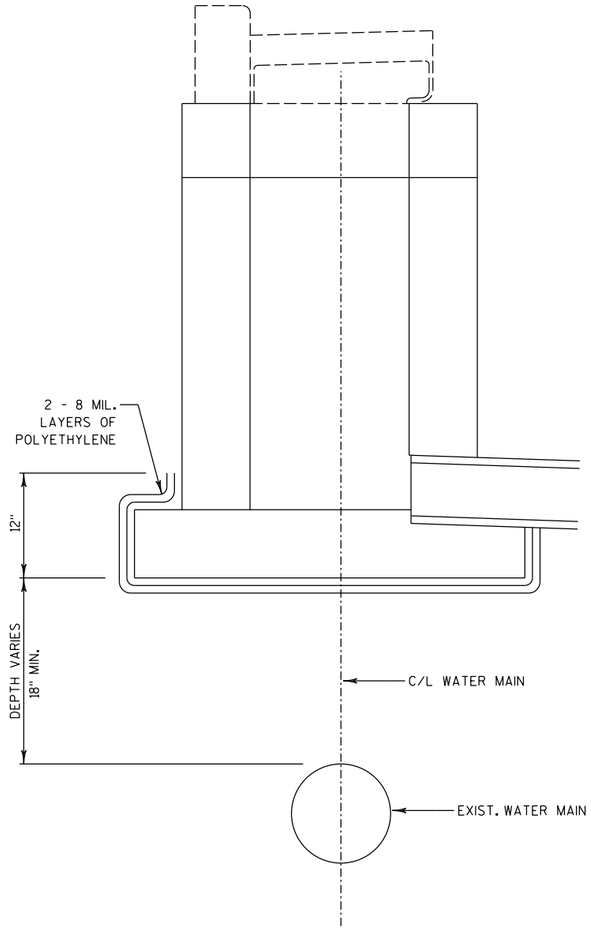
STA 129+58 RT
STA 146+54 LT

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 19	E

2



PLAN VIEW

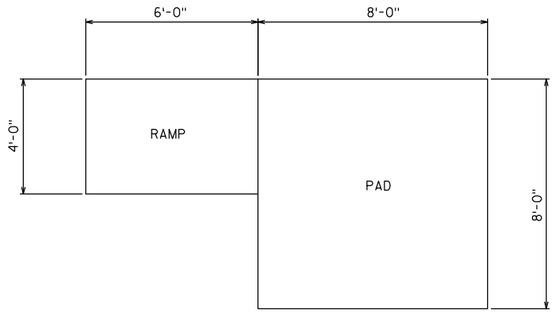


SECTION A-A

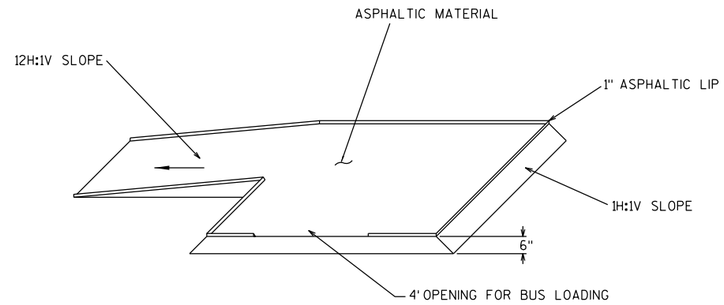
WATER MAIN PROTECTION

INSTALL ON ALL CATCH BASINS OR INLETS WITH
LESS THAN 24" HORIZONTAL OUT-TO-OUT CLEARANCE
FROM STRUCTURE TO WATER MAIN

2



NOTE:
RAMP MAY BE LONGER
IF ROADWAY SLOPE REQUIRES



NOTE:
RAMP SHALL BE PLACED TO FACE
TOWARDS PEDESTRIAN CROSSING

TEMPORARY BUS LOADING ZONE

PEDESTRIAN TRAFFIC CONTROL NOTES

ALL PEDESTRIAN TRAFFIC CONTROL MUST BE PLACED PRIOR TO THE START OF ANY SIDEWALK WORK FOR EACH STAGE.

ANY MID-BLOCK SIDEWALK REMOVALS MUST HAVE TEMPORARY ACCOMODATIONS PLACED IMMEDIATELY UPON REMOVAL. SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMODATION".

TRAFFIC CONTROL FOR CONSTRUCTION OF CURB RAMPS AND ADJOINING PAVEMENT SHALL BE PLACED PER SDD "TRAFFIC CONTROL SINGLE LANE CLOSURE NON-FREEWAY\EXPRESSWAY".

TEMPORARY OR PERMANANT ACCOMODATIONS MUST BE PLACED AT ANY AREA OF SIDEWALK REMOVALS BEFORE ANOTHER AREA OF REMOVALS MAY BEGIN.

PEDESTRIAN ACCOMODATIONS MUST BE PROVIDED TO ALL RESIDENCES AND BUSINESSES USING EXISTING, NEWLY CONSTRUCTED OR TEMPORARY ACCOMODATIONS DURING ALL STAGES OF CONSTRUCTION.

STAGE 3

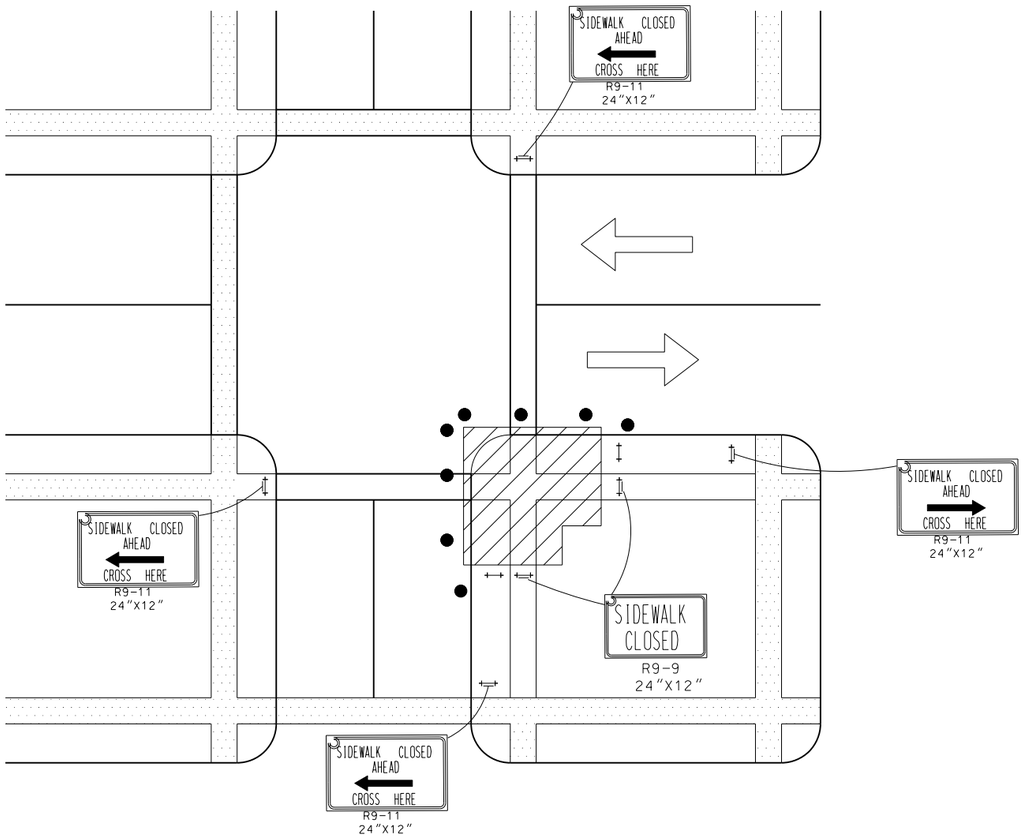
STAGE 3 WILL INCLUDE THE REMOVAL OF ASPHALTIC SURFACE TEMPORARY AND THE CONSTRUCTION OF PROPOSED SIDEWALK.

SEE THE PEDESTRIAN RAMP DETAILS FOR ADDITIONAL INFORMATION.

PEDESTRIAN RAMPS WILL BE RECONSTRUCTED DURING STAGE 3. TO ENSURE PEDESTRIAN ACCOMMODATIONS REMAIN AVAILABLE THE RAMPS HAVE BEEN DIVIDED INTO 3 GROUPS. EACH GROUP OF RAMPS MAY BE COMPLETED CONCURRENTLY BUT ALL RAMPS IN A GROUP MUST BE COMPLETE BEFORE STARTING WORK ON ANY OTHER RAMP.

INTERSECTION DETAIL - STAGE 3

W. HOLT AVE.
W. OHIO AVE.
W. STACK DR.
W. MONTANA ST.



WORK AREA

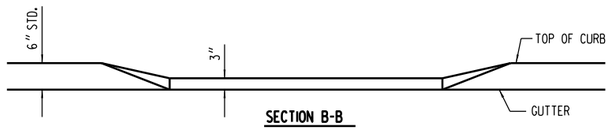
UNDER PEDESTRIAN TRAFFIC

TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)

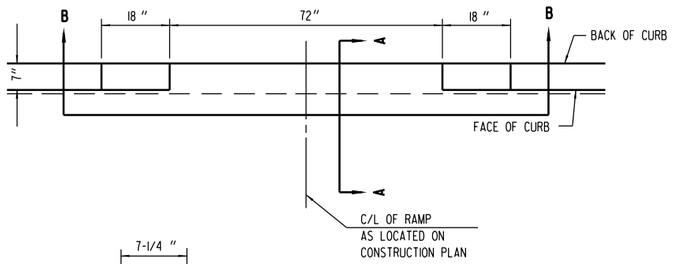
DIRECTION OF TRAFFIC

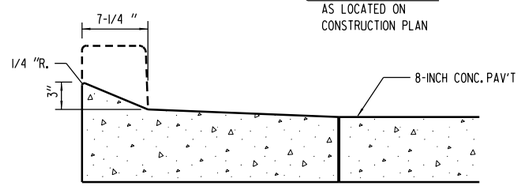
TRAFFIC CONTROL DRUM

2



SECTION B-B



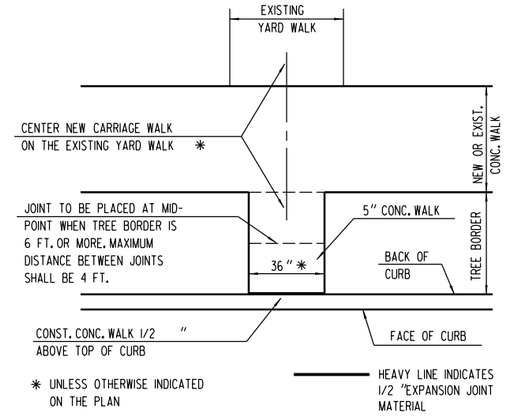


SECTION A-A

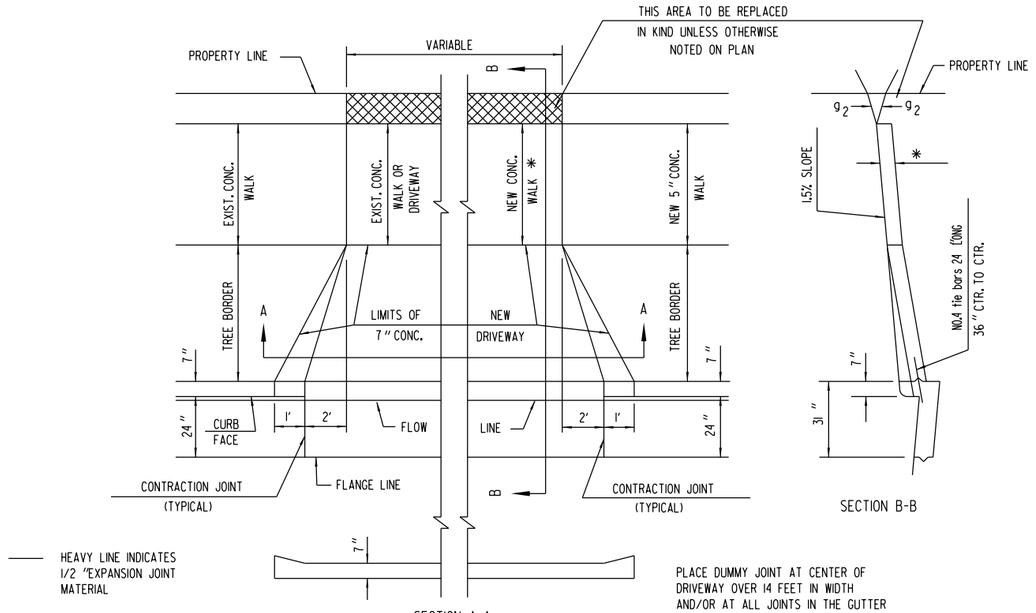
MAINTENANCE RAMP

STA 103+50 (LT)
STA 107+50 (RT, EAST FRONTAGE ROAD)
STA 109+75 (RT, EAST FRONTAGE ROAD)
STA 111+00 (LT)
STA 114+50 (RT, EAST FRONTAGE ROAD)
STA 114+50 (LT, WEST FRONTAGE ROAD)
STA 118+50 (LT)
STA 121+50 (LT)
STA 123+50 (LT)
STA 129+50 (LT)
STA 131+00 (LT)
STA 133+00 (LT)
STA 142+00 (LT)
STA 147+00 (LT)
STA 149+50 (LT)
STA 155+75 (LT)

NOTE: LOCATION OF MAINTENANCE RAMPS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE FIELD ENGINEER TO FIT FIELD CONDITIONS.



CARRIAGE WALK



HEAVY LINE INDICATES 1/2 "EXPANSION JOINT MATERIAL

PLACE DUMMY JOINTS AT CENTER OF DRIVEWAY AND/OR AT ALL JOINTS IN THE GUTTER

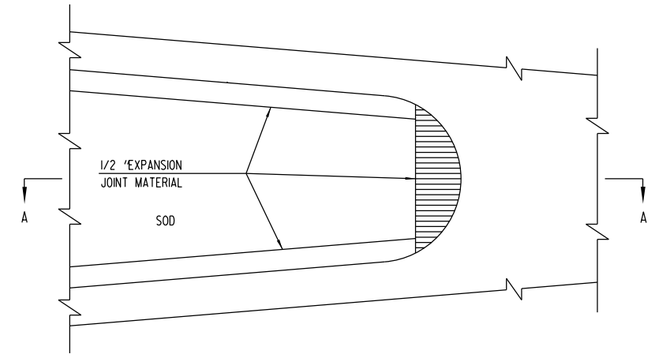
PLACE DUMMY JOINT AT CENTER OF DRIVEWAY OVER 14 FEET IN WIDTH AND/OR AT ALL JOINTS IN THE GUTTER

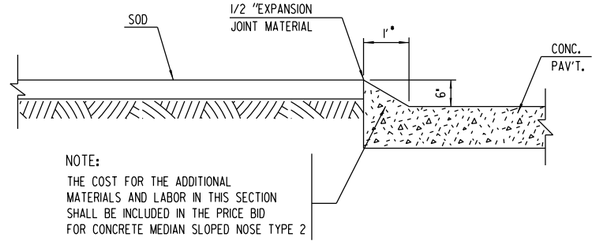
FLARED CONCRETE DRIVEWAY

maximum difference between g_1 & g_2 not to exceed 15%
desirable maximum = 10%

maximum difference between g_1 & g_2 in fill = 14%

* LOCATIONS PER PLAN: USE 7" CONC. FOR BUSINESS PROPERTY AND 5" CONC. FOR RESIDENTIAL PROPERTY.





NOTE:
THE COST FOR THE ADDITIONAL MATERIALS AND LABOR IN THIS SECTION SHALL BE INCLUDED IN THE PRICE BID FOR CONCRETE MEDIAN SLOPED NOSE TYPE 2

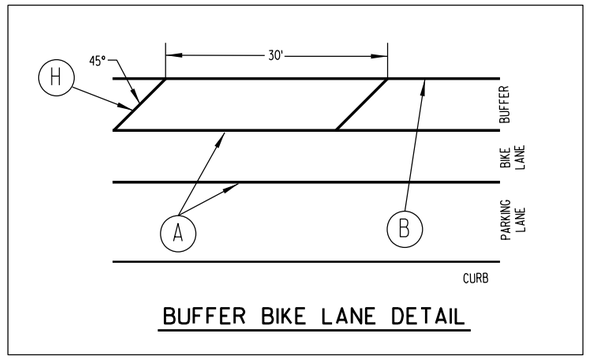
SECTION A-A

* 2' FOR RADII 10' OR LARGER

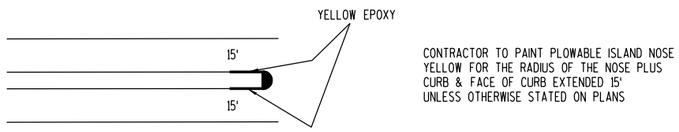
SNOWPLOWABLE MEDIAN ISLAND NOSE

(TYPICAL SECTION OF CONCRETE CURB & GUTTER TO BE CONSTRUCTED AT END OF MEDIAN ISLAND)

2

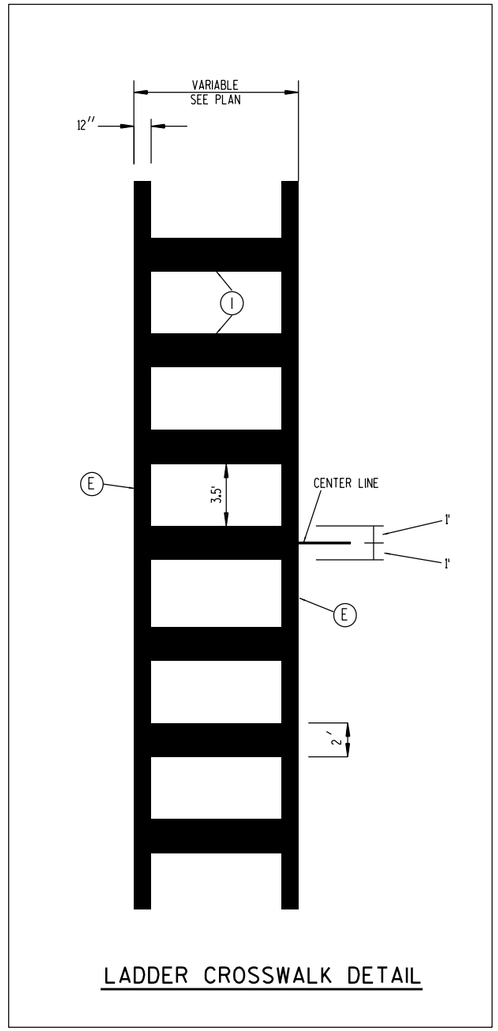


BUFFER BIKE LANE DETAIL



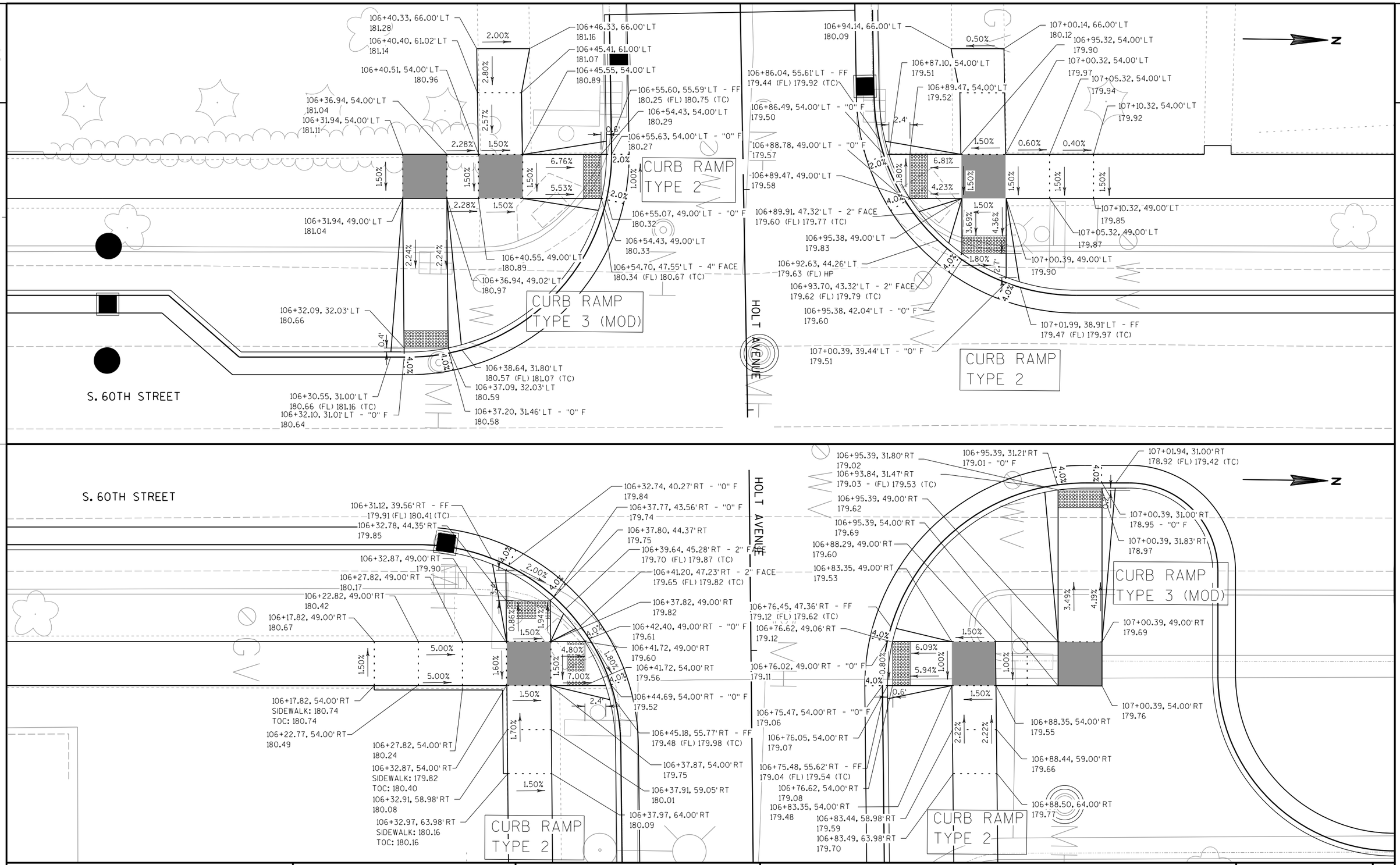
CONTRACTOR TO PAINT PLOWABLE ISLAND NOSE YELLOW FOR THE RADIUS OF THE NOSE PLUS CURB & FACE OF CURB EXTENDED 15' UNLESS OTHERWISE STATED ON PLANS

PLOWABLE ISLAND NOSE DETAIL (TYPICAL)



LADDER CROSSWALK DETAIL

(B) MARKING LINE EPOXY 6-INCH (WHITE)
(E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
(H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
(I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LATTER PATTERN 24-INCH



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 26 E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\021002_cd.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42

2

N

W. OHIO AVENUE

CURB RAMP TYPE 2

112+92.78, 64.00'LT
SIDEWALK: 164.31
TOC: 164.31

112+92.93, 59.00'LT
SIDEWALK: 164.10
TOC: 164.28

112+97.79, 64.00'LT
164.16

112+97.93, 59.00'LT
164.00

112+98.08, 54.00'LT
163.84

112+93.07, 54.17'LT
SIDEWALK: 163.91
TOC: 164.13

112+87.45, 54.00'LT
TOC: 164.30
SIDEWALK: 164.50

112+82.45, 54.00'LT
SIDEWALK: 164.37
TOC: 164.56

112+72.45, 54.00'LT
SIDEWALK: 164.84
TOC: 164.84

113+07.47, 55.60'LT - FF
163.15 (FL) 163.65 (TC)

113+06.35, 54.00'LT
163.28

113+06.91, 54.00'LT
163.27

113+07.50, 54.00'LT
- "0" F
163.26

113+06.92, 48.87'LT
- - "0" F 163.36

113+06.35, 49.00'LT
163.37

113+06.52, 47.37'LT - 4" FACE
163.33 (FL) 163.66 (TC)

112+98.08, 49.00'LT
163.77

112+93.08, 49.00'LT
163.84

112+72.45, 49.00'LT
164.77

112+82.45, 49.00'LT
164.30

CURB RAMP TYPE 3 (MOD)

112+87.45, 49.00'LT
164.23

112+87.45, 31.78'LT
164.01

112+87.52, 31.20'LT
- "0" F
164.00

112+89.07, 31.46'LT - 4" FACE
163.93 (FL) 163.26 (TC)

112+82.45, 31.78'LT
164.11

112+82.45, 31.58'LT
164.10

112+82.45, 31.00'LT - "0" F
164.09

112+80.83, 31.00'LT - FF
164.12 (FL) 164.62 (TC)

3.00%
2.00%
4.00%
3.20%
1.50%
4.70%
4.70%
7.00%
7.00%
7.00%
4.47%
2.00%
FLAT
1.10%
1.28%
1.8%
4.0%

113+46.67, 74.07'LT
164.03

113+51.68, 74.00'LT
164.10

113+47.38, 69.00'LT
163.97

113+52.38, 69.00'LT
164.04

113+37.87, 55.58'LT - FF
163.16 (FL) 163.66 (TC)

113+48.08, 64.00'LT
163.72

113+53.08, 64.00'LT
163.79

113+48.79, 59.00'LT
163.47

113+53.79, 59.00'LT
163.54

113+38.93, 54.00'LT
162.94

113+49.49, 54.00'LT
163.05

113+54.49, 54.00'LT
163.12

113+38.38, 54.00'LT
- "0" F
162.93

113+41.29, 54.00'LT
162.97

113+62.49, 54.00'LT
162.99

113+62.49, 49.00'LT
162.92

113+40.80, 49.00'LT
- "0" F
162.88

113+41.70, 47.37'LT - 3" FACE
162.91 (FL) 163.16 (TC)

113+49.49, 49.00'LT
162.98

113+54.49, 49.00'LT
163.05

BUS STOP

113+70.49, 49.00'LT
162.80

113+47.85, 41.61'LT - 3" FACE
162.63 (FL) 162.88 (TC)

113+49.49, 41.32'LT
162.69

113+49.21, 40.81'LT - "0" F
162.68

CURB RAMP TYPE 2

113+54.49, 41.32'LT
162.56

113+54.49, 39.34'LT
162.53

113+54.34, 38.77'LT - "0" F
162.52

113+62.49, 38.58'LT - FF
162.31 (FL) 162.81 (TC)

113+70.49, 38.58'LT
162.14 (FL) 162.64 (TC)

113+82.49, 38.58'LT
161.88 (FL) 162.38 (TC)

113+73.90, 54.00'LT
162.74

113+82.49, 49.00'LT
162.55

113+90.47, 54.00'LT
162.50

113+94.63, 49.00'LT
162.37 (TC)

1.50%
5.06%
1.00%
3.63%
3.38%
1.80%
3.77%
6.38%
1.63%
4.0%
2.3'
FLAT

113

114

S. 60TH STREET

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 27	E

2

113

S. 60TH STREET

CURB RAMP TYPE 3

CURB RAMP TYPE 2

CURB RAMP TYPE 2

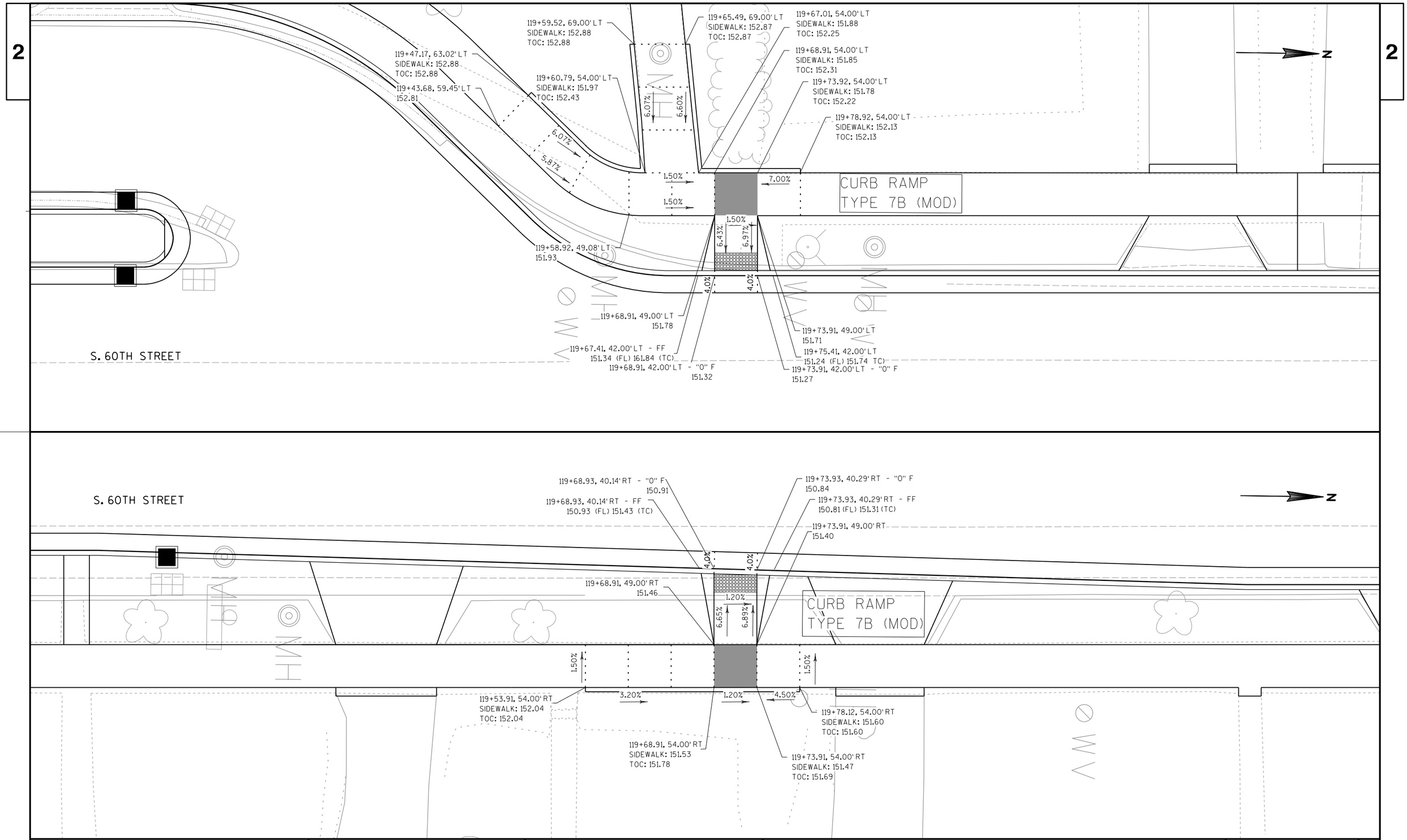
CONCRETE SIDEWALK 5-INCH

BUS STOP

W. OHIO AVENUE

112+82.45, 38.00'RT - "0" F 164.37
112+82.45, 49.00'RT 164.54
112+54.45, 38.50'RT - 3" FACE 165.29
112+74.45, 38.50'RT - 3" FACE 164.58 (FL) 164.94(TC)
112+46.45, 38.50'RT - 3" FACE 165.50
112+66.45, 38.50'RT 3" FACE 165.09
112+87.49, 38.07'RT - "0" F 164.28
112+89.11, 38.25'RT - FF 164.20 (FL) 164.70 (TC)
113+04.24, 47.35'RT - FF 163.80 (FL) 163.30 (TC)
112+87.45, 49.00'RT 164.47
112+93.95, 49.00'RT 164.37
113+05.16, 48.69'RT - "0" F 163.78
113+04.66, 49.00'RT 163.79
113+04.66, 54.00'RT 163.72
113+07.02, 54.00'RT 163.69
113+07.64, 54.00'RT - "0" F 163.68
113+08.08, 55.59'RT - FF 163.45 (FL) 163.95 (TC)
112+46.45, 49.00'RT 165.52
112+66.45, 49.00'RT 165.20
112+66.45, 54.00'RT 165.27
112+74.45, 49.00'RT 165.08
112+74.45, 54.00'RT 165.15
112+46.45, 54.00'RT 165.57
112+54.45, 49.00'RT 165.38
112+54.45, 54.00'RT 165.45
112+82.45, 54.00'RT 164.61
112+87.45, 54.00'RT 164.51
112+90.14, 59.00'RT 164.09
112+91.52, 64.00'RT 163.89
112+93.95, 54.00'RT 164.43
112+95.32, 59.00'RT 164.02
112+96.70, 64.00'RT 163.82
113+54.48, 32.77'RT 162.64
113+54.48, 35.19'RT 162.65
113+49.49, 35.19'RT 162.63
113+49.17, 34.70'RT - "0" F 162.72
113+47.86, 35.61'RT - FF 162.75 (FL) 163.25 (TC)
113+56.07, 31.69'RT - FF 162.57 (FL) 163.07 (TC)
113+54.30, 32.21'RT - "0" F 162.63
113+49.49, 49.00'RT 163.01
113+54.49, 49.00'RT 163.07
113+59.49, 49.00'RT 163.06
113+64.49, 49.00'RT 163.16
113+69.49, 49.00'RT 163.25
113+39.64, 47.41'RT - FF 162.92 (FL) 163.42 (TC)
113+39.18, 49.00'RT - "0" F 162.90
113+39.82, 49.00'RT 162.91
113+39.82, 54.00'RT 162.85
113+39.26, 54.00'RT 162.84
113+38.68, 54.00'RT - "0" F 162.83
113+38.69, 55.59'RT - FF 162.81 (FL) 163.31 (TC)
113+49.49, 54.00'RT 163.07
113+49.05, 59.00'RT 163.27
113+48.74, 64.00'RT 163.56
113+69.49, 54.00'RT 163.32
113+64.49, 54.00'RT 163.23
113+59.49, 54.00'RT 163.13
113+54.49, 54.00'RT 163.14
113+54.05, 59.00'RT 163.34
113+53.62, 64.00'RT 163.63

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 28	E



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\021005_cd.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:10

2

130

N

W. BENNETT AVENUE

S. 60TH STREET

CURB RAMP
TYPE 5

130+13.95, 3.80' RT
134.50

130+18.95, 2.06' RT
134.46

130+13.95, 7.43' RT
134.53

130+18.95, 7.43' RT
134.48

130+13.95, 11.00' RT
134.37

130+18.95, 11.00' RT
134.32

4%
1.00%
0.50%
5.33%
6.00%

CURB RAMP
TYPE 3 (MODIFIED)

129+58.53, 49.00' RT
134.72

129+63.80, 49.00' RT
134.65

129+33.53, 49.00' RT
135.64

129+63.53, 53.98' RT
134.57

129+67.46, 52.59' RT
134.31 (FL) 134.81 (TC)

129+67.63, 54.00' RT
134.30

129+68.30, 54.00' RT - "0" F
134.29

129+33.53, 54.00' RT
SIDEWALK: 135.71
TOC: 135.71

129+58.53, 54.00' RT
SIDEWALK: 134.64
TOC: 135.06

129+58.41, 58.93' RT
SIDEWALK: 134.57
TOC: 135.15

129+57.97, 73.79' RT
SIDEWALK: 135.11
TOC: 135.11

129+67.62, 59.00' RT
134.26

129+69.70, 59.00' RT
134.24

129+70.30, 59.00' RT
- "0" F 134.23

129+70.64, 60.42' RT
134.15 (FL) 134.57 (TC)

129+63.42, 58.98' RT
134.50

129+63.78, 73.99' RT
135.04

1.50%
3.68%
4.28%
7.00%
FLAT
0.60%
6.00%
3.60%

CURB RAMP
TYPE 3 (MODIFIED)

130+18.92, 42.61' RT - "0" F
133.75

130+18.92, 43.21' RT
133.76

130+20.57, 42.29' RT - FF
133.73 (FL) 134.23 (TC)

130+13.92, 44.42' RT
- "0" F 133.79

130+13.93, 45.07' RT
133.80

130+12.17, 45.39' RT
133.80 (FL) 134.30 (TC)

130+13.95, 49.00' RT
134.00

130+08.95, 54.00' RT
134.00

130+04.73, 52.75' RT
133.91 (FL) 134.41 (TC)

130+04.67, 54.00' RT
133.91

130+04.00, 54.00' RT - "0" F
133.90

130+02.60, 59.00' RT - "0" F
133.96

130+03.10, 59.00' RT
133.97

130+01.68, 60.32' RT
133.98 (FL) 134.48 (TC)

130+04.66, 59.00' RT
133.98

130+08.97, 59.00' RT
134.07

130+08.03, 74.00' RT
134.76

130+18.93, 45.04' RT
133.79

130+18.94, 49.00' RT
134.07

130+28.95, 49.00' RT
134.35

130+28.95, 54.00' RT
SIDEWALK: 134.42
TOC: 134.42

130+18.95, 54.00' RT
SIDEWALK: 134.14
TOC: 134.48

130+13.95, 54.00' RT
SIDEWALK: 134.07
TOC: 134.51

130+13.95, 59.00' RT
SIDEWALK: 134.14
TOC: 134.51

130+14.03, 74.00' RT
SIDEWALK: 134.84
TOC: 134.84

0.80%
4.00%
5.00%
7.00%
2.10%
2.09%
2.80%
4.60%
4.67%
1.50%

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 30	E

2

N

MH

MH

130+13.94, 54.00'LT
SIDEWALK: 134.54
TOC: 134.98

130+18.94, 54.00'LT
SIDEWALK: 134.47
TOC: 134.94

130+04.81, 54.00'LT
SIDEWALK: 135.03
TOC: 135.03

130+28.94, 54.00'LT
SIDEWALK: 134.79
TOC: 134.79

1.50%
4.90%
1.50%
1.50%
3.20%
1.50%

1.60%
6.14%
6.29%

130+04.81, 49.00'LT
134.96

130+13.94, 49.00'LT
134.47

130+18.94, 49.00'LT
134.40

130+28.94, 49.00'LT
134.72

4%
1.80%
4%

130+12.21, 42.00'LT - FF
134.06 (FL) 134.56 (TC)

130+20.66, 42.00'LT - FF
133.93 (FL) 134.43 (TC)

130+13.94, 42.00'LT - "0" F
134.04

130+18.94, 42.00'LT - "0" F
133.96

CURB RAMP
TYPE 7B (MOD)

WEST OF BENNETT AVE

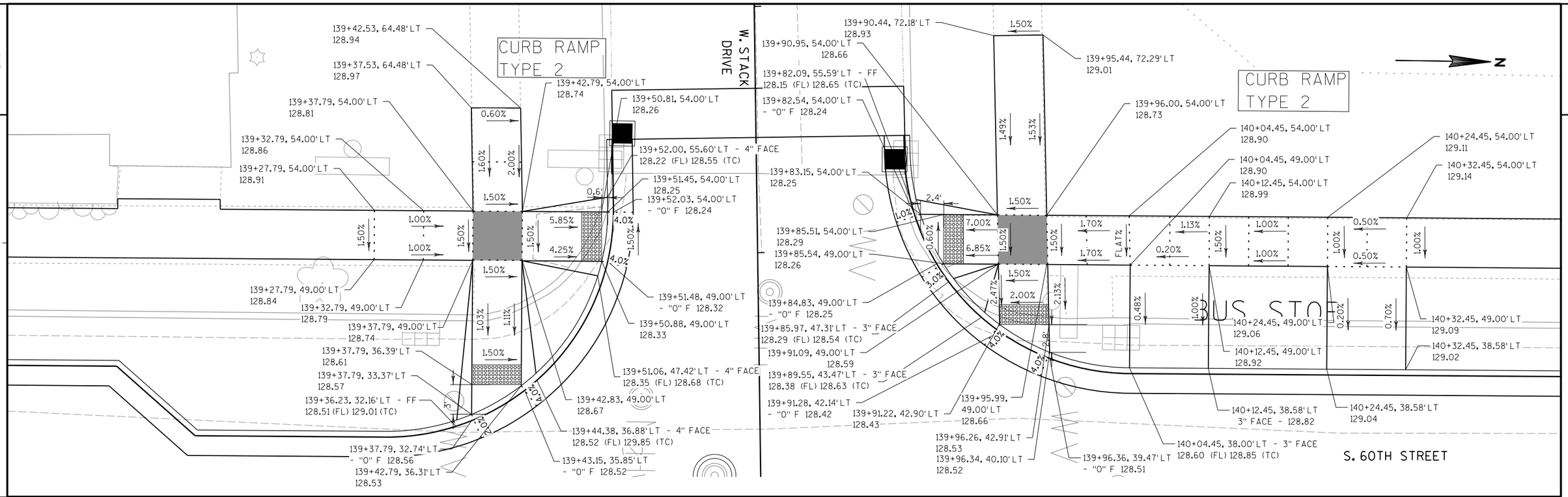
MH

MH

MH

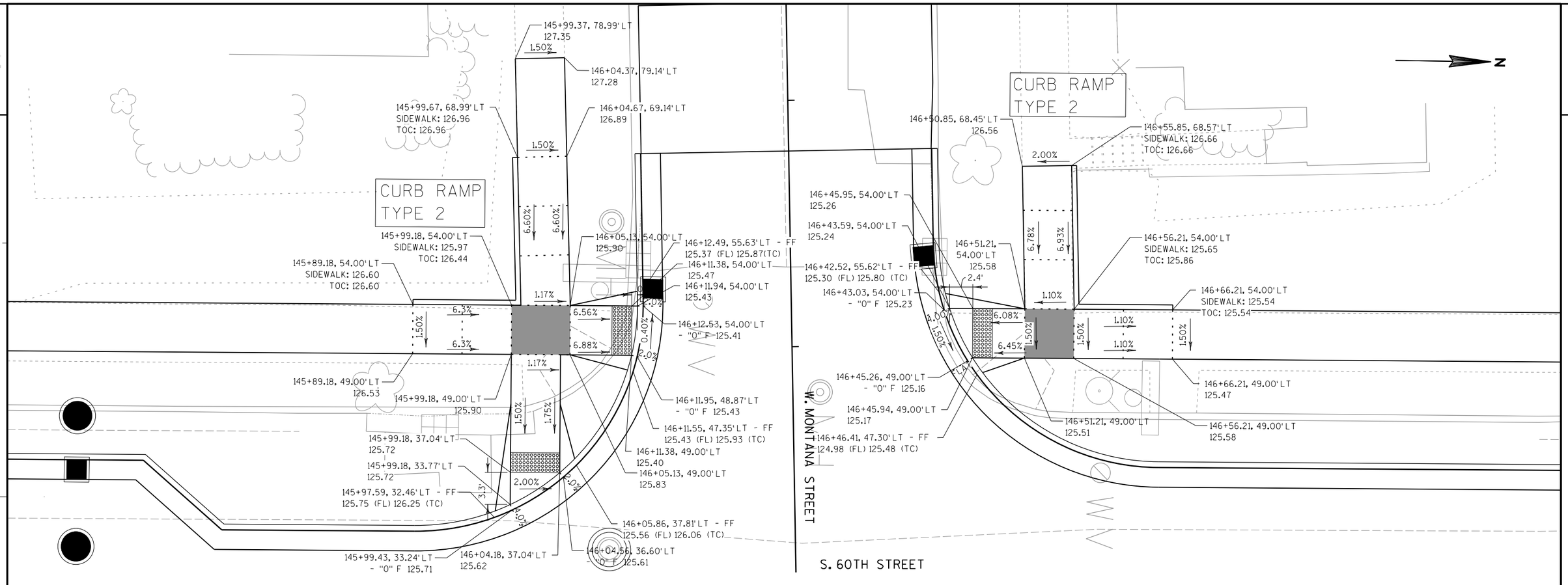
S. 60TH STREET

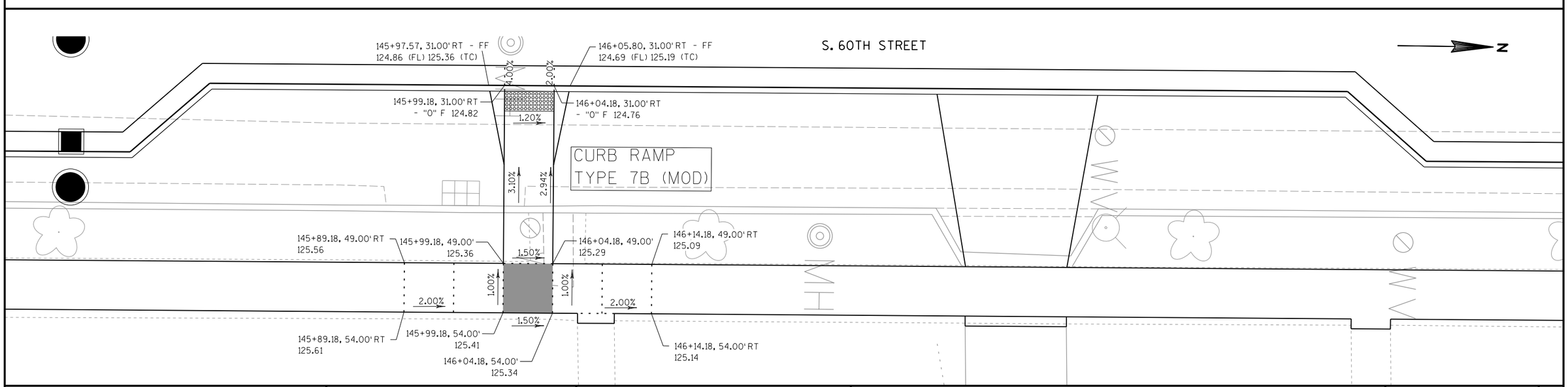
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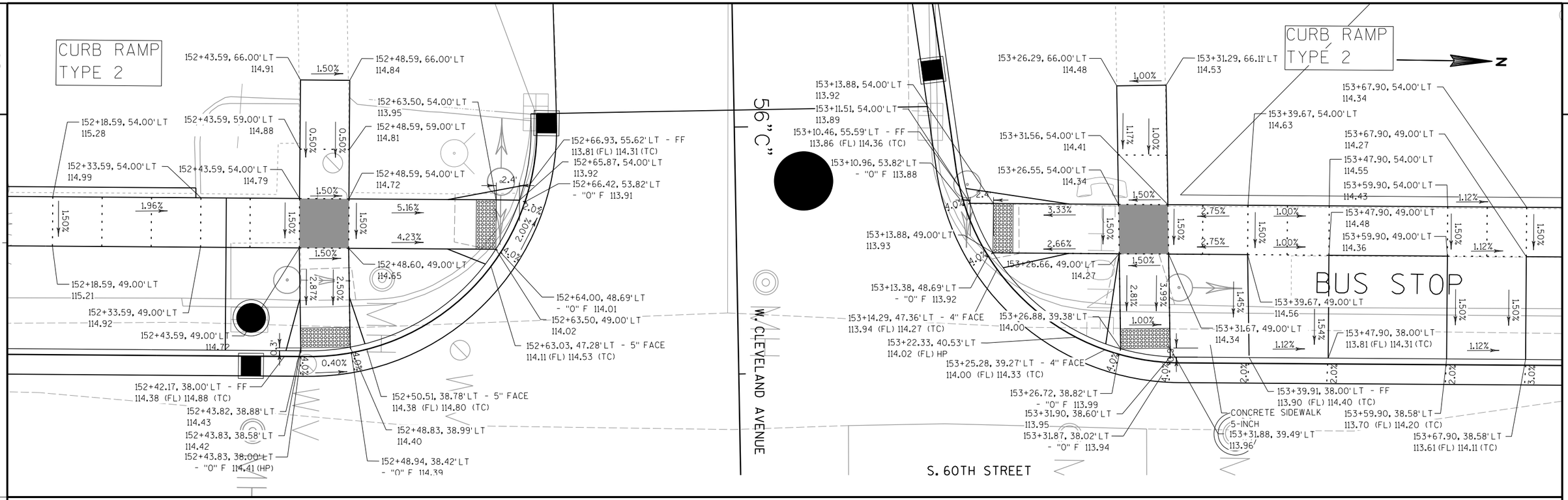
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 32	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\021009_cd.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:10

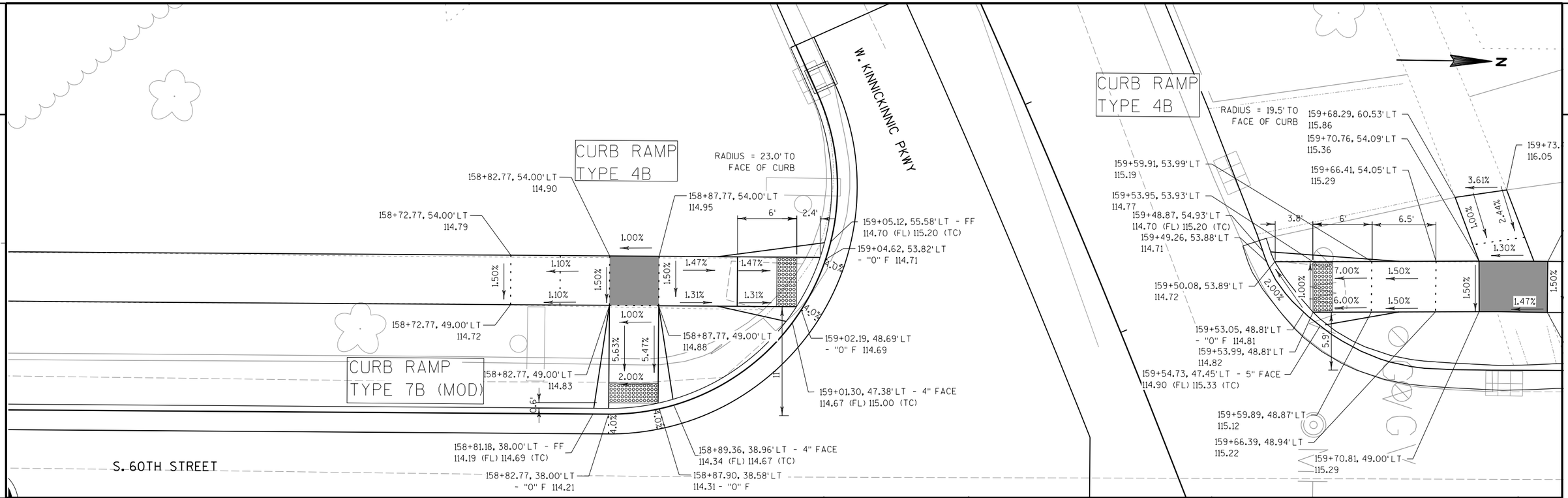




PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 33	E



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 34	E



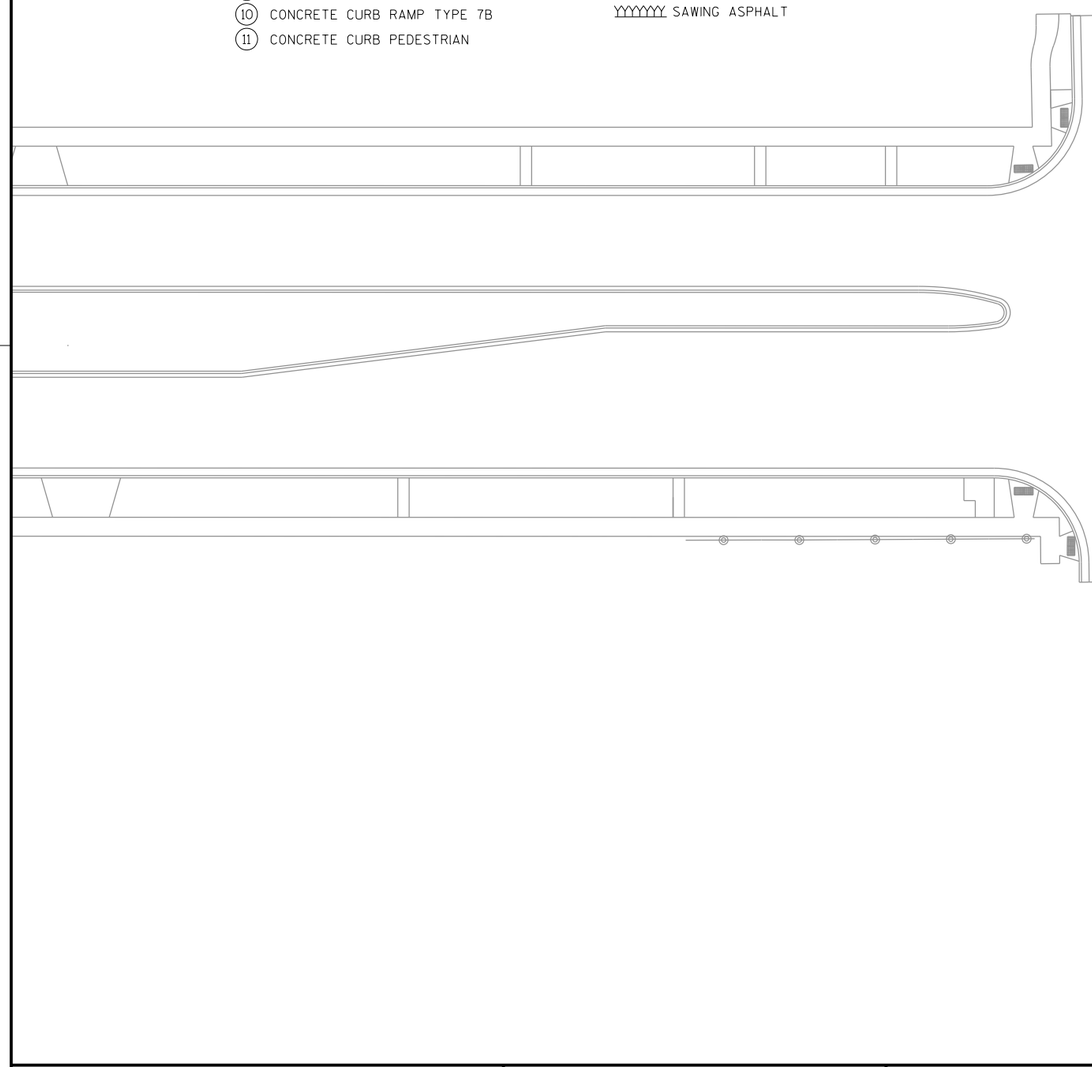
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 35	E

DESIGN NOTES

SEE CURB RAMP CONSTRUCTION DETAILS
FOR CURB RAMP GRADES AND LAYOUT

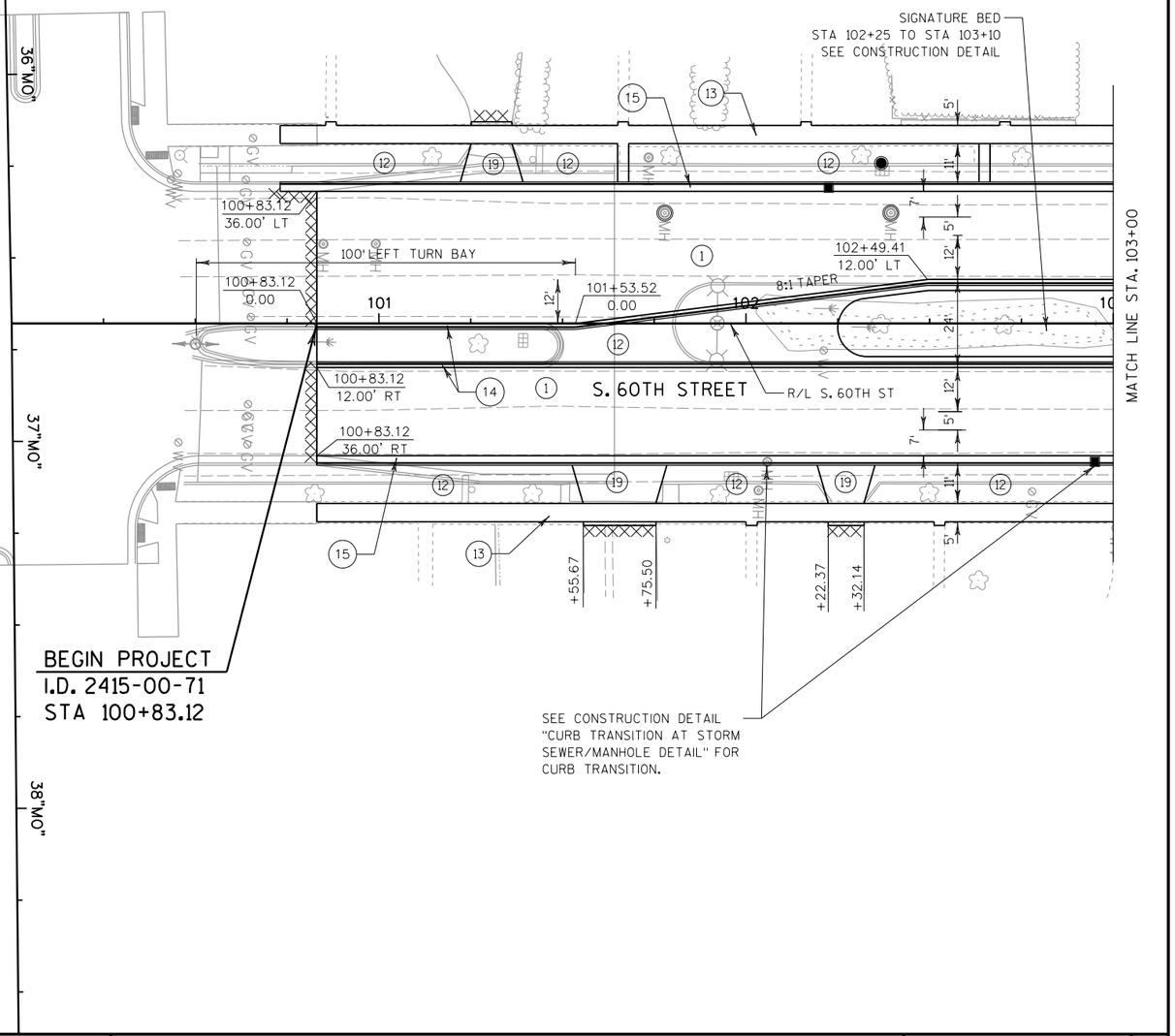
LEGEND

(1) CONCRETE PAVEMENT 8-INCH (NON-DOWELED)
(2) BUS STOP
(3) HMA PAVEMENT 4 LT 58-28 S, 1 3/4-INCH
(4) ASPHALTIC SURFACE BUTT JOINT
(5) REMOVING ASPHALTIC SURFACE MILLING, 1 3/4-INCH
(6) CONCRETE CURB RAMP TYPE 2
(7) CONCRETE CURB RAMP TYPE 3
(8) CONCRETE CURB RAMP TYPE 4B
(9) CONCRETE CURB RAMP TYPE 5
(10) CONCRETE CURB RAMP TYPE 7B
(11) CONCRETE CURB PEDESTRIAN
(12) TOPSOIL, SOD LAWN AND FERTILIZER
(13) CONCRETE SIDEWALK 5-INCH
(14) CONCRETE CURB & GUTTER 19-INCH
(15) CONCRETE CURB & GUTTER 31-INCH
(17) CONCRETE MEDIAN SLOPED NOSE TYPE 2
(18) MAINTENANCE RAMP (SEE CONSTRUCTION DETAIL)
(19) CONCRETE DRIVEWAY 7-INCH
(20) CONCRETE SIDEWALK 7-INCH
XXXX SAWING CONCRETE
YYYYYY SAWING ASPHALT



35"MO"
36"MO"
37"MO"
38"MO"

W. MORGAN AVENUE



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 36	E

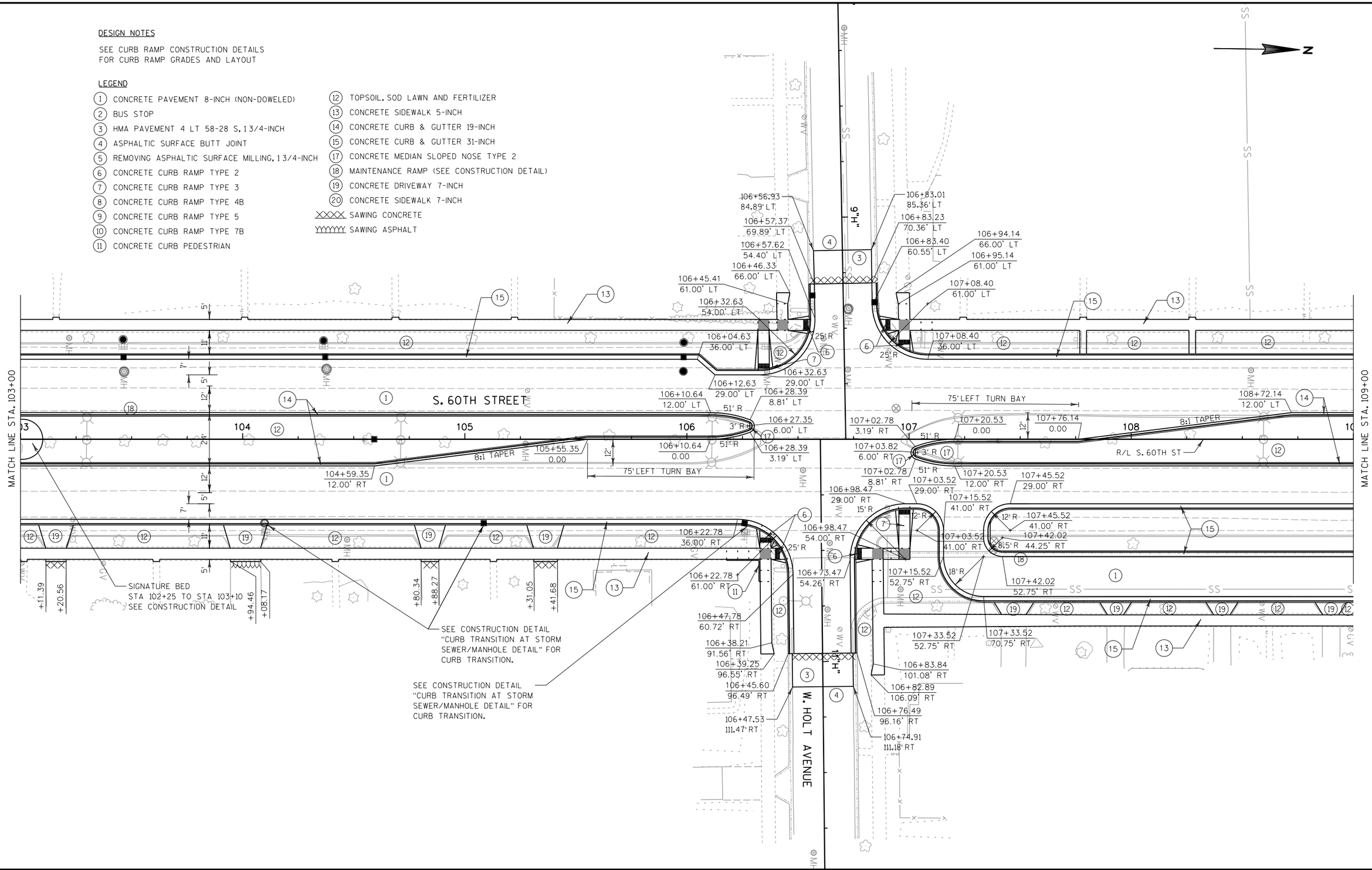
2

DESIGN NOTES

SEE CURB RAMP CONSTRUCTION DETAILS
FOR CURB RAMP GRADES AND LAYOUT

LEGEND

(1) CONCRETE PAVEMENT 8-INCH (NON-DOWELED)
(2) BUS STOP
(3) HMA PAVEMENT 4 LT 58-28 S, 1 3/4-INCH
(4) ASPHALTIC SURFACE BUTT JOINT
(5) REMOVING ASPHALTIC SURFACE MILLING, 1 3/4-INCH
(6) CONCRETE CURB RAMP TYPE 2
(7) CONCRETE CURB RAMP TYPE 3
(8) CONCRETE CURB RAMP TYPE 4B
(9) CONCRETE CURB RAMP TYPE 5
(10) CONCRETE CURB RAMP TYPE 7B
(11) CONCRETE CURB PEDESTRIAN
(12) TOPSOIL, SOD LAWN AND FERTILIZER
(13) CONCRETE SIDEWALK 5-INCH
(14) CONCRETE CURB & GUTTER 19-INCH
(15) CONCRETE CURB & GUTTER 31-INCH
(17) CONCRETE MEDIAN SLOPED NOSE TYPE 2
(18) MAINTENANCE RAMP (SEE CONSTRUCTION DETAIL)
(19) CONCRETE DRIVEWAY 7-INCH
(20) CONCRETE SIDEWALK 7-INCH
SAWING CONCRETE
SAWING ASPHALT



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 37	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\021202_pd.dgn PLOT DATE : 10/8/2018 PLOT BY : sxp PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

DESIGN NOTES

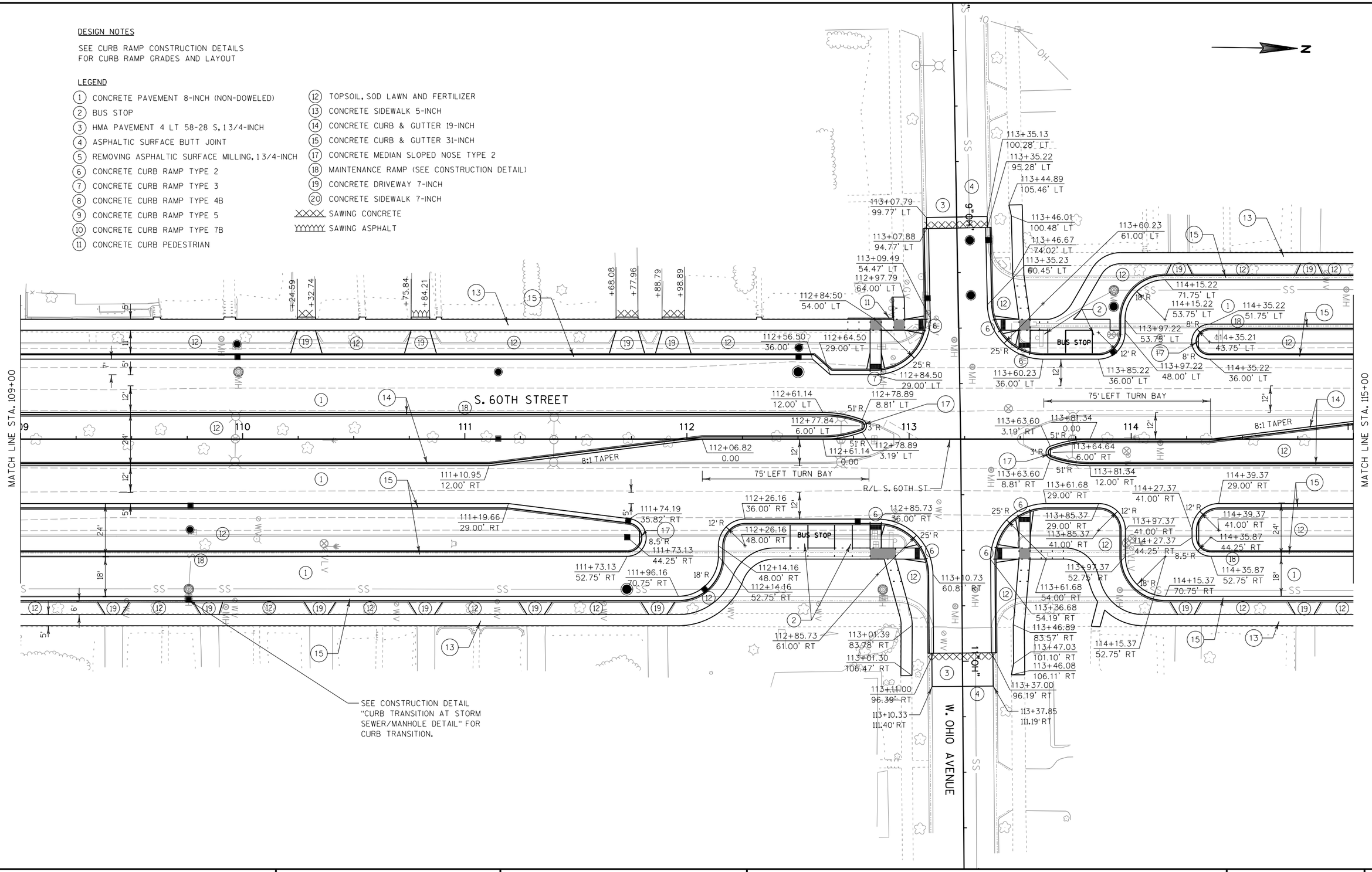
SEE CURB RAMP CONSTRUCTION DETAILS
FOR CURB RAMP GRADES AND LAYOUT

LEGEND

1. CONCRETE PAVEMENT 8-INCH (NON-DOWELED)
2. BUS STOP
3. HMA PAVEMENT 4 LT 58-28 S, 13/4-INCH
4. ASPHALTIC SURFACE BUTT JOINT
5. REMOVING ASPHALTIC SURFACE MILLING, 13/4-INCH
6. CONCRETE CURB RAMP TYPE 2
7. CONCRETE CURB RAMP TYPE 3
8. CONCRETE CURB RAMP TYPE 4B
9. CONCRETE CURB RAMP TYPE 5
10. CONCRETE CURB RAMP TYPE 7B
11. CONCRETE CURB PEDESTRIAN
12. TOPSOIL, SOD LAWN AND FERTILIZER
13. CONCRETE SIDEWALK 5-INCH
14. CONCRETE CURB & GUTTER 19-INCH
15. CONCRETE CURB & GUTTER 31-INCH
17. CONCRETE MEDIAN SLOPED NOSE TYPE 2
18. MAINTENANCE RAMP (SEE CONSTRUCTION DETAIL)
19. CONCRETE DRIVEWAY 7-INCH
20. CONCRETE SIDEWALK 7-INCH

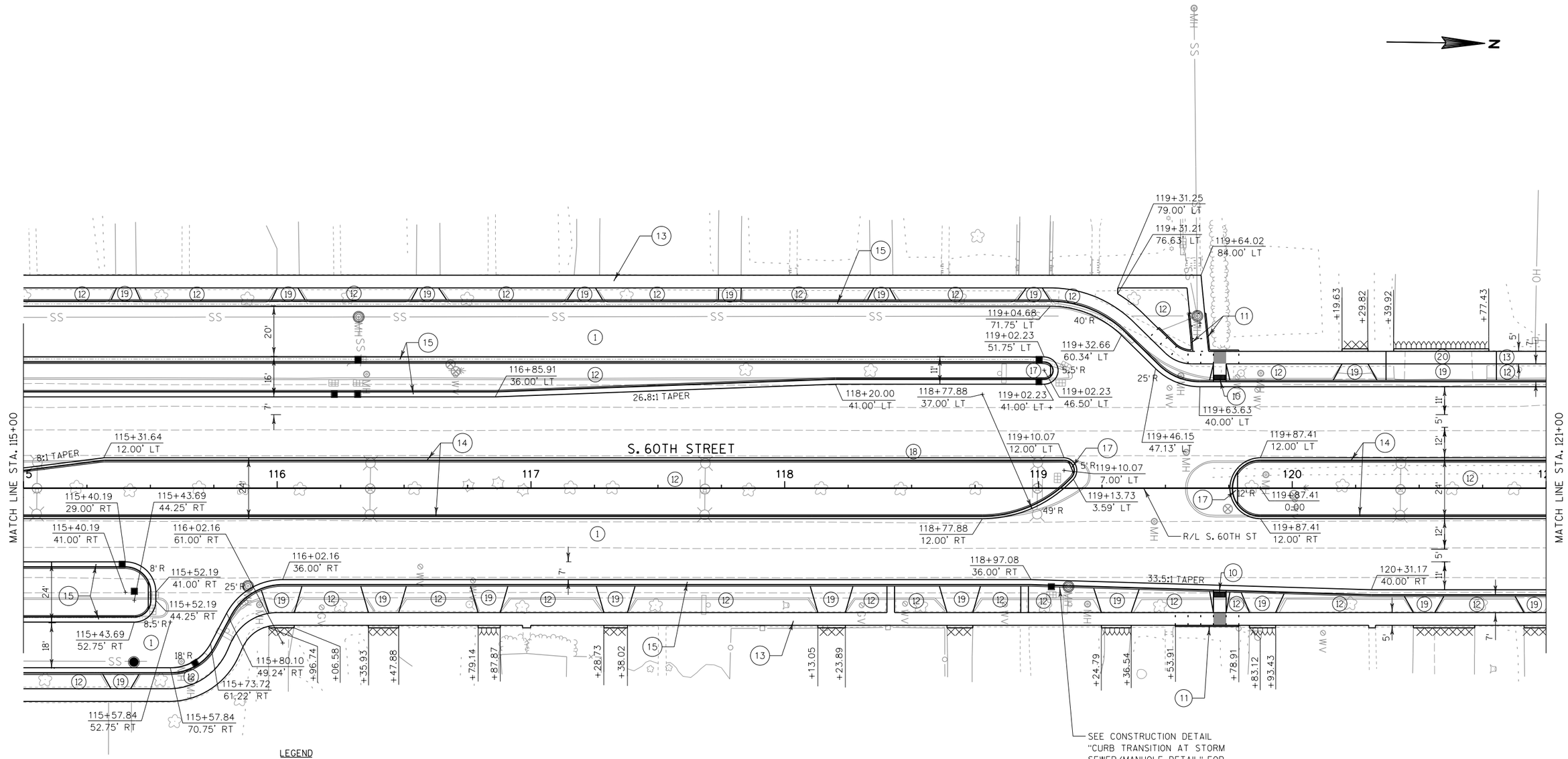
XXXX SAWING CONCRETE

YYYYYY SAWING ASPHALT



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 38	E

2



LEGEND

1. CONCRETE PAVEMENT 8-INCH (NON-DOWELED)
2. BUS STOP
3. HMA PAVEMENT 4 LT 58-28 S, 13/4-INCH
4. ASPHALTIC SURFACE BUTT JOINT
5. REMOVING ASPHALTIC SURFACE MILLING, 13/4-INCH
6. CONCRETE CURB RAMP TYPE 2
7. CONCRETE CURB RAMP TYPE 3
8. CONCRETE CURB RAMP TYPE 4B
9. CONCRETE CURB RAMP TYPE 5
10. CONCRETE CURB RAMP TYPE 7B
11. CONCRETE CURB PEDESTRIAN
12. TOPSOIL, SOD LAWN AND FERTILIZER
13. CONCRETE SIDEWALK 5-INCH
14. CONCRETE CURB & GUTTER 19-INCH
15. CONCRETE CURB & GUTTER 31-INCH
17. CONCRETE MEDIAN SLOPED NOSE TYPE 2
18. MAINTENANCE RAMP (SEE CONSTRUCTION DETAIL)
19. CONCRETE DRIVEWAY 7-INCH
20. CONCRETE SIDEWALK 7-INCH

XXXX SAWING CONCRETE

YYYYYY SAWING ASPHALT

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 39	E

DESIGN NOTES

SEE CURB RAMP CONSTRUCTION DETAILS
FOR CURB RAMP GRADES AND LAYOUT

LEGEND

(1) CONCRETE PAVEMENT 8-INCH (NON-DOWELED)
(2) BUS STOP
(3) HMA PAVEMENT 4 LT 58-28 S, 1 3/4-INCH
(4) ASPHALTIC SURFACE BUTT JOINT
(5) REMOVING ASPHALTIC SURFACE MILLING, 1 3/4-INCH
(6) CONCRETE CURB RAMP TYPE 2
(7) CONCRETE CURB RAMP TYPE 3
(8) CONCRETE CURB RAMP TYPE 4B
(9) CONCRETE CURB RAMP TYPE 5
(10) CONCRETE CURB RAMP TYPE 7B
(11) CONCRETE CURB PEDESTRIAN
(12) TOPSOIL, SOD LAWN AND FERTILIZER
(13) CONCRETE SIDEWALK 5-INCH
(14) CONCRETE CURB & GUTTER 19-INCH
(15) CONCRETE CURB & GUTTER 31-INCH
(17) CONCRETE MEDIAN SLOPED NOSE TYPE 2
(18) MAINTENANCE RAMP (SEE CONSTRUCTION DETAIL)
(19) CONCRETE DRIVEWAY 7-INCH
(20) CONCRETE SIDEWALK 7-INCH
XXXXX SAWING CONCRETE
YYYYYY SAWING ASPHALT

MATCH LINE STA. 121+00

121+73.51
12.00' LT

122+09.35
3.59' RT

122+62.12
3.59' RT

122+05.69
7.00' RT

122+05.69
12.00' RT

122+97.97
12.00' LT

122+65.78
7.00' RT

122+65.78
12.00' RT

R/L S. 60TH ST

8:1 TAPER

123+85.05
12.01' RT

S. 60TH STREET

124+81.17
0.00

100' LEFT TURN BAY

125+79.12
0.00

125+78.38
40.00' LT

125+78.89
12.00' LT

125+82.01
12.00' LT

END CONSTRUCTION
I.D. 2415-00-71
STA 125+82.01

125+79.54
40.00' RT

121+73.51
37.00' RT

SEE CONSTRUCTION DETAIL
"CURB TRANSITION AT STORM
SEWER/MANHOLE DETAIL" FOR
CURB TRANSITION.

SEE CONSTRUCTION DETAIL
"CURB TRANSITION AT STORM
SEWER/MANHOLE DETAIL" FOR
CURB TRANSITION.

TRANSITION CURB & GUTTER
PAN FROM 2' TO 2.57'.
PAID AS "CONCRETE CURB &
GUTTER 31-INCH".

TRANSITION GUTTER PAN
FROM 2' TO 3.11'.
PAID AS "CONCRETE CURB &
GUTTER 31-INCH".

+37.08 +60.34 +64.75 +79.11 +12.89 +24.51 +61.81 +72.11 +16.08 +47.19 +58.81 +98.47

FILLER CAP FILLER CAP FILLER CAP FILLER CAP

W. LAKEFIELD DRIVE

11"LA"

W. OKLAHOMA AVENUE

BUS STOP

45'0" 46'0" 47'0" 48'0"

30' R 25' R 50' R 2' R

MATCH LINE STA. 127+00

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 40	E

2

N

MATCH LINE STA. 127+00

MATCH LINE STA. 133+00

TRANSITION GUTTER PAN
FROM 2' TO 3.13'.
PAID AS "CONCRETE CURB &
GUTTER 31-INCH".

BUS STOP

127+13.59
40.00' LT

+08.61
4.10' RT

127+06.24
0.00'

127+14.32
0.00'

+27.65
1.00' RT

+27.65
11.00' RT

+08.61
7.90' RT

127+15.06
40.00' RT

+23.08

+51.16

+69.18

130+04.81
54.50' LT

130+28.94
54.50' LT

SIGNATURE BED
STA 102+25 TO STA 103+10
SEE CONSTRUCTION DETAIL

+85.47

+17.85

33.5:1 TAPER

200'LEFT TURN BAY

129+11.14
0.01' LT

129+93.67
12.00' LT

129+95.27
6.46' LT

130+07.13
6.58' RT

129+83.14
12.01' LT

129+93.67
9.00' LT

130+08.91
9.00' RT

S. 60TH STREET (1)

131+41.10
12.01' LT

131+72.42
12.00' LT

131+72.42
49.00' LT

131+89.83
8.80' LT

131+88.77
6.00' LT

132+33.79
12.00' LT

42'LEFT TURN BAY

130+69.10
0.01' LT

6:1 TAPER

128

129

130

131

132

14'R

49.35'R

34'R

49'R

3'R

129+70.32
2.00' LT

R/L S. 60TH ST

130+27.24
0.00

131+17.60
0.01' RT

131+72.42
0.00

132+33.79
0.00

132+33.79
12.00' RT

131+89.83
3.20' LT

75'LEFT TURN BAY

129+70.32
12.00' RT

130+08.91
12.00' RT

130+45.77
12.00' RT

129+81.63
6.25' RT

129+48.10
40.00' RT

130+27.24
34.00' RT

130+24.20
40.00' RT

131+72.42
37.00' RT

130+21.49
35.35' RT

25'R

129+33.53
54.50' RT

129+48.10
65.00' RT

130+28.95
54.50' RT

130+24.20
65.00' RT

+90.70

+21.88

+01.65

+12.76

+41.28

+52.21

+90.05

129+57.47
73.84' RT

129+73.10
64.96' RT

129+72.97
82.46'RT

130+14.53
74.00' RT

129+99.20
64.91' RT

129+99.18
82.48'RT

W. BENNETT AVENUE

11"B"

12"B"

TRANSITION GUTTER PAN
FROM 2' TO 3.25'.
PAID AS "CONCRETE CURB &
GUTTER 31-INCH".

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

DESIGN NOTES

SEE CURB RAMP CONSTRUCTION DETAILS
FOR CURB RAMP GRADES AND LAYOUT

LEGEND

(1) CONCRETE PAVEMENT 8-INCH (NON-DOWELED)
(2) BUS STOP
(3) HMA PAVEMENT 4 LT 58-28 S, 13/4-INCH
(4) ASPHALTIC SURFACE BUTT JOINT
(5) REMOVING ASPHALTIC SURFACE MILLING, 13/4-INCH
(6) CONCRETE CURB RAMP TYPE 2
(7) CONCRETE CURB RAMP TYPE 3
(8) CONCRETE CURB RAMP TYPE 4B
(9) CONCRETE CURB RAMP TYPE 5
(10) CONCRETE CURB RAMP TYPE 7B
(11) CONCRETE CURB PEDESTRIAN
(12) TOPSOIL, SOD LAWN AND FERTILIZER
(13) CONCRETE SIDEWALK 5-INCH
(14) CONCRETE CURB & GUTTER 19-INCH
(15) CONCRETE CURB & GUTTER 31-INCH
(17) CONCRETE MEDIAN SLOPED NOSE TYPE 2
(18) MAINTENANCE RAMP (SEE CONSTRUCTION DETAIL)
(19) CONCRETE DRIVEWAY 7-INCH
(20) CONCRETE SIDEWALK 7-INCH
SAWING CONCRETE
SAWING ASPHALT

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 41	E

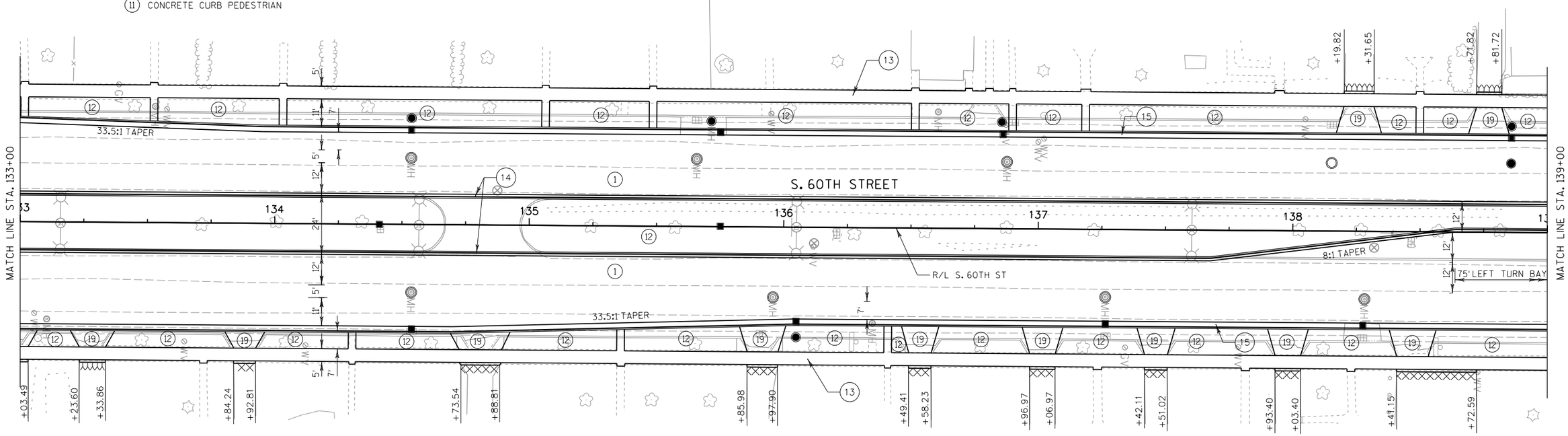
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DESIGN NOTES

SEE CURB RAMP CONSTRUCTION DETAILS
FOR CURB RAMP GRADES AND LAYOUT

LEGEND

(1) CONCRETE PAVEMENT 8-INCH (NON-DOWELED)
(2) BUS STOP
(3) HMA PAVEMENT 4 LT 58-28 S, 1 3/4-INCH
(4) ASPHALTIC SURFACE BUTT JOINT
(5) REMOVING ASPHALTIC SURFACE MILLING, 1 3/4-INCH
(6) CONCRETE CURB RAMP TYPE 2
(7) CONCRETE CURB RAMP TYPE 3
(8) CONCRETE CURB RAMP TYPE 4B
(9) CONCRETE CURB RAMP TYPE 5
(10) CONCRETE CURB RAMP TYPE 7B
(11) CONCRETE CURB PEDESTRIAN
(12) TOPSOIL, SOD LAWN AND FERTILIZER
(13) CONCRETE SIDEWALK 5-INCH
(14) CONCRETE CURB & GUTTER 19-INCH
(15) CONCRETE CURB & GUTTER 31-INCH
(17) CONCRETE MEDIAN SLOPED NOSE TYPE 2
(18) MAINTENANCE RAMP (SEE CONSTRUCTION DETAIL)
(19) CONCRETE DRIVEWAY 7-INCH
(20) CONCRETE SIDEWALK 7-INCH
SAWING CONCRETE
SAWING ASPHALT



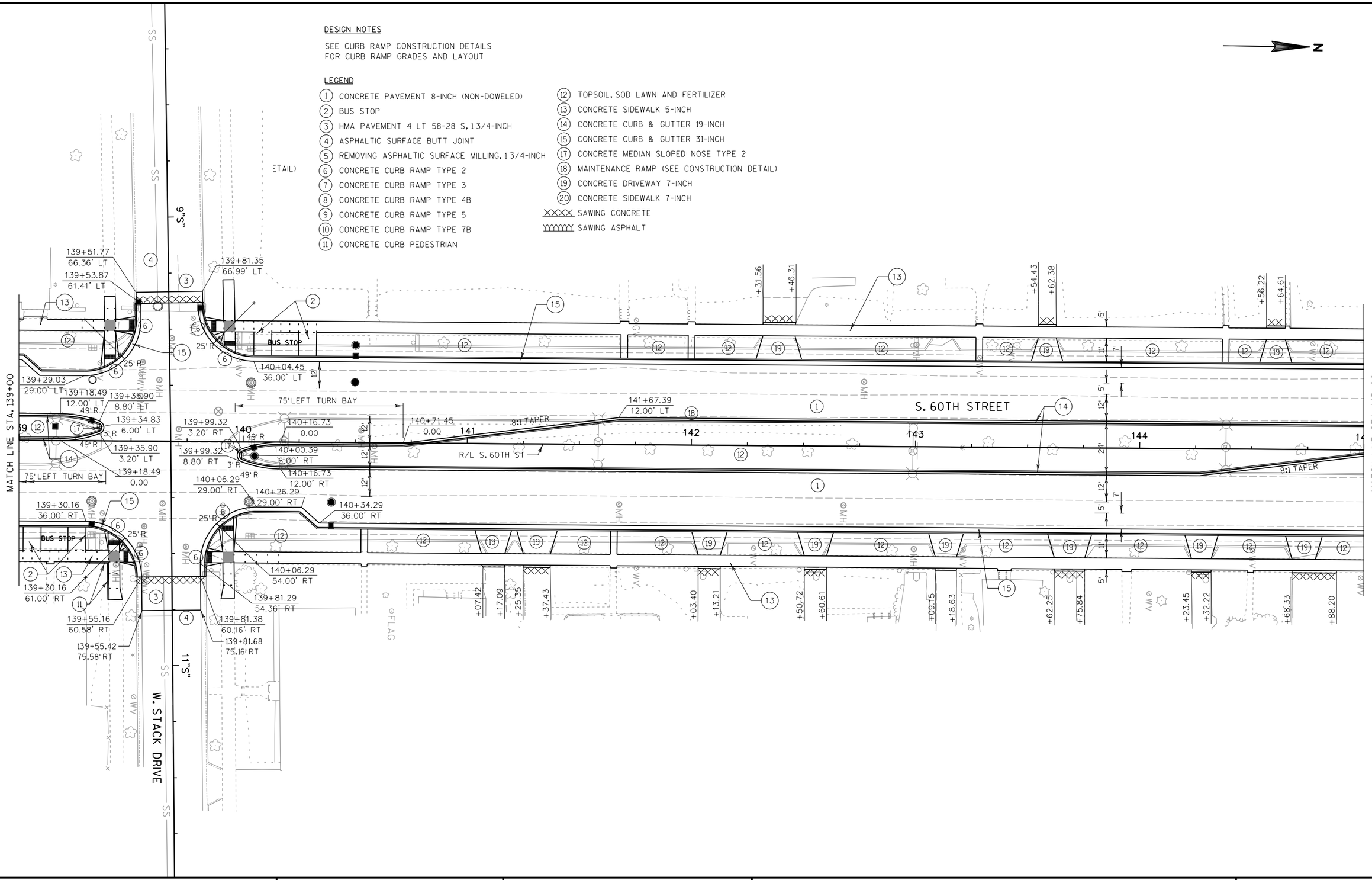
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 42	E

DESIGN NOTES

SEE CURB RAMP CONSTRUCTION DETAILS
FOR CURB RAMP GRADES AND LAYOUT

LEGEND

1. CONCRETE PAVEMENT 8-INCH (NON-DOWELED)
2. BUS STOP
3. HMA PAVEMENT 4 LT 58-28 S. 1 3/4-INCH
4. ASPHALTIC SURFACE BUTT JOINT
5. REMOVING ASPHALTIC SURFACE MILLING, 1 3/4-INCH
6. CONCRETE CURB RAMP TYPE 2
7. CONCRETE CURB RAMP TYPE 3
8. CONCRETE CURB RAMP TYPE 4B
9. CONCRETE CURB RAMP TYPE 5
10. CONCRETE CURB RAMP TYPE 7B
11. CONCRETE CURB PEDESTRIAN
12. TOPSOIL, SOD LAWN AND FERTILIZER
13. CONCRETE SIDEWALK 5-INCH
14. CONCRETE CURB & GUTTER 19-INCH
15. CONCRETE CURB & GUTTER 31-INCH
17. CONCRETE MEDIAN SLOPED NOSE TYPE 2
18. MAINTENANCE RAMP (SEE CONSTRUCTION DETAIL)
19. CONCRETE DRIVEWAY 7-INCH
20. CONCRETE SIDEWALK 7-INCH
- SAWING CONCRETE
- SAWING ASPHALT



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 43	E

DESIGN NOTES

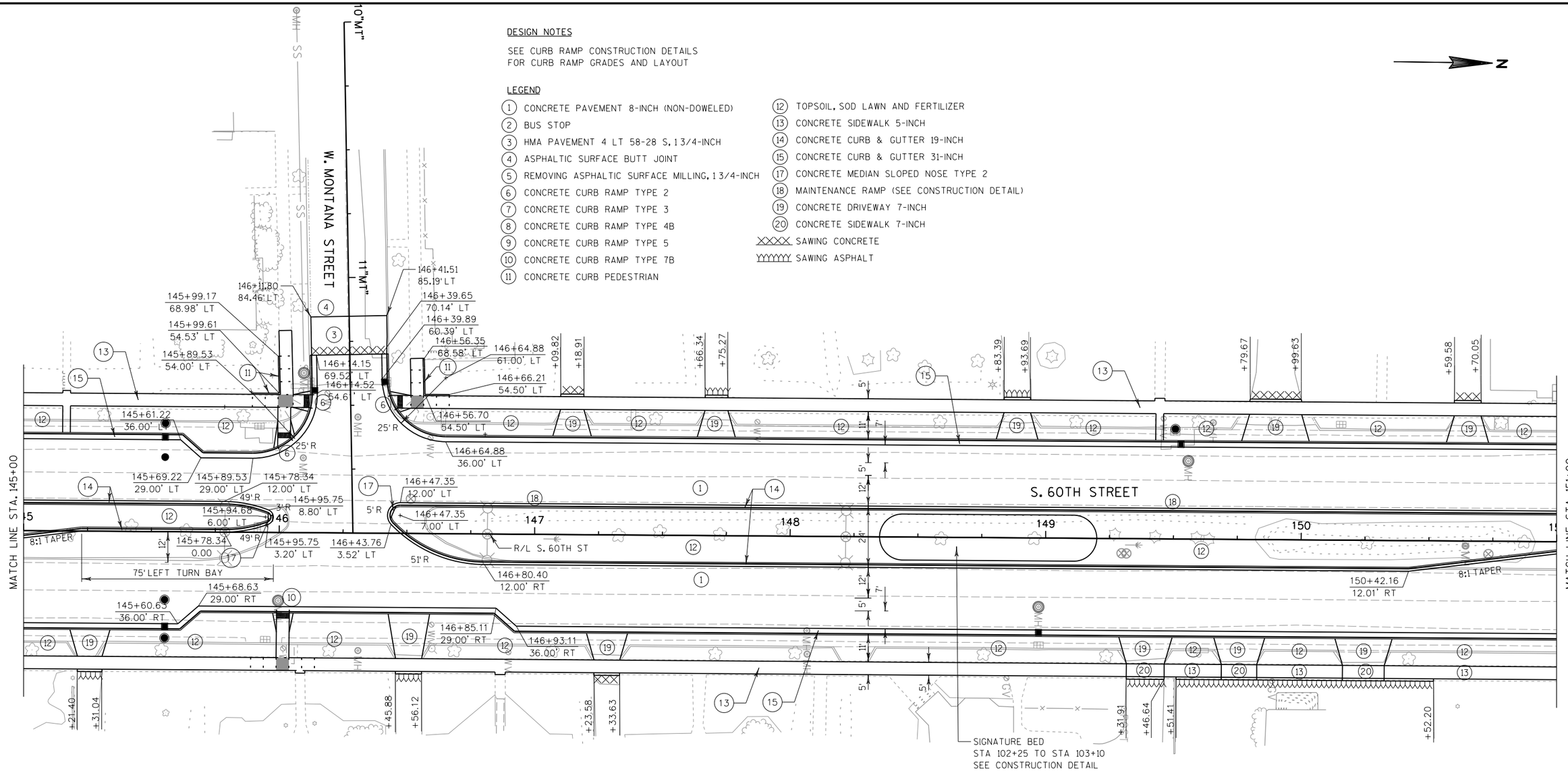
SEE CURB RAMP CONSTRUCTION DETAILS
FOR CURB RAMP GRADES AND LAYOUT

LEGEND

1. CONCRETE PAVEMENT 8-INCH (NON-DOWELED)
2. BUS STOP
3. HMA PAVEMENT 4 LT 58-28 S, 1 3/4-INCH
4. ASPHALTIC SURFACE BUTT JOINT
5. REMOVING ASPHALTIC SURFACE MILLING, 1 3/4-INCH
6. CONCRETE CURB RAMP TYPE 2
7. CONCRETE CURB RAMP TYPE 3
8. CONCRETE CURB RAMP TYPE 4B
9. CONCRETE CURB RAMP TYPE 5
10. CONCRETE CURB RAMP TYPE 7B
11. CONCRETE CURB PEDESTRIAN
12. TOPSOIL, SOD LAWN AND FERTILIZER
13. CONCRETE SIDEWALK 5-INCH
14. CONCRETE CURB & GUTTER 19-INCH
15. CONCRETE CURB & GUTTER 31-INCH
17. CONCRETE MEDIAN SLOPED NOSE TYPE 2
18. MAINTENANCE RAMP (SEE CONSTRUCTION DETAIL)
19. CONCRETE DRIVEWAY 7-INCH
20. CONCRETE SIDEWALK 7-INCH

XXXXX SAWING CONCRETE

YYYYYY SAWING ASPHALT



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 44	E

DESIGN NOTES

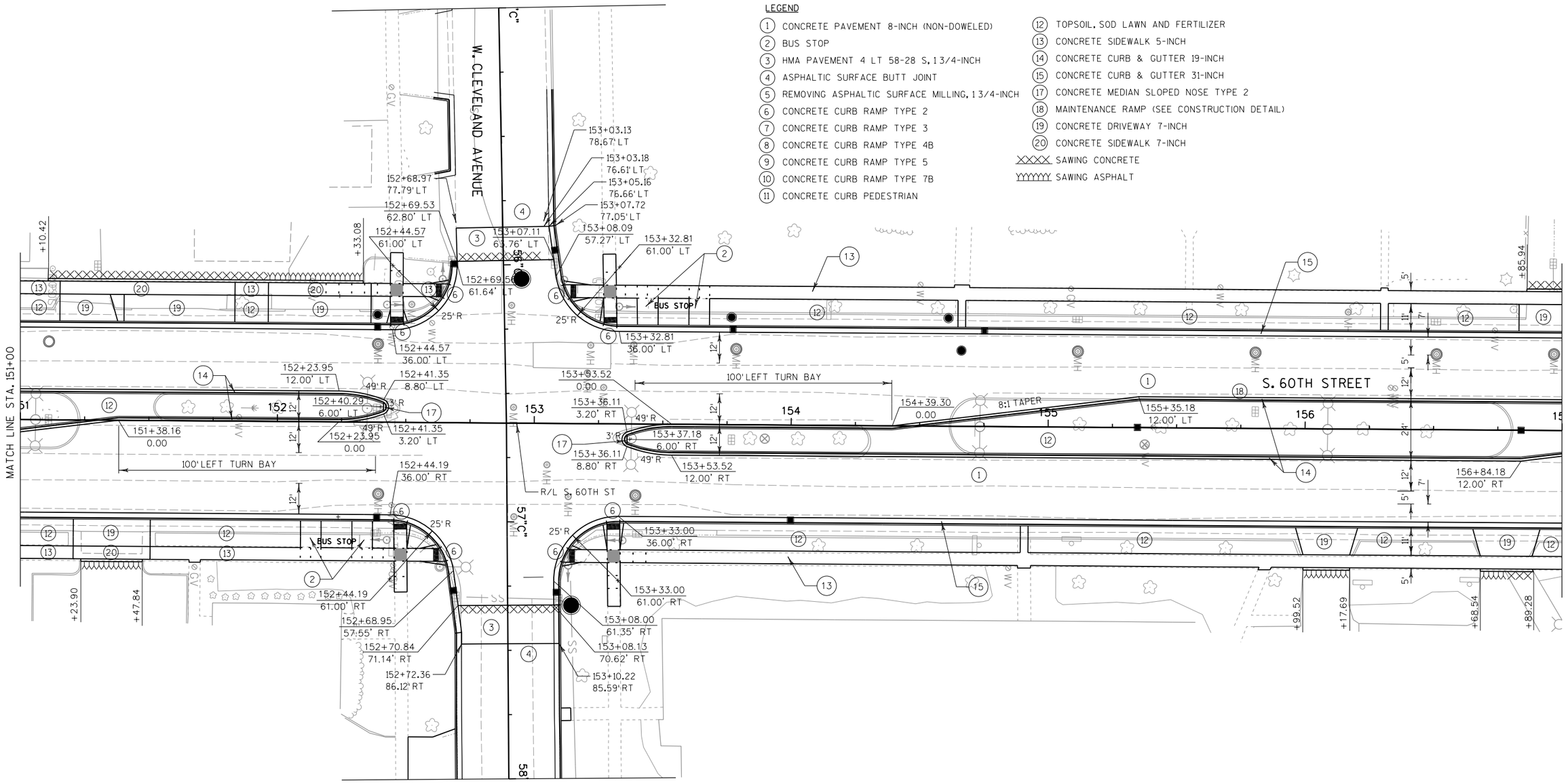
SEE CURB RAMP CONSTRUCTION DETAILS
FOR CURB RAMP GRADES AND LAYOUT

LEGEND

1. CONCRETE PAVEMENT 8-INCH (NON-DOWELED)
2. BUS STOP
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4. ASPHALTIC SURFACE BUTT JOINT
5. REMOVING ASPHALTIC SURFACE MILLING, 1 3/4-INCH
6. CONCRETE CURB RAMP TYPE 2
7. CONCRETE CURB RAMP TYPE 3
8. CONCRETE CURB RAMP TYPE 4B
9. CONCRETE CURB RAMP TYPE 5
10. CONCRETE CURB RAMP TYPE 7B
11. CONCRETE CURB PEDESTRIAN
12. TOPSOIL, SOD LAWN AND FERTILIZER
13. CONCRETE SIDEWALK 5-INCH
14. CONCRETE CURB & GUTTER 19-INCH
15. CONCRETE CURB & GUTTER 31-INCH
17. CONCRETE MEDIAN SLOPED NOSE TYPE 2
18. MAINTENANCE RAMP (SEE CONSTRUCTION DETAIL)
19. CONCRETE DRIVEWAY 7-INCH
20. CONCRETE SIDEWALK 7-INCH

XXXX SAWING CONCRETE

YYYYYY SAWING ASPHALT



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 45	E

2

N

W. KINNICKINNIC PKWY

8"K"

9"K"

11"K"

CITY OF MILWAUKEE

CITY OF WEST ALLIS

MATCH LINE STA. 157+00

157+05.95

S. 60TH STREET

R/L S. 60TH ST

159+27.79
103.98' LT

158+94.92
88.90' LT

159+03.28
76.28' LT

158+82.77
61.00' LT

158+82.77
36.00' LT

25' R

159+12.32
80.38' LT

END CONSTRUCTION
I.D. 2415-00-71
STA 160+01.78

158+60.84
12.00' LT

158+78.24
8.80' LT
49' R

158+77.18
6.00' LT

5' R

158+78.24
3.19' LT

157+80.18
0.00

158+60.84
0.00
49' R

8:1 TAPER

100' LEFT TURN BAY

159+04.39
36.00' RT

159+04.39
61.00' RT

159+29.39
60.80' RT

159+27.51
69.39' RT

159+28.18
84.38' RT

159+63.96
83.65' RT

END PROJECT
I.D. 2415-00-71
STA 159+31.51

157 158 159 160 161 16

DESIGN NOTES

SEE CURB RAMP CONSTRUCTION DETAILS
FOR CURB RAMP GRADES AND LAYOUT

LEGEND

1. CONCRETE PAVEMENT 8-INCH (NON-DOWELED)
2. BUS STOP
3. HMA PAVEMENT 4 LT 58-28 S, 1 3/4-INCH
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18. MAINTENANCE RAMP (SEE CONSTRUCTION DETAIL)
19. CONCRETE DRIVEWAY 7-INCH
20. CONCRETE SIDEWALK 7-INCH

XXXXX SAWING CONCRETE

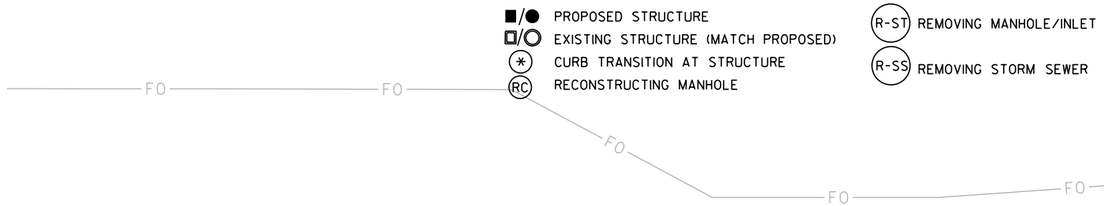
YYYYYYY SAWING ASPHALT

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 46	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\021215_pd.dgn PLOT DATE : 10/8/2018 PLOT BY : sxp PLOT NAME : PLOT SCALE : 1:40

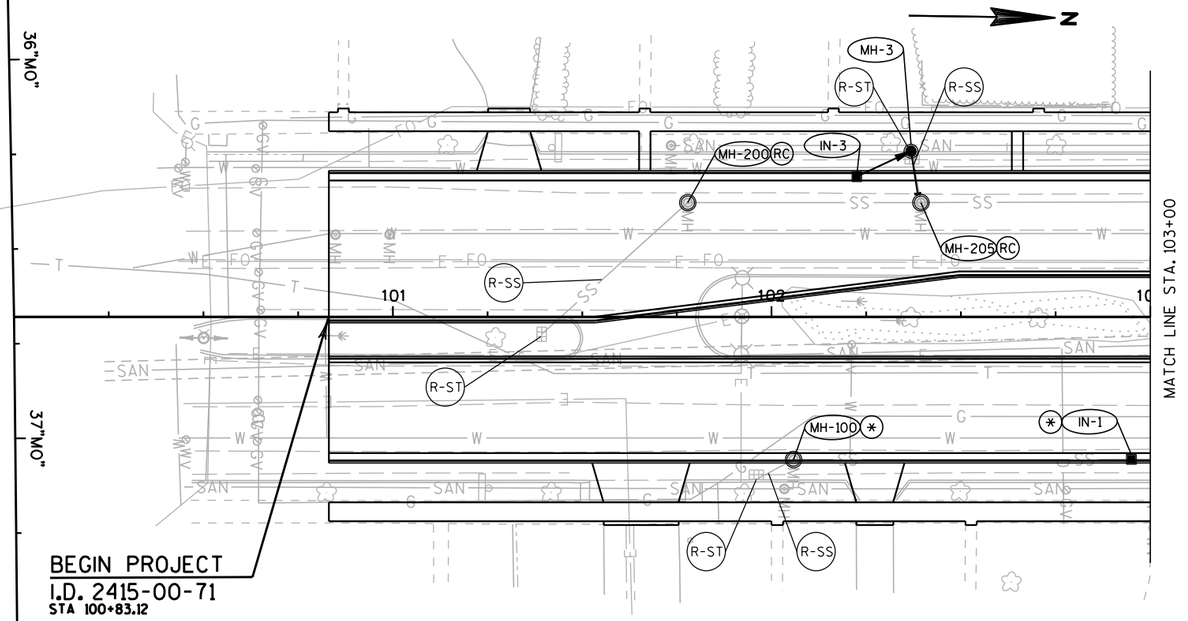
STORM SEWER LEGEND

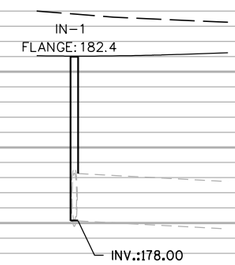
■/● PROPOSED STRUCTURE
□/○ EXISTING STRUCTURE (MATCH PROPOSED)
(*) CURB TRANSITION AT STRUCTURE
(RC) RECONSTRUCTING MANHOLE
(R-ST) REMOVING MANHOLE/INLET
(R-SS) REMOVING STORM SEWER

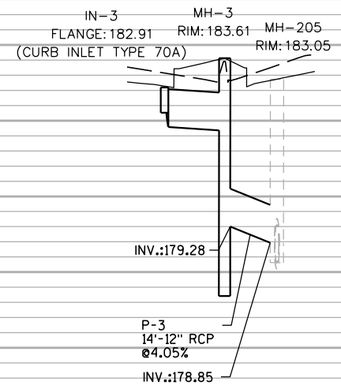


S. 60TH STREET

W. MORGAN AVENUE





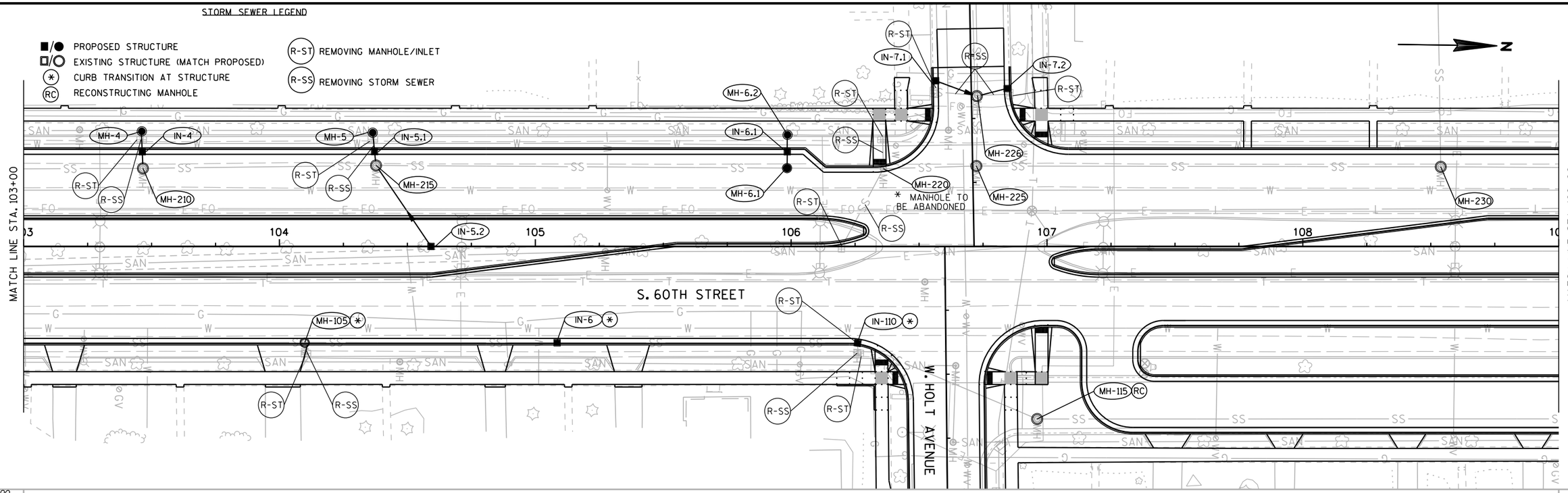


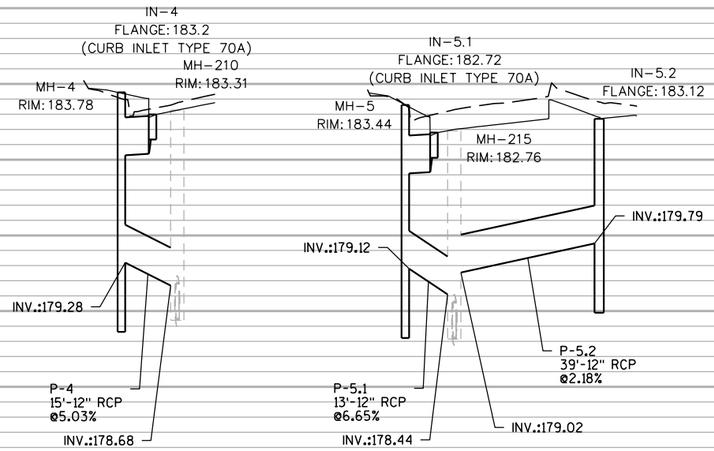
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STORM SEWER PLAN: S. 60TH STREET	SHEET 47	E

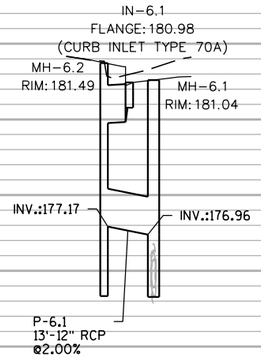
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PLOT BY : hxt
PLOT NAME :
PLOT SCALE : 1:40
WISDOT/CADDS SHEET 41

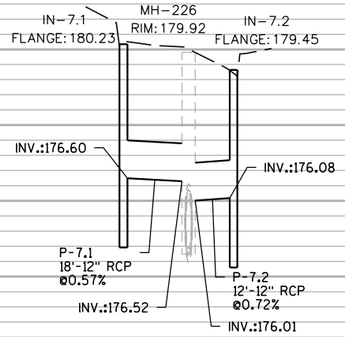
STORM SEWER LEGEND

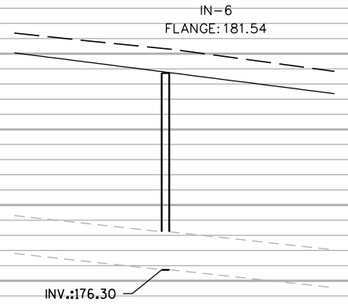
■/● PROPOSED STRUCTURE
□/○ EXISTING STRUCTURE (MATCH PROPOSED)
(*) CURB TRANSITION AT STRUCTURE
(RC) RECONSTRUCTING MANHOLE
(R-ST) REMOVING MANHOLE/INLET
(R-SS) REMOVING STORM SEWER







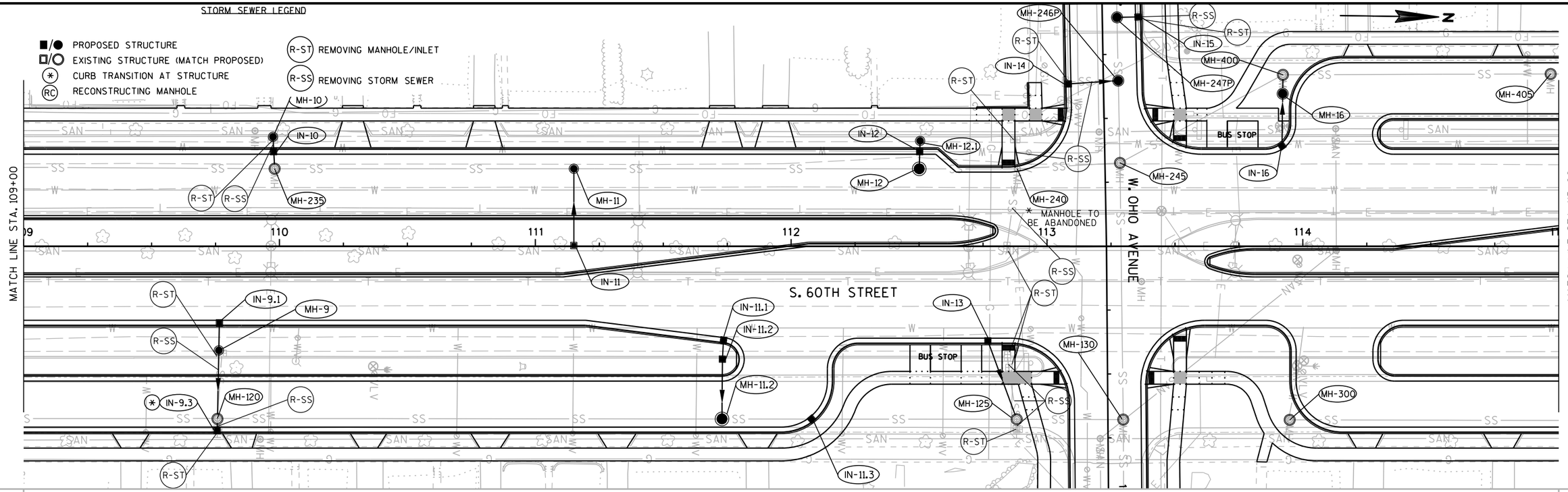


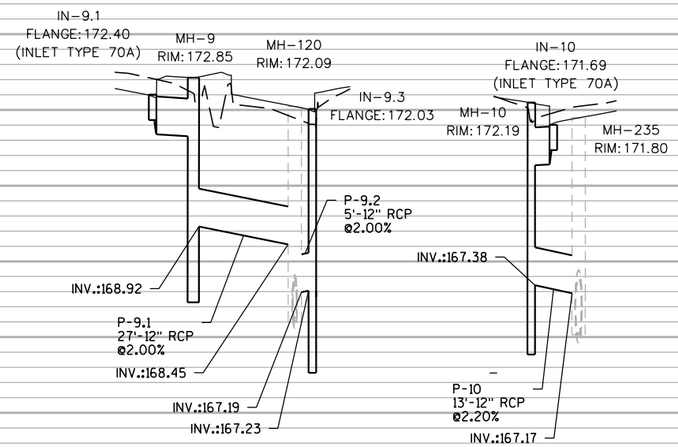


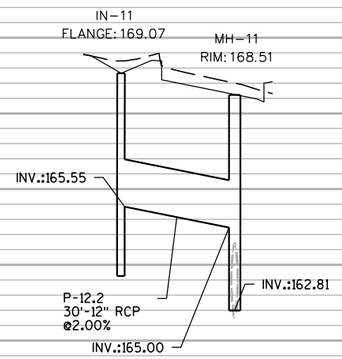
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STORM SEWER PLAN: S. 60TH STREET	SHEET 48 E

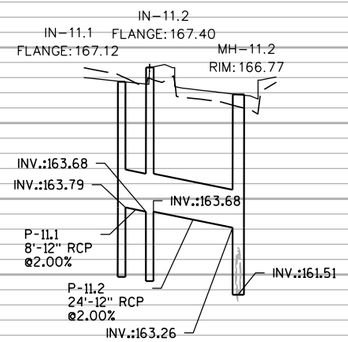
STORM SEWER LEGEND

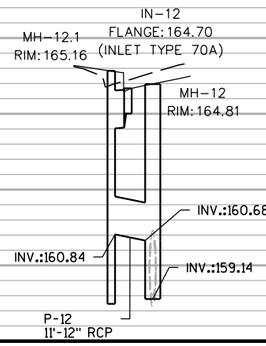
■/● PROPOSED STRUCTURE
□/○ EXISTING STRUCTURE (MATCH PROPOSED)
(*) CURB TRANSITION AT STRUCTURE
(RC) RECONSTRUCTING MANHOLE
(R-ST) REMOVING MANHOLE/INLET
(R-SS) REMOVING STORM SEWER









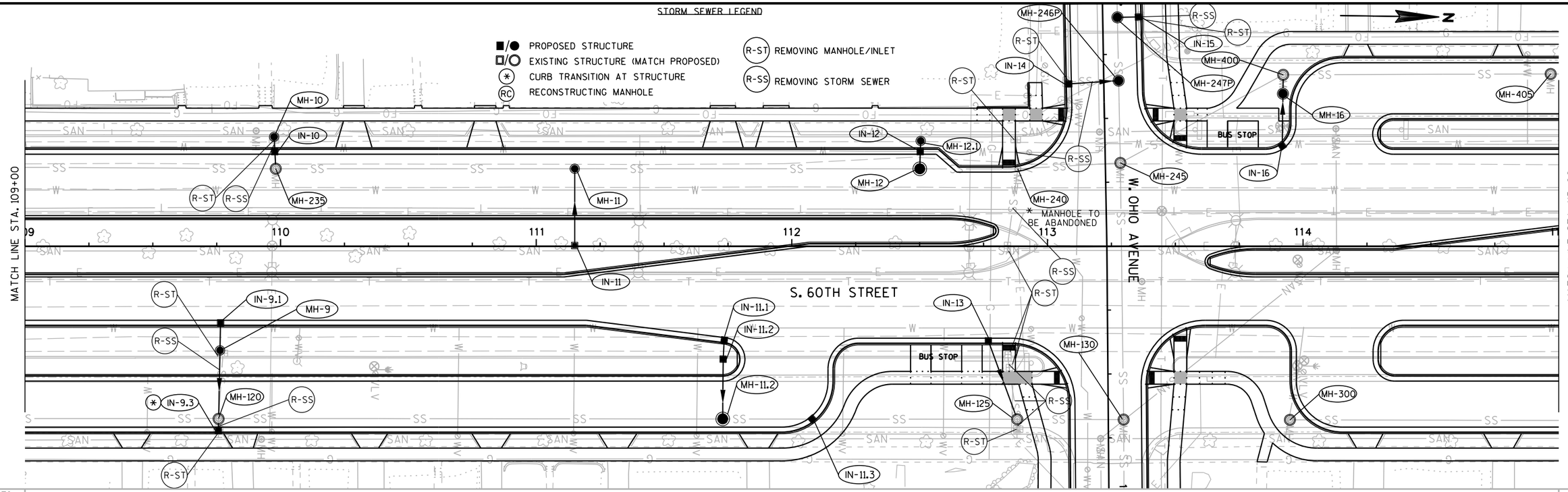


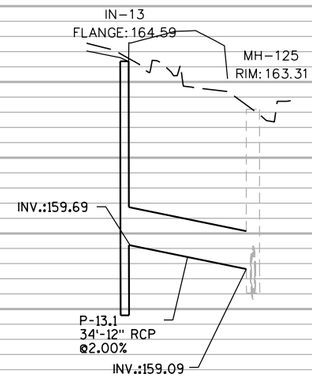


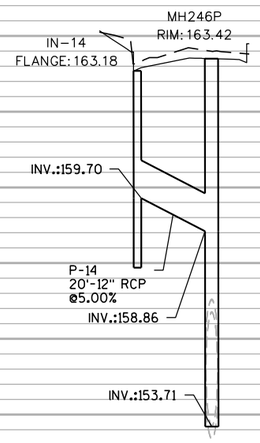
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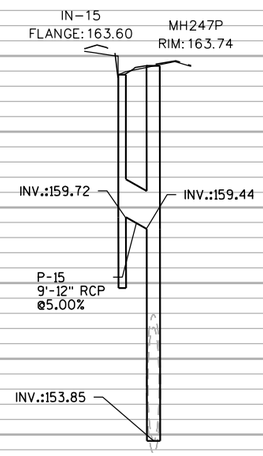
STORM SEWER LEGEND

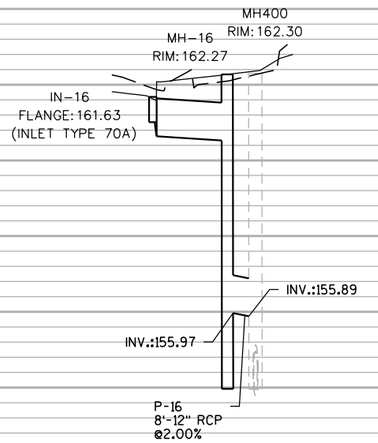
■/● PROPOSED STRUCTURE
□/○ EXISTING STRUCTURE (MATCH PROPOSED)
(*) CURB TRANSITION AT STRUCTURE
(RC) RECONSTRUCTING MANHOLE
(R-ST) REMOVING MANHOLE/INLET
(R-SS) REMOVING STORM SEWER





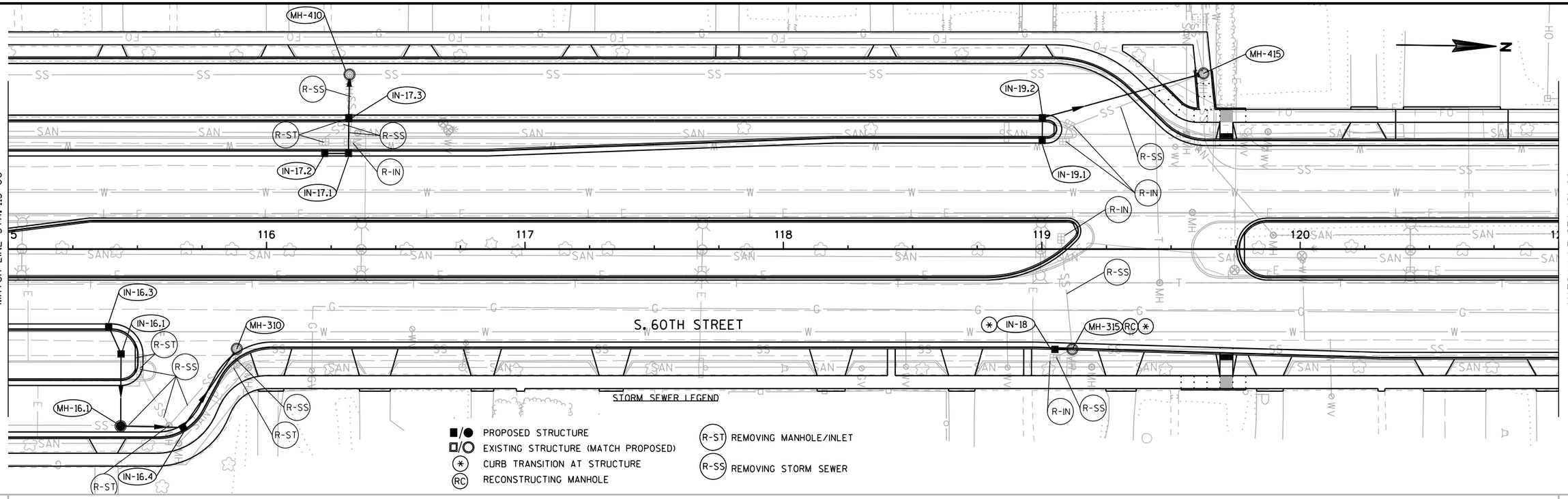


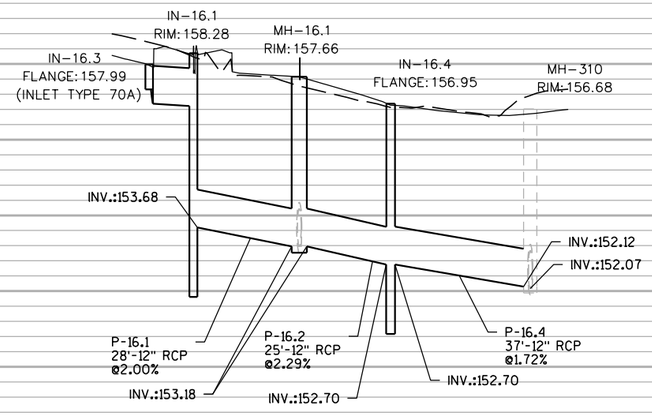


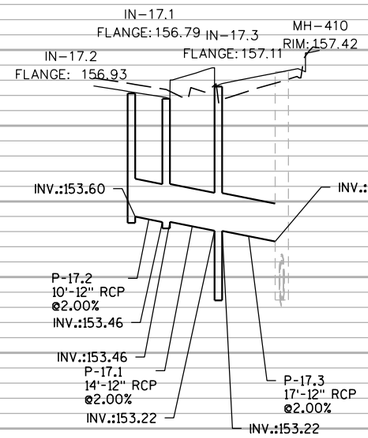


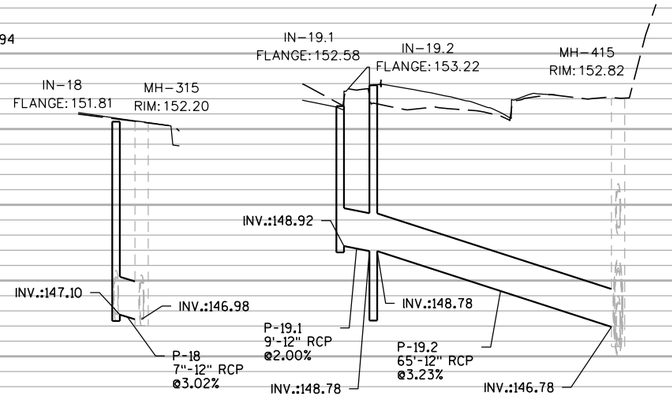
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PLOT BY : hxt
PLOT NAME :
PLOT SCALE : 1:40
WISDOT/CADDS SHEET 41

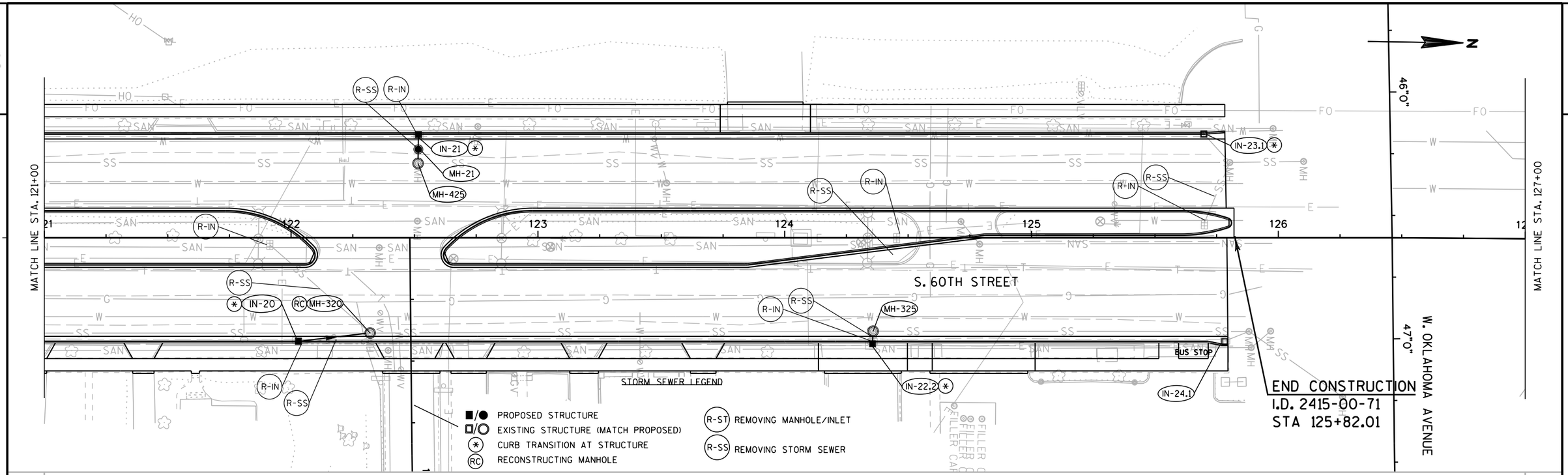


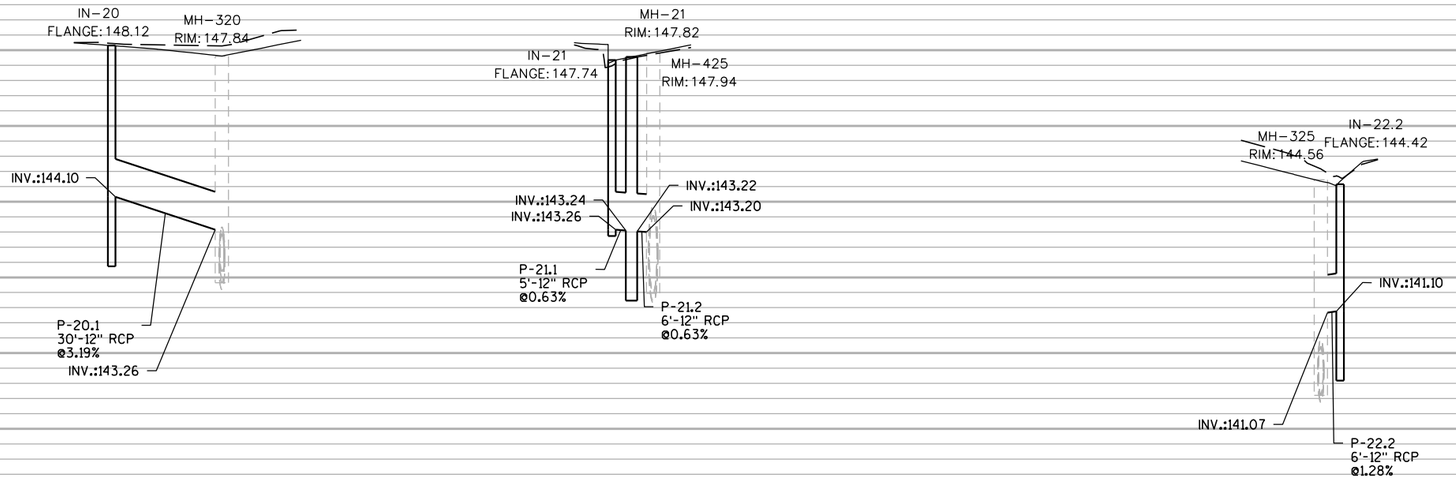






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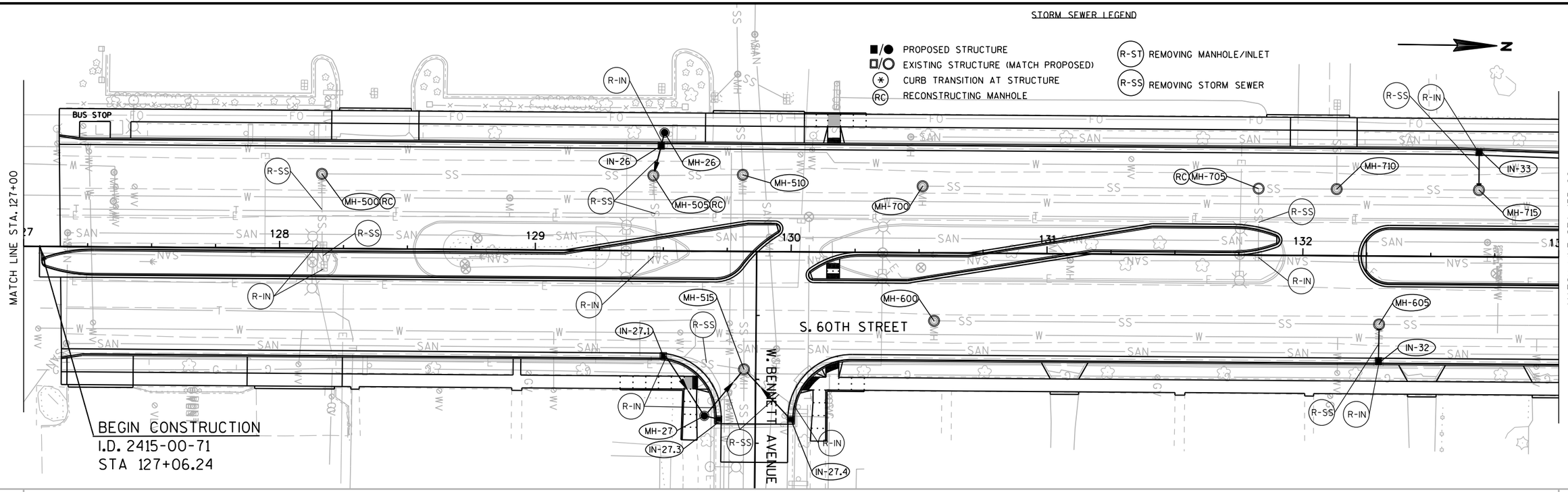
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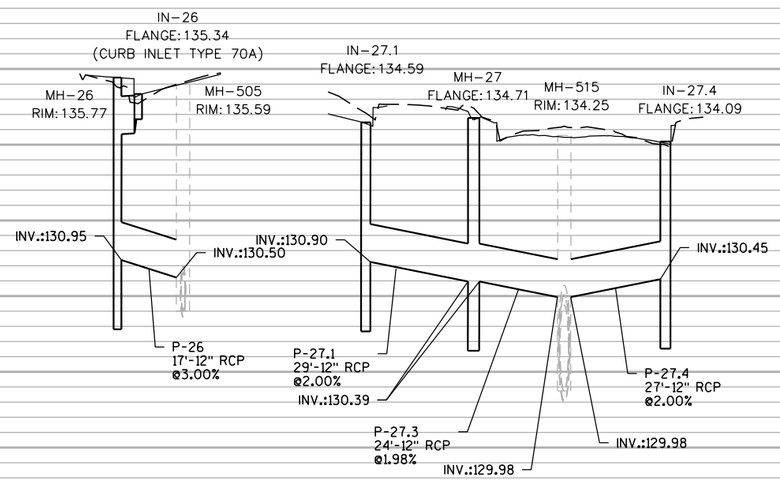
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WISDOT/CADDS SHEET 41

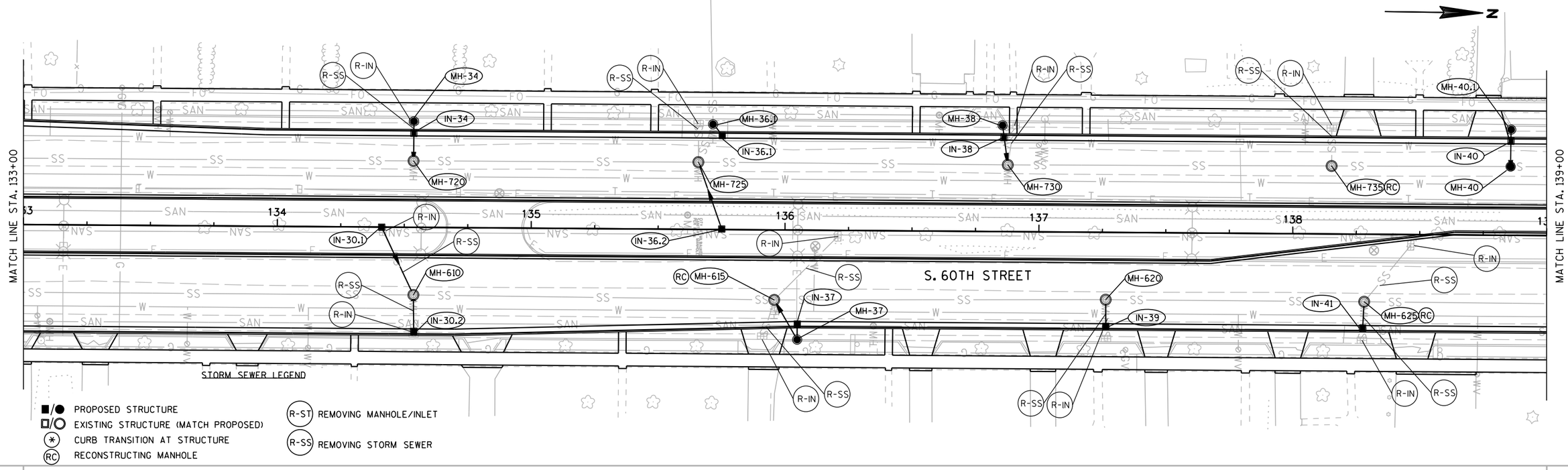
STORM SEWER LEGEND

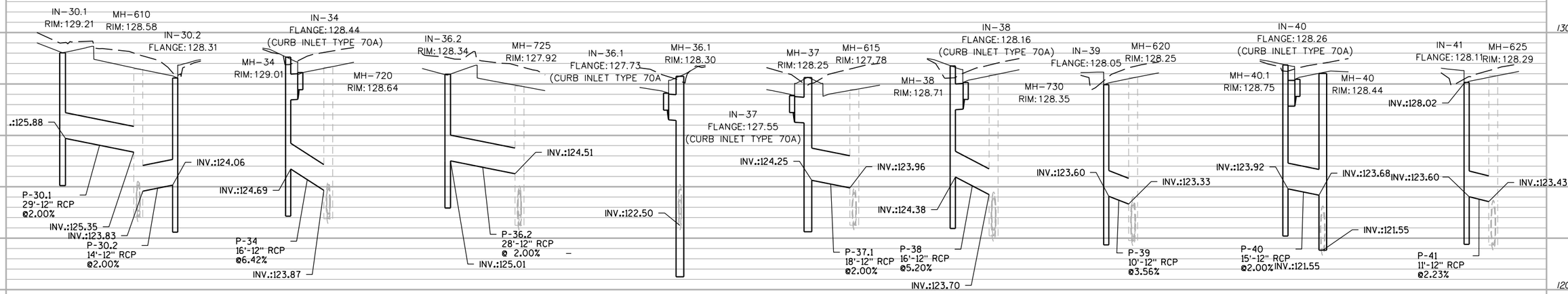
■/● PROPOSED STRUCTURE
□/○ EXISTING STRUCTURE (MATCH PROPOSED)
(*) CURB TRANSITION AT STRUCTURE
(RC) RECONSTRUCTING MANHOLE
(R-ST) REMOVING MANHOLE/INLET
(R-SS) REMOVING STORM SEWER





PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STORM SEWER PLAN: S. 60TH STREET	SHEET 53	E



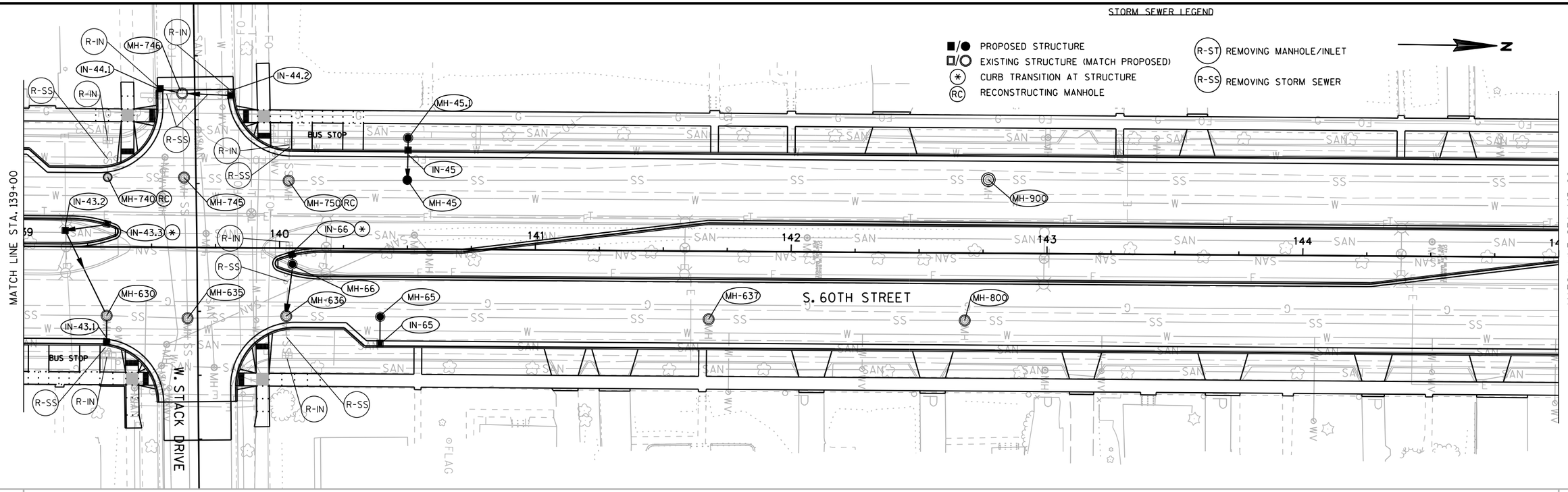


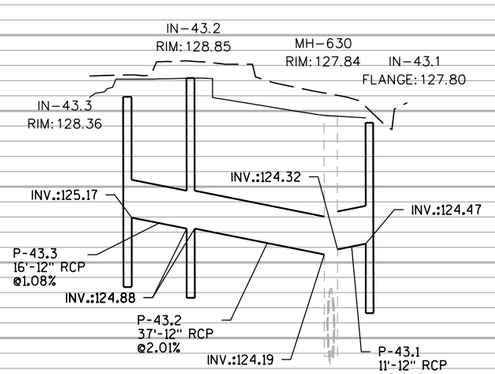
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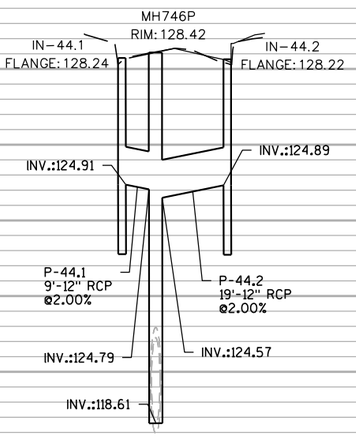
STORM SEWER LEGEND

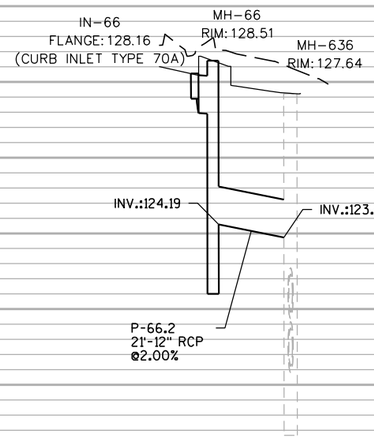
■/● PROPOSED STRUCTURE
□/○ EXISTING STRUCTURE (MATCH PROPOSED)
(*) CURB TRANSITION AT STRUCTURE
(RC) RECONSTRUCTING MANHOLE
(R-ST) REMOVING MANHOLE/INLET
(R-SS) REMOVING STORM SEWER

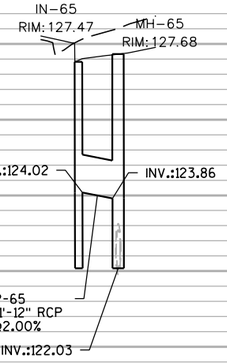
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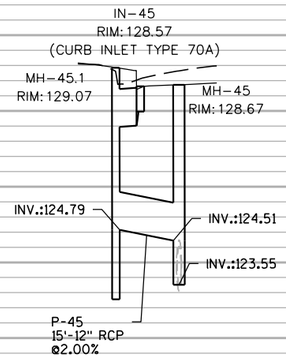




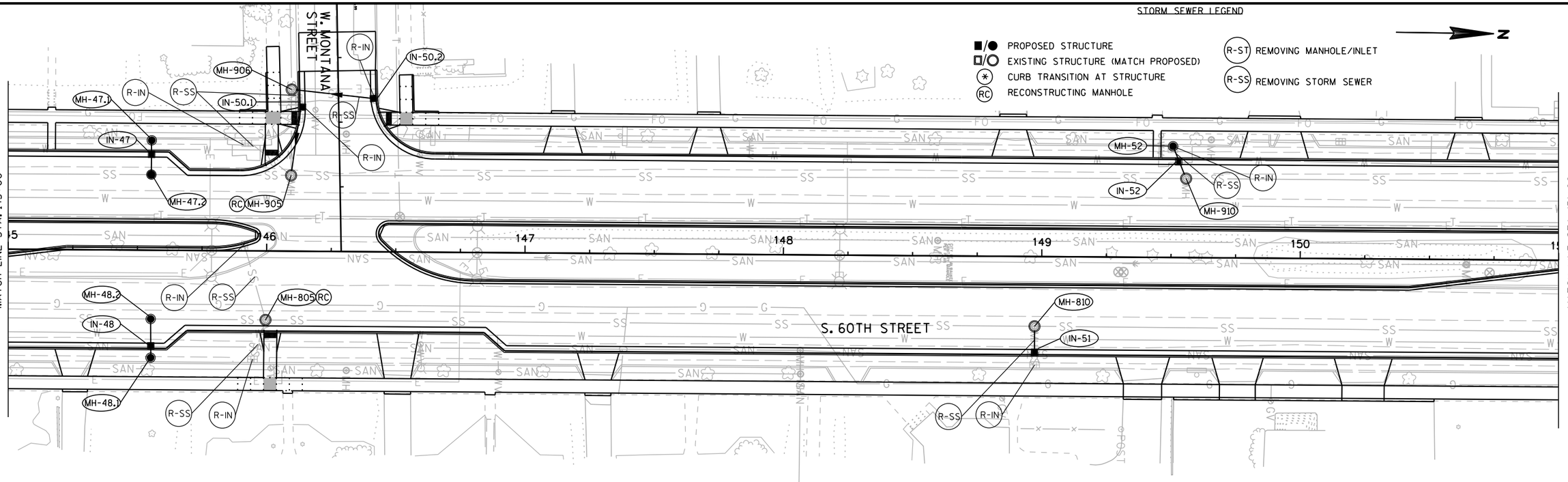








PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STORM SEWER PLAN: S. 60TH STREET	SHEET 55	E



130

IN-47
FLANGE: 126.37
(CURB INLET TYPE 70A)

MH-47.2
RIM: 126.51
MH-47.1
RIM: 126.97
INV.: 122.65
INV.: 122.43
INV.: 120.36
P-47
14'-12" RCP
@2.00%

IN-48
FLANGE: 125.51
(CURB INLET TYPE 70A)
MH-48.2
RIM: 125.89
MH-48.1
RIM: 126.01
INV.: 121.69
INV.: 121.44
INV.: 120.10
P-48
15'-12" RCP
@2.00%

MH-906
RIM: 126.16
IN-50.2
FLANGE: 125.50
INV.: 121.40
P-50.2
32'-12" RCP
@0.70%
INV.: 121.20

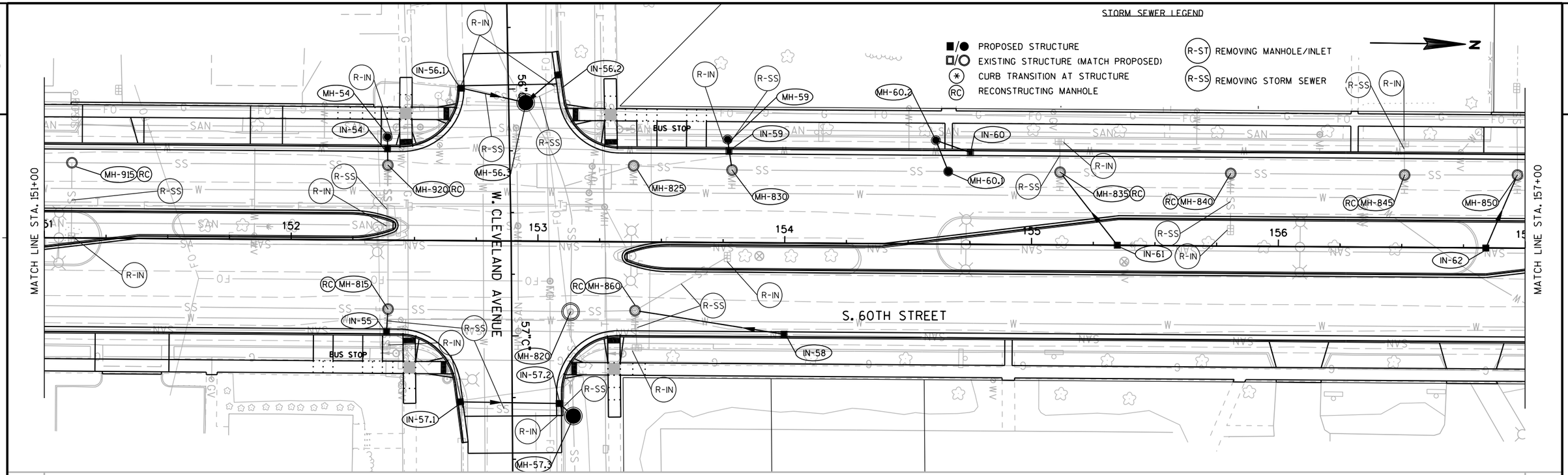
IN-50.1
FLANGE: 125.45
MH-905
RIM: 125.65
INV.: 122.05
INV.: 121.93
P-50.1
27'-12" RCP
@0.50%

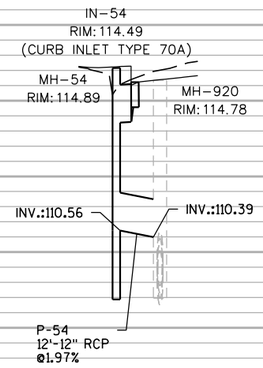
IN-51
RIM: 118.25
MH-810
RIM: 118.43
INV.: 114.21
INV.: 114.11
INV.: 113.46
P-51
10'-12" RCP
@1.38%

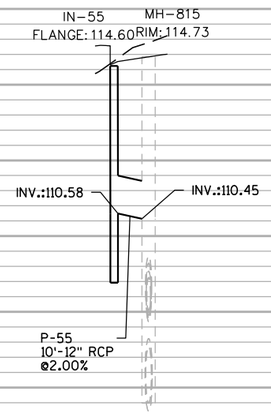
IN-52
FLANGE: 118.48
(CURB INLET TYPE 70A)
MH-52
RIM: 119.03
MH-910
RIM: 118.54
INV.: 114.71
INV.: 114.15
P-52
14'-12" RCP
@5.21%

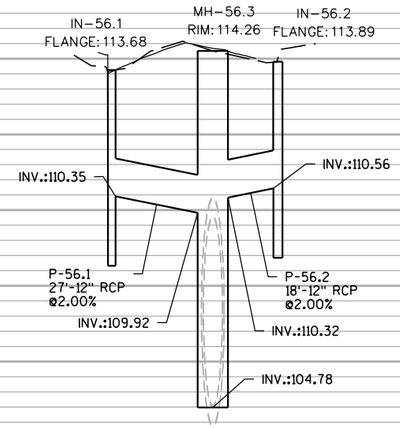
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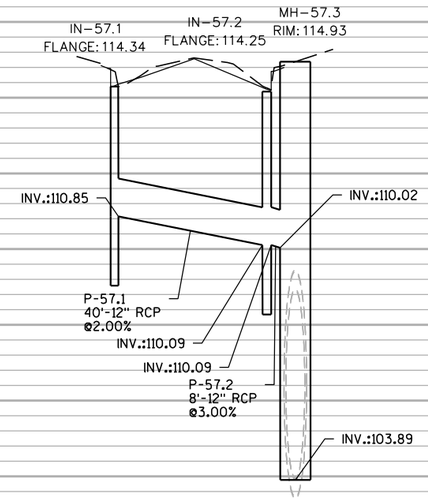
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STORM SEWER PLAN: S. 60TH STREET	SHEET 56	E





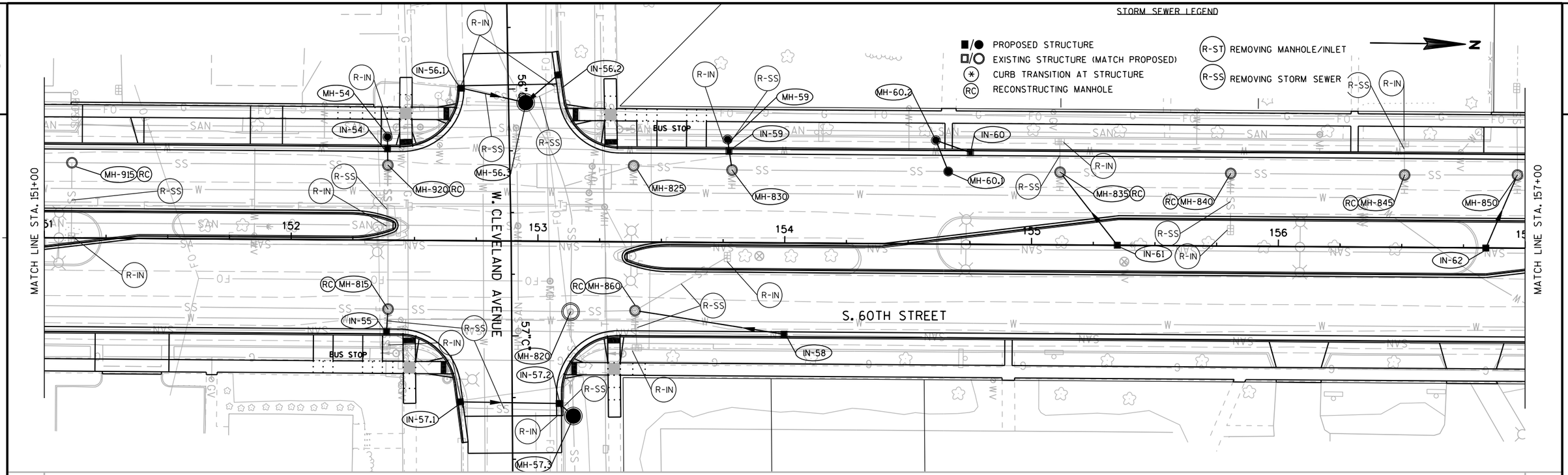


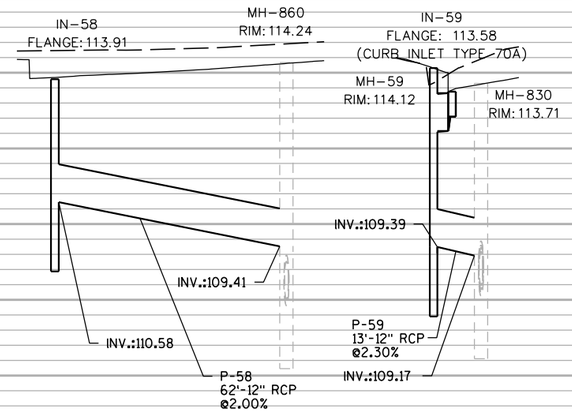


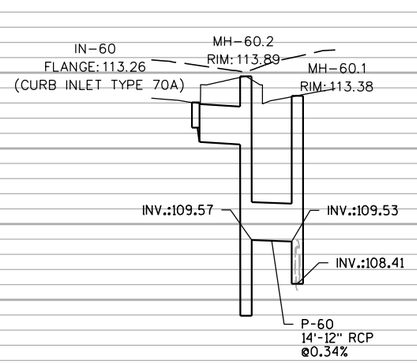


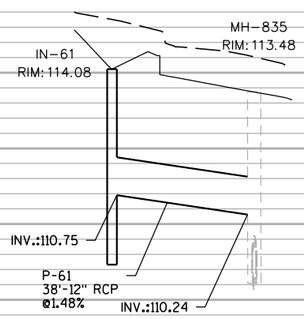
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STORM SEWER PLAN: S. 60TH STREET	SHEET 57	E

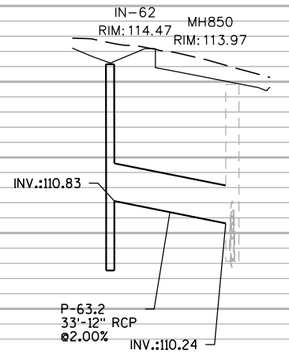
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PLOT DATE : 8/28/2018
PLOT BY : hxt
PLOT NAME :
PLOT SCALE : 1:40
WISDOT/CADDS SHEET 41











PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STORM SEWER PLAN: S. 60TH STREET	SHEET 58	E

2

MATCH LINE STA. 157+00

W. KINNICKINNIC PKWY

S. 60TH STREET

R-IN
IN-1010
R-SS
R-IN
CC-1000
IN-63
RC
MH-855
R-SS
R-IN
MH1000P
R-IN
IN-1030
R-SS
MH-1003
IN-64
R-SS
R-IN
MH1005P
R-SS

END CONSTRUCTION
I.D. 2415-00-01/71
STA 160+01.78

END PROJECT
I.D. 2415-00-01/71
STA 159+31.51

STORM SEWER LEGEND

- ■/● PROPOSED STRUCTURE
- □/○ EXISTING STRUCTURE (MATCH PROPOSED)
- (*) CURB TRANSITION AT STRUCTURE
- (RC) RECONSTRUCTING MANHOLE
- (R-ST) REMOVING MANHOLE/INLET
- (R-SS) REMOVING STORM SEWER

120

110

100

IN-63
FLANGE: 113.51
MH-855
RIM: 113.73
INV.: 109.97
INV.: 109.90
P-63
8'-12" RCP
@1.10%

IN-64
FLANGE: 113.18
MH1005P
RIM: 113.80
INV.: 104.91
INV.: 101.50
P-64
43'-12" RCP
@1.99%
INV.: 104.16

MH1002
RIM: 116.21
IN-1010
RIM: 114.60
INV.: 112.46

MH1003
RIM: 116.21
IN-1030
RIM: 115.90
INV.: 111.44
P1013
15'-12" RCP
@1.81%
INV.: 111.23

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STORM SEWER PLAN: S. 60TH STREET	SHEET 59 E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\022511_ss.dgn PLOT DATE : 8/29/2018 PLOT BY : hxt PLOT NAME : PLOT SCALE : 1:40

STORM SEWER LEGEND

- ■/● PROPOSED STRUCTURE
- □/○ EXISTING STRUCTURE (MATCH PROPOSED)
- (*) CURB TRANSITION AT STRUCTURE
- (RC) RECONSTRUCTING MANHOLE
- (R-ST) REMOVING MANHOLE/INLET
- (R-SS) REMOVING STORM SEWER

W. KINNICKINNIC PKWY

S. 60TH STREET

N

8"K"

9"K"

7"K"

11"K"

12"K"

159

158

MH1000P

MH1005P

R-SS

EX 60-INCH SS

9'X 6'-6" CONCRETE CULVERT
APPROXIMATE LOCATION

DELINEATED WETLAND

W.M. TO BE ABANDONED BY OTHERS

MH1000P
RIM: 113.76

MH1005P
RIM: 113.80

REMOVING OLD STRUCTURE STA 158+18.68
9'X 6'-6" CONCRETE CULVERT ON
FOOTINGS PER 1959 AS-BUILT

18-INCH SS
DIRECT CONNECTION
ELEVATION UNKNOWN

REINFORCED CONCRETE COLLAR REQ'D
(CC-1000)

INV.:102.63

EX 60-INCH SS
(CMP CONSTRUCTED IN 1959.
32'EAST EXTENSION
CONSTRUCTED IN 1964.)

INV.:102.74

INV.:101.61

EW-1000

INV.:104.14

INV.:100.41

INV.:100.27

INV.:101.50

P-1000
17'-60" RCP
@1.70%
INV.:102.82

P-1000.1
72'-60" RCP
@1.70%

CONCRETE COLLAR REQ'D
(CC-1000T)

P-1000.2
67'-60" RCP
@1.70%

EXISTING 48" WATER MAIN
FLOWLINE ELEVATION: 92.00 +/-
TOP OF PIPE ELEVATION: 96.4 +/-

110

100

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STORM SEWER - PROPOSED	SHEET 60	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\022512_ss.dgn PLOT DATE : 8/28/2018 PLOT BY : hxt PLOT NAME : PLOT SCALE : 1:40

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISIEZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTIONS AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- (B) (R) - BLACK/RED TERMINATION SEQUENCE

POLE ADDRESS · TRAFFIC · ADDRESS LOCATION · CURB · PLACE ADDRESS 6'-0" ABOVE GRADE

N

W. MORGAN AVE.

EXIST. 17"X30"X30" VAULT

3#4/1#8LTP CABLE CIR.T60S-C IN CONDUIT

#6004 EXISTING SP (S40-1716) TYPE 10 BASE TYPE TO POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-164W ATBM-H TYPE 3 DIST.

EXIST. 17"X30"X30" VAULT

EXIST. 17"X30"X30" VAULT

3#4/1#8LTP CABLE CIR.T60S-C IN CONDUIT

2-3" SCH. 40

13"x24"x24" PULL BOX 112 STA.101+85.0'; 0LT

#3460 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.101+89'; 4'RT

#3440 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.103+31'; 0'RT

#3480 EXISTING (S40-1715) TYPE 10 BASE TYPE TO POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-164W ATBM-H TYPE 3 DIST.

PROJECT START

EXISTING 13"x24"x24" PULL BOX STA.101+42'; 3'RT

#3460 LIGHT POLE REMOVED BY CITY

DETAIL B 100 3" PVC 2'BACK OF CURB

#3440 LIGHT POLE REMOVED BY CITY (R)

3#4/1#8 LTP CIR.T60S-B INSTALL IN CONDUIT

EXISTING 17"x30"x24" PULL BOX

SECTION LINE N.00°39'43"W.

EXIST. 17"X30"X30" VAULT

2-3" SCH. 40

EXISTING 3" PVC 2" BEHIND CURB

DETAIL B 100 3" PVC JOIN EXISTING PULL BOX TO NEW CAP ENDS IN VAULT

S.60th ST.

CONCRETE BASE REMOVED BY CONTRACTOR

3#4/1#8 LTP CIR.T60S-B INSTALL IN CONDUIT LABEL END W/ CIR. ID

CONCRETE BASE REMOVED BY CONTRACTOR

DETAIL B 100 3" PVC 2'BACK OF CURB

PROJECT START

3#4/1#8LTP CABLE CIR.T60S-C IN CONDUIT

2-3" SCH. 40

3#4/1#8LTP CABLE CIR.T60S-C IN CONDUIT

EXIST. 17"X30"X30" VAULT

#5920 EXISTING SP (S40-1714) TYPE 10 BASE TYPE TO POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-164W ATBM-H TYPE 3 DIST.

EXIST. 17"X30"X30" VAULT

EXIST. 17"X30"X30" VAULT

101 102 103 104 +50

SCALE, FEET 0 30

SHEET 1 OF 13

PROJECT NO: 2415–00–71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 61	E

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- (B) (R) - BLACK/RED TERMINATION SEQUENCE

N

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISIEZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY LIGHT POLE HAND HOLE PANEL OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTIONS AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

W. HOLT AVE.

S.60th ST.

#6016 EXISTING CONC. POLE TO REMAIN FINAL TERMINATION BY CITY

3" PVC SPECIAL CAPPED STA.106+86'; 182LT

3#6/1#8 LTP CIR.T60S-B INSTALL IN CONDUIT LABEL END W/ CIR. ID

12.5'-3" PVC SPECIAL PULL BOX TO EXIST. UNIT #6016

112 13"x24"x24" PULL BOX STA.106+90; 68'LT 140' 3#6/1#8LTP COILED, TAGGED CIR. T60S-B

#3422 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.104+73'; 0'RT

POLE ADDRESS — ADDRESS LOCATION — TRAFFIC — CURB — PLACE ADDRESS 6'-0" ABOVE GRADE

112 13"x24"x24" PULL BOX STA.106+14; 42'LT

112 13"x24"x24" PULL BOX STA.106+50; 67'LT

3.0" PVC SCH.80 102

3.0" PVC SCH.40

3#6/1#8 LTP CIR.T60S-B INSTALL IN CONDUIT

112 13"x24"x24" PULL BOX STA.107+10; 41'LT

#3376 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.107+24'; 6'RT

#3356 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.108+56'; 0'RT

101 3" PVC

3.0" PVC SCH.40

3.0" PVC SCH.80 102

3#4/1#8 LTP CIR.T60S-B INSTALL IN CONDUIT

CONCRETE BASE REMOVED BY CONTRACTOR

#3422 LIGHT POLE REMOVED BY CITY

3#4/1#8 LTP CIR.T60S-B INSTALL IN CONDUIT

13"x24"x24" PULL BOX STA.106+14.0'; 6.0LT 112

CONCRETE BASE REMOVED BY CONTRACTOR

105 106 107 108 109 +50

DETAIL B 100 3" PVC 2' BACK OF CURB

#3402 LIGHT POLE REMOVED BY CITY

#3402 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.106+8'; 6'LT

13"x24"x24" PULL BOX STA.106+16.0'; 42.0'RT 112

3#2/1#8 LTP CIR.T60S-B INSTALL IN CONDUIT

#3376 LIGHT POLE REMOVED BY CITY

13"x24"x24" PULL BOX STA.107+10; 2'RT 112

#3356 LIGHT POLE REMOVED BY CITY

13"x24"x24" PULL BOX STA.106+43';70'RT 112

20'-3#6/1#8 LTP CIR.T60S-B LABELED & COILED

13"x24"x24" PULL BOX STA.106+80.0'; 70.0'RT 112

#5935 EXISTING CONC. POLE TO REMAIN FINAL TERMINATION BY CITY

#5816 EXISTING CONC. POLE TO REMAIN FINAL TERMINATION BY CITY

3#2/1#8 LTP CIR.T60S-B INSTALL IN CONDUIT 200' TO #5816 LABEL END W/ CIR. ID

3" PVC SCH 40 SPECIAL, END CAPPED STA.106+86'; 200'RT

SCALE, FEET 0 30

SHEET 2 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60th St.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 62	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISIEZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTIONS AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP)CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- Ⓑ Ⓡ - BLACK/RED TERMINATION SEQUENCE

POLE ADDRESS · TRAFFIC · ADDRESS LOCATION · CURB · PLACE ADDRESS 6'-0" ABOVE GRADE

#6013 EXISTING CONC. POLE TO REMAIN FINAL TERMINATION BY CITY STA.113+1; 152'LT

#3338 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.109+90'; 0'RT

#3318 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.111+25'; 0'RT

#3302 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.112+61'; 6'LT

#3280 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.113+79'; 5.5'RT

#3280 LIGHT POLE REMOVED BY CITY

#3338 LIGHT POLE REMOVED BY CITY

#3318 LIGHT POLE REMOVED BY CITY

#3302 LIGHT POLE REMOVED BY CITY

W. OHIO AVE.

S.60th ST.

BUS STOP

85'-3" PVC SPECIAL PULL BOX TO EXIST. UNIT #6013 END CAPPED

3#2/1#8 LTP CIR.T43S-D INSTALL IN CONDUIT LABEL END W/ CIR. ID

3#4/1#8 LTP CIR.T60S-B INSTALL IN CONDUIT

3#2/1#8 LTP CIR.T60S-D INSTALL IN CONDUIT

3#2/1#8 LTP CIR.T43S-D INSTALL IN CONDUIT

CONCRETE BASE REMOVED BY CONTRACTOR

DETAIL B 100 3" PVC 2'BACK OF CURB

13"x24"x24" PULL BOX STA.112+69; 40'LT

13"x24"x24" PULL BOX STA.113+42; 67'LT

13"x24"x24" PULL BOX STA.113+76; 40'LT

13"x24"x24" PULL BOX STA.112+69; 5'LT

13"x24"x24" PULL BOX STA.112+69; 40'RT

13"x24"x24" PULL BOX STA.113+76; 6'RT

13"x24"x24" PULL BOX STA.113+4; 96'RT

3.0" PVC SCH.40

3.0" PVC SCH.80

3" PVC

SCALE, FEET 0 30

SHEET 3 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 63	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISIEZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTIONS AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

N

3#2/1#8 LTP CIR.T43S-D INSTALL IN CONDUIT

CONCRETE BASE REMOVED BY CONTRACTOR

#3260 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.115+9', 2'RT

3#2/1#8 LTP CIR.T43S-D INSTALL IN CONDUIT

#3240 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.116+38', 0'RT

3#2/1#8 LTP CIR.T43S-D INSTALL IN CONDUIT

#3220 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.117+70', 0'RT

3#2/1#8 LTP CIR.T43S-D INSTALL IN CONDUIT

S.60th ST.

DETAIL B 100 3" PVC 2'BACK OF CURB

#3260 LIGHT POLE REMOVED BY CITY

DETAIL B 100 3" PVC 2'BACK OF CURB

#3240 LIGHT POLE REMOVED BY CITY

DETAIL B 100 3" PVC 2'BACK OF CURB

#3220 LIGHT POLE REMOVED BY CITY

CONCRETE BASE REMOVED BY CONTRACTOR

DETAIL B 100 3" PVC 2'BACK OF CURB

POLE ADDRESS

ADDRESS LOCATION

TRAFFIC

CURB

PLACE ADDRESS 6'-0" ABOVE GRADE

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- ØØØ - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- Ⓑ Ⓡ - BLACK/RED TERMINATION SEQUENCE

SCALE, FEET 0 30

SHEET 4 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 64	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

LOCATIONS THAT HAVE DETAIL NOTE "105" ARE AREAS THAT ARE BOXED OUT AND FILLED WITH A 4" THICK ASPHALTIC SURFACE TEMPORARY UNDER BID #465.0125

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

N

#3208
TYPE 5 BASE
TRANSFORMER BASE
25' AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.118+99'; 4'LT

#3181
EXIST DOUBLE CANISTER
W/ 38W LED LUMINAIRES
TO REMAIN IN SERVICE

100
3" PVC SPECIAL
AT WALK

3#6/1#8 LTP
CIR.T43S-D
INSTALL IN
CONDUIT

DETAIL B
100
3" PVC
AT WALK

112
13"x24"x24"
PULL BOX
STA.119+92; 46.5"LT

3#6/1#8 LTP
CIR.T43S-D
INSTALL IN
CONDUIT

#3172
TYPE 5 BASE
TRANSFORMER BASE
25' AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.120+33'; 0'RT

SERVICE ADDRESS:
3165 S. 60TH ST.
WEPCO 40' WOOD POLE
MOUNT METER
SINGLE PHASE PRIMARY SERVICE
TERMINATIONS BY CITY

#3154
TYPE 5 BASE
TRANSFORMER BASE
25' AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.121+68'; 0'RT

#2 ALU. CONC. 15KV
PRIMARY FEED
INSTALL IN CONDUIT
MINIMUM 36" DEEP

#3142
TYPE 5 BASE
TRANSFORMER BASE
25' AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.122+91'; 0'RT

NEW 2.5" PVC
SERVICE ENTRANCE
1' OFF BACK OF WALK
MIN. 36" DEEP

NEW 2.5" PVC SCH.80
SERVICE ENTRANCE
1' OFF BACK OF WALK
MIN. 36" DEEP

#3208
LIGHT POLE
REMOVED
BY CITY

3#2/1#8 LTP
CIR.T43S-D
INSTALL IN
CONDUIT

101
3" PVC

102
3.0" PVC
SCH.80

112
13"x24"x24"
PULL BOX
STA.119+92; 8'LT

#3172
LIGHT POLE
REMOVED
BY CITY

DETAIL B
100
3" PVC
2' BACK OF CURB

3#2/1#8 LTP
CIR.T43S-D
INSTALL IN
CONDUIT

DETAIL B
100
3" PVC
2' BACK OF CURB

CONCRETE
BASE
REMOVED BY
CONTRACTOR

102
3" PVC
SCH. 80

3#2/1#8 LTP
CIR.T43S-D
INSTALL IN
CONDUIT

CONCRETE
BASE
REMOVED BY
CONTRACTOR

CONCRETE
BASE
REMOVED BY
CONTRACTOR

102
3.0" PVC
SCH.80

112
13"x24"x24"
PULL BOX
STA.119+5; 8'LT

MATE END TO CUC STUB
STA.119+90; 8'LT
AT 39" BELOW FINISHED GRADE

DETAIL B
100
2" PVC
(CTL & ALARMS)
MAINTAIN 39" BELOW
FINISHED GRADE

DETAIL B
100
2" PVC
(CTL & ALARMS)
MAINTAIN 39" BELOW
FINISHED GRADE

#3154
LIGHT POLE
REMOVED
BY CITY

102
2" PVC
(CTL & ALARMS)
MAINTAIN 39" BELOW
FINISHED GRADE

#3142
LIGHT POLE
REMOVED
BY CITY

DETAIL B
100
2" PVC
(CTL & ALARMS)

3#2/1#8 LTP
CIR.T43S-D
INSTALL IN
CONDUIT

S.60th ST.

W. LAKEFIELD DR.

120 +50 121 +50 122 +50 123 +50

SAN MMSD CUC T G W HW WV VLV

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- (B) (R) - BLACK/RED TERMINATION SEQUENCE

POLE ADDRESS
ADDRESS LOCATION
TRAFFIC
CURB
PLACE ADDRESS 6'-0" ABOVE GRADE

SCALE, FEET 0 30

SHEET 5 OF 13

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 65	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISIEZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTIONS AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

N

#2 ALU. CONC. 15KV PRIMARY FEED INSTALL IN CONDUIT MINIMUM 36" DEEP TERMINATIONS BY CITY

112 13"x24"x24" PULL BOX STA.124+14.0'; 45.5'RT

3#2/1#8 LTP CIR.T43S-A INSTALL IN CONDUIT

EXISTING SP (S40-1860) TYPE 10 BASE TYPE 9 POLE

EXIST. 17"X30"X30" VAULT

102 2.5" PVC SCH.80 CROSSING AT STA.123+62.0' MIN. 36" DEEP

3.0" PVC SCH.80 102

112 17"x30"x24" PULL BOX STA.124+15.0'; 8.0'LT

100 CONCRETE BASE REMOVED BY CONTRACTOR

#3122 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.124+40'; 2'LT

3#2/1#8 LTP CIR.T43S-B INSTALL IN CONDUIT

EXIST. 2-3" SCH.80

EXIST. 17"X30"X30" VAULT

#3102 EXISTING TYPE 5 BASE TRANSFORMER BASE 30' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-164W LED ATBM-H TYPE 3 DIST.

30' ARM

PROJECT END

3#2/1#8 LTP CIR.T43S-B INSTALLED IN CONDUIT

EXIST. 2-3" SCH.80

EXIST. 2-3" PVC SCH.40

3#2/1#8 LTP CIR.T43S-A INSTALL IN CONDUIT

EXIST. 17"X30"X30" VAULT

#6000 EXISTING SP (S40-1861) TYPE 10 BASE OVERHEIGHT TYPE 10 POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-164W ATBM-H TYPE 3 DIST.

30' ARM OVERHEIGHT

EXIST. 17"X30"X30" VAULT

DETAIL A 100 3" PVC SCH.40 FOR SERIES CIRCUIT

2" PVC SCH.40 FOR SERIES CIRCUIT CAP END IN EXIST. PULL BOX

PROJECT START

3#2/1#8 LTP CIR.T43S-B INSTALLED IN CONDUIT

EXIST. 17"X30"X30" VAULT

3#2/1#8 LTP CIR.T43S-B INSTALL IN CONDUIT

S.60th ST.

#3068 LIGHT POLE REMOVED BY CITY

DETAIL B 100 2" PVC (CTL & ALARMS) MAINTAIN 39" BELOW FINISHED GRADE CAP AT CONC. ENCLOSURE PAD

T43S 50KVA PAD MOUNT DIST. CAB.

3.0" PVC SCH.80 102

3#2/1#8 LTP CIR.T43S-C INSTALL IN CONDUIT

#3121 LIGHT POLE REMOVED BY CITY 900MHZ YAGI & CABLE REMOVED BY CITY

112 17"x30"x24" PULL BOX STA.124+15.0'; 4.0'RT

DETAIL B 100 3" PVC 2' BACK OF CURB

100 3.0" PVC

3#2/1#8 LTP CIR.T43S-C INSTALL IN CONDUIT

112 13"x24"x24" PULL BOX STA.124+10.0'; 46'RT

EXIST. 17"X30"X30" VAULT

PROJECT END

30' ARM OVERHEIGHT

3#2/1#8 LTP CIR.T43S-C INSTALL IN CONDUIT

EXIST. 17"X30"X30" VAULT

EXIST. 2-3" SCH.40

EXIST. 17"X30"X30" VAULT

EXIST. 2-3" SCH.40

EXIST. 17"X30"X30" VAULT

#3080 EXISTING SP (S40-1859) TYPE 10 BASE TYPE 10 POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-164W LED ATBM-H TYPE 3 DIST.

25' ARM

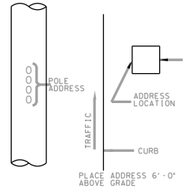
100 2-3.0" PVC SCH.40 2' BEHIND CURB

CONCRETE BASE REMOVED BY CONTRACTOR

#5940 EXISTING SP (S40-1859) TYPE 10 BASE OVERHEIGHT TYPE 10 POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-164W ATBM-H TYPE 3 DIST.

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- B R - BLACK/RED TERMINATION SEQUENCE



SCALE, FEET 0 30

SHEET 6 OF 13

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 66	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISIEZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTIONS AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

N

#3068
TYPE 5 BASE
TRANSFORMER BASE
25' AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.128+31'; 6'RT

112
13"x24"x24"
PULL BOX
STA.128+29'; 8.5'RT

3#2/1#8 LTP
CIR.T43S-B
INSTALL IN CONDUIT

CONCRETE
BASE
REMOVED BY
CONTRACTOR

#3054
TYPE 5 BASE
TRANSFORMER BASE
25' AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.129+33; 4'RT

#3054
LIGHT POLE
REMOVED
BY CITY

100
2-3.0" PVC
SCH.40
2' BEHIND
CURB

2-3.0" PVC
SCH.80

102

DETAIL A
100
3" PVC SCH.40
FOR SERIES CIRCUIT

112
13"x24"x24"
PULL BOX
STA.129+67.0'; 8'RT

3#6/1#8 LTP
CIR.T43S-B
INSTALL IN CONDUIT

CAP END
IN PULL BOX

112
13"x24"x24"
PULL BOX
STA.129+68.0'; 68'RT

#5939
EXISTING
CONC. POLE
TO REMAIN
FINAL TERMINATION
BY CITY

CONCRETE
BASE
REMOVED BY
CONTRACTOR

3.0" PVC
SCH.80

102

112
13"x24"x24"
PULL BOX
STA.130+17; 8'RT

#3038
TYPE 5 BASE
TRANSFORMER BASE
25' AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.130+40; 6'RT

#3038
LIGHT POLE
REMOVED
BY CITY

DETAIL B
100
3" PVC

3#2/1#8 LTP
CIR.T43S-B
INSTALL IN CONDUIT

DETAIL A
100
3" PVC SCH.40
FOR SERIES CIRCUIT

DETAIL B
100
3" PVC

#3020
LIGHT POLE
REMOVED
BY CITY

#3020
TYPE 5 BASE
TRANSFORMER BASE
25' AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.131+73'; 5.5'RT

112
13"x24"x24"
PULL BOX
STA.131+82.0'; 5.5'LT

CONCRETE
BASE
REMOVED BY
CONTRACTOR

102
3" PVC
SCH. 80

112
13"x24"x24"
PULL BOX
STA.132+31.0'; 5.5'RT

DETAIL B
100
3.0" PVC
SCH.40
2' BEHIND
CURB

3#2/1#8 LTP
CIR.T43S-B
INSTALL IN CONDUIT

DETAIL A
100
3" PVC SCH.40
FOR SERIES CIRCUIT

S.60th ST.

W. BENNETT AVE.

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- (B) (R) - BLACK/RED TERMINATION SEQUENCE

POLE ADDRESS
ADDRESS LOCATION
TRAFFIC
CURB
PLACE ADDRESS 6'-0" ABOVE GRADE

SCALE, FEET 0 30

SHEET 7 OF 13

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 67	E

FILE NAME : W:\bes\pavings\2018work\s60th St – Morgan to KK Parkway (2415-00-01)\inset.dgn PLOT DATE : 19-JUN-2018 15:22 PLOT BY : lhickm PLOT NAME : PLOT SCALE : 30.000000:1.000000 WISDOT/CADDS SHEET 42

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISIEZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTIONS AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

N

DETAIL A 100 — 3" PVC SCH.40 FOR SERIES CIRCUIT

#2964 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.134+54', 0'RT

DETAIL A 100 — 3" PVC SCH.40 FOR SERIES CIRCUIT

#3002 LIGHT POLE REMOVED BY CITY

#3002 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.133+15', 0'RT

3#2/1#8 LTP CIR.T43S-B INSTALL IN CONDUIT

#2964 LIGHT POLE REMOVED BY CITY

3#4/1#8 LTP CIR.T43S-B INSTALL IN CONDUIT

#2942 LIGHT POLE REMOVED BY CITY

#2942 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.136+3', 0'RT

3#4/1#8 LTP CIR.T43S-B INSTALL IN CONDUIT

#2922 LIGHT POLE REMOVED BY CITY

CONCRETE BASE REMOVED BY CONTRACTOR

CONCRETE BASE REMOVED BY CONTRACTOR

CONCRETE BASE REMOVED BY CONTRACTOR

DETAIL B 100 — 3" PVC 2' BACK OF CURB

DETAIL B 100 — 3" PVC 2' BACK OF CURB

DETAIL B 100 — 2' BACK OF CURB

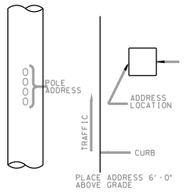
DETAIL B 100 — 3" PVC 2' BACK OF CURB

#2922 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.137+59', 0'RT

S.60th ST.

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP)CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- Ⓑ Ⓡ - BLACK/RED TERMINATION SEQUENCE



SCALE, FEET 0 30

SHEET 8 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 68	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISIEZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTIONS AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

N

W. STACK DR.

S.60th ST.

DETAIL A 100 — 2.5" PVC SCH.40 FOR SERIES CIRCUIT

DETAIL B 100 — 3" PVC 2' BACK OF CURB

3"x24"x24" PULL BOX STA.139+10.0'; 41'LT — 112

3" PVC SCH.40 FOR SERIES CIRCUIT CAPPED IN PULL BOX STA.139+45.0'; 62'RT

13"x24"x24" PULL BOX STA.139+48.0'; 62'LT — 112

13"x24"x24" PULL BOX STA.139+85.0'; 62'LT — 112

3" PVC SCH. 80 — 102

3" PVC — 101

3#4/1#8 LTP CIR.T43S-B INSTALL IN CONDUIT

CONCRETE BASE REMOVED BY CONTRACTOR

13"x24"x24" PULL BOX STA.139+24.0'; 6'LT — 112

#2900 LIGHT POLE REMOVED BY CITY

#2900 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.139+9'; 6'LT

13"x24"x24" PULL BOX STA.139+13.0'; 40'RT — 112

13"x24"x24" PULL BOX STA.139+50.0'; 61'RT — 112

13"x24"x24" PULL BOX STA.140+9.0'; 6'LT — 112

#2880 LIGHT POLE REMOVED BY CITY

#2880 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.140+16.0'; 6'LT

#2852 TYPE 5 BASE TRANSFORMER BASE 25' AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.141+56'; 0'RT

#2852 LIGHT POLE REMOVED BY CITY

BUS STOP

FLAG

138 +50 139 +50 140 +50 141 +50 142

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- Ⓑ Ⓡ - BLACK/RED TERMINATION SEQUENCE

POLE ADDRESS; ADDRESS LOCATION; TRAFFIC; CURB; PLACE ADDRESS 6'-0" ABOVE GRADE

SCALE, FEET 0 30

SHEET 9 OF 13

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 69	E

FILE NAME : W:\bes\pavings\2018work\s60th St – Morgan to KK Parkway (2415-00-01)\inset.dgn PLOT DATE : 20-JUN-2018 09:53 PLOT BY : lhickm PLOT NAME : PLOT SCALE : 30.000000:1.000000

WISDOT/CADDS SHEET 42

2

2

N

#2842
TYPE 5 BASE
TRANSFORMER BASE
25'AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.142+98'; 0'RT

#2820
TYPE 5 BASE
TRANSFORMER BASE
25'AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.144+37'; 0'RT

#2782
TYPE 5 BASE
TRANSFORMER BASE
25'AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.145+76'; 7'LT

#2774
TYPE 5 BASE
TRANSFORMER BASE
21'AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.146+78'; 0'RT

W. MONTANA AVE.

S.60th ST.

3#4/1#8 LTP
CIR.T43S-B
INSTALL IN CONDUIT

CONCRETE
BASE
REMOVED BY
CONTRACTOR

#2842
LIGHT POLE
REMOVED
BY CITY

#2820
LIGHT POLE
REMOVED
BY CITY

#2782
LIGHT POLE
REMOVED
BY CITY

#2774
LIGHT POLE
REMOVED
BY CITY

DETAIL B
100
3" PVC

DETAIL B
100
3" PVC
SCH. 40

112
13"x24"x24"
PULL BOX
STA.146+9; 66'LT

112
13"x24"x24"
PULL BOX
STA.145+85'; 41'LT

112
13"x24"x24"
PULL BOX
STA.145+84; 7'LT

112
13"x24"x24"
PULL BOX
STA.145+45; 66'LT

112
13"x24"x24"
PULL BOX
STA.146+55'; 6'RT

102
3" PVC
SCH. 80

101
3" PVC

BUS STOP

+50 43 +50 144 +50 145 +50 146 +50 147

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

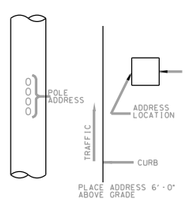
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ALL PURPOSE ANTISIEZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTIONS AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- (B) (R) - BLACK/RED TERMINATION SEQUENCE



SCALE, FEET 0 30

SHEET 10 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 70	E

2

N

#2750
TYPE 5 BASE
TRANSFORMER BASE
25' AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.148+19'; 0'RT

#2738
TYPE 5 BASE
TRANSFORMER BASE
25' AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.149+65'; 0'RT

#2718
TYPE 5 BASE
TRANSFORMER BASE
25' AL POLE
2-2#12UF W/GRD.RISERS
2-8 FT. ARMS
2-2LED
STA.151+3'; 0'RT

S.60th ST.

#2750
LIGHT POLE
REMOVED
BY CITY

#2738
LIGHT POLE
REMOVED
BY CITY

#2718
LIGHT POLE
REMOVED
BY CITY

3#4/1#8 LTP
CIR.T43S-B
INSTALL IN CONDUIT

3#4/1#8 LTP
CIR.T43S-B
INSTALL IN CONDUIT

3#4/1#8 LTP
CIR.T43S-B
INSTALL IN CONDUIT

3#4/1#8 LTP
CIR.T43S-B
INSTALL IN CONDUIT

+50 +48 +50 149 +50 150 151 +50

DETAIL B
100
3" PVC

CONCRETE
BASE
REMOVED BY
CONTRACTOR

DETAIL B
100
3" PVC

CONCRETE
BASE
REMOVED BY
CONTRACTOR

DETAIL B
100
3" PVC
SCH. 40

CONCRETE
BASE
REMOVED BY
CONTRACTOR

DETAIL B
100
3" PVC
SCH. 40

SAN CUC TEMES E G CATV MH POST

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

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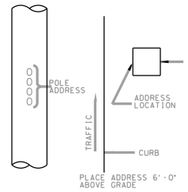
TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISIEZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTIONS AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- (B) (R) - BLACK/RED TERMINATION SEQUENCE



SCALE, FEET 0 30

SHEET 11 OF 13

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 71	E

LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- ØØØ - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- Ⓑ Ⓡ - BLACK/RED TERMINATION SEQUENCE

POLE ADDRESS · ADDRESS LOCATION · TRAFFIC · CURB · PLACE ADDRESS 6'-0" ABOVE GRADE

N

3#6/1#8 LTP CIR.T43S-B INSTALL IN CONDUIT
3" PVC #6000 TO PULL BOX
#6000 (S40-1942) TYPE 10 BASE TYPE 10 POLE 2#12UF W/GRD.RISERS 6 FT. ARM 2LED
112 17"x30"x24" PULL BOX (TRAFFIC)
101 2-3" PVC (TRAFFIC)
102 2-3" PVC SCH. 80
20' ARM
CONCRETE BASE REMOVED BY CONTRACTOR
3#4/1#8 LTP CIR.T43S-B INSTALL IN CONDUIT
#2700 LIGHT POLE REMOVED BY CITY
#2700 (S40-1941) TYPE 10 BASE TYPE 10 POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED
#2654 LIGHT POLE REMOVED BY CITY
#2650 LIGHT POLE REMOVED BY CITY
#2650 TYPE 5 BASE TRANSFORMER BASE 25'AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.154+77'; 4'LT
#2628 LIGHT POLE REMOVED BY CITY
#2628 TYPE 5 BASE TRANSFORMER BASE 25'AL POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED STA.156+11.5'; 0'RT
DETAIL B 100 3" PVC SCH. 40
17"x30"x24" PULL BOX STA.1+71.3'; 8.5'RT (TRAFFIC)
#5941 (S40-1940) TYPE 10 BASE TYPE 10 POLE 2#12UF W/GRD.RISERS 6 FT. ARM 2LED
109 17"x30"x24" PULL BOX (TRAFFIC)
#2654 (SP40-1943) TYPE 10 BASE TYPE 10 POLE 2-2#12UF W/GRD.RISERS 2-8 FT. ARMS 2-2LED
3#6/1#8 LTP CIR.T43S-B INSTALL IN CONDUIT
4" · 6" · 4"
57C · 59 · 59C
152 · 153 · 154 · 155 · 156 · +50 · 2+00
S.60th ST.
W. CLEVELAND AVE.
BUS STOP · SAN · TE&ES · G · E · T · FO · CATV · MH · WV · CURB

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

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ALL PURPOSE ANTISIEZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTIONS AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.

SCALE, FEET 0 30

SHEET 12 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 72	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

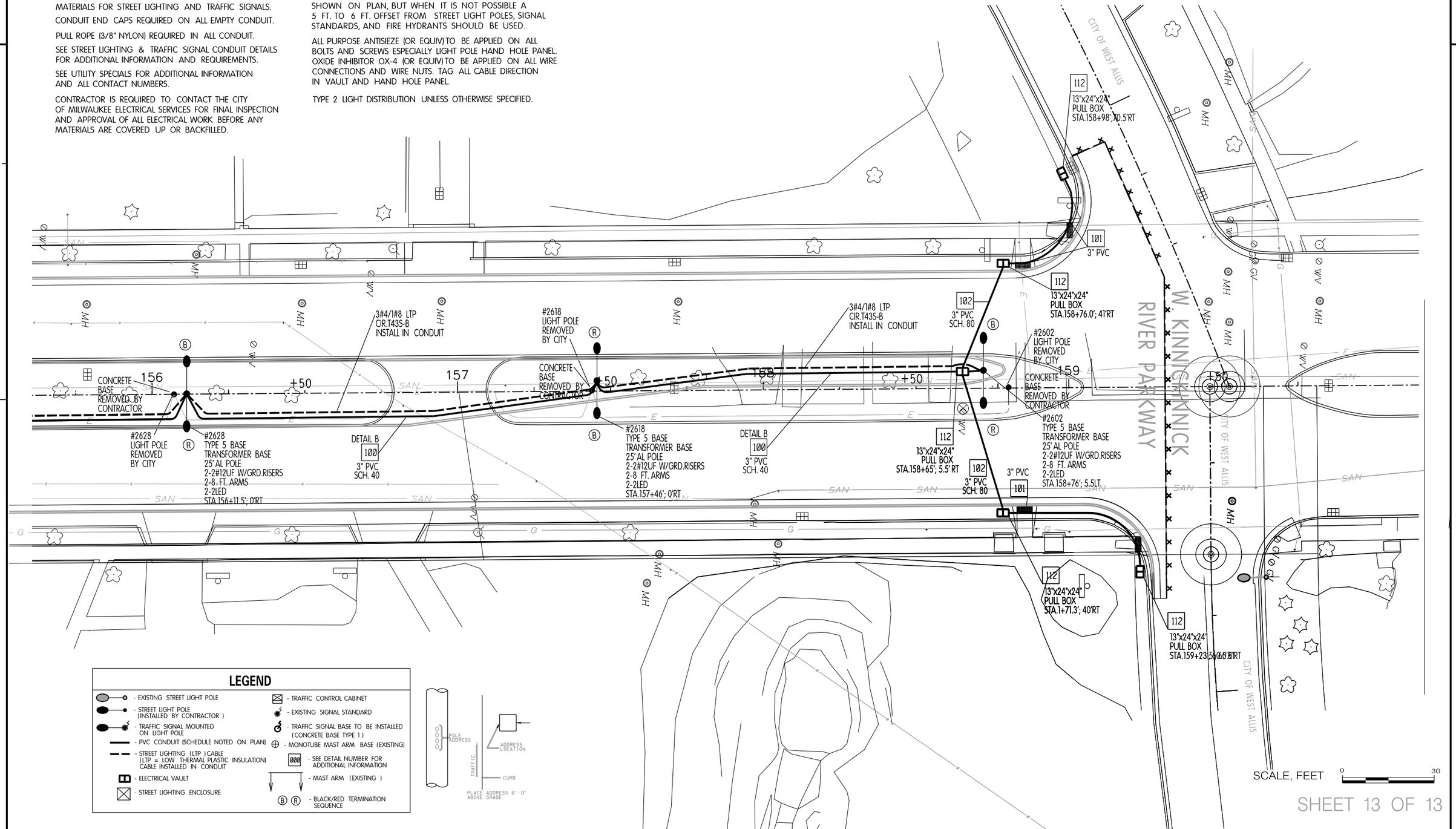
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TYPE 2 LIGHT DISTRIBUTION UNLESS OTHERWISE SPECIFIED.



LEGEND

- EXISTING STREET LIGHT POLE
- STREET LIGHT POLE (INSTALLED BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- STREET LIGHTING ENCLOSURE
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE TO BE INSTALLED (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE (EXISTING)
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM (EXISTING)
- (B) (R) - BLACK/RED TERMINATION SEQUENCE

SCALE, FEET 0 30

SHEET 13 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 73	E

FILE NAME : W:\bes\pavings\2018work\s60th St – Morgan to KK Parkway (2415–00–01)\inset.dgn PLOT DATE : 20–JUN–2018 10:01 PLOT BY : lhickm PLOT NAME : PLOT SCALE : 30.000000:1.000000

WISDOT/CADDS SHEET 42

2

TRAFFIC & STREET LIGHTING GENERAL NOTES:

PRIOR TO CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE DETERMINED IN THE FIELD BY CONTACTING "DIGGERS HOTLINE."

STREET LIGHTING & TRAFFIC SIGNALS SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 EXCEPT:

THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCLUDING REPAIRS, REPLACEMENT OR RELOCATION ETC. OF STREET LIGHTING OR TRAFFIC SIGNAL FACILITIES IF THE CONTRACTOR DOES ANY DEVIATION FROM THE STREET LIGHTING OR TRAFFIC SIGNAL DESIGN WITHOUT THE STREET LIGHTING ENGINEERS SIGNED PERMISSION.

1 DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

2 LOCATIONS OF THE PVC CONDUITS WHERE THEY ARE REQUIRED ARE IDENTIFIED IN THE PRINTS. HOWEVER, INSTALLATION MAY REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. ANY RELOCATIONS MUST BE APPROVED BY THE ENGINEER. FIELD MARK EACH CONDUIT LOCATION BY STAMPING AND PAINTING WITH RED PAINT ON TOP AND BACKSIDE OF CURB.

3 TYPICAL CONDUIT INSTALLED UP TO DIRECT BURIED STREET LIGHT POLES IS AS FOLLOWS 3-INCH OR 2.5-INCH (AS NOTED) SCHEDULE 40 RIGID PVC TO STREET LIGHTING METAL HOUSING (PEDESTAL), THE 1.5-INCH SCHEDULE 40 RIGID PVC TO STREET LIGHT POLE CABLE SLOT, AND THE 2-INCH SCHEDULE 40 RIGID PVC TO SIGNAL STANDARD BASE AND RISER FOR TRAFFIC SIGNAL ON STREET LIGHT POLE.

4 DEPTH OF CONDUIT INSTALLED BELOW THE STREETS, HIGHWAYS, ROADS, AND ALLEYS SHALL BE 24-INCHES MINIMUM AND 36-INCHES MAXIMUM. (MEASURED FROM FINISHED FLANGE LINE)

5 CONDUIT INSTALLED BEHIND CURB, AND UNDER DRIVEWAYS SHALL BE INSTALLED AT A DISTANCE OF 6 INCHES AWAY FROM THE BACK OF CURB TO THE CENTER LINE OF CONDUIT, AND 18 INCHES DOWN MEASURED FROM THE TOP OF CURB OR FINISHED GRADE TO THE TOP OF CONDUIT.

6 WHEN THERE IS MORE THAN ONE CONDUIT TO BE INSTALLED, PLACE ALL CONDUITS IN THE SAME TRENCH.

7 ANY EXCEPTION TO THE MINIMUM OR MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

8 THE CONTRACTOR OR HIS SUBCONTRACTOR MUST MAKE SURE THE AREA BEHIND CURB AND/OR TRENCH SHALL BE FREE OF DEBRIS AND OVERPOUR AND SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

9 BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

10 ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS. (SEE NEC 352.28 2008 CODE)

11 PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED IMMEDIATELY AFTER INSTALLATION WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

12 ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

13 CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX OR JUNCTION BOX OR BASE TO BASE, ETC.).

14 PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUIT.

15 ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS UNLESS OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

16 WHEN ENDS OF CONDUIT DO NOT CONNECT TO A PULL BOX / VAULT AND WILL END UP UNDER CONCRETE WALK. THE CONTRACTOR IS REQUIRED TO LEAVE A 24" X 24" BOX FORM CENTERED OVER THE END OF CONDUIT AND FILL THE BOXFORM WITH CRUSHED GRAVEL. (PER WISDOT SPEC 209.2.1(1) GRANULAR BACKFILL)

17 ALL PIPE CROSSINGS AND PULL BOXES / VAULTS SHALL BE AT LEAST SIX (6) FEET AWAY FROM FIRE HYDRANTS, UNLESS NOTED OTHERWISE, OR APPROVED BY THE STREET LIGHTING ENGINEER.

18 ALL POLES AND TRAFFIC STANDARDS IN CONCRETE ARE REQUIRED TO HAVE A 30"X30" BOX SHAPED JOINT PLACED AROUND THEM USING AN EXPANSION JOINT FILLER. UNLESS NOTED OTHERWISE (SEE DETAIL 122)

19 TYPICAL RECTANGULAR PULL BOXES / VAULTS SHOULD BE INSTALLED AS SHOWN ON PLANS, BUT WHEN IT IS NOT POSSIBLE, A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS AND FIRE HYDRANTS SHOULD BE USED, OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

20 LIGHT POLES AND TRAFFIC STANDARDS INSTALLED BEHIND THE CURB MUST MEET A MINIMUM DISTANCE OF 24 INCHES FROM THE FACE OF CURB TO THE CURB SIDE FACE OF THE POLE OR TRAFFIC STANDARD.

21 COORDINATE NEW CONDUIT CONNECTIONS WITH EXISTING CONDUIT, DUCT PACKAGES, AND PULL BOXES/ VAULTS/ MANHOLES WITH CITY OF MILWAUKEE STREET LIGHTING. THE CITY REQUIRES THREE WORKING DAYS ADVANCED NOTICE. CONTACT ELECTRICAL SUPERVISOR
STREET LIGHTING - DENNIS MILLER (OFFICE) 414-286-5942 (CELL) 414-708-4251 OR DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-3687 (CELL) 414-708-5148 OR DISPATCHER @ 414-286-3687

22 IMMEDIATELY AFTER THE CONTRACTOR HAS COMPLETED ALL THE ELECTRICAL PULL BOXES / VAULTS, CONDUIT AND CONDUIT CONNECTIONS, AND JUST BEFORE ELECTRICAL WORK IS COVERED UP WITH CONRETE, SOIL, OR ETC. THE CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SHOP SUPERVISORS FOR FINAL INSPECTION AND APPROVAL OF ALL WORK.
STREET LIGHTING - DENNIS MILLER (OFFICE) 414-286-5942 (CELL) 414-708-4251
STREET LIGHTING - NEAL KARWEIK (OFFICE) 414-286-5943 (CELL) 414-708-4245
STREET LIGHTING - THOMAS HUGHES (OFFICE) 414-286-3457 (CELL) 414-708-3175
STREET LIGHTING - DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-5941 (CELL) 414-708-5148
TRAFFIC SIGNALS - DISPATCHER @ 414-286-3687

23 CONDUIT WILL ONLY BE INSTALLED AFTER THE CURB IS POURED, UNLESS APPROVED BY BOTH THE ENGINEER & STREET LIGHTING SHOP SUPERVISOR.

24 CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

25 CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

26 ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY THE LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

27 Provide three sets as-built drawings detailing the final placement of conduit, cabling, equipment, and geometric modifications under the contract. Provide PDF copy conforming to CMM 1-65.14, or record all changes in Red ink Only on the As-Let (Design) paper drawings. The City will reject as-builts with incomplete or incorrect content or not conforming to CMM standards.

28 RETURN ALL REMOVED STREET LIGHTING FIXTURES TO STREET LIGHTING FIELD OFFICE
(ATTN: MIKE GUERRERO)
1540 W. CANAL ST. MILWAUKEE WI 53233

UTILITY LINE CODE

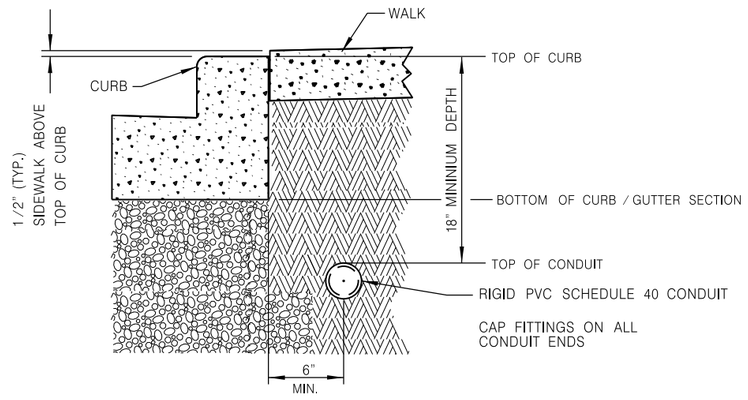
- SAN — SANITARY SEWER
- STO — STORM SEWER
- W — WATER
- G — GAS
- G — PROPOSED GAS
- E — ELECTRIC
- TE&ES — TRAFFIC & STREET LIGHTING
- OLD CITY UNDERGROUND CONDUIT
- CUC — PROPOSED CITY UNDERGROUND CONDUIT
- T — TELEPHONE
- TV — CABLE

SHEET 1 OF 6

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING & TRAFFIC SIGNAL DETAILS	SHEET OF 74	E

2

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



100 DETAIL "A"

NOT TO SCALE

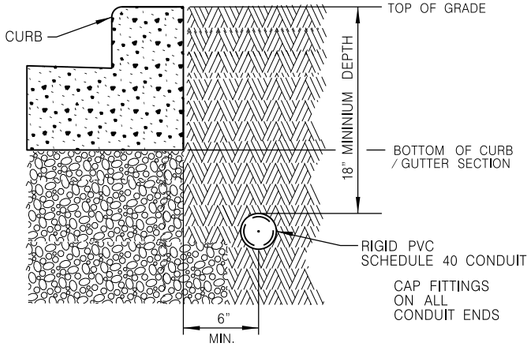
TYPICAL CONDUIT INSTALLATION
BEHIND CURB

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

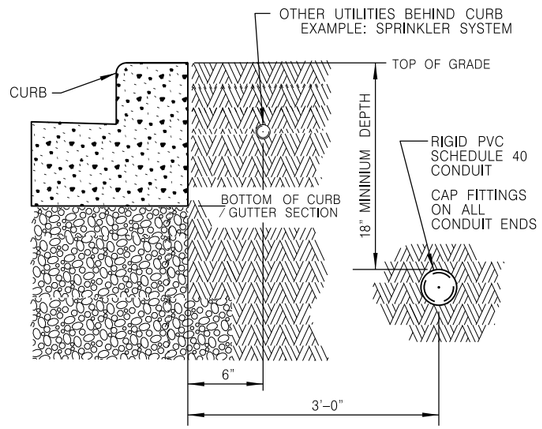
NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.

DETAIL "B"

CONDUIT TO BE PLACED 6" ON CENTER DIRECTLY BEHIND CURB,
UNLESS NOTED OR APPROVED BY ENGINEER.



DETAIL "C"

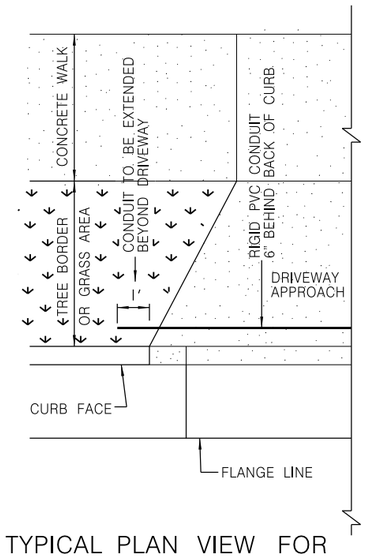


100 DETAIL "B" & "C"

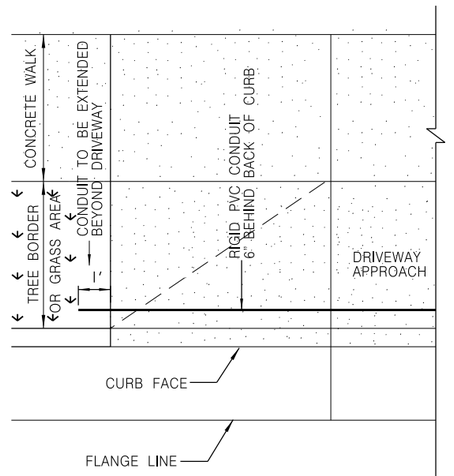
NOT TO SCALE

TYPICAL CONDUIT INSTALLATION
BEHIND CURB

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

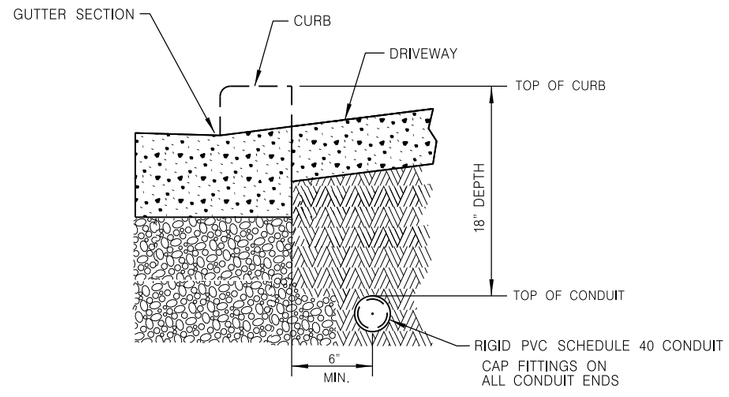


TYPICAL PLAN VIEW FOR
FLARED DRIVEWAY



TYPICAL PLAN VIEW FOR
DEPRESSED DRIVEWAY

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



101 DETAIL

NOT TO SCALE

TYPICAL CONDUIT INSTALLATION
UNDER DRIVEWAYS OR PEDESTRIAN RAMPS

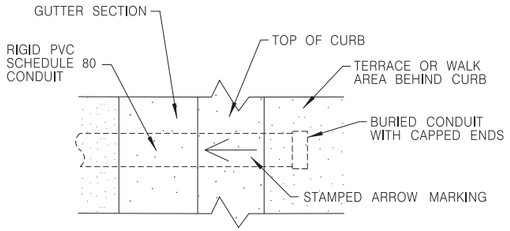
ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

SHEET 2 OF 6

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET OF 75	E

FILE NAME : W:\bes\pavings\2018work\s60th St – Morgan to KK Parkway (2415–00–01)\90%pdf\Conduit Details1.dgn PLOT DATE : 21–JUN–2018 14:50 PLOT BY : lhickm PLOT NAME : PLOT SCALE : 30.000000:1.000000

WISDOT/CADDS SHEET 42

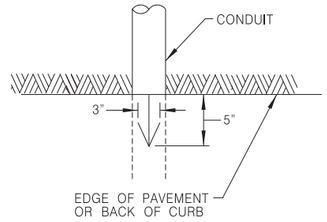


TOP VIEW OF CURB STAMPING

NOT TO SCALE

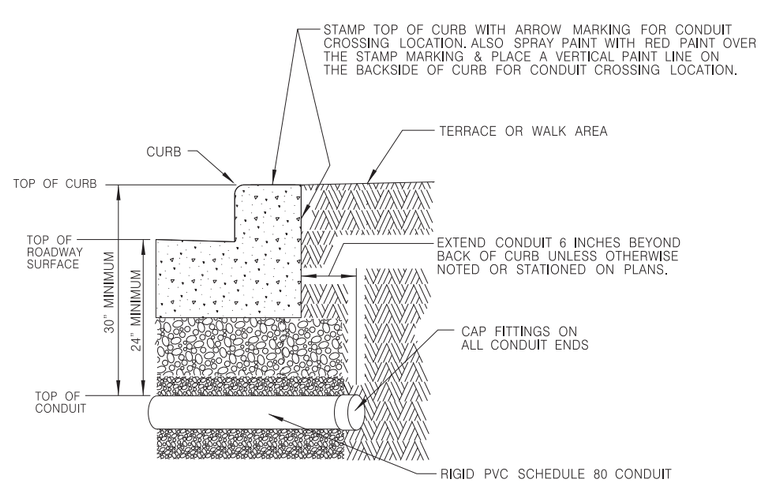
NOTE:

ARROW MARK SHALL BE INSCRIBED IN PAVEMENT SURFACE 1/4-INCH TO 3/8-INCH DEEP AT EACH LOCATION WHERE CONDUITS ARE PLACED UNDER THE PAVEMENT.



ARROW MARK

NOT TO SCALE



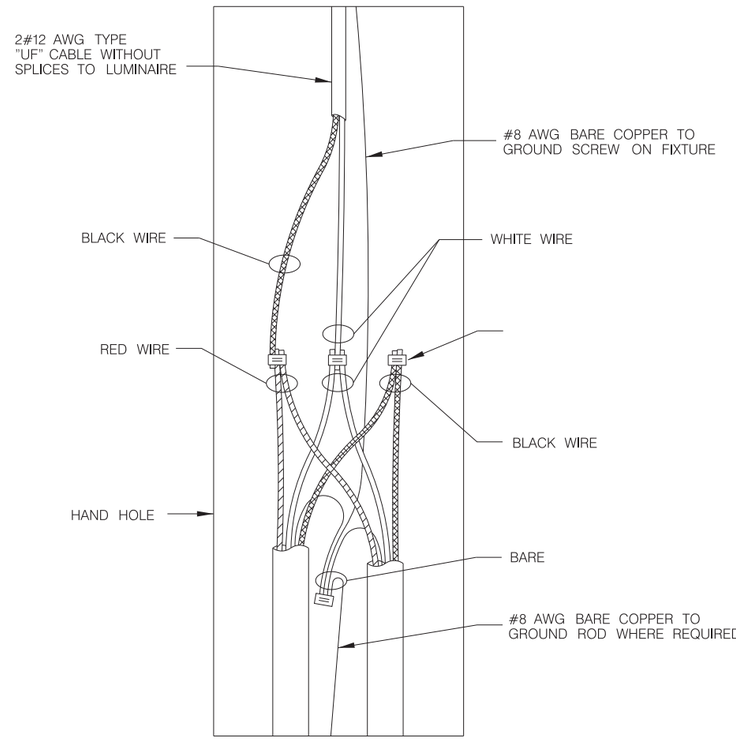
102

DETAIL VERSION #1

TYPICAL CONDUIT INSTALLATION FOR CROSSING ROADWAYS

NOT TO SCALE

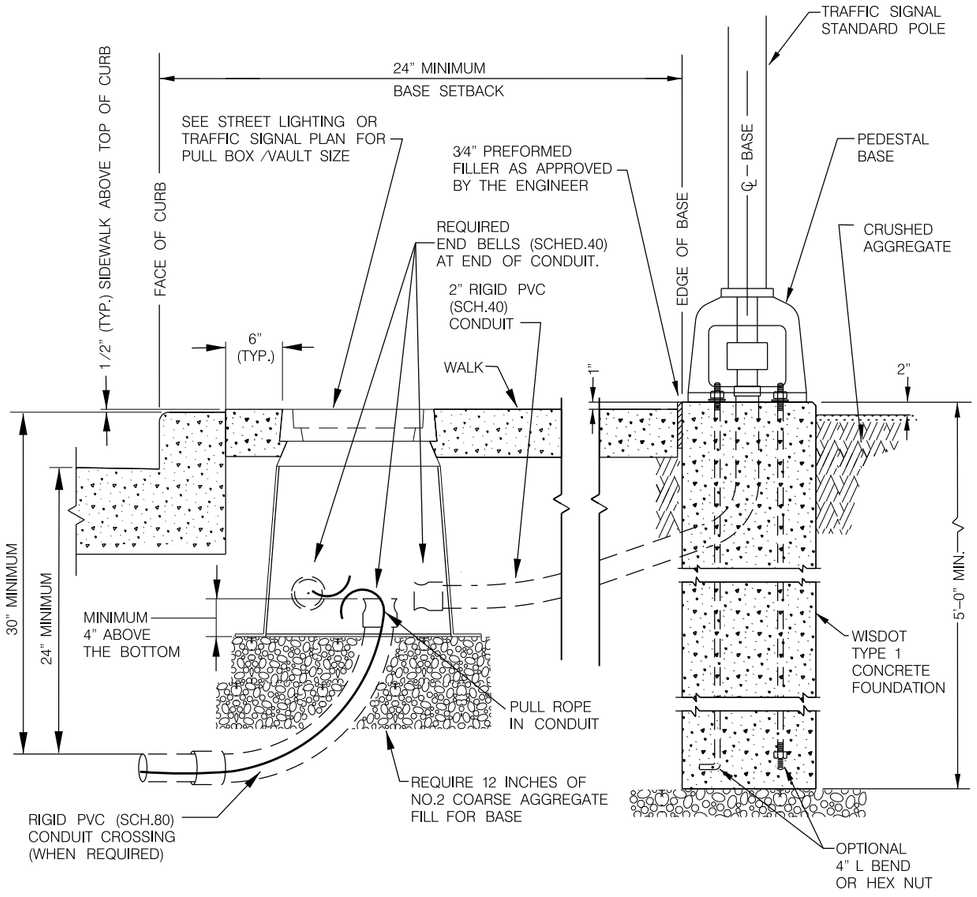
ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.



DETAIL

TYPICAL WIRING CONNECTIONS IN TRANSFORMER BASE OF POLE

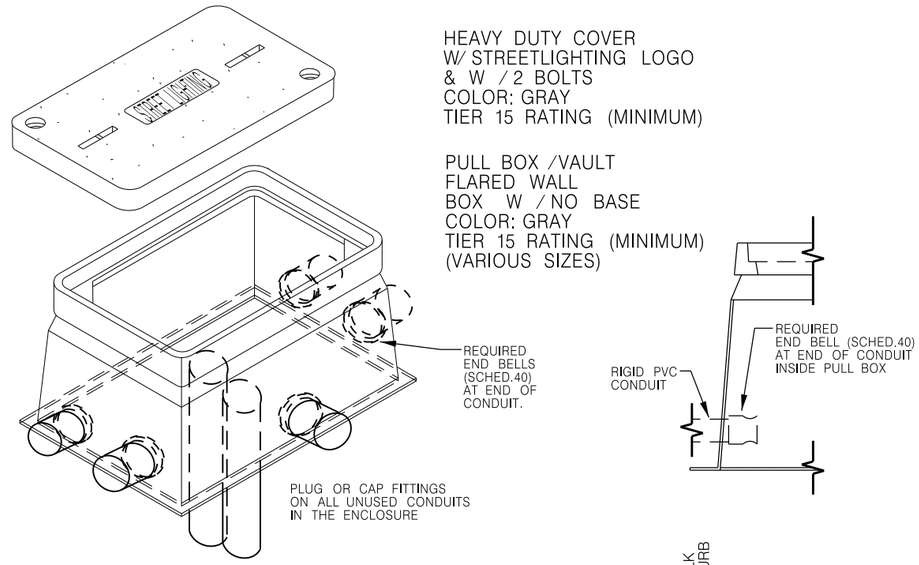
SHEET 3 OF 6

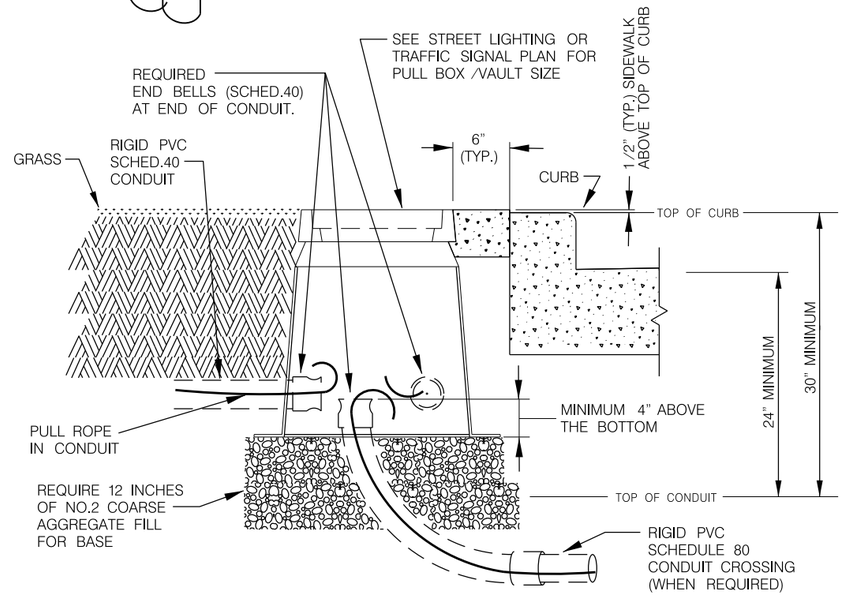


109 DETAIL

TYPICAL CONDUIT INSTALLATION FROM PULL BOX /VAULT TO SIGNAL STANDARD AND TYPICAL BASE INSTALLATION

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

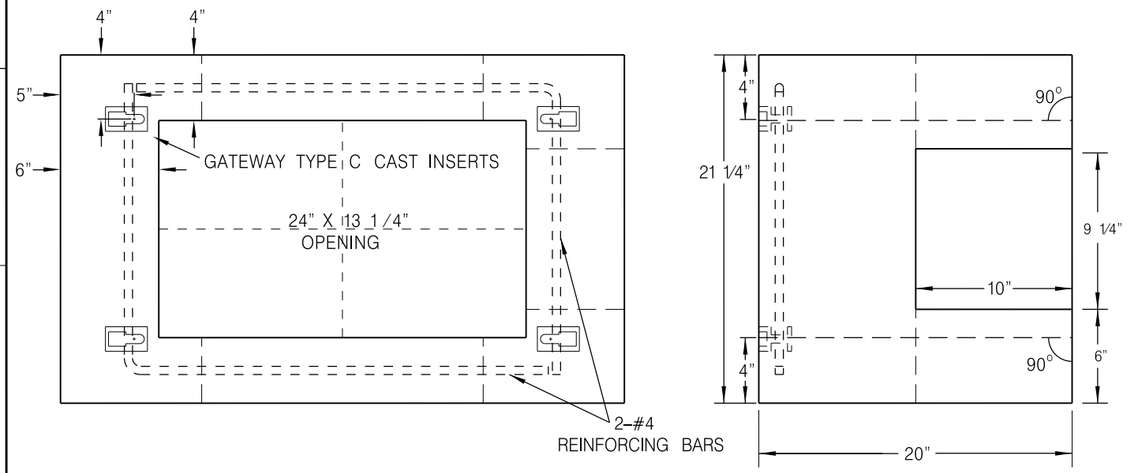


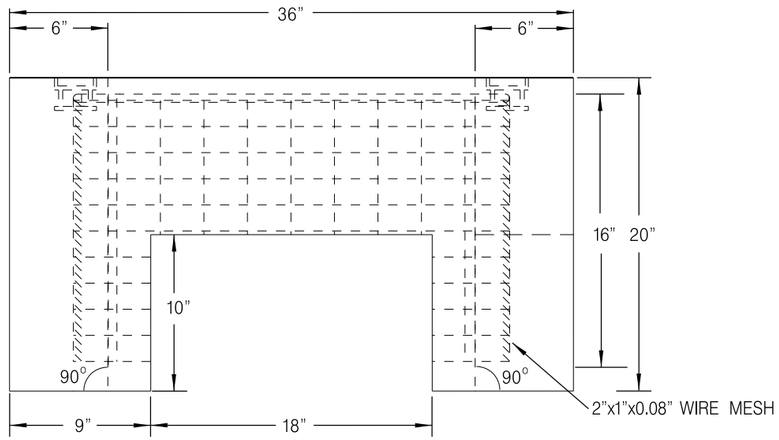


112 DETAIL

TYPICAL PULL BOX /VAULT INSTALLATION IN EITHER PAVEMENT OR GRASS AREAS

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.





NOT TO SCALE

6 BAG MIX #1 STONE

COMM. CODE XXXX-XXX				
PRE-CAST CONCRETE FOUNDATION				
TRAFFIC SIGNAL CABINETS P1 AND P2				
TRAFFIC ENGINEERING AND ELECTRICAL SERVICES D.P.W. CITY OF MILWAUKEE				
TRAFFIC CONTROL MATERIAL				
DATE 8-30-16	SCALE N.T.S.	DRAWN JAB/JO	CHECKED SCB	APPROVED JCB
SUPERSEDES	REVISED DATE	DRG.		
SUPERSEDED BY	NEW DRG.	C-16-500-T		

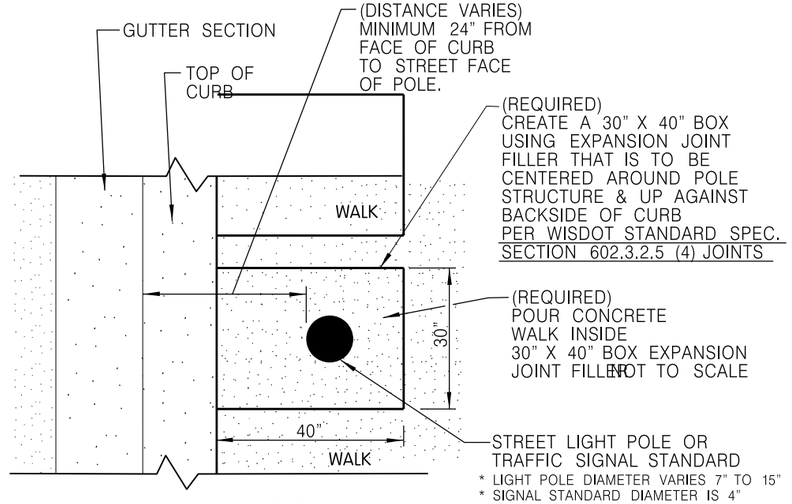
125 DETAIL

TYPICAL TRAFFIC CONTROL CABINET CONCRETE FOUNDATION

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM TRAFFIC SIGNAL FORCES.
CONTACT DISPATCHER AT (414) 286-3687 FOR SHOP SUPERVISOR.

THE CONTRACTOR IS REQUIRED TO INSTALL EXPANSION JOINT FILLER INTO THE CONCRETE WALK, WHICH SHALL BE 1/2" WIDE MINIMUM TO BE USED TO CREATE A SEPARATION BETWEEN A SMALL CONCRETE AREA AROUND THE TRAFFIC & STREET LIGHTING FACILITIES AND THE REST OF THE CONCRETE WALK.

THE BOX SIZE OF THE AREA CREATED USING THE EXPANSION JOINT FILLER IS STANDARD AROUND LIGHT POLES AND TRAFFIC SIGNALS, BUT WILL VARY WHEN PLACED AROUND TRAFFIC & LIGHTING CONTROL CABINETS.



NOT TO SCALE

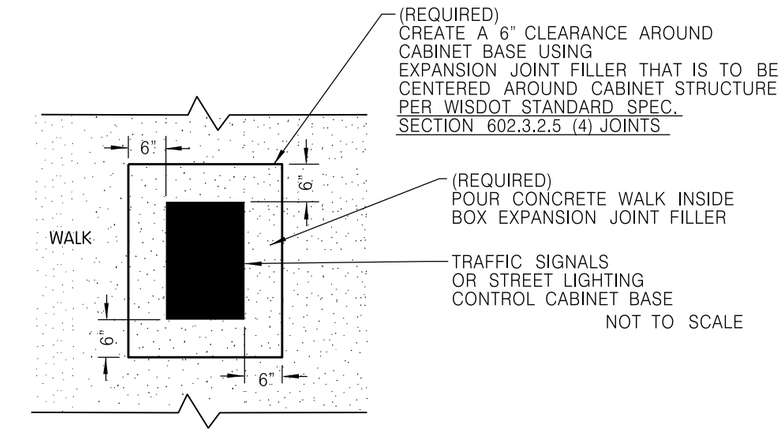
122 DETAIL VERSION #1

TYPICAL 30" X 40" BOX EXPANSION JOINT FILLER AROUND STREET LIGHTING AND TRAFFIC SIGNAL FACILITIES

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

THE CONTRACTOR IS REQUIRED TO INSTALL EXPANSION JOINT FILLER INTO THE CONCRETE WALK, WHICH SHALL BE 1/2" WIDE MINIMUM TO BE USED TO CREATE A SEPARATION BETWEEN A SMALL CONCRETE AREA AROUND THE TRAFFIC & STREET LIGHTING FACILITIES AND THE REST OF THE CONCRETE WALK.

THE BOX SIZE OF THE AREA CREATED USING THE EXPANSION JOINT FILLER IS STANDARD AROUND LIGHT POLES AND TRAFFIC SIGNALS, BUT WILL VARY WHEN PLACED AROUND TRAFFIC & LIGHTING CONTROL CABINETS.



NOT TO SCALE

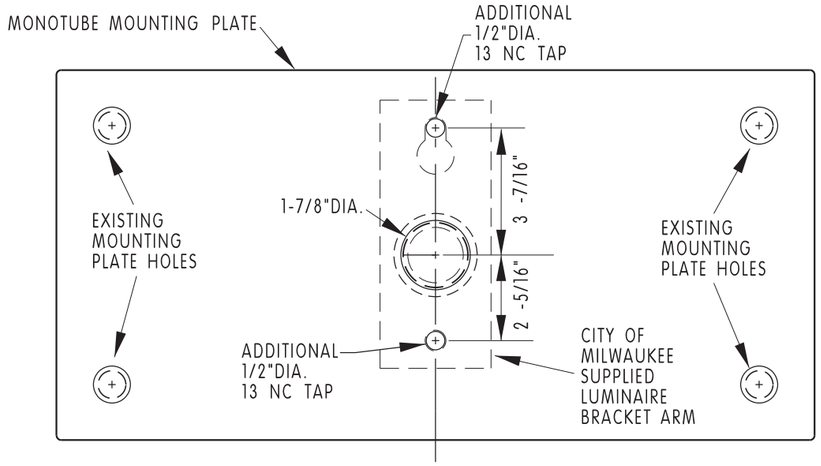
122 DETAIL VERSION #2

TYPICAL BOX EXPANSION JOINT FILLER AROUND TRAFFIC SIGNAL OR STREET LIGHTING CONTROL CABINET

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

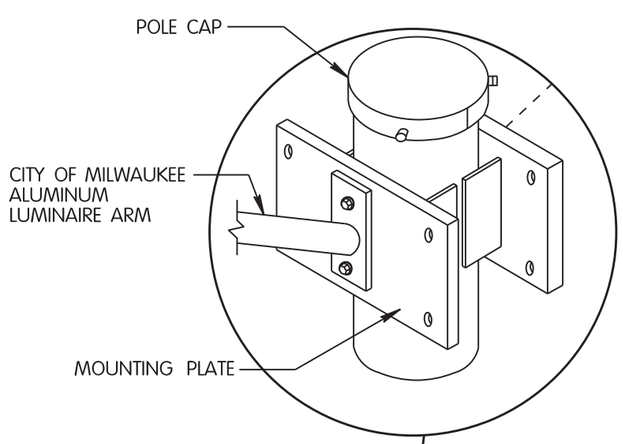
SHEET 5 OF 6

PROJECT NO: 2415-00-71	HWY: S. 60th ST.	COUNTY: MILWAUKEE	STREET LIGHTING & TRAFFIC SIGNAL DETAILS	SHEET 78	E

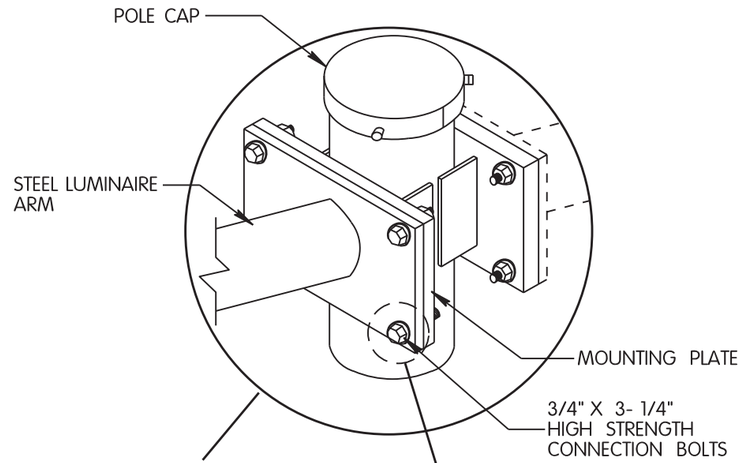


ADDITIONAL MOUNTING HOLES IN LUMINAIRE MOUNTING PLATE

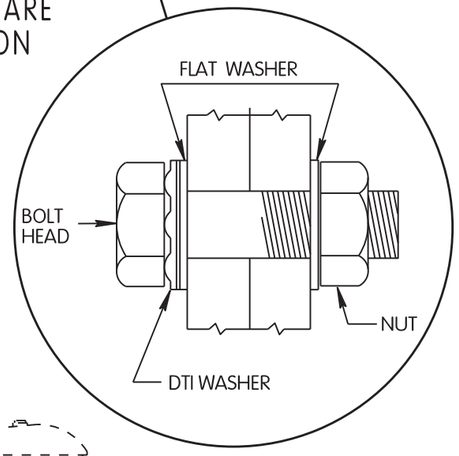
NOT TO SCALE



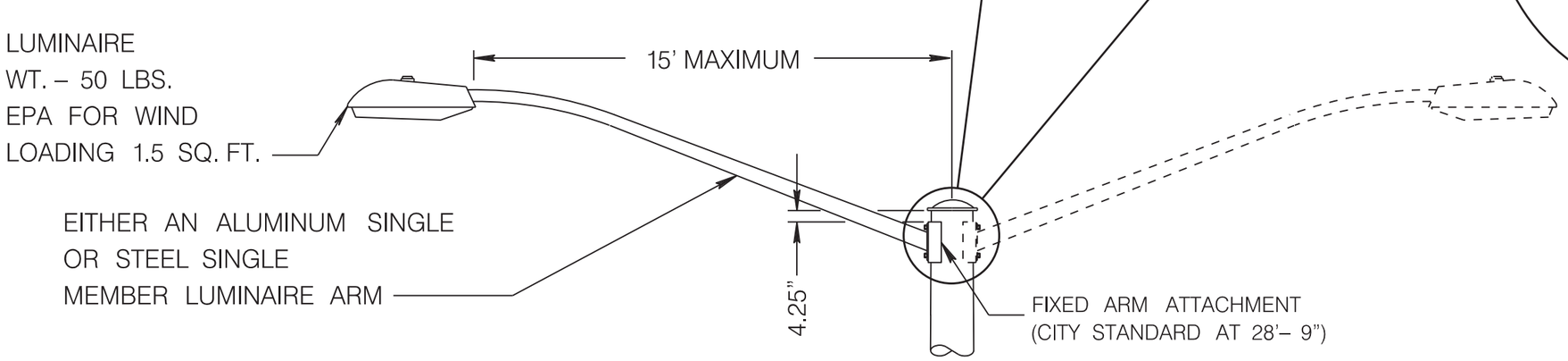
ALUMINUM LUMINIARE ARM OPTION



STEEL LUMINIARE ARM OPTION



RECOMMENDED BOLT ASSEMBLY DETAIL



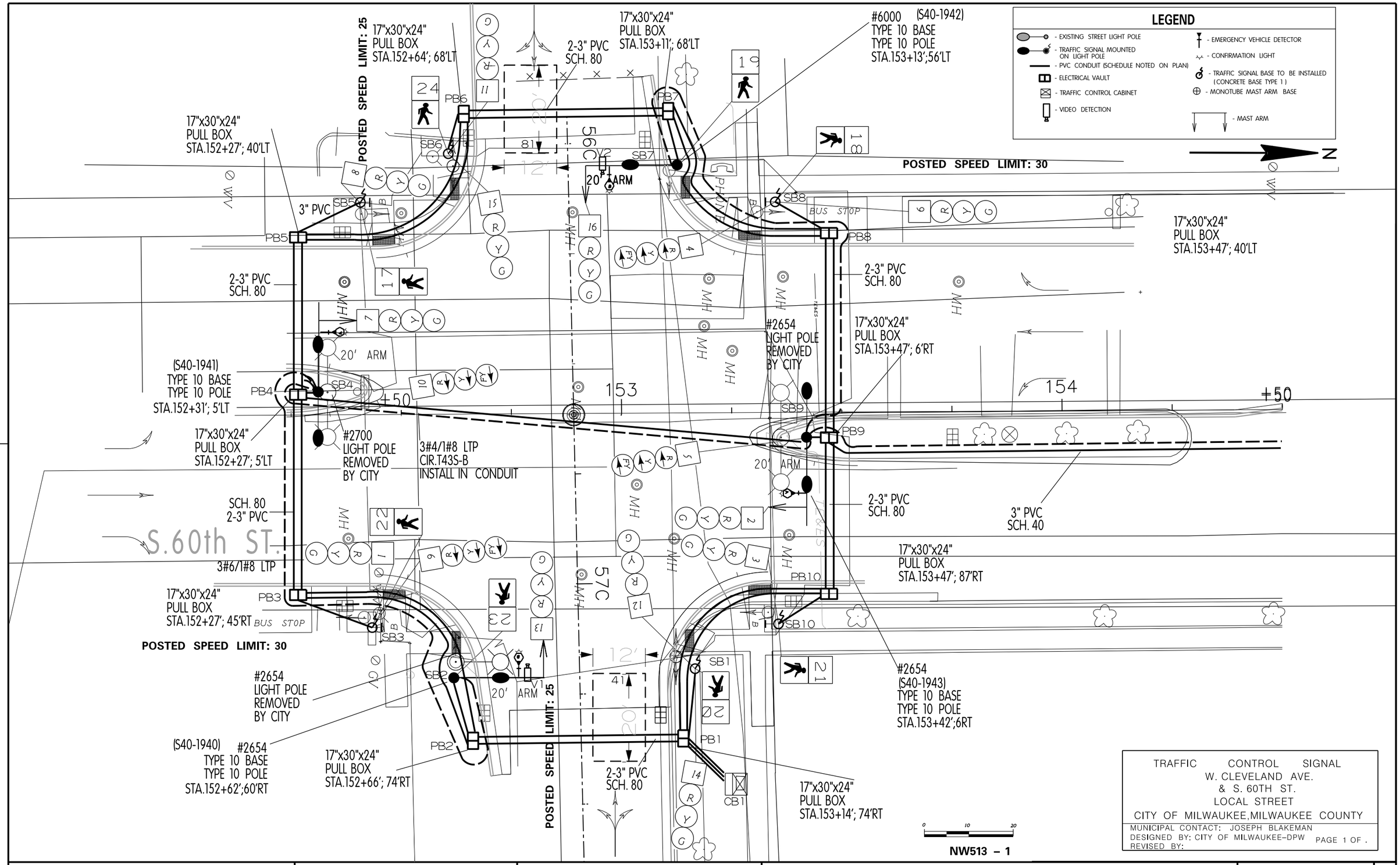
LUMINAIRE MOUNTING PLATE LOCATION LOWERED FROM ORIGINAL LOCATION & ADDITIONAL MOUNTING HOLES IN LUMINAIRE MOUNTING PLATE FOR POLES: TYPE 10

NOT TO SCALE

SHEET 6 OF 6

PROJECT NO: 2415-00-71	HWY: S. 60th St.	COUNTY: MILWAUKEE	STREET LIGHTING & TRAFFIC SIGNAL DETAILS	SHEET 79	E

FILE NAME : V:\beslib\pavings\TypicalDetailInstallations\140– Additional Mounting Holes In Lum Mounting Plate.dgn PLOT DATE : 09–MAR–2018 09:15 PLOT BY : dkozel PLOT NAME : PLOT SCALE : 4.240510:1.000000 WISDOT/CADDS SHEET 42



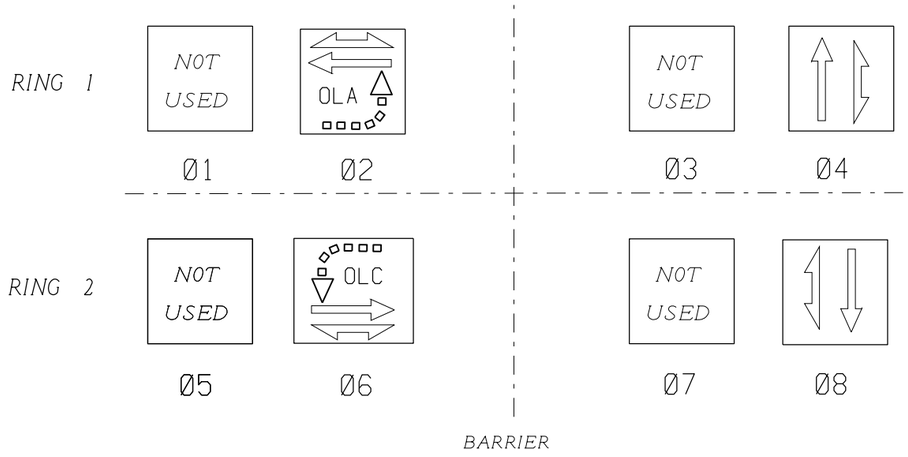
TRAFFIC CONTROL SIGNAL
W. CLEVELAND AVE.
& S. 60TH ST.
LOCAL STREET
CITY OF MILWAUKEE, MILWAUKEE COUNTY
MUNICIPAL CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: CITY OF MILWAUKEE–DPW
REVISED BY:
PAGE 1 OF .

PROJECT NO: 2415–00–71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 80	E

FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects–LFA\Preliminary Engineering\2415–00–71 60th Morgan to KK Pkwy\2415–00–71.dgn
PLOT DATE : 13–JUL–2018 07:31
PLOT BY : kpfeif
PLOT NAME :
PLOT SCALE : 20.000000:1.000000
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
OLA	4,5	R
Ø2	6,7,8	Y
Ø3		
Ø4	14,15,16	R
OLC	9,10	R
Ø6	1,2,3	Y
Ø7		
Ø8	11,12,13	R
Ø2P	17,18	
Ø4P	19,20	
Ø6P	21,22	
Ø8P	23,24	

SEQUENCE OF OPERATION



TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	CHANNEL A	CHANNEL B
MOVEMENT	⇐ ⇒	↓ ↑
PHASE	2-6	4-8

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
FIBER OPTIC	
RADIO	
LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM No:	SS- .

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W ◇ O	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN.	
3				
4		8		
5				
6	X	2	MIN.	
7				
8		4		

OVERLAPS

O.L. "A" = NB FYA
O.L. "B" =
O.L. "C" = SB FYA
O.L. "D" =

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	
IN SEPARATE LIGHTING CABINET	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR	41		81					
CALLED PHASE	4		8					
CALL OPTION	X		X					
DELAY TIME	X		X					
EXTENTION OPTION	X		X					
EXTEND TIME	X		X					
USE ADDED INITIAL								
CROSS SWITCH PHASE								

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. SEE CHART 1 AT LEFT.

TRAFFIC CONTROL SIGNAL
W. CLEVELAND AV. & S 60TH ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO.

CONTROLLER TYPE: ECONOLITE

DATE PAGE NO. OF

PROJECT NO: 2415-00-71 | HWY: LOCAL | COUNTY: MILWAUKEE | SEQUENCE OF OPERATIONS | SHEET 81 | E

PROJECT ID:	2415-00-71
INTERSECTION:	W. CLEVELAND AV. & S. 60TH ST.

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

DATE: 6/7/2018

CB__TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
					RED	YELLOW	GREEN	<RED	<YELLOW>	<FLASH YELLOW>	D/WALK	WALK		
SB1		12	12	8	RED	ORG	GRN							
			14	4	RED/BLK	ORG/BLK	GRN/BLK							
			20	4							BLK	BLU		
SB2		12	13	8	RED	ORG	GRN							
			23	8							BLK	BLU		
SB3		15	1	6	RED	ORG	GRN							
			9	OLC				RED/BLK	ORG/BLK	BLK/WHT				
			22	6							BLK	BLU		
			PUSHBUTTON	8									WHT/BLK	
SB4		15	7	2	RED	ORG	GRN							
			10	OLC				RED/BLK	ORG/BLK	BLK/WHT				
SB5		12	8	2	RED	ORG	GRN							
			17	2							BLK	BLU		
			PUSHBUTTON	8									WHT/BLK	
SB6		12	11	8	RED	ORG	GRN							
			15	4	RED/BLK	ORG/BLK	GRN/BLK							
			24	8							BLK	BLU		
SB7		12	16	4	RED	ORG	GRN							
			19	4							BLK	BLU		
SB8		15	4	OLA				RED/BLK	ORG/BLK	BLK/WHT				
			6	2	RED	ORG	GRN							
			18	2							BLK	BLU		
			PUSHBUTTON	4									WHT/BLK	
SB9		15	2	6	RED	ORG	GRN							
			5	OLA				RED/BLK	ORG/BLK	BLK/WHT				
SB10		12	3	6	RED	ORG	GRN							
			21	6							BLK	BLU		
			PUSHBUTTON	4									WHT/BLK	

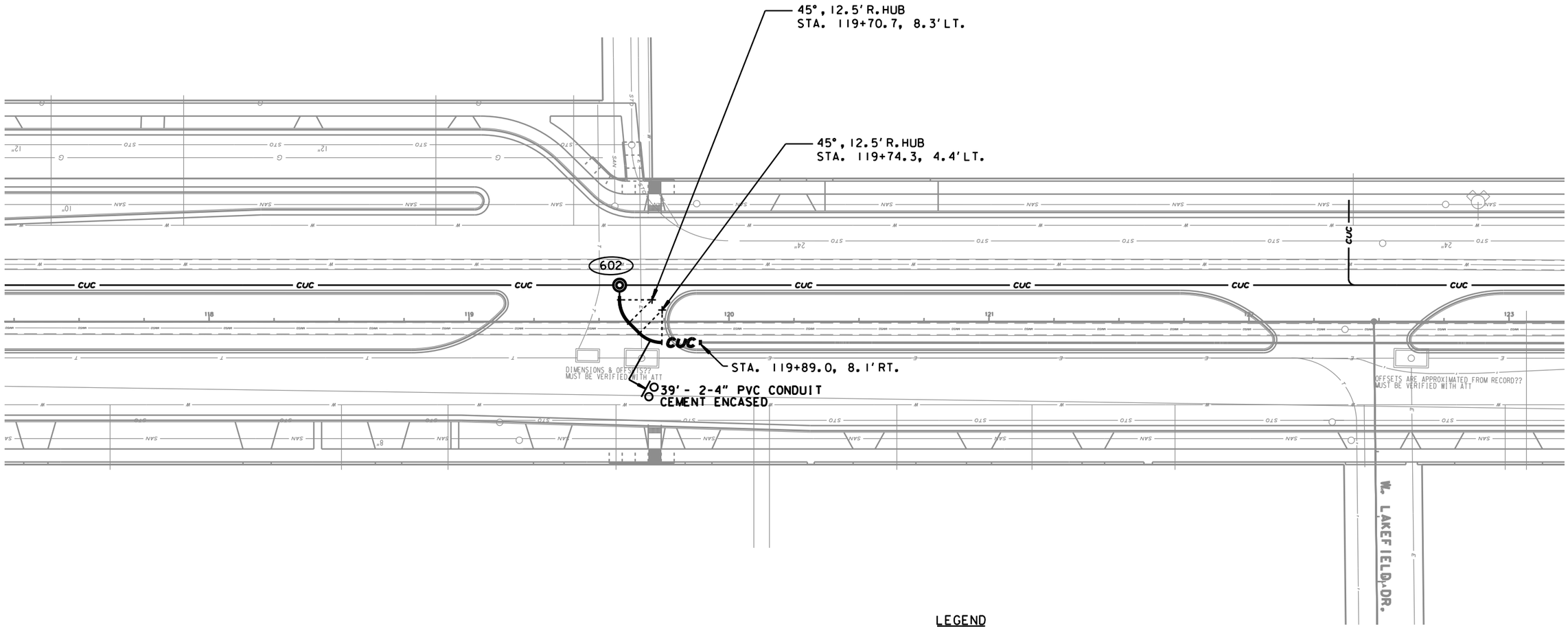
EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	CB1

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB2
SB2	HEAD 'B'
CB1	SB4
SB4	HEAD 'A'
CB1	SB7
SB7	HEAD 'B'
CB1	SB9
SB9	HEAD 'A'

NOTES:
1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED
3. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.
4. "OTHER" COLUMN MAY INCLUDE SHADOW BOX (BLANK OUT) SIGN.

SOUTH 60TH STREET

N



NOTES:

1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
2) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
3) DIMENSIONS SHOWN ARE TO CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
4) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED TES MANHOLE
◻	EXISTING TES MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

SHEET 1 OF 3

STATE PROJECT NUMBER 2415-00-71 - -	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET	SHEET NO: 83	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\S 60TH ST_MORGAN-KINNICKINNIC\DGN\STA 117-123.DGN

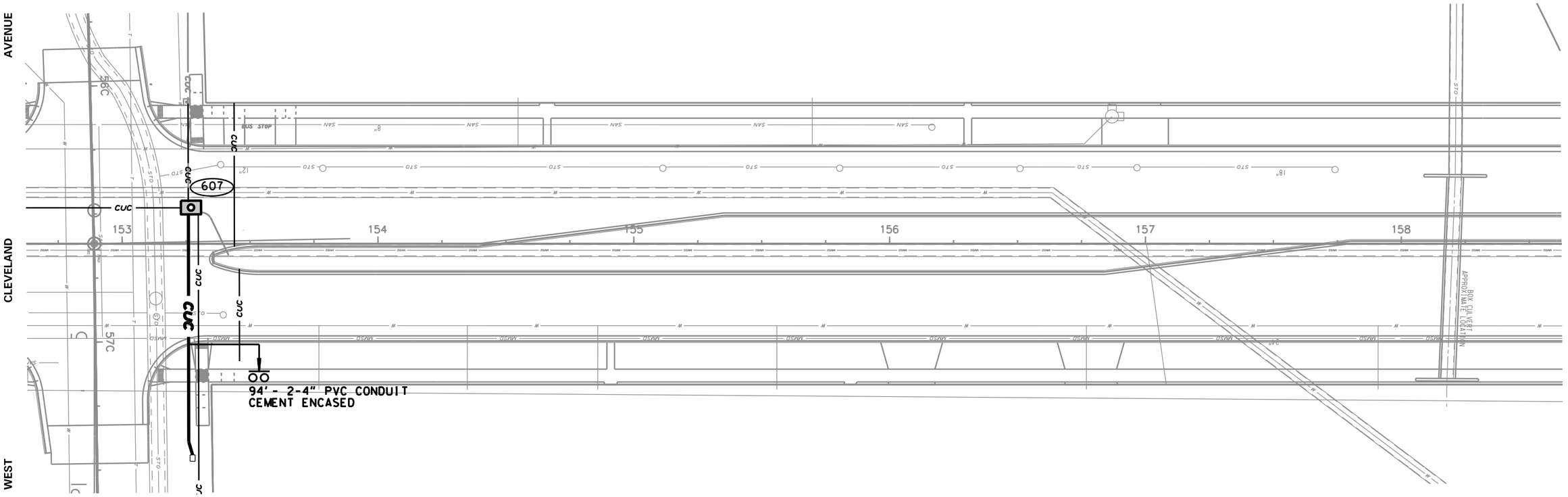
2

2

N

SOUTH 60TH STREET

AVENUE



CLEVELAND

WEST

NOTES:

1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
2) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
3) DIMENSIONS SHOWN ARE TO CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
4) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.

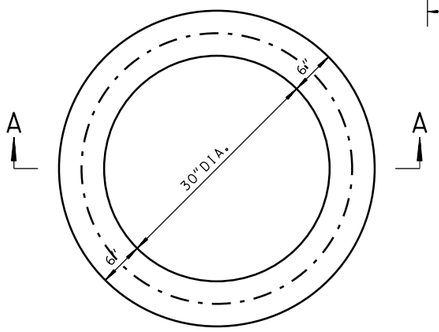
LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED TES MANHOLE
◻	EXISTING TES MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	ABANDONED CONDUIT

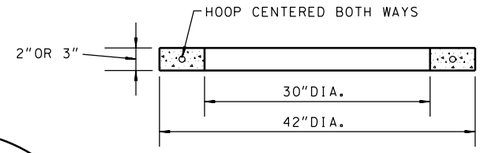
SHEET 2 OF 3

STATE PROJECT NUMBER 2415-00-71 - -	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET	SHEET NO: 84	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\S 60TH ST_MORGAN-KINNICKINNIC\DGN\STA 153-159.DGN



PLAN



SECTION A-A

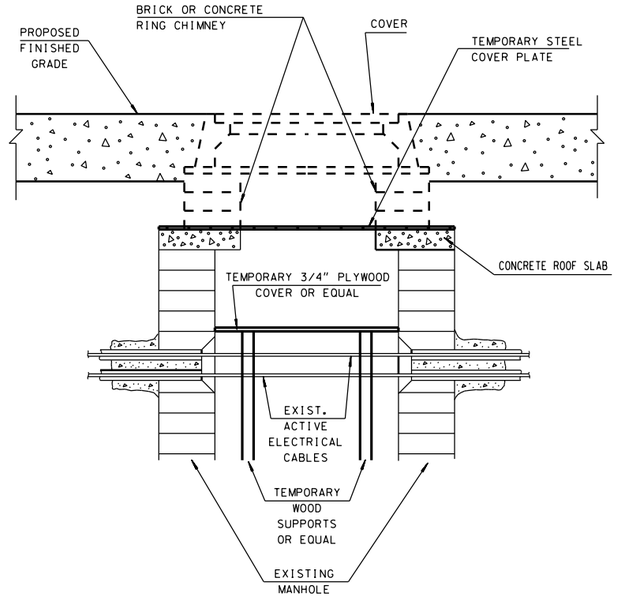
THE ADJUSTING RING SHALL BE 2" OR 3" IN HEIGHT.

THE CIRCUMFERENTIAL STEEL SHALL BE CENTERED WITHIN THE RING.

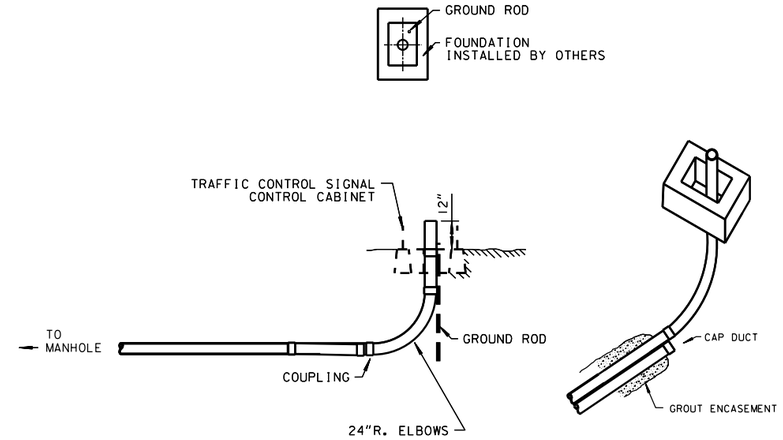
AREA OF CIRCUMFERENTIAL STEEL = 0.07 SQ. INCH PER VERTICAL FOOT WITH A MINIMUM OF .024 SQ. INCH IN ANY ONE RING.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE CORE SHALL BE 4000 P.S.I.

CONCRETE ADJUSTING RING

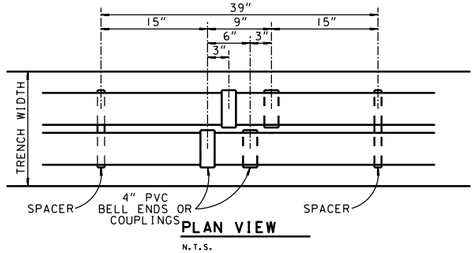


BLOCK OR PRECAST MANHOLE



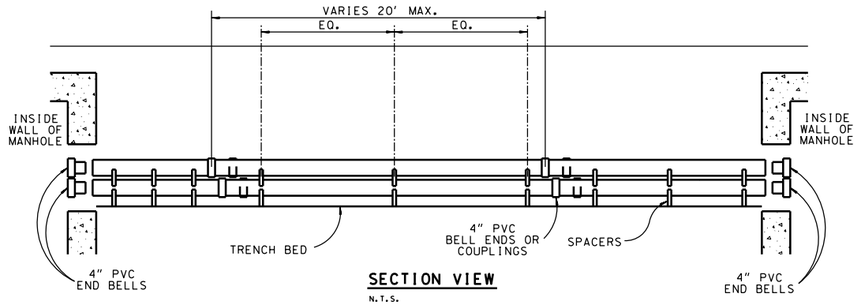
TRAFFIC CONTROL CABINET

FOR REFERENCE ONLY



PLAN VIEW

N.T.S.

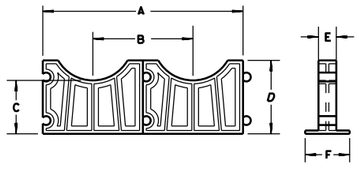


SECTION VIEW

N.T.S.

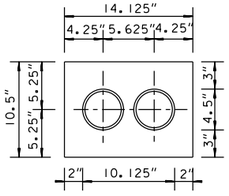
DUCT INSTALLATION DETAIL

COND.	3"	4"
A	10"	11 ¼"
B	5"	5 ⅝"
C	3"	3"
D	3 ⅞"	4 ⅛"
E	1"	1"
F	2 ½"	2 ½"



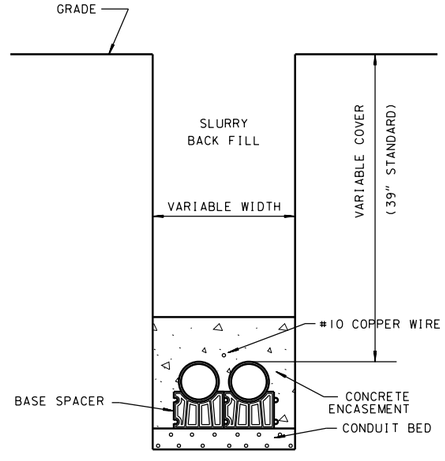
BASE SPACER

INTERMEDIATE AND BASE SPACER DETAIL



CROSS SECTION VIEW

N.T.S.



CROSS SECTION VIEW, TYP.

N.T.S.

SHEET 3 OF 3

STATE PROJECT NUMBER 2415-00-71 - -	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CITY UG CONDUIT (DETAILS)	SCALE FEET	SHEET NO: 85	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2017\S 60TH ST_MORGAN-KINNICKINNIC\DGN\DETAILS.DGN

2

N

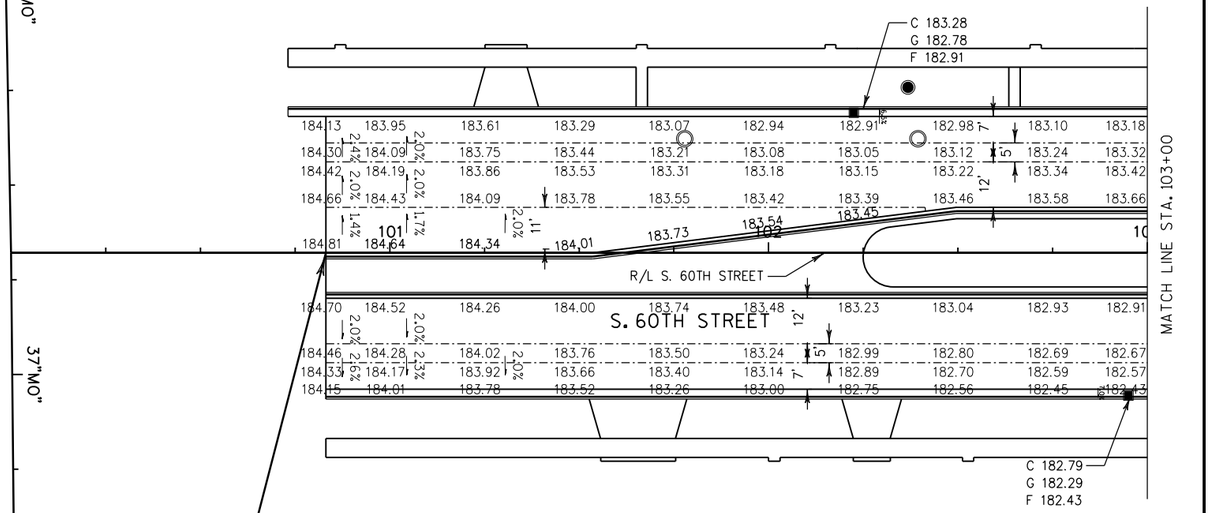
35"MO"

36"MO"

W. MORGAN AVENUE

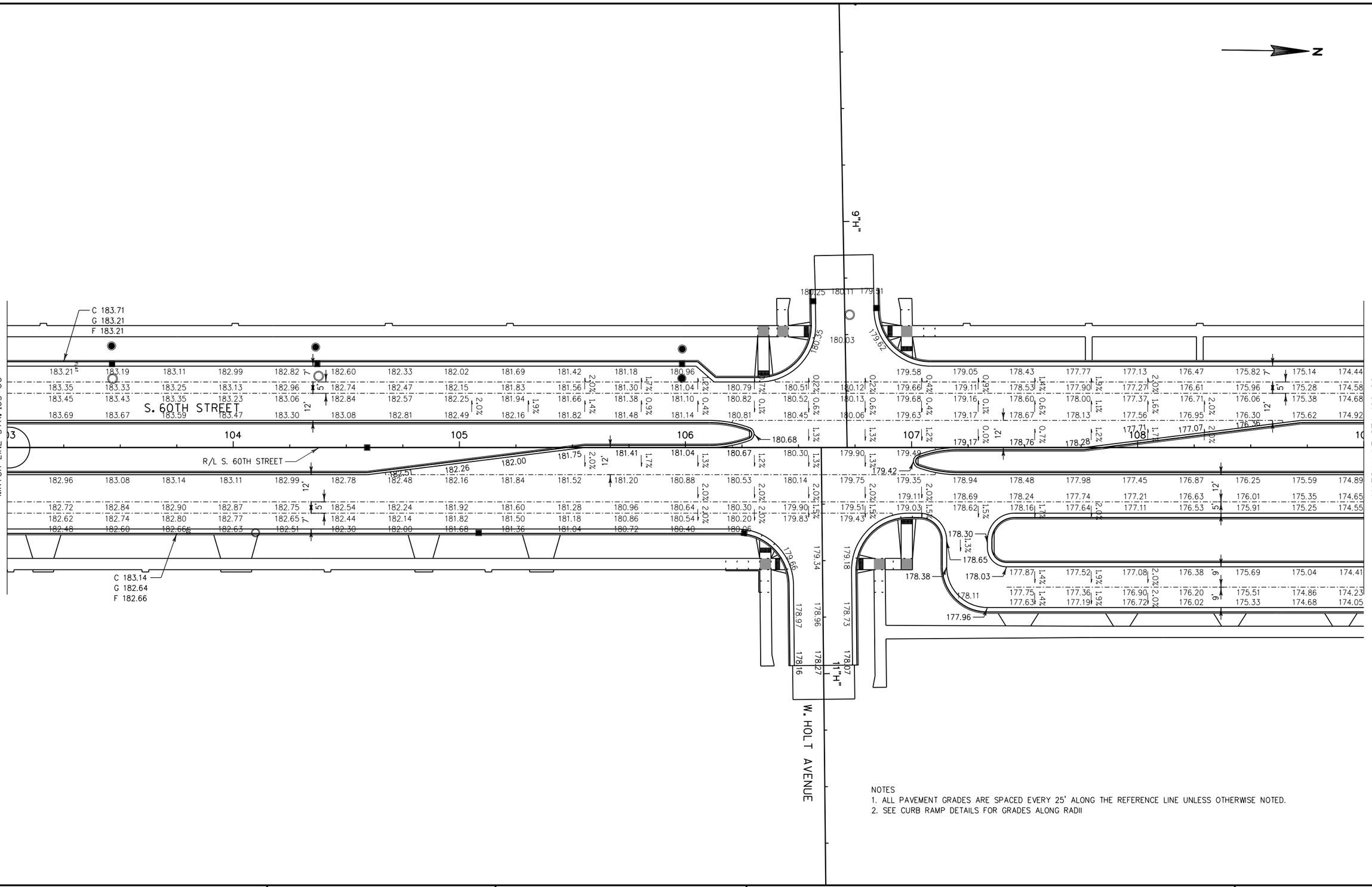
37"MO"

38"MO"



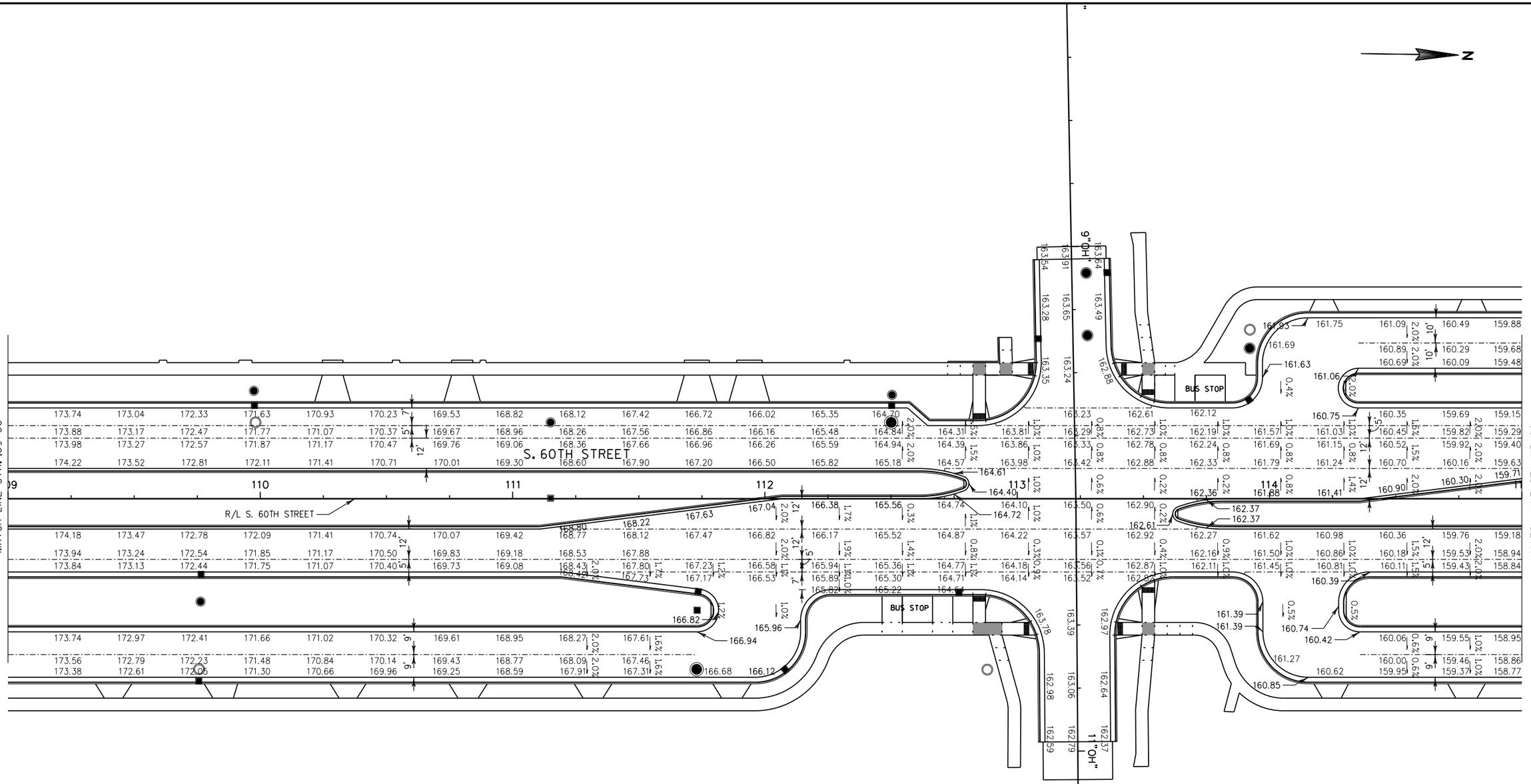
NOTES
1. ALL PAVEMENT GRADES ARE SPACED EVERY 25' ALONG THE REFERENCE LINE UNLESS OTHERWISE NOTED.
2. SEE CURB RAMP DETAILS FOR GRADES ALONG RADII

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVING GRADES - S. 60TH STREET	SHEET 86	E



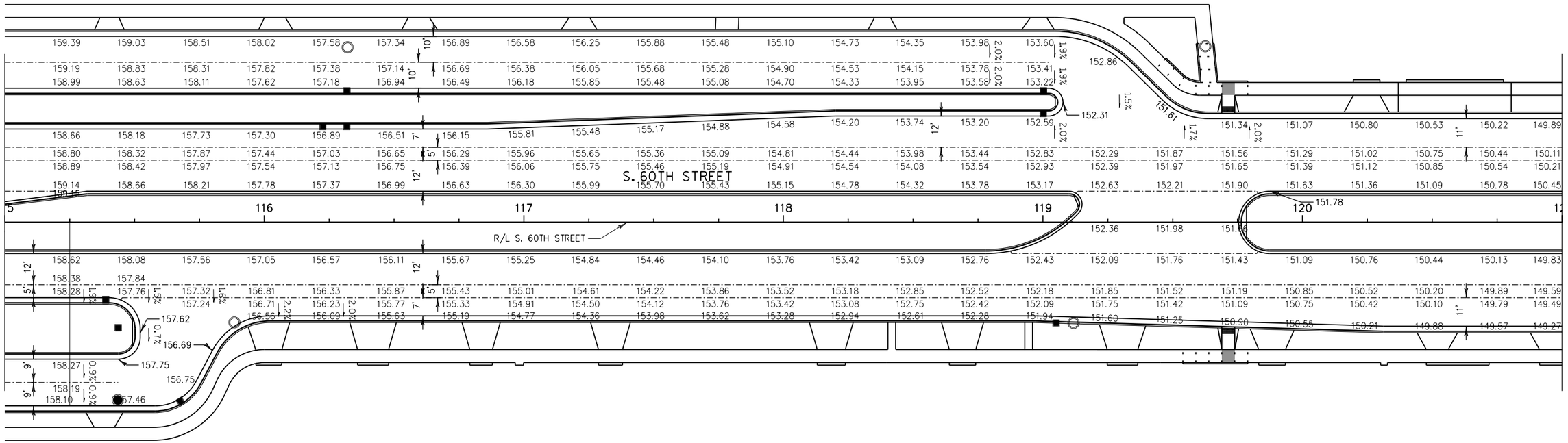
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVING GRADES - S. 60TH STREET	SHEET 87	E

2



NOTES
1. ALL PAVEMENT GRADES ARE SPACED EVERY 25' ALONG THE REFERENCE LINE UNLESS OTHERWISE NOTED.
2. SEE CURB RAMP DETAILS FOR GRADES ALONG RADII

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVING GRADES - S. 60TH STREET	SHEET 88	E



NOTES
1. ALL PAVEMENT GRADES ARE SPACED EVERY 25' ALONG THE REFERENCE LINE UNLESS OTHERWISE NOTED.
2. SEE CURB RAMP DETAILS FOR GRADES ALONG RADII

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVING GRADES - S. 60TH STREET	SHEET 89	E

2

N

45'0"

46'0"

47'0"

48'0"

MATCH LINE STA. 121+00

MATCH LINE STA. 127+00

S. 60TH STREET

R/L S. 60TH STREET

W. LAKEFIELD DRIVE

11'LA"

W. OKLAHOMA AVENUE

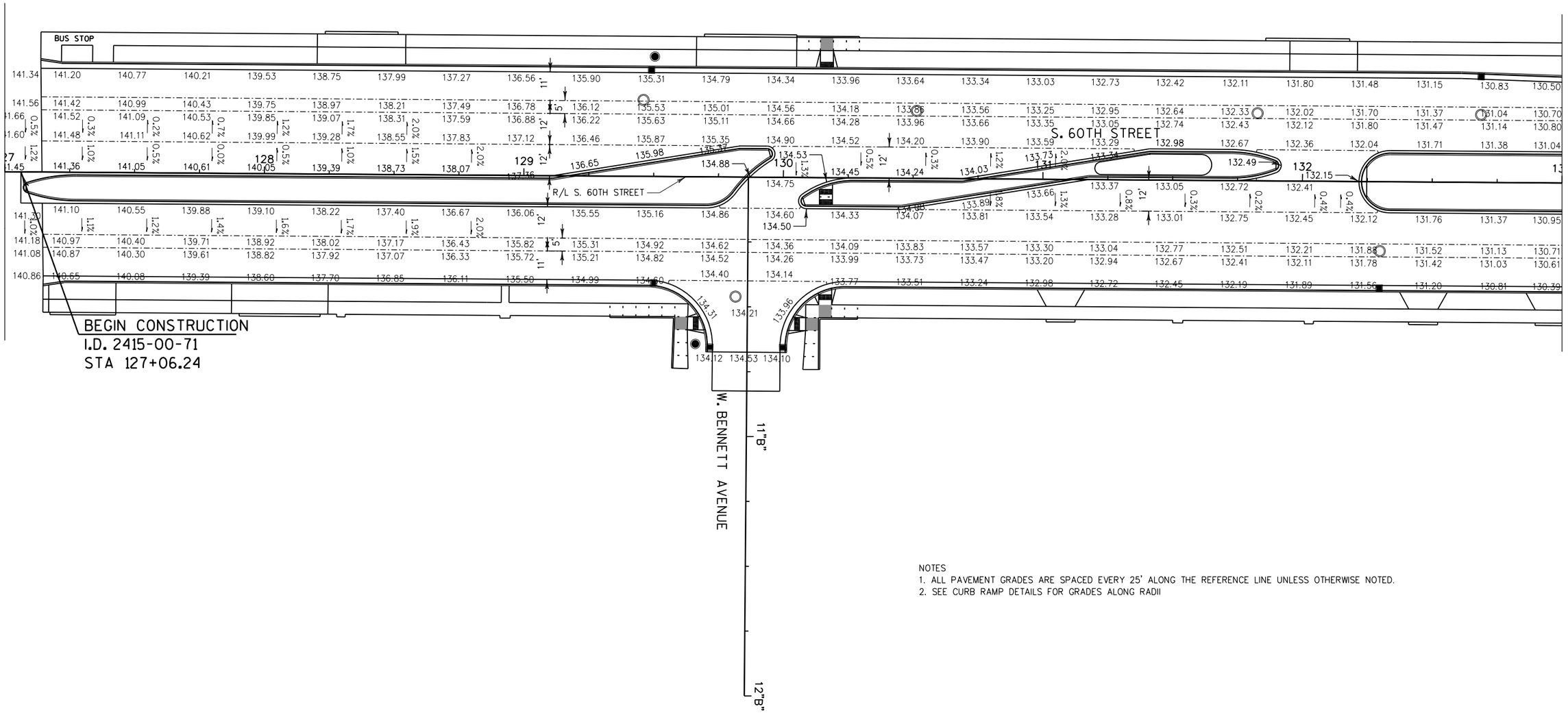
END CONSTRUCTION
I.D. 2415-00-71
STA 125+82.01

BUS STOP

| | | |

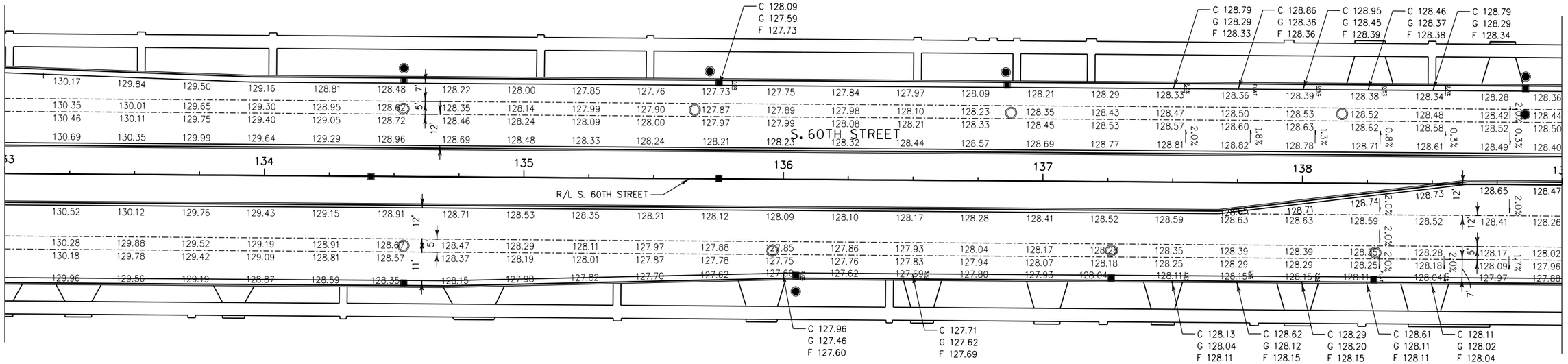
2

N



NOTES
1. ALL PAVEMENT GRADES ARE SPACED EVERY 25' ALONG THE REFERENCE LINE UNLESS OTHERWISE NOTED.
2. SEE CURB RAMP DETAILS FOR GRADES ALONG RADII

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN DETAILS - S. 60TH STREET	SHEET 91	E



NOTES
1. ALL PAVEMENT GRADES ARE SPACED EVERY 25' ALONG THE REFERENCE LINE UNLESS OTHERWISE NOTED.
2. SEE CURB RAMP DETAILS FOR GRADES ALONG RADII

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVING GRADES - S. 60TH STREET	SHEET 92	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\021307_pg.dgn PLOT DATE : 7/31/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

"S" 6

"S" 11

W. STACK DRIVE

S. 60TH STREET

R/L S. 60TH STREET

BUS STOP

BUS STOP

MATCH LINE STA. 139+00

MATCH LINE STA. 145+00

MATCH LINE

C 128.97
G 128.47
F 128.62

C 128.89
G 128.39
F 128.58

C 128.97
G 128.47
F 128.58

C 130.17
G 129.67
F 129.73

C 130.27
G 129.77
F 129.77

C 130.16
G 129.66
F 129.72

C 129.62
G 129.12
F 129.12

NOTES
1. ALL PAVEMENT GRADES ARE SPACED EVERY 25' ALONG THE REFERENCE LINE UNLESS OTHERWISE NOTED.
2. SEE CURB RAMP DETAILS FOR GRADES ALONG RADII

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVING GRADES - S. 60TH STREET	SHEET 93	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\021308_pg.dgn PLOT DATE : 7/31/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:40

2

N

W. MONTANA STREET

10"MT"

11"MT"

S. 60TH STREET

R/L S. 60TH STREET

MATCH LINE STA. 145+00

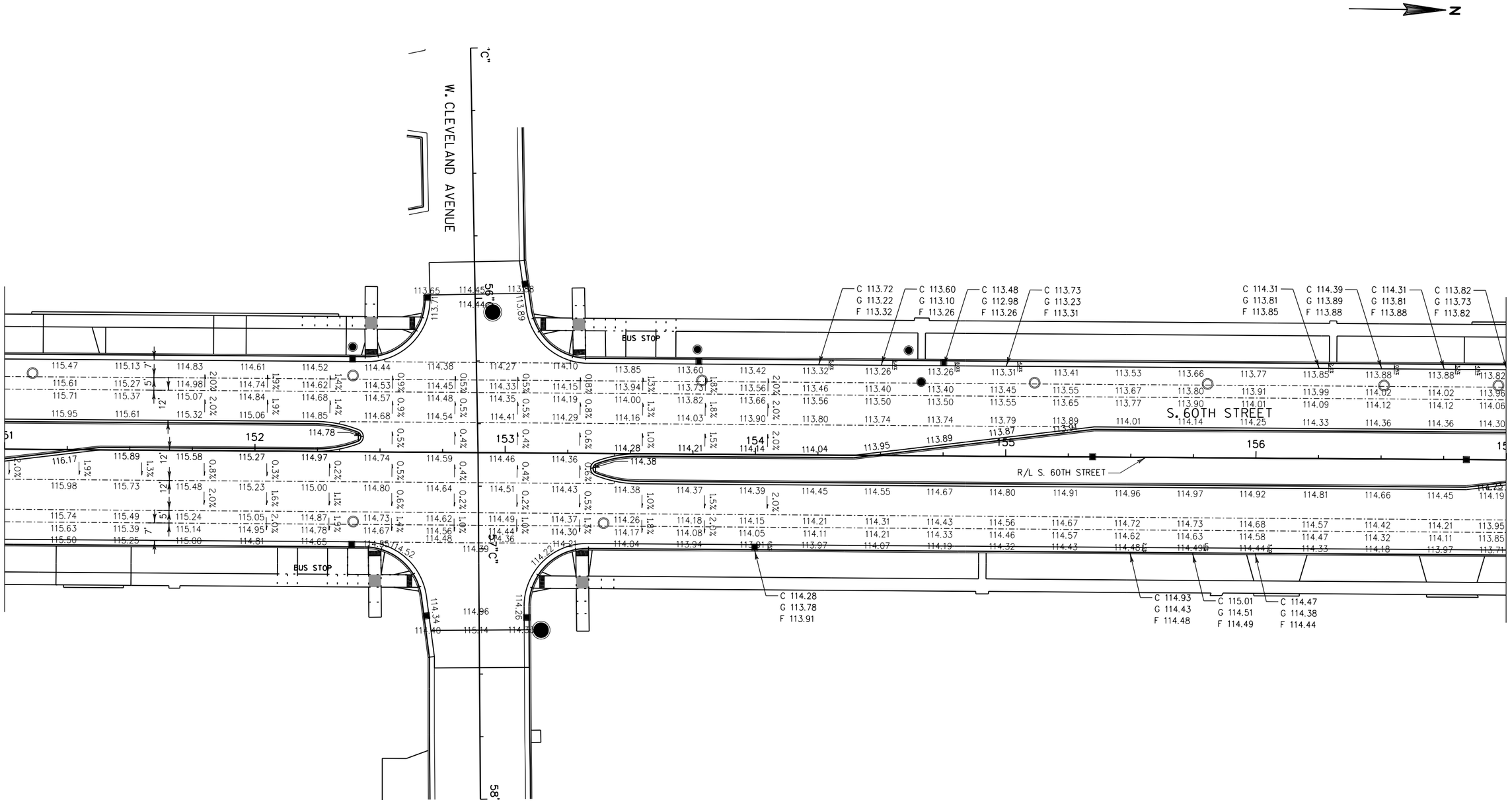
MATCH LINE STA. 151+00

NOTES
1. ALL PAVEMENT GRADES ARE SPACED EVERY 25' ALONG THE REFERENCE LINE UNLESS OTHERWISE NOTED.
2. SEE CURB RAMP DETAILS FOR GRADES ALONG RADII

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVING GRADES - S. 60TH STREET	SHEET 94	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\021309_pg.dgn PLOT DATE : 7/31/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:40

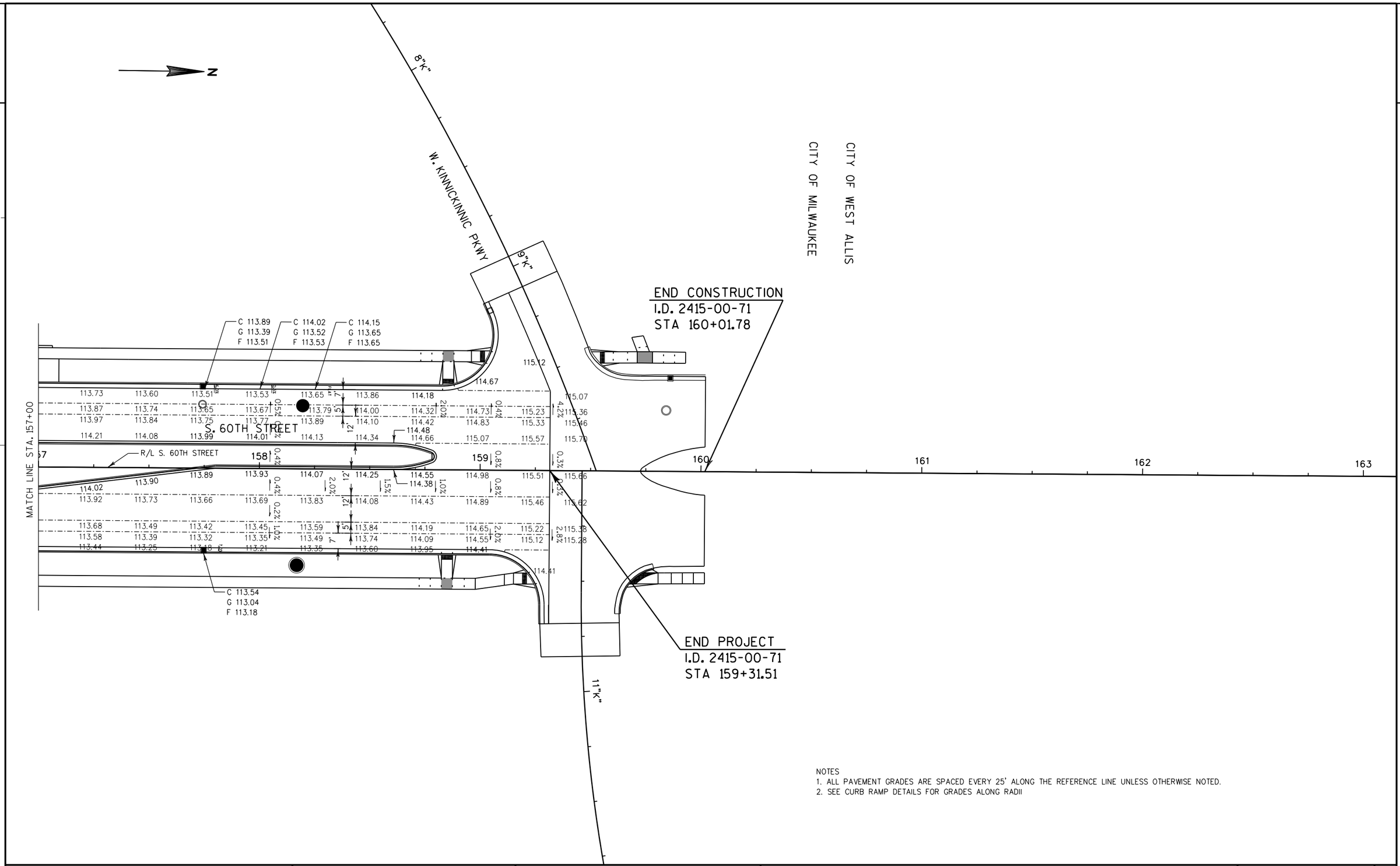
2



NOTES
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2. SEE CURB RAMP DETAILS FOR GRADES ALONG RADII

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVING GRADES - S. 60TH STREET	SHEET 95	E

2

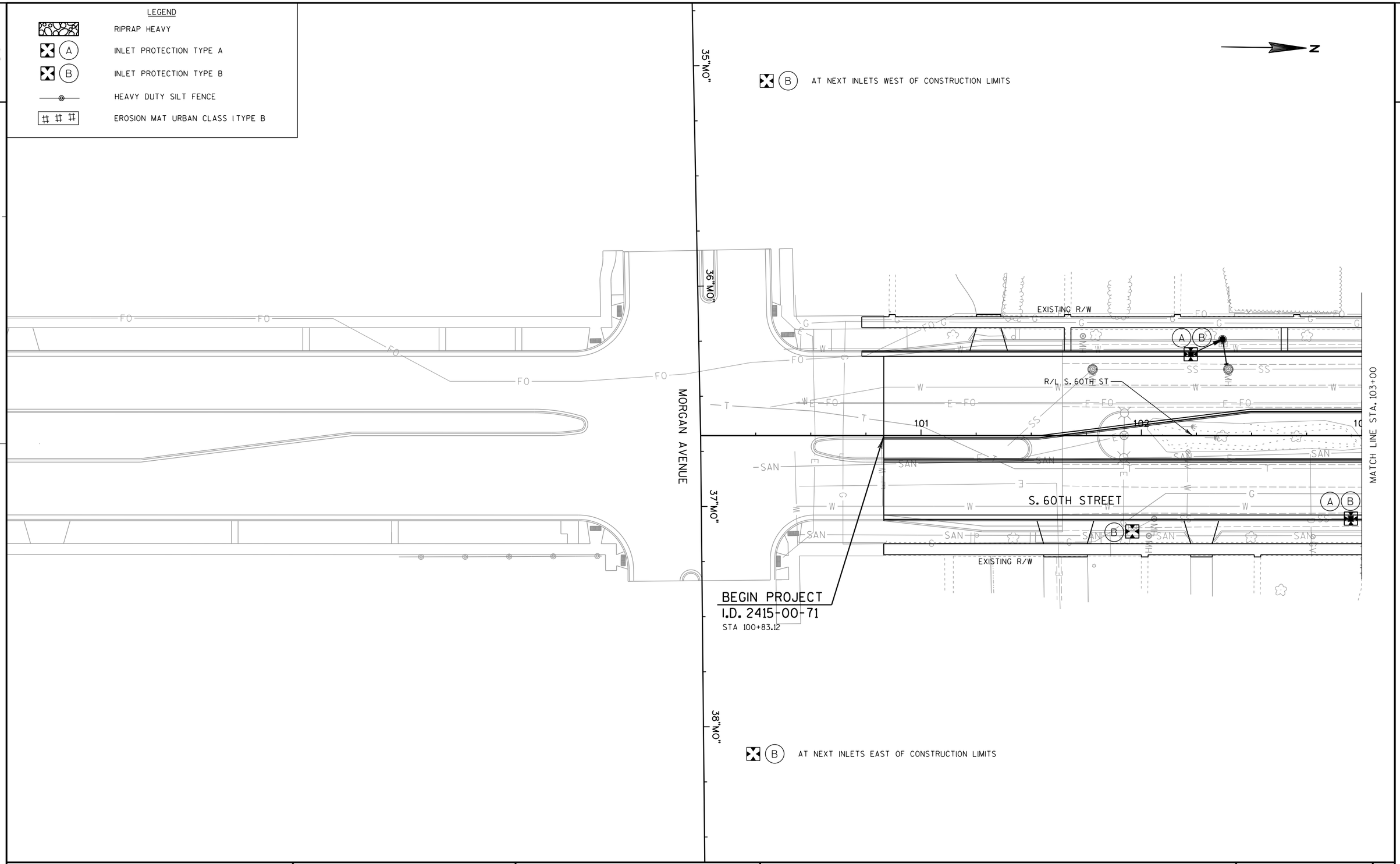


NOTES
1. ALL PAVEMENT GRADES ARE SPACED EVERY 25' ALONG THE REFERENCE LINE UNLESS OTHERWISE NOTED.
2. SEE CURB RAMP DETAILS FOR GRADES ALONG RADII

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVING GRADES - S. 60TH STREET	SHEET 96	E

LEGEND

- RIPRAP HEAVY
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- HEAVY DUTY SILT FENCE
- EROSION MAT URBAN CLASS I TYPE B



PROJECT NO: 2415-00-71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	EROSION CONTROL: S. 60TH STREET	SHEET 97	E

LEGEND

- RIPRAP HEAVY
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- HEAVY DUTY SILT FENCE
- EROSION MAT URBAN CLASS ITYPE B

N

(B) AT NEXT INLETS WEST OF CONSTRUCTION LIMITS

EXISTING R/W

EXISTING R/W

MATCH LINE STA. 103+00

MATCH LINE STA. 109+00

S. 60TH STREET

R/L S. 60TH ST

EXISTING R/W

EXISTING R/W

HOLT AVENUE

(B) AT NEXT INLETS EAST OF CONSTRUCTION LIMITS

PROJECT NO: 2415-00-71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	EROSION CONTROL: S. 60TH STREET	SHEET 98	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\022002_ec.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

LEGEND

- RIPRAP HEAVY
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- HEAVY DUTY SILT FENCE
- EROSION MAT URBAN CLASS ITYPE B

N

(B) AT NEXT INLETS WEST OF CONSTRUCTION LIMITS

BM 512

MATCH LINE STA. 109+00

MATCH LINE STA. 115+00

R/L S. 60TH ST

S. 60TH STREET

EXISTING R/W

BUS STOP

1"OH"

W. OHIO AVENUE

(B) AT NEXT INLETS EAST OF CONSTRUCTION LIMITS

PROJECT NO: 2415-00-71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	EROSION CONTROL: S. 60TH STREET	SHEET 99	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\022003_ec.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

LEGEND

- RIPRAP HEAVY
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- HEAVY DUTY SILT FENCE
- EROSION MAT URBAN CLASS I TYPE B

N

EXISTING R/W

MATCH LINE STA. 115+00

115 116 117 118 119 120

MATCH LINE STA. 121+00

R/L S. 60TH ST

S. 60TH STREET

EXISTING R/W

PROJECT NO: 2415-00-71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	EROSION CONTROL: S. 60TH STREET	SHEET 100	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\022004_ec.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

LEGEND

- RIPRAP HEAVY
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- HEAVY DUTY SILT FENCE
- EROSION MAT URBAN CLASS I TYPE B

(B) AT NEXT INLETS WEST OF CONSTRUCTION LIMITS

N

45"O"

46"O"

47"O"

48"O"

EXISTING R/W

R/L S. 60TH ST

S. 60TH STREET

EXISTING R/W

BUS STOP

END CONSTRUCTION
I.D. 2415-00-71
STA 125+82.01

W. LAKEFIELD DRIVE

W. OKLAHOMA AVENUE

11"LA"

MATCH LINE STA. 121+00

MATCH LINE STA. 127+00

(B) AT NEXT INLETS EAST OF CONSTRUCTION LIMITS

(B) AT NEXT INLETS EAST OF CONSTRUCTION LIMITS

PROJECT NO: 2415-00-71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	EROSION CONTROL: S. 60TH STREET	SHEET 101	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\022005_ec.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

LEGEND

- RIPRAP HEAVY
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- HEAVY DUTY SILT FENCE
- EROSION MAT URBAN CLASS I TYPE B

N

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

BUS STOP

EXISTING R/W

R/L S. 60TH ST

MATCH LINE STA. 127+00

MATCH LINE STA. 133+00

S. 60TH STREET

W. BENNETT AVENUE

11"B"

EXISTING R/W

EXISTING R/W

(B) AT NEXT INLETS EAST OF CONSTRUCTION LIMITS

PROJECT NO: 2415-00-71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	EROSION CONTROL: S. 60TH STREET	SHEET 102	E

LEGEND

- RIPRAP HEAVY
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- HEAVY DUTY SILT FENCE
- EROSION MAT URBAN CLASS ITYPE B

N

MATCH LINE STA. 133+00

MATCH LINE STA. 139+00

EXISTING R/W

R/L S. 60TH ST

S. 60TH STREET

EXISTING R/W

PROJECT NO: 2415-00-71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	EROSION CONTROL: S. 60TH STREET	SHEET 103	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\022007_ec.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

LEGEND

- RIPRAP HEAVY
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- HEAVY DUTY SILT FENCE
- EROSION MAT URBAN CLASS ITYPE B

(B) AT NEXT INLETS WEST OF CONSTRUCTION LIMITS

N

MATCH LINE STA. 139+00

MATCH LINE STA. 145+00

EXISTING R/W

EXISTING R/W

BUS STOP

R/L S. 60TH ST

S. 60TH STREET

BUS STOP

EXISTING R/W

EXISTING R/W

W. STACK DRIVE

11"S"

9"S"

FLAG

(B) AT NEXT INLETS EAST OF CONSTRUCTION LIMITS

PROJECT NO: 2415-00-71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	EROSION CONTROL: S. 60TH STREET	SHEET 104	E

LEGEND

- RIPRAP HEAVY
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- HEAVY DUTY SILT FENCE
- EROSION MAT URBAN CLASS ITYPE B

(B) AT NEXT INLETS WEST OF CONSTRUCTION LIMITS

N

10"MT"

11"MT"

W. MONTANA STREET

EXISTING R/W

EXISTING R/W

R/L S. 60TH ST

S. 60TH STREET

EXISTING R/W

MATCH LINE STA. 145+00

MATCH LINE STA. 151+00

PROJECT NO: 2415-00-71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	EROSION CONTROL: S. 60TH STREET	SHEET 105	E

LEGEND

- RIPRAP HEAVY
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- HEAVY DUTY SILT FENCE
- EROSION MAT URBAN CLASS ITYPE B

(B) AT NEXT INLETS WEST OF CONSTRUCTION LIMITS

N

W. CLEVELAND AVENUE

55"C"

56"C"

57"C"

58"C"

EXISTING R/W

BUS STOP

R/L S. 60TH ST

S. 60TH STREET

MATCH LINE STA. 151+00

MATCH LINE STA. 157+00

151 152 153 154 155 156

(B) AT NEXT INLETS EAST OF CONSTRUCTION LIMITS

PROJECT NO: 2415-00-71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	EROSION CONTROL: S. 60TH STREET	SHEET 106	E

LEGEND

- RIPRAP HEAVY
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- HEAVY DUTY SILT FENCE
- EROSION MAT URBAN CLASS I TYPE B

W. KINNICKINNIC PKWY

9"K"

(B) AT NEXT INLETS WEST OF CONSTRUCTION LIMITS

END PROJECT
STA 159+31.51
STA 159+31.51

EXISTING R/W

MATCH LINE STA. 157+00

157 158 159 160 161 162 163

R/L S. 60TH ST

S. 60TH STREET

EXISTING R/W

SEE CONSTRUCTION DETAIL "STORM SEWER OUTFALL DETAIL"

WETLAND

20' CITY OF MILWAUKEE WATER MAIN EASEMENT

11"K"

12"K"

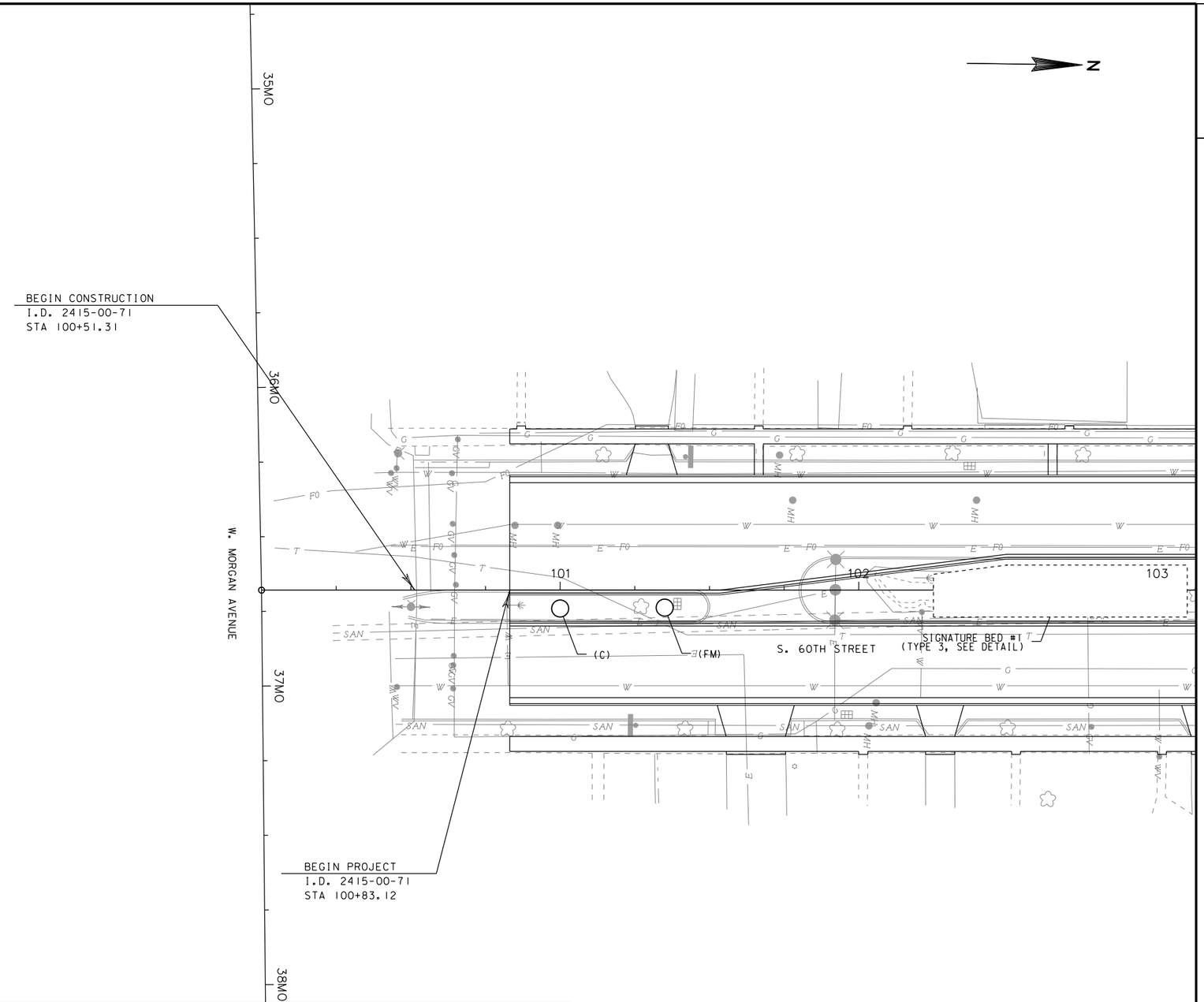
(B) AT NEXT INLETS EAST OF CONSTRUCTION LIMITS

END CONSTRUCTION
I.D. 2415-00-71
STA 160+01.78

PROJECT NO: 2415-00-71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	EROSION CONTROL: S. 60TH STREET	SHEET 107	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\022011_ec.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
( )

PLANT KEY:

KENTUCKY COFFEE (KC)	SERVICE BERRY (SB)
IVORY SILK LILAC (SL)	HORSE CHECTNUT/
LOCUST-SUNBURST (LS)	BUCKEY-BRIOTTI-TREE FORM (HC)
FREEMAN MAPLE (FM)	HAWTHORN-THORN LESS (HT)
ENGLISH OAK (EO)	BALD CYPRESS (BC)
PEAR (P)	CATALPA (C)
RED BUD (RB)	RIVER/YELLOW BIRCH (RB)

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART

SHEET 1 OF 11

STATE PROJECT NUMBER 2415-00-71	HWY: S. 60TH ST	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 108	E

FILE NAME = W:\SPR\THERESA\S 60TH STREET (EMCS)\PLANTINGPLANS\PLANTING-SHEET1.DGN

2

2

N

S. 60TH STREET

W. HOLT AVENUE

103 104 105 106 107 108 109

(FM) (HC) (HC) (HC) (HT) (LS) (LS)

(HC) (HC) (HC)

LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
- ( )

PLANT KEY:

KENTUCKY COFFEE (KC)	SERVICE BERRY (SB)
IVORY SILK LILAC (SL)	HORSE CHECTNUT/ BUCKEY-BRIOTTI-TREE FORM (HC)
LOCUST-SUNBURST (LS)	HAWTHORN-THORN LESS (HT)
FREEMAN MAPLE (FM)	BALD CYPRESS (BC)
ENGLISH OAK (EO)	CATALPA (C)
PEAR (P)	RIVER/YELLOW BIRCH (RB)
RED BUD (RB)	

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART

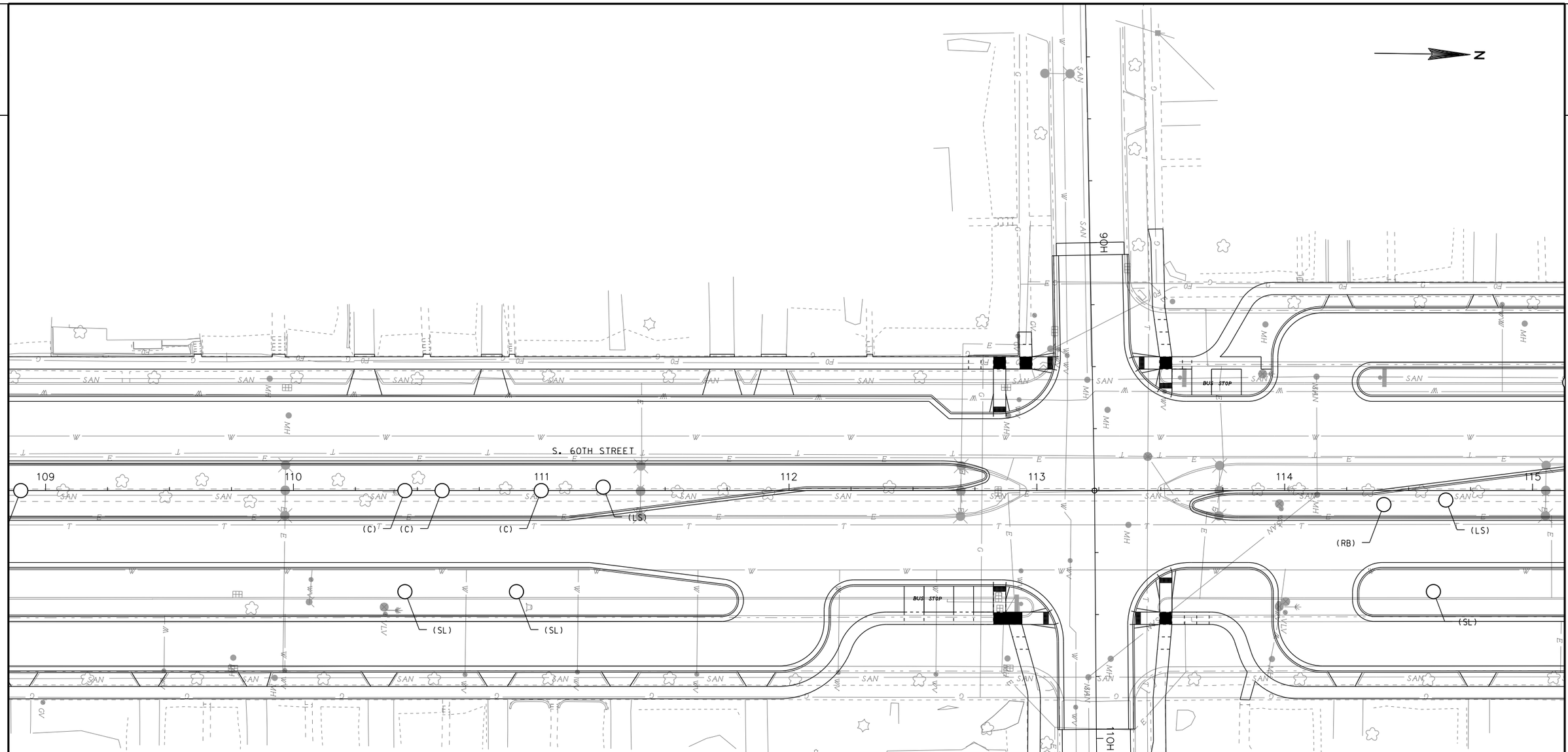
OF 11

SHEET 2 OF 11

STATE PROJECT NUMBER 2415-00-71	HWY: S. 60TH ST	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 109	E

FILE NAME: W:\SPR\THERESA\S 60TH STREET (EMCS)\PLANTINGPLANS\PLANTING-SHEET2.DGN

2



LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
( )

PLANT KEY:

KENTUCKY COFFEE (KC)	SERVICE BERRY (SB)
IVORY SILK LILAC (SL)	HORSE CHECTNUT/ BUCKEY-BRIOTTI-TREE FORM (HC)
LOCUST-SUNBURST (LS)	HAWTHORN-THORN LESS (HT)
FREEMAN MAPLE (FM)	BALD CYPRESS (BC)
ENGLISH OAK (EO)	CATALPA (C)
PEAR (P)	RIVER/YELLOW BIRCH (RB)
RED BUD (RB)	

NOTES:

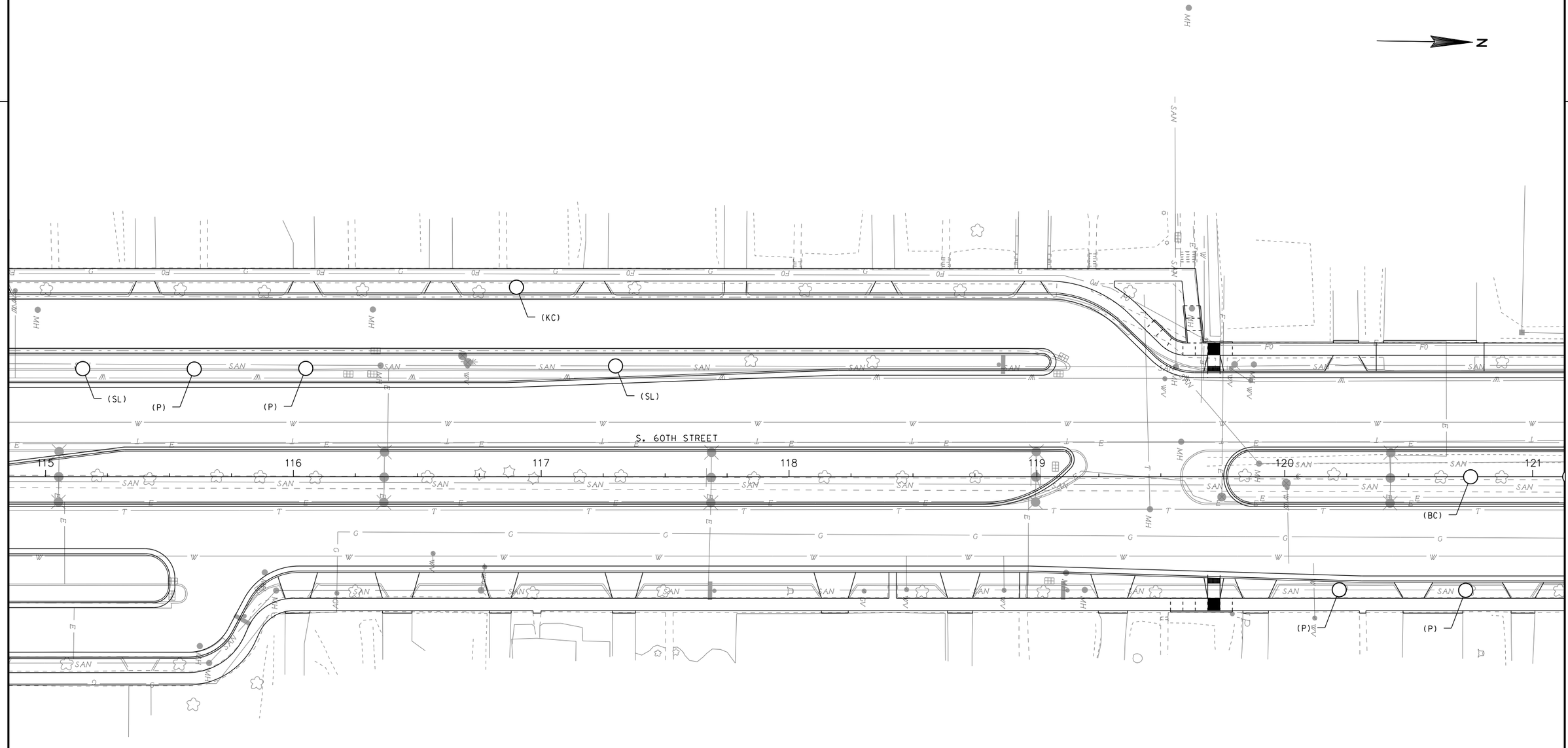
1. ADJUST PLANTING LOCATION MIN. 2'0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART

SHEET 3 OF 11

STATE PROJECT NUMBER 2415-00-71	HWY: S. 60TH ST	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 110	E

FILE NAME: W:\SPR\THERESA\S 60TH STREET (EMCS)\PLANTINGPLANS\PLANTING-SHEET3.DGN

2



LEGEND:

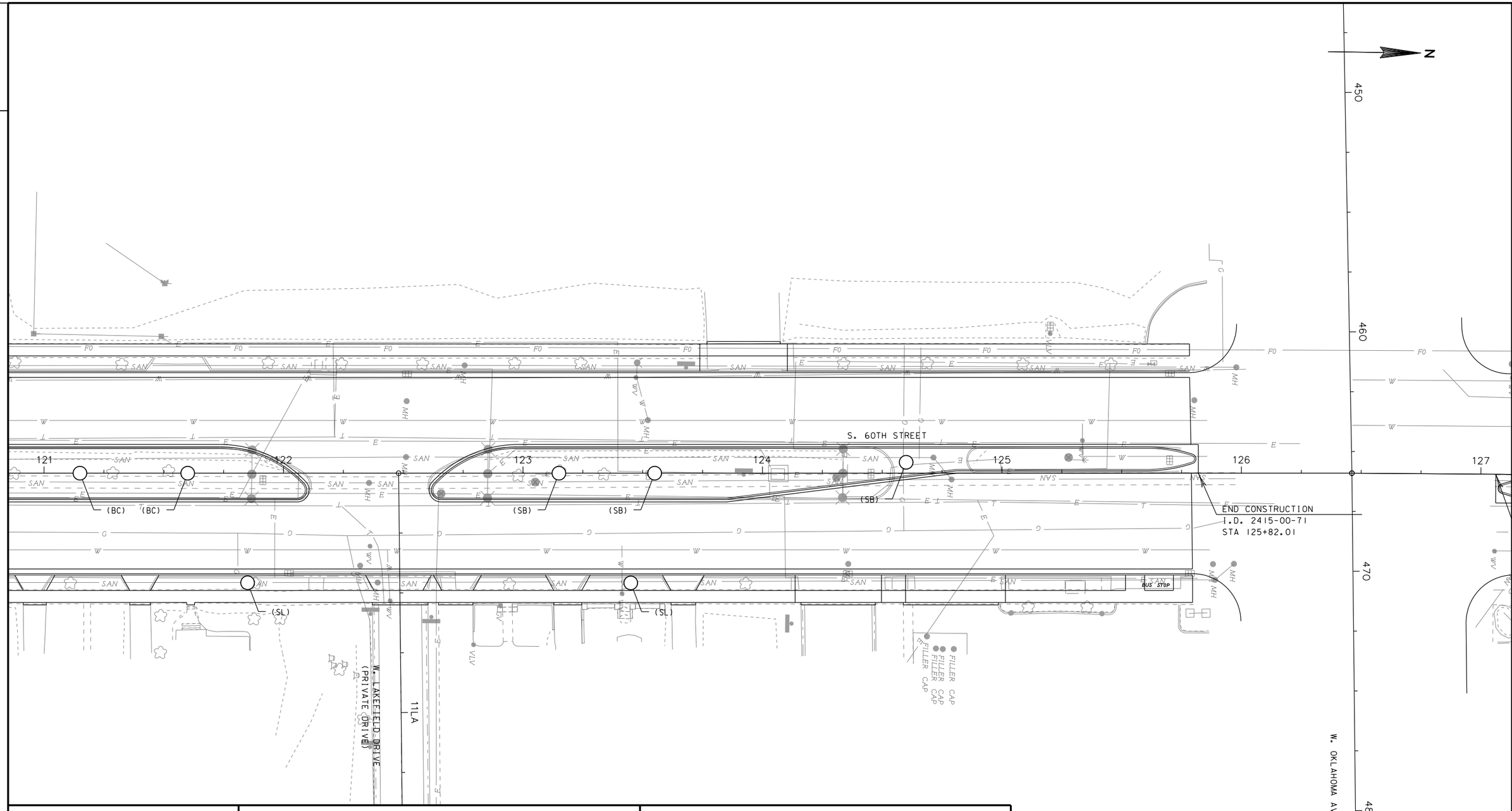
- PLANT NEW TREE (TYPE) SEE KEY
( )

PLANT KEY:

KENTUCKY COFFEE (KC)	SERVICE BERRY (SB)
IVORY SILK LILAC (SL)	HORSE CHECTNUT/ BUCKEY-BRIOTTI-TREE FORM (HC)
LOCUST-SUNBURST (LS)	HAWTHORN-THORN LESS (HT)
FREEMAN MAPLE (FM)	BALD CYPRESS (BC)
ENGLISH OAK (EO)	CATALPA (C)
PEAR (P)	RIVER/YELLOW BIRCH (RB)
RED BUD (RB)	

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART



LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
( )

PLANT KEY:

KENTUCKY COFFEE (KC)	SERVICE BERRY (SB)
IVORY SILK LILAC (SL)	HORSE CHECTNUT/ BUCKEY-BRIOTTI-TREE FORM (HC)
LOCUST-SUNBURST (LS)	HAWTHORN-THORN LESS (HT)
FREEMAN MAPLE (FM)	BALD CYPRESS (BC)
ENGLISH OAK (EO)	CATALPA (C)
PEAR (P)	RIVER/YELLOW BIRCH (RB)
RED BUD (RB)	

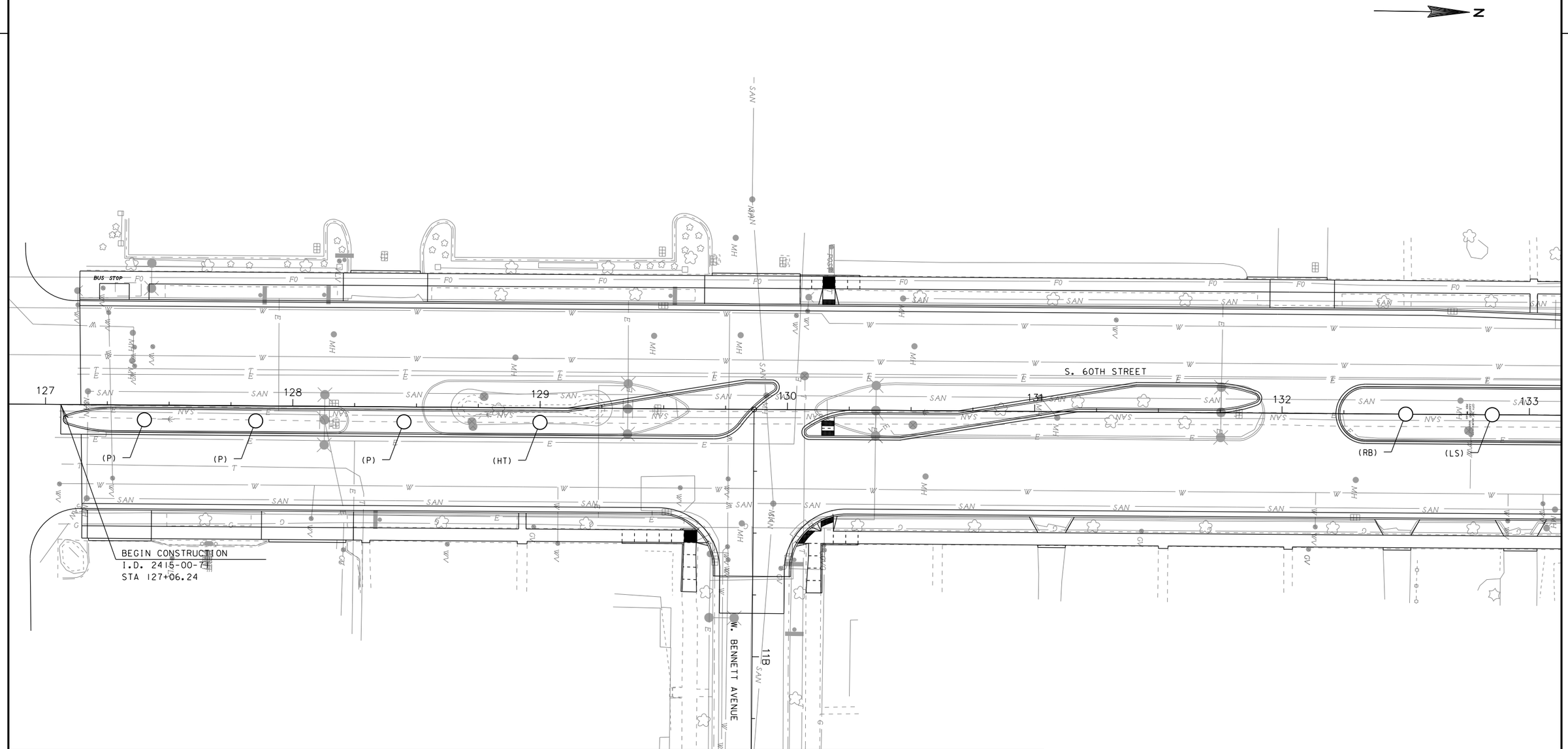
NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART

SHEET 5 OF 11

STATE PROJECT NUMBER 2415-00-71	HWY: S. 60TH ST	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 112	E

FILE NAME: W:\SPR\THERESA\S 60TH STREET (EMCS)\PLANTINGPLANS\PLANTING-SHEET5.DGN



LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
( )

PLANT KEY:

KENTUCKY COFFEE (KC)	SERVICE BERRY (SB)
IVORY SILK LILAC (SL)	HORSE CHECTNUT/ BUCKEY-BRIOTTI-TREE FORM (HC)
LOCUST-SUNBURST (LS)	HAWTHORN-THORN LESS (HT)
FREEMAN MAPLE (FM)	BALD CYPRESS (BC)
ENGLISH OAK (EO)	CATALPA (C)
PEAR (P)	RIVER/YELLOW BIRCH (RB)
RED BUD (RB)	

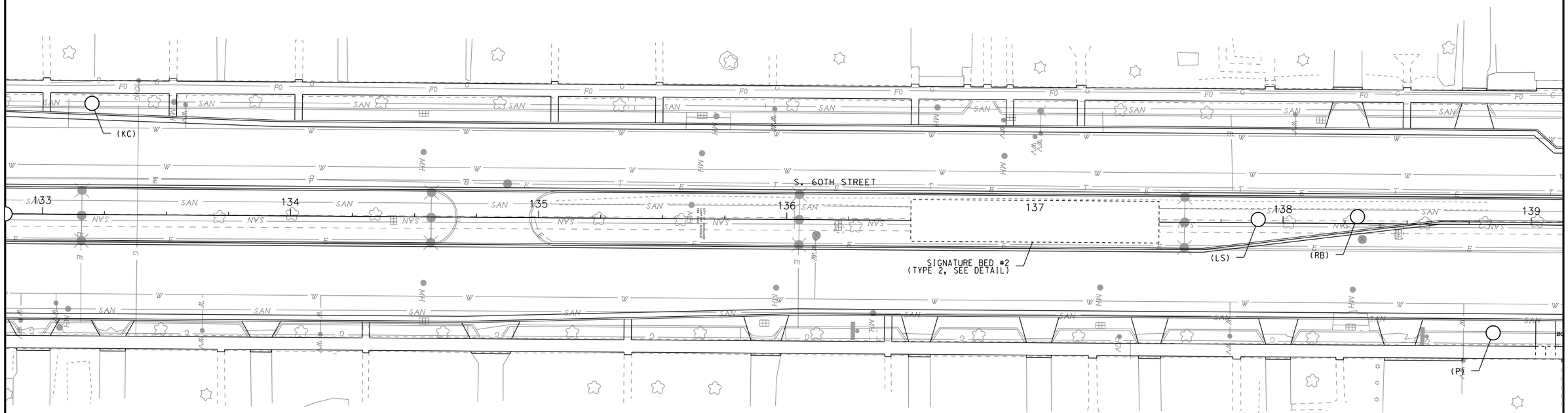
NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART

SHEET 6 OF 11

STATE PROJECT NUMBER 2415-00-71	HWY: S. 60TH ST	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 113 E

FILE NAME: W:\SPR\THERESA\S 60TH STREET (EMCS)\PLANTINGPLANS\PLANTING-SHEET6.DGN



LEGEND:

- PLANT NEW TREE (TYPE)
  SEE KEY
( )

PLANT KEY:

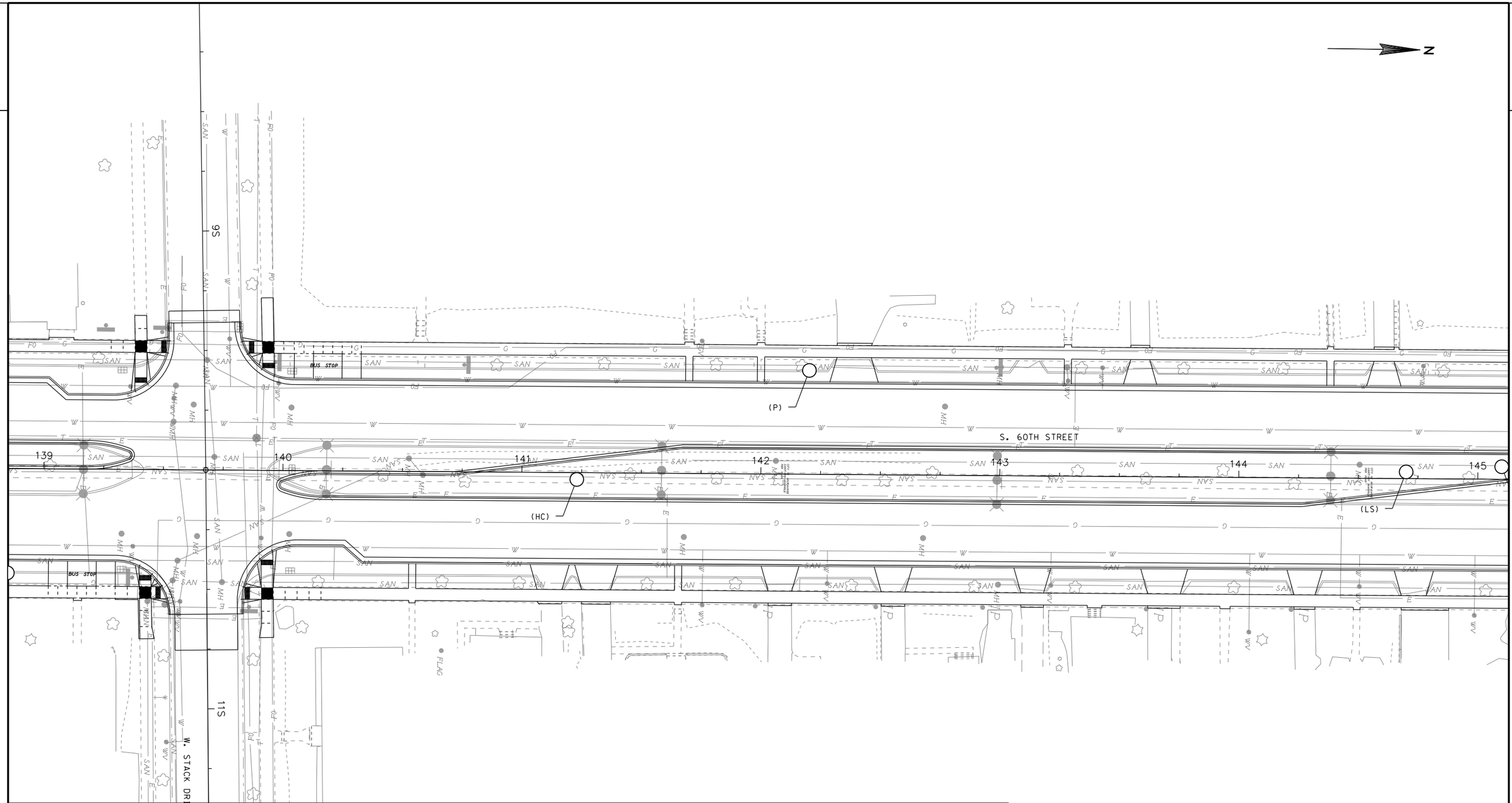
KENTUCKY COFFEE (KC)	SERVICE BERRY (SB)
IVORY SILK LILAC (SL)	HORSE CHECTNUT/ BUCKEY-BRIOTTI-TREE FORM (HC)
LOCUST-SUNBURST (LS)	HAWTHORN-THORN LESS (HT)
FREEMAN MAPLE (FM)	BALD CYPRESS (BC)
ENGLISH OAK (EO)	CATALPA (C)
PEAR (P)	RIVER/YELLOW BIRCH (RB)
RED BUD (RB)	

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART

STATE PROJECT NUMBER 2415-00-71	HWY: S. 60TH ST	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 114 E

FILE NAME: W:\SPR\THERESA\S 60TH STREET (EMCS)\PLANTINGPLANS\PLANTING-SHEET7.DGN



LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
( )

PLANT KEY:

KENTUCKY COFFEE (KC)	SERVICE BERRY (SB)
IVORY SILK LILAC (SL)	HORSE CHECTNUT/ BUCKEY-BRIOTTI-TREE FORM (HC)
LOCUST-SUNBURST (LS)	HAWTHORN-THORN LESS (HT)
FREEMAN MAPLE (FM)	BALD CYPRESS (BC)
ENGLISH OAK (EO)	CATALPA (C)
PEAR (P)	RIVER/YELLOW BIRCH (RB)
RED BUD (RB)	

NOTES:

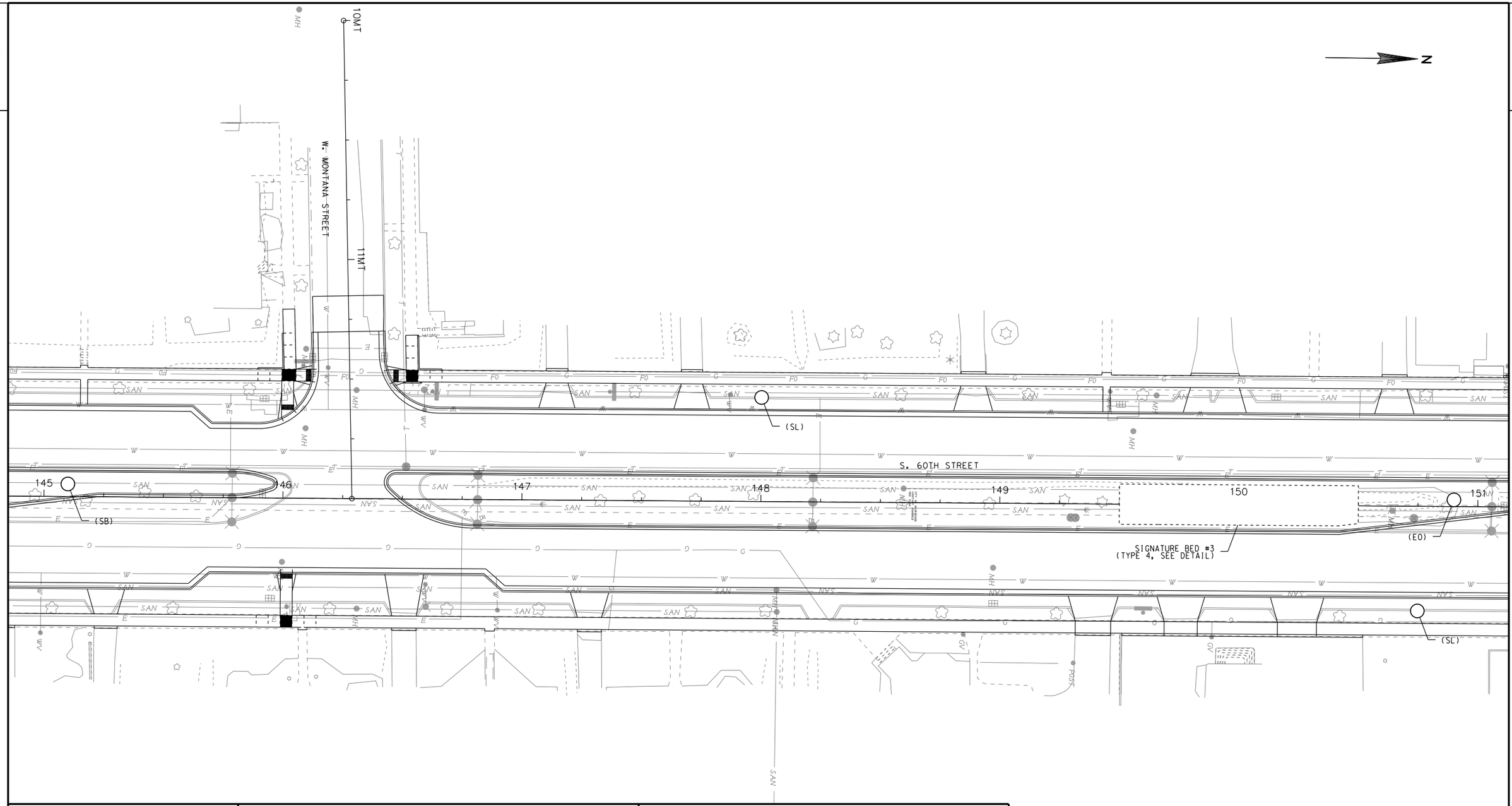
1. ADJUST PLANTING LOCATION MIN. 2'0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART

SHEET 8 OF 11

STATE PROJECT NUMBER 2415-00-71	HWY: S. 60TH ST	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 115 E

FILE NAME: W:\SPR\THERESA\S 60TH STREET (EMCS)\PLANTINGPLANS\PLANTING-SHEET8.DGN

2



LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
( )

PLANT KEY:

KENTUCKY COFFEE (KC)	SERVICE BERRY (SB)
IVORY SILK LILAC (SL)	HORSE CHECTNUT/ BUCKEY-BRIOTTI-TREE FORM (HC)
LOCUST-SUNBURST (LS)	HAWTHORN-THORN LESS (HT)
FREEMAN MAPLE (FM)	BALD CYPRESS (BC)
ENGLISH OAK (EO)	CATALPA (C)
PEAR (P)	RIVER/YELLOW BIRCH (RB)
RED BUD (RB)	

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART

SHEET 9 OF 11

STATE PROJECT NUMBER 2415-00-71	HWY: S. 60TH ST	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 116	E

FILE NAME: W:\SPR\THERESA\S 60TH STREET (EMCS)\PLANTINGPLANS\PLANTING-SHEET9.DGN

2

N

W. CLEVELAND AVENUE

S. 60TH STREET

55C

56C

57C

58C

151 152 153 154 155 156 157

(BC)

(BC)

BUS STOP

BUS STOP

(SL)

LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
- ( )

PLANT KEY:

KENTUCKY COFFEE (KC)	SERVICE BERRY (SB)
IVORY SILK LILAC (SL)	HORSE CHECTNUT/ BUCKEY-BRIOTTI-TREE FORM (HC)
LOCUST-SUNBURST (LS)	HAWTHORN-THORN LESS (HT)
FREEMAN MAPLE (FM)	BALD CYPRESS (BC)
ENGLISH OAK (EO)	CATALPA (C)
PEAR (P)	RIVER/YELLOW BIRCH (RB)
RED BUD (RB)	

NOTES:

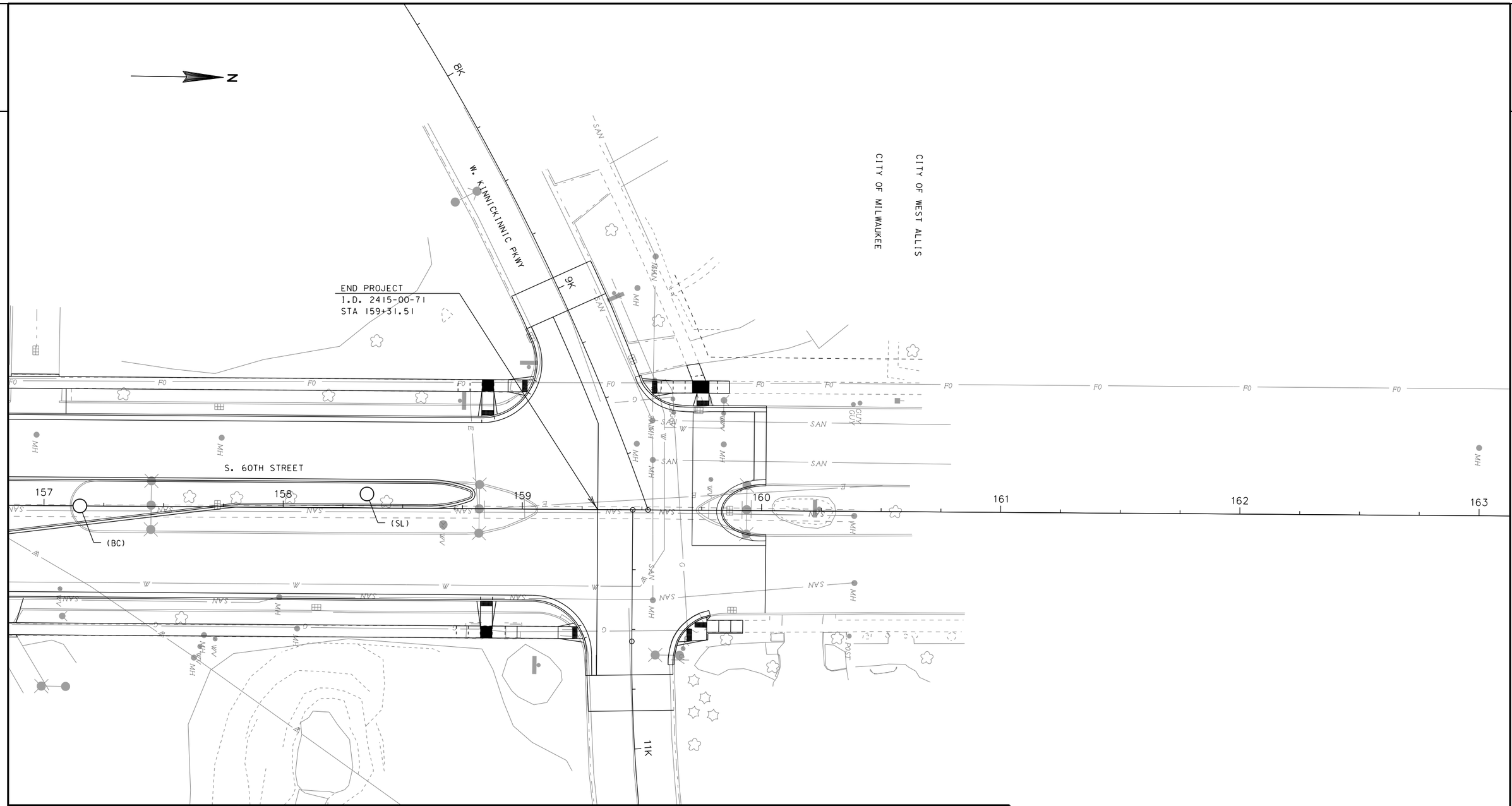
1. ADJUST PLANTING LOCATION MIN. 2'0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART

SHEET 10 OF 11

STATE PROJECT NUMBER 2415-00-71	HWY: S. 60TH ST	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 117	E

FILE NAME: W:\SPR\THERESA\S 60TH STREET (EMCS)\PLANTINGPLANS\PLANTING-SHEET10.DGN

2



LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
( )

PLANT KEY:

KENTUCKY COFFEE (KC)	SERVICE BERRY (SB)
IVORY SILK LILAC (SL)	HORSE CHECTNUT/ BUCKEY-BRIOTTI-TREE FORM (HC)
LOCUST-SUNBURST (LS)	HAWTHORN-THORN LESS (HT)
FREEMAN MAPLE (FM)	BALD CYPRESS (BC)
ENGLISH OAK (EO)	CATALPA (C)
PEAR (P)	RIVER/YELLOW BIRCH (RB)
RED BUD (RB)	

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART

SHEET 11 OF 11

STATE PROJECT NUMBER 2415-00-71	HWY: S. 60TH ST	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 118	E

FILE NAME: W:\SPR\THERESA\S 60TH STREET (EMCS)\PLANTINGPLANS\PLANTING-SHEET11.DGN

2

N

1-1
RIGHT LANE MUST TURN RIGHT
REMOVE

1-2
NO PARKING BUS STOP
REMOVE

1-3
RIGHT LANE MUST TURN RIGHT
REMOVE

AHEAD
REMOVE

REMOVE

PROJECT START

S.60th ST.

W.MORGAN AV.

section line
N.00°39'43"W.

39

101 102 103 104

+50

SPEED LIMIT 35
REMOVE
1-4

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

SCALE, FEET 0 30

SHEET 1 OF 13

PROJECT NO: 2415–00–71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 119	E

2

2

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

N

2-1

STOP

REMOVE

W. HOLT AVE.

2-2

NO PARKING BUS STOP

REMOVE

S.60th ST.

BUS STOP

NO PARKING BUS STOP

REMOVE

2-3

105 106 107 108 109 +50

SCALE, FEET 0 30

SHEET 2 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60th St.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 120	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

3-1
STOP
REMOVE

N

W. OHIO AVE.

S.60th ST.

BUS STOP

110 111 112 113 114

+50

NO PARKING BUS STOP
REMOVE
3-3

STOP
REMOVE
3-2

SCALE, FEET 0 30

SHEET 3 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 121	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

4-1

NO PARKING BUS STOP

REMOVE

S.60th ST.

115 116 117 118

+50

SAN MMSD T CUC G CATV

STOP

REMOVE

4-4

REMOVE AHEAD REMOVE 4-3

REMOVE AHEAD REMOVE 4-2

SCALE, FEET 0 30

SHEET 4 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 122	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

N

S.60th ST.

W. LAKEFIELD DR.

5-1 END SCHOOL ZONE REMOVE

5-2 STOP REMOVE

5-3 NO PARKING BUS STOP REMOVE

5-4 STOP REMOVE

5-5 DEAD END REMOVE

5-6 NO PARKING BUS STOP REMOVE

5-7 NO PARKING BUS STOP REMOVE

5-8 END SCHOOL ZONE REMOVE

5-9 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT REMOVE; FINES HIGHER REMOVE

5-10 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT REMOVE; FINES HIGHER REMOVE

SCALE, FEET 0 30

SHEET 5 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 123	E

2

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

6-1 SPEED LIMIT 35 REMOVE

6-2 ONE WAY → REMOVE

6-3 ROUGH ROAD REMOVE; NEXT 3/4 MILE REMOVE

6-4 NO PARKING BUS STOP ← REMOVE

6-5 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT REMOVE; FINES HIGHER REMOVE

S.60th ST.

W. OKLAHOMA AVE.

PROJECT END

PROJECT START

BUS STOP

NO PARKING ANY TIME ← REMOVE 6-9

NO PARKING BUS STOP ↔ REMOVE 6-8

END SCHOOL ZONE REMOVE 6-7

SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT REMOVE 6-6; FINES HIGHER REMOVE 6-6

SCALE, FEET 0 30

SHEET 6 OF 13

PROJECT NO: 2415–00–71	HWY: N. 60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 124	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

N

7-1

REMOVE

AHEAD

REMOVE

S.60th ST.

W. BENNETT AVE.

SPEED LIMIT 35

REMOVE

END SCHOOL ZONE

REMOVE

7-5

ROUGH ROAD

REMOVE

NEXT 1/2 MILE

REMOVE

7-4

REMOVE

AHEAD

REMOVE

7-3

STOP

REMOVE

7-2

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

SCALE, FEET 0 30

SHEET 7 OF 13

PROJECT NO: 2415–00–71	HWY: N. 60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 125	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

N

2

S.60th ST.

REMOVE
AHEAD
REMOVE
8-2

REMOVE
AHEAD
REMOVE
8-1

SCALE, FEET 0 30

SHEET 8 OF 13

PROJECT NO: 2415–00–71	HWY: N. 60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 126	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

9-1
STOP
REMOVE

9-2
REMOVE
REMOVE

9-3
REMOVE
REMOVE

9-4
NO PARKING BUS STOP
REMOVE

W. STACK DR.

S.60th ST.

BUS STOP

BUS STOP

138 +50 139 +50 140 +50 141 +50 142

SAN CUC G TELES FO WAV MH FLAG 115

9-7
NO PARKING BUS STOP
REMOVE

9-6
REMOVE
REMOVE

9-5
REMOVE
REMOVE

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

SCALE, FEET 0 30

SHEET 9 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 127	E

2

N

10-1

REMOVE

AHEAD

REMOVE

10-2

REMOVE

AHEAD

REMOVE

10-3

STOP

REMOVE

W. MONTANA AVE.

S.60th ST.

BUS STOP

SAN

CUC

TE&ES

G

+50

143

144

145

146

147

MH

MWV

4025-S3

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

SCALE, FEET 0 30

SHEET 10 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 128	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

N

11-1

NO PARKING BUS STOP

REMOVE

11-2

SPEED LIMIT 35

REMOVE

S.60th ST.

148

149

150

151

+50

SAN

CUC

E

G

TEXES

NO PARKING BETWEEN DRIVEWAYS

REMOVE

11-4

NO PARKING BUS STOP

REMOVE

11-3

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

SCALE, FEET 0 30

SHEET 11 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 129	E

2

N

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

12-1 REMOVE

12-2 REMOVE; 3 TONS OR OVER REMOVE

12-3 REMOVE

12-4 REMOVE

12-5 NO PARKING BUS STOP REMOVE

12-6 SPEED LIMIT 30 REMOVE

S.60th ST.

W. CLEVELAND AVE.

BUS STOP

BUS STOP

152 +50 153 154 +50 155 +50 156 +50

56C 57C

REMOVE 12-12

REMOVE 12-12

REMOVE 12-11

REMOVE 3 TONS OR OVER 12-10

REMOVE 12-9

SPEED LIMIT 30 REMOVE

NO PARKING LOADING ZONE ANY TIME REMOVE 12-8

NO PARKING LOADING ZONE ANY TIME REMOVE 12-7

SCALE, FEET 0 30

SHEET 12 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 130	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

LEGEND

X-X - SIGN REMOVAL NUMBER

- EXISTING SIGN

13-2 ROUGH ROAD REMOVE

13-2 SPEED LIMIT 30 REMOVE

13-2 STOP REMOVE

NEXT 1/2 MILE REMOVE

S.60th ST.

W. KINNICKINNICK RIVER PARKWAY

156 157 158 159 160

+50 +50 +50

SAN WV MH G GV TEMES

SCALE: FEET 0 30

SHEET 13 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 131	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

2

N

1-1

NO PARKING BUS STOP

R7-7L
12" X 18"

PROJECT START

S.60th ST.

101 102 103 104

+50

section line
N.00°39'43"w.

PROJECT START

W.MORGAN AV.

SPEED LIMIT 30

R2-1
24" X 30"

1-3

SPEED LIMIT 30

R2-1
24" X 30"

1-2

LEGEND

(X-X) - PROPOSED SIGN NUMBER

- PROPOSED SIGN

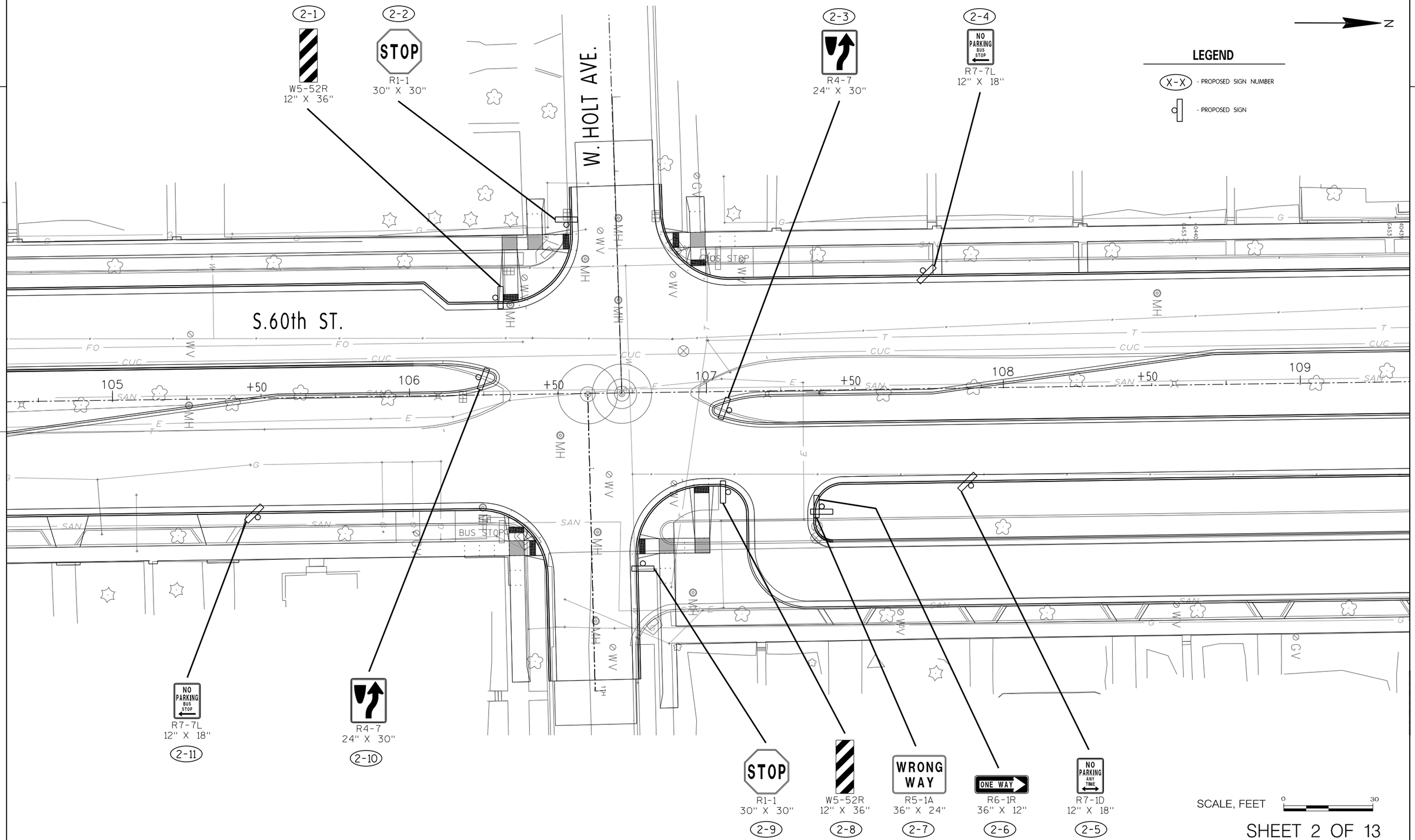
SCALE, FEET 0 30

SHEET 1 OF 13

PROJECT NO: 2415–00–71	HWY: S.60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 132	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42



SHEET 2 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60th St.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 133	E

2

LEGEND

X-X - PROPOSED SIGN NUMBER

- PROPOSED SIGN

N

S.60th ST.

W. OHIO AVE.

3-1 W5-52R 12" X 36"

3-2 STOP R1-1 30" X 30"

3-3 NO PARKING BUS STOP R7-7D 12" X 18"

3-4 ONE WAY R6-1L 36" X 12"

3-5 STOP R1-1 30" X 30"

3-15 NO PARKING ANY TIME R7-1D 12" X 18"

3-14 NO PARKING ANY TIME R7-1D 12" X 18"

3-13 STOP R1-1 30" X 30"

3-12 ONE WAY R6-1L 36" X 12"

3-11 NO PARKING BUS STOP R7-7D 12" X 18"

3-9 3-10 R4-7 24" X 30"

3-8 STOP R1-1 30" X 30"

3-7 W5-52R 12" X 36"

3-6 NO PARKING ANY TIME R7-1D 12" X 18"

SCALE, FEET 0 30

SHEET 3 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 134	E

2

2

LEGEND

(X-X) - PROPOSED SIGN NUMBER

- PROPOSED SIGN

N

S.60th ST.

WRONG WAY
R5-1A
36" X 24"
4-12

ONE WAY
R6-1R
36" X 12"
4-11

NO PARKING ANY TIME
R7-1D
12" X 18"
4-10

STOP
R1-1
30" X 30"
4-9

ONE WAY
R6-1L
36" X 12"
4-8

S1-1
30" X 30"
4-2
4-5

AHEAD
WF16-9P
24" X 12"
4-3
4-6

FINES HIGHER
R2-6P
24" X 18"
4-4
4-7

NO PARKING ANY TIME
R7-1L
12" X 18"
4-1

SCALE, FEET 0 30

SHEET 4 OF 13

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 135	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

5-1
WRONG WAY
R5-1A
36" X 24"

ONE WAY
R6-1R
36" X 12"
5-2

SPEED LIMIT 30
R2-1
24" X 30"
5-3

END SCHOOL ZONE
S5-2
24" X 30"
5-4

W11-2
30" X 30"
5-5

WF16-7L
24" X 12"
5-6

W11-2
30" X 30"
5-7

WF16-7R
24" X 12"
5-8

5-9
NO PARKING ANY TIME
R7-1L
12" X 18"

5-10
R4-7
24" X 30"

N

LEGEND

X-X - PROPOSED SIGN NUMBER

- PROPOSED SIGN

S.60th ST.

SPEED LIMIT 30
R2-1
24" X 30"
5-20

END SCHOOL ZONE
S5-2
24" X 30"
5-21

W11-2
30" X 30"
5-18

WF16-7L
24" X 12"
5-19

W11-2
30" X 30"
5-16

WF16-7R
24" X 12"
5-17

NO PARKING ANY TIME
R7-1R
12" X 18"
5-15

SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT
S4-51
24" X 48"
5-13
5-14

DEAD END
W14-1
30" X 30"
5-12

W. LAKEFIELD DR.

STOP
R1-1
30" X 30"
5-11

SCALE, FEET 0 30

SHEET 5 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 136	E

2

N

6-1
ONE WAY
R6-2R
24" X 30"

6-2
RIGHT LANE MUST TURN RIGHT EXCEPT BUSES
R3-7R
30" X 30"

6-3
NO PARKING BUS STOP
R7-7L
12" X 18"

S.60th ST.

W. OKLAHOMA AVE.

PROJECT END

PROJECT START

BUS STOP

124 125 126 127 128

+50

LEGEND

X-X - PROPOSED SIGN NUMBER

- PROPOSED SIGN

NO PARKING BUS STOP
R7-7L
12" X 18"
6-5

RIGHT LANE MUST TURN RIGHT EXCEPT BUSES
R3-7R
30" X 30"
6-4

SCALE, FEET 0 30

SHEET 6 OF 13

PROJECT NO: 2415–00–71	HWY: N. 60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 137	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

S.60th ST.

W. BENNETT AVE.

SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT
S4-51
24" X 48"
7-1
7-2

7-3
ONLY
R3-50R
30" X 36"

7-4
W12-1D
24" X 24"

S1-1
30" X 30"
7-5

AHEAD
WF16-9P
24" X 12"
7-6

FINES HIGHER
R2-6P
24" X 18"
7-7

S1-1
30" X 30"
7-8

AHEAD
WF16-9P
24" X 12"
7-9

FINES HIGHER
R2-6P
24" X 18"
7-10

R3-2
24" X 24"
7-20

DO NOT ENTER
R5-1
30" X 30"
7-19

R9-3A
24" X 24"
7-17

USE CROSSWALK
R9-3B
18" X 12"
7-18

STOP
R1-1
30" X 30"
7-16

DO NOT ENTER
R5-1
30" X 30"
7-15

SPEED LIMIT 30
R2-1
24" X 30"
7-13

END SCHOOL ZONE
S5-2
24" X 30"
7-14

SPEED LIMIT 30
R2-1
24" X 30"
7-11

END SCHOOL ZONE
S5-2
24" X 30"
7-12

LEGEND

(X-X) - PROPOSED SIGN NUMBER

- PROPOSED SIGN

SCALE, FEET 0 30

SHEET 7 OF 13

PROJECT NO: 2415-00-71	HWY: N. 60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 138	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

LEGEND

X-X - PROPOSED SIGN NUMBER

- PROPOSED SIGN

N

SPEED LIMIT 30 — R2-1, 24" X 30" — 8-1, 8-3

END SCHOOL ZONE — S5-2, 24" X 30" — 8-2, 8-4

S.60th ST.

SAN CUC TE&ES G MH

133 +50 134 +50 135 +50 136 +50 137 +50

S1-1, 30" X 30" — 8-7, 8-10

AHEAD — WF16-9P, 24" X 12" — 8-8, 8-11

FINES HIGHER — R2-6P, 24" X 18" — 8-9, 8-12

SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT — S4-51, 24" X 48" — 8-5, 8-6

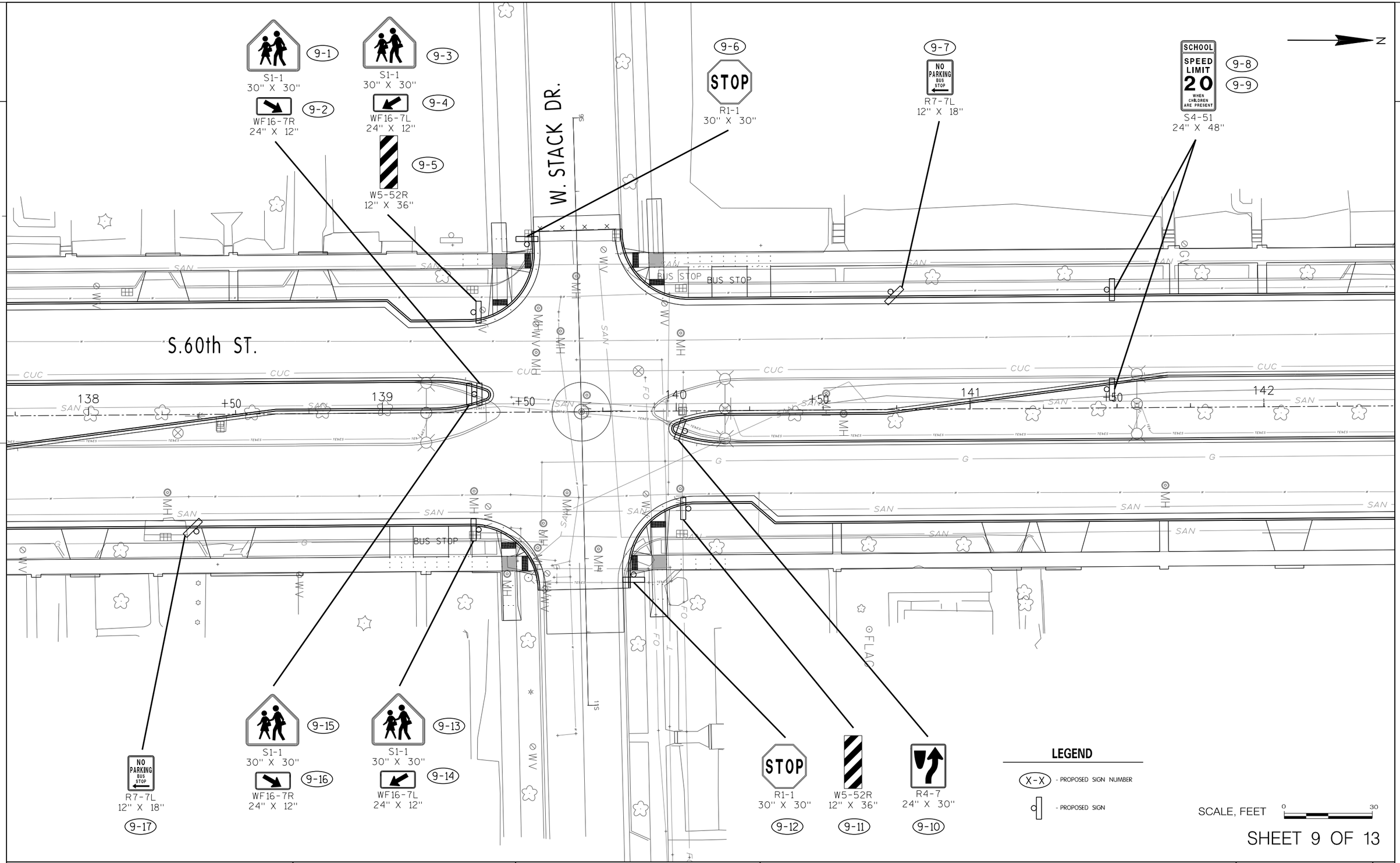
SCALE, FEET 0 30

SHEET 8 OF 13

PROJECT NO: 2415–00–71	HWY: N. 60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 139	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42



SHEET 9 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 140	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

LEGEND

X-X - PROPOSED SIGN NUMBER

- PROPOSED SIGN

S1-1
30" X 30"
10-1
10-4

AHEAD
WF16-9P
24" X 12"
10-2
10-5

FINES HIGHER
R2-6P
24" X 18"
10-3
10-6

10-7
W5-52R
12" X 36"

10-8
STOP
R1-1
30" X 30"

10-9
R9-3A
24" X 24"

USE CROSSWALK
R9-3B
18" X 12"
10-10

N

W. MONTANA AVE.

S.60th ST.

BUS STOP

SPEED LIMIT 30
R2-1
24" X 30"
10-15
10-17

END SCHOOL ZONE
S5-2
24" X 30"
10-16
10-18

NO STOPPING OR STANDING
R7-4L
18" X 24"
10-14

W5-52R
12" X 36"
10-13

R4-7
24" X 30"
10-12

NO STOPPING OR STANDING
R7-4R
18" X 24"
10-11

SCALE, FEET 0 30

SHEET 10 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 141	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

11-1

NO PARKING BUS STOP

R7-7L
12" X 18"

SPEED LIMIT 30

11-2

R2-1
24" X 30"

SPEED LIMIT 30

11-3

R2-1
24" X 30"

S.60th ST.

148 149 150 151

+50 +50 +50 +50

SAN CUC E TEXES G MH

NO PARKING BETWEEN DRIVEWAYS

R7-52D
12" X 18"

11-5

NO PARKING BUS STOP

R7-7L
12" X 18"

11-4

LEGEND

X-X - PROPOSED SIGN NUMBER

- PROPOSED SIGN

SCALE, FEET 0 30

SHEET 11 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 142	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

N

(12-1) R10-4B 9" X 12"

(12-2) R5-2 24" X 24"

(12-3) 3 TONS OR OVER R5-2A 24" X 12"

(12-4) R10-4B 9" X 12"

(12-5) R4-7 24" X 30"

(12-6) NO PARKING BUS STOP R7-7L 12" X 18"

(12-7) SPEED LIMIT 30 R2-1 24" X 30"

S.60th ST.

W. CLEVELAND AVE.

BUS STOP

BUS STOP

(12-15) R4-7 24" X 30"

(12-14) R10-4B 9" X 12"

(12-12) R5-2 24" X 24"

(12-13) 3 TONS OR OVER R5-2A 24" X 12"

(12-11) R10-4B 9" X 12"

(12-10) NO PARKING LOADING ZONE ANY TIME R7-6L 12" X 18"

(12-9) SPEED LIMIT 30 R2-1 24" X 30"

(12-8) NO PARKING LOADING ZONE ANY TIME R7-6R 12" X 18"

LEGEND

(X-X) - PROPOSED SIGN NUMBER

- PROPOSED SIGN

SCALE, FEET 0 30

SHEET 12 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 143	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

LEGEND

X-X - PROPOSED SIGN NUMBER

- PROPOSED SIGN

13-3

SPEED LIMIT 30

13-1

13-2

R2-1
24" X 30"

STOP

R1-1
30" X 30"

S.60th ST.

156 157 158 159 160

+50 +50 +50

SAN

W. KINNICKINNICK RIVER PARKWAY

R4-7
24" X 30"

13-4

SCALE: FEET 0 30

SHEET 13 OF 13

PROJECT NO: 2415–00–71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 144	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 6-INCH (WHITE)
- (C) MARKING SYMBOL EPOXY (BIKE LANE)
- (D) MARKING ARROW EPOXY (BIKE LANE)
- (E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
- (F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
- (G) MARKING LINE EPOXY 8-INCH (WHITE)
- (H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
- (I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTEF
- (J) MARKING WORD GROOVED PREFORMED PLASTIC
- (K) MARKING ARROW GROOVED PREFORMED PLASTIC
- (L) MARKING ISLAND NOSE EPOXY (YELLOW)
- (M) MARKING CURB EPOXY (YELLOW)
- (O) SEE PLOWABLE ISLAND NOSE DETAIL

N

35"MO"

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 100+51.31

36"MO"

W. MORGAN AVENUE

37"MO"

38"MO"

BEGIN PROJECT
I.D. 2415-00-71
STA 100+83.12

S. 60TH STREET

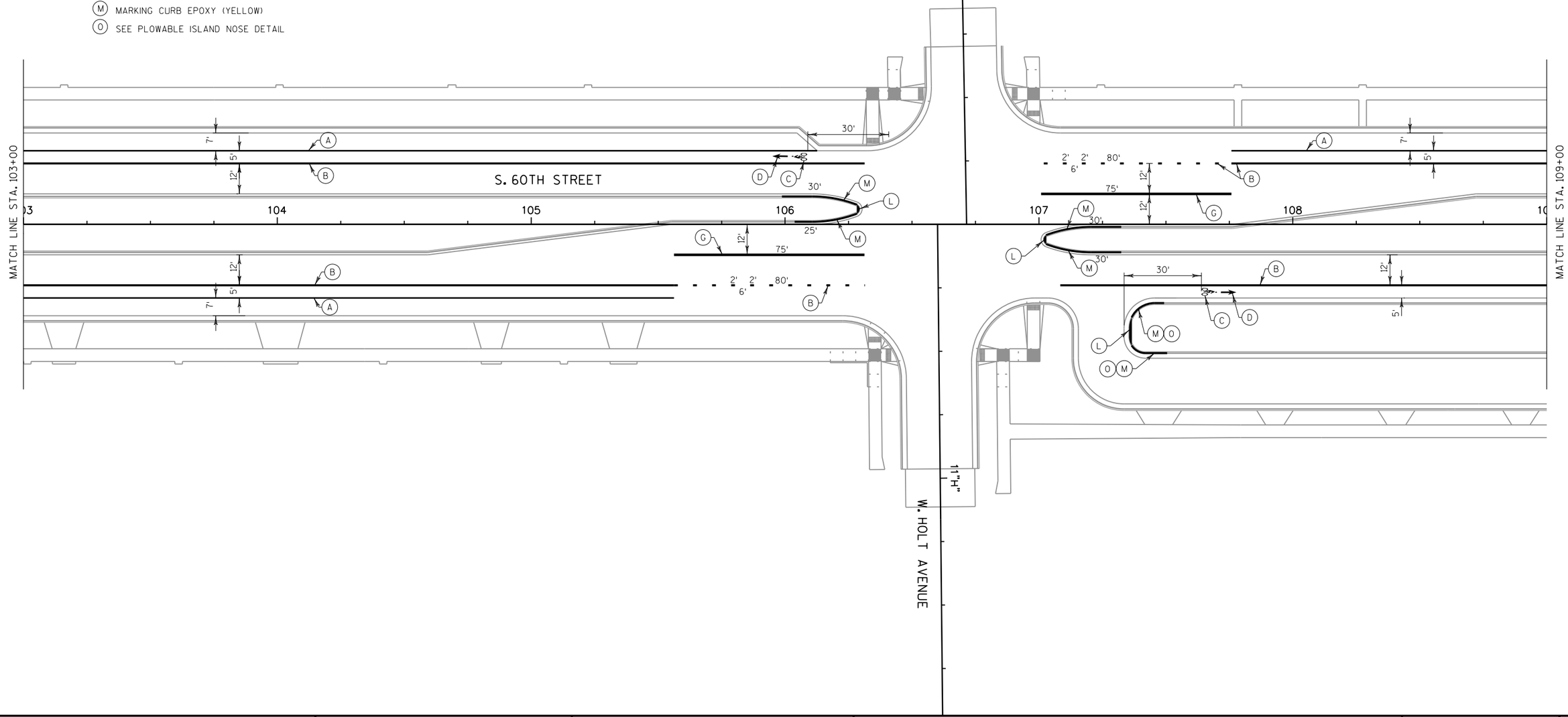
MATCH LINE STA. 103+00

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVEMENT MARKING - S. 60TH STREET	SHEET 145	E

2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 6-INCH (WHITE)
- (C) MARKING SYMBOL EPOXY (BIKE LANE)
- (D) MARKING ARROW EPOXY (BIKE LANE)
- (E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
- (F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
- (G) MARKING LINE EPOXY 8-INCH (WHITE)
- (H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
- (I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN 24
- (J) MARKING WORD GROOVED PREFORMED PLASTIC
- (K) MARKING ARROW GROOVED PREFORMED PLASTIC
- (L) MARKING ISLAND NOSE EPOXY (YELLOW)
- (M) MARKING CURB EPOXY (YELLOW)
- (O) SEE PLOWABLE ISLAND NOSE DETAIL



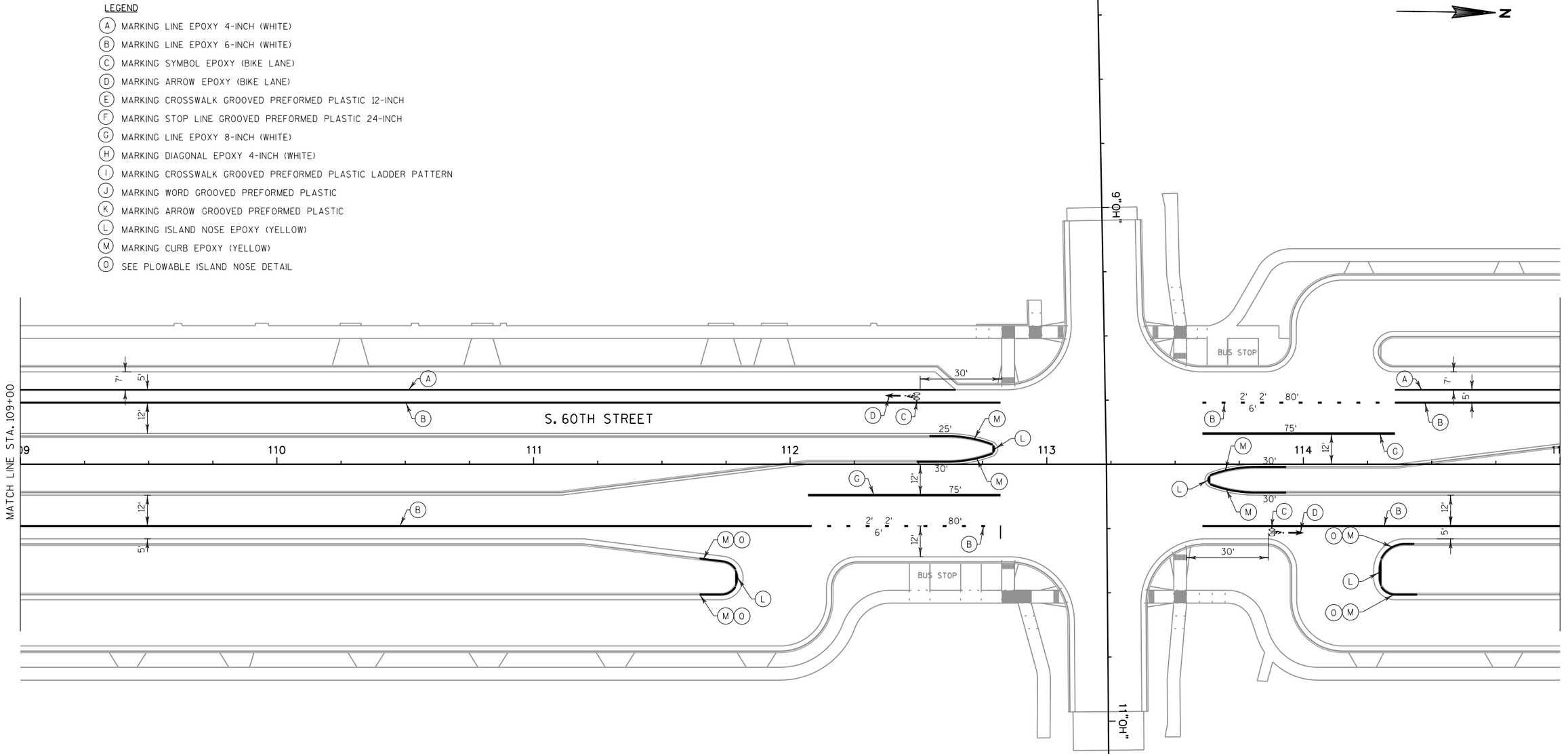
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVEMENT MARKING - S. 60TH STREET	SHEET 146	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\024502_pm.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 6-INCH (WHITE)
- (C) MARKING SYMBOL EPOXY (BIKE LANE)
- (D) MARKING ARROW EPOXY (BIKE LANE)
- (E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
- (F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
- (G) MARKING LINE EPOXY 8-INCH (WHITE)
- (H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
- (I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN
- (J) MARKING WORD GROOVED PREFORMED PLASTIC
- (K) MARKING ARROW GROOVED PREFORMED PLASTIC
- (L) MARKING ISLAND NOSE EPOXY (YELLOW)
- (M) MARKING CURB EPOXY (YELLOW)
- (O) SEE PLOWABLE ISLAND NOSE DETAIL



2

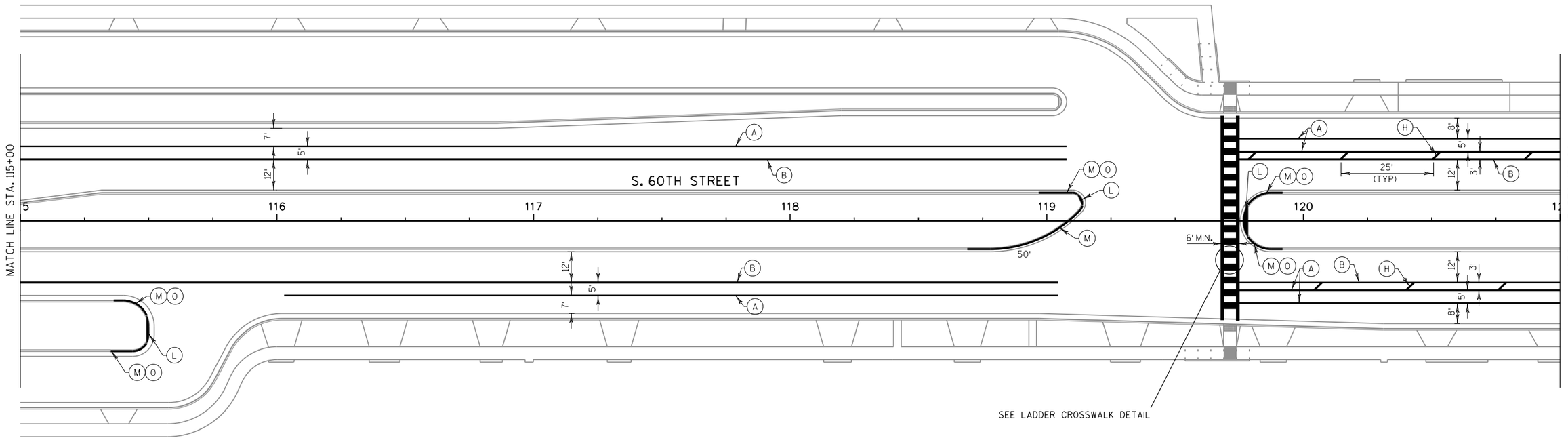
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVEMENT MARKING - S. 60TH STREET	SHEET 147	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\024503_pm.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

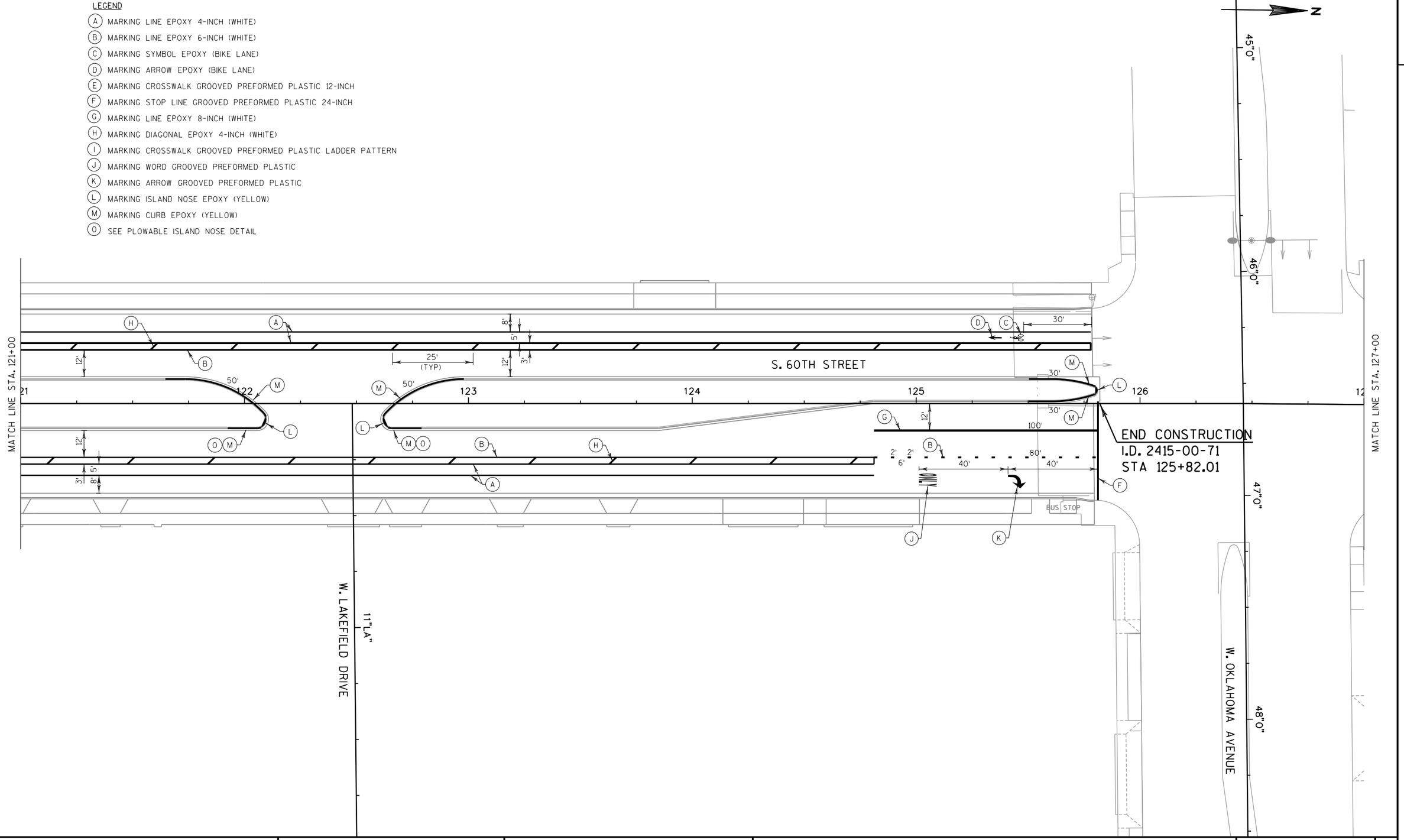
(A) MARKING LINE EPOXY 4-INCH (WHITE)
(B) MARKING LINE EPOXY 6-INCH (WHITE)
(C) MARKING SYMBOL EPOXY (BIKE LANE)
(D) MARKING ARROW EPOXY (BIKE LANE)
(E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
(F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
(G) MARKING LINE EPOXY 8-INCH (WHITE)
(H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
(I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN 24-INCH
(J) MARKING WORD GROOVED PREFORMED PLASTIC
(K) MARKING ARROW GROOVED PREFORMED PLASTIC
(L) MARKING ISLAND NOSE EPOXY (YELLOW)
(M) MARKING CURB EPOXY (YELLOW)
(O) SEE PLOWABLE ISLAND NOSE DETAIL



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVEMENT MARKING - S. 60TH STREET	SHEET 148	E

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 6-INCH (WHITE)
- (C) MARKING SYMBOL EPOXY (BIKE LANE)
- (D) MARKING ARROW EPOXY (BIKE LANE)
- (E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
- (F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
- (G) MARKING LINE EPOXY 8-INCH (WHITE)
- (H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
- (I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN
- (J) MARKING WORD GROOVED PREFORMED PLASTIC
- (K) MARKING ARROW GROOVED PREFORMED PLASTIC
- (L) MARKING ISLAND NOSE EPOXY (YELLOW)
- (M) MARKING CURB EPOXY (YELLOW)
- (O) SEE PLOWABLE ISLAND NOSE DETAIL

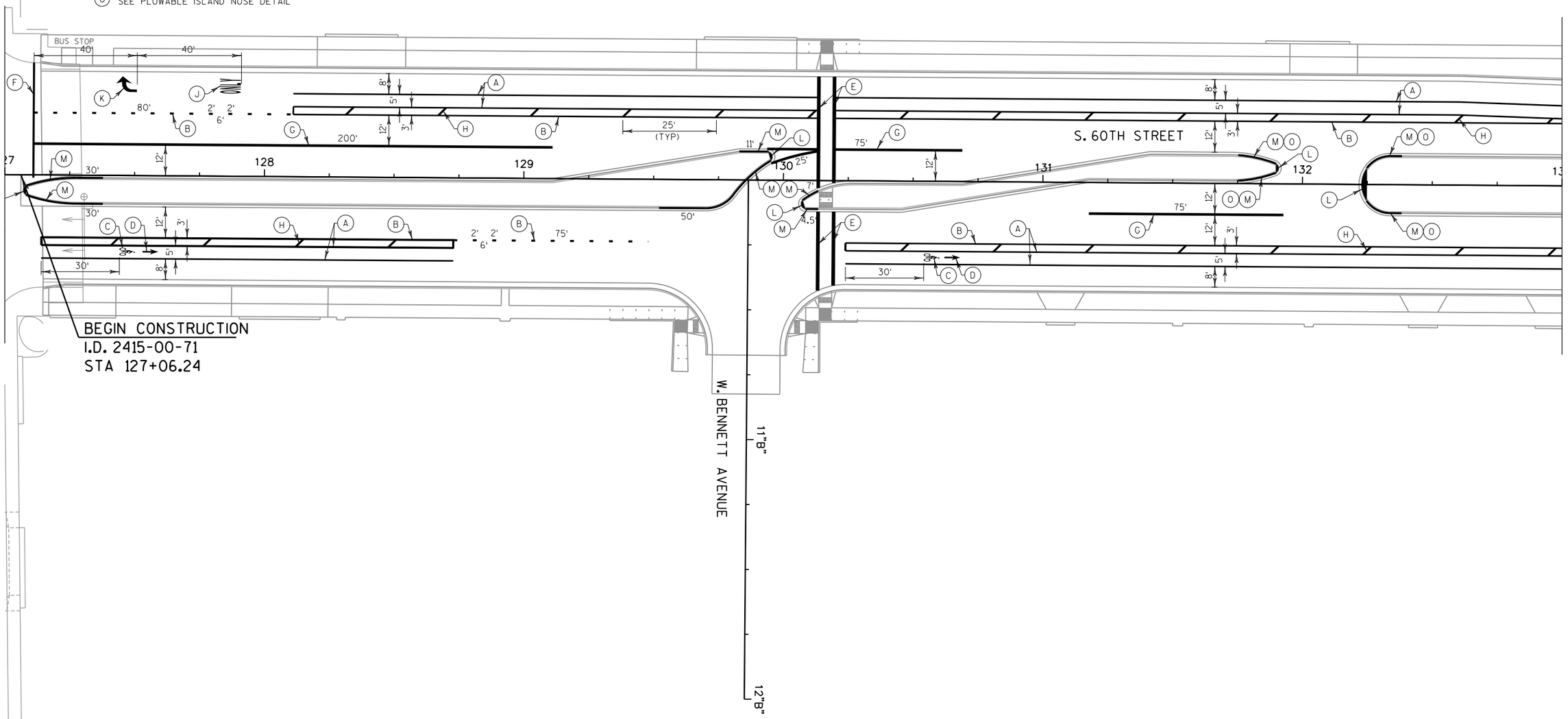


PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVEMENT MARKING - S. 60TH STREET	SHEET 149 E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\024505_pm.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 6-INCH (WHITE)
- (C) MARKING SYMBOL EPOXY (BIKE LANE)
- (D) MARKING ARROW EPOXY (BIKE LANE)
- (E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
- (F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
- (G) MARKING LINE EPOXY 8-INCH (WHITE)
- (H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
- (I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN
- (J) MARKING WORD GROOVED PREFORMED PLASTIC
- (K) MARKING ARROW GROOVED PREFORMED PLASTIC
- (L) MARKING ISLAND NOSE EPOXY (YELLOW)
- (M) MARKING CURB EPOXY (YELLOW)
- (O) SEE PLOWABLE ISLAND NOSE DETAIL



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVEMENT MARKING - S. 60TH STREET	SHEET 150	E

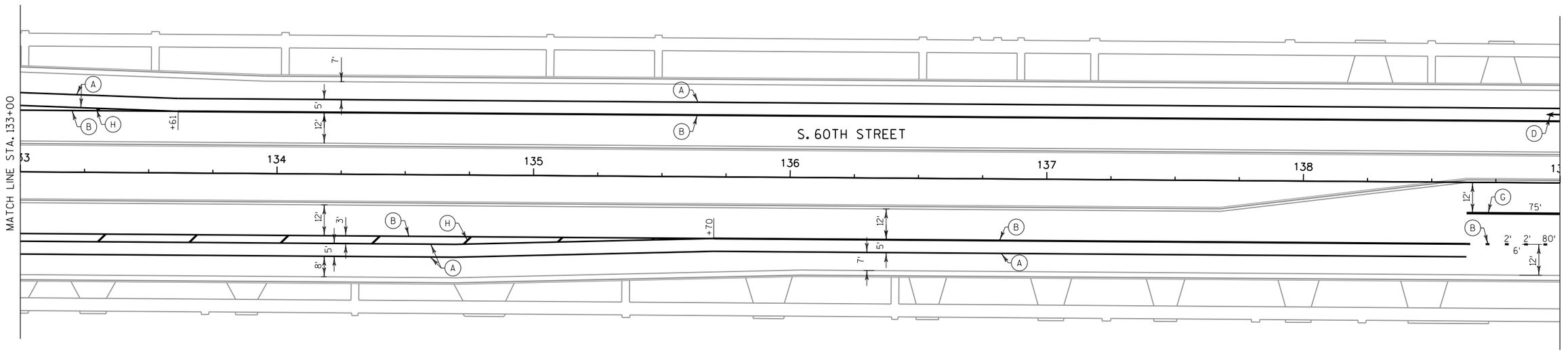
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WISDOT/CADDS SHEET 42

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 6-INCH (WHITE)
- (C) MARKING SYMBOL EPOXY (BIKE LANE)
- (D) MARKING ARROW EPOXY (BIKE LANE)
- (E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
- (F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
- (G) MARKING LINE EPOXY 8-INCH (WHITE)
- (H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
- (I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTEF
- (J) MARKING WORD GROOVED PREFORMED PLASTIC
- (K) MARKING ARROW GROOVED PREFORMED PLASTIC
- (L) MARKING ISLAND NOSE EPOXY (YELLOW)
- (M) MARKING CURB EPOXY (YELLOW)
- (O) SEE PLOWABLE ISLAND NOSE DETAIL

N



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVEMENT MARKING - S. 60TH STREET	SHEET 151	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\024507_pm.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

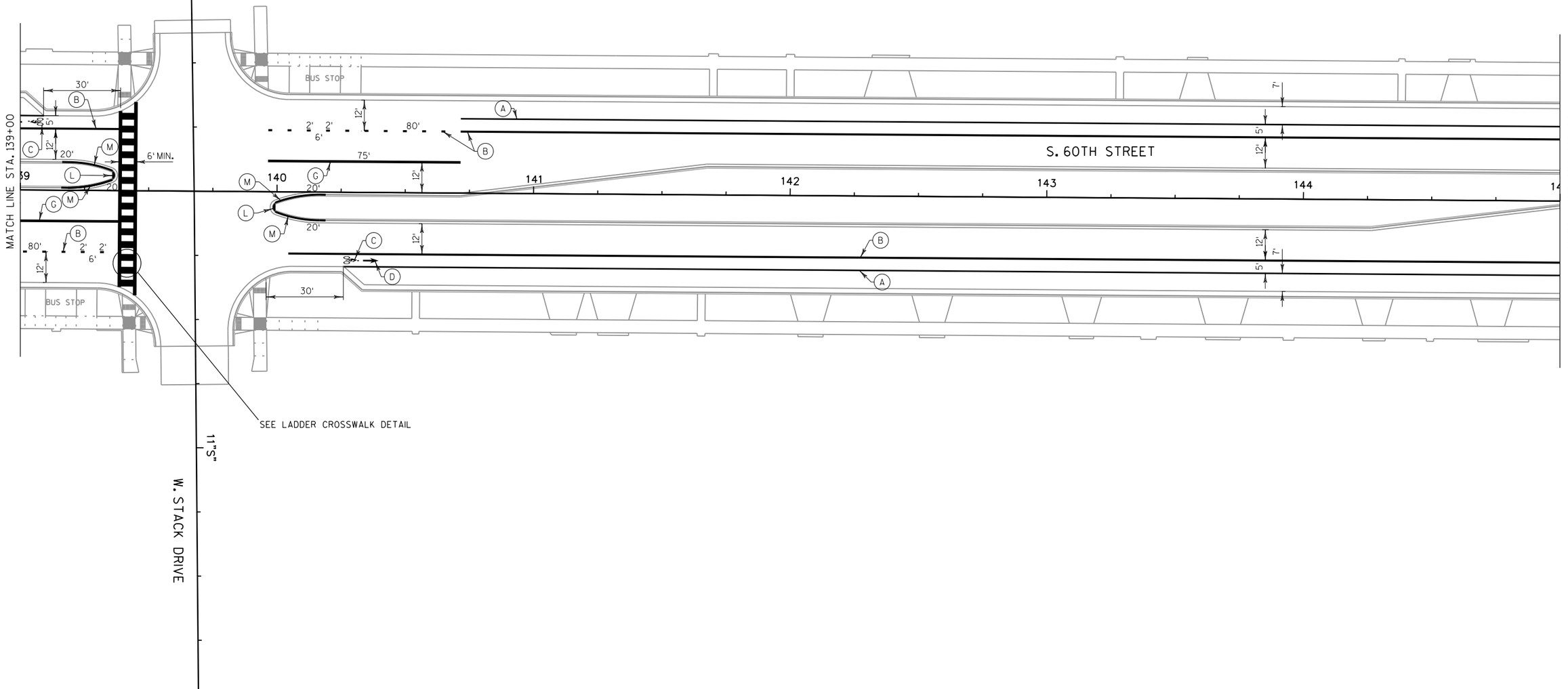
2

2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 6-INCH (WHITE)
- (C) MARKING SYMBOL EPOXY (BIKE LANE)
- (D) MARKING ARROW EPOXY (BIKE LANE)
- (E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
- (F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
- (G) MARKING LINE EPOXY 8-INCH (WHITE)
- (H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
- (I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN 24-INCH
- (J) MARKING WORD GROOVED PREFORMED PLASTIC
- (K) MARKING ARROW GROOVED PREFORMED PLASTIC
- (L) MARKING ISLAND NOSE EPOXY (YELLOW)
- (M) MARKING CURB EPOXY (YELLOW)
- (O) SEE PLOWABLE ISLAND NOSE DETAIL

N



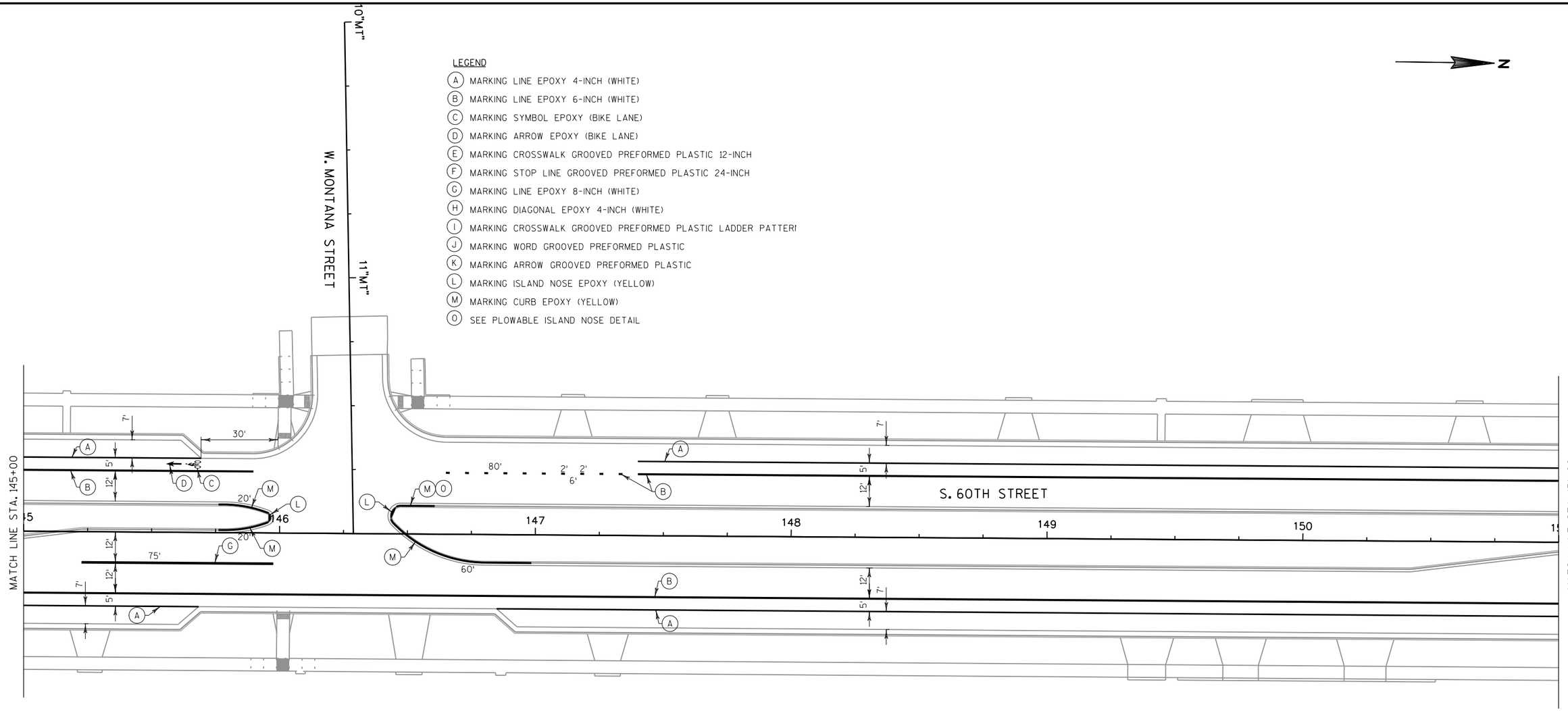
PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVEMENT MARKING - S. 60TH STREET	SHEET 152	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\024508_pm.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

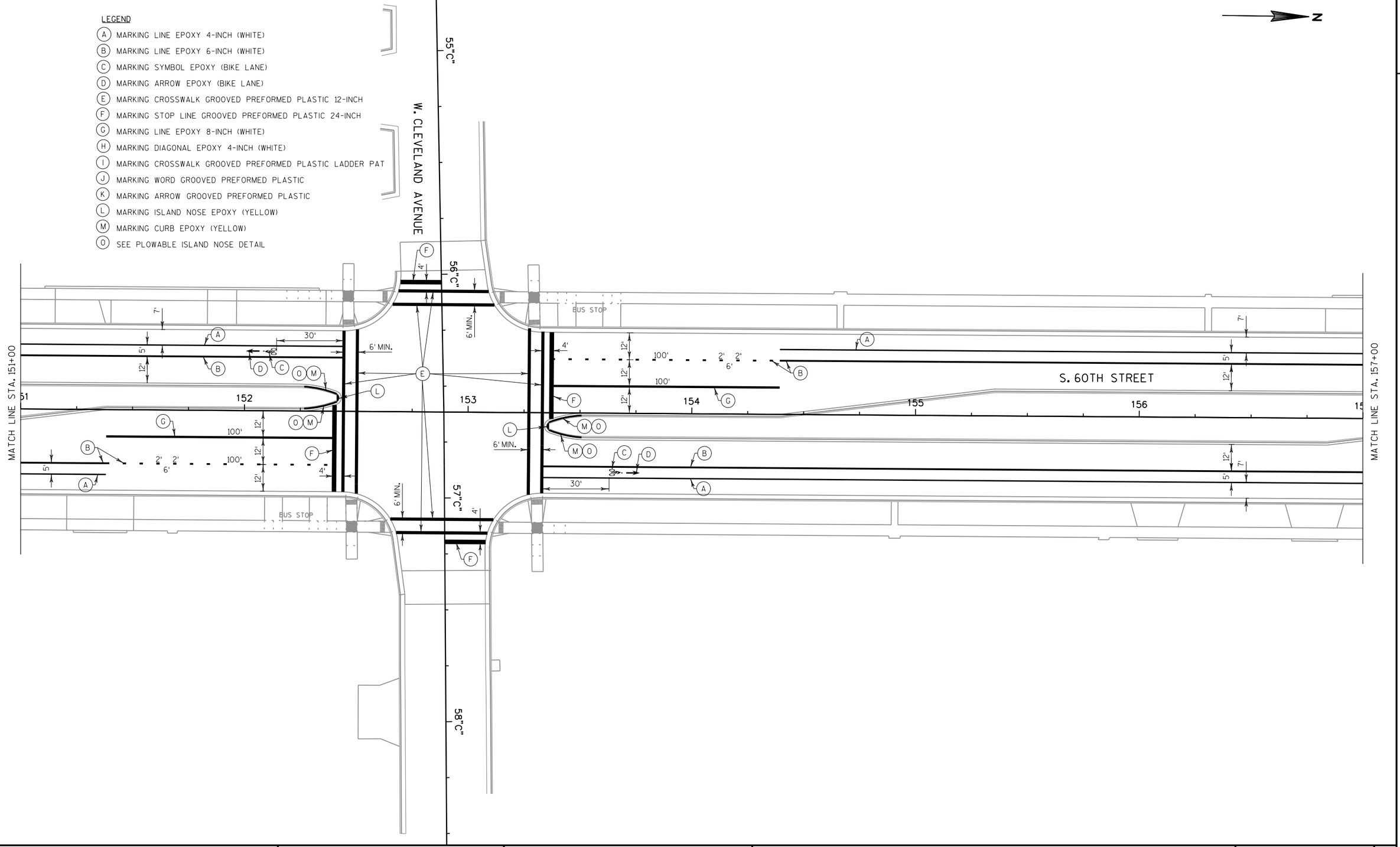
LEGEND

- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 6-INCH (WHITE)
- (C) MARKING SYMBOL EPOXY (BIKE LANE)
- (D) MARKING ARROW EPOXY (BIKE LANE)
- (E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
- (F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
- (G) MARKING LINE EPOXY 8-INCH (WHITE)
- (H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
- (I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN
- (J) MARKING WORD GROOVED PREFORMED PLASTIC
- (K) MARKING ARROW GROOVED PREFORMED PLASTIC
- (L) MARKING ISLAND NOSE EPOXY (YELLOW)
- (M) MARKING CURB EPOXY (YELLOW)
- (O) SEE PLOWABLE ISLAND NOSE DETAIL



LEGEND

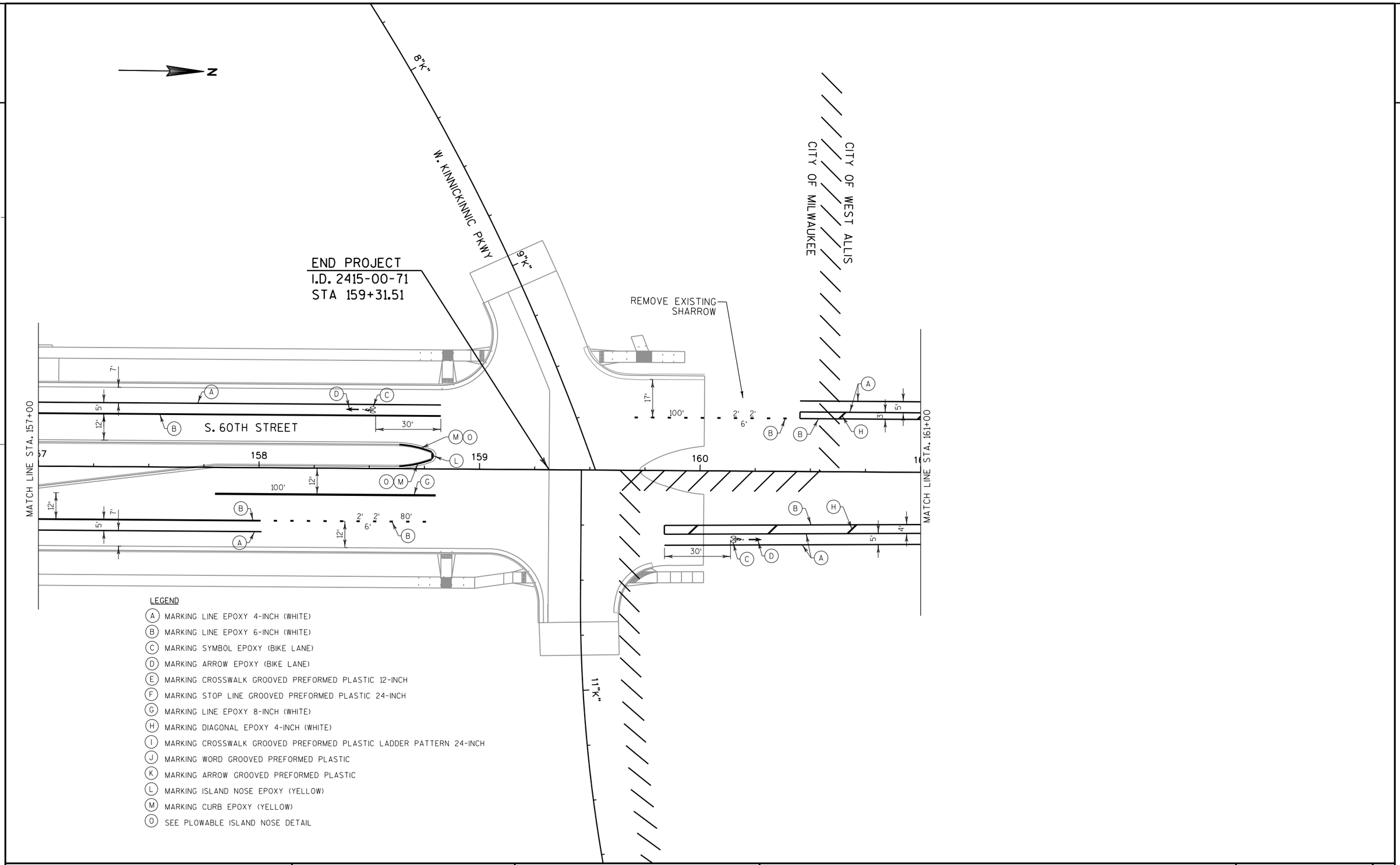
- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 6-INCH (WHITE)
- (C) MARKING SYMBOL EPOXY (BIKE LANE)
- (D) MARKING ARROW EPOXY (BIKE LANE)
- (E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
- (F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
- (G) MARKING LINE EPOXY 8-INCH (WHITE)
- (H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
- (I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PAT
- (J) MARKING WORD GROOVED PREFORMED PLASTIC
- (K) MARKING ARROW GROOVED PREFORMED PLASTIC
- (L) MARKING ISLAND NOSE EPOXY (YELLOW)
- (M) MARKING CURB EPOXY (YELLOW)
- (O) SEE PLOWABLE ISLAND NOSE DETAIL



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVEMENT MARKING - S. 60TH STREET	SHEET 154	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\024510_pm.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:40

2



LEGEND

- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 6-INCH (WHITE)
- (C) MARKING SYMBOL EPOXY (BIKE LANE)
- (D) MARKING ARROW EPOXY (BIKE LANE)
- (E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
- (F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
- (G) MARKING LINE EPOXY 8-INCH (WHITE)
- (H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
- (I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN 24-INCH
- (J) MARKING WORD GROOVED PREFORMED PLASTIC
- (K) MARKING ARROW GROOVED PREFORMED PLASTIC
- (L) MARKING ISLAND NOSE EPOXY (YELLOW)
- (M) MARKING CURB EPOXY (YELLOW)
- (O) SEE PLOWABLE ISLAND NOSE DETAIL

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVEMENT MARKING - S. 60TH STREET	SHEET 155	E

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 6-INCH (WHITE)
- (C) MARKING SYMBOL EPOXY (BIKE LANE)
- (D) MARKING ARROW EPOXY (BIKE LANE)
- (E) MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH
- (F) MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH
- (G) MARKING LINE EPOXY 8-INCH (WHITE)
- (H) MARKING DIAGONAL EPOXY 4-INCH (WHITE)
- (I) MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN ;
- (J) MARKING WORD GROOVED PREFORMED PLASTIC
- (K) MARKING ARROW GROOVED PREFORMED PLASTIC
- (L) MARKING ISLAND NOSE EPOXY (YELLOW)
- (M) MARKING CURB EPOXY (YELLOW)
- (O) SEE PLOWABLE ISLAND NOSE DETAIL

N

W. ARTHUR AVENUE

END CONSTRUCTION
I.D. 2415-00-71
STA 165+81.82

REMOVE EXISTING SHARROW

REMOVE EXISTING SHARROW

S. 60TH STREET

MATCH LINE STA. 161+00

161 162 163 164 165 166 167

12' 3' 5' 9'

12' 4' 5' 9'

30'

75'

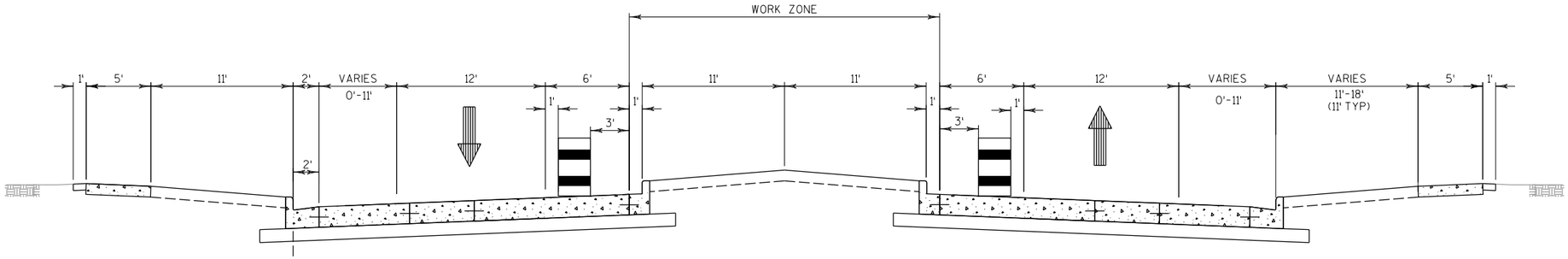
A B C D H

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PAVEMENT MARKING - S. 60TH STREET	SHEET 156	E

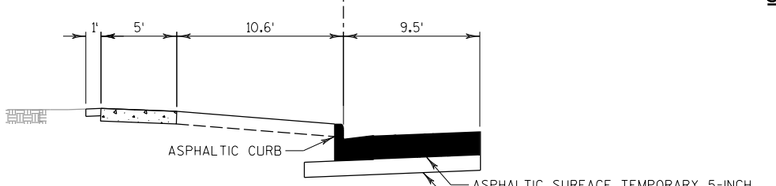
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WISDOT/CADDS SHEET 42

2

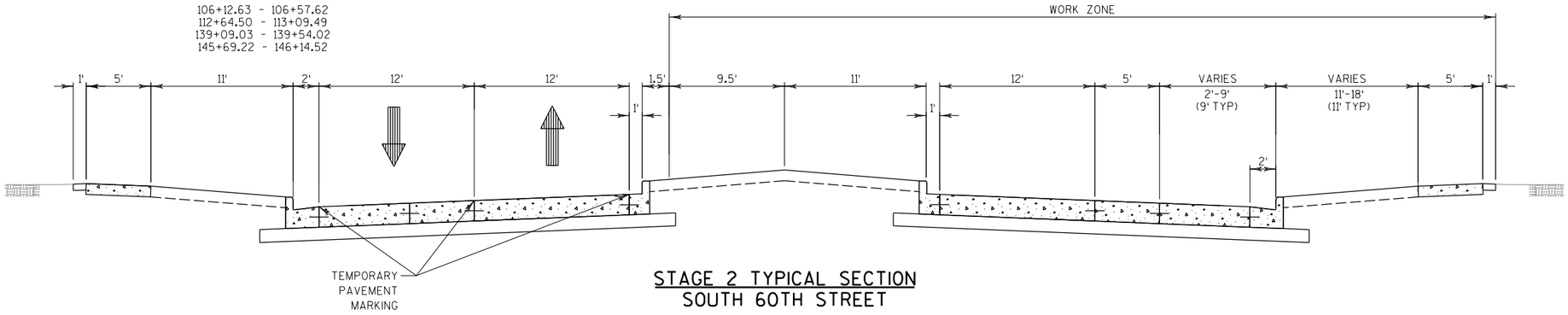


STAGE 3 TYPICAL SECTION
SOUTH 60TH STREET

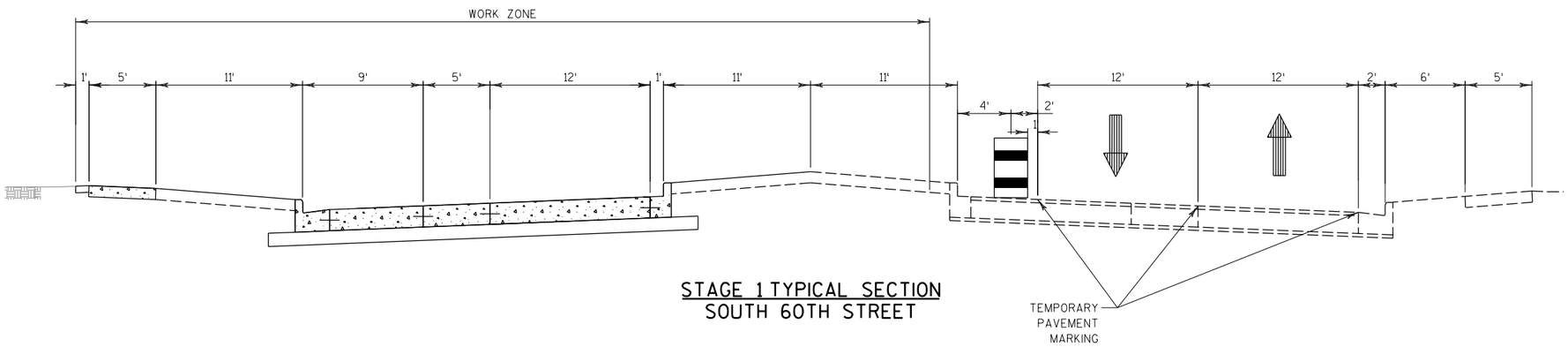


TEMPORARY PAVEMENT

106+12.63 - 106+57.62
112+64.50 - 113+09.49
139+09.03 - 139+54.02
145+69.22 - 146+14.52



STAGE 2 TYPICAL SECTION
SOUTH 60TH STREET



STAGE 1 TYPICAL SECTION
SOUTH 60TH STREET

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING TYPICALS	SHEET 157	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\026000_ts_staging.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:20

LEGEND

- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

STAGE 1:

REMOVE EXISTING MEDIAN AND CONSTRUCT TEMPORARY PAVEMENT.

TRAFFIC - ONE LANE IN NB & SB DIRECTION.
CLOSE INSIDE LANE AND SHIFT TRAFFIC TO THE OUTSIDE. SEE TYPICAL SECTION.

MAINTAIN PEDESTRIAN ACCESS PER "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" SDD FOR TRAFFIC CONTROL WHILE SIDEWALK REMAINS CLOSED FOR REPLACEMENT.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS FOR 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR PLACEMENT OF ADVANCED SIGNS.

N

W. MORGAN AVENUE

35"MO"

40"MO"

W. HOLT AVENUE

8"H"

12"H"

W. OHIO AVENUE

8"OH"

12"OH"

S. 60TH STREET

W. LAKEFIELD DRIVE (PRIVATE DRIVE)

12"LA"

W. OKLAHOMA AVENUE

45"O"

50"O"

W. BENNETT AVENUE

12"B"

MATCHLINE 130+50

105 110 115 120 125 130

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

END CONSTRUCTION
I.D. 2415-00-71
STA. 125+82.01

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA. 127+06.24

N

MATCHLINE 130+50

W. STACK DRIVE

8"S"

12"S"

W. MONTANA STREET

10"MT"

S. 60TH STREET

W. CLEVELAND AVENUE

55"C"

60"C"

5"K"

W. KINNICKINNIC PKWY

14"K"

135 140 145 150 155 160

TEMPORARY SIGNALS

END CONSTRUCTION
I.D. 2415-00-71
STA. 160+01.78

END PROJECT
I.D. 2415-00-71
STA. 159+31.51

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET OVERVIEW STAGE 1A	SHEET 158	E

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

TRAFFIC CONTROL ARROW BOARD

TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN

TRAFFIC CONTROL TEMPORARY SIGN POST

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES

DIRECTION OF TRAFFIC

WORK AREA

CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS

TEMPORARY PAVEMENT PLACED DURING STAGE

TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

XXXXX SAWING CONCRETE

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

34"MO"

36"MO"

38"MO"

40"MO"

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

W01-4R

RIGHT LANE MUST TURN RIGHT R3-7R 30" X 30"

END ROAD WORK G20-2A 48" X 24"

W. MORGAN AVENUE

S. 60TH STREET

102

104

25'

250'

50'

50'

MATCH LINE STA. 106+00

ROAD WORK AHEAD W20-1

2

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1A	SHEET 159 E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

8"H"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

80"OH"

MATCH LINE STA. 106+00

106 108 110 112 114 116 118 120

50'

50'

S. 60TH STREET

MATCH LINE STA. 121+00

12"H"

W. HOLT AVENUE

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

12"OH"

W. OHIO AVENUE

ROAD WORK AHEAD W20-1

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

TRAFFIC CONTROL ARROW BOARD

TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN

TRAFFIC CONTROL TEMPORARY SIGN POST

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES

DIRECTION OF TRAFFIC

WORK AREA

CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS

TEMPORARY PAVEMENT PLACED DURING STAGE

TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

XXXXX SAWING CONCRETE

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1A	SHEET 160	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

44"0"

END CONSTRUCTION
I.D. 2415-00-71
STA 125+82.01

46"0"

MATCH LINE STA. 121+00

MATCH LINE STA. 136+00

50' 250' 25' 122 124 126 128 130 132 134

S. 60TH STREET

END ROAD WORK G20-2A 48" X 24"

RIGHT TURN ONLY R3-53R 24" X 30"

12"LA"

W. LAKEFIELD DRIVE

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

48"0"

W. OKLAHOMA AVENUE

50"0"

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

RIGHT TURN ONLY R3-53R 24" X 30"

12"B"

W. BENNETT AVENUE

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

TRAFFIC CONTROL ARROW BOARD

TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIG

TRAFFIC CONTROL TEMPORARY SIGN POST

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES

DIRECTION OF TRAFFIC

WORK AREA

CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS

TEMPORARY PAVEMENT PLACED DURING STAGE

TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

XXXXX SAWING CONCRETE

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1A	SHEET 161	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

W04-2L

LEFT LANE CLOSED AHEAD W20-5

W. STACK DRIVE

8"S"

12"S"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

W. MONTANA STREET

10"MT"

12"MT"

S. 60TH STREET

LEFT LANE CLOSED AHEAD W20-5

W04-2L

250'

MATCH LINE STA. 136+00

MATCH LINE STA. 151+00

136 138 140 142 144 146 148 150

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

TRAFFIC CONTROL ARROW BOARD

TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN

TRAFFIC CONTROL TEMPORARY SIGN POST

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES

DIRECTION OF TRAFFIC

WORK AREA

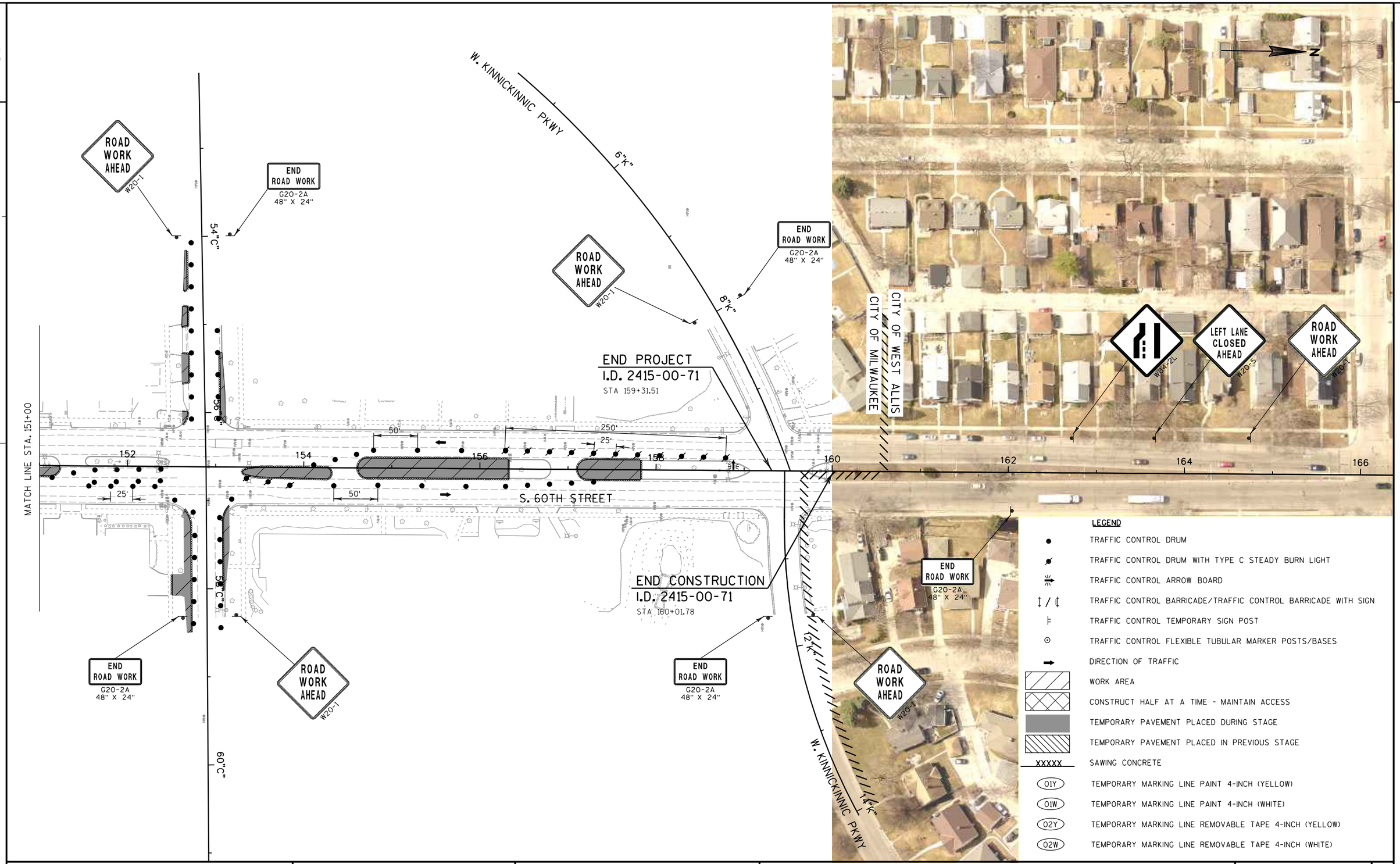
CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS

TEMPORARY PAVEMENT PLACED DURING STAGE

TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

XXXXX SAWING CONCRETE

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1A	SHEET 162	E



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1A	SHEET 163	E

LEGEND

- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

STAGE 1:

CONSTRUCT SB LANES FROM W MORGAN AVE TO KINNICKINNIC PARKWAY.

CONSTRUCT TEMPORARY PAVEMENT IN THE AREAS OF PROPOSED PEDESTRIAN CURB EXTENSIONS.

TRAFFIC - ONE LANE IN EACH DIRECTION ON THE NB LANES. SEE TYPICAL SECTION.

MAINTAIN PEDESTRIAN ACCESS PER "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" SDD FOR TRAFFIC CONTROL WHILE SIDEWALK REMAINS CLOSED FOR REPLACEMENT.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS FOR 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR PLACEMENT OF ADVANCED SIGNS.

N

W. MORGAN AVENUE
40"MO"
35"MO"

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

W. HOLT AVENUE
8"H"
12"H"

W. OHIO AVENUE
8"OH"
12"OH"

S. 60TH STREET

W. LAKEFIELD DRIVE (PRIVATE DRIVE)
12"LA"

45"O"

END CONSTRUCTION
I.D. 2415-00-71
STA. 125+82.01

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA. 127+06.24

W. OKLAHOMA AVENUE
50"O"

W. BENNETT AVENUE
12"B"

MATCHLINE 130+50

105 110 115 120 125 130

2

N

MATCHLINE 130+50

W. STACK DRIVE
8"S"
12"S"

W. MONTANA STREET
10"MT"

W. CLEVELAND AVENUE
55"C"
60"C"

S. 60TH STREET

TEMPORARY SIGNALS

135 140 145 150 155 160

W. KINNICKINNIC PKWY
5"K"
14"K"

END CONSTRUCTION
I.D. 2415-00-71
STA. 160+01.78

END PROJECT
I.D. 2415-00-71
STA. 159+31.51

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET OVERVIEW STAGE 1B	SHEET 164	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\026001_s1b.dgn PLOT DATE : 7/3/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:200

2

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

34"MO"

36"MO"

38"MO"

40"MO"

W. MORGAN AVENUE

SIDEWALK CLOSED AHEAD CROSS HERE R9-9 24" X 12"

TRUCK M4-4 24" X 12"

R3-1 24" X 24"

SIDEWALK CLOSED R9-9 24" X 12"

305'

205'

102

50'

12'

01W

S. 60TH STREET

MATCH LINE STA. 106+00

250'

02W

W01-4R

R3-2 36" X 36"

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

2

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1B	SHEET 165 E

2

N

ROAD CLOSED AHEAD W20-3

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED R11-2 48" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

8"H

80"OH

MATCH LINE STA. 106+00

MATCH LINE STA. 121+00

108 110 112 114 116 118 120

50'

S. 60TH STREET

TEMPORARY BUS STOP

O1W O1Y

W. HOLT AVENUE

W. OHIO AVENUE

12"H

12"OH

ROAD WORK AHEAD W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- O1Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- O1W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- O2Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- O2W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1B	SHEET 166	E

2

N

MATCH LINE STA. 121+00

MATCH LINE STA. 136+00

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

TRUCK M4-4 24" X 12"

R3-1 24" X 24"

SIDEWALK CLOSED AHEAD CROSS HERE R9-9 24" X 12"

R3-2 36" X 36"

SIDEWALK CLOSED R9-9 24" X 12"

44"O"

46"O"

48"O"

50"O"

300'

171'

300'

25'

50'

50'

50'

25'

25'

25'

18'

122

124

126

128

130

132

134

O1W

O1Y

S. 60TH STREET

END ROAD WORK G20-2A 48" X 24"

RIGHT TURN ONLY R3-53R 24" X 30"

END CONSTRUCTION
I.D. 2415-00-71
STA 125+82.01

12"LA"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

W. LAKEFIELD DRIVE

W. OKLAHOMA AVENUE

TRUCK M4-4 24" X 12"

R3-1 24" X 24"

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

RIGHT TURN ONLY R3-53R 24" X 30"

12"B"

W. BENNETT AVENUE

ROAD WORK AHEAD W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- O1Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- O1W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- O2Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- O2W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1B	SHEET 167	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

W. STACK DRIVE

8"S"

SIDEWALK CLOSED R9-9 24" X 12"

ROAD CLOSED R11-2 48" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

ROAD CLOSED R11-2 48" X 30"

MATCH LINE STA. 136+00

138

140

50'

TEMPORARY BUS STOP

O1Y O1W

12"S"

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

142

144

50'

S. 60TH STREET

O1W O1Y

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

W. MONTANA STREET

10"MT"

ROAD CLOSED R11-2 48" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

SIDEWALK CLOSED R9-9 24" X 12"

146

12"MT"

148

25'

150

50'

ROAD CLOSED R11-2 48" X 30"

O1Y O1W

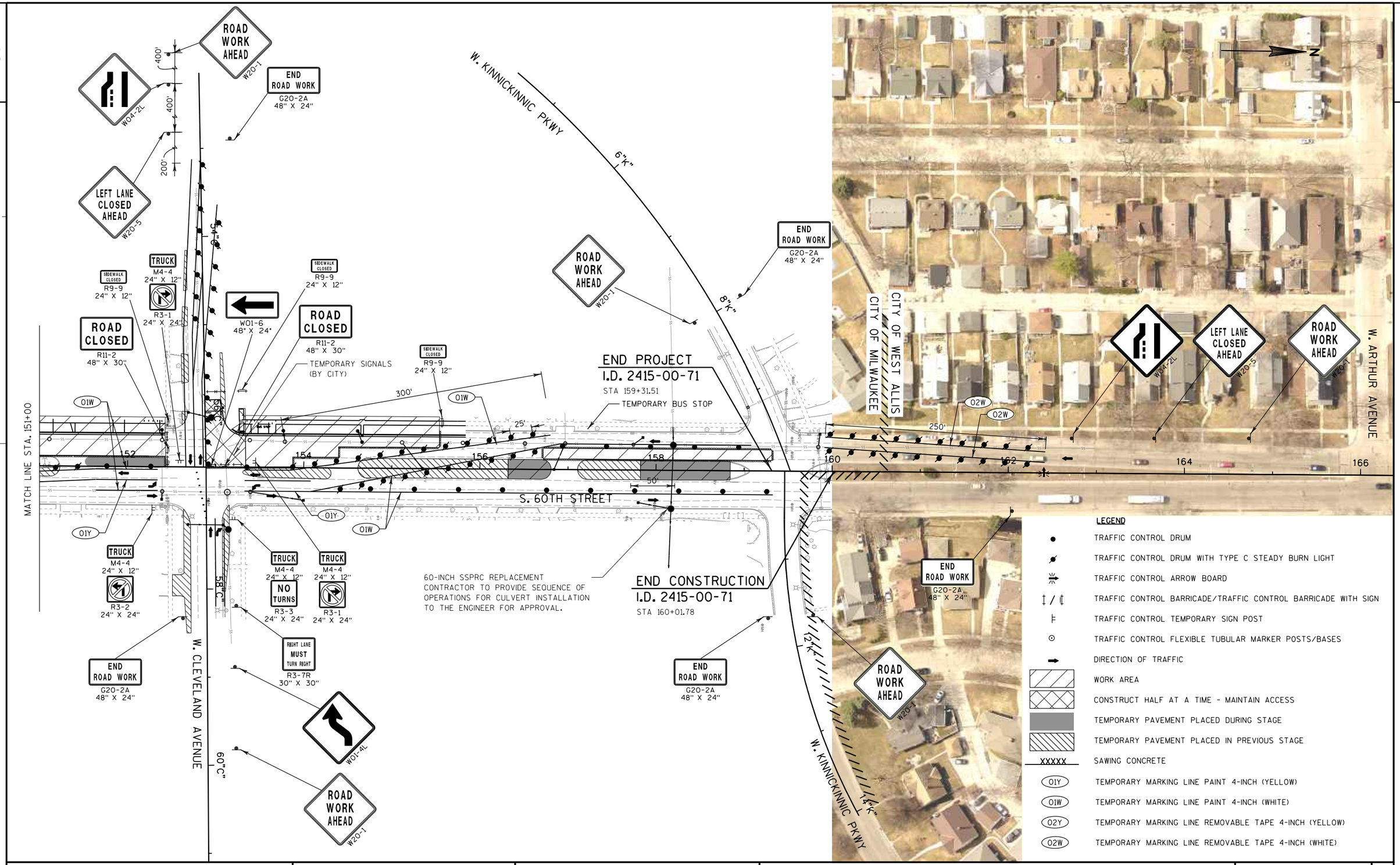
MATCH LINE STA. 151+00

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- O1Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- O1W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- O2Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- O2W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1B	SHEET 168	E

2



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1B	SHEET 169	E

LEGEND

- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

STAGE 1:

CONSTRUCT SB LANES FROM W MORGAN AVE TO KINNICKINNIC PARKWAY.
REMOVE EXISTING MEDIAN AND CONSTRUCT TEMPORARY PAVEMENT.

TRAFFIC - ONE LANE IN EACH DIRECTION ON THE NB LANES. SEE TYPICAL SECTION.

MAINTAIN PEDESTRIAN ACCESS PER "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" SDD FOR TRAFFIC CONTROL WHILE SIDEWALK REMAINS CLOSED FOR REPLACEMENT.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS FOR 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR PLACEMENT OF ADVANCED SIGNS.

N

W. MORGAN AVENUE
35"MO"
40"MO"
W. HOLT AVENUE
8"H"
12"H"
W. OHIO AVENUE
8"OH"
12"OH"
S. 60TH STREET
W. LAKEFIELD DRIVE (PRIVATE DRIVE)
12"LA"
W. OKLAHOMA AVENUE
45"O"
50"O"
W. BENNETT AVENUE
12"B"
MATCHLINE 130+50
105
110
115
120
125
130

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

END CONSTRUCTION
I.D. 2415-00-71
STA. 125+82.01

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA. 127+06.24

N

MATCHLINE 130+50
W. STACK DRIVE
8"S"
12"S"
W. MONTANA STREET
10"MT"
W. CLEVELAND AVENUE
55"C"
60"C"
W. KINNICKINNIC PKWY
5"K"
14"K"
135
140
145
150
155
160

TEMPORARY SIGNALS

END CONSTRUCTION
I.D. 2415-00-71
STA. 160+01.78

END PROJECT
I.D. 2415-00-71
STA. 159+31.51

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET OVERVIEW STAGE 1C	SHEET 170	E

2

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- O1Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- O1W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- O2Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- O2W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

34"MO"

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

TEMPORARY BUS STOP

END ROAD WORK G20-2A 48" X 24"

36"MO"

SIDEWALK CLOSED R9-9 24" X 12"

250'

O1W

50' 102 104

50' 25' 25'

S. 60TH STREET

12'

250'

O2W
(PLACED IN PREVIOUS STAGE)

ROAD WORK AHEAD W20-1

W01-4R

O1W (PLACED IN PREVIOUS STAGE)

O1Y (PLACED IN PREVIOUS STAGE)

MATCH LINE STA. 106+00

38"MO"

TRUCK M4-4 24" X 12"

R3-1 24" X 24"

END ROAD WORK G20-2A 48" X 24"

W. MORGAN AVENUE

ROAD WORK AHEAD W20-1

40"MO"

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1C	SHEET 171 E

2

N

ROAD CLOSED AHEAD W20-3

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED R11-2 48" X 30"

8"H

SIDEWALK CLOSED R9-9 24" X 12"

MATCH LINE STA. 106+00

108 110 112 114 116 118 120

50'

12'

S. 60TH STREET

TEMPORARY BUS STOP

O1W

O1Y

(PLACED IN PREVIOUS STAGE)

ROAD CLOSED AHEAD W20-3

END ROAD WORK G20-2A 48" X 24"

80"OH

ROAD CLOSED R11-2 48" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

ROAD CLOSED R11-2 48" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

MATCH LINE STA. 121+00

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED R11-2 48" X 30"

12"H

ROAD WORK AHEAD W20-1

W. HOLT AVENUE

END ROAD WORK G20-2A 48" X 24"

12"OH

ROAD WORK AHEAD W20-1

W. OHIO AVENUE

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- O1Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- O1W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- O2Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- O2W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1C	SHEET 172	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

TRUCK M4-4 24" X 12"

R3-1 24" X 24"

SIDEWALK CLOSED R9-9 24" X 12"

44"0"

46"0"

250'

240'

TEMPORARY BUS STOP

01W

01Y

01X

50'

25'

129'

185'

12"

122 124 126 128 130 132 134

S. 60TH STREET

MATCH LINE STA. 121+00

MATCH LINE STA. 136+00

(PLACED IN PREVIOUS STAGE)

END ROAD WORK G20-2A 48" X 24"

RIGHT TURN ONLY R3-53R 24" X 30"

12"LA"

W. LAKEFIELD DRIVE

END CONSTRUCTION
I.D. 2415-00-71
STA 125+82.01

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

48"0"

50"0"

W. OKLAHOMA AVENUE

TRUCK M4-4 24" X 12"

R3-1 24" X 24"

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

12"B"

W. BENNETT AVENUE

RIGHT TURN ONLY R3-53R 24" X 30"

ROAD WORK AHEAD W20-1

(PLACED IN PREVIOUS STAGE)

(PLACED IN PREVIOUS STAGE)

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- (01Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (01W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (02Y) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (02W) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1C	SHEET 173	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED R11-2 48" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

W. STACK DRIVE

8"S"

12"S"

W. MONTANA STREET

10"MT"

12"MT"

S. 60TH STREET

TEMPORARY BUS STOP

MATCH LINE STA. 136+00

MATCH LINE STA. 151+00

138 140 142 144 146 148 150

50' 50' 50' 25' 250'

(01Y) (PLACED IN PREVIOUS STAGE)

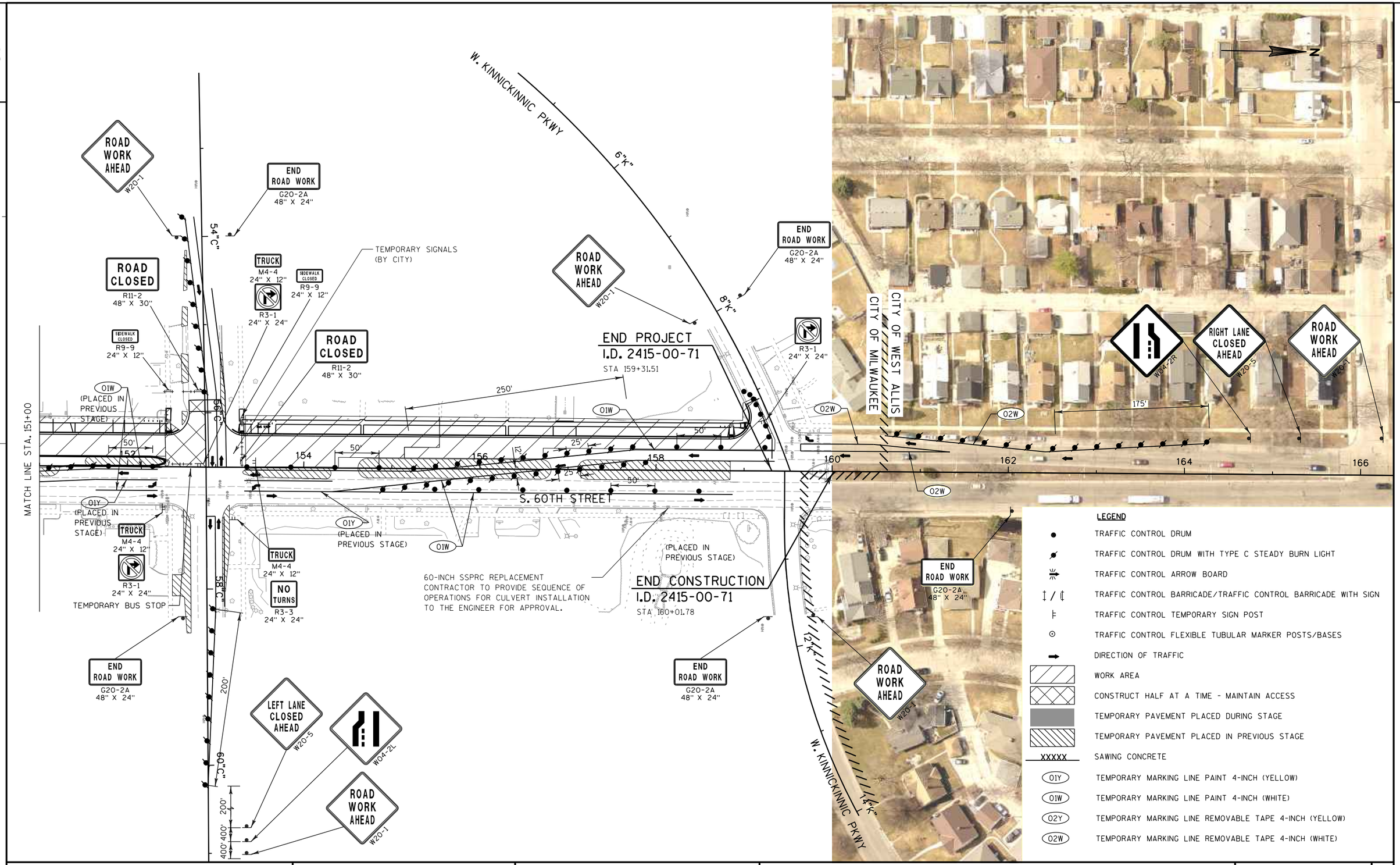
(01W) (PLACED IN PREVIOUS STAGE)

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- (01Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (01W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (02Y) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (02W) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1C	SHEET 174	E

2



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1C	SHEET 175	E

LEGEND

DIRECTION OF TRAFFIC

WORK AREA

CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS

TEMPORARY PAVEMENT PLACED DURING STAGE

TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

STAGE 1:

CONSTRUCT WEST FRONTAGE ROAD.

TRAFFIC - ONE LANE IN EACH DIRECTION ON THE NB LANES. SEE TYPICAL SECTION.

MAINTAIN PEDESTRIAN ACCESS PER "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" SDD FOR TRAFFIC CONTROL WHILE SIDEWALK REMAINS CLOSED FOR REPLACEMENT.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS FOR 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR PLACEMENT OF ADVANCED SIGNS.

N

W. MORGAN AVENUE

35"MO"

40"MO"

W. HOLT AVENUE

8"H"

12"H"

W. OHIO AVENUE

8"OH"

12"OH"

S. 60TH STREET

105

110

115

120

125

130

MATCHLINE 130+50

W. LAKEFIELD DRIVE (PRIVATE DRIVE)

12"LA"

W. OKLAHOMA AVENUE

45"O"

50"O"

W. BENNETT AVENUE

12"B"

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

END CONSTRUCTION
I.D. 2415-00-71
STA. 125+82.01

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA. 127+06.24

MATCHLINE 130+50

W. STACK DRIVE

8"S"

12"S"

W. MONTANA STREET

10"MT"

S. 60TH STREET

135

140

145

150

155

160

W. CLEVELAND AVENUE

55"C"

60"C"

TEMPORARY SIGNALS

W. KINNICKINNIC PKWY

5"K"

14"K"

END CONSTRUCTION
I.D. 2415-00-71
STA. 160+01.78

END PROJECT
I.D. 2415-00-71
STA. 159+31.51

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET OVERVIEW STAGE 1D	SHEET 176	E

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

34"MO"

SIDEWALK CLOSED AHEAD CROSS HERE R9-9 24" X 12"

ROAD CLOSED AHEAD W20-3

END ROAD WORK G20-2A 48" X 24"

8"H

ROAD CLOSED R11-2 48" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

END ROAD WORK G20-2A 48" X 24"

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

TEMPORARY BUS STOP

36"MO"

250'

102

02W

104

106

108

25'

S. 60TH STREET

01W

(PLACED IN PREVIOUS STAGE)

MATCH LINE STA. 109+00

02W

(PLACED IN PREVIOUS STAGE)

RIGHT LANE MUST TURN RIGHT R3-7R 30" X 30"

38"MO"

W. MORGAN AVENUE

40"MO"

ROAD WORK AHEAD W20-1

W01-4R

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

12"H

ROAD WORK AHEAD W20-1

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1D	SHEET 177	E

2

N

ROAD CLOSED AHEAD
W20-3

END ROAD WORK
G20-2A
48" X 24"

ROAD CLOSED
R11-2
48" X 30"

80"OH

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"

ROAD CLOSED
R11-2
48" X 30"

SIDEWALK CLOSED
R9-9
24" X 12"

MATCH LINE STA. 109+00

110 112 114 116 118 120 122

250'

MATCH LINE STA. 124+00

S. 60TH STREET

TEMPORARY BUS STOP

01Y

(PLACED IN PREVIOUS STAGE)

ROAD CLOSED
R11-2
48" X 30"

END ROAD WORK
G20-2A
48" X 24"

12"OH

W. OHIO AVENUE

ROAD WORK AHEAD
W20-1

RIGHT TURN ONLY
R3-53R
24" X 30"

12"LA

END ROAD WORK
G20-2A
48" X 24"

W. LAKEFIELD DRIVE

ROAD WORK AHEAD
W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1D	SHEET 178	E

2

N

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

44"0"

END CONSTRUCTION
I.D. 2415-00-71

SIDEWALK CLOSED AHEAD CROSS HERE
R9-9
24" X 12"

SIDEWALK CLOSED AHEAD CROSS HERE
R9-9
24" X 12"

02W

46"0"

MATCH LINE STA. 124+00

126

128

130

132

134

MATCH LINE STA. 136+00

S. 60TH STREET

01W
(PLACED IN PREVIOUS STAGE)

RIGHT TURN ONLY
R3-53R
24" X 30"

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

48"0"

W. OKLAHOMA AVENUE

50"0"

12"B"

W. BENNETT AVENUE

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- (01Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (01W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (02Y) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (02W) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1D	SHEET 179	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

W. STACK DRIVE

8"S"

W. MONTANA STREET

10"MT"

SIDEWALK CLOSED R9-9 24" X 12"

SIDEWALK CLOSED R9-9 24" X 12"

MATCH LINE STA. 136+00

MATCH LINE STA. 151+00

136 138 140 142 144 146 148 150

12"MT.

S. 60TH STREET

12"S"

END ROAD WORK G20-2A 48" X 24"

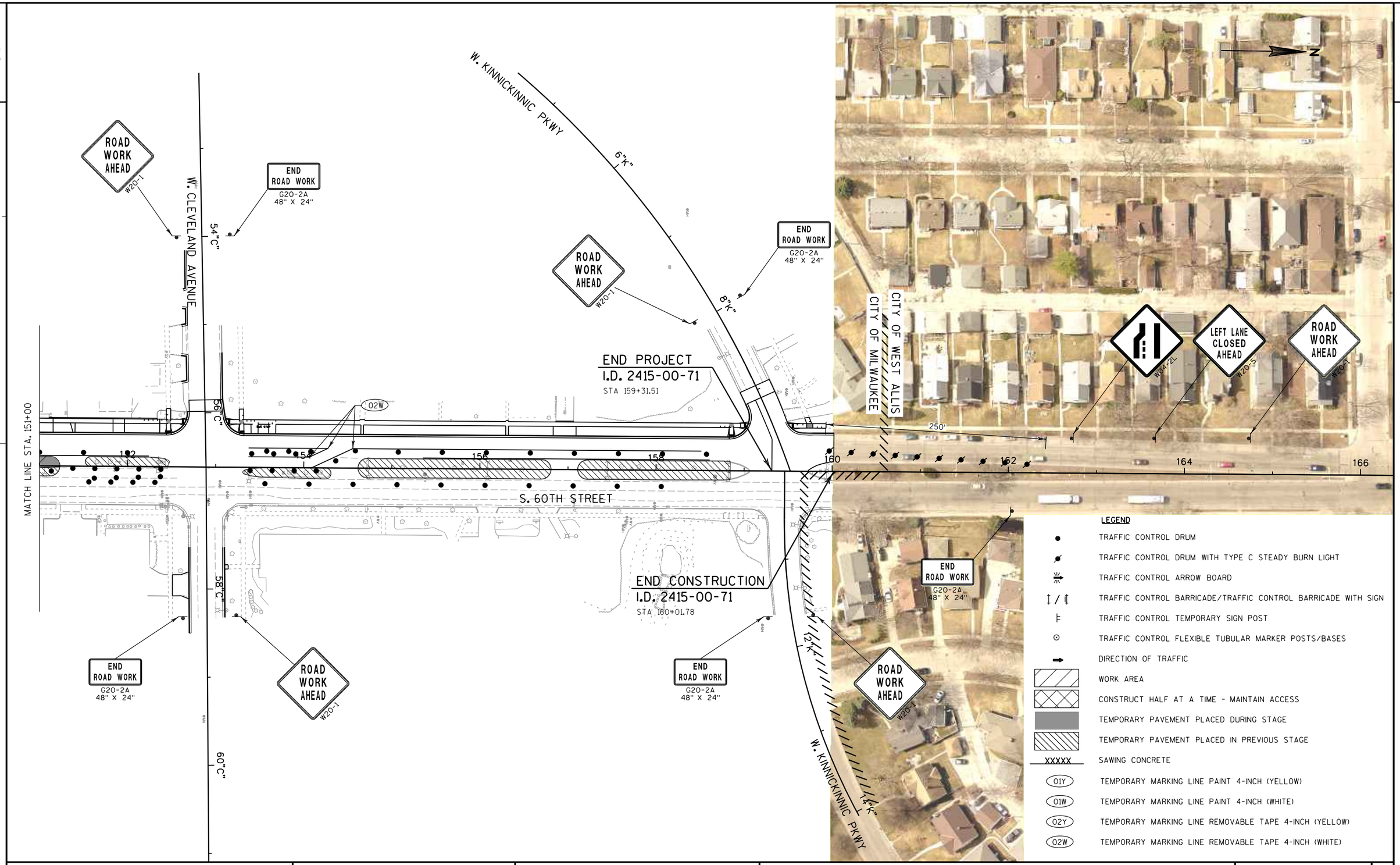
ROAD WORK AHEAD W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1D	SHEET 180	E

2



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 1D	SHEET 181	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\026105_s1d.dgn PLOT DATE : 7/3/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:100

LEGEND

- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

STAGE 2:

CONSTRUCT NB LANES FROM W. MORGAN AVENUE TO W. KINNICKINNIC PARKWAY.

TRAFFIC - ONE LANE IN EACH DIRECTION ON THE SB LANES. TRAFFIC WILL BE DRIVING ON TEMPORARY PAVEMENT PLACED IN STAGE ONE IN THE AREAS OF PROPOSED PEDESTRIAN CURB EXTENSIONS.

MAINTAIN PEDESTRIAN ACCESS PER "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" SDD FOR TRAFFIC CONTROL WHILE SIDEWALK REMAINS CLOSED FOR REPLACEMENT.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS FOR 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR PLACEMENT OF ADVANCED SIGNS.

N

W. MORGAN AVENUE
35'MO'
40'MO'
W. HOLT AVENUE
8"H"
12"H"
W. OHIO AVENUE
8"OH"
12"OH"
105
110
115
120
125
130
S. 60TH STREET
12"LAW"
W. LAKEFIELD DRIVE (PRIVATE DRIVE)
W. OKLAHOMA AVENUE
45'O'
50'O'
12"B"
W. BENNETT AVENUE
MATCHLINE 130+50

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

END CONSTRUCTION
I.D. 2415-00-71
STA. 125+82.01

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA. 127+06.24

N

MATCHLINE 130+50
W. STACK DRIVE
8"S"
12"S"
W. MONTANA STREET
10"MT"
135
140
145
150
155
160
S. 60TH STREET
W. CLEVELAND AVENUE
55'C"
60'C"
TEMPORARY SIGNALS
5"K"
W. KINNICKINNIC PKWY
10"K"
14"K"

END PROJECT
I.D. 2415-00-71
STA. 159+31.51

END CONSTRUCTION
I.D. 2415-00-71
STA. 160+01.78

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET OVERVIEW STAGE 2A	SHEET 182	E

2

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

34'MO"

END ROAD WORK G20-2A 48" X 24"

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

36'MO"

02W 02Y 02Y

S. 60TH STREET

50' 25'

102 104

50' 25' 200'

01W (PLACED IN PREVIOUS STAGE)

MATCH LINE STA. 106+00

02W (PLACED IN PREVIOUS STAGE)

02W (PLACED IN PREVIOUS STAGE)

ROAD WORK AHEAD W20-1

W01-4R

38'MO"

TRUCK M4-4 24" X 12"

R3-1 24" X 24"

SIDEWALK CLOSED AHEAD CROSS HERE R9-9 24" X 12"

SIDEWALK CLOSED R9-9 24" X 12"

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

W. MORGAN AVENUE

40'MO"

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2A	SHEET 183	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

80"H

END ROAD WORK G20-2A 48" X 24"

80"H

ROAD WORK AHEAD W20-1

02Y

02W

02Y

02Y

02W

MATCH LINE STA. 106+00

MATCH LINE STA. 121+00

25'

108

110

112

114

25'

116

S. 60TH STREET

118

25'

120

25'

TEMPORARY BUS STOP

SIDEWALK CLOSED R9-9 24" X 12"

ROAD CLOSED R11-2 48" X 30"

12"H

ROAD CLOSED AHEAD W20-3

END ROAD WORK G20-2A 48" X 24"

W. HOLT AVENUE

END ROAD WORK G20-2A 48" X 24"

12"OH

W. OHIO AVENUE

ROAD CLOSED R11-2 48" X 30"

SIDEWALK CLOSED R9-9 24" X 12"

ROAD CLOSED AHEAD W20-3

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2A	SHEET 184	E

2

N

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

TRUCK
M4-4
24" X 12"
R3-1
24" X 24"

END CONSTRUCTION
I.D. 2415-00-71
STA 125+82.01

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

MATCH LINE STA. 121+00

MATCH LINE STA. 136+00

S. 60TH STREET

W. LAKEFIELD DRIVE

W. OKLAHOMA AVENUE

W. BENNETT AVENUE

44"0"

46"0"

48"0"

50"0"

12"LA"

12"B"

02W

02Y

250'

50'

25'

12'

122

124

126

128

130

132

134

SIDEWALK CLOSED
R9-9
24" X 12"

RIGHT TURN ONLY
R3-53R
24" X 30"

R3-2
36" X 36"

SIDEWALK CLOSED AHEAD CROSS HERE
R9-9
24" X 12"

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

TRUCK
M4-4
24" X 12"
R3-1
24" X 24"

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

SIDEWALK CLOSED
R9-9
24" X 12"

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED AHEAD
W20-3

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX — SAWING CONCRETE
- (01Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (01W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (02Y) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (02W) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2A	SHEET 185	E

2

N

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

8"S"

W. STACK DRIVE

TEMPORARY BUS STOP

ROAD CLOSED
R11-2
48" X 30"

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

10"MT"

W. MONTANA STREET

12"MT"

MATCH LINE STA. 136+00

MATCH LINE STA. 151+00

S. 60TH STREET

02Y

02W

138 140 142 144 146 148 150

25'

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"

ROAD CLOSED
R11-2
48" X 30"

12"S"

END ROAD WORK
G20-2A
48" X 24"

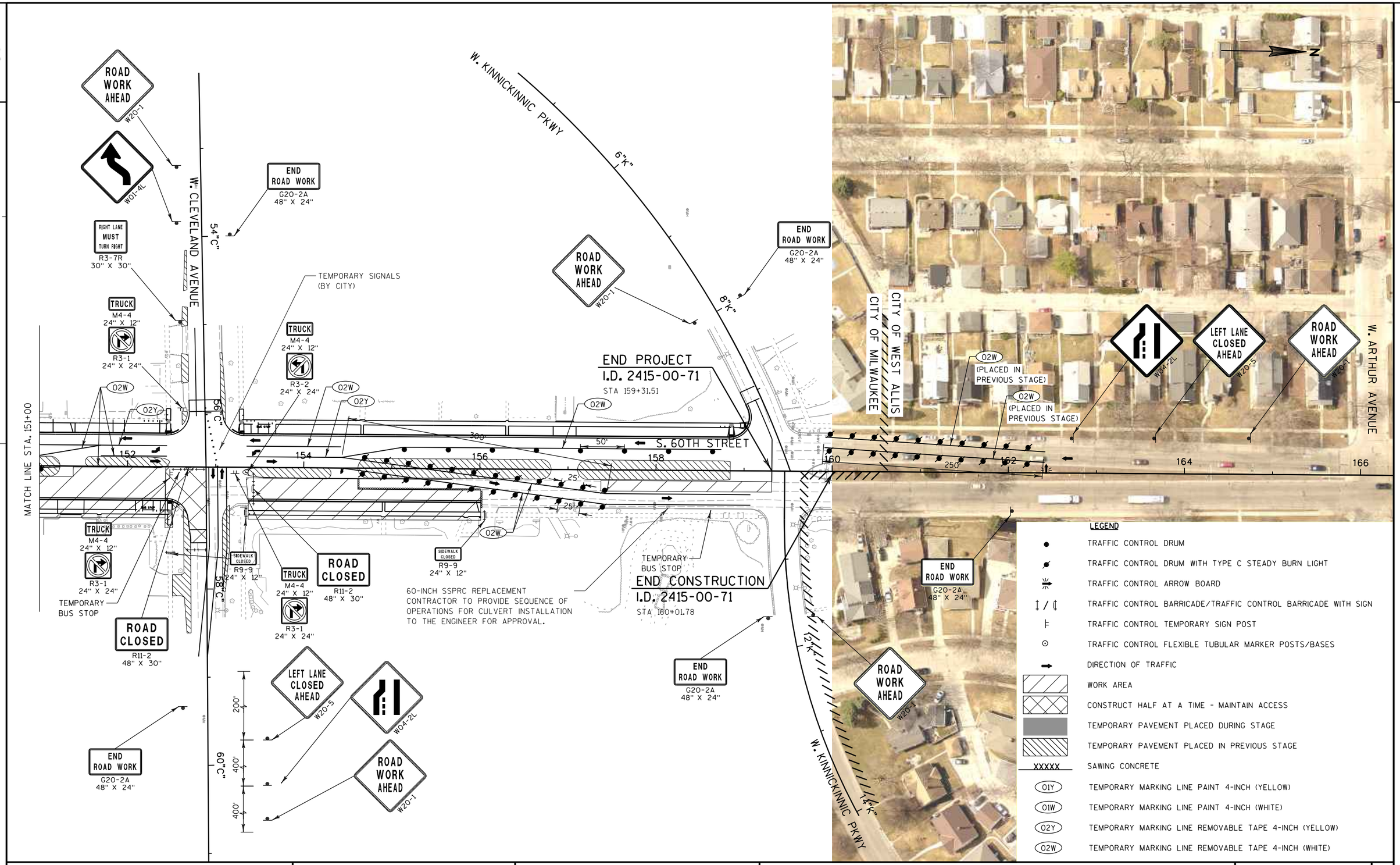
ROAD CLOSED AHEAD
W20-3

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- (01Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (01W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (02Y) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (02W) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2A	SHEET 186	E

2



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2A	SHEET 187	E

LEGEND

- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

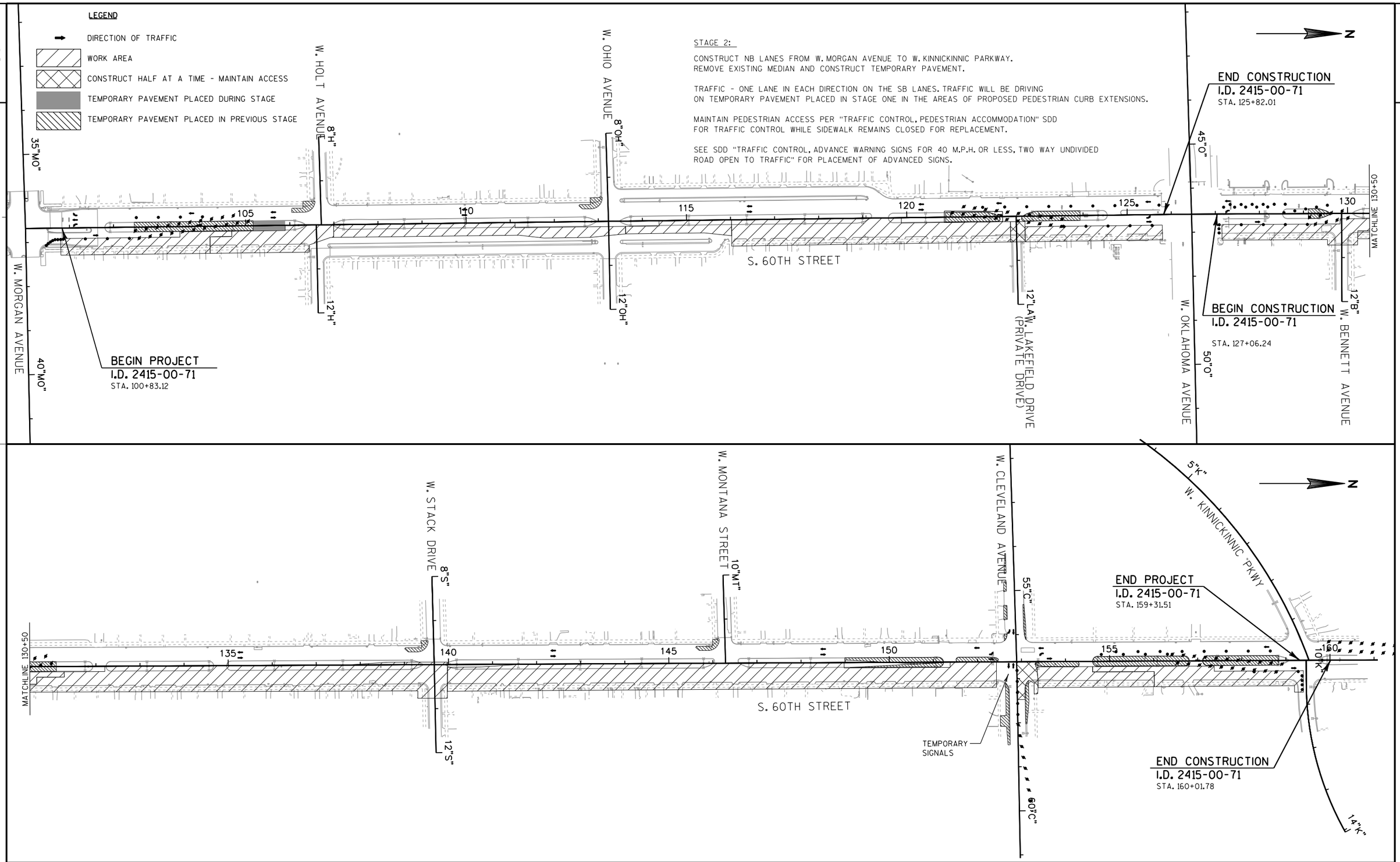
STAGE 2:

CONSTRUCT NB LANES FROM W. MORGAN AVENUE TO W. KINNICKINNIC PARKWAY.
REMOVE EXISTING MEDIAN AND CONSTRUCT TEMPORARY PAVEMENT.

TRAFFIC - ONE LANE IN EACH DIRECTION ON THE SB LANES. TRAFFIC WILL BE DRIVING ON TEMPORARY PAVEMENT PLACED IN STAGE ONE IN THE AREAS OF PROPOSED PEDESTRIAN CURB EXTENSIONS.

MAINTAIN PEDESTRIAN ACCESS PER "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" SDD FOR TRAFFIC CONTROL WHILE SIDEWALK REMAINS CLOSED FOR REPLACEMENT.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS FOR 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR PLACEMENT OF ADVANCED SIGNS.



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET OVERVIEW STAGE 2B	SHEET 188	E

2

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- (O1Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (O1W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (O2Y) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (O2W) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

34"MO"

END ROAD WORK G20-2A 48" X 24"

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

36"MO"

(PLACED IN PREVIOUS STAGE)

O2W O2W O2Y

50' 102 104 50' 25' 250'

MATCH LINE STA. 106+00

S. 60TH STREET

ROAD WORK AHEAD W20-1

RIGHT LANE MUST TURN RIGHT R3-7R 30" X 30"

38"MO"

TRUCK M4-4 24" X 12"

SIDEWALK CLOSED R9-9 24" X 12"

R3-1 24" X 24"

W. MORGAN AVENUE

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

40"MO"

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2B	SHEET 189	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\026201_s2b.dgn PLOT DATE : 7/3/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

8"H

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

80"OH

(PLACED IN PREVIOUS STAGE) O2Y

(PLACED IN PREVIOUS STAGE) O2W

(PLACED IN PREVIOUS STAGE) O2Y

MATCH LINE STA. 106+00

108

110

112

114

116

S. 60TH STREET

118

120

MATCH LINE STA. 121+00

TEMPORARY BUS STOP

SIDEWALK CLOSED R9-9 24" X 12"

ROAD CLOSED R11-2 48" X 30"

12"H"

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED AHEAD W20-3

W. HOLT AVENUE

END ROAD WORK G20-2A 48" X 24"

12"OH"

W. OHIO AVENUE

SIDEWALK CLOSED R9-9 24" X 12"

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED AHEAD W20-3

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- O1Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- O1W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- O2Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- O2W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2B	SHEET 190	E

2

N

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

44"0"

TRUCK
M4-4
24" X 12"

R3-1
24" X 24"

END CONSTRUCTION
I.D. 2415-00-71
STA 125+82.01

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

(PLACED IN PREVIOUS STAGE)
02W

(PLACED IN PREVIOUS STAGE)
02Y

MATCH LINE STA. 121+00

MATCH LINE STA. 136+00

S. 60TH STREET

50'
100'
25'
250'
190'
124
126
128
130
132
134
12'

END ROAD WORK
G20-2A
48" X 24"

RIGHT TURN ONLY
R3-53R
24" X 30"

TEMPORARY BUS STOP

SIDEWALK CLOSED
R9-9
24" X 12"

12"LA"

ROAD WORK AHEAD
W20-1

W. LAKEFIELD DRIVE

48"0"

W. OKLAHOMA AVENUE

50"0"

W. BENNETT AVENUE

12"B"

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED AHEAD
W20-3

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2B	SHEET 191	E

2

N

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

8"S"

W. STACK DRIVE

TEMPORARY BUS STOP

ROAD CLOSED
R11-2
48" X 30"

(PLACED IN PREVIOUS STAGE) 02Y

(PLACED IN PREVIOUS STAGE) 02W

(PLACED IN PREVIOUS STAGE) 02W

(PLACED IN PREVIOUS STAGE) 02Y

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

10"MT"

W. MONTANA STREET

(PLACED IN PREVIOUS STAGE) 02W

(PLACED IN PREVIOUS STAGE) 02Y

(PLACED IN PREVIOUS STAGE) 02W

S. 60TH STREET

MATCH LINE STA. 136+00

136 138 140 142 144 146 148 150

12"MT"

MATCH LINE STA. 151+00

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"

12"S"

ROAD CLOSED
R11-2
48" X 30"

END ROAD WORK
G20-2A
48" X 24"

ROAD CLOSED AHEAD
W20-3

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2B	SHEET 192	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\026204_s2b.dgn PLOT DATE : 7/3/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:100

2

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

W. CLEVELAND AVENUE

54"C"

W. KINNICKINNIC PKWY

6"K"

8"K"

RIGHT LANE MUST TURN RIGHT R3-7R 30" X 30"

TRUCK M4-4 24" X 12"

R3-1 24" X 24"

TEMPORARY SIGNALS (BY CITY)

TRUCK M4-4 24" X 12"

R3-2 24" X 24"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

END PROJECT
I.D. 2415-00-71
STA 159+31.51

(PLACED IN PREVIOUS STAGE)

02Y

02W

56"C"

MATCH LINE STA. 151+00

152 154 156 158 160 162 164 166

50' 25' 25' 250'

END ROAD WORK G20-2A 48" X 24"

TEMPORARY BUS STOP

58"C"

TRUCK M4-4 24" X 12"

R3-1 24" X 24"

60-INCH SSPRC REPLACEMENT
CONTRACTOR TO PROVIDE SEQUENCE OF OPERATIONS FOR CULVERT INSTALLATION TO THE ENGINEER FOR APPROVAL.

END CONSTRUCTION
I.D. 2415-00-71
STA 160+01.78

R3-1 24" X 24"

END ROAD WORK G20-2A 48" X 24"

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED R11-2 48" X 30"

W01-4L

15 M.P.H. W013-1 24" X 24"

200'

200'

ROAD WORK AHEAD W20-1

60"C"

12"K"

14"K"

W. KINNICKINNIC PKWY

CITY OF WEST ALLIS
CITY OF MILWAUKEE

W. ARTHUR AVENUE

S. 60TH STREET

W04-2L

LEFT LANE CLOSED AHEAD W20-5

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2B	SHEET 193	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\026205_s2b.dgn
PLOT DATE : 7/3/2018
PLOT BY : plr
PLOT NAME :
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 42

LEGEND

DIRECTION OF TRAFFIC

WORK AREA

CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS

TEMPORARY PAVEMENT PLACED DURING STAGE

TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

STAGE 2:

CONSTRUCT EAST FRONTAGE ROADS.

TRAFFIC - ONE LANE IN EACH DIRECTION ON THE SB LANES. TRAFFIC WILL BE DRIVING ON TEMPORARY PAVEMENT PLACED IN STAGE ONE IN THE AREAS OF PROPOSED PEDESTRIAN CURB EXTENSIONS.

MAINTAIN PEDESTRIAN ACCESS PER "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" SDD FOR TRAFFIC CONTROL WHILE SIDEWALK REMAINS CLOSED FOR REPLACEMENT.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS FOR 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR PLACEMENT OF ADVANCED SIGNS.

N

W. MORGAN AVENUE

35"MO"

40"MO"

W. HOLT AVENUE

8"H"

12"H"

W. OHIO AVENUE

8"OH"

12"OH"

S. 60TH STREET

105

110

115

120

125

130

MATCHLINE 130+50

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

12"LAW"

W. LAKEFIELD DRIVE
(PRIVATE DRIVE)

W. OKLAHOMA AVENUE

45"O"

50"O"

END CONSTRUCTION
I.D. 2415-00-71
STA. 125+82.01

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA. 127+06.24

12"B"

W. BENNETT AVENUE

MATCHLINE 130+50

135

140

145

150

155

160

W. STACK DRIVE

8"S"

12"S"

W. MONTANA STREET

10"MT"

W. CLEVELAND AVENUE

55"C"

60"C"

5"K"

W. KINNICKINNIC PKWY

10"K"

14"K"

END PROJECT
I.D. 2415-00-71
STA. 159+31.51

TEMPORARY
SIGNALS

END CONSTRUCTION
I.D. 2415-00-71
STA. 160+01.78

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET OVERVIEW STAGE 2C	SHEET 194 E

2

N

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

34"MO"

END ROAD WORK
G20-2A
48" X 24"

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

36"MO"

S. 60TH STREET

(PLACED IN PREVIOUS STAGE)

02Y

12'

12'

12'

12'

50'

102

104

50'

25'

250'

S. 60TH STREET

MATCH LINE STA. 106+00

ROAD WORK AHEAD
W20-1

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

38"MO"

02W
(PLACED IN PREVIOUS STAGE)

W. MORGAN AVENUE

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

40"MO"

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2C	SHEET 195	E

2

N

ROAD WORK AHEAD W20-1

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

END ROAD WORK G20-2A 48" X 24"

8"H

80"OH

ROAD CLOSED R11-2 48" X 30"

(PLACED IN PREVIOUS STAGE) 02Y

(PLACED IN PREVIOUS STAGE) 02W

(PLACED IN PREVIOUS STAGE) 02Y

(PLACED IN PREVIOUS STAGE) 02W

MATCH LINE STA. 106+00

MATCH LINE STA. 121+00

12'

108 110 112 114 116 118 120

W. HOLT AVENUE

W. OHIO AVENUE

12"H

12"OH

SIDEWALK CLOSED R9-9 24" X 12"

ROAD CLOSED R11-2 48" X 30"

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED AHEAD W20-3

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- (01Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (01W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (02Y) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (02W) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2C	SHEET 196	E

2

N

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

44"0"

END CONSTRUCTION
I.D. 2415-00-71
STA 125+82.01

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

46"0"

02W (PLACED IN PREVIOUS STAGE)

50'
100'
250'
250'
50'
12'
11'

120
122
124
126
128
130
132
134

S. 60TH STREET

MATCH LINE STA. 121+00

MATCH LINE STA. 136+00

02W (PLACED IN PREVIOUS STAGE)

02W (PLACED IN PREVIOUS STAGE)

TEMPORARY BUS STOP

END ROAD WORK
G20-2A
48" X 24"

RIGHT TURN ONLY
R3-53R
24" X 30"

12"LA"

W. LAKEFIELD DRIVE

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

48"0"

W. OKLAHOMA AVENUE

50"0"

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

W. BENNETT AVENUE

12"B"

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED AHEAD
W20-3

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2C	SHEET 197	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

8"S"

W. STACK DRIVE

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

10"MT"

W. MONTANA STREET

S. 60TH STREET

MATCH LINE STA. 136+00

MATCH LINE STA. 151+00

136 138 140 142 144 146 12"MT" 148 150

SIGN

12"S"

END ROAD WORK G20-2A 48" X 24"

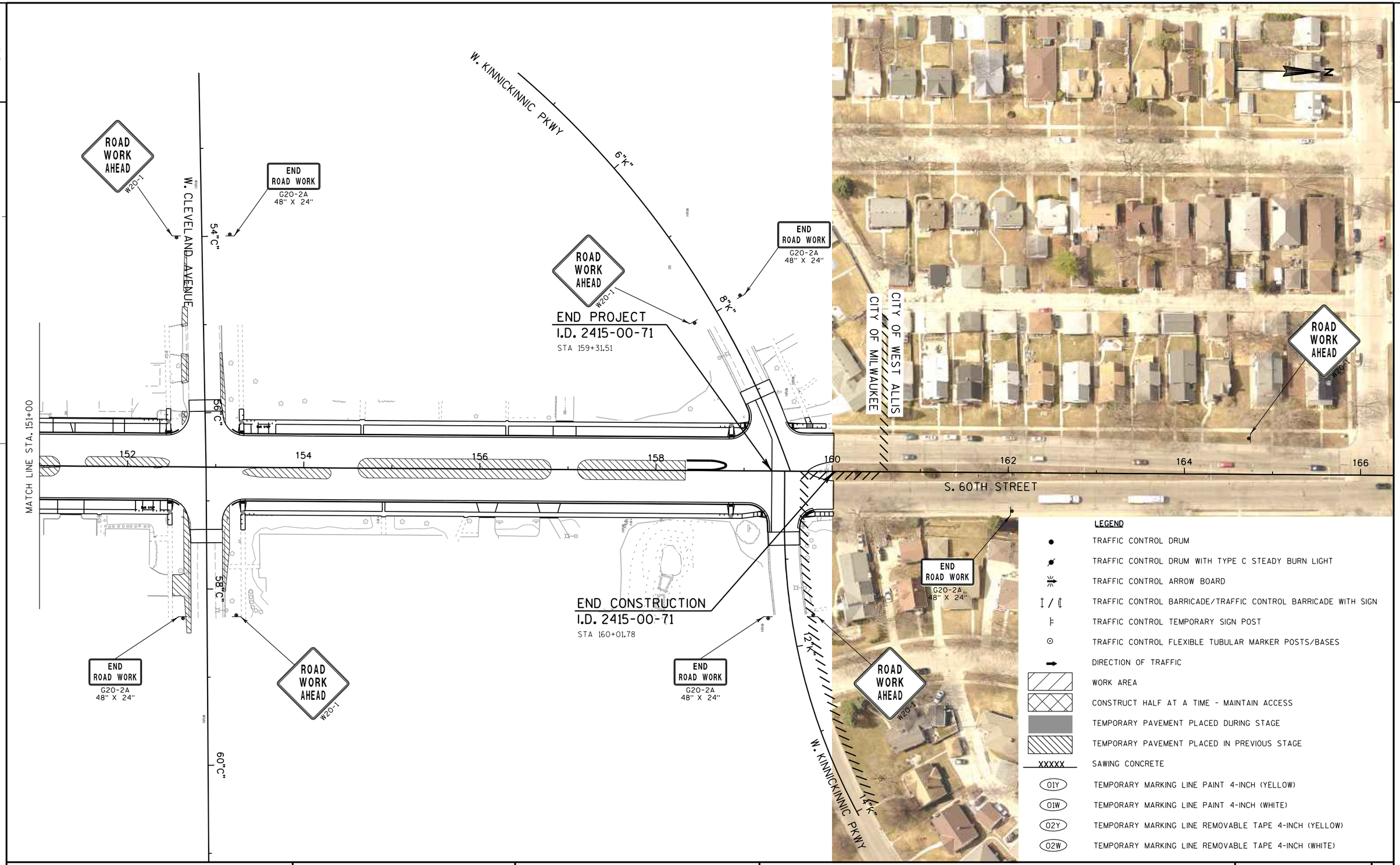
ROAD WORK AHEAD W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- O1Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- O1W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- O2Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- O2W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2C	SHEET 198	E

2



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 2C	SHEET 199	E

LEGEND

- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

STAGE 3:

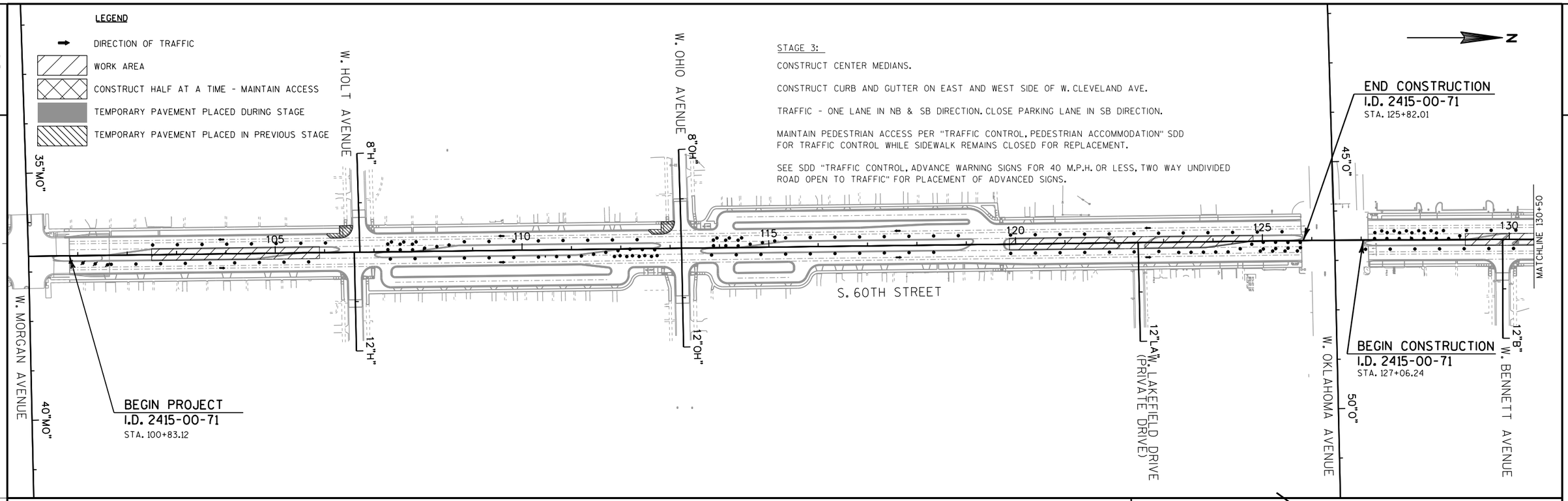
CONSTRUCT CENTER MEDIANS.

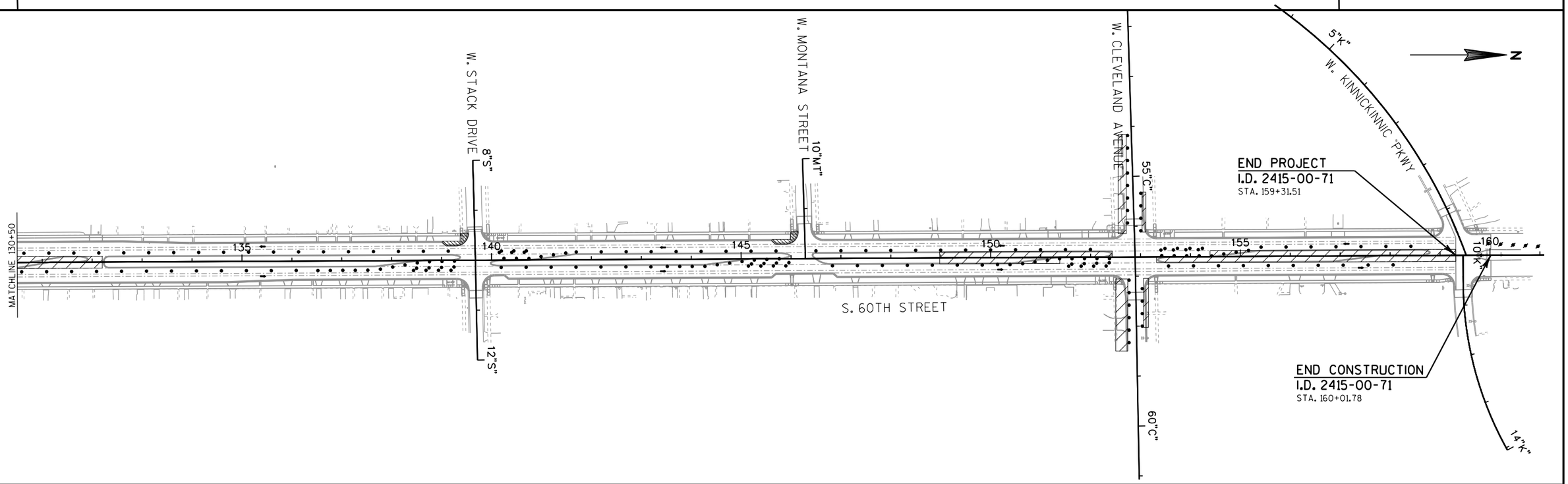
CONSTRUCT CURB AND GUTTER ON EAST AND WEST SIDE OF W. CLEVELAND AVE.

TRAFFIC - ONE LANE IN NB & SB DIRECTION. CLOSE PARKING LANE IN SB DIRECTION.

MAINTAIN PEDESTRIAN ACCESS PER "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" SDD FOR TRAFFIC CONTROL WHILE SIDEWALK REMAINS CLOSED FOR REPLACEMENT.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS FOR 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR PLACEMENT OF ADVANCED SIGNS.





PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET OVERVIEW STAGE 3A	SHEET 200	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\026003_s3a.dgn PLOT DATE : 7/3/2018 PLOT BY : sxp PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

34"MO"

END ROAD WORK
G20-2A
48" X 24"

36"MO"

102

104

S. 60TH STREET

MATCH LINE STA. 106+00

250'

ROAD WORK AHEAD
W20-1

LEFT LANE CLOSED AHEAD
W20-5

W04-2L

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

38"MO"

W. MORGAN AVENUE

40"MO"

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX — SAWING CONCRETE
- 01Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 3A	SHEET 201	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

8"H

80"OH

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

MATCH LINE STA. 106+00

108 110 112 114 116 118 120

S. 60TH STREET

MATCH LINE STA. 121+00

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

12"H"

12"OH"

W. HOLT AVENUE

W. OHIO AVENUE

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 3A	SHEET 202	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\026302_s3a.dgn PLOT DATE : 7/3/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:100

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

END CONSTRUCTION
I.D. 2415-00-71
STA 125+82.01

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

44"0"

46"0"

MATCH LINE STA. 121+00

122 124 126 128 130 132 134

S. 60TH STREET

MATCH LINE STA. 136+00

END ROAD WORK G20-2A 48" X 24"

12"LA"

W. LAKEFIELD DRIVE

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

48"0"

W. OKLAHOMA AVENUE

50"0"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

12"B"

W. BENNETT AVENUE

ROAD WORK AHEAD W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 3A	SHEET 203	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

8"S"

W. MONTANA STREET

10"MT"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

MATCH LINE STA. 136+00

136 138 140 142 144 146

12"MT"

148 150

S. 60TH STREET

MATCH LINE STA. 151+00

W. STACK DRIVE

2"S"

END ROAD WORK G20-2A 48" X 24"

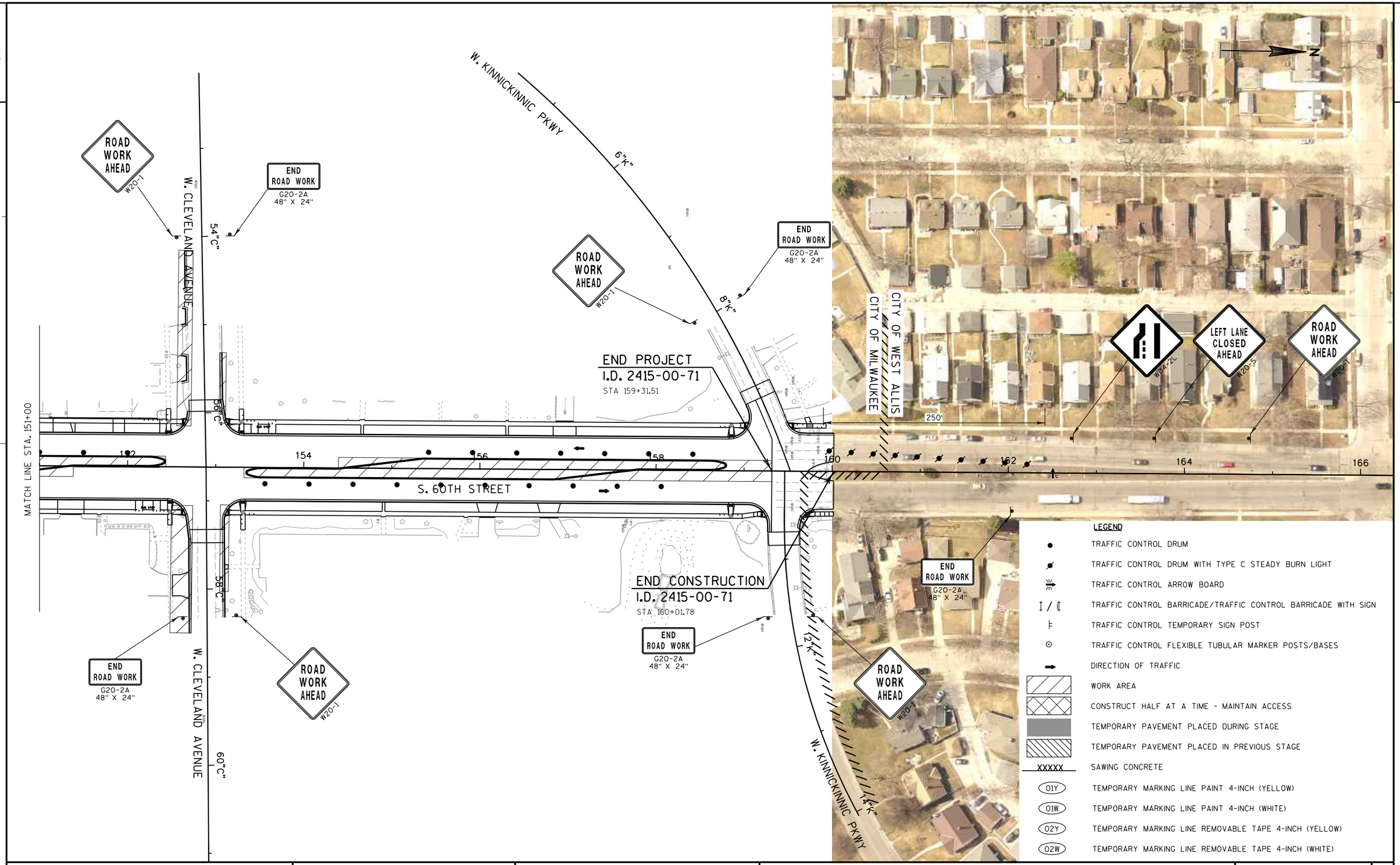
ROAD WORK AHEAD W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 3A	SHEET 204	E

2



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX — SAWING CONCRETE
- (01Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (01W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (02Y) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (02W) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 3A	SHEET 205	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\026305_s3a.dgn
PLOT DATE : 7/3/2018
PLOT BY : plr
PLOT NAME :
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 42

LEGEND

- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE

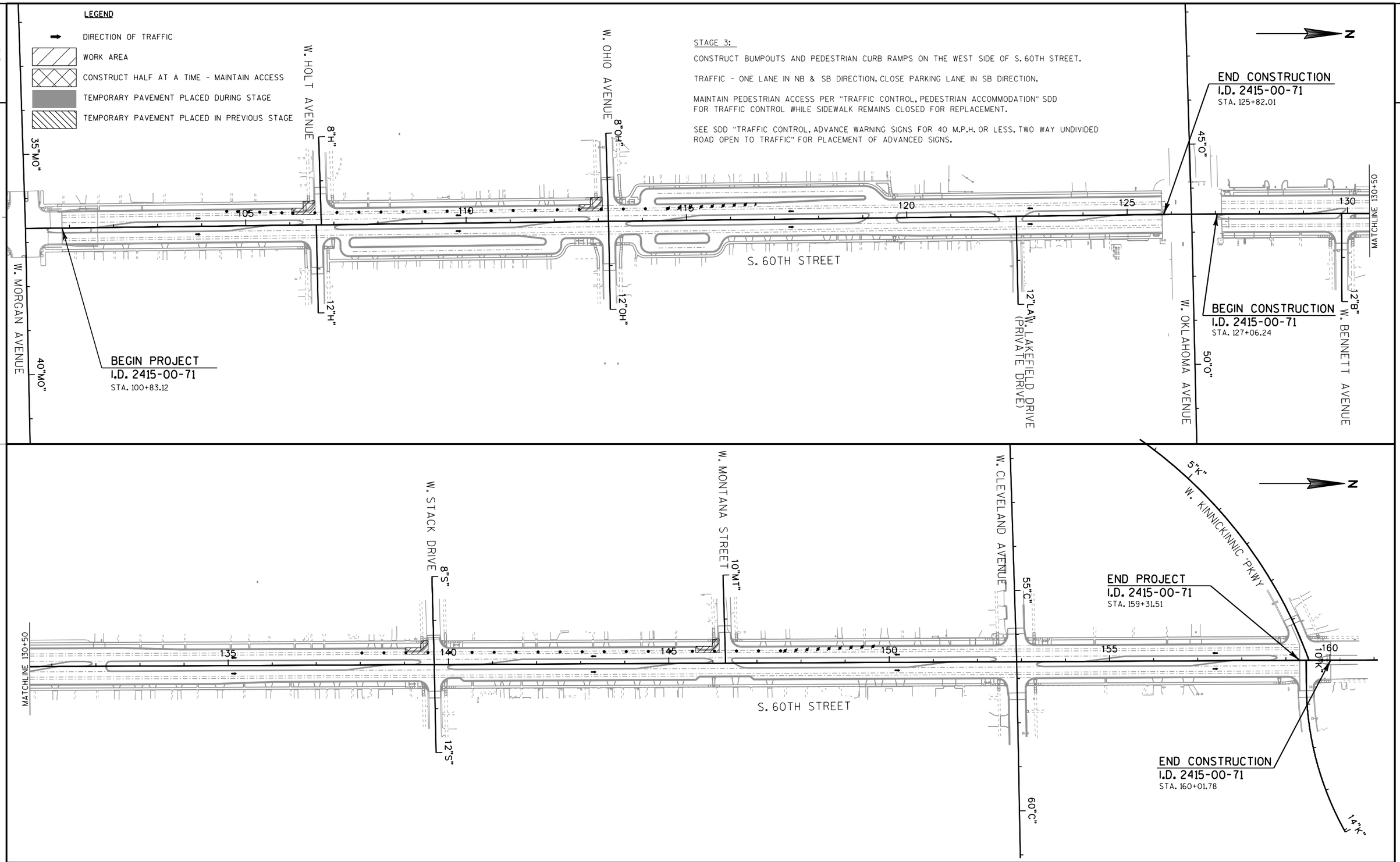
STAGE 3:

CONSTRUCT BUMPOUTS AND PEDESTRIAN CURB RAMPS ON THE WEST SIDE OF S. 60TH STREET.

TRAFFIC - ONE LANE IN NB & SB DIRECTION. CLOSE PARKING LANE IN SB DIRECTION.

MAINTAIN PEDESTRIAN ACCESS PER "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" SDD FOR TRAFFIC CONTROL WHILE SIDEWALK REMAINS CLOSED FOR REPLACEMENT.

SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS FOR 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR PLACEMENT OF ADVANCED SIGNS.



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET OVERVIEW STAGE 3B	SHEET 206	E

2

N

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

34"MO"

36"MO"

102

104

S. 60TH STREET

MATCH LINE STA. 106+00

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

38"MO"

W. MORGAN AVENUE

40"MO"

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX — SAWING CONCRETE
- 01Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 3B	SHEET 207	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

80"H

SIDEWALK CLOSED R9-9 24" X 12"

W04-2R

RIGHT LANE CLOSED AHEAD W20-5

MATCH LINE STA. 106+00

MATCH LINE STA. 121+00

108 110 112 114 116 118 120

S. 60TH STREET

W. HOLT AVENUE

W. OHIO AVENUE

12"H

12"OH

LEGEND

●	TRAFFIC CONTROL DRUM
◪	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	TRAFFIC CONTROL ARROW BOARD
‡ / ‡	TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
⊧	TRAFFIC CONTROL TEMPORARY SIGN POST
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
➡	DIRECTION OF TRAFFIC
	WORK AREA
	CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
	TEMPORARY PAVEMENT PLACED DURING STAGE
	TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
XXXXX	SAWING CONCRETE
01Y	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
01W	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
02Y	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
02W	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 3B	SHEET 208	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

44"0"

END CONSTRUCTION
I.D. 2415-00-71
STA 125+82.01

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

46"0"

MATCH LINE STA. 121+00

122 124 126 128 130 132 134

S. 60TH STREET

MATCH LINE STA. 136+00

END ROAD WORK G20-2A 48" X 24"

12"LA"

W. LAKEFIELD DRIVE

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

48"0"

W. OKLAHOMA AVENUE

50"0"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

12"B"

W. BENNETT AVENUE

ROAD WORK AHEAD W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- (01Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (01W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (02Y) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (02W) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 3B	SHEET 209	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

8"S"

SIDEWALK CLOSED R9-9 24" X 12"

W. MONTANA STREET

10"MT"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

SIDEWALK CLOSED R9-9 24" X 12"

W04-2R

12"MT"

MATCH LINE STA. 136+00

138 140 142 144 146 148 150

S. 60TH STREET

MATCH LINE STA. 151+00

W. STACK DRIVE

12"S"

END ROAD WORK G20-2A 48" X 24"

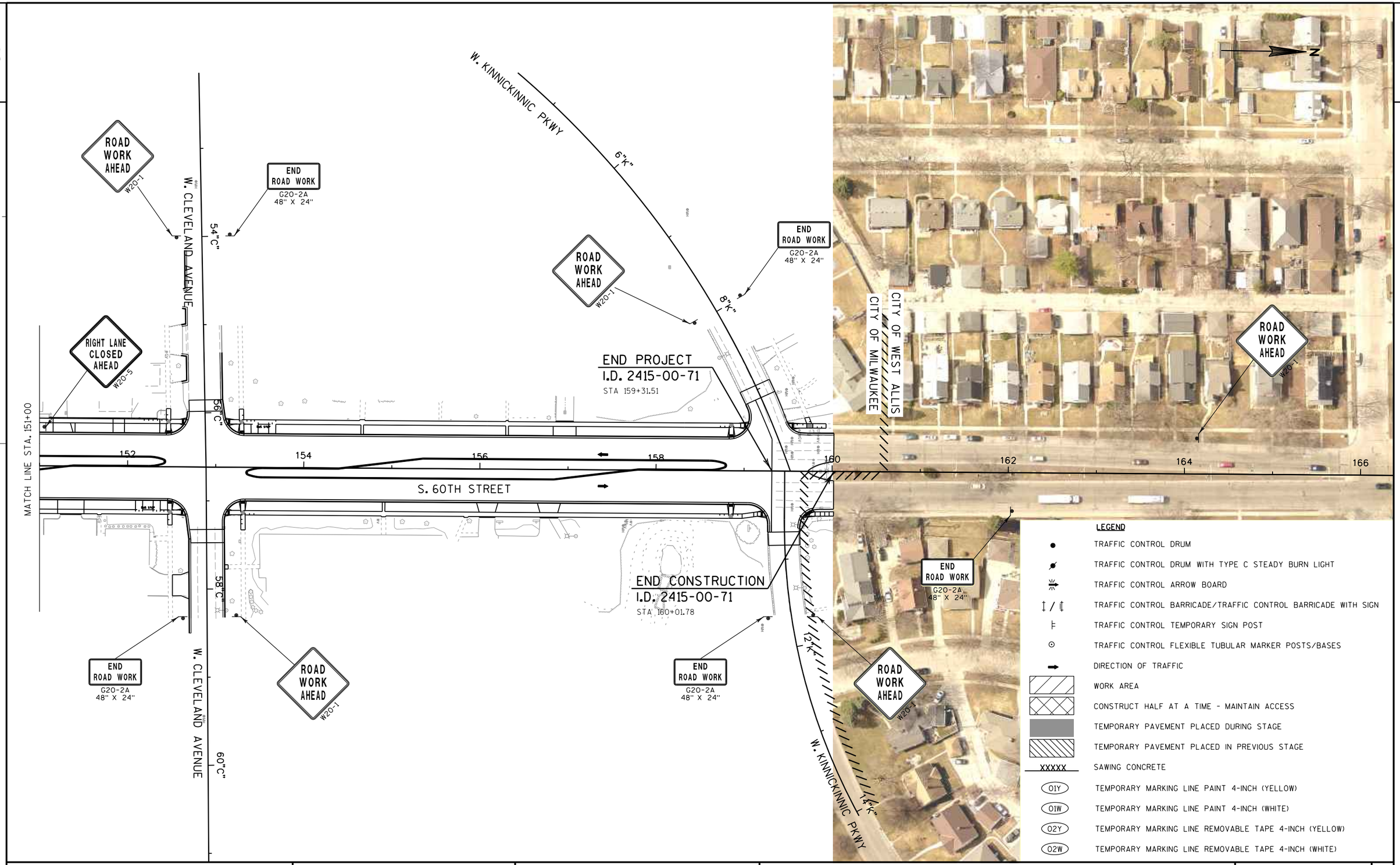
ROAD WORK AHEAD W20-1

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- 01Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 01W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 02Y TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 02W TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 3B	SHEET 210	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\026304_s3b.dgn PLOT DATE : 7/3/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:100



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL BARRICADE/TRAFFIC CONTROL BARRICADE WITH SIGN
- TRAFFIC CONTROL TEMPORARY SIGN POST
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- DIRECTION OF TRAFFIC
- WORK AREA
- CONSTRUCT HALF AT A TIME - MAINTAIN ACCESS
- TEMPORARY PAVEMENT PLACED DURING STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- XXXXX SAWING CONCRETE
- (01Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (01W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (02Y) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (02W) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - S. 60TH STREET STAGE 3B	SHEET 211	E

2

N

STA 10+00.00
N=364024.12
E=2535940.88

STA 20+00.00
N=366674.29
E=2535911.31

STA 36+67.89 =
STA 100+00.00
N=364115.12
E=2538607.21

STA 46+59.04=
STA 126+46.13
N=366760.97
E=2538568.93

30"MO"

N 88°02'43" E

35"MO"

40"O"

N 88°07'54" E

45"O"

8"H"

N 88°07'45" E

STA 106+71.50
STA 10"H"+00.00
N=364786.55
E=2538597.50

8"OH"

N 88°06'15" E

STA 113+23.26
STA 10"OH"+00.00
N=365438.24
E=2538588.07

R/L S. 60TH ST

N 00°49'44" W

STA 122+48.07
STA 10"LA"+00.00
N=366362.96
E=2538574.69

END CONSTRUCTION
I.D. 2415-00-71
STA. 125+82.01

105

110

115

120

125

130

S. 60TH STREET

R/L W. LAKEFIELD DRIVE

N 89°37'53" E

12"B"

R/L W. BENNETT AVE

W. BENNETT AVENUE

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA. 127+06.24

W. LAKEFIELD DRIVE

12"LA"

STA 106+60.03
STA 10"H"+00.00
N=364775.08
E=2538597.66

N 88°34'05" E

W. HOLT AVENUE

12"H"

R/L W. HOLT AVE

N 88°43'42" E

12"OH"

R/L W. OHIO AVE

W. OHIO AVENUE

BEGIN PROJECT
I.D. 2415-00-71
STA. 100+83.12

W. MORGAN AVENUE

40"MO"

N 88°37'21" E

R/L W. MORGAN AVE

45"MO"

STA 63+18.70
N=364178.85
E=2541257.26

50"O"

N 88°33'45" E

R/L W. OKLAHOMA AVE

55"O"

W. OKLAHOMA AVENUE

STA 73+18.32
N=366827.69
E=2541227.38

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 212	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\027201_ad.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:200

2

CURVE 'K'1
PI STA = 5K+49.95
N = 369885.73
E = 2538051.33
DELTA = 52°54'58"
D = 5°25'19"
T = 525.90'
L = 975.95'
R = 1056.72'
PC STA = 0K+24.05
N = 369382.50
E = 2537898.58
PT STA = 10K+00.00
N = 370067.32
E = 2538544.88

CURVE 'K'2
PI STA = 12K+34.01
N = 370062.66
E = 2538778.93
DELTA = 29°04'23"
D = 8°17'58"
T = 179.01
L = 350.30'
R = 690.36'
PC STA = 10K+55.00
N = 370061.33
E = 2538599.93
PT STA = 14K+05.30
N = 370150.80
E = 2538934.73

T6N R21E 10

STA 30+00.00
N=369316.43
E=2535889.66

N

W. CLEVELAND AVENUE

N. 88°06'50" E

50"C"

CURVE 'K'1

5"K"

W. KINNICKINNIC PKWY

STA 159+52.56
STA 10"K"+00.00
N=370067.32
E=2538544.88

STA 179+39.94
N=372054.64
E=2538530.15

T6N R21E 3 2 10 11

T6N R21E 10 11 10 11

55"C"

END PROJECT
I.D. 2415-00-71
STA. 159+31.51

STA 56+61.57=
STA 152+89.15
N=369403.92
E=2538549.80

W. STACK DRIVE

8"S"

N 88°22'33" E

STA 139+67.73
STA 10"S"+00.00
N=368082.54
E=2538559.36

R/L S. 60TH ST

W. MONTANA STREET

10"MT"

N 88°10'51" E

R/L W. MONTANA ST

130 135 140 145 150 155 160

N. 00°24'53" E

S. 60TH STREET

N. 00°25'29" E

10"K"

STA 159+46.17
STA 10"K"+00.00
N=370060.92
E=2538544.93

STA 129+86.51
STA 10"B"+00.00
N=367101.35
E=2538566.46

R/L W. BENNETT AVE

12"B"

W. BENNETT AVENUE

N 88°40'13" E

12"S"

R/L W. STACK DRIVE

STA 146+28.86
STA 12"MT"+00.00
N=368743.65
E=2538554.58

END CONSTRUCTION
I.D. 2415-00-71
STA. 160+01.78

R/L W. KINNICKINNIC PKWY

CURVE 'K'2

14"K"

60"C"

N. 88°46'47" E

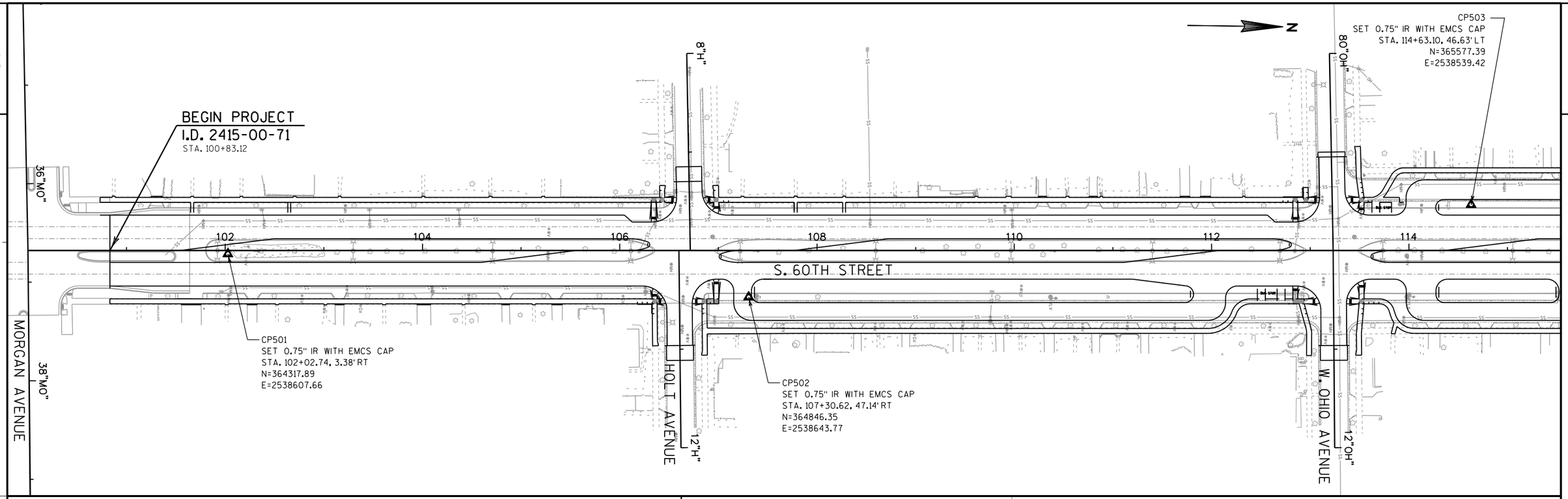
R/L W. CLEVELAND AVE

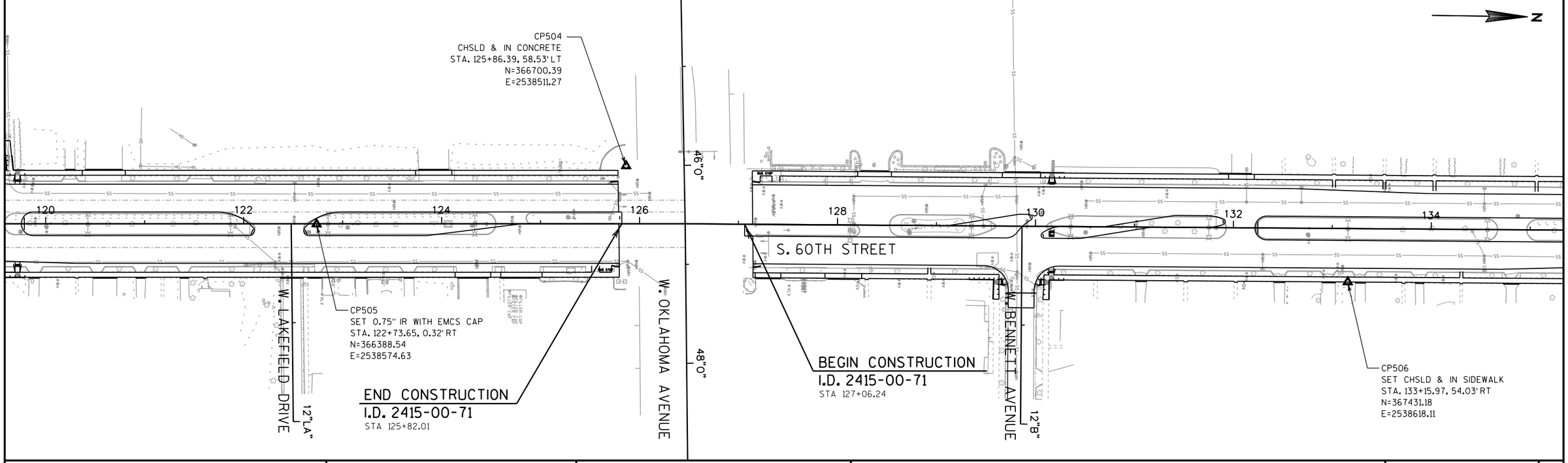
65"C"

T6N R21E 11

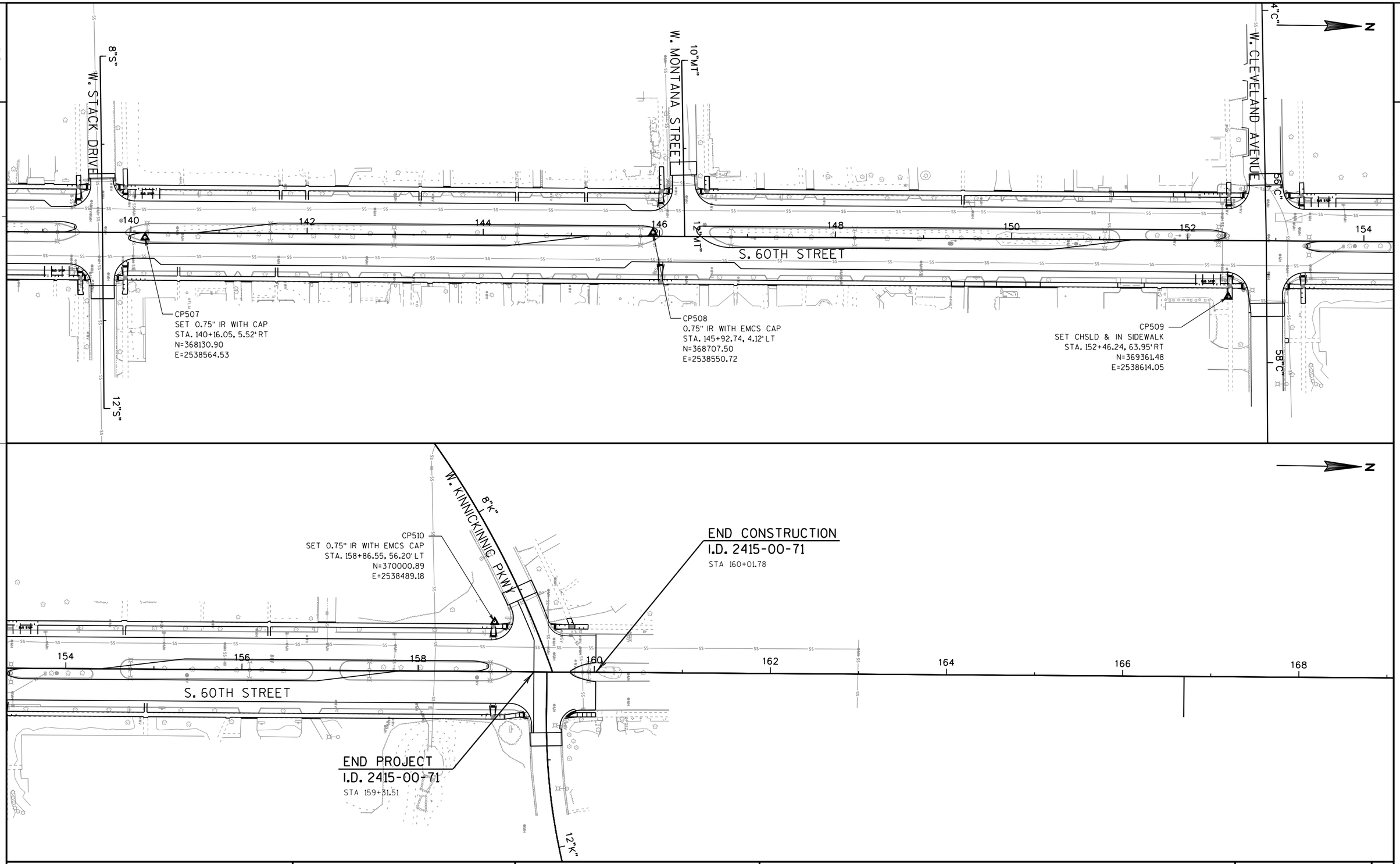
STA 83+15.06
N=369460.43
E=2541202.69

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 213	E





PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	SURVEY CONTROL	SHEET 214	E



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	SURVEY CONTROL	SHEET 215	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\027206_ad.dgn PLOT DATE : 7/2/2018 PLOT BY : plr PLOT NAME : PLOT SCALE : 1:100

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Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	2.000	2.000
0004	201.0120	Clearing	ID	779.000	779.000
0006	201.0205	Grubbing	STA	2.000	2.000
0008	201.0220	Grubbing	ID	779.000	779.000
0010	203.0200	Removing Old Structure (station) 001. 158+18.68	LS	1.000	1.000
0012	204.0100	Removing Pavement	SY	51,177.000	51,177.000
0014	204.0105	Removing Pavement Butt Joints	SY	547.000	547.000
0016	204.0120	Removing Asphaltic Surface Milling	SY	830.000	830.000
0018	204.0150	Removing Curb & Gutter	LF	526.000	526.000
0020	204.0155	Removing Concrete Sidewalk	SY	7,575.000	7,575.000
0022	204.0195	Removing Concrete Bases	EACH	52.000	52.000
0024	204.0210	Removing Manholes	EACH	2.000	2.000
0026	204.0220	Removing Inlets	EACH	90.000	90.000
0028	204.0245	Removing Storm Sewer (size) 001. 8-Inch	LF	1,860.000	1,860.000
0030	204.0245	Removing Storm Sewer (size) 002. 12-Inch	LF	118.000	118.000
0032	204.0245	Removing Storm Sewer (size) 003. 15-Inch	LF	13.000	13.000
0034	204.0245	Removing Storm Sewer (size) 004. 60-Inch	LF	70.000	70.000
0036	204.0245	Removing Storm Sewer (size) 005. 30-Inch	LF	41.000	41.000
0038	204.0250	Abandoning Manholes	EACH	1.000	1.000
0040	204.0280	Sealing Pipes	EACH	2.000	2.000
0042	205.0100	Excavation Common	CY	30,678.000	30,678.000
0044	209.2500	Backfill Granular Grade 2	TON	410.000	410.000
0046	213.0100	Finishing Roadway (project) 001. 2415.00-71	EACH	1.000	1.000
0048	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	22,135.000	22,135.000
0050	415.0080	Concrete Pavement 8-Inch	SY	39,779.000	39,779.000
0052	415.0210	Concrete Pavement Gaps	EACH	2.000	2.000
0054	415.5110.S	Concrete Pavement Joint Layout	LS	1.000	1.000
0056	416.0170	Concrete Driveway 7-Inch	SY	1,547.000	1,547.000
0058	416.0610	Drilled Tie Bars	EACH	184.000	184.000
0060	416.0620	Drilled Dowel Bars	EACH	424.000	424.000
0062	455.0605	Tack Coat	GAL	96.000	96.000
0064	460.2000	Incentive Density HMA Pavement	DOL	90.000	90.000
0066	460.5224	HMA Pavement 4 LT 58-28 S	TON	132.000	132.000
0068	465.0125	Asphaltic Surface Temporary	TON	789.000	789.000
0070	465.0310	Asphaltic Curb	LF	244.000	244.000
0072	504.0900	Concrete Masonry Endwalls	CY	6.000	6.000
0074	520.8000	Concrete Collars for Pipe	EACH	4.000	4.000
0076	601.0319	Concrete Curb & Gutter 19-Inch	LF	10,116.000	10,116.000
0078	601.0331	Concrete Curb & Gutter 31-Inch	LF	14,526.000	14,526.000
0080	601.0600	Concrete Curb Pedestrian	LF	264.000	264.000

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Line	Item	Item Description	Unit	Total	Qty
0082	602.0410	Concrete Sidewalk 5-Inch	SF	61,412.000	61,412.000
0084	602.0420	Concrete Sidewalk 7-Inch	SF	3,008.000	3,008.000
0086	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	500.000	500.000
0088	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	20.000	20.000
0090	606.0300	Riprap Heavy	CY	166.000	166.000
0092	608.0360	Storm Sewer Pipe Reinforced Concrete Class III 60-Inch	LF	156.000	156.000
0094	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	1,454.000	1,454.000
0096	611.0420	Reconstructing Manholes	EACH	24.000	24.000
0098	611.1003	Catch Basins 3-FT Diameter	EACH	25.000	25.000
0100	611.1004	Catch Basins 4-FT Diameter	EACH	5.000	5.000
0102	611.2003	Manholes 3-FT Diameter	EACH	10.000	10.000
0104	611.2004	Manholes 4-FT Diameter	EACH	2.000	2.000
0106	611.2005	Manholes 5-FT Diameter	EACH	2.000	2.000
0108	611.2008	Manholes 8-FT Diameter	EACH	4.000	4.000
0110	611.8120.S	Cover Plates Temporary	EACH	4.000	4.000
0112	618.0100	Maintenance And Repair of Haul Roads (project) 001. 2415-00-71	EACH	1.000	1.000
0114	619.1000	Mobilization	EACH	1.000	1.000
0116	620.0300	Concrete Median Sloped Nose	SF	426.000	426.000
0118	624.0100	Water	MGAL	322.000	322.000
0120	625.0100	Topsoil	SY	20,508.000	20,508.000
0122	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000
0124	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0126	628.2008	Erosion Mat Urban Class I Type B	SY	401.000	401.000
0128	628.7005	Inlet Protection Type A	EACH	77.000	77.000
0130	628.7010	Inlet Protection Type B	EACH	162.000	162.000
0132	629.0210	Fertilizer Type B	CWT	14.000	14.000
0134	631.0300	Sod Water	MGAL	461.000	461.000
0136	631.1000	Sod Lawn	SY	20,508.000	20,508.000
0138	632.0101	Trees (species) (size) (root) 001. Cleveland Select Pear 3" B&B	EACH	13.000	13.000
0140	632.0101	Trees (species) (size) (root) 002. Common Bald-Cypress 3"B&B	EACH	9.000	9.000
0142	632.0101	Trees (species) (size) (root) 003. Ivory Silk Lilac 3" B&B	EACH	10.000	10.000
0144	632.0101	Trees (species) (size) (root) 004. Red Bud 3" B&B	EACH	3.000	3.000
0146	632.0101	Trees (species) (size) (root) 005. Sunburst Honey Locust 3" B&B	EACH	7.000	7.000
0148	632.0101	Trees (species) (size) (root) 006. Freeman Maple 3" B&B	EACH	2.000	2.000

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Line	Item	Item Description	Unit	Total	Qty
0150	632.0101	Trees (species) (size) (root) 007. Service Berry 3" B&B	EACH	4.000	4.000
0152	632.0101	Trees (species) (size) (root) 008. Kentucky Coffee 3" B&B	EACH	2.000	2.000
0154	632.0101	Trees (species) (size) (root) 009. English Oak 3" B&B	EACH	1.000	1.000
0156	632.0101	Trees (species) (size) (root) 010. Horse Chestnut 3" B&B	EACH	7.000	7.000
0158	632.0101	Trees (species) (size) (root) 011. Hawthorn Thornless 3" B&B	EACH	2.000	2.000
0160	632.0101	Trees (species) (size) (root) 012. Catalpa 3" B&B	EACH	3.000	3.000
0162	632.0101	Trees (species) (size) (root) 013. River/Yellow Birch 3" B&B	EACH	1.000	1.000
0164	632.0101	Trees (species) (size) (root) 014. Geditsia Shademaster	EACH	1.000	1.000
0166	632.0101	Trees (species) (size) (root) 015. Malus Prairiefire	EACH	2.000	2.000
0168	632.0201	Shrubs (species) (size) (root) 001. Golden American Elderberry #5 CG	EACH	6.000	6.000
0170	632.0201	Shrubs (species) (size) (root) 002. Hydrangea Annabelle #2 CG	EACH	20.000	20.000
0172	632.0201	Shrubs (species) (size) (root) 003. Red Knockout Rose #2 CG	EACH	22.000	22.000
0174	632.0201	Shrubs (species) (size) (root) 004. Peony Kansas #5 CG	EACH	18.000	18.000
0176	632.0201	Shrubs (species) (size) (root) 005. Nine Bark Diablo #2 CG	EACH	8.000	8.000
0178	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	10.000	10.000
0180	638.2602	Removing Signs Type II	EACH	99.000	99.000
0182	638.3000	Removing Small Sign Supports	EACH	50.000	50.000
0184	642.5201	Field Office Type C	EACH	1.000	1.000
0186	643.0300	Traffic Control Drums	DAY	27,366.000	27,366.000
0188	643.0420	Traffic Control Barricades Type III	DAY	4,237.000	4,237.000
0190	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	34.000	34.000
0192	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	34.000	34.000
0194	643.0705	Traffic Control Warning Lights Type A	DAY	5,814.000	5,814.000
0196	643.0715	Traffic Control Warning Lights Type C	DAY	10,689.000	10,689.000
0198	643.0800	Traffic Control Arrow Boards	DAY	173.000	173.000
0200	643.0900	Traffic Control Signs	DAY	3,286.000	3,286.000
0202	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0204	643.5000	Traffic Control	EACH	1.000	1.000
0206	644.1410.S	Temporary Pedestrian Surface Asphalt	SF	3,360.000	3,360.000
0208	644.1420.S	Temporary Pedestrian Surface Plywood	SF	1,500.000	1,500.000
0210	644.1430.S	Temporary Pedestrian Surface Plate	SF	1,800.000	1,800.000
0212	644.1601.S	Temporary Curb Ramp	EACH	56.000	56.000

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Line	Item	Item Description	Unit	Total	Qty
0214	644.1616.S	Temporary Pedestrian Safety Fence	LF	150.000	150.000
0216	645.0120	Geotextile Type HR	SY	293.000	293.000
0218	646.1020	Marking Line Epoxy 4-Inch	LF	12,820.000	12,820.000
0220	646.3020	Marking Line Epoxy 8-Inch	LF	1,400.000	1,400.000
0222	646.5020	Marking Arrow Epoxy	EACH	16.000	16.000
0224	646.5220	Marking Symbol Epoxy	EACH	16.000	16.000
0226	646.8120	Marking Curb Epoxy	LF	1,143.000	1,143.000
0228	646.8220	Marking Island Nose Epoxy	EACH	26.000	26.000
0230	646.9000	Marking Removal Line 4-Inch	LF	1,000.000	1,000.000
0232	646.9300	Marking Removal Special Marking	EACH	5.000	5.000
0234	649.0105	Temporary Marking Line Paint 4-Inch	LF	22,697.000	22,697.000
0236	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	21,596.000	21,596.000
0238	650.4000	Construction Staking Storm Sewer	EACH	121.000	121.000
0240	650.4500	Construction Staking Subgrade	LF	12,826.000	12,826.000
0242	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	142.000	142.000
0244	650.7000	Construction Staking Concrete Pavement	LF	12,826.000	12,826.000
0246	650.8500	Construction Staking Electrical Installations (project) 001. 2415-00-71	LS	1.000	1.000
0248	650.9000	Construction Staking Curb Ramps	EACH	49.000	49.000
0250	650.9910	Construction Staking Supplemental Control (project) 001. 2415-00-71	LS	1.000	1.000
0252	650.9920	Construction Staking Slope Stakes	LF	12,826.000	12,826.000
0254	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	8,780.000	8,780.000
0256	652.0330	Conduit Rigid Nonmetallic Schedule 80 2 1/2-Inch	LF	300.000	300.000
0258	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	1,615.000	1,615.000
0260	652.0615	Conduit Special 3-Inch	LF	650.000	650.000
0262	654.0101	Concrete Bases Type 1	EACH	6.000	6.000
0264	654.0105	Concrete Bases Type 5	EACH	41.000	41.000
0266	654.0110	Concrete Bases Type 10	EACH	4.000	4.000
0268	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,165.000	1,165.000
0270	655.0270	Cable Traffic Signal 15-14 AWG	LF	790.000	790.000
0272	655.0305	Cable Type UF 2-12 AWG Grounded	LF	3,100.000	3,100.000
0274	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	800.000	800.000
0276	655.0900	Traffic Signal EVP Detector Cable	LF	820.000	820.000
0278	657.0100	Pedestal Bases	EACH	6.000	6.000
0280	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	41.000	41.000
0282	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	6.000	6.000
0284	657.0615	Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	EACH	82.000	82.000
0286	658.0173	Traffic Signal Face 3S 12-Inch	EACH	16.000	16.000
0288	658.0412	Pedestrian Signal Face 12-Inch	EACH	8.000	8.000

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Line	Item	Item Description	Unit	Total	Qty
0290	658.0500	Pedestrian Push Buttons	EACH	4.000	4.000
0292	658.5069	Signal Mounting Hardware (location) 001. S 60th Street & Cleveland Avenue	LS	1.000	1.000
0294	690.0150	Sawing Asphalt	LF	589.000	589.000
0296	690.0250	Sawing Concrete	LF	8,215.000	8,215.000
0298	715.0415	Incentive Strength Concrete Pavement	DOL	11,934.000	11,934.000
0300	715.0710	Optimized Aggregate Gradation Incentive	DOL	33,586.000	33,586.000
0302	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,800.000	1,800.000
0304	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	3,000.000	3,000.000
0306	SPV.0060	Special 001. Section Corner Monuments	EACH	1.000	1.000
0308	SPV.0060	Special 005. Water Main Protection	EACH	27.000	27.000
0310	SPV.0060	Special 020. Temporary Bus Loading Zone	EACH	11.000	11.000
0312	SPV.0060	Special 030. Storm Inlet Type 45A	EACH	49.000	49.000
0314	SPV.0060	Special 031. Inlet Cover Type MS 57	EACH	53.000	53.000
0316	SPV.0060	Special 032. Curb Inlet Type 70A	EACH	24.000	24.000
0318	SPV.0060	Special 033. Manhole Cover Type MS 58-A	EACH	115.000	115.000
0320	SPV.0060	Special 034. Internal Sanitary Manhole Seals	EACH	53.000	53.000
0322	SPV.0060	Special 035. Adjusting Sanitary Manholes	EACH	53.000	53.000
0324	SPV.0060	Special 036. Adjusting Water Box	EACH	106.000	106.000
0326	SPV.0060	Special 037. Adjusting Water Manhole	EACH	12.000	12.000
0328	SPV.0060	Special 038. Reinforced Concrete Collars	EACH	1.000	1.000
0330	SPV.0060	Special 051. Marking Arrow Grooved Preformed Plastic	EACH	2.000	2.000
0332	SPV.0060	Special 052. Marking Word Grooved Preformed Plastic	EACH	2.000	2.000
0334	SPV.0060	Special 070. Install City Furnished Sign	EACH	158.000	158.000
0336	SPV.0060	Special 080. Karl Forester Grass #1 CG	EACH	72.000	72.000
0338	SPV.0060	Special 081. Day Lilies #1 CG	EACH	48.000	48.000
0340	SPV.0060	Special 082. Day Lilies Strawberry Fields #1 CG	EACH	64.000	64.000
0342	SPV.0060	Special 083. Day Lilies Stella D'Oro #1 CG	EACH	2.000	2.000
0344	SPV.0060	Special 084. Signature Bed	EACH	3.000	3.000
0346	SPV.0060	Special 200. Install City Precast Controller Base 36"x21"x20"	EACH	1.000	1.000
0348	SPV.0060	Special 205. ATC Controller and Cabinet Installed	EACH	1.000	1.000
0350	SPV.0060	Special 212. Fiber Optic Patch Panel	EACH	1.000	1.000
0352	SPV.0060	Special 213. Ethernet Switch	EACH	1.000	1.000
0354	SPV.0060	Special 218. EVP 1 Channel 1 Direction Infrared Detector	EACH	4.000	4.000
0356	SPV.0060	Special 221. EVP Phase Selector Card 4 Channel	EACH	1.000	1.000
0358	SPV.0060	Special 223. EVP Confirmation Light Assembly	EACH	4.000	4.000
0360	SPV.0060	Special 224. Vehicular Video Detection System	EACH	2.000	2.000
0362	SPV.0060	Special 246. Poles Type 10	EACH	4.000	4.000

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Line	Item	Item Description	Unit	Total	Qty
0364	SPV.0060	Special 258. Monotube Arm 20'	EACH	4.000	4.000
0366	SPV.0060	Special 265. Utility Line Opening (ULO)	EACH	5.000	5.000
0368	SPV.0060	Special 267. Pedestrian Countdown Signal Face 12-Inch	EACH	8.000	8.000
0370	SPV.0060	Special 302. Pull Box 13-Inch x 24-Inch x 24-Inch	EACH	46.000	46.000
0372	SPV.0060	Special 303. Pull Box 17-Inch x 30-Inch x 24-Inch	EACH	12.000	12.000
0374	SPV.0060	Special 322. Poles Type 14-Aluminum 25-Ft.	EACH	41.000	41.000
0376	SPV.0060	Special 345. Luminaire Arms Single Member 6-FT	EACH	2.000	2.000
0378	SPV.0060	Special 346. Luminaire Arms Single Member 8-FT	EACH	4.000	4.000
0380	SPV.0060	Special 375. Luminaire Utility LED 2	EACH	88.000	88.000
0382	SPV.0060	Special 400. Adjusting CUC Manhole Covers	EACH	8.000	8.000
0384	SPV.0060	Special 425. Installing Conduit Into Existing Manhole	EACH	2.000	2.000
0386	SPV.0060	Special 641.Catmint Blue Wonder #1 CG	EACH	68.000	68.000
0388	SPV.0060	Special 644. Russian Sage #1 CG	EACH	18.000	18.000
0390	SPV.0060	Special 650. Dwarf Daylillies Happy Returns #1 CG	EACH	1.000	1.000
0392	SPV.0060	Special 651. Zagreb Coreopsis	EACH	18.000	18.000
0394	SPV.0090	Special 040. Heavy Duty Silt Fence	LF	139.000	139.000
0396	SPV.0090	Special 050. Marking Line Epoxy 6-Inch	LF	10,731.000	10,731.000
0398	SPV.0090	Special 051. Marking Diagonal Epoxy 4-Inch	LF	429.000	429.000
0400	SPV.0090	Special 052. Marking Crosswalk Grooved Preformed Plastic 12-Inch	LF	913.000	913.000
0402	SPV.0090	Special 053. Marking Stop Line Grooved Preformed Plastic 24-Inch	LF	204.000	204.000
0404	SPV.0090	Special 054. Marking Crosswalk Grooved Preformed Plastic Ladder Pattern 24-Inch	LF	174.000	174.000
0406	SPV.0090	Special 085. Fieldstone Boulder Wall	LF	120.000	120.000
0408	SPV.0090	Special 306. Cable Type 3#6/1#8 LTP	LF	850.000	850.000
0410	SPV.0090	Special 307. Cable type 3#4/1#8 LTP	LF	3,600.000	3,600.000
0412	SPV.0090	Special 308. Cable Type 3#2/1#8 LTP	LF	3,360.000	3,360.000
0414	SPV.0090	Special 321. Cable Type #2 AL 15KV CONCENTRIC	LF	350.000	350.000
0416	SPV.0090	Special 402. 2-Duct Conduit Cement Encased 4-Inch Rigid Nonmentallic Conduit DB-60	LF	133.000	133.000
0418	SPV.0105	Special 202. Remove Traffic Signal Equipment	LS	1.000	1.000
0420	SPV.0165	Special 001. Construction Staking Sidewalk	SF	64,400.000	64,400.000
0422	SPV.0180	Special 001. Joint Sealing	SY	39,779.000	39,779.000

CLEARING AND GRUBBING ITEMS

					201.0105	201.0120	201.0205	201.0220	
CATEGORY	STAGE	LOCATION	STATION	OFFSET	CLEARING STA	CLEARING ID	GRUBBING STA	GRUBBING ID	COMMENTS
0010	1	S 60TH ST	102+35	RT	--	7	--	7	MEDIAN
			102+67	RT	--	5	--	5	MEDIAN
			103+13	RT	--	2	--	2	MEDIAN
			103+46	RT	--	3	--	3	MEDIAN
			103+64	RT	--	3	--	3	MEDIAN
			103+80	RT	--	3	--	3	MEDIAN
			104+02	RT	--	25	--	25	MEDIAN
			104+35	RT	--	3	--	3	MEDIAN
			104+57	RT	--	3	--	3	MEDIAN
			104+91	RT	--	3	--	3	MEDIAN
			105+19	LT	--	9	--	9	MEDIAN
			105+43	RT	--	9	--	9	MEDIAN
			105+67	`	--	8	--	8	MEDIAN
			105+96	RT	--	2	--	2	MEDIAN
			107+60	RT	--	6	--	6	MEDIAN
			107+96	LT	--	16	--	16	MEDIAN
			108+26	LT	--	6	--	6	MEDIAN
			110+02	LT	--	12	--	12	TERRACE
			110+26	RT	--	3	--	3	MEDIAN
			110+50	LT	--	2	--	2	MEDIAN
			110+86	LT	--	15	--	15	MEDIAN
			111+10	LT	--	2	--	2	MEDIAN
			111+25	LT	--	3	--	3	MEDIAN
			111+55	RT	--	2	--	2	MEDIAN
			111+74	LT	--	2	--	2	MEDIAN
			111+92	RT	--	2	--	2	MEDIAN
			112+40	LT	--	6	--	6	MEDIAN
			112+56	LT	--	6	--	6	MEDIAN
			113+90	LT	--	2	--	2	MEDIAN
			114+06	LT	--	2	--	2	MEDIAN
			114+35	LT/RT	--	8	--	8	MEDIAN
			114+54	LT/RT	--	10	--	10	MEDIAN
			114+79	RT	--	8	--	8	MEDIAN
			119+84	LT	--	36	--	36	MEDIAN
			120+65	LT/RT	--	3	--	3	MEDIAN
			120+89	LT/RT	--	6	--	6	MEDIAN
			121+29	LT/RT	--	1	--	1	MEDIAN
			121+52	LT	--	3	--	3	MEDIAN
			121+75	LT	--	3	--	3	MEDIAN
			122+97	RT	--	3	--	3	MEDIAN
			123+16	LT	--	36	--	36	MEDIAN
			123+35	RT	--	3	--	3	MEDIAN
			123+55	RT	--	4	--	4	MEDIAN
			128+83	RT	--	5	--	5	MEDIAN
			130+86	LT	--	11	--	11	MEDIAN
			131+19	LT	--	4	--	4	MEDIAN
			131+31	RT	--	4	--	4	MEDIAN
			131+45	LT	--	3	--	3	MEDIAN
			131+60	RT	--	3	--	3	MEDIAN
			133+43	LT	--	20	--	20	TERRACE
			136+84	LT	--	3	--	3	MEDIAN
			137+22	RT	--	4	--	4	MEDIAN
			138+03	LT	--	10	--	10	MEDIAN
			138+29	LT	--	2	--	2	MEDIAN
			138+58	LT	--	12	--	12	MEDIAN
			138+80	LT	--	4	--	4	MEDIAN
			139+04	LT	--	3	--	3	MEDIAN
			140+42	RT	--	3	--	3	MEDIAN
			140+76	RT	--	6	--	6	MEDIAN
			144+24	RT	--	6	--	6	MEDIAN
			144+71	RT	--	7	--	7	MEDIAN
			144+95	LT	--	4	--	4	MEDIAN
			145+18	RT	--	5	--	5	MEDIAN
			145+42	LT	--	7	--	7	MEDIAN
			145+64	LT	--	3	--	3	MEDIAN
			148+59	RT	--	8	--	8	MEDIAN
			148+95	RT	--	3	--	3	MEDIAN
			150+24	RT	--	16	--	16	MEDIAN
			150+89	RT	--	5	--	5	MEDIAN
			151+65	LT	--	2	--	2	MEDIAN
			151+80	LT	--	2	--	2	MEDIAN
			152+02	LT	--	2	--	2	MEDIAN
			153+85	RT	--	2	--	2	MEDIAN
			154+02	RT	--	1	--	1	MEDIAN
			154+18	RT	--	1	--	1	MEDIAN
			155+11	LT	--	8	--	8	MEDIAN
			155+95	LT/RT	--	4	--	4	MEDIAN
			156+20	LT	--	24	--	24	TERRACE
			156+24	LT/RT	--	36	--	36	MEDIAN
			156+49	RT	--	12	--	12	MEDIAN
			157+60	LT	--	4	--	4	MEDIAN
			157+80	LT	--	3	--	3	MEDIAN
			158+03	LT	--	9	--	9	MEDIAN
			158+20	LT	--	9	--	9	TERRACE
			158+44	LT	--	4	--	4	MEDIAN
			160+55	LT/RT	--	6	--	6	MEDIAN
SUBTOTAL					--	586	--	586	

CONTINUED ON NEXT PAGE

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CLEARING AND GRUBBING ITEMS

CATEGORY	STAGE	LOCATION	STATION	OFFSET	201.0105 CLEARING STA	201.0120 CLEARING ID	201.0205 GRUBBING STA	201.0220 GRUBBING ID	COMMENTS
0010	2	S 60TH ST	104+53	RT	--	24	--	24	TERRACE
			119+03	RT	--	16	--	16	TERRACE
			120+22	RT	--	21	--	21	TERRACE
			120+75	RT	--	19	--	19	TERRACE
			121+87	RT	--	21	--	21	TERRACE
			123+42	RT	--	17	--	17	TERRACE
			157+00 - 159+00	RT	2	--	2	--	SEE "STORM SEWER OUTFALL DETAIL" FOR LIMITS
		SUBTOTAL			2	118	2	118	
		CATEGORY TOTAL			2	704	2	704	
0020	1	S 60TH ST	114+33	LT	--	2	--	2	FRONTAGE ROAD MEDIAN
			115+89	LT	--	23	--	23	TERRACE
			116+78	LT	--	21	--	21	TERRACE
		SUBTOTAL			--	46	--	46	
	2	S 60TH ST	108+00	RT	--	7	--	7	FRONTAGE ROAD MEDIAN
			112+01	RT	--	22	--	22	TERRACE
		SUBTOTAL			--	29	--	29	
		CATEGORY TOTAL			--	75	--	75	
		PROJECT TOTAL			2	779	2	779	

REMOVING PAVEMENT

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO	STATION	OFFSET	204.0100 SY	COMMENTS
0010	1	S 60TH ST	100+83	-		106+65	LT/RT	2,888	SB LANES/CURB & GUTTER
			106+65	-		113+23	LT/RT	2,779	SB LANES/CURB & GUTTER
			113+23	-		125+82	LT/RT	5,358	SB LANES/CURB & GUTTER
			127+06	-		139+67	LT/RT	5,222	SB LANES/CURB & GUTTER
			139+67	-		146+28	LT	2,615	SB LANES/CURB & GUTTER
			146+28	-		152+89	LT/RT	3,006	SB LANES/CURB & GUTTER
			152+89	-		159+32	LT/RT	3,111	SB LANES/CURB & GUTTER
		SUBTOTAL						24,979	
	2	S 60TH ST	100+83	-		106+65	RT	2,231	NB LANES/CURB & GUTTER
			106+65	-		113+23	RT	2,818	NB LANES/CURB & GUTTER
			113+23	-		125+82	RT	5,126	NB LANES/CURB & GUTTER
			127+06	-		139+67	RT	4,991	NB LANES/CURB & GUTTER
			139+67	-		146+28	RT	2,652	NB LANES/CURB & GUTTER
			146+28	-		152+89	RT	2,568	NB LANES/CURB & GUTTER
			152+89	-		159+32	RT	2,383	NB LANES/CURB & GUTTER
		SUBTOTAL						22,769	
		CATEGORY TOTAL						47,748	
0020	1	S 60TH ST	113+65	-		119+07	LT	1,445	FRONTAGE ROAD/CURB & GUTTER
		SUBTOTAL						1,445	
	2	S 60TH ST	107+10	-		112+80	RT	1,497	FRONTAGE ROAD/CURB & GUTTER
			113+68	-		115+50	RT	487	FRONTAGE ROAD/CURB & GUTTER
		SUBTOTAL						1,984	
		CATEGORY TOTAL						3,429	
		PROJECT TOTAL						51,177	

REMOVING CONCRETE SIDEWALK

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO	STATION	OFFSET	204.0155 SY	COMMENTS
0010	1	S 60TH ST	100+83	-		106+65	LT	380	
			106+65	-		113+23	LT	434	
			113+23	-		125+82	LT	451	
			127+06	-		139+67	LT	846	
			139+67	-		146+28	LT	457	
			146+28	-		152+89	LT	424	
			152+89	-		159+86	LT	380	
		SUBTOTAL						3,372	
	2	S 60TH ST	100+83	-		106+65	RT	409	
			106+65	-		113+23	RT	69	
			113+23	-		125+82	RT	645	
			127+06	-		139+67	RT	803	
			139+67	-		146+28	RT	449	
			146+28	-		152+89	RT	428	
			152+89	-		159+92	RT	379	
		SUBTOTAL						3,182	
		CATEGORY TOTAL						6,554	
0020	1	S 60TH ST	113+65	-		119+07	LT	442	
		SUBTOTAL						442	
	2	S 60TH ST	107+10	-		112+80	RT	379	
			113+68	-		116+00	RT	200	
		SUBTOTAL						579	
		CATEGORY TOTAL						1,021	
		PROJECT TOTAL						7,575	

REMOVING OLD STRUCTURE (STATION)

CATEGORY	LOCATION	203.0200 LS	COMMENTS
0010	S 60TH ST	1	STA 158+18.68

REMOVING STORM SEWER

CATEGORY	LOCATION	204.0245.005 REMOVING STORM SEWER 30-INCH LF	COMMENTS
0010	S 60TH ST	41	CMCP FILLED WITH CONCRETE

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REMOVING DRAINAGE ITEMS

CATEGORY	STAGE	LOCATION	STATION TO		STATION	OFFSET	ALIGNMENT	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0250 ABANDONING MANHOLES EACH	204.0280* SEALING PIPES EACH	COMMENTS
0010	1	S 60TH ST	100+83	-	106+65	LT/RT		--	7	1	--	
			106+65	-	113+23	LT/RT		--	5	--	--	
			113+23	-	125+82	LT/RT		--	2	--	1	
			127+06	-	139+67	LT/RT		--	12	--	--	
			139+67	-	146+28	LT/RT		--	4	--	--	
			146+28	-	152+89	LT/RT		--	6	--	--	
			152+89	-	160+01	LT/RT		--	9	--	--	
		SUBTOTAL						--	45	1	1	
	2	S 60TH ST	100+83	-	106+65	LT/RT		1	3	--	--	
			106+65	-	113+23	LT/RT		--	3	--	--	
			113+23	-	125+82	LT/RT		--	6	--	--	
			127+06	-	139+67	LT/RT		--	12	--	--	
			139+67	-	146+28	LT/RT		--	4	--	--	
			146+28	-	152+89	LT/RT		--	3	--	--	
			152+89	-	160+01	LT/RT		--	4	--	--	
		SUBTOTAL						1	35	--	--	
		CATEGORY TOTAL						1	80	1	1	
0020	1	S 60TH ST	113+23	-	125+82	LT		--	5	--	--	
		SUBTOTAL						--	5	--	--	
	2	S 60TH ST	106+65	-	113+23	RT		--	2	--	--	
			113+23	-	125+82	RT		1	3	--	--	
		SUBTOTAL						1	5	--	--	
		CATEGORY TOTAL						1	10	--	--	
		PROJECT TOTAL						2	90	1	1	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVING CURB & GUTTER

CATEGORY	STAGE	LOCATION	STATION TO		STATION	OFFSET	204.0150 LF	COMMENTS
0010	1	S 60TH ST	125+79	-	125+87	LT	21	MEDIAN
			127+02	-	127+14	RT	28	MEDIAN
			159+52	-	160+01	LT	59	WEST RADII
			54+15	-	58+50	LT/RT	390	CLEVELAND AVE WIDENING
		SUBTOTAL					498	
	2	S 60TH ST	159+63	-	159+79	RT	28	EAST RADII
		SUBTOTAL					28	
		CATEGORY TOTAL					526	
		PROJECT TOTAL					526	

REMOVING PAVEMENT BUTT JOINTS

CATEGORY	STAGE	LOCATION	STATION TO		STATION	OFFSET	ALIGNMENT	204.0105 SY
0010	1	W HOLT AVE	9+15	-	9+30	LT/RT	'H'	43
		W OIHIO AVE	81+00	-	81+05	LT/RT	'OH'	15
		W STACK DR	9+33	-	9+38	LT/RT	'S'	16
		W MONTANA ST	11+15	-	11+30	LT/RT	'MT'	49
		W CLEVELAND AVE	55+83	-	55+98	LT/RT	'C'	61
		W KINNICKINNIC PKWY	8+95	-	9+10	LT/RT	'K'	60
		SUBTOTAL						244
	2	W HOLT AVE	10+96	-	11+11	LT/RT	'H'	46
		W OIHIO AVE	10+96	-	11+11	LT/RT	'OH'	46
		W BENNETT AVE	10+67	-	10+82	LT/RT	'B'	43
		W STACK DR	10+60	-	10+75	LT/RT	'S'	44
		W CLEVELAND AVE	57+32	-	57+47	LT/RT	'C'	64
		W KINNICKINNIC PKWY	10+69	-	10+84	LT/RT	'K'	60
		SUBTOTAL						303
		CATEGORY TOTAL						547
		PROJECT TOTAL						547

GRANULAR BACKFILL

CATEGORY	STAGE	LOCATION	209.2500 BACKFILL GRANULAR GRADE 2 TON
0010	ALL	UNDISTRIBUTED	410
		PROJECT TOTAL	410

REMOVING ASPHALTIC SURFACE MILLING

CATEGORY	STAGE	LOCATION	STATION TO		STATION	OFFSET	204.0120 SY	COMMENTS
0010	1	S 60TH ST	159+12	-	160+01	LT/RT	420	
		SUBTOTAL					420	
	2	S 60TH ST	159+32	-	160+01	RT	410	
		SUBTOTAL					410	
		CATEGORY TOTAL					830	
		PROJECT TOTAL					830	

REMOVING STORM SEWER

CATEGORY	STAGE	LOCATION	STATION TO STATION	OFFSET	204.0245.001 REMOVING STORM SEWER 8-INCH LF	204.0245.002 REMOVING STORM SEWER 12-INCH LF	204.0245.003 REMOVING STORM SEWER 15-INCH LF	204.0245.004 REMOVING STORM SEWER 60-INCH LF
0010	1	S 60TH ST	101+40 - 101+77	LT/RT	51	--	--	--
			102+38	LT	14	--	--	--
			103+47	LT	13	--	--	--
			106+20 - 106+36	LT	34	--	--	--
			106+36	LT	12	--	--	--
			106+56 - 106+73	LT	18	--	--	--
			106+73 - 106+86	LT	13	--	--	--
			109+98	LT	14	--	--	--
			112+88	LT	--	31	--	--
			112+88	LT	--	13	--	--
			113+08 - 133+29	LT	21	--	--	--
			113+29 - 113+39	LT	10	--	--	--
			122+51	LT	13	--	--	--
			128+17	LT	30	--	--	--
			128+18	RT	6	--	--	--
			129+47	LT	30	--	--	--
			129+47	LT	15	--	--	--
			131+83	LT	26	--	--	--
			132+68	LT	18	--	--	--
			134+53	LT	18	--	--	--
			135+34	LT	17	--	--	--
			136+89	LT	18	--	--	--
			138+15	LT	17	--	--	--
			139+37	LT	16	--	--	--
			139+52 - 139+62	LT	10	--	--	--
			139+62 - 139+83	LT	21	--	--	--
			140+04	LT	17	--	--	--
			145+93 - 146+09	LT	17	--	--	--
			146+10 - 146+13	LT	4	--	--	--
			146+10 - 146+42	LT	34	--	--	--
			149+52	LT	14	--	--	--
			151+11	LT	30	--	--	--
			152+39	LT	--	--	13	--
			152+39	LT	25	--	--	--
			152+68 - 152+95	LT	29	--	--	--
			152+95 - 153+07	LT	15	--	--	--
			153+78	LT	14	--	--	--
			155+11	LT	14	--	--	--
			155+81	LT	23	--	--	--
			156+50	LT	14	--	--	--
			157+73	LT	15	--	--	--
			157+73	LT	28	--	--	--
			159+72 - 159+83	LT	19	--	--	--
			158+17	LT/RT	--	--	--	35
SUBTOTAL					767	44	13	35

REMOVING STORM SEWER

CATEGORY	STAGE	LOCATION	STATION TO STATION	OFFSET	204.0245.001 REMOVING STORM SEWER 8-INCH LF	204.0245.002 REMOVING STORM SEWER 12-INCH LF	204.0245.003 REMOVING STORM SEWER 15-INCH LF	204.0245.004 REMOVING STORM SEWER 60-INCH LF
0010	2	S 60TH ST	102+09 - 101+98	RT	12	--	--	--
			104+10	RT	6	--	--	--
			106+27	RT	6	--	--	--
			112+88	RT	5	--	--	--
			112+88	RT	20	--	--	--
			112+88	RT	6	--	--	--
			119+04 - 119+12	RT	8	--	--	--
			119+07 - 119+12	RT	43	--	--	--
			121+92 - 122+31	RT	53	--	--	--
			122+02 - 122+31	RT	30	--	--	--
			124+37	RT	4	--	--	--
			124+37 124+45	RT	39	--	--	--
			129+57 - 129+82	RT	31	--	--	--
			129+70 - 129+82	RT	19	--	--	--
			129+82 - 130+00	RT	25	--	--	--
			132+29	RT	17	--	--	--
			134+42 - 134+53	RT	28	--	--	--
			134+53	RT	17	--	--	--
			135+95	RT	16	--	--	--
			135+95 - 136+21	RT	36	--	--	--
			137+26	RT	17	--	--	--
			138+28	RT	17	--	--	--
			138+28 - 138+47	RT	29	--	--	--
			139+37	RT	17	--	--	--
			140+04	RT	17	--	--	--
			140+04	RT	27	--	--	--
			145+92 - 145+98	LT/RT	30	--	--	--
			145+95 - 145+98	RT	18	--	--	--
			148+97	RT	17	--	--	--
			152+39	RT	16	--	--	--
			152+70 153+10	RT	41	--	--	--
			153+10 - 153+15	RT	5	--	--	--
			153+43	RT	16	--	--	--
			153+43 - 153+78	RT	44	--	--	--
			158+13 - 158+17	RT	8	--	--	--
			158+17	RT	--	--	--	35
		SUBTOTAL			740	--	--	35
		CATEGORY TOTAL			1,507	44	13	70
0020	1	S 60TH ST	116+23 - 116+33	LT	13	--	--	--
			116+33	LT	7	--	--	--
			116+33	LT	17	--	--	--
			119+09	LT	3	--	--	--
			119+09 - 119+64	LT	56	--	--	--
		SUBTOTAL			96	--	--	--
	2	S 60TH ST	109+76	RT	6	--	--	--
			109+76	RT	24	--	--	--
			115+29 - 115+90	RT	--	34	--	--
			115+52	RT	4	--	--	--
			115+52 115+64	RT	23	--	--	--
			115+64 - 115+90	RT	--	40	--	--
			115+90	RT	8	--	--	--
		SUBTOTAL			257	74	--	--
		CATEGORY TOTAL			353	74	--	--
		PROJECT TOTAL			1,860	118	13	70

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EARTHWORK SUMMARY

DIVISION	STATION TO STATION	LOCATION	205.0100 EXCAVATION COMMON CUT (CY)	205.0100 EXCAVATION COMMON EBS EXCAVATION (CY)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (CY)	AVAILABLE MATERIAL	EXPANDED EBS BACKFILL FACTOR 1.15	UNEXPANDED FILL	EXPANDED FILL FACTOR 1.15	MASS ORDINATE +/-	WASTE	COMMENTS
1												
	100+83 - 159+32	60TH STREET**	11,889	1,622	5,254	6,635	1,866	194	223	6,412	6,412	
	113+85 - 119+63	60TH STREET FRONTAGE ROAD ***	753	292	374	379	336	38	44	335	335	
SUBTOTAL			12,642	1,914	5,629	7,014	2,201	232	267	6,747	6,747	
2												
	100+83 - 159+32	60TH STREET**	12,050	1,196	5,254	6,796	1,376	442	508	6,288	6,288	
	107+04 - 116+02	60TH STREET FRONTAGE ROADS***	1,041	310	479	562	356	92	106	456	456	
SUBTOTAL			13,091	1,506	5,734	7,357	1,732	534	614	6,743	6,743	
3												
	102+50 - 159+31	60TH STREET**	1,345	180	--	1,345	207	21	24	1,321	1,321	
SUBTOTAL			1,345	180	--	1,345	207	21	24	1,321	1,321	
PROJECT TOTAL			30,678		11,362	15,716	4,140	787	905	14,811	14,811	

NOTE
1) Common Excavation is the sum of the Cut and EBS Excavation columns.
2) Salvaged/Unusable Pavement Material is included in Cut.
3) EBS Excavation to be backfilled with Base Aggregate Dense 1 1/4-Inch. EBS to be hauled off-site.
4) Salvaged/Unusable Pavement Material is the existing concrete and asphalt pavement volume, not available for fill (material to be wasted)
5) Available Material = Cut - Salvaged/Unusable Pavement Material (0 if negative)
6) Expanded EBS Backfill - EBS Backfill Factor = 1.15
7) Unexpanded Fill is from the end area earthwork volumes
8) Expanded Fill. Factor = 1.15 (expanded fill does not contain EBS)
9) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
10) Waste = Mass Ordinate if positive (For Information Only Borrow = Mass Ordinate if negative)

** Category 0010
*** Category 0020

CONTINUED ON NEXT PAGE

BASE AGGREGATE ITEMS

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO STATION	OFFSET	ALIGNMENT	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON
0010	1	S 60TH ST	100+83		106+65		LT	1,210
			106+65		113+23		LT	1,015
			113+23		125+82		LT	1,974
			127+06		139+67		LT	1,901
			139+67		146+28		LT	914
			146+28		152+89		LT	1,201
			152+89		160+01		LT	892
		CLEVELAND AVE	54+00		58+50			157
		UNDISTRIBUTED						1,409
		SUBTOTAL						10,673
	2	S 60TH ST	100+83		106+65		RT	682
			106+65		113+23		RT	738
			113+23		125+82		RT	1,554
			127+06		139+67		RT	1,751
			139+67		146+28		RT	848
			146+28		152+89		RT	783
			152+89		160+01		RT	724
		UNDISTRIBUTED						1,274
		SUBTOTAL						8,354
	3	S 60TH ST	100+83		106+65		LT/RT	141
			106+65		113+23		LT/RT	18
			113+23		125+82		LT/RT	178
			127+06		139+67		LT/RT	161
			139+67		146+28		LT/RT	--
			146+28		152+89		LT/RT	--
			152+89		160+01		LT/RT	265
		CLEVELAND AVE	54+00		58+50		LT/RT	62
		UNDISTRIBUTED						138
		SUBTOTAL						963
		CATEGORY TOTAL						19,990
0020	1	S 60TH ST	100+83		106+65			--
			106+65		113+23			--
			113+23		125+82		RT	611
			127+06		139+67			--
			139+67		146+28			--
			146+28		152+89			--
			152+89		160+01			--
		UNDISTRIBUTED						110
		SUBTOTAL						721
	2	S 60TH ST	100+83		106+65			--
			106+65		113+23		LT/RT	536
			113+23		125+82		LT/RT	234
			127+06		139+67			--
			139+67		146+28			--
			146+28		152+89			--
			152+89		160+01			--
		UNDISTRIBUTED						139
		SUBTOTAL						909
		CATEGORY TOTAL						1,630
		PROJECT TOTAL						21,620

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

DRILLED BAR ITEMS

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO STATION	OFFSET	ALIGNMENT	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	COMMENTS
0010	1									
		S 60TH ST	100+83	LT	100+83		LT	--	28	SB TRAVEL LANES
					106+65		LT	--	20	
					113+23		LT	--	20	
					125+82		LT	--	26	SB TRAVEL LANES
					127+06		LT	--	26	SB TRAVEL LANES
					139+67		LT	--	20	
					146+28		LT	--	20	
					152+89		LT	--	29	
					160+01		LT	--	29	SB TRAVEL LANES
					160+01		LT	19	--	
		SUBTOTAL						19	218	
	2									
		S 60TH ST			100+83		RT	--	18	NB TRAVEL LANES
					106+65		RT	--	19	
					113+23		RT	--	20	
					125+82		RT	--	26	NB TRAVEL LANES
					127+06		RT	--	26	NB TRAVEL LANES
					129+87		RT	--	20	
					139+67		RT	--	20	
					152+89		RT	--	29	
					160+01		RT	9	28	NB TRAVEL LANES
		SUBTOTAL						9	206	
	3									
		CLEVELAND AVE	54+00		58+50		LT/RT	156		
		SUBTOTAL						156	--	
		CATEGORY TOTAL						184	424	
		PROJECT TOTAL						184	424	

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CONCRETE PAVEMENT ITEMS

CATEGORY	STAGE	LOCATION	STATION	TO STATION	OFFSET	405.0100 COLORING CONCRETE WISDOT RED CY	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	715.0415 INCENTIVE STRENGTH CONCRETE PAVEMENT DOL	SPV.0180.001 JOINT SEALING SY
0010	1	S 60TH ST	100+83	106+65	LT		1,812	--	544	1,812
			106+65	113+23	LT		2,345	--	704	2,345
			113+23	125+82	LT		4,196	--	1,259	4,196
			127+06	139+67	LT		3,918	--	1,176	3,918
			139+67	146+28	LT		2,073	--	622	2,073
			146+28	152+89	LT		2,241	1	672	2,241
			152+89	160+01	LT		2,144	--	643	2,144
		SUBTOTAL				--	18,730	1	5,619	18,730
	2	S 60TH ST	100+83	106+65	LT		1,734	--	520	1,734
			106+65	113+23	LT		1,661	--	498	1,661
			113+23	125+82	LT		3,842	--	1,153	3,842
			127+06	139+67	LT		4,331	--	1,299	4,331
			139+67	146+28	LT		1,993	--	598	1,993
			146+28	152+89	LT		1,845	1	554	1,845
			152+89	160+01	LT		1,821	--	546	1,821
		SUBTOTAL				--	17,227	1	5,168	17,227
	3	S 60TH ST	100+83	106+65	LT		109	--	33	109
			106+65	113+23	LT		--	--	--	--
			113+23	125+82	LT		178	--	53	178
			127+06	139+67	LT		229	--	69	229
			139+67	146+28	LT		--	--	--	--
			146+28	152+89	LT		--	--	--	--
			152+89	160+01	LT		404	--	121	404
		SUBTOTAL				--	920	--	276	920
		CATEGORY TOTAL				--	36,877	2	11,063	36,877
0020	1	S 60TH ST	100+83	106+65	LT		--	--	--	--
			106+65	113+23	LT		--	--	--	--
			113+23	125+82	LT		1,286	--	386	1,286
			127+06	139+67	LT		--	--	--	--
			139+67	146+28	LT		--	--	--	--
			146+28	152+89	LT		--	--	--	--
			152+89	160+01	LT		--	--	--	--
		SUBTOTAL				--	1,286	--	386	1,286
	2	S 60TH ST	100+83	106+65	LT		--	--	--	--
			106+65	113+23	LT		1,105	--	332	1,105
			113+23	125+82	LT		511	--	153	511
			127+06	139+67	LT		--	--	--	--
			139+67	146+28	LT		--	--	--	--
			146+28	152+89	LT		--	--	--	--
			152+89	160+01	LT		--	--	--	--
		SUBTOTAL				--	1,616	--	485	1,616
		CATEGORY TOTAL				--	2,902	--	871	2,902
		PROJECT TOTAL				--	39,779	2	11,934	39,779

DRIVEWAYS

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO STATION	OFFSET	ALIGNMENT	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON	416.0170 CONCRETE DRIVEWAY 7-INCH SY
0010	1	S 60TH ST	100+83		106+65		LT	5	16
			106+65		113+23		LT	19	56
			113+23		125+82		LT	22	67
			127+06		139+67		LT	34	102
			139+67		146+28		LT	15	46
			146+28		152+89		LT	69	206
			152+89		160+01		LT	10	30
		SUBTOTAL						174	523
	2	S 60TH ST	100+83		106+65		RT	34	103
			106+65		113+23		RT	--	--
			113+23		125+82		RT	83	250
			127+06		139+67		RT	68	204
			139+67		146+28		RT	47	140
			146+28		152+89		RT	46	138
			152+89		160+01		RT	17	51
		SUBTOTAL						295	886
		CATEGORY TOTAL						469	1,409
0020	1	S 60TH ST	100+83		106+65			--	--
			106+65		113+23			--	--
			113+23		125+82		LT	15	46
			127+06		139+67			--	--
			139+67		146+28			--	--
			146+28		152+89			--	--
			152+89		160+01			--	--
		SUBTOTAL						15	46
	2	S 60TH ST	100+83		106+65			--	--
			106+65		113+23		RT	24	71
			113+23		125+82		RT	7	21
			127+06		139+67			--	--
			139+67		146+28			--	--
			146+28		152+89			--	--
			152+89		160+01			--	--
		SUBTOTAL						31	92
		CATEGORY TOTAL						46	138
		PROJECT TOTAL						515	1,547

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE CURB & GUTTER

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO STATION	OFFSET	ALIGNMENT	601.0319 CONCRETE CURB & GUTTER 19-INCH LF	601.0331 CONCRETE CURB & GUTTER 31-INCH LF	601.0600 CONCRETE CURB PEDESTRIAN LF	465.0310 ASPHALTIC CURB LF	COMMENTS
0010	1	S 60TH ST	100+83		106+65			396	532	--	61	
			106+65		113+23			662	594	--	61	
			113+23		125+82			807	1,208	57	--	
			127+06		139+67			1,102	1,188	--	61	
			139+67		146+28			656	595	--	61	
			146+28		152+89			779	663	24	--	
			152+89		160+01			93	712	--	--	
		SUBTOTAL						4,495	5,492	81	244	
	2	S 60TH ST	100+83		106+65			--	611	24	--	
			106+65		113+23			472	710	--	--	
			113+23		125+82			475	1,234	--	--	
			127+06		139+67			693	1,252	104	--	
			139+67		146+28			519	671	--	--	
			146+28		152+89			397	674	--	--	
			152+89		160+01			--	690	--	--	
		SUBTOTAL						2,556	5,842	128	--	
	3	S 60TH ST	100+83		106+65			686	82.00	--	--	
			106+65		113+23			--	107	30	--	
			113+23		125+82			891	--	--	--	
			127+06		139+67			514	73	--	--	
			139+67		146+28			--	82	25	--	
			152+89		160+01			974	--	--	--	
			54+00		58+50			--	390	--	--	
		SUBTOTAL						3,065	734	55	--	
		CATEGORY TOTAL						10,116	12,068	264	244	
0020	1	S 60TH ST	113+23		125+82			--	1,077	--	--	
		SUBTOTAL						--	1,077	--	--	
	2	S 60TH ST	106+65		113+23			--	987	--	--	
			113+23		125+82			--	394	--	--	
		SUBTOTAL						--	1,381	--	--	
		CATEGORY TOTAL						--	2,458	--	--	
		PROJECT TOTAL						10,116	14,526	264	244	

CONCRETE SIDEWALK

CATEGORY	STAGE	LOCATION	STATION	TO STATION	OFFSET	ALIGNMENT	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0420 CONCRETE SIDEWALK 7-INCH SF	COMMENTS
0010	1	S 60TH ST	100+83	106+65	LT		2,883	--	
			106+65	113+23	LT		3,169	--	
			113+23	125+82	LT		3,724	469	
			127+06	139+67	LT		6,055	590	
			139+67	146+28	LT		3,540	--	
			146+28	152+89	LT		2,865	663	
			152+89	160+01	LT		3,662	--	
		SUBTOTAL					25,898	1,722	
	2		100+83	106+65	RT		3,154	--	
			106+65	113+23	RT		1,710	--	
			113+23	125+82	RT		5,591	460	
			127+06	139+67	RT		6,491	382	
			139+67	146+28	RT		3,696	--	
			146+28	152+89	RT		3,183	444	
			152+89	160+01	RT		3,531	--	
		SUBTOTAL					27,356	1,286	
	3		100+83	106+65	LT		310	--	
			106+65	113+23	LT		332	--	
			127+06	139+67	LT		300	--	
			139+67	146+28	LT		330	--	
		CLEVELAND AVE	54+00	58+50	LT		20		
		SUBTOTAL					1,292	--	
		CATEGORY TOTAL					54,546	3,008	
0020	1		113+23	125+82	LT		3,224	--	
		SUBTOTAL					3,224	--	
	2		106+65	113+23	RT		2,495	--	
			113+23	125+82	RT		1,147	--	
		SUBTOTAL					3,642	--	
		CATEGORY TOTAL					6,866	--	
		PROJECT TOTAL					61,412	3,008	

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ASPHALTIC ITEMS

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO STATION	OFFSET	ALIGNMENT	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	COMMENTS
0010	1	S 60TH ST	102+47	LT	106+57	LT		--	--	255	
			106+65	LT				3	4	--	
			112+56	LT	113+09	LT		--	--	23	
			113+23	LT				1	2	--	
			119+87	LT	122+11	LT		--	--	144	
			130+11	LT	139+54	LT		--	--	133	
			139+67	LT				1	2	--	
			145+61	LT	146+14	LT		--	--	18	
			146+28	LT				4	5	--	
			152+89	LT				4	5	--	
			153+87	LT	156+32	LT		--	--	129	
			160+01	LT				34	47	--	
		CLEVELAND AVE	54+00	LT/RT	58+50	LT/RT		--	--	87	
		SUBTOTAL						47	64	789	
	2	S 60TH ST	106+65	RT				3	4	--	
			113+23	RT				3	4	--	
			129+87	RT				3	4	--	
			139+67	RT				3	4	--	
			152+89	RT				5	6	--	
			160+01	RT				33	45	--	
		SUBTOTAL						50	68	--	
		PROJECT TOTAL						96	132	789	

CONCRETE MEDIAN NOSE

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO STATION	OFFSET	ALIGNMENT	620.0300 CONCRETE MEDIAN SLOPED NOSE TYPE 2 SF	COMMENTS
0010	1		100+83		106+65			8	
			106+65		113+23			8	
			113+23		125+82			62	
			127+06		139+67			8	
			139+67		146+28			8	
			146+28		152+89			8	
			152+89		160+01			8	
		SUBTOTAL						110	
	2								
			106+65		113+23			75	
			113+23		125+82			123	
			127+06		139+67			41	
			139+67		146+28			8	
			146+28		152+89			12	
		SUBTOTAL						259	
	3								
			113+23		125+82			23	
			127+06		139+67			26	
			152+89		160+01			8	
		SUBTOTAL						57	
		CATEGORY TOTAL						426	
		PROJECT TOTAL						426	

CURB RAMP DETECTABLE WARNING FIELDS

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO STATION	OFFSET	ALIGNMENT	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	COMMENTS
0010	1	S 60TH ST	106+65		113+23	LT		20	--	
			113+23		125+82	LT		30	--	
			127+06		139+67	LT		10	--	
			139+67		146+28	LT		20	--	
			146+28		152+89	LT		30	--	
			152+89		160+01	LT		60	--	
		SUBTOTAL						170	--	
	2		100+83		106+65	RT		20	--	
			106+65		113+23	RT		40	--	
			113+23		125+82	RT		30	--	
			127+06		139+67	RT		30	--	
			139+67		146+28	RT		30	--	
			146+28		152+89	RT		20	--	
			152+89		160+01	RT		60	20	
		SUBTOTAL						230	20	
	3		100+83		106+65	LT		20		
			106+65		113+23	LT		20	--	
			127+06		139+67	LT/MED		40	--	
			139+67		146+28	LT		20	--	
		SUBTOTAL						100	--	
		PROJECT TOTAL						500	20	

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CONSTRUCTION STAKING

CATEGORY	LOCATION	STATION	OFFSET	TO STATION	OFFSET	ALIGNMENT	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	SPV.0165.001 CONSTRUCTION STAKING SIDEWALK SF	COMMENTS
0010	S 60TH ST	100+83		106+65	LT & RT		1,164	--	1,164	4	1,164	6,347	
		106+65		113+23	LT & RT		1,316	--	1,316	8	1,316	5,211	
		113+23		125+82	LT & RT		2,518	--	2,518	6	2,518	10,244	
		127+06		139+67	LT & RT		2,522	--	2,522	9	2,522	13,818	
		139+67		146+28	LT & RT		1,322	--	1,322	7	1,322	7,566	
		146+28		152+89	LT & RT		1,322	--	1,322	5	1,322	7,155	
		152+89		160+01	LT & RT		1,344	142	1,344	10	1,344	7,193	
	SUBTOTAL						11,508	142	11,508	49	11,508	57,534	
	CATEGORY TOTAL						11,508	142	11,508	49	11,508	57,534	
0020	S 60TH ST	113+85		119+64	LT		579	--	579	--	579	3,224	
		107+04		112+26	RT		522	--	522	--	522	2,495	
		113+85		116+02	RT		217	--	217	--	217	1,147	
	SUBTOTAL						1,318	--	1,318	--	1,318	6,866	
	CATEGORY TOTAL						1,318	--	1,318	--	1,318	6,866	
	PROJECT TOTAL						12,826	142	12,826	49	12,826	64,400	

STORM SEWER ITEMS

CATEGORY	STAGE	LOCATION	PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE	SPV.0060.038 REINFORCED CONCRETE COLLARS EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH	608.0360 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 60-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	504.0900 CONCRETE MASONRY ENDWALLS CY	COMMENTS
0010	1	SOUTH 60TH STREET	P-3	MH-3	MH-205	179.28	178.85	4.05%	--	--	--	14	--	
		SOUTH 60TH STREET	P-4	MH-4	MH-210	179.28	178.68	5.03%	--	--	--	15	--	
		SOUTH 60TH STREET	P-5.1	MH-5	MH-215	179.12	178.44	6.65%	--	--	--	13	--	
		SOUTH 60TH STREET	P-5.2	IN-5.2	MH-215	179.79	179.02	2.18%	--	--	--	39	--	
		SOUTH 60TH STREET	P-6.1	MH-6.2	MH-6.1	177.17	176.96	2.00%	--	--	--	13	--	
		WEST HOLT AVE	P-7.1	IN-7.1	MH-226	176.60	176.52	0.57%	--	--	--	18	--	
		WEST HOLT AVE	P-7.2	IN-7.2	MH-226	176.08	176.01	0.72%	--	--	--	12	--	
		SOUTH 60TH STREET	P-10	IN-10	MH-235	167.38	167.17	2.20%	--	--	--	13	--	
		SOUTH 60TH STREET	P-11	IN-11	MH-11	165.55	165.00	2.00%	--	--	--	30	--	
		SOUTH 60TH STREET	P-12	MH-12.1	MH-12	160.84	160.68	2.00%	--	--	--	11	--	
		WEST OHIO AVE	P-14	IN-14	MH-246P	159.70	158.86	5.00%	--	--	--	20	--	
		WEST OHIO AVE	P-15	IN-15	MH-247P	159.72	159.44	5.00%	--	--	--	9	--	
		SOUTH 60TH STREET	P-17.1	IN-17.1	IN-17.3	153.46	153.22	2.00%	--	--	--	14	--	
		SOUTH 60TH STREET	P-17.2	IN-17.2	IN-17.1	153.60	153.46	2.00%	--	--	--	10	--	
		SOUTH 60TH STREET	P-19.1	IN-19.1	IN-19.2	148.92	148.78	2.00%	--	--	--	9	--	
		SOUTH 60TH STREET	P-21.1	IN-21	MH-21	143.26	143.24	0.63%	--	--	--	6	--	
		SOUTH 60TH STREET	P-21.2	MH-21	MH-425	143.22	143.20	0.63%	--	--	--	6	--	
		SOUTH 60TH STREET	P-26	MH-26	MH-505	130.95	130.50	3.00%	--	--	--	18	--	
		SOUTH 60TH STREET	P-33	IN-33	MH-717	126.81	126.75	0.51%	--	--	--	15	--	
		SOUTH 60TH STREET	P-34	MH-34	MH-720	124.69	123.87	6.42%	--	--	--	16	--	
		SOUTH 60TH STREET	P-36.2	IN-36.2	MH-725	125.01	124.51	2.00%	--	--	--	28	--	
		SOUTH 60TH STREET	P-38	MH-38	MH-730	124.38	123.70	5.20%	--	--	--	16	--	
		SOUTH 60TH STREET	P-40	MH-40.1	MH-40	123.92	123.68	2.00%	--	--	--	15	--	
		WEST STACK AVE	P-44.1	IN-44.1	MH-746P	124.91	124.79	2.00%	--	--		9	--	
		WEST STACK AVE	P-44.2	IN-44.2	MH-746P	124.89	124.57	2.00%	--	--		19	--	
		SOUTH 60TH STREET	P-45	MH-45.1	MH-45	124.79	124.51	2.00%	--	--	--	17	--	
		SOUTH 60TH STREET	P-47	MH-47.1	MH-47.2	122.65	122.43	2.00%	--	--	--	14	--	
		WEST MONTANA ST	P-50.1	IN-50.1	MH-905	122.05	121.93	0.50%	--	--	--	27	--	
		WEST MONTANA ST	P-50.2	IN-50.2	MH-906	121.40	121.20	0.70%	--	--	--	32	--	
		SOUTH 60TH STREET	P-52	MH-52	MH-910	114.71	114.15	5.21%	--	--	--	14	--	
		SOUTH 60TH STREET	P-54	MH-54	MH-920	110.56	110.39	1.97%	--	--	--	12	--	
		WEST CLEVELAND AVE	P-56.1	IN-56.1	MH-56.3	110.35	109.92	2.00%	--	--	--	27	--	
		WEST CLEVELAND AVE	P-56.2	IN-56.2	MH-56.3	110.56	110.32	2.00%	--	--	--	18	--	
		SOUTH 60TH STREET	P-59	IN-59	MH-830	109.39	109.17	2.30%	--	--	--	13	--	
		SOUTH 60TH STREET	P-60	MH-60.2	MH-60.1	109.57	109.53	0.34%	--			14	--	
		SOUTH 60TH STREET	P-61	IN-61	MH-835	110.75	110.24	1.48%	--	--	--	38	--	
		SOUTH 60TH STREET	P-62	IN-62	MH-850	110.83	110.24	2.00%	--	--	--	33	--	
		SOUTH 60TH STREET	P-63	IN-63	MH-855	109.97	109.90	1.10%	--	--	--	8	--	
		SOUTH 60TH STREET	P-1013	IN-1030	MH-1003	111.44	111.23	1.81%	--	--	--	15	--	
		SOUTH 60TH STREET	P-1000	CC-1000	MH-1000P	103.03	102.74	1.70%	1	--	17	--	--	
		SOUTH 60TH STREET	P-1000.1	MH-1000P	CC-1000T	102.74	102.26	1.70%	--	1	28	--	--	PIPE PARTIALLY CONSTRUCTED IN STAGE 1 AND FINISHED IN STAGE 2
		UNDISTRIBUTED							--	1	--	--	--	
		SUBTOTAL							1	2	45	670	--	

CONTINUED ON NEXT PAGE

STORM SEWER ITEMS

CATEGORY	STAGE	LOCATION	PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE	SPV.0060.038 REINFORCED CONCRETE COLLARS EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH	608.0360 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 60-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	504.0900 CONCRETE MASONRY ENDWALLS CY	COMMENTS
													--	
	2	SOUTH 60TH STREET	P-9.1	MH-9	MH-120	168.92	168.45	2.00%	--	--	--	27	--	
		SOUTH 60TH STREET	P-11.1	IN-11.1	IN-11.2	163.79	163.68	2.00%	--	--	--	8	--	
		SOUTH 60TH STREET	P-11.2	IN-11.2	MH-11.2	163.68	163.26	2.00%	--	--	--	24	--	
		SOUTH 60TH STREET	P-13	IN-13	MH-125	159.69	159.09	2.00%	--	--	--	33	--	
		SOUTH 60TH STREET	P-16.1	IN-16.1	MH-16.1	153.68	153.18	2.00%	--	--	--	28	--	
		SOUTH 60TH STREET	P-16.2	MH-16.1	IN-16.4	153.18	152.70	2.29%	--	--	--	25	--	
		SOUTH 60TH STREET	P-18	IN-18	MH-315	147.10	146.98	3.02%	--	--	--	7	--	
		SOUTH 60TH STREET	P-20	IN-20	MH-320	144.10	143.26	3.19%	--	--	--	30	--	
		SOUTH 60TH STREET	P-22.2	IN-22.2	MH-325	141.10	141.07	1.28%	--	--	--	6	--	
		SOUTH 60TH STREET	P-27.1	IN-27.1	MH-27	130.90	130.39	2.00%	--	--	--	29	--	
		WEST BENNETT AVE	P-27.3	MH-27	MH-515	130.39	129.98	1.98%	--	--	--	24	--	
		WEST BENNETT AVE	P-27.4	IN-27.4	MH-515	130.45	129.98	2.00%	--	--	--	27	--	
		SOUTH 60TH STREET	P-30.1	IN-30.1	MH-610	125.88	125.35	2.00%	--	--	--	30	--	
		SOUTH 60TH STREET	P-30.2	IN-30.2	MH-610	124.06	123.83	2.00%	--	--	--	15	--	
		SOUTH 60TH STREET	P-32	IN-32	MH-605	127.52	127.20	2.78%	--	--	--	15	--	
		SOUTH 60TH STREET	P-37.1	MH-37	MH-615	124.25	123.96	2.00%	--	--	--	18	--	
		SOUTH 60TH STREET	P-39	IN-39	MH-620	123.60	123.33	3.56%	--	--	--	11	--	
		SOUTH 60TH STREET	P-41	IN-41	MH-625	123.60	123.43	2.23%	--	--	--	11	--	
		SOUTH 60TH STREET	P-43.1	IN-43.1	MH-630	124.47	124.32	2.00%	--	--	--	11	--	
		SOUTH 60TH STREET	P-43.2	IN-43.2	MH-630	124.88	124.19	2.01%	--	--	--	37	--	
		SOUTH 60TH STREET	P-43.3	IN-43.3	IN-43.2	125.03	124.88	1.08%	--	--	--	16	--	
		SOUTH 60TH STREET	P-66.2	MH-66	MH-636	124.19	123.85	2.00%	--	--	--	21	--	
		SOUTH 60TH STREET	P-65	IN-65	MH-65	124.02	123.86	2.00%	--	--	--	11	--	
		SOUTH 60TH STREET	P-48	MH-48.1	MH-48.2	122.52	122.27	2.00%	--	--	--	15	--	
		SOUTH 60TH STREET	P-51	IN-51	MH-810	114.21	114.11	1.38%	--	--	--	10	--	
		SOUTH 60TH STREET	P-55	IN-55	MH-815	110.58	110.45	2.00%	--	--	--	10	--	
		WEST CLEVELAND AVE	P-57.1	IN-57.1	IN-57.2	110.85	110.09	2.00%	--	--	--	40	--	
		WEST CLEVELAND AVE	P-57.2	IN-57.2	MH-57.3	110.09	110.02	3.00%	--	--	--	8	--	
		SOUTH 60TH STREET	P-58	IN-58	MH-860	110.58	109.41	2.00%	--	--	--	62	--	
		SOUTH 60TH STREET	P-64	IN-64	MH-1005P	104.91	104.16	1.99%	--	--	--	43	--	
		SOUTH 60TH STREET	P-1000.1	CC-1000T	MH-1005P	102.26	101.61	1.70%	--	1	44	--	--	PIPE PARTIALLY CONSTRUCTED IN STAGE 1
		SOUTH 60TH STREET	P-1000.2	MH-1005P	EW-1000	101.50	100.41	1.70%	--	--	67	--	6	
		UNDISTRIBUTED							--	1	--	--	--	
		SUBTOTAL							--	2	111	652	6	
		CATEGORY TOTAL							1	4	156	1,322	6	
													--	
0020	1	SOUTH 60TH STREET	P-16	MH-16	MH-400	155.97	155.89	2.00%	--	--	--	8	--	
		SOUTH 60TH STREET	P-17.3	IN-17.3	MH-410	153.22	152.94	2.00%	--	--	--	17	--	
		SOUTH 60TH STREET	P-19.2	IN-19.2	MH-415	148.78	146.78	3.23%	--	--	--	65	--	
									--					
		SUBTOTAL							--	--	--	90	--	
									--					
	2	SOUTH 60TH STREET	P-9.2	IN-9.3	MH-120	167.23	167.19	2.00%	--	--	--	5	--	
		SOUTH 60TH STREET	P-16.4	IN-16.4	MH-310	152.70	152.12	1.72%	--	--	--	37	--	
									--				--	
		SUBTOTAL							--	--	--	42	--	
		CATEGORY TOTAL							--	--	--	132	--	
		PROJECT TOTAL							1	4	156	1,454	6	

**NON-BID ITEM

CONTINUED FROM PREVIOUS PAGE

RECONSTUCTING MANHOLES & INLETS

CATEGORY	STAGE	LOCATION	STATION	OFFSET	ALIGNMENT	STRUCTURE NUMBER	EXISTING RIM ELEVATION	TO	PROPOSED RIM ELEVATION	611.0420 RECONSTRUCTING MANHOLES EACH	SPV.0060.033* MANHOLE COVER TYPE MS 58-A EACH	COMMENTS
0010	1	SOUTH 60TH STREET	101+77.88	30.13' LT	S 60TH ST	MH-200	183.58	-	183.16	1	1	
		SOUTH 60TH STREET	102+39.45	30.15' LT	S 60TH ST	MH-205	183.42	-	183.05	1	1	
		SOUTH 60TH STREET	128+16.39	29.14' LT	S 60TH ST	MH-500	139.30	-	139.24	1	1	
		SOUTH 60TH STREET	129+45.90	29.45' LT	S 60TH ST	MH-505	135.64	-	135.61	1	1	
		SOUTH 60TH STREET	131+82.54	26.04' LT	S 60TH ST	MH-705	132.57	-	132.30	1	1	
		SOUTH 60TH STREET	138+15.11	26.76' LT	S 60TH ST	MH-735	128.81		128.57	1	1	
		SOUTH 60TH STREET	139+32.64	27.22' LT	S 60TH ST	MH-740	128.69	-	128.55	1	1	
		SOUTH 60TH STREET	140+03.39	26.40' LT	S 60TH ST	MH-750	128.77	-	128.63	1	1	
		SOUTH 60TH STREET	146+09.26	29.28' LT	S 60TH ST	MH-905	125.82	-	125.65	1	1	
		SOUTH 60TH STREET	151+10.95	30.47' LT	S 60TH ST	MH-915	116.49	-	115.78	1	1	
		SOUTH 60TH STREET	152+38.98	30.41' LT	S 60TH ST	MH-920	114.80	-	115.55	1	1	
		SOUTH 60TH STREET	155+11.36	29.47' LT	S 60TH ST	MH-835	114.40	-	113.48	1	1	
		SOUTH 60TH STREET	155+80.49	29.48' LT	S 60TH ST	MH-840	114.48	-	113.81	1	1	
		SOUTH 60TH STREET	156+50.97	29.33' LT	S 60TH ST	MH-845	114.39	-	114.02	1	1	
		SOUTH 60TH STREET	157+74.09	28.93' LT	S 60TH ST	MH-855	114.33	-	113.66	1	1	
		SUBTOTAL								15	15	
	2	SOUTH 60TH STREET	119+11.78	38.75' RT	S 60TH ST	MH-315	152.19	-	152.20	1	1	
		SOUTH 60TH STREET	122+32.01	38.62' RT	S 60TH ST	MH-320	148.11	-	147.84	1	1	
		SOUTH 60TH STREET	135+95.94	27.54' RT	S 60TH ST	MH-615	128.62	-	127.78	1	1	
		SOUTH 60TH STREET	138+28.30	26.62' RT	S 60TH ST	MH-625	128.57	-	128.29	1	1	
		SOUTH 60TH STREET	140+02.84	26.59' RT	S 60TH ST	MH-636	128.33	-	127.65	1	1	
		SOUTH 60TH STREET	145+99.77	26.67' RT	S 60TH ST	MH-805	125.52	-	124.98	1	1	
		SOUTH 60TH STREET	152+39.47	27.90' RT	S 60TH ST	MH-815	115.10	-	114.73	1	1	
		SOUTH 60TH STREET	153+39.53	27.80' RT	S 60TH ST	MH-860	114.76	-	114.24	1	1	
		SUBTOTAL								8	8	
		CATEGORY TOTAL								23	23	
0020	2	SOUTH 60TH STREET	106+96.16	67.50' RT	S 60TH ST	MH-115	178.58	-	179.90	1	1	
		SUBTOTAL								1	1	
		CATEGORY TOTAL								1	1	
		PROJECT TOTAL								24	24	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

COVER PLATES TEMPORARY

611.8120.S

CATEGORY	STAGE	LOCATION	STATION	OFFSET	ALIGNMENT	COVER PLATES TEMPORARY EACH
0010	1	SOUTH 60TH ST	105+59.23	0.00' RT	S. 60TH ST	1
		SOUTH 60TH ST	140+05.11	6.27' RT	S. 60TH ST	1
		SOUTH 60TH ST	155+35.74	0.00' LT	S. 60TH ST	1
	2	SOUTH 60TH ST	123+85.07	0.00' RT	S. 60TH ST	1
		PROJECT TOTAL				4

SEALING PIPES

204.0280*

CATEGORY	STAGE	LOCATION	STATION	OFFSET	ALIGNMENT	SEALING PIPES EACH
0010	1	SOUTH 60TH ST	125+70.02	7.29' LT	S 60TH ST	1
		PROJECT TOTAL				1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STORM SEWER STRUCTURES

CATEGORY	STAGE	LOCATION	STATION	OFFSET	ALIGNMENT	STRUCTURE NUMBER	RIM OR FLANGE ELEVATION	ADJUSTMENT (FT)	COVER HEIGHT (FT)	STRUCTURE ELEVATION	BOTTOM OF STRUCTURE ELEVATION	SUMP	DEPTH	611.1003 MANHOLES CATCH BASINS 3-FT DIAMETER EACH	611.1004 MANHOLES CATCH BASINS 4-FT DIAMETER EACH	611.2003 MANHOLES MANHOLES 3-FT DIAMETER EACH	611.2004 MANHOLES MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES MANHOLES 5-FT DIAMETER EACH	611.2008 MANHOLES MANHOLES 8-FT DIAMETER EACH
0010	1	SOUTH 60TH ST	102+22.51	36.00' LT	S. 60TH ST	IN-3	182.91	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	102+36.81	43.71' LT	S. 60TH ST	MH-3	183.61	1.50	0.82	181.29	177.28	2.00	4.01	1	--	--	--	--	--
		SOUTH 60TH ST	103+46.37	36.00' LT	S. 60TH ST	IN-4	183.20	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	103+46.17	45.20' LT	S. 60TH ST	MH-4	183.78	1.50	0.82	181.46	177.28	2.00	4.18	1	--	--	--	--	--
		SOUTH 60TH ST	104+37.14	36.00' LT	S. 60TH ST	IN-5.1	182.72	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	104+36.42	44.27' LT	S. 60TH ST	MH-5	183.44	1.50	0.82	181.12	177.12	2.00	4.00	1	--	--	--	--	--
		SOUTH 60TH ST	105+59.23	0.00' RT	S. 60TH ST	IN-5.2	183.12	0.67	0.67	181.78	177.96	1.83	3.82	--	--	--	--	--	--
		SOUTH 60TH ST	105+98.39	30.61' LT	S. 60TH ST	MH-6.1	181.04	1.00	0.82	179.22	175.14	0.17	4.08	--	--	1	--	--	--
		SOUTH 60TH ST	105+98.48	36.00' LT	S. 60TH ST	IN-6.1	180.98	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	105+98.48	43.60' LT	S. 60TH ST	MH-6.2	181.49	1.50	0.82	179.17	175.17	2.00	4.00	1	--	--	--	--	--
		WEST HOLT AVE	106+57.46	64.77' LT	S. 60TH ST	IN-7.1	180.23	0.67	0.67	178.89	174.77	1.83	4.12	--	--	--	--	--	--
		WEST HOLT AVE	106+83.38	61.70' LT	S. 60TH ST	IN-7.2	179.45	0.67	0.67	178.11	174.25	1.83	3.86	--	--	--	--	--	--
		SOUTH 60TH ST	109+97.81	36.00' LT	S. 60TH ST	IN-10	171.69	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	109+97.45	42.79' LT	S. 60TH ST	MH-10	172.19	1.50	0.82	169.87	165.38	2.00	4.49	1	--	--	--	--	--
		SOUTH 60TH ST	111+15.00	0.00' RT	S. 60TH ST	IN-11	169.07	0.67	0.67	167.73	163.72	1.83	4.01	--	--	--	--	--	--
		SOUTH 60TH ST	111+15.06	30.30' LT	S. 60TH ST	MH-11	168.51	1.00	0.82	166.69	162.63	0.17	4.06	--	--	--	1	--	--
		SOUTH 60TH ST	112+50.05	30.29' LT	S. 60TH ST	MH-12	164.81	1.00	0.82	162.99	158.97	0.17	4.02	--	--	--	1	--	--
		SOUTH 60TH ST	112+50.05	36.00' LT	S. 60TH ST	IN-12	164.70	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	112+50.05	41.25' LT	S. 60TH ST	MH-12.1	165.16	1.50	0.82	162.84	158.84	2.00	4.00	1	--	--	--	--	--
		WEST OHIO AVE	113+09.32	63.50' LT	S. 60TH ST	IN-14	163.18	0.67	0.67	161.84	157.87	1.83	3.97	--	--	--	--	--	--
		WEST OHIO AVE	113+27.85	64.77' LT	S. 60TH ST	MH-246P	163.42	1.00	0.82	161.60	153.54	0.17	8.06	--	--	--	--	1	--
		WEST OHIO AVE	113+34.58	89.64' LT	S. 60TH ST	IN-15	163.60	0.67	0.67	162.26	157.89	1.83	4.37	--	--	--	--	--	--
		WEST OHIO AVE	113+27.34	89.53' LT	S. 60TH ST	MH-247P	163.74	1.00	0.82	161.92	153.68	0.17	8.24	--	--	--	--	1	--
		SOUTH 60TH ST	113+91.27	40.04' LT	S. 60TH ST	IN-16	161.63	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	113+92.11	50.49' LT	S. 60TH ST	MH-16	162.27	1.50	0.82	159.95	153.97	2.00	5.98	1	--	--	--	--	--
		SOUTH 60TH ST	116+22.51	36.00' LT	S. 60TH ST	IN-17.2	156.93	0.67	0.67	155.59	153.43	0.17	2.16	--	--	--	--	--	--
		SOUTH 60TH ST	116+31.70	36.00' LT	S. 60TH ST	IN-17.1	156.79	0.67	0.67	155.45	153.66	0.17	1.79	--	--	--	--	--	--
		SOUTH 60TH ST	119+00.14	41.00' LT	S. 60TH ST	IN-19.1	152.58	0.67	0.67	151.24	148.75	0.17	2.49	--	1	--	--	--	--
		SOUTH 60TH ST	122+51.58	40.76' LT	S. 60TH ST	IN-21	147.74	0.67	0.67	146.40	143.09	0.17	3.31	--	--	--	--	--	--
		SOUTH 60TH ST	122+51.54	35.80' LT	S. 60TH ST	MH-21	147.82	1.00	0.82	146.00	141.22	2.00	4.78	1	--	--	--	--	--
		SOUTH 60TH ST	129+49.06	40.00' LT	S. 60TH ST	IN-26	135.34	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	129+50.19	46.22' LT	S. 60TH ST	MH-26	135.77	--	--	--	--	--	--	1	--	--	--	--	--
		SOUTH 60TH ST	132+68.58	39.77' LT	S. 60TH ST	IN-33	130.91	0.67	0.67	129.57	124.98	1.83	4.59	--	--	--	--	--	--
		SOUTH 60TH ST	134+53.52	36.00' LT	S. 60TH ST	IN-34	128.44	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	134+53.53	41.72' LT	S. 60TH ST	MH-34	129.01	1.50	0.82	126.69	122.69	2.00	4.00	1	--	--	--	--	--
		SOUTH 60TH ST	135+75.00	0.00' LT	S. 60TH ST	IN-36.2	128.34	0.67	0.67	127.00	123.18	1.83	3.82	--	--	--	--	--	--
		SOUTH 60TH ST	135+75.01	36.00' LT	S. 60TH ST	IN-36.1	127.73	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	135+71.35	41.42' LT	S. 60TH ST	MH-36.1	128.30	1.50	0.82	125.98	120.50	2.00	5.48	1	--	--	--	--	--
		SOUTH 60TH ST	136+89.05	36.00' LT	S. 60TH ST	IN-38	128.16	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	136+90.11	43.03' LT	S. 60TH ST	MH-38	128.71	1.50	0.82	126.39	122.38	2.00	4.01	1	--	--	--	--	--
		SOUTH 60TH ST	138+85.69	36.00' LT	S. 60TH ST	IN-40	128.26	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	138+85.72	41.60' LT	S. 60TH ST	MH-40.1	128.75	1.50	0.82	126.43	121.92	2.00	4.51	1	--	--	--	--	--
		SOUTH 60TH ST	138+85.60	27.03' LT	S. 60TH ST	MH-40	128.44	1.00	0.82	126.62	121.38	0.17	5.24	--	--	1	--	--	--
		SOUTH 60TH ST	139+31.93	9.15' LT	S. 60TH ST	IN-43.3	128.36	0.67	0.67	127.02	123.20	1.83	3.82	--	--	--	--	--	--
		WEST STACK DR	139+53.86	61.98' LT	S. 60TH ST	IN-44.1	128.24	0.67	0.67	126.90	123.08	1.83	3.82	--	--	--	--	--	--
		WEST STACK DR	139+61.53	60.24' LT	S. 60TH ST	MH-746P	128.42	1.00	0.82	126.60	118.44	0.17	8.16	--	--	1	--	--	--
		WEST STACK DR	139+79.50	59.57' LT	S. 60TH ST	IN-44.2	128.22	0.67	0.67	126.88	123.06	1.83	3.82	--	--	--	--	--	--
		SOUTH 60TH ST	140+04.85	2.40' RT	S. 60TH ST	IN-66	128.16	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	140+05.11	6.27' RT	S. 60TH ST	MH-66	128.51	1.50	0.82	126.19	122.19	2.00	4.00	1	--	--	--	--	--
		SOUTH 60TH ST	140+50.00	36.00' LT	S. 60TH ST	IN-45	128.58	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	140+50.00	43.43' LT	S. 60TH ST	MH-45.1	129.07	1.50	0.82	126.75	122.79	2.00	3.96	1	--	--	--	--	--
		SOUTH 60TH ST	140+50.00	27.11' LT	S. 60TH ST	MH-45	128.67	1.00	0.82	126.85	123.38	0.17	3.47	--	--	1	--	--	--
		SOUTH 60TH ST	145+55.21	36.00' LT	S. 60TH ST	IN-47	126.37	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	145+55.14	42.47' LT	S. 60TH ST	MH-47.1	126.97	1.50	0.82	124.65	120.65	2.00	4.00	1	--	--	--	--	--
		SOUTH 60TH ST	145+55.19	29.20' LT	S. 60TH ST	MH-47.2	126.51	1.00	0.82	124.69	120.19	0.17	4.50	--	--	1	--	--	--
		WEST MONTANA AVE	146+14.50	55.70' LT	S. 60TH ST	IN-50.1	125.45	0.67	0.67	124.11	120.16	1.83	3.95	--	--	--	--	--	--
		WEST MONTANA AVE	146+39.91	59.17' LT	S. 60TH ST	IN-50.2	125.50	0.67	0.67	124.16	119.58	1.83	4.58	--	--	--	--	--	--
		SOUTH 60TH ST	149+52.70	36.00' LT	S. 60TH ST	IN-52	118.48	--	--	--	--	--	--	--	--	--	--	--	--
		SOUTH 60TH ST	149+50.44	43.03' lt	S. 60TH ST	MH-52	119.03	1.50	0.82	116.71	112.71	2.00	4.00	1	--	--	--	--	--
		SOUTH 60TH ST	152+38.77	36.00' LT	S. 60TH ST	IN-54	114.49	--	--	--	--	--	--	--	--	--	--	--	--

CONTINUED ON NEXT PAGE

STORM SEWER STRUCTURES

CATEGORY	STAGE	LOCATION	STATION	OFFSET	ALIGNMENT	STRUCTURE NUMBER	RIM OR FLANGE ELEVATION	ADJUSTMENT (FT)	COVER HEIGHT (FT)	STRUCTURE ELEVATION	BOTTOM OF STRUCTURE ELEVATION	SUMP	DEPTH	611.1003 MANHOLES CATCH BASINS 3-FT DIAMETER EACH	611.1004 MANHOLES CATCH BASINS 4-FT DIAMETER EACH	611.2003 MANHOLES MANHOLES 3-FT DIAMETER EACH	611.2004 MANHOLES MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES MANHOLES 5-FT DIAMETER EACH	611.2008 MANHOLES MANHOLES 8-FT DIAMETER EACH
0010	1	SOUTH 60TH ST	152+38.77	41.87' LT	S. 60TH ST	MH-54	114.89	1.50	0.82	112.57	108.56	2.00	4.01	1	--	--	--	--	--
		W CLEVELAND AVE	152+69.55	61.80' LT	S. 60TH ST	IN-56.1	113.68	0.67	0.67	112.34	108.52	1.83	3.82	--	--	--	--	--	--
		W CLEVELAND AVE	152+94.63	56' RT	S. 60TH ST	MH-56.3	114.26	1.00	0.82	112.44	104.61	0.17	7.83	--	--	--	--	--	1
		W CLEVELAND AVE	153+06.57	67.32' LT	S. 60TH ST	IN-56.2	113.89	0.67	0.67	112.55	108.73	1.83	3.82	--	--	--	--	--	--
		SOUTH 60TH ST	153+77.29	36.00' LT	S. 60TH ST	IN-59	113.58	--	--	--	--	1.83	--	--	--	--	--	--	--
		SOUTH 60TH ST	153+76.54	41.81' LT	S. 60TH ST	MH-59	114.12	1.50	0.82	111.80	107.39	2.00	4.41	1	--	--	--	--	--
		SOUTH 60TH ST	154+75.00	36.00' LT	S. 60TH ST	IN-60	113.26	--	--	--	--	1.83	--	--	--	--	--	--	--
		SOUTH 60TH ST	154+60.95	42.06' LT	S. 60TH ST	MH-60.2	113.89	1.50	0.82	111.57	107.57	2.00	4.00	1	--	--	--	--	--
		SOUTH 60TH ST	154+66.04	29.46' LT	S. 60TH ST	MH-60.1	113.38	1.00	0.82	111.56	108.24	0.17	3.32	1	--	--	--	--	--
		SOUTH 60TH ST	155+35.74	0.00' LT	S. 60TH ST	IN-61	114.08	0.67	0.67	112.74	108.92	1.83	3.82	--	--	--	--	--	--
		SOUTH 60TH ST	156+84.06	0.00' LT	S. 60TH ST	IN-62	114.47	0.67	0.67	113.13	109.00	1.83	4.13	--	--	--	--	--	--
		SOUTH 60TH ST	157+74.00	36.00' LT	S. 60TH ST	IN-63	113.51	0.67	0.67	112.17	108.14	1.83	4.03	--	--	--	--	--	--
		SOUTH 60TH ST	158+19.49	28.60' LT	S. 60TH ST	MH-1000P	113.80	1.00	0.82	111.98	101.00	0.50	10.98	--	--	--	--	--	1
		SOUTH 60TH ST	159+91.05	41.00' LT	S. 60TH ST	IN-1030	115.90	0.67	0.67	114.56	109.61	1.83	4.95	--	--	--	--	--	--
		SUBTOTAL												21	1	5	2	2	2
	2	SOUTH 60TH ST	102+95.08	36.65' RT	S. 60TH ST	IN-1	182.40	0.67	0.67	181.06	177.83	0.17	3.23	--	--	--	--	--	--
		SOUTH 60TH ST	105+08.53	36.43' RT	S. 60TH ST	IN-6	181.54	0.67	0.67	180.20	176.13	0.17	4.07	--	--	--	--	--	--
		SOUTH 60TH ST	106+26.15	36.53' RT	S. 60TH ST	IN-110	180.04	0.67	0.67	178.70	174.83	0.17	3.87	--	--	--	--	--	--
		SOUTH 60TH ST	109+76.52	29.00' RT	S. 60TH ST	IN-9.1	172.40	--	--	--	--		--	--	--	--	--	--	--
		SOUTH 60TH ST	109+76.32	40.75' RT	S. 60TH ST	MH-9	172.85	1.50	0.82	170.53	166.92	2.00	3.61	1	--	--	--	--	--
		SOUTH 60TH ST	111+73.69	35.75' RT	S. 60TH ST	IN-11.1	167.12	0.67	0.67	165.78	161.96	1.83	3.82	--	--	--	--	--	--
		SOUTH 60TH ST	111+73.30	44.25' RT	S. 60TH ST	IN-11.2	167.40	0.67	0.67	166.06	161.85	1.83	4.21	--	--	--	--	--	--
		SOUTH 60TH ST	112+76.87	36.00' RT	S. 60TH ST	IN-13	164.59	0.67	0.67	163.25	157.86	1.83	5.39	--	--	--	--	--	--
		SOUTH 60TH ST	115+43.77	40.56' RT	S. 60TH ST	IN-16.1	158.28	0.67	0.67	156.94	151.85	1.83	5.09	--	1	--	--	--	--
		SOUTH 60TH ST	115+38.88	29.00' RT	S. 60TH ST	IN-16.3	157.99	--	--	--	--		--	--	--	--	--	--	--
		SOUTH 60TH ST	119+05.06	37.80' RT	S. 60TH ST	IN-18	151.81	0.67	0.67	150.47	146.93	0.17	3.54	--	--	--	--	--	--
		SOUTH 60TH ST	122+02.99	41.00' RT	S. 60TH ST	IN-20	148.12	0.67	0.67	146.78	142.27	1.83	4.51	--	--	--	--	--	--
		SOUTH 60TH ST	124+35.54	42.00' RT	S. 60TH ST	IN-22.2	144.42	0.67	0.67	143.08	139.27	1.83	3.81	--	--	--	--	--	--
		SOUTH 60TH ST	129+50.29	40.10' RT	S. 60TH ST	IN-27.1	134.59	0.67	0.67	133.25	129.07	1.83	4.18	--	--	--	--	--	--
		WEST BENNETT AVE	129+73.10	65.68' RT	S. 60TH ST	IN-27.3	134.11	--	--	--	--		--	--	--	--	--	--	--
		WEST BENNETT AVE	129+66.50	64.43' LT	S. 60TH ST	MH-27	134.71	1.50	0.82	132.39	128.39	2.00	4.00	1	--	--	--	--	--
		WEST BENNETT AVE	129+99.20	65.61' RT	S. 60TH ST	IN-27.4	134.09	0.67	0.67	132.75	128.62	1.83	4.13	--	--	--	--	--	--
		SOUTH 60TH ST	132+29.86	40.00' RT	S. 60TH ST	IN-32	131.50	0.67	0.67	130.16	125.69	1.83	4.47	--	--	--	--	--	--
		SOUTH 60TH ST	134+41.10	0.00' RT	S. 60TH ST	IN-30.1	129.21	0.67	0.67	127.87	124.05	1.83	3.82	--	--	--	--	--	--
		SOUTH 60TH ST	134+54.04	40.00' RT	S. 60TH ST	IN-30.2	128.31	0.67	0.67	126.97	122.23	1.83	4.74	--	--	--	--	--	--
		SOUTH 60TH ST	136+05.00	36.95' RT	S. 60TH ST	IN-37	127.78	--	--	--	--		--	--	--	--	--	--	--
		SOUTH 60TH ST	136+05.00	43.15' RT	S. 60TH ST	MH-37	128.25	1.00	0.82	126.43	122.25	2.00	4.18	1	--	--	--	--	--
		SOUTH 60TH ST	137+26.59	36.00' RT	S. 60TH ST	IN-39	128.05	0.67	0.67	126.71	121.77	1.83	4.94	--	--	--	--	--	--
		SOUTH 60TH ST	138+27.77	36.00' RT	S. 60TH ST	IN-41	128.11	0.67	0.67	126.77	121.77	1.83	5.00	--	--	--	--	--	--
		SOUTH 60TH ST	139+16.20	6.28' LT	S. 60TH ST	IN-43.2	128.85	0.67	0.67	127.51	123.05	1.83	4.46	--	1	--	--	--	--
		SOUTH 60TH ST	139+32.77	36.13' RT	S. 60TH ST	IN-43.1	127.80	0.67	0.67	126.46	122.64	1.83	3.82	--	--	--	--	--	--
		SOUTH 60TH ST	140+39.58	36.00' RT	S. 60TH ST	IN-65	127.47	0.67	0.67	126.13	122.19	1.83	3.94	--	--	--	--	--	--
		SOUTH 60TH ST	140+39.45	26.60' RT	S. 60TH ST	MH-65	127.68	1.00	0.82	125.86	123.69	0.17	2.17	--	--	1	--	--	--
		SOUTH 60TH ST	145+54.18	36.00' RT	S. 60TH ST	IN-48	125.51	--	--	--	--		--	--	--	--	--	--	--
		SOUTH 60TH ST	145+55.42	41.78' RT	S. 60TH ST	MH-48.1	126.01	1.50	0.82	123.69	120.52	2.00	3.17	1	--	--	--	--	--
		SOUTH 60TH ST	145+55.35	26.63' RT	S. 60TH ST	MH-48.2	125.89	1.00	0.82	124.07	119.93	0.17	4.14	--	--	1	--	--	--
		SOUTH 60TH ST	148+97.44	36.00' RT	S. 60TH ST	IN-51	118.25	0.67	0.67	116.91	112.38	1.83	4.53	--	--	--	--	--	--
		SOUTH 60TH ST	148+97.31	26.97' RT	S. 60TH ST	MH-810	118.43	1.00	0.82	116.61	113.29	0.17	3.32	--	--	1	--	--	--
		SOUTH 60TH ST	152+38.90	36.00' RT	S. 60TH ST	IN-55	114.60	0.67	0.67	113.26	108.75	1.83	4.51	--	--	--	--	--	--
		WEST CLEVELAND AVE	152+70.02	65.17' RT	S. 60TH ST	IN-57.1	114.34	0.67	0.67	113.00	109.02	1.83	3.98	--	--	--	--	--	--
		WEST CLEVELAND AVE	153+08.08	65.67' RT	S. 60TH ST	IN-57.2	114.25	0.67	0.67	112.91	108.26	1.83	4.65	--	--	--	--	--	--
0010	2	WEST CLEVELAND AVE	153+14.85	70.72' RT	S. 60TH ST	MH-57.3	114.93	1.00	0.82	113.11	103.72	0.17	9.39	--	--	--	--	--	1
		SOUTH 60TH ST	153+99.97	36.00' RT	S. 60TH ST	IN-58	113.91	0.67	0.67	112.57	108.75	1.83	3.82	--	--	--	--	--	--
		SOUTH 60TH ST	157+75.00	36.00' RT	S. 60TH ST	IN-64	113.18	0.67	0.67	111.84	103.08	1.83	8.76	--	--	--	--	--	--
		SOUTH 60TH ST	158+17.25	43.62' RT	S. 60TH ST	MH-1005P	113.80	1.00	0.82	111.98	101.00	0.50	10.98	--	--	--	--	--	1
		SUBTOTAL												4	2	3	--	--	2
		CATEGORY TOTAL												25	3	8	2	2	4

CONTINUED ON NEXT PAGE

STORM SEWER STRUCTURES

CATEGORY	STAGE	LOCATION	STATION	OFFSET	ALIGNMENT	STRUCTURE NUMBER	RIM OR FLANGE ELEVATION	ADJUSTMENT (FT)	COVER HEIGHT (FT)	STRUCTURE ELEVATION	BOTTOM OF STRUCTURE ELEVATION	SUMP	DEPTH	611.1003 CATCH BASINS 3-FT DIAMETER EACH	611.1004 CATCH BASINS 4-FT DIAMETER EACH	611.2003 MANHOLES MANHOLES 3-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	
0020	1	SOUTH 60TH ST	116+31.82	51.75' LT	S. 60TH ST	IN-17.3	157.11	0.67	0.67	155.77	151.39	1.83		4.38	--	1	--	--	--	--
		SOUTH 60TH ST	119+00.22	51.75' LT	S. 60TH ST	IN-19.2	153.22	0.67	0.67	151.88	146.95	1.83		4.93	--	1	--	--	--	--
		SUBTOTAL													--	2	--	--	--	--
	2	SOUTH 60TH ST	109+75.63	70.75' RT	S. 60TH ST	IN-9.3	172.03	0.67	0.67	170.69	165.40	1.83		5.29	--	--	--	--	--	--
		SOUTH 60TH ST	111+72.95	67.56' RT	S. 60TH ST	MH-11.2	166.77	1.00	0.82	164.95	161.34	0.17		3.61	--	--	1	--	--	--
		SOUTH 60TH ST	112+07.32	66.88' RT	S. 60TH ST	IN-11.3	166.08	0.67	0.67	164.74	160.47	0.17		4.27	--	--	--	--	--	--
		SOUTH 60TH ST	115+42.52	68.50' RT	S. 60TH ST	MH-16.1	157.66	1.00	0.82	155.84	153.01	0.17		2.83	--	--	1	--	--	--
		SOUTH 60TH ST	115+67.16	68.15' RT	S. 60TH ST	IN-16.4	156.95	0.67	0.67	155.61	150.87	1.83		4.74	--	--	--	--	--	--
		SUBTOTAL													--	--	2	--	--	--
		CATEGORY TOTAL													--	2	2	--	--	--
		PROJECT TOTAL													25	5	10	2	2	4

NOTE
1) STATIONS SHOWN ARE TO THE CENTER OF STRUCTURE
2) OFFSETS ARE TO THE FLANGE LINE FOR STRUCTURES IN THE ROADWAY WITH INLET GRATES AND TO THE CENTER OF COVER FOR FIELD INLETS AND MANHOLES WITH SOLID LIDS
3) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES
*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONTINUED FROM PREVIOUS PAGE

STORM SEWER STRUCTURES

CATEGORY	STAGE	LOCATION	STATION	OFFSET	ALIGNMENT	STRUCTURE NUMBER	RIM OR FLANGE ELEVATION	ADJUSTMENT (FT)	COVER HEIGHT (FT)	STRUCTURE ELEVATION	BOTTOM OF STRUCTURE ELEVATION	SUMP	DEPTH	SPV.0060.030 INLETS: STORM INLET TYPE 45A EACH	SPV.0060.032 INLETS: CURB INLET TYPE 70A EACH	SPV.0060.031* INLET COVERS: INLET COVER TYPE MS 57 EACH	SPV.0060.033* MANHOLE COVERS: MANHOLE COVER TYPE MS 58-A EACH	650.4000 CONSTRUCTION STAKING STORM SEWER
0010	1	SOUTH 60TH ST	102+22.51	36.00' LT	S. 60TH ST	IN-3	182.91	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	102+36.81	43.71' LT	S. 60TH ST	MH-3	183.61	1.50	0.82	181.29	177.28	2.00	4.01	--	--	--	1	1
		SOUTH 60TH ST	103+46.37	36.00' LT	S. 60TH ST	IN-4	183.20	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	103+46.17	45.20' LT	S. 60TH ST	MH-4	183.78	1.50	0.82	181.46	177.28	2.00	4.18	--	--	--	1	1
		SOUTH 60TH ST	104+37.14	36.00' LT	S. 60TH ST	IN-5.1	182.72	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	104+36.42	44.27' LT	S. 60TH ST	MH-5	183.44	1.50	0.82	181.12	177.12	2.00	4.00	--	--	--	1	1
		SOUTH 60TH ST	105+59.23	0.00' RT	S. 60TH ST	IN-5.2	183.12	0.67	0.67	181.78	177.96	1.83	3.82	1	--	1	--	1
		SOUTH 60TH ST	105+98.39	30.61' LT	S. 60TH ST	MH-6.1	181.04	1.00	0.82	179.22	175.14	0.17	4.08	--	--	--	1	1
		SOUTH 60TH ST	105+98.48	36.00' LT	S. 60TH ST	IN-6.1	180.98	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	105+98.48	43.60' LT	S. 60TH ST	MH-6.2	181.49	1.50	0.82	179.17	175.17	2.00	4.00	--	--	--	1	1
		WEST HOLT AVE	106+57.46	64.77' LT	S. 60TH ST	IN-7.1	180.23	0.67	0.67	178.89	174.77	1.83	4.12	1	--	1	--	1
		WEST HOLT AVE	106+83.38	61.70' LT	S. 60TH ST	IN-7.2	179.45	0.67	0.67	178.11	174.25	1.83	3.86	1	--	1	--	1
		SOUTH 60TH ST	109+97.81	36.00' LT	S. 60TH ST	IN-10	171.69	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	109+97.45	42.79' LT	S. 60TH ST	MH-10	172.19	1.50	0.82	169.87	165.38	2.00	4.49	--	--	--	1	1
		SOUTH 60TH ST	111+15.00	0.00' RT	S. 60TH ST	IN-11	169.07	0.67	0.67	167.73	163.72	1.83	4.01	1	--	1	--	1
		SOUTH 60TH ST	111+15.06	30.30' LT	S. 60TH ST	MH-11	168.51	1.00	0.82	166.69	162.63	0.17	4.06	--	--	--	1	1
		SOUTH 60TH ST	112+50.05	30.29' LT	S. 60TH ST	MH-12	164.81	1.00	0.82	162.99	158.97	0.17	4.02	--	--	--	1	1
		SOUTH 60TH ST	112+50.05	36.00' LT	S. 60TH ST	IN-12	164.70	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	112+50.05	41.25' LT	S. 60TH ST	MH-12.1	165.16	1.50	0.82	162.84	158.84	2.00	4.00	--	--	--	--	1
		WEST OHIO AVE	113+09.32	63.50' LT	S. 60TH ST	IN-14	163.18	0.67	0.67	161.84	157.87	1.83	3.97	1	--	1	--	1
		WEST OHIO AVE	113+27.85	64.77' LT	S. 60TH ST	MH-246P	163.42	1.00	0.82	161.60	153.54	0.17	8.06	--	--	--	1	1
		WEST OHIO AVE	113+34.58	89.64' LT	S. 60TH ST	IN-15	163.60	0.67	0.67	162.26	157.89	1.83	4.37	1	--	1	--	1
		WEST OHIO AVE	113+27.34	89.53' LT	S. 60TH ST	MH-247P	163.74	1.00	0.82	161.92	153.68	0.17	8.24	--	--	--	1	1
		SOUTH 60TH ST	113+91.27	40.04' LT	S. 60TH ST	IN-16	161.63	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	113+92.11	50.49' LT	S. 60TH ST	MH-16	162.27	1.50	0.82	159.95	153.97	2.00	5.98	--	--	--	--	1
		SOUTH 60TH ST	116+22.51	36.00' LT	S. 60TH ST	IN-17.2	156.93	0.67	0.67	155.59	153.43	0.17	2.16	1	--	1	--	1
		SOUTH 60TH ST	116+31.70	36.00' LT	S. 60TH ST	IN-17.1	156.79	0.67	0.67	155.45	153.66	0.17	1.79	1	--	1	--	1
		SOUTH 60TH ST	119+00.14	41.00' LT	S. 60TH ST	IN-19.1	152.58	0.67	0.67	151.24	148.75	0.17	2.49	--	--	--	1	1
		SOUTH 60TH ST	122+51.58	40.76' LT	S. 60TH ST	IN-21	147.74	0.67	0.67	146.40	143.09	0.17	3.31	1	--	1	--	1
		SOUTH 60TH ST	122+51.54	35.80' LT	S. 60TH ST	MH-21	147.82	1.00	0.82	146.00	141.22	2.00	4.78	--	--	--	--	1
		SOUTH 60TH ST	129+49.06	40.00' LT	S. 60TH ST	IN-26	135.34	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	129+50.19	46.22' LT	S. 60TH ST	MH-26	135.77	--	--	--	--	--	--	--	--	--	1	1
		SOUTH 60TH ST	132+68.58	39.77' LT	S. 60TH ST	IN-33	130.91	0.67	0.67	129.57	124.98	1.83	4.59	1	--	1	--	1
		SOUTH 60TH ST	134+53.52	36.00' LT	S. 60TH ST	IN-34	128.44	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	134+53.53	41.72' LT	S. 60TH ST	MH-34	129.01	1.50	0.82	126.69	122.69	2.00	4.00	--	--	--	1	1
		SOUTH 60TH ST	135+75.00	0.00' LT	S. 60TH ST	IN-36.2	128.34	0.67	0.67	127.00	123.18	1.83	3.82	1	--	1	--	1
		SOUTH 60TH ST	135+75.01	36.00' LT	S. 60TH ST	IN-36.1	127.73	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	135+71.35	41.42' LT	S. 60TH ST	MH-36.1	128.30	1.50	0.82	125.98	120.50	2.00	5.48	--	--	--	1	1
		SOUTH 60TH ST	136+89.05	36.00' LT	S. 60TH ST	IN-38	128.16	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	136+90.11	43.03' LT	S. 60TH ST	MH-38	128.71	1.50	0.82	126.39	122.38	2.00	4.01	--	--	--	1	1
		SOUTH 60TH ST	138+85.69	36.00' LT	S. 60TH ST	IN-40	128.26	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	138+85.72	41.60' LT	S. 60TH ST	MH-40.1	128.75	1.50	0.82	126.43	121.92	2.00	4.51	--	--	--	1	1
		SOUTH 60TH ST	138+85.60	27.03' LT	S. 60TH ST	MH-40	128.44	1.00	0.82	126.62	121.38	0.17	5.24	--	--	--	1	1
		SOUTH 60TH ST	139+31.93	9.15' LT	S. 60TH ST	IN-43.3	128.36	0.67	0.67	127.02	123.20	1.83	3.82	1	--	1	--	1
		WEST STACK DR	139+53.86	61.98' LT	S. 60TH ST	IN-44.1	128.24	0.67	0.67	126.90	123.08	1.83	3.82	1	--	1	--	1
		WEST STACK DR	139+61.53	60.24' LT	S. 60TH ST	MH-746P	128.42	1.00	0.82	126.60	118.44	0.17	8.16	--	--	--	1	1
		WEST STACK DR	139+79.50	59.57' LT	S. 60TH ST	IN-44.2	128.22	0.67	0.67	126.88	123.06	1.83	3.82	1	--	1	--	1
		SOUTH 60TH ST	140+04.85	2.40' RT	S. 60TH ST	IN-66	128.16	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	140+05.11	6.27' RT	S. 60TH ST	MH-66	128.51	1.50	0.82	126.19	122.19	2.00	4.00	--	--	--	1	1
		SOUTH 60TH ST	140+50.00	36.00' LT	S. 60TH ST	IN-45	128.58	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	140+50.00	43.43' LT	S. 60TH ST	MH-45.1	129.07	1.50	0.82	126.75	122.79	2.00	3.96	--	--	--	1	1
		SOUTH 60TH ST	140+50.00	27.11' LT	S. 60TH ST	MH-45	128.67	1.00	0.82	126.85	123.38	0.17	3.47	--	--	--	1	1
		SOUTH 60TH ST	145+55.21	36.00' LT	S. 60TH ST	IN-47	126.37	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	145+55.14	42.47' LT	S. 60TH ST	MH-47.1	126.97	1.50	0.82	124.65	120.65	2.00	4.00	--	--	--	1	1
		SOUTH 60TH ST	145+55.19	29.20' LT	S. 60TH ST	MH-47.2	126.51	1.00	0.82	124.69	120.19	0.17	4.50	--	--	--	1	1
		WEST MONTANA AVE	146+14.50	55.70' LT	S. 60TH ST	IN-50.1	125.45	0.67	0.67	124.11	120.16	1.83	3.95	1	--	1	--	1
		WEST MONTANA AVE	146+39.91	59.17' LT	S. 60TH ST	IN-50.2	125.50	0.67	0.67	124.16	119.58	1.83	4.58	1	--	1	--	1
		SOUTH 60TH ST	149+52.70	36.00' LT	S. 60TH ST	IN-52	118.48	--	--	--	--	--	--	--	1	--	--	1
		SOUTH 60TH ST	149+50.44	43.03' lt	S. 60TH ST	MH-52	119.03	1.50	0.82	116.71	112.71	2.00	4.00	--	--	--	1	1
		SOUTH 60TH ST	152+38.77	36.00' LT	S. 60TH ST	IN-54	114.49	--	--	--	--	--	--	--	1	--	--	1

CONTINUED ON NEXT PAGE

STORM SEWER STRUCTURES

CATEGORY	STAGE	LOCATION	STATION	OFFSET	ALIGNMENT	STRUCTURE NUMBER	RIM OR FLANGE ELEVATION	ADJUSTMENT (FT)	COVER HEIGHT (FT)	STRUCTURE ELEVATION	BOTTOM OF STRUCTURE ELEVATION	SUMP	DEPTH	SPV.0060.030 INLETS: STORM INLET TYPE 45A EACH	SPV.0060.032 INLETS: CURB INLET TYPE 70A EACH	SPV.0060.031* INLET COVERS: INLET COVER TYPE MS 57 EACH	SPV.0060.033* MANHOLE COVERS: MANHOLE COVER TYPE MS 58-A EACH	650.4000 CONSTRUCTION STAKING STORM SEWER
0010	1	SOUTH 60TH ST	152+38.77	41.87' LT	S. 60TH ST	MH-54	114.89	1.50	0.82	112.57	108.56	2.00	4.01	--	--	--	1	1
		W CLEVELAND AVE	152+69.55	61.80' LT	S. 60TH ST	IN-56.1	113.68	0.67	0.67	112.34	108.52	1.83	3.82	1	--	1	--	1
		W CLEVELAND AVE	152+94.63	56' RT	S. 60TH ST	MH-56.3	114.26	1.00	0.82	112.44	104.61	0.17	7.83	--	--	--	1	1
		W CLEVELAND AVE	153+06.57	67.32' LT	S. 60TH ST	IN-56.2	113.89	0.67	0.67	112.55	108.73	1.83	3.82	1	--	1	--	1
		SOUTH 60TH ST	153+77.29	36.00' LT	S. 60TH ST	IN-59	113.58	--	--	--	--	1.83	--	--	1	--	--	1
		SOUTH 60TH ST	153+76.54	41.81' LT	S. 60TH ST	MH-59	114.12	1.50	0.82	111.80	107.39	2.00	4.41	--	--	--	1	1
		SOUTH 60TH ST	154+75.00	36.00' LT	S. 60TH ST	IN-60	113.26	--	--	--	--	1.83	--	--	1	--	--	1
		SOUTH 60TH ST	154+60.95	42.06' LT	S. 60TH ST	MH-60.2	113.89	1.50	0.82	111.57	107.57	2.00	4.00	--	--	--	1	1
		SOUTH 60TH ST	154+66.04	29.46' LT	S. 60TH ST	MH-60.1	113.38	1.00	0.82	111.56	108.24	0.17	3.32	--	--	--	1	1
		SOUTH 60TH ST	155+35.74	0.00' LT	S. 60TH ST	IN-61	114.08	0.67	0.67	112.74	108.92	1.83	3.82	1	--	1	--	1
		SOUTH 60TH ST	156+84.06	0.00' LT	S. 60TH ST	IN-62	114.47	0.67	0.67	113.13	109.00	1.83	4.13	1	--	1	--	1
		SOUTH 60TH ST	157+74.00	36.00' LT	S. 60TH ST	IN-63	113.51	0.67	0.67	112.17	108.14	1.83	4.03	1	--	1	--	1
		SOUTH 60TH ST	158+19.49	28.60' LT	S. 60TH ST	MH-1000P	113.80	1.00	0.82	111.98	101.00	0.50	10.98	--	--	--	1	1
		SOUTH 60TH ST	159+91.05	41.00' LT	S. 60TH ST	IN-1030	115.90	0.67	0.67	114.56	109.61	1.83	4.95	1	--	1	--	1
		SUBTOTAL												22	19	22	30	74
	2	SOUTH 60TH ST	102+95.08	36.65' RT	S. 60TH ST	IN-1	182.40	0.67	0.67	181.06	177.83	0.17	3.23	1	--	1	--	1
		SOUTH 60TH ST	105+08.53	36.43' RT	S. 60TH ST	IN-6	181.54	0.67	0.67	180.20	176.13	0.17	4.07	1	--	1	--	1
		SOUTH 60TH ST	106+26.15	36.53' RT	S. 60TH ST	IN-110	180.04	0.67	0.67	178.70	174.83	0.17	3.87	1	--	1	--	1
		SOUTH 60TH ST	109+76.52	29.00' RT	S. 60TH ST	IN-9.1	172.40	--	--	--	--		--	--	1	--	--	1
		SOUTH 60TH ST	109+76.32	40.75' RT	S. 60TH ST	MH-9	172.85	1.50	0.82	170.53	166.92	2.00	3.61	--	--	--	1	1
		SOUTH 60TH ST	111+73.69	35.75' RT	S. 60TH ST	IN-11.1	167.12	0.67	0.67	165.78	161.96	1.83	3.82	1	--	1	--	1
		SOUTH 60TH ST	111+73.30	44.25' RT	S. 60TH ST	IN-11.2	167.40	0.67	0.67	166.06	161.85	1.83	4.21	1	--	1	--	1
		SOUTH 60TH ST	112+76.87	36.00' RT	S. 60TH ST	IN-13	164.59	0.67	0.67	163.25	157.86	1.83	5.39	1	--	1	--	1
		SOUTH 60TH ST	115+43.77	40.56' RT	S. 60TH ST	IN-16.1	158.28	0.67	0.67	156.94	151.85	1.83	5.09	--	--	--	1	1
		SOUTH 60TH ST	115+38.88	29.00' RT	S. 60TH ST	IN-16.3	157.99	--	--	--	--		--	--	1	--	--	1
		SOUTH 60TH ST	119+05.06	37.80' RT	S. 60TH ST	IN-18	151.81	0.67	0.67	150.47	146.93	0.17	3.54	1	--	1	--	1
		SOUTH 60TH ST	122+02.99	41.00' RT	S. 60TH ST	IN-20	148.12	0.67	0.67	146.78	142.27	1.83	4.51	1	--	1	--	1
		SOUTH 60TH ST	124+35.54	42.00' RT	S. 60TH ST	IN-22.2	144.42	0.67	0.67	143.08	139.27	1.83	3.81	1	--	1	--	1
		SOUTH 60TH ST	129+50.29	40.10' RT	S. 60TH ST	IN-27.1	134.59	0.67	0.67	133.25	129.07	1.83	4.18	1	--	1	--	1
		WEST BENNETT AVE	129+73.10	65.68' RT	S. 60TH ST	IN-27.3	134.11	--	--	--	--		--	--	1	--	--	1
		WEST BENNETT AVE	129+66.50	64.43' LT	S. 60TH ST	MH-27	134.71	1.50	0.82	132.39	128.39	2.00	4.00	--	--	--	1	1
		WEST BENNETT AVE	129+99.20	65.61' RT	S. 60TH ST	IN-27.4	134.09	0.67	0.67	132.75	128.62	1.83	4.13	1	--	1	--	1
		SOUTH 60TH ST	132+29.86	40.00' RT	S. 60TH ST	IN-32	131.50	0.67	0.67	130.16	125.69	1.83	4.47	1	--	1	--	1
		SOUTH 60TH ST	134+41.10	0.00' RT	S. 60TH ST	IN-30.1	129.21	0.67	0.67	127.87	124.05	1.83	3.82	1	--	1	--	1
		SOUTH 60TH ST	134+54.04	40.00' RT	S. 60TH ST	IN-30.2	128.31	0.67	0.67	126.97	122.23	1.83	4.74	1	--	1	--	1
		SOUTH 60TH ST	136+05.00	36.95' RT	S. 60TH ST	IN-37	127.78	--	--	--	--		--	--	1	--	--	1
		SOUTH 60TH ST	136+05.00	43.15' RT	S. 60TH ST	MH-37	128.25	1.00	0.82	126.43	122.25	2.00	4.18	--	--	--	1	1
		SOUTH 60TH ST	137+26.59	36.00' RT	S. 60TH ST	IN-39	128.05	0.67	0.67	126.71	121.77	1.83	4.94	1	--	1	--	1
		SOUTH 60TH ST	138+27.77	36.00' RT	S. 60TH ST	IN-41	128.11	0.67	0.67	126.77	121.77	1.83	5.00	1	--	1	--	1
		SOUTH 60TH ST	139+16.20	6.28' LT	S. 60TH ST	IN-43.2	128.85	0.67	0.67	127.51	123.05	1.83	4.46	--	--	1	--	1
		SOUTH 60TH ST	139+32.77	36.13' RT	S. 60TH ST	IN-43.1	127.80	0.67	0.67	126.46	122.64	1.83	3.82	1	--	1	--	1
		SOUTH 60TH ST	140+39.58	36.00' RT	S. 60TH ST	IN-65	127.47	0.67	0.67	126.13	122.19	1.83	3.94	1	--	1	--	1
		SOUTH 60TH ST	140+39.45	26.60' RT	S. 60TH ST	MH-65	127.68	1.00	0.82	125.86	123.69	0.17	2.17	--	--	--	1	1
		SOUTH 60TH ST	145+54.18	36.00' RT	S. 60TH ST	IN-48	125.51	--	--	--	--		--	--	1	--	--	1
		SOUTH 60TH ST	145+55.42	41.78' RT	S. 60TH ST	MH-48.1	126.01	1.50	0.82	123.69	120.52	2.00	3.17	--	--	--	1	1
		SOUTH 60TH ST	145+55.35	26.63' RT	S. 60TH ST	MH-48.2	125.89	1.00	0.82	124.07	119.93	0.17	4.14	--	--	--	1	1
		SOUTH 60TH ST	148+97.44	36.00' RT	S. 60TH ST	IN-51	118.25	0.67	0.67	116.91	112.38	1.83	4.53	1	--	1	--	1
		SOUTH 60TH ST	148+97.31	26.97' RT	S. 60TH ST	MH-810	118.43	1.00	0.82	116.61	113.29	0.17	3.32	--	--	--	1	1
		SOUTH 60TH ST	152+38.90	36.00' RT	S. 60TH ST	IN-55	114.60	0.67	0.67	113.26	108.75	1.83	4.51	1	--	1	--	1
		WEST CLEVELAND AVE	152+70.02	65.17' RT	S. 60TH ST	IN-57.1	114.34	0.67	0.67	113.00	109.02	1.83	3.98	1	--	1	--	1
		WEST CLEVELAND AVE	153+08.08	65.67' RT	S. 60TH ST	IN-57.2	114.25	0.67	0.67	112.91	108.26	1.83	4.65	1	--	1	--	1
0010	2	WEST CLEVELAND AVE	153+14.85	70.72' RT	S. 60TH ST	MH-57.3	114.93	1.00	0.82	113.11	103.72	0.17	9.39	--	--	--	1	1
		SOUTH 60TH ST	153+99.97	36.00' RT	S. 60TH ST	IN-58	113.91	0.67	0.67	112.57	108.75	1.83	3.82	1	--	1	--	1
		SOUTH 60TH ST	157+75.00	36.00' RT	S. 60TH ST	IN-64	113.18	0.67	0.67	111.84	103.08	1.83	8.76	1	--	1	--	1
		SOUTH 60TH ST	158+17.25	43.62' RT	S. 60TH ST	MH-1005P	113.80	1.00	0.82	111.98	101.00	0.50	10.98	--	--	--	1	1
		SUBTOTAL												24	5	25	10	40
		CATEGORY TOTAL												46	24	47	40	114

CONTINUED ON NEXT PAGE

STORM SEWER STRUCTURES

CATEGORY	STAGE	LOCATION	STATION	OFFSET	ALIGNMENT	STRUCTURE NUMBER	RIM OR FLANGE ELEVATION	ADJUSTMENT (FT)	COVER HEIGHT (FT)	STRUCTURE ELEVATION	BOTTOM OF STRUCTURE ELEVATION	SUMP	DEPTH	SPV.0060.030 INLETS STORM INLET TYPE 45A EACH	SPV.0060.032 INLETS CURB INLET TYPE 70A EACH	SPV.0060.031* INLET COVERS INLET COVER TYPE MS 57 EACH	SPV.0060.033* MANHOLE COVERS MANHOLE COVER TYPE MS 58-A EACH	650.4000 CONSTRUCTION STAKING STORM SEWER
0020	1	SOUTH 60TH ST	116+31.82	51.75' LT	S. 60TH ST	IN-17.3	157.11	0.67	0.67	155.77	151.39	1.83	4.38	--	--	--	1	1
		SOUTH 60TH ST	119+00.22	51.75' LT	S. 60TH ST	IN-19.2	153.22	0.67	0.67	151.88	146.95	1.83	4.93	--	--	--	1	1
		SUBTOTAL												--	--	--	2	2
	2	SOUTH 60TH ST	109+75.63	70.75' RT	S. 60TH ST	IN-9.3	172.03	0.67	0.67	170.69	165.40	1.83	5.29	1	--	1	--	1
		SOUTH 60TH ST	111+72.95	67.56' RT	S. 60TH ST	MH-11.2	166.77	1.00	0.82	164.95	161.34	0.17	3.61	--	--	--	1	1
		SOUTH 60TH ST	112+07.32	66.88' RT	S. 60TH ST	IN-11.3	166.08	0.67	0.67	164.74	160.47	0.17	4.27	1	--	1	--	1
		SOUTH 60TH ST	115+42.52	68.50' RT	S. 60TH ST	MH-16.1	157.66	1.00	0.82	155.84	153.01	0.17	2.83	--	--	--	1	1
		SOUTH 60TH ST	115+67.16	68.15' RT	S. 60TH ST	IN-16.4	156.95	0.67	0.67	155.61	150.87	1.83	4.74	1	--	1	--	1
		SUBTOTAL												3	--	3	2	5
		CATEGORY TOTAL												3	--	3	4	7
		PROJECT TOTAL												49	24	50	45	121

NOTE
1) STATIONS SHOWN ARE TO THE CENTER OF STRUCTURE
2) OFFSETS ARE TO THE FLANGE LINE FOR STRUCTURES IN THE ROADWAY WITH INLET GRATES AND TO THE CENTER OF COVER FOR FIELD INLETS AND MANHOLES WIT
3) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES
*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONTINUED FROM PREVIOUS PAGE

ADJUSTING MANHOLE & INLET COVERS

CATEGORY	STAGE	LOCATION	STATION	OFFSET	ALIGNMENT	STRUCTURE NUMBER	EXISTING RIM ELEVATION	TO	PROPOSED RIM ELEVATION	SPV.0060.031* INLET COVER TYPE MS 57 EACH	SPV.0060.033* MANHOLE COVER TYPE MS 58-A EACH	COMMENTS
0010	1	SOUTH 60TH STREET	103+46.62	30.48' LT	S 60TH ST	MH-210	183.50	-	183.31	--	1	
		SOUTH 60TH STREET	104+37.74	31.64' LT	S 60TH ST	MH-215	183.32	-	182.80	--	1	
		SOUTH 60TH STREET	106+72.40	31.42' LT	S 60TH ST	MH-225	180.17	-	180.16	--	1	
		WEST HOLT AVE	106+72.59	58.76' LT	S 60TH ST	MH-226	180.00	-	179.92	--	1	
		SOUTH 60TH STREET	108+53.90	31.10' LT	S 60TH ST	MH-230	176.00	-	175.82	--	1	
		SOUTH 60TH STREET	109+98.11	30.31' LT	S 60TH ST	MH-235	172.10	-	171.80	--	1	
		SOUTH 60TH STREET	113+28.51	32.58' LT	S 60TH ST	MH-245	163.39	-	163.18	--	1	
		SOUTH 60TH STREET	122+51.42	30.11' LT	S 60TH ST	MH-425	147.89	-	147.94	--	1	
		SOUTH 60TH STREET	125+69.81	40.98' LT	S 60TH ST	IN-23.1	142.12	-	142.68	1	--	
		SOUTH 60TH STREET	129+80.89	29.97' LT	S 60TH ST	MH-510	134.83	-	134.88	--	1	
		SOUTH 60TH STREET	130+51.19	26.00' LT	S 60TH ST	MH-700	134.09	-	133.91	--	1	
		SOUTH 60TH STREET	132+13.04	26.05' LT	S 60TH ST	MH-710	132.20	-	131.91	--	1	
		SOUTH 60TH STREET	132+68.63	26.07' LT	S 60TH ST	MH-715	131.48	-	131.18	--	1	
		SOUTH 60TH STREET	134+53.48	26.13' LT	S 60TH ST	MH-720	129.24	-	128.64	--	1	
		SOUTH 60TH STREET	135+65.67	26.48' LT	S 60TH ST	MH-725	128.68	-	127.92	--	1	
		SOUTH 60TH STREET	136+87.56	26.26' LT	S 60TH ST	MH-730	128.77	-	128.35	--	1	
		SOUTH 60TH STREET	139+62.47	27.33' LT	S 60TH ST	MH-745	128.69	-	128.56	--	1	
		SOUTH 60TH STREET	142+76.85	28.78' LT	S 60TH ST	MH-900	130.29	-	129.88	--	1	
		WEST MONTANA STREET	146+09.27	62.51' LT	S 60TH ST	MH-906	126.33	-	126.16	--	1	
		SOUTH 60TH STREET	149+55.64	30.55' LT	S 60TH ST	MH-910	118.87	-	118.54	--	1	
		SOUTH 60TH STREET	153+38.55	30.87' LT	S 60TH ST	MH-825	114.44	-	114.02	--	1	
		SOUTH 60TH STREET	153+78.45	29.44' LT	S 60TH ST	MH-830	114.35	-	113.69	--	1	
		SOUTH 60TH STREET	156+96.68	29.64' LT	S 60TH ST	MH-850	114.37	-	113.96	--	1	
		W KINNICKINNIC PKWY	159+04.94	72.62' LT	S 60TH ST	IN-1010	114.60	-	114.60	1	--	
		SOUTH 60TH STREET	159+84.05	27.61' lt	S 60TH ST	MH-1003	116.51	-	116.51	--	1	
		SUBTOTAL								2	23	
	2	SOUTH 60TH STREET	102+05.81	37.68' RT	S 60TH ST	MH-100	183.69	-	182.87	--	1	
		SOUTH 60TH STREET	104+09.87	37.68' RT	S 60TH ST	MH-105	182.92	-	182.53	--	1	
		SOUTH 60TH STREET	112+88.15	67.70' RT	S 60TH ST	MH-125	163.30	-	163.88	--	1	
		SOUTH 60TH STREET	113+29.80	67.84' RT	S 60TH ST	MH-130	163.07	-	162.96	--	1	
		SOUTH 60TH STREET	115+88.45	38.57' RT	S 60TH ST	MH-310	157.17	-	156.68	--	1	
		SOUTH 60TH STREET	124+35.82	37.89' RT	S 60TH ST	MH-325	144.87	-	144.54	--	1	
		SOUTH 60TH STREET	125+78.26	42.00' RT	S 60TH ST	IN-24.1	142.30	-	142.17	1	--	
		WEST BENNETT AVE	129+81.89	46' RT	S 60TH ST	MH-515	134.49	-	134.20	--	1	
		SOUTH 60TH STREET	130+56.05	26.60' RT	S 60TH ST	MH-600	134.11	-	133.71	--	1	
		SOUTH 60TH STREET	132+29.99	26.75' RT	S 60TH ST	MH-605	131.95	-	131.76	--	1	
		SOUTH 60TH STREET	134+53.78	26.64' RT	S 60TH ST	MH-610	129.14	-	128.58	--	1	
		SOUTH 60TH STREET	136+45.21	27.16' RT	S 60TH ST	MH-65.2	128.64	-	127.85	--	1	
		SOUTH 60TH STREET	137+26.50	26.53' RT	S 60TH ST	MH-620	128.67	-	128.23	--	1	
		SOUTH 60TH STREET	139+32.66	26.93' RT	S 60TH ST	MH-630	128.42	-	127.85	--	1	
		SOUTH 60TH STREET	139+64.27	27.72' RT	S 60TH ST	MH-635	128.36	-	127.69	--	1	
		SOUTH 60TH STREET	141+67.95	26.63' RT	S 60TH ST	MH-637	129.16	-	128.61	--	1	
		SOUTH 60TH STREET	142+68.05	26.36' RT	S 60TH ST	MH-800	129.88	-	129.28	--	1	
		SOUTH 60TH STREET	153+13.42	28.44' RT	S 60TH ST	MH-820	114.78	-	114.38	--	1	
		SUBTOTAL								1	17	
		CATEGORY TOTAL								3	40	
0020	1	SOUTH 60TH STREET	113+92.21	67.05' LT	S 60TH ST	MH-400	162.26	-	162.36	--	1	
		SOUTH 60TH STREET	114+96.84	67.38' LT	S 60TH ST	MH-405	159.80	-	159.87	--	1	
		SOUTH 60TH STREET	116+32.08	67.51' LT	S 60TH ST	MH-410	157.17	-	157.42	--	1	
		SOUTH 60TH STREET	119+62.58	67.93' LT	S 60TH ST	MH-415	152.82	-	152.80	--	1	
		SUBTOTAL								--	4	
	2	SOUTH 60TH STREET	107+35.16	67.48' RT	S 60TH ST	MH-15	177.83	-	177.97	--	1	
		SOUTH 60TH STREET	109+75.74	67.52' RT	S 60TH ST	MH-120	171.79	-	172.09	--	1	
		SOUTH 60TH STREET	113+94.85	67.93' RT	S 60TH ST	MH-300	161.19	-	161.87	--	1	
		SUBTOTAL								--	3	
		CATEGORY TOTAL								--	7	
		PROJECT TOTAL								3	47	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

WATER MAIN PROTECTION

CATEGORY	STAGE	STRUCTURE	STATION	OFFSET	ALIGNMENT	SPV.0060.005 WATER MAIN PROTECTION EACH
0020	1	IN-3	102+22.51	36.00' LT	S. 60TH ST	1
		IN-4	103+46.37	36.00' LT	S. 60TH ST	1
		IN-5.1	104+37.14	36.00' LT	S. 60TH ST	1
		IN-6.1	105+98.48	36.00' LT	S. 60TH ST	1
		IN-7.1	106+57.46	64.77' LT	S. 60TH ST	1
		IN-10	109+97.81	36.00' LT	S. 60TH ST	1
		IN-12	112+50.21	36.00' LT	S. 60TH ST	1
		IN-14	113+09.32	63.50' LT	S. 60TH ST	1
		IN-16	113+91.27	40.04' LT	S. 60TH ST	1
		IN-17.1	116+31.70	36.00' LT	S. 60TH ST	1
		IN-17.2	116+22.51	36.00' LT	S. 60TH ST	1
		IN-19.1	119+00.14	41.00' LT	S. 60TH ST	1
		IN-21	122+51.58	40.76' LT	S. 60TH ST	1
		IN-26	129+49.27	40.00' LT	S. 60TH ST	1
		IN-34	134+53.52	36.00' LT	S. 60TH ST	1
		IN-36.1	135+75.01	36.00' LT	S. 60TH ST	1
		IN-38	136+89.05	36.00' LT	S. 60TH ST	1
		IN-40	138+85.69	36.00' LT	S. 60TH ST	1
		IN-45	140+84.88	36.00' LT	S. 60TH ST	1
		IN-47	145+55.21	36.00' LT	S. 60TH ST	1
		IN-52	149+52.70	36.00' LT	S. 60TH ST	1
		IN-54	152+38.77	36.00' LT	S. 60TH ST	1
		IN-59	153+77.29	36.00' LT	S. 60TH ST	1
		IN-60	154+66.11	36.00' LT	S. 60TH ST	1
	2	IN-9.1	109+76.52	29.00' RT	S. 60TH ST	1
		IN-16.3	115+38.88	29.00' RT	S. 60TH ST	1
		IN-27.3	129+73.10	65.68' RT	S. 60TH ST	1
		PROJECT TOTAL				27

RESTORATION ITEMS

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO	STATION	OFFSET	ALIGNMENT	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY	COMMENTS
0010	1	S 60TH ST	100+83	-	106+65	LT			701	0.4	16	701	TERRACE/BEHIND SIDEWALK
			106+65	-	113+23	LT			734	0.5	16	734	TERRACE/BEHIND SIDEWALK
			113+23	-	125+82	LT			424	0.3	10	424	TERRACE/BEHIND SIDEWALK
			127+06	-	139+67	LT			1,132	0.7	25	1,132	TERRACE/BEHIND SIDEWALK
			139+67	-	146+28	LT			733	0.5	16	733	TERRACE/BEHIND SIDEWALK
			146+28	-	152+89	LT			558	0.4	13	558	TERRACE/BEHIND SIDEWALK
			152+89	-	160+01	LT			748	0.5	17	748	TERRACE/BEHIND SIDEWALK
		SUBTOTAL							5,030	3.3	113	5,030	
	2	S 60TH ST	100+83	-	106+65	RT			619	0.4	14	619	TERRACE/BEHIND SIDEWALK
			106+65	-	113+23	LT/RT			1,746	1.1	39	1,746	MEDIAN/FRONTAGE RD MEDIAN
			113+23	-	125+82	LT/RT			2,391	1.5	54	2,391	MEDIANS/TERRACE/BEHIND SIDEWALK
			127+06	-	139+67	LT/RT			2,161	1.4	49	2,161	MEDIANS/TERRACE/BEHIND SIDEWALK
			139+67	-	146+28	LT/RT			1,713	1.1	38	1,713	MEDIANS/TERRACE/BEHIND SIDEWALK
			146+28	-	152+89	LT/RT			1,585	1.0	36	1,585	MEDIANS/TERRACE/BEHIND SIDEWALK
			152+89	-	160+01				726	0.5	16	726	TERRACE/BEHIND SIDEWALK
		SUBTOTAL							10,941	7.0	246	10,941	
	3	S 60TH ST	100+83	-	106+65	LT/RT			764	0.5	17	764	MEDIAN/TERRACE
			106+65	-	113+23	LT			25	--	1	25	TERRACE
			113+23	-	125+82	LT/RT			1,027	0.6	23	1,027	MEDIAN
			127+06	-	139+67	LT/RT			455	0.3	10	455	MEDIAN/TERRACE
			139+67	-	146+28	LT			5	--	--	5	TERRACE
			152+89	-	160+01	LT/RT			850	0.5	19	850	MEDIAN
		SUBTOTAL							3,126	1.9	70	3,126	
		CATEGORY TOTAL							19,097	12.2	429	19,097	
0020	1	S 60TH ST	113+23	-	125+82	LT			486	0.6	11	486	TERRACE/BEHIND SIDEWALK
		SUBTOTAL							486	0.6	11	486	
	2	S 60TH ST	106+65	-	113+23	RT			607	0.6	14	607	TERRACE/BEHIND SIDEWALK
			113+23	-	125+82	RT			318	0.6	7	318	TERRACE/BEHIND SIDEWALK
		SUBTOTAL							925	1.2	21	925	
		CATEGORY TOTAL							1,411.0	1.8	32.0	1,411	
		PROJECT TOTAL							20,508	14.0	461	20,508	

INLET PROTECTION

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	COMMENTS
0010	1	S 60TH ST	100+83	-	106+65	LT/RT		6	9	
			106+65	-	113+23	LT/RT		5	7	
			113+23	-	125+82	LT/RT		7	14	
			127+06	-	139+67	LT/RT		9	24	
			139+67	-	146+28	LT/RT		5	9	
			146+28	-	152+89	LT/RT		4	7	
			152+89	-	160+01	LT/RT		8	15	
		SIDE ROADS						--	30	
		SUBTOTAL						44	115	
	2		100+83	-	106+65	LT/RT		3	3	
			106+65	-	113+23	LT/RT		3	6	
			113+23	-	125+82	LT/RT		5	5	
			127+06	-	139+67	LT/RT		8	8	
			139+67	-	146+28	LT/RT		1	2	
			146+28	-	152+89	LT/RT		3	3	
			152+89	-	160+01	LT/RT		3	3	
		SUBTOTAL						26	30	
		CATEGORY TOTAL						70	145	
0020	1	S 60TH ST	106+65	-	113+23	LT/RT		--	3	
			113+23	-	125+82	LT/RT		2	9	
		SUBTOTAL						2	12	
	2	S 60TH ST	106+65	-	113+23	LT/RT		3	3	
			113+23	-	125+82	LT/RT		2	2	
		SUBTOTAL						5	5	
		CATEGORY TOTAL						7	17	
		PROJECT TOTAL						77	162	

RIPRAP ITEMS

CATEGORY	STAGE	LOCATION	STATION	TO	STATION	OFFSET	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE TYPE HR SY
0010	2	S 60TH ST	157+87	-	158+38	RT	166	293
		SUBTOTAL					166	293
		CATEGORY TOTAL					166	293
		PROJECT TOTAL					166	293

EROSION CONTROL ITEMS

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO	STATION	OFFSET	SPV.0090.040 HEAVY DUTY SILT FENCE LF	628.2008 EROSION MAT URBAN CLASS I TYPE B SY
0010	2	S 60TH ST	157+85	-	158+40	RT		139	401
		SUBTOTAL						139	401
		CATEGORY TOTAL						139	401
		PROJECT TOTAL						139	401

EROSION CONTROL MOBILIZATION

CATEGORY	STAGE	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	COMMENTS
0010	1	3	2	
	2	3	2	
	3	2	1	
CATEGORY TOTAL		8	5	
PROJECT TOTAL		8	5	

TEMPORARY PAVEMENT MARKING ITEMS

					649.0105			649.0150			
					TEMPORARY MARKING LINE PAINT 4-INCH			TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH			
CATEGORY	STAGE	LOCATION	STATION TO	STATION	ALIGNMENT	2' LINE 6' SKIP YELLOW LF	SOLID YELLOW LF	SOLID WHITE LF	SOLID YELLOW 2' LINE 6' SKIP LF	SOLID YELLOW LF	SOLID WHITE LF	COMMENTS
0010	1B	S 60TH ST	94+50	106+65		--	126	1,315	--	--	680	
			106+65	113+23		--	1,326	556	--	--	--	
			113+23	125+82		--	1,340	2,353	--	--	--	
			127+06	139+67		--	1,516	2,006	--	--	--	
			139+67	146+28		--	1,106	553	--	--	--	
			146+28	152+89		--	1,108	625	--	--	--	
			152+89	162+50		--	150	1,455	--	--	500	
		CLEVELAND AVE	54+00	58+50		50	200	1,225				
		SUBTOTAL				50	6,872	10,088		--	1,180	
	1C	S 60TH ST	94+50	106+65		--	--	798	--	--	--	
			106+65	113+23		--	--	--	--	--	--	
			113+23	125+82		--	--	594	--	--	--	
			127+06	139+67		--	--	662	--	--	--	
			139+67	146+28		--	--	--	--	--	--	
			146+28	152+89		--	--	--	--	--	--	
			152+89	162+50		--	--	1,107	--	--	770	
		CLEVELAND AVE	54+00	58+50		570	570	756	--	--	--	
		SUBTOTAL				570	570	3,917	--	--	770	
	1D	S 60TH ST	152+89	162+50			--	630				
		SUBTOTAL				--	--	630	--	--	--	
		STAGE TOTAL					22,697				1,950	
	2A	S 60TH ST	100+83	106+65		--	--	--	--	160	1,055	
			106+65	113+23		--	--	--	--	1,144	--	
			113+23	125+82		--	--	--	--	950	1,400	
			127+06	139+67		--	--	--	--	1,460	1,780	
			139+67	146+28		--	--	--	--	1,180	--	
			146+28	152+89		--	--	--	--	1,160	691	
			152+89	160+01		--	--	--	--	220	2,085	
		CLEVELAND AVE	54+00	58+50		--	--	--	18	184	580	
		SUBTOTAL				--	--	--	18	6,458	7,591	
	2B	S 60TH ST	100+83	106+65		--	--	--	--	--	980	
			106+65	113+23		--	--	--	--	--	--	
			113+23	125+82		--	--	--	--	240	720	
			127+06	139+67		--	--	--	--	--	1,425	
			139+67	146+28		--	--	--	--	--	--	
			146+28	152+89		--	--	--	--	--	--	
			152+89	160+01		--	--	--	--	--	1,097	
		CLEVELAND AVE	54+00	58+50		--	--	--	15	680	455	
		SUBTOTAL				--	--	--	15	920	4,677	
		STAGE TOTAL				--	--	--		7,378	12,268	
		CATEGORY TOTAL					22,697				21,596	
		PROJECT TOTAL					22,697				21,596	

TRAFFIC CONTROL ITEMS

CATEGORY	STAGE	LOCATION	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS NO.	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0500 CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III NO.	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A NO.	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C NO.	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS NO.	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS NO.	643.0900 TRAFFIC CONTROL SIGNS DAY
0010	1A	S 60TH ST	5	226	1,130	--	--	--	--	--	--	69	345	4	20	48	240
	1B	S 60TH ST	15	295	4,425	--	--	49	735	68	1,020	153	2,295	2	30	95	475
	1C	S 60TH ST	15	302	4,530	13	13	51	765	70	1,050	129	1,935	2	30	82	410
	1D	S 60TH ST	15	274	4,110	--	--	31	465	44	660	58	870	1	15	62	310
	2A	S 60TH ST	20	240	4,800	7	7	35	700	46	920	121	2,420	2	40	84	420
	2B	S 60TH ST	20	175	3,500	14	14	25	500	36	720	104	2,080	1	20	76	380
	2C	S 60TH ST	14	56	784	--	--	20	280	26	364	40	560	--	--	49	245
	3A	S 60TH ST	5	375	1,875	--	--	--	--	--	--	24	120	2	10	42	210
	3B	S 60TH ST	4	58	232	--	--	--	--	--	--	16	64	2	8	50	200
		CATEGORY TOTAL			25,386	34	34		3,445		4,734		10,689		173		2,890
0020	1B	SERVICE ROADS	15	20	300	--	--	8	120	12	180	--	--	--	--	4	60
	1C	SERVICE ROADS	15	20	300	--	--	8	120	12	180	--	--	--	--	4	60
	1D	SERVICE ROADS	15	20	300	--	--	8	120	12	180	--	--	--	--	4	60
	2A	SERVICE ROADS	20	20	400	--	--	8	160	12	180	--	--	--	--	4	80
	2B	SERVICE ROADS	20	20	400	--	--	8	160	12	180	--	--	--	--	4	80
	2C	SERVICE ROADS	14	20	280	--	--	8	112	12	180	--	--	--	--	4	56
						--											
		CATEGORY TOTAL			1,980				792		1,080	--	--	--	--		396
		PROJECT TOTAL			27,366	34	34		4,237		5,814		10,689		173		3,286

TRAFFIC CONTROL

CATEGORY	STAGE	LOCATION	643.5000 TRAFFIC CONTROL EACH
0010	ALL	PROJECT	1
		PROJECT TOTAL	1

TRAFFIC CONTROL SIGNS PCMS

CATEGORY	STAGE	LOCATION	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS
0010	ALL	PROJECT	14
		PROJECT TOTAL	14

LONG LINE PAVEMENT MARKING ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	ALIGNMENT	646.1020 MARKING LINE EPOXY 4-INCH 2' LINE 6' SKIP WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH 2' LINE 6' SKIP SOLID WHITE LF	SPV.0090.050 MARKING LINE EPOXY 6-INCH 2' LINE 6' SKIP WHITE LF	SPV.0090.050 MARKING LINE EPOXY 6-INCH 2' LINE 6' SKIP SOLID WHITE LF	646.3020 MARKING LINE EPOXY 8-INCH SOLID WHITE LF	SPV.0090.051 MARKING DIAGONAL EPOXY 4-INCH SOLID WHITE LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9300 MARKING REMOVAL SPECIAL MARKING EACH
0010	NB BIKE LANE EDGE	100+51	-	106+31	S 60TH ST	--	511	--	--	--	--	--	--
	NB EDGE LINE	100+51	-	106+31	S 60TH ST	--	--	20	511	--	--	--	--
	NB LT TURN LANE	105+56	-	106+31	S 60TH ST	--	--	--	--	75	--	--	--
	SB BIKE LANE EDGE	100+51	-	106+31	S 60TH ST	--	459	--	--	--	--	--	--
	SB EDGE LINE	100+51	-	106+31	S 60TH ST	--	--	20	478	--	--	--	--
	SB LT TURN LANE	100+51	-	101+53	S 60TH ST	--	--	--	--	100	--	--	--
	NB EDGE LINE	107+00	-	112+81	S 60TH ST	--	--	20	499	--	--	--	--
	NB LT TURN LANE	112+06	-	112+81	S 60TH ST	--	--	--	--	75	--	--	--
	SB BIKE LANE EDGE	107+00	-	112+81	S 60TH ST	--	489	--	--	--	--	--	--
	SB EDGE LINE	107+00	-	112+81	S 60TH ST	--	--	20	506	--	--	--	--
	SB LT TURN LANE	107+00	-	107+75	S 60TH ST	--	--	--	--	75	--	--	--
	NB EDGE LINE	113+60	-	119+04	S 60TH ST	--	--	--	544	--	--	--	--
	NB BIKE LANE EDGE	116+02	-	119+04	S 60TH ST	--	302	--	--	--	--	--	--
	SB BIKE LANE EDGE	113+60	-	119+04	S 60TH ST	--	--	20	472	--	--	--	--
	SB EDGE LINE	113+60	-	119+04	S 60TH ST	--	472	--	--	--	--	--	--
	SB LT TURN LANE	113+60		114+35	S 60TH ST	--	--	--	--	75	--	--	--
	NB BIKE LANE EDGE	119+74	-	124+81	S 60TH ST	--	1,014	26	507	--	--	--	--
	NB GORE	119+74	-	124+81	S 60TH ST	--	--	--	--	--	61	--	--
	NB RT TURN LANE	124+81	-	125+81	S 60TH ST	--	--	26	--	--	--	--	--
	NB LT TURN LANE	124+81	-	125+81	S 60TH ST	--	--	--	--	100	--	--	--
	SB GORE	119+74	-	125+81	S 60TH ST	--	604	--	--	--	73	--	--
	SB BIKE LANE EDGE	119+74	-	125+81	S 60TH ST	--	604	--	604	--	--	--	--
	NB STOP LINE	125+81		125+81	S 60TH ST	--	--	--	--	--	--	--	--
	SB STOP LINE	127+10	-	127+11	S 60TH ST	--	--	--	--	--	--	--	--
	NB BIKE LANE EDGE	127+14	-	128+73	S 60TH ST	--	317	--	--	--	--	--	--
	NB GORE	127+14	-	129+48	S 60TH ST	--	--	20	159	--	26	--	--
	NB BIKE LANE EDGE	130+31	-	138+64	S 60TH ST	--	1,386	--	--	--	--	--	--
	NB GORE	130+31	-	135+70	S 60TH ST	--	--	--	547	--	59	--	--
	NB LT TURN LANE	131+17	-	131+93	S 60TH ST	--	--	--	--	75	--	--	--
	NB EDGE LINE	135+70	-	139+38	S 60TH ST	--	--	20	293	--	--	--	--
	NB LT TURN LANE	138+63	-	139+38	S 60TH ST	--	--	--	--	75	--	--	--
	SB LT TURN LANE	127+10	-	129+10	S 60TH ST	--	--	--	--	200	--	--	--
	SB BIKE LANE EDGE	128+10	-	139+09	S 60TH ST	--	1,098	--	--	--	--	--	--
	SB GORE	127+10	-	133+61	S 60TH ST	--	550	20	550	--	60	--	--
	SB LT TURN LANE	129+93	-	130+68	S 60TH ST	--	--	--	--	100	--	--	--
	SB EDGE LINE	133+61	-	139+38	S 60TH ST	--	--	--	578	--	--	--	--
	NB EDGE LINE	140+04	-	152+40	S 60TH ST	--	--	26	1,134	--	--	--	--
	NB BIKE LANE EDGE	140+26	-	145+68	S 60TH ST	--	542	--	--	--	--	--	--
	NB BIKE LANE EDGE	146+85	-	151+38	S 60TH ST	--	453	--	--	--	--	--	--
	NB LT TURN LANE	145+22	-	145+97	S 60TH ST	--	--	--	--	75	--	--	--
	NB LT TURN LANE	151+38	-	152+40	S 60TH ST	--	--	--	--	100	--	--	--
	NB STOP LINE	152+40	-	152+40	S 60TH ST	--	--	--	--	--	--	--	--
	SB LT TURN LANE	139+98	-	140+71	S 60TH ST	--	--	--	--	75	--	--	--
	SB EDGE LINE	139+98	-	145+89	S 60TH ST	--	--	20	518	--	--	--	--
	SB BIKE LANE EDGE	140+71	-	145+69	S 60TH ST	--	498	--	--	--	--	--	--
	SB EDGE LINE	146+64	-	152+44	S 60TH ST	--	--	20	504	--	--	--	--
	SB BIKE LANE EDGE	146+64	-	152+44	S 60TH ST	--	504	--	--	--	--	--	--
	EB W CLEVELAND AVE STOP LINE	152+69	-	152+87	S 60TH ST	--	--	--	--	--	--	--	--
	WB W CLEVELAND AVE STOP LINE	152+89	-	153+08	S 60TH ST	--	--	--	--	--	--	--	--
	SB STOP LINE	153+37	-	153+37	S 60TH ST	--	--	--	--	--	--	--	--
	NB BIKE LANE EDGE	153+33	-	158+29	S 60TH ST	--	466	--	--	--	--	--	--
	NB EDGE LINE	153+33	-	159+04	S 60TH ST	--	--	20	466	--	--	--	--
	NB LT TURN LANE	157+80	-	158+80	S 60TH ST	--	--	--	--	100	--	--	--
	SB LT TURN LANE	153+37	-	154+39	S 60TH ST	--	--	--	--	100	--	--	--
	SB EDGE LINE	153+37	-	158+82	S 60TH ST	--	--	26	443	--	--	--	--
	SB BIKE LANE EDGE	154+39	-	158+82	S 60TH ST	--	443	--	--	--	--	--	--
	NB BIKE LANE EDGE	159+84	-	165+06	S 60TH ST	--	523	--	--	--	--	--	--
	NB GORE	159+84	-	165+81	S 60TH ST	--	523	20	523	--	87	--	--
	SB GORE	159+70	-	165+75	S 60TH ST	--	531	20	531	--	63	--	--
	SB BIKE LANE EDGE	159+70	-	165+75	S 60TH ST	--	531	--	--	--	--	--	--
	UNDISTRIBUTED											1,000	5
	PROJECT TOTAL					12,820		10,731		1,400	429	1,000	5

MISCELLANEOUS PAVEMENT MARKING ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	ALIGNMENT	646.5020 MARKING ARROW EPOXY EACH	646.5220 MARKING SYMBOL EPOXY EACH	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH	CATEGORY	SPV.0060.051 MARKING ARROW GROOVED PREFORMED PLASTIC EACH	SPV.0060.052 MARKING WORD GROOVED PREFORMED PLASTIC EACH	SPV.0090.052 MARKING CROSSWALK GROOVED PREFORMED PLASTIC 12-INCH LF	SPV.0090.053 MARKING STOP LINE GROOVED PREFORMED PLASTIC 24-INCH LF	SPV.0090.054 MARKING CROSSWALK GROOVED PREFORMED PLASTIC LADDER PATTERN 24-INCH LF	COMMENTS
0010	MEDIAN ISLAND	100+50	-	100+67		--	--	30	1	0020	--	--	--	--	--	
	NB BIKE LANE	105+90	-	106+30	S 60TH ST	1	1	--	--		--	--	--	--	--	
	SB BIKE LANE	105+90	-	106+30	S 60TH ST	1	1	--	--		--	--	--	--	--	
	MEDIAN ISLAND	105+90	-	106+30	S 60TH ST	--	--	55	1		--	--	--	--	--	
	MEDIAN ISLAND	107+25	-	107+50	S 60TH ST	--	--	30	1		--	--	--	--	--	
	MEDIAN ISLAND	107+00	-	107+33	S 60TH ST	--	--	60	1		--	--	--	--	--	
	NB BIKE LANE	107+08	-	112+82	S 60TH ST	1	1	--	--		--	--	--	--	--	
	SB BIKE LANE	107+08	-	112+82	S 60TH ST	1	1	--	--		--	--	--	--	--	
	MEDIAN ISLAND	111+65	-	111+80	S 60TH ST	--	--	30	1		--	--	--	--	--	
	MEDIAN ISLAND	112+49	-	112+80	S 60TH ST	--	--	55	1		--	--	--	--	--	
	MEDIAN ISLAND	113+60	-	113+95	S 60TH ST	--	--	60	1		--	--	--	--	--	
	NB BIKE LANE	113+60	-	119+08	S 60TH ST	1	1	--	--		--	--	--	--	--	
	MEDIAN ISLAND	114+30	-	114+45	S 60TH ST	--	--	30	1		--	--	--	--	--	
	MEDIAN ISLAND	115+35	-	115+50	S 60TH ST	--	--	30	1		--	--	--	--	--	
	MEDIAN ISLAND	118+70	-	119+15	S 60TH ST	--	--	65	1		--	--	--	--	--	
	CROSSWALK	119+68	-	119+74	S 60TH ST	--	--	--	--		--	--	160	--	90	CROSSING S 60TH ST
	MEDIAN ISLAND	119+76	-	119+91	S 60TH ST	--	--	30	1		--	--	--	--	--	
	SB BIKE LANE	119+74	-	125+78	S 60TH ST	1	1	--	--		--	--	--	--	--	
	MEDIAN ISLAND	121+65	-	122+10	S 60TH ST	--	--	65	1		--	--	--	--	--	
	MEDIAN ISLAND	122+60	-	123+00	S 60TH ST	--	--	65	1		--	--	--	--	--	
	NB RIGHT TURN	124+81	-	125+81	S 60TH ST	--	--	--	--		1	1	--	--	--	
	MEDIAN ISLAND	125+50	-	125+80	S 60TH ST	--	--	60	1		--	--	--	45	--	
	MEDIAN ISLAND	127+06	-	127+40	S 60TH ST	--	--	60	1		--	--	--	45	--	
	NB BIKE LANE	127+14	-	128+73	S 60TH ST	1	1	--	--		--	--	--	--	--	
	SB RIGHT TURN	127+10	-	128+11	S 60TH ST	--	--	--	--		1	1	--	--	--	
	MEDIAN ISLAND	129+50	-	129+95	S 60TH ST	--	--	61	1		--	--	--	--	--	
	MEDIAN ISLAND	130+05		130+15	S 60TH ST	--	--	12	1		--	--	145	--	--	
	NB BIKE LANE	130+24	-	138+64	S 60TH ST	1	1	--	--		--	--	--	--	--	
	SB BIKE LANE	128+10	-	139+39	S 60TH ST	1	1	--	--		--	--	--	--	--	
	MEDIAN ISLAND	131+75		131+90	S 60TH ST	--	--	30	1		--	--	--	--	--	
	MEDIAN ISLAND	132+20		132+35	S 60TH ST	--	--	30	1		--	--	--	--	--	
	MEDIAN ISLAND	139+15		139+35	S 60TH ST	--	--	40	1		--	--	--	--	--	
	CROSSWALK	139+38	-	139+45	S 60TH ST	--	--	--	--		--	--	144	--	84	CROSSING S 60TH ST SOUTH OF W STACK DRIVE
	MEDIAN ISLAND	139+95	-	140+00	S 60TH ST	--	--	40	1		--	--	--	--	--	
	NB BIKE LANE	140+04	-	152+40	S 60TH ST	1	1	--	--		--	--	--	--	--	
	SB BIKE LANE	140+04	-	152+40	S 60TH ST	2	2	--	--		--	--	--	--	--	
	MEDIAN ISLAND	145+75		145+95	S 60TH ST	--	--	40	1		--	--	--	--	--	
	MEDIAN ISLAND	146+45	-	147+00	S 60TH ST	--	--	75	1		--	--	--	--	--	
	MEDIAN ISLAND	152+25		152+40	S 60TH ST	--	--	30	1		--	--	--	--	--	
	CROSSWALK	152+44	-	152+50	S 60TH ST	--	--	--	--		--	--	145	39	--	CROSSING S 60TH ST SOUTH OF W CLEVELAND AVE
	CROSSWALK	152+65	-	153+11	S 60TH ST	--	--	--	--		--	--	86	18	--	CROSSING W CLEVELAND AVE WEST OF S 60TH ST
	CROSSWALK	152+65	-	153+11	S 60TH ST	--	--	--	--		--	--	87	18	--	CROSSING W CLEVELAND AVE EAST OF S 60TH ST
	CROSSWALK	153+27	-	153+33	S 60TH ST	--	--	--	--		--	--	146	39	--	CROSSING S 60TH ST NORTH OF W CLEVELAND AVE
	MEDIAN ISLAND	153+35		155+50	S 60TH ST	--	--	30	1		--	--	--	--	--	
	NB BIKE LANE	153+33	-	158+29	S 60TH ST	1	1	--	--		--	--	--	--	--	
	SB BIKE LANE	153+33	-	158+82	S 60TH ST	1	1	--	--		--	--	--	--	--	
	MEDIAN ISLAND	158+65		158+80	S 60TH ST	--	--	30	1		--	--	--	--	--	
	NB BIKE LANE	159+84	-	165+07	S 60TH ST	1	1	--	--		--	--	--	--	--	
	SB BIKE LANE	159+70	-	165+76	S 60TH ST	1	1	--	--		--	--	--	--	--	
PROJECT TOTAL						16	16	1,143	26		2	2	913	204	174	

TEMPORARY PEDESTRIAN ACCOMODATIONS

CATEGORY	STAGE	LOCATION	STATION	644.1410.S TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1420.S TEMPORARY PEDESTRIAN SURFACE PLYWOOD SF	644.1430.S TEMPORARY PEDESTRIAN SURFACE PLATE SF	644.1601.S TEMPORARY CURB RAMP EACH	644.1616.S TEMPORARY PEDESTRIAN SAFETY FENCE LF	SPV.0060.020 TEMPORARY BUS LOADING ZONE EACH	COMMENTS
0010	1	S 60TH ST	LT	--	--	--	--	--	1	SB 60TH ST SOUTH OF W MORGAN AVE
			LT	360	--	--	4	--	1	INTERSECTION S 60TH ST AND HOLT AVE
			LT	360	--	--	4	--	--	INTERSECTION S 60TH ST AND W OHIO AVE
			113+75	--	--	--	--	--	1	SB 60TH ST ON NORTH SIDE W OHIO
			LT	360	--	--	4	--	--	INTERSECTION S 60TH ST AND W STACK DR
			139+75	--	--	--	--	--	1	SB 60TH ST AT W STACK DR
			LT	360	--	--	2	--	--	INTERSECTION S 60TH ST AND W MONTANA ST
			157+25	--	--	--	--	--	1	SB 60TH ST SOUTH OF KICKINNICK PKWY
			127+75	--	--	--	--	--	1	SB 60TH ST ON NORTH SIDE W OKLAHOMA AVE
			153+25	--	--	--	--	--	1	SB 60TH ST ON NORTH SIDE CLEVELAND AVE
			LT	360	--	--	4	--	--	INTERSECTION S 60TH ST AND W CLEVELANT AVE
		UNDISTRIBUTED		150	300	600	2	50	--	
		SUBTOTAL		1,950	300	600	20	50	7	
	2	S 60TH ST	113+00	--	--	--	--	--	1	NB 60TH ST AT W OHIO AVE
			RT	360	--	--	4	--	--	INTERSECTION S 60TH ST AND HOLT AVE
			RT	360	--	--	4	--	--	INTERSECTION S 60TH ST AND W OHIO AVE
			139+50	--	--	--	--	--	1	NB 60TH ST AT W STACK DR
			RT	180	--	--	4	--	--	INTERSECTION S 60TH ST AND W STACK DR
			125+75	--	--	--	--	--	1	NB 60TH SOUTH SIDE W OKLAHOMA AVE
			152+50	--	--	--	--	--	1	NB 60TH ST SOUTH SIDE W CLEVELAND AVE
			RT	360	--	--	4	--	--	INTERSECTION S 60TH ST AND W CLEVELANT AVE
		UNDISTRIBUTED		150	300	600	2	50	--	
		SUBTOTAL		1,410	300	600	18	50	4	
	3	S 60TH ST	105+75	--	150	--	4	--	--	NB 60TH ST AT W OHIO AVE
			112+50	--	150	--	4	--	--	NB 60TH ST AT W STACK DR
			138+75	--	150	--	4	--	--	NB 60TH SOUTH SIDE W OKLAHOMA AVE
			145+50	--	150	--	4	--	--	NB 60TH ST SOUTH SIDE W CLEVELAND AVE
		UNDISTRIBUTED		--	300	600	2	50	--	
		SUBTOTAL		--	900	600	18	50	--	
		CATEGORY TOTAL		3,360	1,500	1,800	56	150	11	
		PROJECT TOTAL		3,360	1,500	1,800	56	150	11	

FIELD OFFICE

CATEGORY	STAGE	LOCATION	642.5201 FIELD OFFICE TYPE C EACH
0010	ALL	PROJECT	1
		PROJECT TOTAL	1

WATER

CATEGORY	STAGE	LOCATION	624.0100 MGAL
0010	ALL	PROJECT-BASE COMPACTION	199
		PROJECT-COMMON EXCAVATION	123
		PROJECT-BORROW	--
		PROJECT TOTAL	322

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	STAGE	LOCATION	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH
0020	ALL	PROJECT	1
		PROJECT TOTAL	1

FINISHING ROADWAY

CATEGORY	STAGE	LOCATION	213.0100 FINISHING ROADWAY (PROJECT) EACH
0010	ALL	PROJECT	1
		PROJECT TOTAL	1

SAWING

CATEGORY	STAGE	LOCATION	STATION	OFFSET	TO	STATION	OFFSET	ALIGNMENT	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	COMMENTS
0010	1	S 60TH ST	100+83	-		106+65		LT	--	125	TIE-INS, DRIVEWAYS, SIDEWALKS
			106+65	-		113+23		LT	8	59	TIE-INS, DRIVEWAYS, SIDEWALKS
			113+23	-		125+82		LT	68	130	TIE-INS, DRIVEWAYS, SIDEWALKS
			127+06	-		139+67		LT	85	187	TIE-INS, DRIVEWAYS, SIDEWALKS
			139+67	-		146+28		LT	--	59	TIE-INS, DRIVEWAYS, SIDEWALKS
			146+28	-		152+89		LT	56	140	TIE-INS, DRIVEWAYS, SIDEWALKS
			152+89	-		160+01		LT	--	194	TIE-INS, DRIVEWAYS, SIDEWALKS
		SIDE ROADS						LT	--	614	-
		STAGING	100+83	-		106+65		LT/RT	--	1,768	MEDIAN
		SUBTOTAL							217	3,276	
	2	S 60TH ST	100+83	-		106+65		RT	14	140	TIE-INS, DRIVEWAYS, SIDEWALKS
			106+65	-		113+23		RT	--	11	TIE-INS, DRIVEWAYS, SIDEWALKS
			113+23	-		125+82		RT	113	258	TIE-INS, DRIVEWAYS, SIDEWALKS
			127+06	-		139+67		RT	46	304	TIE-INS, DRIVEWAYS, SIDEWALKS
			139+67	-		146+28		RT	10	96	TIE-INS, DRIVEWAYS, SIDEWALKS
			146+28	-		152+89		RT	160	57	TIE-INS, DRIVEWAYS, SIDEWALKS
			152+89	-		160+01		RT	29	143	TIE-INS, DRIVEWAYS, SIDEWALKS
		SIDE ROADS						RT	--	178	-
		STAGING	100+83	-		106+65		LT/RT	--	3,752	-
		SUBTOTAL							372	4,939	
		CATEGORY TOTAL							589	8,215	
		PROJECT TOTAL							589	8,215	

MOBILIZATION

CATEGORY	STAGE	LOCATION	619.1000 MOBILIZATION EACH
0010	ALL	PROJECT	1
		PROJECT TOTAL	1

CONSTRUCTION STAKING

CATEGORY	STAGE	LOCATION	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) LS
0010	ALL	PROJECT	1
		PROJECT TOTAL	1

SECTION CORNER MONUMENTS

CATEGORY	STAGE	LOCATION	STATION	SPV.0060.001 EACH
0010	1	S 60TH ST	152+89	1
		PROJECT TOTAL		1

ADJUSTING WATER STRUCTURES

CATEGORY	STAGE	SPV.0060.036 ADJUSTING WATER BOX EACH	SPV.0060.037 ADJUSTING WATER MANHOLE EACH	COMMENTS
0020	1	46	10	
	2	60	2	
	CATEGORY TOTAL	106	12	
	PROJECT TOTAL	106	12	

ADJUSTING SANITARY STRUCTURES

CATEGORY	STAGE	SPV.0060.034 INTERNAL SANITARY MANHOLE SEALS EACH	SPV.0060.035 ADJUSTING SANITARY MANHOLES EACH	COMMENTS
0020	1	25	25	
	2	20	20	
	3	8	8	
	CATEGORY TOTAL	53	53	
	PROJECT TOTAL	53	53	

CONSTRUCTION STAKING

CATEGORY	STAGE	LOCATION	415.5110.S CONCRETE PAVEMENT JOINT LAYOUT LS
0010	ALL	PROJECT	1
		PROJECT TOTAL	1

UTILITY LINE OPENING

CATEGORY	STAGE	LOCATION	SPV.0060.265 UTILITY LINE OPENING (ULO) EACH
0010	ALL	PROJECT	5
		PROJECT TOTAL	5

GRANULAR BACKFILL

CATEGORY	STAGE	LOCATION	209.2500 BACKFILL GRANULAR GRADE 2 TON
0010	ALL	UNDISTRIBUTED	410
		PROJECT TOTAL	410

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CITY UNDERGROUND CONDUIT

LOCATION			SPV.0060.400 ADJUSTING CUC MANHOLE COVERS EACH		SPV.0060.425 INSTALLING CONDUIT INTO EXISTING MANHOLE EACH	SPV.0090.402 2-DUCT CONDUIT CEMENT ENCASED 4-INCH RIGID NONMETALLIC CONDUIT DB-60 LF
MANHOLE #600	-	STA 106 + 94.3, 14.0 LT	1	NEW COVER		
MANHOLE #601	-	STA 113+ 45.5, 14.0 LT	1	NEW COVER		
MANHOLE #602	-	STA 119+ 57.9, 14.0 LT	1	NEW COVER	1	
MANHOLE #602	TO	STA 119 + 90.0, 8.0 RT				39
MANHOLE #603	-	STA 130 + 07.5, 14.0 LT	1	NEW COVER		
MANHOLE #604	-	STA 134 + 92.0, 14.0 LT	1	NEW COVER		
MANHOLE #605	-	STA 139 + 87.7, 14.0 LT	1	NEW COVER		
MANHOLE #606	-	STA 146 + 53.7, 14.0 LT	1	NEW COVER		
MANHOLE #607	-	STA 153 + 29.6, 14.1 LT	1	NEW COVER	1	
MANHOLE #607	TO	TRAFFIC CONTROL CABINET				94
TOTAL			8		2	133

SIGNATURE BED ITEMS

SOUTH 60TH STREET LOCATION	CAT 10 632.0101.001 CLEVELAND SELECT PEAR 3" B&B EACH*	CAT 10 632.0101.002 COMMON BALD CYPRESS 3" B&B EACH*	CAT 10 632.0101.014 GLEDITSIA SHADEMASTER 3" B&B EACH	CAT 10 632.0101.015 MALUS PRAIRIEFIRE 3" B&B EACH	CAT 10 632.0201.001 GOLDEN AMERICAN ELDERBERRY #5 CG EACH	CAT 10 632.0201.002 HYDRANGEA ANNABELLE #2 CG EACH	CAT 10 632.0201.003 RED KNOCKOUT ROSE #2 CG EACH	CAT 10 632.0201.004 PEONY KANSAS #5 CG EACH	CAT 10 632.0201.005 NINE BARK DIABLO #2 CG EACH	CAT 10 SPV.0060.080 KARL FORESTER GRASS #1 CG EACH
SIGNATURE BED #1	0	3	0	0	0	20	22	0	0	0
SIGNATURE BED #2	3	0	0	0	6	0	0	0	0	72
SIGNATURE BED #3	0	0	1	2	0	0	0	18	8	0
PROJECT TOTAL	3	3	1	2	6	20	22	18	8	72

*Quantities Shown Elsewhere

SOUTH 60TH STREET LOCATION	CAT 10 SPV.0060.081 DAY LILIES #1 CG EACH	CAT 10 SPV.0060.082 DAY LILLIES STRAWBERRY FIELDS #1 CG EACH	CAT 10 SPV.0060.083 DAY LILLIES STELLA D' ORO #1 CG EACH	CAT 10 SPV.0060.084 SIGNATURE BED EACH	CAT 10 SPV.0060.641 CATMINT BLUE WONDER #1 CG EACH	CAT 10 SPV.0060.644 RUSSIAN SAGE #1 CG EACH	CAT 10 SPV.0060.650 DAY LILLIES HAPPY RETURNS #1 CG EACH	CAT 10 SPV.0060.651 ZAGREB COREOPSIS #1 CG EACH	CAT 10 SPV.0090.085 FIELDSTONE BOULDER WALL L.F.
SIGNATURE BED #1	0	0	0	1	20	0	0	0	40
SIGNATURE BED #2	48	0	0	1	48	0	0	18	40
SIGNATURE BED #3	0	64	2	1	0	18	1	0	40
PROJECT TOTAL	48	64	2	3	68	18	1	18	120

3

TREES

STREET	LOCATION	CAT 10 632.0101.001 CLEVELAND SELECT PEAR 3" B&B EACH*	CAT 10 632.0101.002 COMMON BALD-CYPRESS 3" B&B EACH*	CAT 10 632.0101.003 IVORY SILK LILAC 3" B&B EACH	CAT 10 632.0101.004 RED BUD 3" B&B EACH	CAT 10 632.0101.005 SUNBURST HONEY LOCUST 3" B&B EACH	CAT 10 632.0101.006 FREEMAN MAPLE 3" B&B EACH
S 60TH STREET	STA 100+83.12TO STA 103+00	---	---	---	---	---	1
S 60TH STREET	STA 103+00 TO STA 109+00	---	---	---	---	2	1
S 60TH STREET	STA 109+00 TO STA 115+00	---	---	3	1	2	---
S 60TH STREET	STA 115+00 TO STA 121+00	5	1	2	---	---	---
S 60TH STREET	STA 121+00 TO STA 125+82.01	---	2	2	---	---	---
S 60TH STREET	STA 127+06.24 TO STA 133+00	3	---	---	1	1	---
S 60TH STREET	STA 133+00 TO STA 139+00	1	---	---	1	1	---
S 60TH STREET	STA 139+00 TO STA 145+00	1	---	---	---	1	---
S 60TH STREET	STA 145+00 TO STA 151+00	---	---	2	---	---	---
S 60TH STREET	STA 151+00 TO STA 157+00	---	2	---	---	---	---
S 60TH STREET	STA 157+00 TO STA 159+31.51	---	1	1	---	---	---
	PROJECT TOTAL	10	6	10	3	7	2

*Quantities Shown Elsewhere

SURVEILLANCE AND CARE CYCLES

LOCATION	CAT 10 632.9101 PLANTING SURVEILLANCE & CARE CYCLES EACH
SOUTH 60TH STREET	10
PROJECT TOTAL	10

3

STREET	LOCATION	CAT 10 632.0101.007 SERVICE BERRY 3" B&B EACH	CAT 10 632.0101.008 KENTUCKY COFFEE 3" B&B EACH	CAT 10 632.0101.009 ENGLISH OAK 3" B&B EACH	CAT 10 632.0101.010 HORSE CHESTNUT 3" B&B EACH	CAT 10 632.0101.011 HAWTHORN THORNLESS 3" B&B EACH	CAT 10 632.0101.012 CATALPA 3" B&B EACH	CAT 10 632.0101.013 RIVER/ YELLOW BIRCH 3" B&B EACH
S 60TH STREET	STA 100+83.12TO STA 103+00	---	---	---	---	---	---	1
S 60TH STREET	STA 103+00 TO STA 109+00	---	---	---	6	1	---	---
S 60TH STREET	STA 109+00 TO STA 115+00	---	---	---	---	---	3	---
S 60TH STREET	STA 115+00 TO STA 121+00	---	1	---	---	---	---	---
S 60TH STREET	STA 121+00 TO STA 125+82.01	3	---	---	---	---	---	---
S 60TH STREET	STA 127+06.24 TO STA 133+00	---	---	---	---	1	---	---
S 60TH STREET	STA 133+00 TO STA 139+00	---	1	---	---	---	---	---
S 60TH STREET	STA 139+00 TO STA 145+00	---	---	---	1	---	---	---
S 60TH STREET	STA 145+00 TO STA 151+00	1	---	1	---	---	---	---
S 60TH STREET	STA 151+00 TO STA 157+00	---	---	---	---	---	---	---
S 60TH STREET	STA 157+00 TO STA 159+31.51	---	---	---	---	---	---	---
	PROJECT TOTAL	4	2	1	7	2	3	1

*Quantities Shown Elsewhere

TREE PLANTING CHART

COMMON NAME	SCIENTIFIC NAME	SIZE PLANTED	ROOT ZONE MODE	HEIGHT	BALL (MIN. SIZE) DIA.	BALL (MIN. SIZE) DEPTH	HOLE (MIN. SIZE) DIA.	HOLE (MIN. SIZE) DEPTH	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTECTION REQ'D	MULCH RING DIAMETER	REMARKS
CLEVELAND SELECT PEAR	PYRUS CALLERYANA "CLEVELAND SELECT"	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
IVORY SILK LILAC	SYRINGA RETICULATA	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
COMMON BALDCYPRESS	TAXODIUM DISTICHUM	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
RED BUD	CERCIS CANADENSIS	3" CAL.	B&B	8' - 10'	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY, CLUMP FORM
SUNBURST HONEYLOCUST	GLEDITSIA TRIACANTHOS 'INERMIS'	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
FREEMAN MAPLE	ACER XFREEMANII	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
SERVICEBERRY	AMELANCHIER	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
SHADEMASTER HONEYLOCUST	GLEDITSIA TRIACANTHOS 'INERMIS'	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
PRAIRIE FIRE CRAB APPLE	MALUS	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY

PLANTING CHART

COMMON NAME	SIZE PLANTED	ROOT ZONE MODE	HEIGHT	REMARKS
DAY LILIES	1 GAL.	CG	--	SPECIMEN QUALITY
RED KNOCKOUT ROSE	2 GAL.	CG	--	SPECIMEN QUALITY
NINEBARK DIABOLO	2 GAL.	CG	--	SPECIMEN QUALITY
RUSSIAN SAGE	1 GAL.	CG	--	SPECIMEN QUALITY
CATMINT BLUE WONDER	1 GAL.	CG	--	SPECIMEN QUALITY
DAY LILLIES 'STRAWBERRY FIELDS	1 GAL.	CG	--	SPECIMEN QUALITY
DAY LILLIES 'HAPPY RETURNS'	1 GAL.	CG	--	SPECIMEN QUALITY
DAY LILLIES 'STELLA D' ORO'	1 GAL.	CG	--	SPECIMEN QUALITY
ZAGREB COREOPSIS	1 GAL.	CG	--	SPECIMEN QUALITY
PEONY KANSAS	2 GAL.	CG	--	SPECIMEN QUALITY
KARL FORESTER GRASS	1 GAL.	CG	--	SPECIMEN QUALITY
HYDRANGEA 'ANNABELLE'	2 GAL.	CG	--	SPECIMEN QUALITY

3

STREET LIGHTING ITEMS

LOCATION	CAT 10 REMOVING CONCRETE BASES 204.0195 EACH *	CAT 10 CONSTRUCTION STAKING ELECTRICAL 650.8500.001 LS	CAT 10 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 INCH 652.0235 * LF	CAT 10 CONDUIT RIGID NONMETALLIC SCHEDULE 80 2.5 INCH 652.0330 LF	CAT 10 CONDUIT RIGID NONMETALLIC SCHEDULE 80 3 INCH 652.0335 * LF	CAT 10 CONDUIT SPECIAL 3 INCH 652.0615 LF	CAT 10 CONCRETE BASE TYPE 5 654.0105 EACH
S. 60TH ST.	43	1	8,150	300	1,100	650	41
PROJECT TOTAL	43	1	8,150	300	1,100	650	41

LOCATION	CAT 10 TRANSFORMER BASE BREAKAWAY 11.5 INCH BOLT CIRCLE 657.0255 EACH	CAT 10 CABLE TYPE UF 2#12 AWG GROUNDED 655.0305 LF	CAT 10 LUMINAIRE ARM ALUMINUM SINGLE BRACKET 8-FT 657.0615 EACH	CAT 10 FIBERGLASS/POLYMER CONCRETE PULL BOX 13" x 24" x 24" SPV.0060.302 EACH	CAT 10 FIBERGLASS/POLYMER CONCRETE PULL BOX 17" x 30" x 24" SPV.0060.303 EACH	CAT 10 POLE TYPE 14 ALUMINUM 25-FT SPV.0060.322 EACH	CAT 10 LUMINAIRE ARMS SINGLE MEMBER 6-FT SPV.0060.345 EACH
S. 60TH ST.	41	3,100	82	46	2	41	2
PROJECT TOTAL	41	3,100	82	46	2	41	2

LOCATION	CAT 10 LUMINAIRE ARMS SINGLE MEMBER 8-FT SPV.0060.346 EACH	CAT 10 LUMINAIRE UTILITY LED 2 SPV.0060.375 EACH	CAT 10 CABLE TYPE 3#6/1#8 LTP SPV.0090.306 LF	CAT 10 CABLE TYPE 3#4/1#8 LTP SPV.0090.307 LF	CAT 10 CABLE TYPE 3#2/1#8 LTP SPV.0090.308 LF	CAT 10 CABLE TYPE #2 AL 15KV CONCENTRIC SPV.0090.321 LF
S. 60TH ST.	4	88	850	3,600	3,360	350
PROJECT TOTAL	4	88	850	3,600	3,360	350

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNALS W. CLEVELAND AV. & S. 60TH ST.

QUANT. EACH	DESCRIPTION
1	SPV.0060.200 INSTALL CITY PRECAST CONTROLLER BASE
1	SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED [CONTRACTOR SUPPLIED]
1	SPV.0060.212 FIBER OPTIC PATCH PANEL
1	SPV.0060.213 ETHERNET SWITCH
4	SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR
1	SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL
4	SPV.0060.223 EVP CONFIRMATION LIGHT ASSEMBLY
2	SPV.0060.224 VEHICULAR VIDEO DETECTION SYSTEM
4	SPV.00600.246 POLES, TYPE 10 [CONTRACTOR SUPPLIED]
4	SPV.0060.258 MONOTUBE ARM 20' [CONTRACTOR SUPPLIED]
8	SPV.0060.267 PEDESTRIAN COUNTDOWN SIGNAL FACE 12-INCH
6	654.0101 CONCRETE BASES TYPE 1
4	654.0110 CONCRETE BASES TYPE 10
6	657.0100 PEDESTAL BASES
6	657.0420 TRAFFIC SIGNAL STAND. ALUMINUM 13'
16	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH
8	658.0412 PEDESTRIAN SIGNAL FACE, 12-INCH
4	658.0500 PEDESTRIAN PUSH BUTTONS
1	658.5069.001 TRAFFIC SIGNAL MOUNTING HARDWARE (S.60TH ST. & W. CLEVELAND AV.)

657.0100 PEDESTAL BASES
657.0420 TRAFFIC SIGNAL STAND. ALUMINUM 13'
658.0500 PEDESTRIAN PUSH BUTTONS
SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR
SPV.0060.223 EVP CONFIMRATION LIGHT ASSEMBLY
SPV.0060.224 VEHICLULAR VIDEO DETECTION SYSTEM
SPV.0060.246 POLES TYPE 10 [COTRACTOR SUPPLIED]
SPV.0060.258 MONOTUBE ARM 20' [CONTRACTOR SUPPIED]

SIG. BASE NO.	PED. BASE EACH	13 FOOT STAND. EACH	PUSH BUTTONS EACH	EVP 1CHAN. 1DIRECT. DET. EACH	CONF. LIGHT EACH	VIDEO DETECT. EACH	POLES TYPE 10 EACH	20' ARM EACH
1	1	1						
2				1	1	1	1	1
3	1	1	1					
4				1	1		1	1
5	1	1	1					
6	1	1						
7				1	1	1	1	1
8	1	1	1					
9				1	1		1	1
10	1	1	1					
TOTAL	6	6	4	4	4	2	4	4

658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH
658.0412 PEDESTRIAN SIGNAL FACE, 12-INCH
SPV.0060.267 PEDESTRIAN COUNTDOWN SIGNAL FACE 12-INCH

SIG HEAD NO.	SIG BASE NO.	SIG. FACE 3S 12-INCH	PED. FACE EACH	COUNT-DOWN FACE EACH
1	SB3	1		
2	SB9	1		
3	SB10	1		
4	SB8	1		
5	SB9	1		
6	SB8	1		
7	SB4	1		
8	SB5	1		
9	SB3	1		
10	SB4	1		
11	SB6	1		
12	SB1	1		
13	SB2	1		
14	SB1	1		
15	SB6	1		
16	SB7	1		
17	SB5		1	1
18	SB8		1	1
19	SB7		1	1
20	SB1		1	1
21	SB10		1	1
22	SB3		1	1
23	SB2		1	1
24	SB6		1	1
TOTAL		16	8	8

FILE NAME : W:\bte\signals\PAVING AND DESIGN\State Projects-LFA\Preliminary Engineering\2415-00-71 60th Morgan to KK Pkwy\2415-00-71.dgn PLOT DATE : 02-JUL-2018 07:58 PLOT BY : kefeif PLOT NAME : PLOT SCALE : 40.000373:1.000000
WISDOT/CADDS SHEET 42

652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH*
652.0335 CONDUIT RIGID NONMETALLIC SCHEDULE 80 3-INCH*

LOC.	TO	LOC.	NONMET. SCH. 40 3-INCH	NONMET. SCH. 80 3-INCH
CB1	TO	PB1	45	
PB1	TO	SB1	15	
PB1	TO	PB2		95
PB2	TO	SB2	15	
PB2	TO	PB3	130	
PB3	TO	SB3	20	
PB3	TO	PB4		90
PB4	TO	SB4	5	
PB4	TO	PB5		75
PB5	TO	SB5	20	
PB5	TO	PB6	115	
PB6	TO	SB6	10	
PB6	TO	PB7		95
PB7	TO	SB7	15	
PB7	TO	PB8	105	
PB8	TO	SB8	10	
PB8	TO	PB9		90
PB9	TO	SB9	5	
PB9	TO	PB10		70
PB10	TO	SB10	10	
PB10	TO	PB1	110	
		TOTAL	630	515

SUMMARY OF MAJOR ITEMS FOR TRAFFIC SIGNAL CABLING

ITEM	DESCRIPITON	L.F
655.0260	CABLE TRAFFIC SIGNAL 12-14 AWG	1165
655.0270	CABLE TRAFFIC SIGNAL 15-14 AWG	790
655.0515	ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	800
655.0900	EVP DETECTOR CABLE	820

SPV.0060.303 PULLBOXES*
17-INCHX30-INCHX24-INCH

PULL BOX NO.	LOCATION	17"X30"X24" EACH
1	153+14', 74' RT	1
2	152+66', 74' RT	1
3	152+27', 45' RT	1
4	152+27', 5' LT	1
5	152+27', 40' LT	1
6	152+64', 68' LT	1
7	153+11', 68' LT	1
8	153+47', 40' LT	1
9	153+47', 6' RT	1
10	153+47', 87' RT	1
	TOTAL	10

204.0195 REMOVING CONCRETE BASES*

SIGNAL BASE NO.	LOCATION	EACH
1	153+13', 56' RT	1
3	152+42', 46' RT	1
4	152+33', 5' LT	1
5	152+42', 46' LT	1
6	152+62', 57' LT	1
7	153+11', 55' LT	1
8	153+35', 48' LT	1
9	153+42', 6' RT	1
10	153+33',45' RT	1
	TOTAL	9

654.0101 CONCRETE BASES TYPE 1*
654.0110 CONCRETE BASES TYPE 10*

SIGNAL BASE NO.	LOCATION	TYPE1 EACH	TYPE 10 EACH
1	153+17', 58' RT	1	
2	152+62', 60' RT		1
3	152+43', 48' RT	1	
4	152+31', 5' LT		1
5	152+41', 48' LT	1	
6	152+61', 59' LT	1	
7	153+13', 56' LT		1
8	153+35', 48' LT	1	
9	153+42', 6' RT		1
10	153+36', 48' RT	1	
	TOTAL	6	4

SPV.0060.200 INSTALL CITY PRECAST CONTROLLER BASE 36"X21"X20"
SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED
SPV.0060.212 FIBER OPTIC PATCH PANEL
SPV.0060.213 ETHERNET SWITCH
SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL

LOCATION	BASE EACH	CABINET EACH	PANEL EACH	SWITCH EACH	EVP CARD EACH
153+27', 84' RT	1	1	1	1	1
TOTAL	1	1	1	1	1

* FINAL LOCATION TO BE DETERMINED BY ENGINEER IN FIELD

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVAL NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
1–1	2	1
1–2	1	1
1–3	1	1
1–4	1	1
2–1	3	3
2–2	1	1
2–3	1	1
3–1	2	2
3–2	1	–
3–3	1	1
4–1	1	1
4–2	2	–
4–3	2	1
4–4	1	1
5–1	1	1
5–2	1	1
5–3	1	1
5–4	1	1
5–5	1	1
5–6	1	1
5–7	1	1
5–8	1	–
5–9	2	–
5–10	2	1
6–1	1	1
6–2	1	1
6–3	2	–
6–4	1	1
6–5	2	1
6–6	2	–
6–7	1	–
6–8	1	1
6–9	1	1

REMOVAL NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
7–1	2	1
7–2	1	1
7–3	2	–
7–4	2	–
7–5	2	1
8–1	2	1
8–2	2	–
9–1	2	2
9–2	2	1
9–3	2	–
9–4	1	1
9–5	2	1
9–6	2	–
9–7	1	1
10–1	2	1
10–2	2	–
10–3	1	1
11–1	1	1
11–2	1	1
11–3	1	1
11–4	1	1
12–1	1	–
12–2	2	–
12–3	1	–
12–4	2	–
12–5	1	1
12–6	1	–
12–7	1	1
12–8	2	1
12–9	1	–
12–10	2	–
12–11	1	–
12–12	1	–
12–13	1	–
13–1	2	–
13–2	1	1
13–3	1	1
TOTAL	99	50

SIGN INSTALLATION

SIGN NO.	SIGN CODE	MESSAGE	SIZE			FOR INFORMATION ONLY					SPV.0060.070 INSTALL CITY FURNISHED SIGN EACH	REMARKS
			INCHES	X	INCHES	CITY FURNISHED POSTS 7'-0" EACH	CITY FURNISHED POSTS 9'-6" EACH	CITY FURNISHED POSTS 11'-0" EACH	CITY FURNISHED POSTS 12'-10" EACH	CITY FURNISHED SIGNS TYPE II SF		
1-1	R7-7LMOD		12	X	18	-	1	-	-	1.5	1	
1-2	R2-1	30	24	X	30	-	-	-	-	5.0	1	ATTACH TO LIGHT POLE
1-3	R2-1	30	24	X	30	-	1	-	-	5.0	1	
2-1	W5-52R		12	X	36	1	-	-	-	3.0	1	
2-2	R1-1		30	X	30	-	-	1	-	6.3	1	
2-3	R4-7		24	X	30	-	1	-	-	5.0	1	
2-4	R7-1LMOD		12	X	18	-	1	-	-	1.5	1	
2-5	R7-1DMOD		12	X	18	-	1	-	-	1.5	1	
2-6	R6-1R		36	X	12	-	-	1	-	3.0	1	
2-7	R5-1A		36	X	24	-	-	-	-	6.0	1	ON POST WITH SIGN 2-6
2-8	W5-52R		12	X	36	1	-	-	-	3.0	1	
2-9	R1-1		30	X	30	-	-	1	-	6.3	1	
2-10	R4-7		24	X	30	-	1	-	-	5.0	1	
2-11	R7-1LMOD		12	X	18	-	1	-	-	1.5	1	
3-1	W5-52R		12	X	36	1	-	-	-	3.0	1	
3-2	R1-1		30	X	30	-	-	1	-	6.3	1	
3-3	R7-7DMOD		12	X	18	-	1	-	-	1.5	1	
3-4	R6-1L		36	X	12	-	-	1	-	3.0	1	
3-5	R1-1		30	X	30	-	-	-	-	6.3	1	ON POST WITH 3-4
3-6	R7-1DMOD		12	X	18	-	1	-	-	1.5	1	
3-7	W5-52L		12	X	36	1	-	-	-	3.0	1	
3-8	R1-1		30	X	30	-	-	1	-	6.3	1	
3-9	R4-7		24	X	30	-	1	-	-	5.0	1	
3-10	R4-7		24	X	30	-	1	-	-	5.0	1	
3-11	R7-7DMOD		12	X	18	-	1	-	-	1.5	1	
3-12	R6-1L		36	X	12	-	-	1	-	3.0	1	
3-13	R1-1		30	X	30	-	-	-	-	6.3	1	ON POST WITH 3-12
3-14	R7-1DMOD		12	X	18	-	1	-	-	1.5	1	
3-15	R7-1DMOD		12	X	18	-	1	-	-	1.5	1	
4-1	R7-1LMOD		12	X	18	-	1	-	-	1.5	1	
4-2	S1-1		30	X	30	-	-	-	1	6.3	1	
4-3	WF16-9PMOD		24	X	12	-	-	-	-	2.0	1	ON POST WITH SIGN 4-2
4-4	R2-6P		24	X	18	-	-	-	-	3.0	1	ON POST WITH SIGN 4-2
4-5	S1-1		30	X	30	-	-	-	1	6.3	1	
4-6	WF16-9PMOD		24	X	12	-	-	-	-	2.0	1	ON POST WITH SIGN 4-5
4-7	R2-6P		24	X	18	-	-	-	-	3.0	1	ON POST WITH SIGN 4-5
4-8	R6-1L		36	X	12	-	-	1	-	3.0	1	
4-9	R1-1		30	X	30	-	-	-	-	6.3	1	ON POST WITH SIGN 4-8
4-10	R7-1DMOD		12	X	18	-	1	-	-	1.5	1	
4-11	R6-1R		36	X	12	-	-	1	-	3.0	1	
4-12	R5-1A		36	X	24	-	-	-	-	6.0	1	ON POST WITH SIGN 4-11

SIGN INSTALLATION

SIGN NO.	SIGN CODE	MESSAGE	SIZE			CITY FURNISHED POSTS 84″ EACH	CITY FURNISHED POSTS 9′ – 6″ EACH	CITY FURNISHED POSTS 11′ – 0″ EACH	CITY FURNISHED POSTS 12′ –10″ EACH	CITY FURNISHED SIGNS TYPE II SF	SPV. 0060. 070 INSTALL CITY FURNISHED SIGN EACH	REMARKS
			INCHES	X	INCHES							
5–1	R5–1A		36	X	24	–	–	–	1	6.0	1	
5–2	R6–1R		36	X	12	–	–	–	–	3.0	1	ON POST WITH 5–1
5–3	R2–1	30	24	X	30	–	–	–	–	5.0	1	ON POST WITH 5–1
5–4	S5–2		24	X	30	–	–	–	–	5.0	1	ON POST WITH 5–1
5–5	W11–2		30	X	30	–	–	1	–	6.3	1	
5–6	WF16–7L		24	X	12	–	–	–	–	2.0	1	ON POST WITH 5–5
5–7	W11–2		30	X	30	–	–	1	–	6.3	1	
5–8	WF16–7R		24	X	12	–	–	–	–	2.0	1	ON POST WITH 5–7
5–9	R7–1LMOD		12	X	18	–	1	–	–	1.5	1	
5–10	R4–7		24	X	30	–	1	–	–	5.0	1	
5–11	R1–1		30	X	30	–	–	1	–	6.3	1	6″ SOCKET IN CONCRETE
5–12	W14–1		30	X	30	–	1	–	–	6.3	1	
5–13	S4–51	20	24	X	48	–	–	–	1	8.0	1	
5–14	S4–51	20	24	X	48	–	–	–	1	8.0	1	
5–15	R7–1RMOD		12	X	18	–	1	–	–	1.5	1	
5–16	W11–2		30	X	30	–	–	1	–	6.3	1	
5–17	WF16–7R		24	X	12	–	–	–	–	2.0	1	ON POST WITH 5–16
5–18	W11–2		30	X	30	–	–	1	–	6.3	1	
5–19	WF16–7L		24	X	12	–	–	–	–	2.0	1	ON POST WITH 5–18
5–20	R2–1	30	24	X	30	–	–	–	–	5.0	1	ATTACH TO LIGHT POLE
5–21	S5–2		24	X	30	–	–	–	–	5.0	1	ATTACH TO LIGHT POLE
6–1	R6–2R		24	X	30	–	1	–	–	5.0	1	
6–2	R3–7R	EXCEPT BUSES	30	X	30	–	–	1	–	6.3	1	
6–3	R7–7LMOD		12	X	18	–	–	–	–	1.5	1	ON POST WITH SIGN 6–2
6–4	R3–7R	EXCEPT BUSES	30	X	30	–	–	1	–	6.3	1	
6–5	R7–7LMOD		12	X	18	–	–	–	–	1.5	1	ON POST WITH SIGN 6–4
7–1	S4–51	20	24	X	48	–	–	–	1	8.0	1	
7–2	S4–51	20	24	X	48	–	–	–	1	8.0	1	
7–3	R3–50R		30	X	36	–	1	–	–	7.5	1	
7–4	W12–1D		24	X	24	–	–	–	–	4.0	1	ON POST WITH 7–3
7–5	S1–1MOD		30	X	30	–	–	–	1	6.3	1	
7–6	WF16–9PMOD		24	X	12	–	–	–	–	2.0	1	ON POST WITH 7–5
7–7	R2–6P		24	X	18	–	–	–	–	3.0	1	ON POST WITH 7–5
7–8	S1–1MOD		30	X	30	–	–	–	–	6.3	1	ATTACH TO LIGHT POLE
7–9	WF16–9PMOD		24	X	12	–	–	–	–	2.0	1	ATTACH TO LIGHT POLE
7–10	R2–6P		24	X	18	–	–	–	–	3.0	1	ATTACH TO LIGHT POLE
7–11	R2–1	30	24	X	30	–	–	–	–	5.0	1	ATTACH TO LIGHT POLE
7–12	S5–2		24	X	30	–	–	–	–	5.0	1	ATTACH TO LIGHT POLE
7–13	R2–1	30	24	X	30	–	–	1	–	5.0	1	
7–14	S5–2		24	X	30	–	–	–	–	5.0	1	ON POST WITH 7–13
7–15	R5–1		30	X	30	–	–	1	–	6.3	1	
7–16	R1–1		30	X	30	–	–	1	–	6.3	1	
7–17	R9–3A		24	X	24	1	–	–	–	4.0	1	
7–18	R9–3B		18	X	12	–	–	–	–	1.5	1	ON POST WITH 7–17
7–19	R5–1		30	X	30	–	–	1	–	6.3	1	
7–20	R3–2		24	X	24	–	–	–	–	4.0	1	ON POST WITH 7–19

SIGN INSTALLATION

SIGN NO.	SIGN CODE	MESSAGE	SIZE			CITY FURNISHED POSTS 84″ EACH	CITY FURNISHED POSTS 9′ – 6″ EACH	CITY FURNISHED POSTS 11′ – 0″ EACH	CITY FURNISHED POSTS 12′ –10″ EACH	CITY FURNISHED SIGNS TYPE II SF	SPV.0060.070 INSTALL CITY FURNISHED SIGN EACH	REMARKS
			INCHES	X	INCHES							
8–1	R2–1	30	24	X	30	–	–	1	–	5.0	1	
8–2	S5–2		24	X	30	–	–	–	–	5.0	1	ON POST WITH SIGN 8–1
8–3	R2–1	30	24	X	30	–	–	1	–	5.0	1	
8–4	S5–2		24	X	30	–	–	–	–	5.0	1	ON POST WITH SIGN 8–3
8–5	S4–51	20	24	X	48	–	–	–	1	8.0	1	
8–6	S4–51	20	24	X	48	–	–	–	1	8.0	1	
8–7	S1–1MOD		30	X	30	–	–	–	1	6.3	1	
8–8	WF16–9P		24	X	12	–	–	–	–	2.0	1	ON POST WITH SIGN 8–7
8–9	R2–6P		24	X	18	–	–	–	–	3.0	1	ON POST WITH SIGN 8–7
8–10	S1–1MOD		30	X	30	–	–	–	1	6.3	1	
8–11	WF16–9P		24	X	12	–	–	–	–	2.0	1	ON POST WITH SIGN 8–10
8–12	R2–6P		24	X	18	–	–	–	–	3.0	1	ON POST WITH SIGN 8–10
9–1	S1–1MOD		30	X	30	–	–	1	–	6.3	1	
9–2	WF16–7R		24	X	12	–	–	–	–	2.0	1	ON POST WITH 9–1
9–3	S1–1MOD		30	X	30	–	–	1	–	6.3	1	
9–4	WF16–7L		24	X	12	–	–	–	–	2.0	1	ON POST WITH 9–3
9–5	W5–52R		12	X	36	–	–	–	–	3.0	1	ON POST WITH 9–3
9–6	R1–1		30	X	30	–	–	1	–	6.3	1	
9–7	R7–7LMOD		12	X	18	–	1	–	–	1.5	1	
9–8	S4–51	20	24	X	48	–	–	–	1	8.0	1	
9–9	S4–51	20	24	X	48	–	–	–	1	8.0	1	
9–10	R4–7		24	X	30	–	1	–	–	5.0	1	
9–11	W5–52R		12	X	36	1	–	–	–	3.0	1	
9–12	R1–1		30	X	30	–	–	1	–	6.3	1	
9–13	S1–1MOD		30	X	30	–	–	1	–	6.3	1	
9–14	WF16–7L		24	X	12	–	–	–	–	2.0	1	ON POST WITH 9–15
9–15	S1–1MOD		30	X	30	–	–	–	–	6.3	1	ON POST WITH 9–1
9–16	WF16–7R		24	X	12	–	–	–	–	2.0	1	ON POST WITH 9–1
9–17	R7–7LMOD		12	X	18	–	1	–	–	1.5	1	

SIGN INSTALLATION

SIGN NO.	SIGN CODE	MESSAGE	SIZE			CITY FURNISHED POSTS 84″ EACH	CITY FURNISHED POSTS 9′ – 6″ EACH	CITY FURNISHED POSTS 11′ – 0″ EACH	CITY FURNISHED POSTS 12′ –10″ EACH	CITY FURNISHED SIGNS TYPE II SF	SPV.0060.070 INSTALL CITY FURNISHED SIGN EACH	REMARKS
			INCHES	X	INCHES							
10–1	S1–1MOD		30	X	30	–	–	–	1	6.3	1	
10–2	WF16–9P		24	X	12	–	–	–	–	2.0	1	ON POST WITH SIGN 10–1
10–3	R2–6P		24	X	18	–	–	–	–	3.0	1	ON POST WITH SIGN 10–1
10–4	S1–1MOD		30	X	30	–	–	–	1	6.3	1	
10–5	WF16–9P		24	X	12	–	–	–	–	2.0	1	ON POST WITH SIGN 10–4
10–6	R2–6P		24	X	18	–	–	–	–	3.0	1	ON POST WITH SIGN 10–4
10–7	W5–52R		12	X	36	1	–	–	–	3.0	1	
10–8	R1–1		30	X	30	–	–	1	–	6.3	1	
10–9	R9–3A		24	X	24	1	–	–	–	4.0	1	
10–10	R9–3B		18	X	12	–	–	–	–	1.5	1	ON POST WITH SIGN 10–7
10–11	R7–4R		18	X	24	–	1	–	–	3.0	1	
10–12	R4–7		24	X	30	–	1	–	–	5.0	1	
10–13	W5–52R		12	X	36	1	–	–	–	3.0	1	
10–14	R7–4L		18	X	24	–	1	–	–	3.0	1	
10–15	R2–1	30	24	X	30	–	–	1	–	5.0	1	
10–16	S5–2		24	X	30	–	–	–	–	5.0	1	ON POST WITH SIGN 10–13
10–17	R2–1	30	24	X	30	–	–	1	–	5.0	1	
10–18	S5–2		24	X	30	–	–	–	–	5.0	1	ON POST WITH SIGN 10–15
11–1	R7–7LMOD		12	X	18	–	1	–	–	1.5	1	
11–2	R2–1	30	24	X	30	–	1	–	–	5.0	1	
11–3	R2–1	30	24	X	30	–	–	–	–	5.0	1	ATTACH TO LIGHT POLE
11–4	R7–7LMOD		12	X	18	–	1	–	–	1.5	1	
11–5	R7–52DMOD	BETWEEN DRIVEWAYS	12	X	18	–	1	–	–	1.5	1	
12–1	R10–4B	LEFT ARROW	9	X	12	–	–	–	–	0.8	1	ATTACH TO LIGHT POLE/SIGNAL
12–2	R5–2		24	X	24	–	–	–	–	4.0	1	ATTACH TO LIGHT POLE
12–3	R5–2A		24	X	12	–	–	–	–	2.0	1	ATTACH TO LIGHT POLE
12–4	R10–4B	RIGHT ARROW	9	X	12	–	–	–	–	0.8	1	ATTACH TO LIGHT POLE/SIGNAL
12–5	R4–7		24	X	30	–	–	–	–	5.0	1	ATTACH TO LIGHT POLE
12–6	R7–7L		12	X	18	–	1	–	–	1.5	1	
12–7	R2–1	30	24	X	30	–	–	–	–	5.0	1	ATTACH TO LIGHT POLE
12–8	R7–6R	ANY TIME	12	X	18	–	1	–	–	1.5	1	
12–9	R2–1	30	24	X	30	–	–	1	–	5.0	1	
12–10	R7–6L	ANY TIME	12	X	18	–	–	–	–	1.5	1	ON POST WITH SIGN 12–9
12–11	R10–4B	LEFT ARROW	9	X	12	–	–	–	–	0.8	1	ATTACH TO LIGHT POLE/SIGNAL
12–12	R5–2		24	X	24	–	–	–	–	4.0	1	ATTACH TO LIGHT POLE
12–13	R5–2A		24	X	12	–	–	–	–	2.0	1	ATTACH TO LIGHT POLE
12–14	R10–4B	RIGHT ARROW	9	X	12	–	–	–	–	0.8	1	ATTACH TO LIGHT POLE/SIGNAL
12–15	R4–7		24	X	30	–	–	–	–	5.0	1	ATTACH TO LIGHT POLE
13–1	R2–1	30	24	X	30	–	1	–	–	5.0	1	
13–2	R2–1	30	24	X	30	–	1	–	–	5.0	1	
13–3	R1–1		30	X	30	–	–	1	–	6.3	1	
13–4	R4–7		24	X	30	–	1	–	–	5.0	1	
TOTAL						9	37	32	16	650.4	158	

RECEIVED
MILWAUKEE COUNTY CLERK
2018 JUN 25 A 11:00

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
2415-00-01	4.1	1

PLAT OF RIGHT OF WAY REQUIRED FOR

W MORGAN AVE TO KK RVR PKWY
LOCAL STREET

S 60TH ST — MILWAUKEE CO

4

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), SOUTH ZONE, NAD 27. VALUES ARE GROUND COORDINATES, GROUND BEARINGS, AND GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MILWAUKEE.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG SOUTH 60TH STREET HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT FOREST DOWNS NO.1.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: FOREST DOWNS ADDITIONS NO. 1 & NO. 2 & HAWLEY TERRACE SUBDIVISION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	PLE ACRES
1	MILWAUKEE COUNTY	PLE	---	---	---	0.317

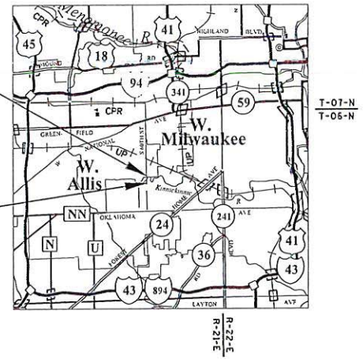
EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
501	370166.704'	2538489.358'	1.25" O.D. IRON PIPE
502	370093.132'	2538489.687'	1.25" O.D. IRON PIPE
505	369854.631'	2538787.116'	1.25" O.D. IRON PIPE
508	369861.393'	2538826.369'	1.25" O.D. IRON PIPE
509	369823.246'	2538601.747'	1.25" O.D. IRON PIPE
512	370094.879'	2538599.668'	0.25" IRON ROD

COURSE TABLE		
COURSE	BEARING	DISTANCE
100-PLE120	N89° 34' 31"E	55.00'
PLE120-PLE121	N89° 34' 31"E	120.00'
PLE121-PLE122	S00° 25' 29"E	115.00'
PLE122-PLE123	S89° 34' 31"W	120.00'
PLE132-PLE120	N00° 25' 29"W	115.00'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
100	158+62.00	0.000'
PLE120	158+62.00	55.00'
PLE121	158+62.00	175.00'
PLE122	157+47.00	175.00'
PLE123	157+47.00	55.00'

END RELOCATION ORDER
STA 159+00
610.84' NORTH AND 4.53' WEST OF THE E 1/4, SEC.10, T6N, R21E

BEGIN RELOCATION ORDER
STA 157+00
410.84' NORTH AND 3.05' WEST OF THE E 1/4, SEC.10, T6N, R21E



CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

- W — WATER
- G — GAS
- T — TELEPHONE
- OH — OVERHEAD TRANSMISSION LINES
- E — ELECTRIC
- TV — CABLE TELEVISION
- FO — FIBER OPTIC
- SAN — SANITARY SEWER
- SS — STORM SEWER

GN

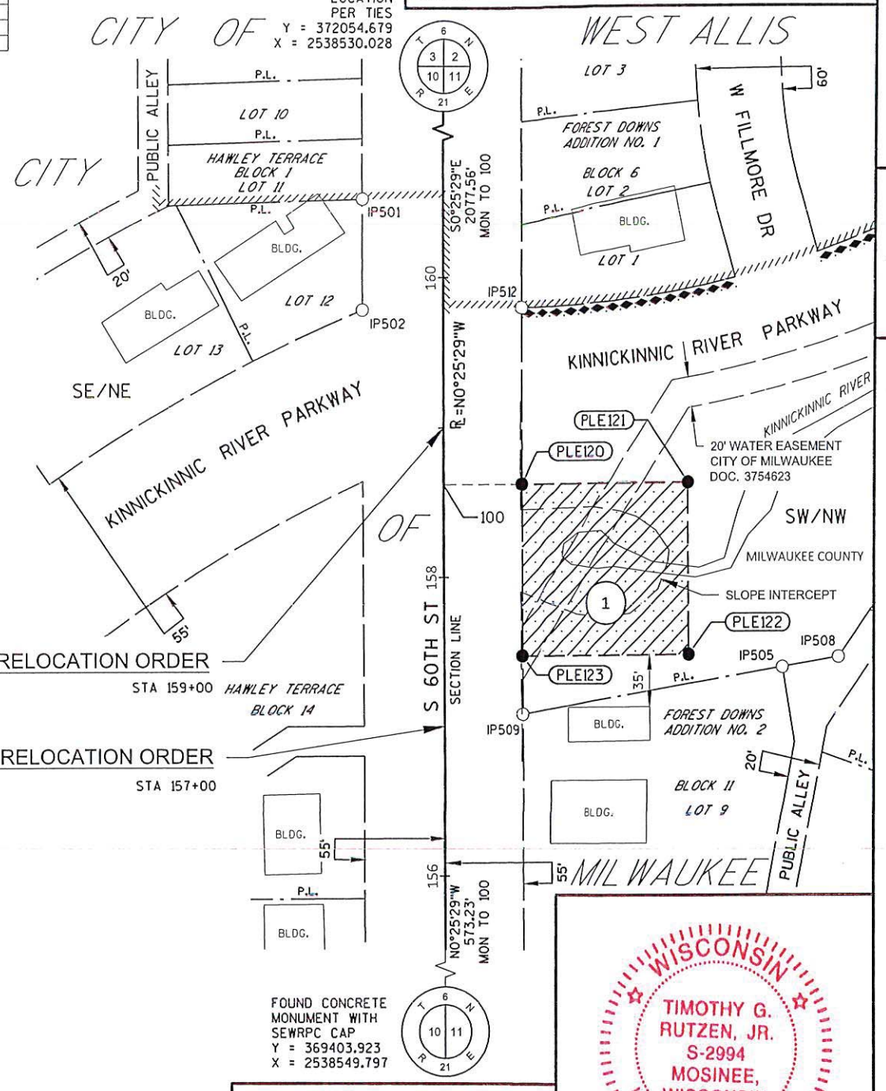
CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) — IP
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN — OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25) — UTILITY NUMBER (40)
PARALLEL OFFSETS



LAYOUT
SCALE 0 50'

TOTAL NET LENGTH OF PROJECT CENTERLINE = 1.097 MILES

emcs inc

APPROVED FOR THE CITY OF MILWAUKEE
DATE: 6/15/18 (Signature)

WISCONSIN
TIMOTHY G. RUTZEN, JR.
S-2994
MOSINEE, WISCONSIN
LAND SURVEYOR

PRINT NAME: TIMOTHY RUTZEN JR. (Signature)
REGISTRATION NUMBER: S-2994 DATE: 5-1-2018

REVISION DATE	DATE	SCALE, FEET	HWY:	STATE R/W PROJECT NUMBER	PLAT SHEET
	5-1-2018	0 50' 100'	S 60TH STREET	2415-00-01	4.1 (TOTAL SHEETS 1)
	GRID FACTOR 0.99992401		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2415-00-71	PS&E SHEET E

FILE NAME : 040101_RP.DWG
LAYOUT NAME - RW 1 IN 100 FT

PLOT DATE : 4/20/2018 11:13 AM PLOT BY : TIM RUTZEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

LEGEND

X TREE REMOVAL

XX SIGNED CONSTRUCTION PERMIT

35"MO"

36"MO"

37"MO"

38"MO"

MORGAN AVENUE

N

95

96

3471

3463

3457

3449

WE ENERGIES GAS

ATC

CAUTION

EXISTING R/W

CITY OF MILWAUKEE WATER

CITY OF MILWAUKEE SANITARY

CITY OF MILWAUKEE WATER

R/L S. 60TH ST

CITY OF MILWAUKEE COMM.

CITY OF MILWAUKEE LIGHTING

101

102

WE ENERGIES ELECTRIC

CITY OF MILWAUKEE WATER

MMSD

ATT TELEPHONE

S. 60TH STREET

EXISTING R/W

BEGIN PROJECT

I.D. 2415-00-71

STA 100+83.12

173

3470

WE ENERGIES GAS

CITY OF MILWAUKEE SANITARY

3458

CAUTION

138

3454

3444

BM 602

SIGNATURE BED

STA 102+25 TO STA 103+10

SEE CONSTRUCTION DETAIL

MATCH LINE STA. 103+00

BENCHMARK

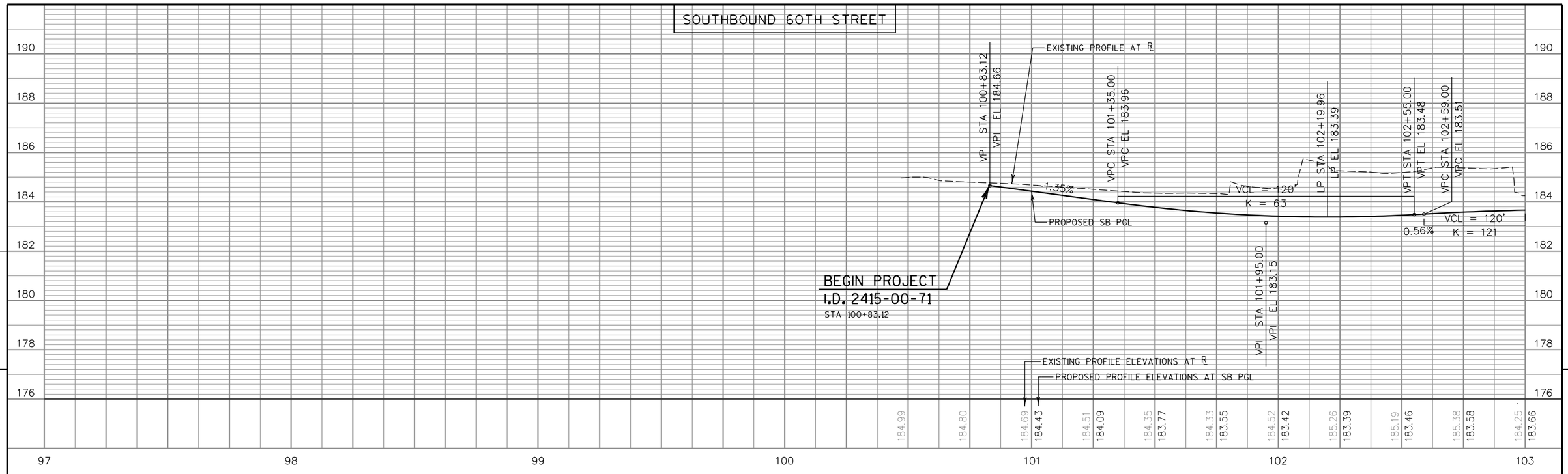
NO.	LOCATION	DESCRIPTION	ELEVATION
BM602	STA 100+37.15 , 83.64' RT	CONCRETE MONUMENT WITH BRASS CAP BM CITY OF MILWAUKEE 1958-13	183.45

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE: S. 60TH STREET	SHEET 262	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\050101_pp.dgn PLOT DATE : 7/30/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 44

SOUTHBOUND 60TH STREET



NORTHBOUND 60TH STREET



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN & PROFILE: S. 60TH STREET	SHEET 263	E

LEGEND

X TREE REMOVAL

XX SIGNED CONSTRUCTION PERMIT

N

MATCH LINE STA. 103+00

WE ENERGIES GAS

ATC

CAUTION

EXISTING R/W

CITY OF MILWAUKEE WATER

CITY OF MILWAUKEE SANITARY

MMSD

CITY OF MILWAUKEE COMM.

CITY OF MILWAUKEE LIGHTING

ATT TELEPHONE

S. 60TH STREET

HOLT AVENUE

MATCH EXISTING (SEE CONSTRUCTION DETAIL "ASPHALTIC SURFACE BUTT JOINTS")

"H" 9

"H" 11

R/L S. 60TH ST

MATCH LINE STA. 109+00

3443 3435 3423 3417 6005 3375 3369 3363 3355

3436 3424 3416 3408 5915 3378 3368 3362 3356

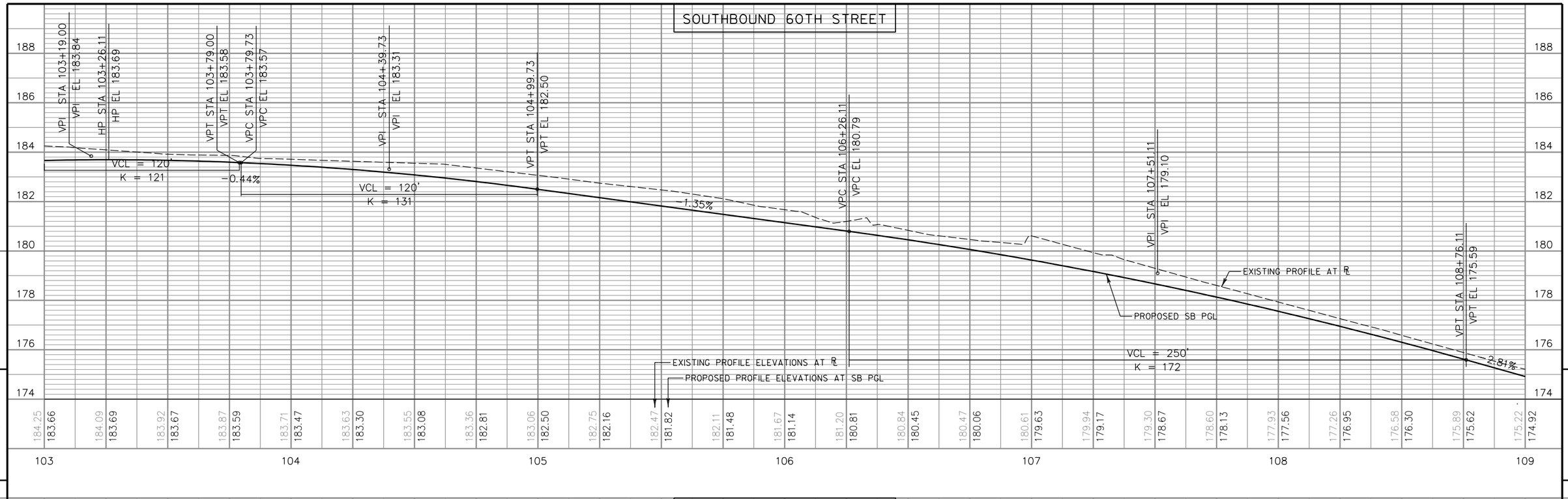
104 105 106 107 108

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE: S. 60TH STREET	SHEET 264	E

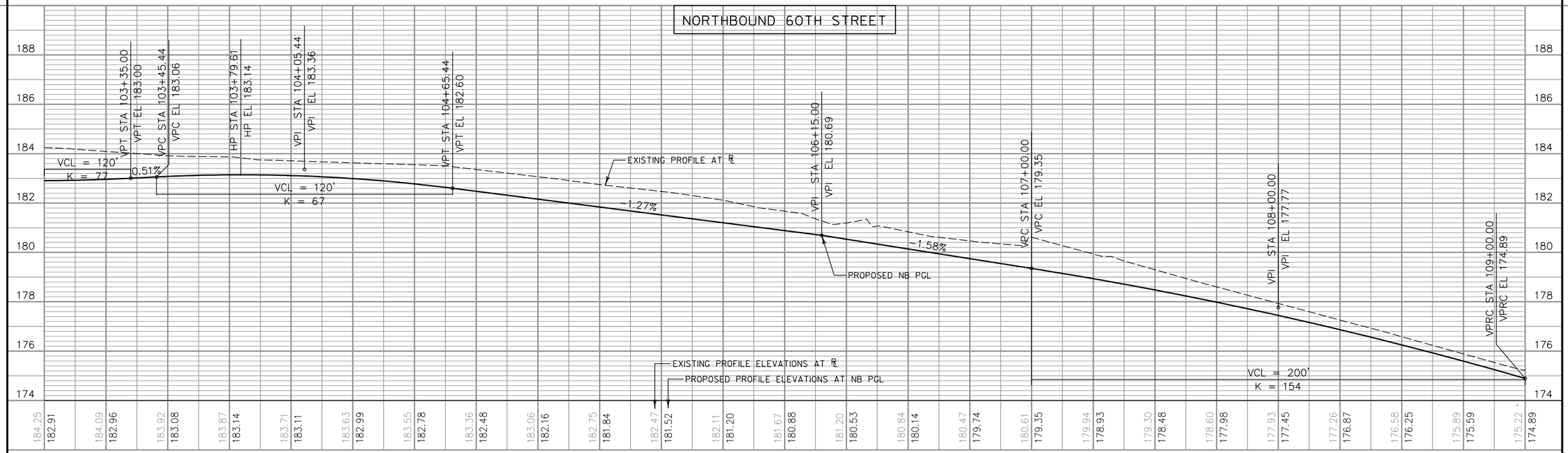
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WISDOT/CADDS SHEET 44

SOUTHBOUND 60TH STREET



NORTHBOUND 60TH STREET



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN & PROFILE: S. 60TH STREET	SHEET 265	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\050102A_pp.dgn PLOT DATE : 7/30/2018 PLOT BY : dks PLOT NAME : $FILE$ PLOT SCALE : 1:40

WISDOT/CADDS SHEET 46A

LEGEND

X TREE REMOVAL

XX SIGNED CONSTRUCTION PERMIT

MATCH LINE STA. 109+00

MATCH LINE STA. 115+00

5

5

CITY OF MILWAUKEE SANITARY

WE ENERGIES GAS

ATC

CITY OF MILWAUKEE WATER

CITY OF MILWAUKEE LIGHTING

R/L S. 60TH ST

CITY OF MILWAUKEE WATER

CITY OF MILWAUKEE COMM.

ATT TELEPHONE

CITY OF MILWAUKEE WATER

MMSD

S. 60TH STREET

EXISTING R/W

MATCH EXISTING (SEE CONSTRUCTION DETAIL "ASPHALTIC SURFACE BUTT JOINTS")

153

119

BUS STOP

CAUTION

EXISTING R/W

CITY OF MILWAUKEE SANITARY

BUS STOP

EXISTING R/W

WE ENERGIES GAS

CITY OF MILWAUKEE SANITARY

EXISTING R/W

1"OH"

W. OHIO AVENUE

WE ENERGIES GAS

123

83

MATCH EXISTING (SEE CONSTRUCTION DETAIL "ASPHALTIC SURFACE BUTT JOINTS")

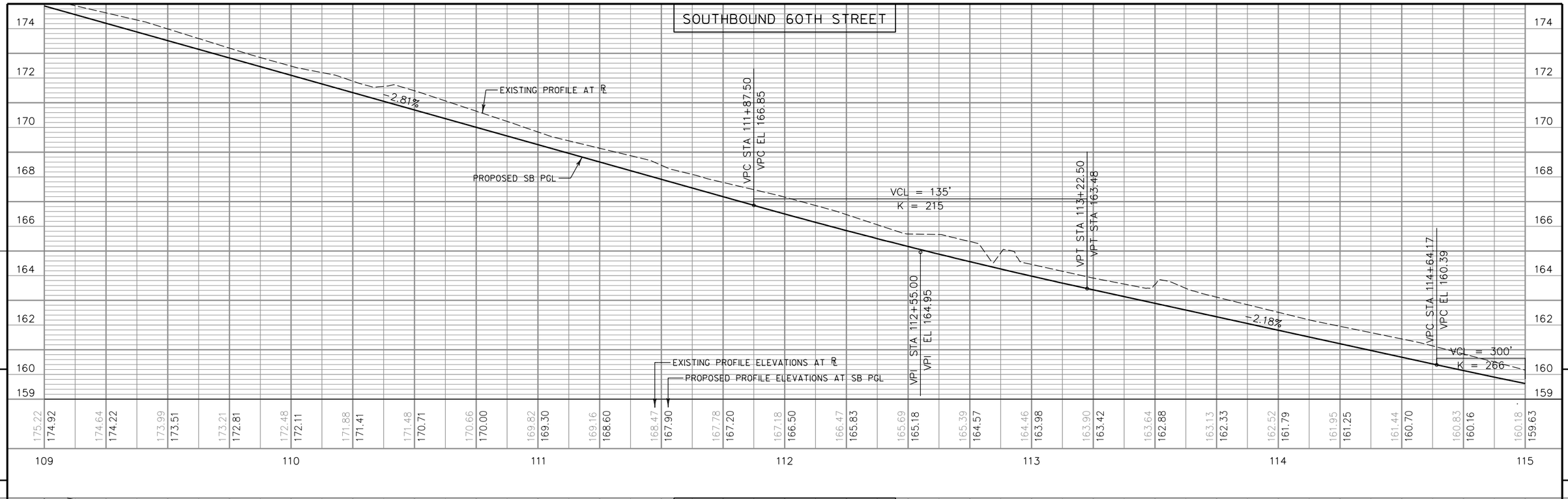
3347 3339 3335 3325 3317 3309 6001 3265 6000 3350 3344 3338 3332 3324 3316 3310 3300 3278 3268

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE: S. 60TH STREET	SHEET 266	E

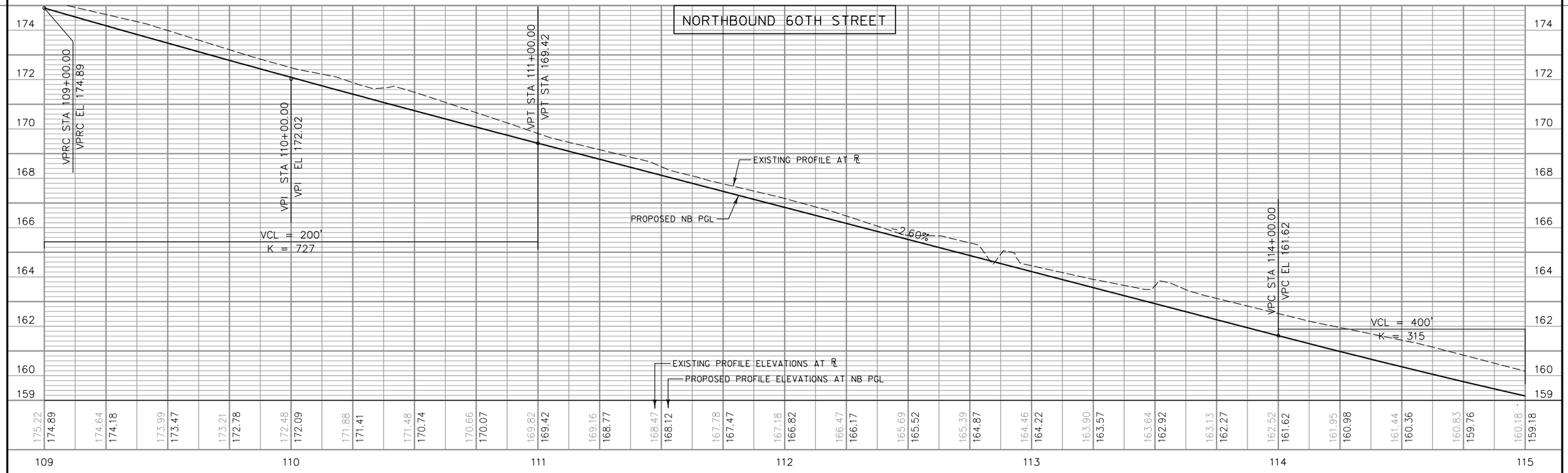
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WISDOT/CADDS SHEET 44

SOUTHBOUND 60TH STREET



NORTHBOUND 60TH STREET



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN & PROFILE: S. 60TH STREET	SHEET 267	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\050103A_pp.dgn PLOT DATE : 7/30/2018 PLOT BY : dks PLOT NAME : $FILE$ PLOT SCALE : 1:40

WISDOT/CADDS SHEET 46A

LEGEND

X TREE REMOVAL

XX SIGNED CONSTRUCTION PERMIT

N

WE ENERGIES GAS

CAUTION

ATC

EXISTING R/W

CITY OF MILWAUKEE WATER

CITY OF MILWAUKEE SANITARY

CITY OF MILWAUKEE COMM.

MMSD

CITY OF MILWAUKEE LIGHTING

ATT TELEPHONE

R/L S. 60TH ST

WE ENERGIES ELECTRIC

S. 60TH STREET

CITY OF MILWAUKEE WATER

EXISTING R/W

WE ENERGIES GAS

CAUTION

CITY OF MILWAUKEE SANITARY

MATCH LINE STA. 115+00

MATCH LINE STA. 121+00

5

5

3257 3249 3243 3233 3225 3219 3211 3205 3201 3160

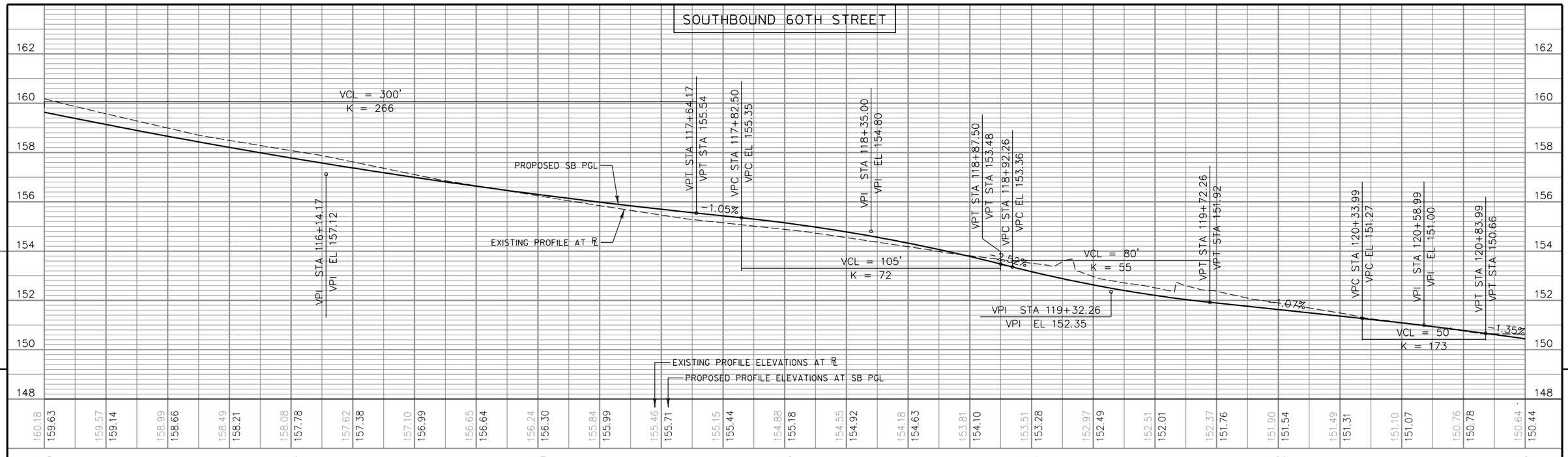
3262 3252 3244 3238 3234 3226 3216 3208 3206 3200 3170

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE: S. 60TH STREET	SHEET 268	E

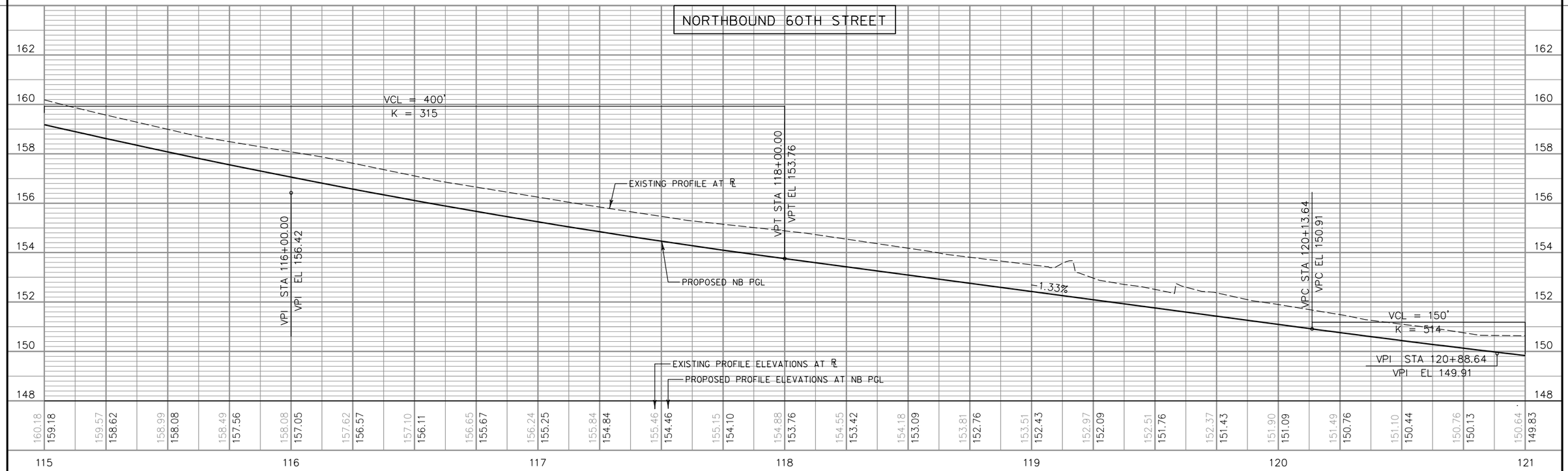
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WISDOT/CADDS SHEET 44

SOUTHBOUND 60TH STREET



NORTHBOUND 60TH STREET



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN & PROFILE: S. 60TH STREET	SHEET 269 E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\050104A_pp.dgn PLOT DATE : 7/30/2018 PLOT BY : dks PLOT NAME : $FILE$ PLOT SCALE : 1:40

WISDOT/CADDS SHEET 46A

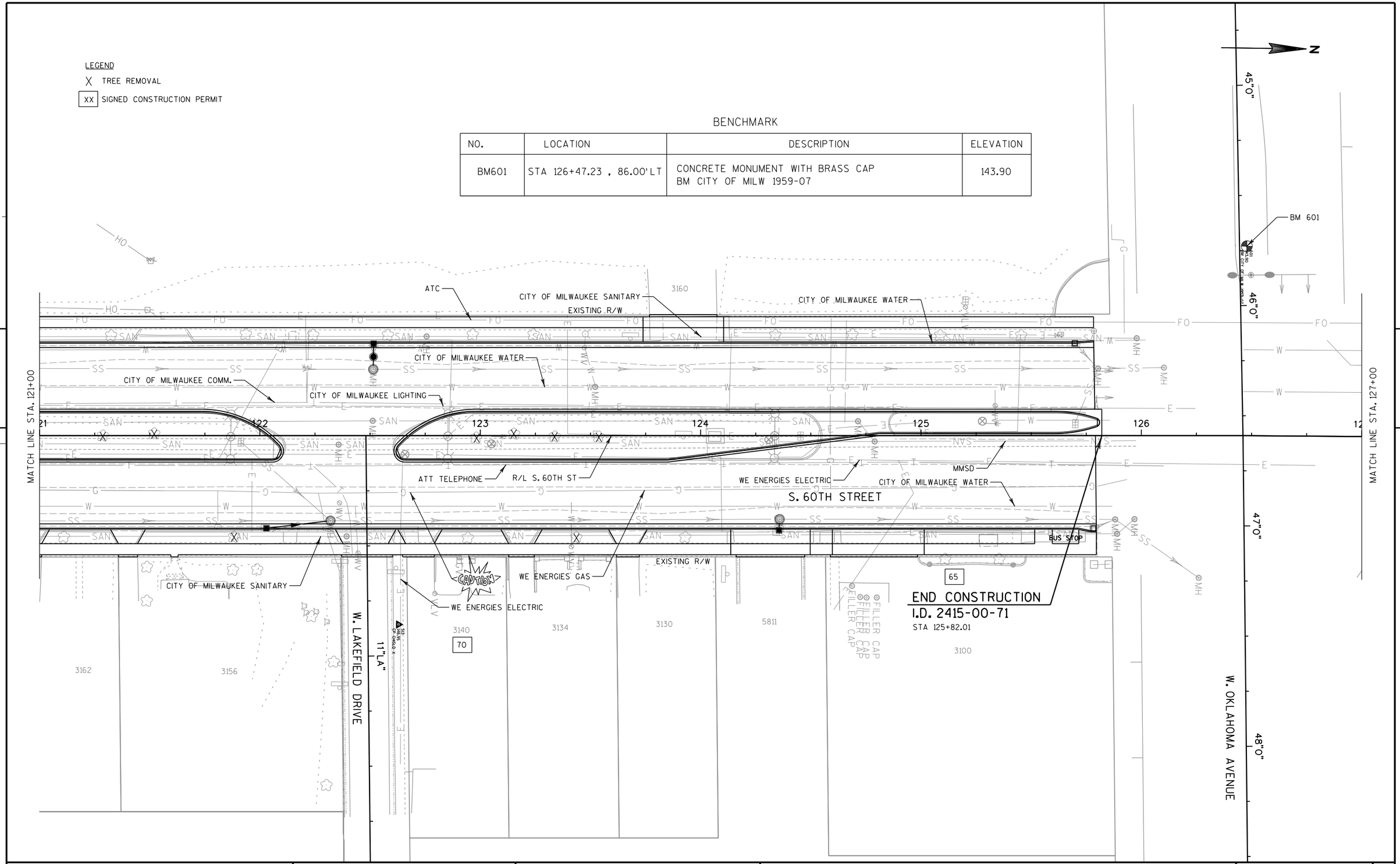
LEGEND

X TREE REMOVAL

XX SIGNED CONSTRUCTION PERMIT

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
BM601	STA 126+47.23 , 86.00' LT	CONCRETE MONUMENT WITH BRASS CAP BM CITY OF MILW 1959-07	143.90

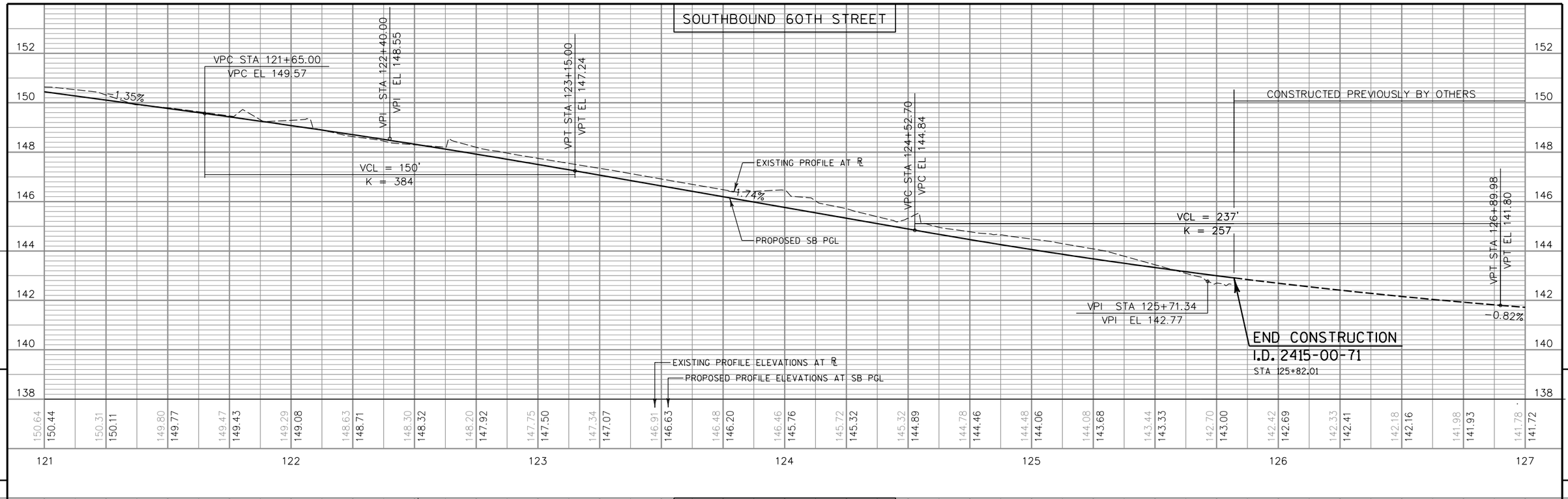


PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE: S. 60TH STREET	SHEET 270	E

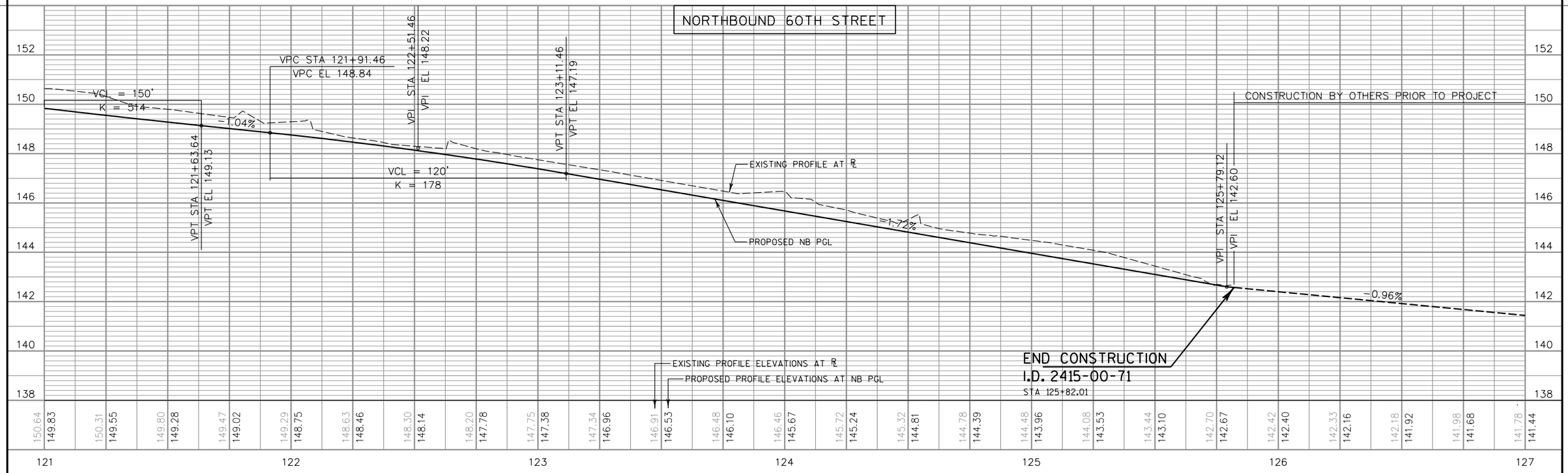
FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\050105_pp.dgn PLOT DATE : 7/30/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 44

SOUTHBOUND 60TH STREET



NORTHBOUND 60TH STREET



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN & PROFILE: S. 60TH STREET	SHEET 271	E

LEGEND

X TREE REMOVAL

XX SIGNED CONSTRUCTION PERMIT

N

BEGIN CONSTRUCTION
I.D. 2415-00-71
STA 127+06.24

MATCH LINE STA. 127+00

MATCH LINE STA. 133+00

5

5

BUS STOP

CITY OF MILWAUKEE WATER

CITY OF MILWAUKEE WATER

R/L S. 60TH ST

CITY OF MILWAUKEE SANITARY

48

3025

SIGNATURE BED
STA 102+25 TO STA 103+10
SEE CONSTRUCTION DETAIL

ATC

EXISTING R/W

CITY OF MILWAUKEE LIGHTING

CITY OF MILWAUKEE COMM.

MMSD

WE ENERGIES ELECTRIC

CITY OF MILWAUKEE WATER

S. 60TH STREET

EXISTING R/W

WE ENERGIES GAS

EXISTING R/W

WE ENERGIES GAS

CITY OF MILWAUKEE SANITARY

CAUTION

SEE SPECIAL PROVISIONS
"NOTICE TO CONTRACTOR - CONTAMINATION BEYOND CONSTRUCTION LIMITS" DURING WORK IN THIS AREA.

CAUTION

62

106

58

W. BENNETT AVENUE

11"B"

12"B"

MATCH EXISTING
(SEE CONSTRUCTION DETAIL "ASPHALTIC SURFACE BUTT JOINTS")

6030

3011

3003

5912

3064

3054

3038

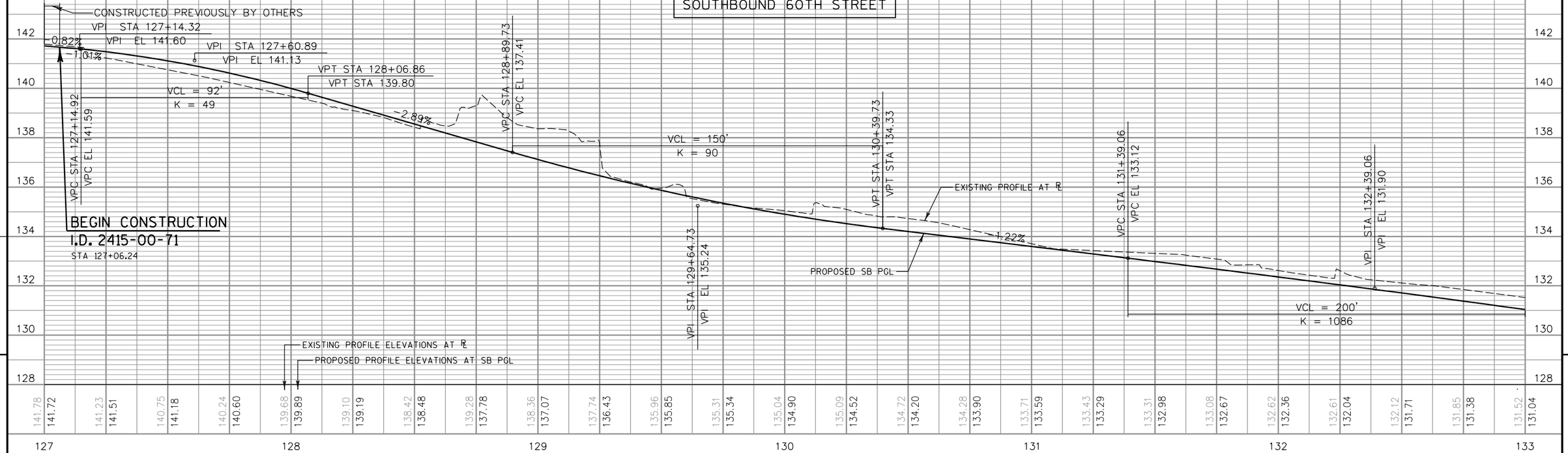
3026

3016

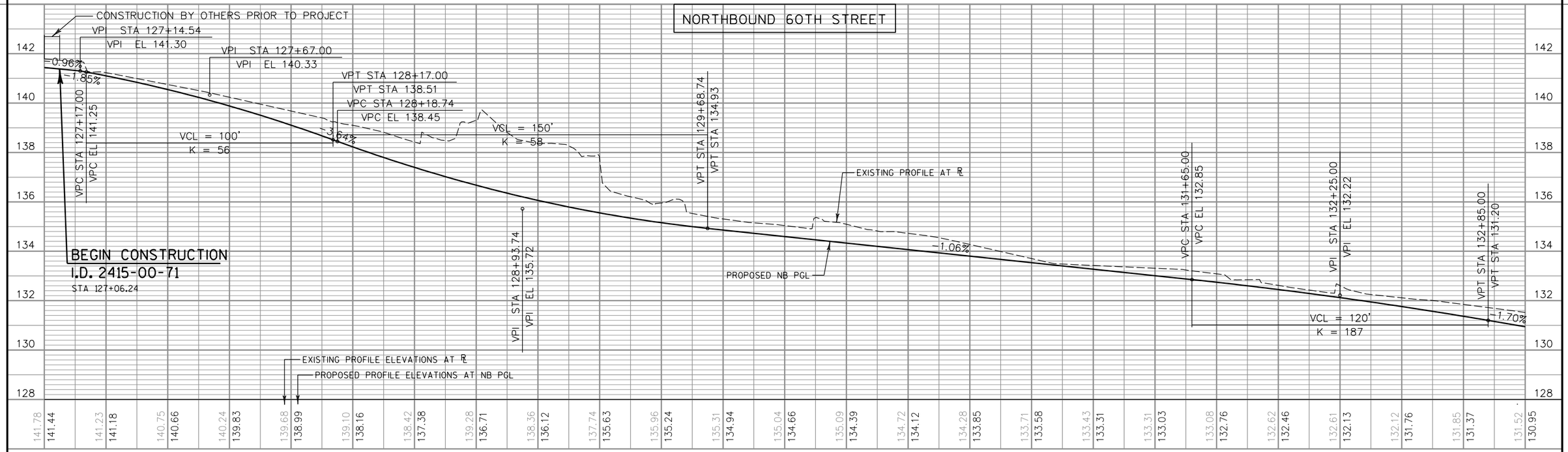
3000

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE: S. 60TH STREET	SHEET 272	E

SOUTHBOUND 60TH STREET



NORTHBOUND 60TH STREET



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN & PROFILE: S. 60TH STREET	SHEET 273	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\050106A_pp.dgn PLOT DATE : 7/30/2018 PLOT BY : dks PLOT NAME : $FILE$ PLOT SCALE : 1:40

WISDOT/CADDS SHEET 46A

LEGEND

X TREE REMOVAL

XX SIGNED CONSTRUCTION PERMIT

N

MATCH LINE STA. 133+00

MATCH LINE STA. 139+00

5

5

CITY OF MILWAUKEE SANITARY

ATC

EXISTING R/W

WE ENERGIES GAS

CAUTION

CITY OF MILWAUKEE WATER

CITY OF MILWAUKEE LIGHTING

CITY OF MILWAUKEE COMM.

R/L S. 60TH ST

MMSD

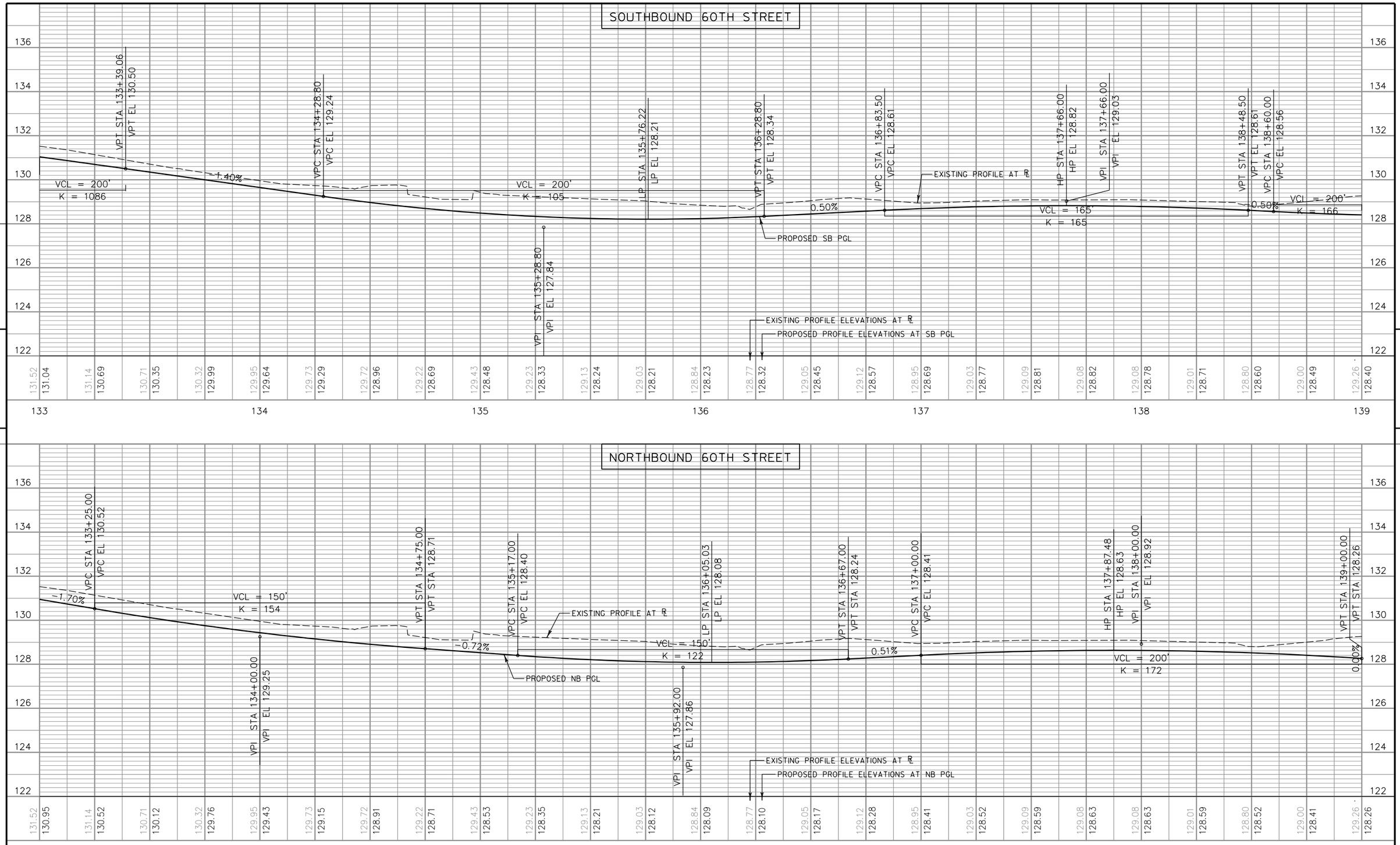
S. 60TH STREET

2981 2975 2967 2961 2953 2947 2935 2929 2917 2911 2905

2976 2970 2964 2956 2950 2942 2936 2930 2922 2916 2910

117 50 55 56

PROJECT NO: 2415-00-71 | HWY: S. 60TH ST. | COUNTY: MILWAUKEE | PLAN AND PROFILE: S. 60TH STREET | SHEET 274 | E



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN & PROFILE: S. 60TH STREET	SHEET 275	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\050107A_pp.dgn PLOT DATE : 7/30/2018 PLOT BY : dks PLOT NAME : $FILE$ PLOT SCALE : 1:40

WISDOT/CADDS SHEET 46A

LEGEND

X TREE REMOVAL

XX SIGNED CONSTRUCTION PERMIT

MATCH LINE STA. 139+00

MATCH LINE STA. 145+00

5

5

41

MATCH EXISTING (SEE CONSTRUCTION DETAIL "ASPHALTIC SURFACE BUTT JOINTS")

EXISTING R/W

BUS STOP

CITY OF MILWAUKEE WATER EXISTING R/W

WE ENERGIES GAS

CAUTION

CITY OF MILWAUKEE SANITARY

ATC

CITY OF MILWAUKEE WATER

CITY OF MILWAUKEE COMM.

R/L S. 60TH ST

MMSD

CITY OF MILWAUKEE LIGHTING

CITY OF MILWAUKEE WATER

S. 60TH STREET

EXISTING R/W

BUS STOP

MATCH EXISTING (SEE CONSTRUCTION DETAIL "ASPHALTIC SURFACE BUTT JOINTS")

W. STACK DRIVE

11"S"

SPECTRUM COMM.

SPECTRUM COMM.

SPECTRUM COMM.

CAUTION

EXISTING R/W

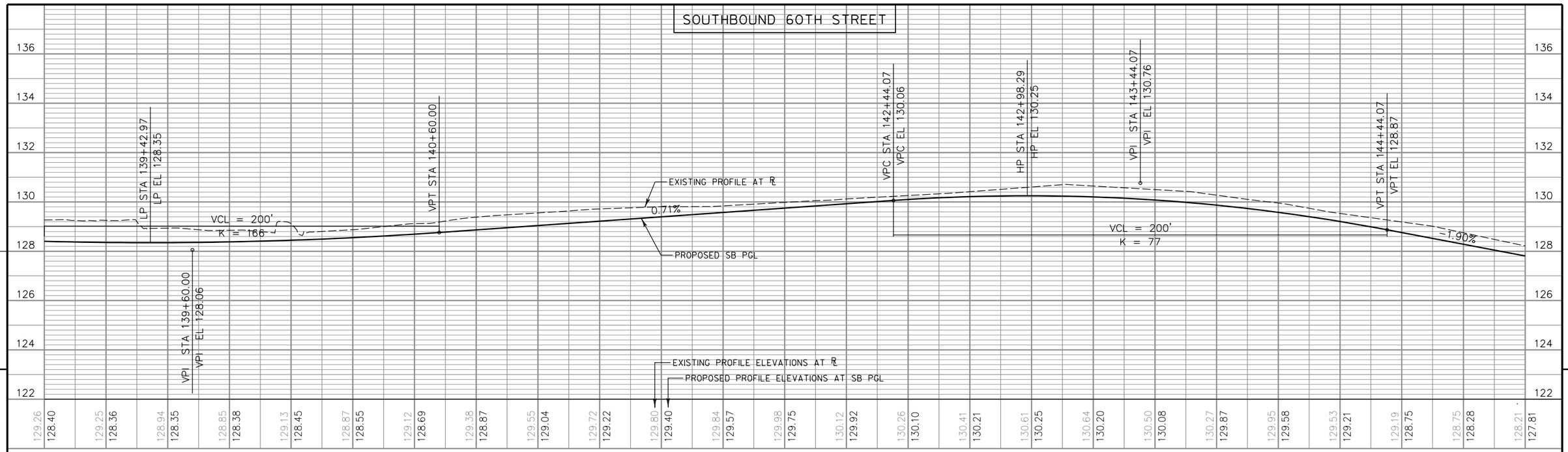
WE ENERGIES GAS

MMSD

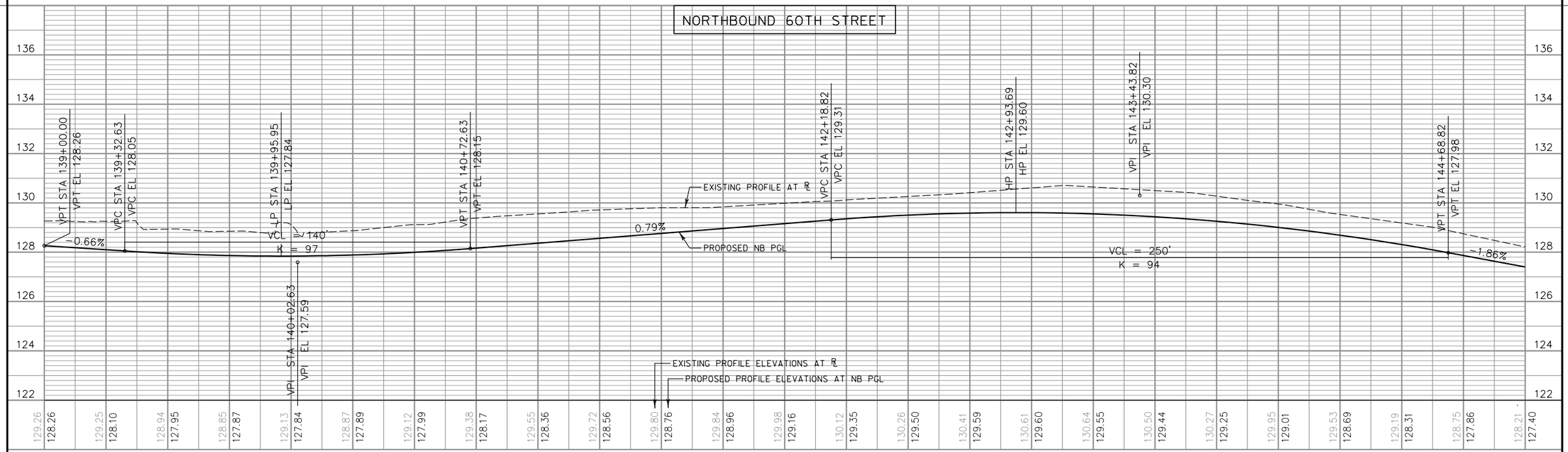
CITY OF MILWAUKEE SANITARY

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE: S. 60TH STREET	SHEET 276	E

SOUTHBOUND 60TH STREET



NORTHBOUND 60TH STREET



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN & PROFILE: S. 60TH STREET	SHEET 277 E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\050108A_pp.dgn PLOT DATE : 7/30/2018 PLOT BY : dks PLOT NAME : $FILE$ PLOT SCALE : 1:40

WISDOT/CADDS SHEET 46A

LEGEND

X TREE REMOVAL

XX SIGNED CONSTRUCTION PERMIT

N

10"MT"

11"MT"

W. MONTANA STREET

MATCH EXISTING (SEE CONSTRUCTION DETAIL "ASPHALTIC SURFACE BUTT JOINTS")

EXISTING R/W

CITY OF MILWAUKEE SANITARY

CITY OF MILWAUKEE WATER

WE ENERGIES GAS

CAUTION

ATC

CITY OF MILWAUKEE COMM.

CITY OF MILWAUKEE LIGHTING

MMSD

R/L S. 60TH ST

S. 60TH STREET

SIGNATURE BED
STA 102+25 TO STA 103+10
SEE CONSTRUCTION DETAIL

MATCH LINE STA. 145+00

MATCH LINE STA. 151+00

5

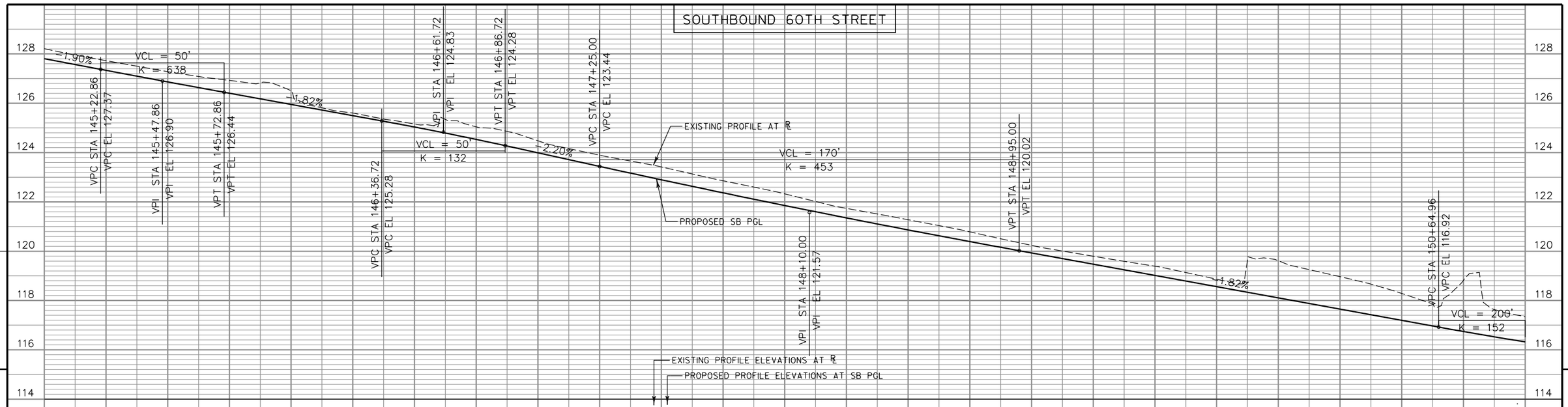
5

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE: S. 60TH STREET	SHEET 278	E

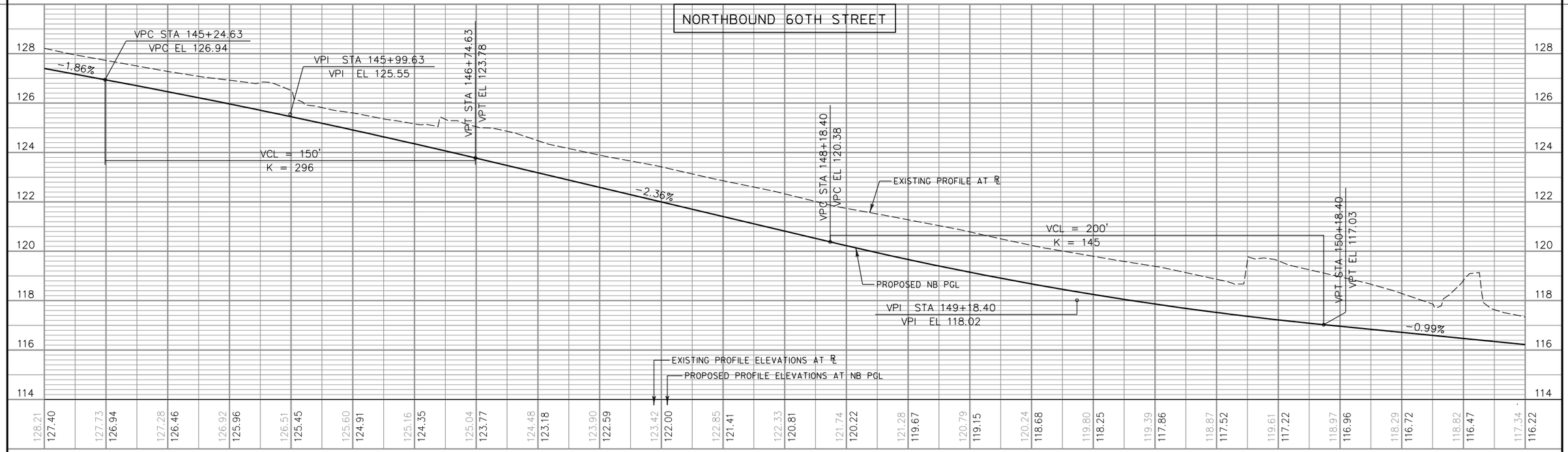
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WISDOT/CADDS SHEET 44

SOUTHBOUND 60TH STREET



NORTHBOUND 60TH STREET



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN & PROFILE: S. 60TH STREET	SHEET 279 E

LEGEND

X TREE REMOVAL

XX SIGNED CONSTRUCTION PERMIT

N

W. CLEVELAND AVENUE

55"C"

56"C"

57"C"

58"C"

MATCH LINE STA. 151+00

MATCH LINE STA. 157+00

5

5

34

158

135

6012

2719

6001

2655

2641

2629

2700

2650

2650

2650

MATCH EXISTING (SEE CONSTRUCTION DETAIL "ASPHALTIC SURFACE BUTT JOINTS")

WE ENERGIES GAS

CITY OF MILWAUKEE SANITARY

EXISTING R/W

BUS STOP

CITY OF MILWAUKEE LIGHTING

CITY OF MILWAUKEE COMM.

ATT FIBER OPTIC

MMSD

R/L S. 60TH ST

CITY OF MILWAUKEE WATER

ATC

CAUTION

S. 60TH STREET

MATCH EXISTING (SEE CONSTRUCTION DETAIL "ASPHALTIC SURFACE BUTT JOINTS")

CITY OF MILWAUKEE COMM.

CITY OF MILWAUKEE LIGHTING

BM 600

BENCHMARK

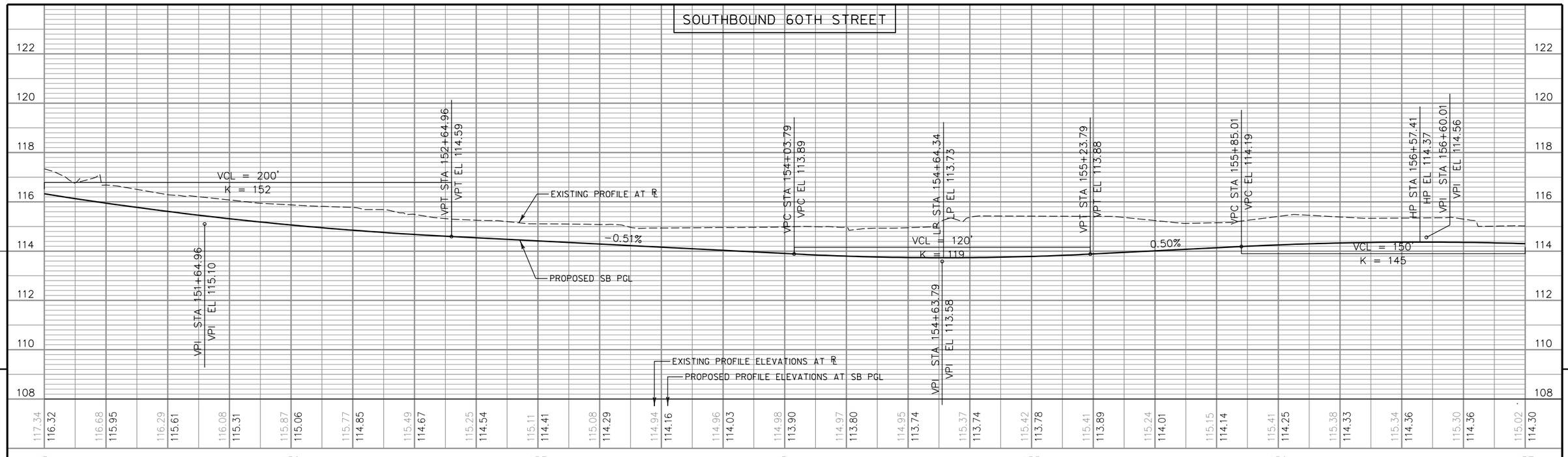
NO.	LOCATION	DESCRIPTION	ELEVATION
BM600	STA 152+47.58, 203.23'RT	CONCRETE MONUMENT WITH BRASS CAP BM CITY OF MILW 1974-06	119.10

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE: S. 60TH STREET	SHEET 280	E

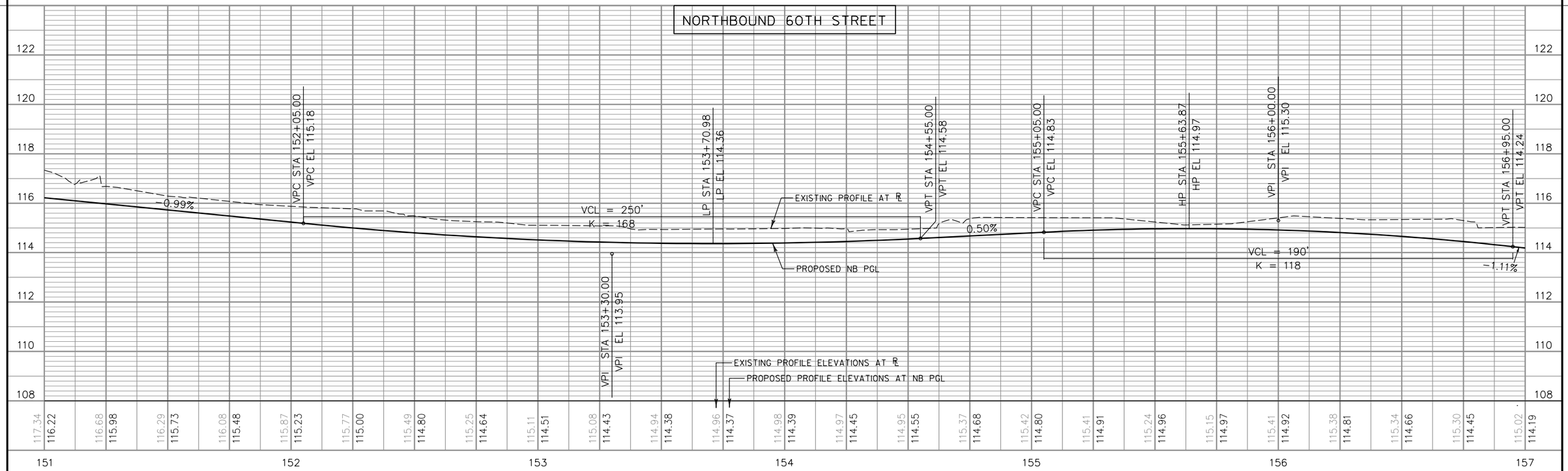
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WISDOT/CADDS SHEET 44

SOUTHBOUND 60TH STREET



NORTHBOUND 60TH STREET



PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN & PROFILE: S. 60TH STREET	SHEET 281	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\CADDS\24150001\SheetsPlan\050110A_pp.dgn PLOT DATE : 7/30/2018 PLOT BY : dks PLOT NAME : $FILE$ PLOT SCALE : 1:40

WISDOT/CADDS SHEET 46A

LEGEND

X TREE REMOVAL

XX SIGNED CONSTRUCTION PERMIT

KINNICKINNIC RIVER PARKWAY
NO DISTURBANCE OUTSIDE OF PLE

N

8"K"

W. KINNICKINNIC PKWY

9"K"

MATCH EXISTING
(SEE CONSTRUCTION
DETAIL "ASPHALTIC
SURFACE BUTT JOINTS")

SLOPE INTERCEPT

ATC

EXISTING R/W

6001

6000

END PROJECT
STA 159+31.51
STA 159+31.51

EXISTING R/W

ATC

2567 2561 2557 2551 2545 2541 2535

MATCH LINE STA. 157+00

CITY OF MILWAUKEE LIGHTING

157 158 159 160 161 162 163

R/L S. 60TH ST

MMSD

CITY OF MILWAUKEE WATER

CITY OF MILWAUKEE WATER

S. 60TH STREET

EXISTING R/W

CAUTION

END CONSTRUCTION
I.D. 2415-00-71
STA 160+01.78

WE ENERGIES GAS

NO DISTURBANCE
OUTSIDE OF PLE

15' GAS MAIN EASEMENT
MILWAUKEE GAS LIGHT COMPANY

TREE CLEARING LIMITS

SLOPE INTERCEPT

MATCH EXISTING
(SEE CONSTRUCTION
DETAIL "ASPHALTIC
SURFACE BUTT JOINTS")

11"K"

5908 5944 5936 5930 5920

20' CITY OF MILWAUKEE
WATER MAIN EASEMENT

SEE CONSTRUCTION DETAIL
"STORM SEWER OUTFALL DETAIL"

HEAVY
RIPRAP

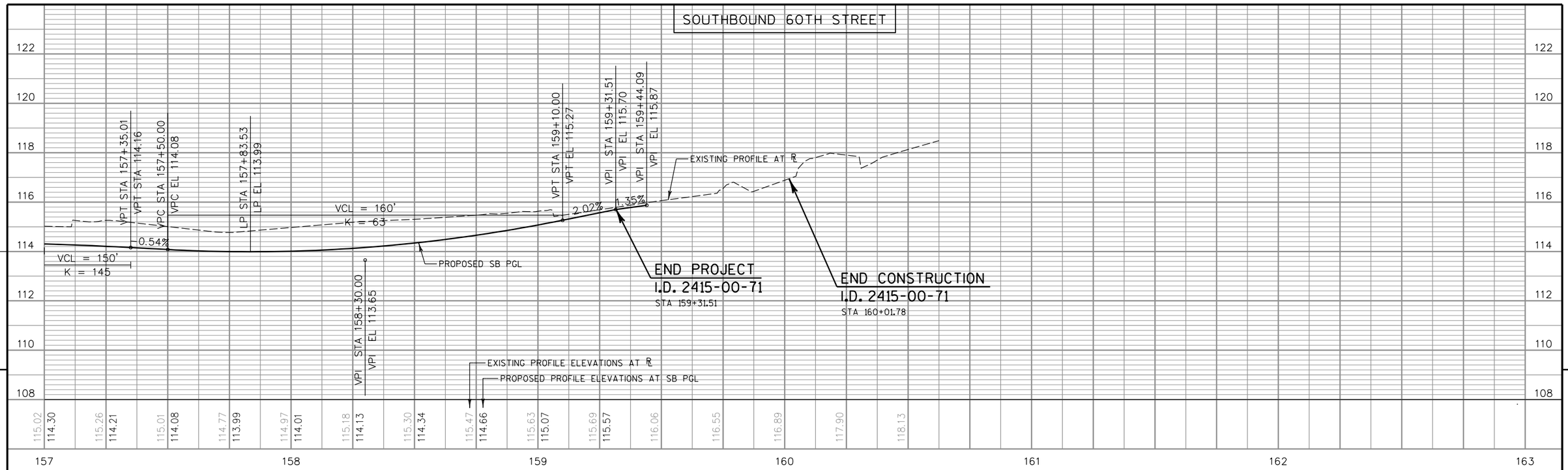
WETLAND

PLE

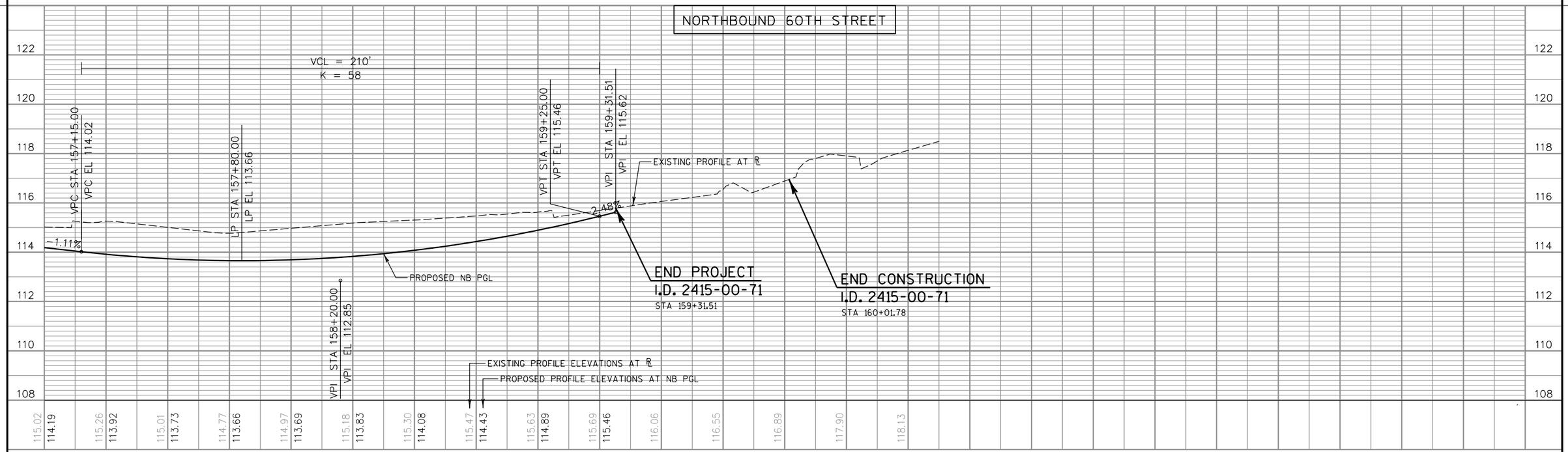
NO DISTURBANCE
OUTSIDE OF PLE

PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE: S. 60TH STREET	SHEET 282 E

SOUTHBOUND 60TH STREET



NORTHBOUND 60TH STREET

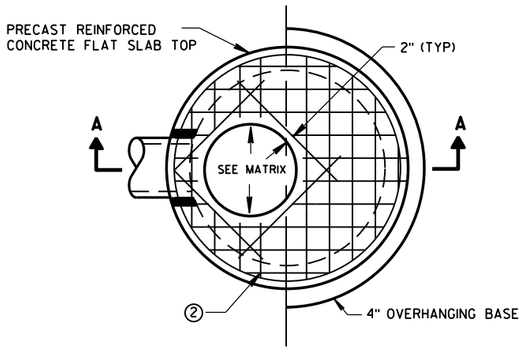


PROJECT NO: 2415-00-71	HWY: S. 60TH ST.	COUNTY: MILWAUKEE	PLAN & PROFILE: S. 60TH STREET	SHEET 283	E

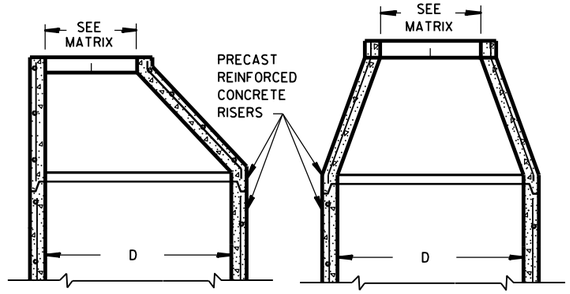
Standard Detail Drawing List

08A08-02	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-10	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C11-10	CONCRETE BASE TYPE 10
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-08A	TYPE 9 POLE 15'-30' MONOTUBE ARM
09E08-08B	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-08E	GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
09F09-04	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT)
11B01-05	CONCRETE CORRUGATED MEDIAN
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C04-17	URBAN NON-DOWELED CONCRETE PAVEMENT
13C18-06A	CONCRETE PAVEMENT JOINTING
13C18-06B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-06D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
14A02-01	TREE PLANTING DETAIL
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14A	PAVEMENT MARKING SYMBOLS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C07-14E	PAVEMENT MARKING FOR BIKE LANES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-04	MEDIAN ISLAND MARKING
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C29-06A	BICYCLE LANE MARKING
15C29-06B	PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D21-06	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-04A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-04B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-04C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

6

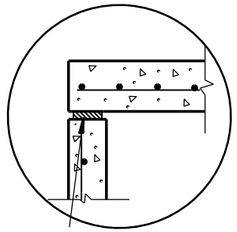


PLAN VIEW CIRCULAR OPENING

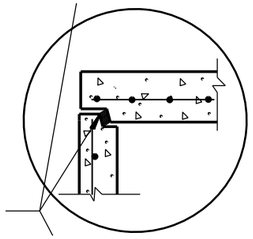


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

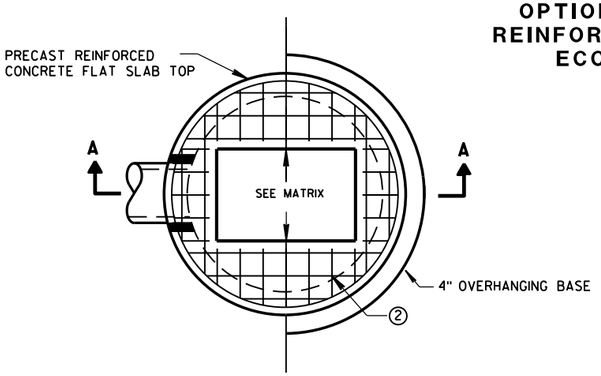
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



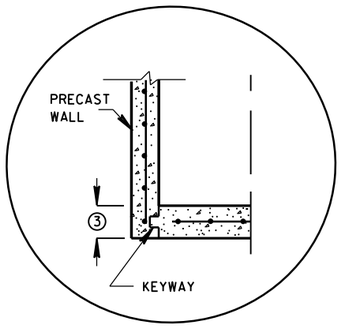
TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT

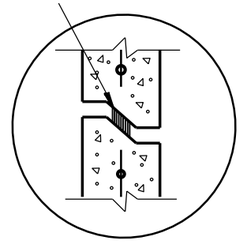


PLAN VIEW RECTANGULAR OPENING



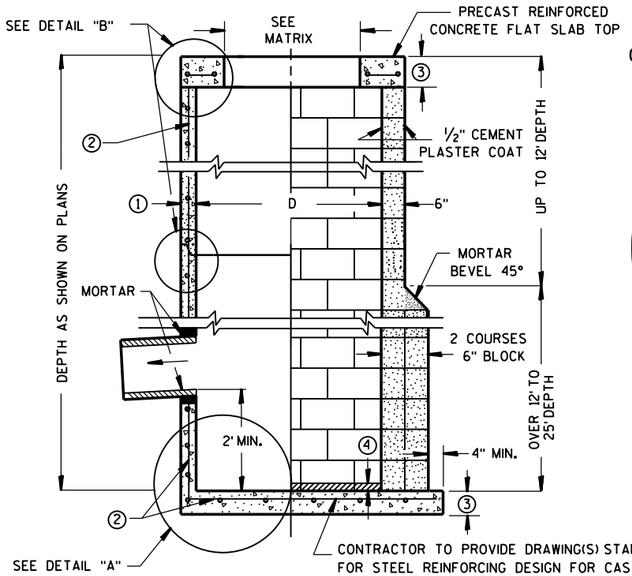
PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



RISER WITH TONGUE AND GROOVE JOINT

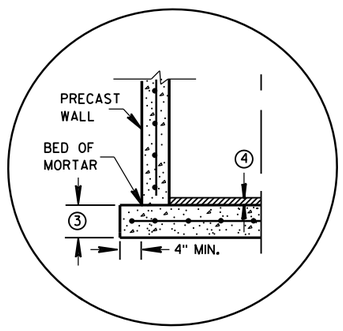
DETAIL "B"



SECTION A-A

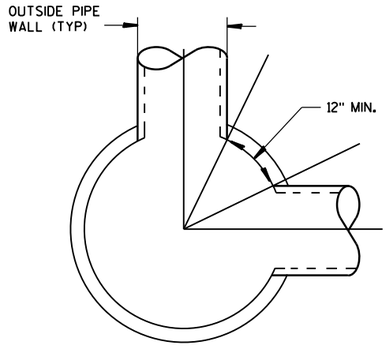
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

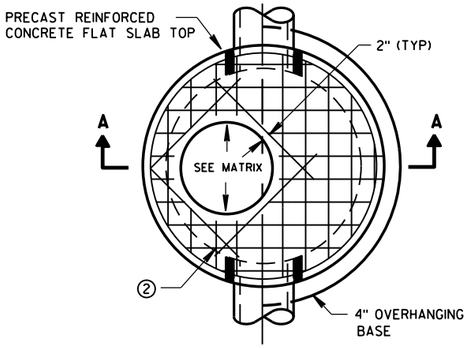
CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

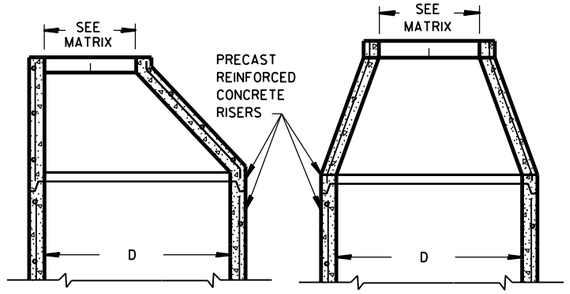
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

S.D.D. 8 A 8-2

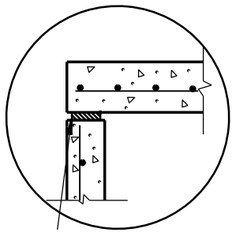


PLAN VIEW CIRCULAR OPENING

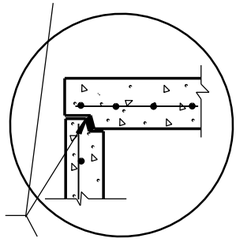


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

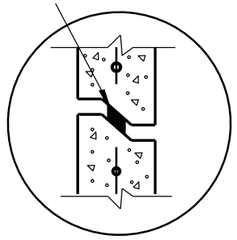


TOP WITH PLAIN END JOINT



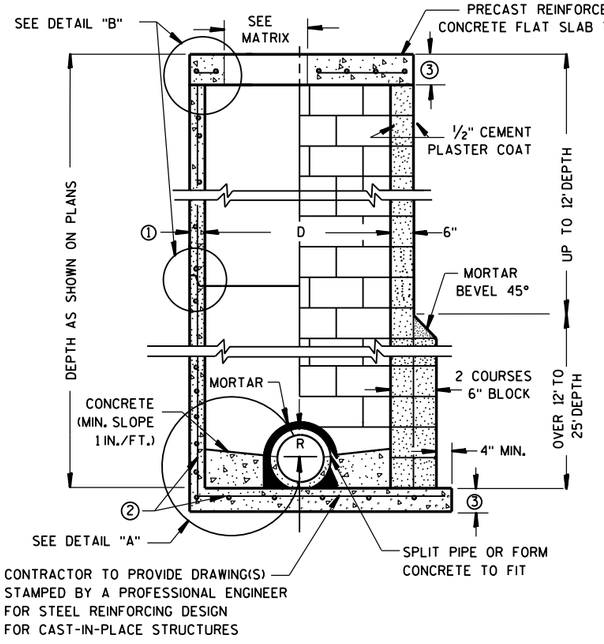
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



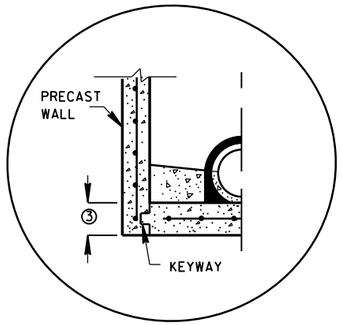
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

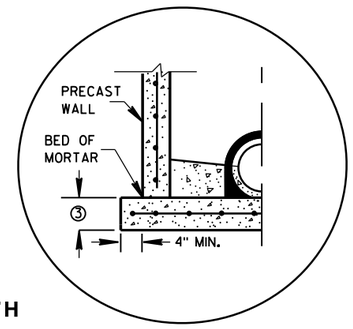


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

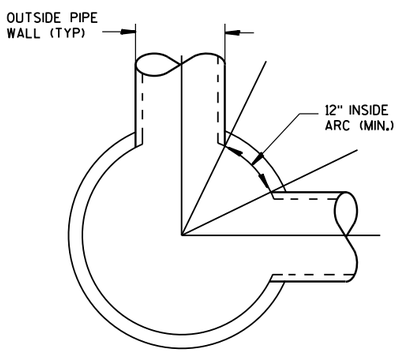


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

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STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

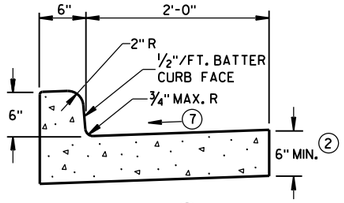
APPROVED

Sept., 2016
DATE

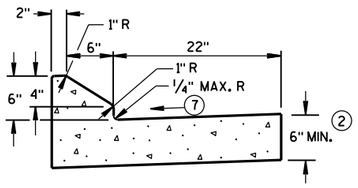
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

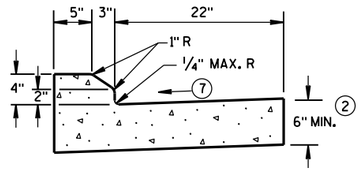
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S.D.D. 8 B 9-2



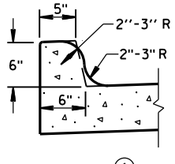
TYPES A (1) & D



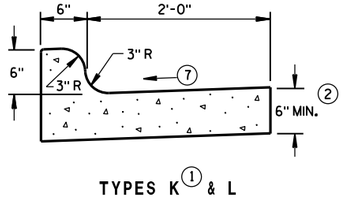
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

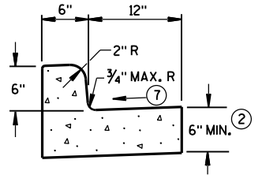


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



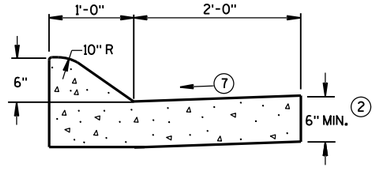
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

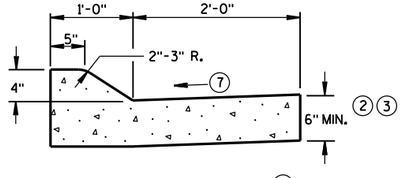


TYPES A (1) & D

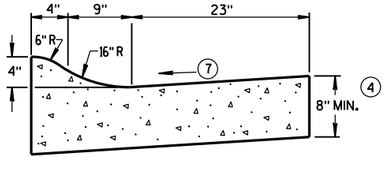
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

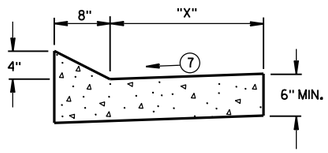


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

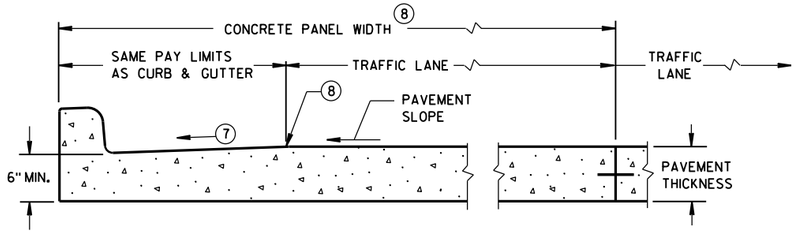
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

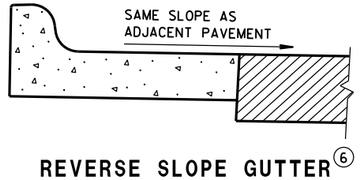
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.

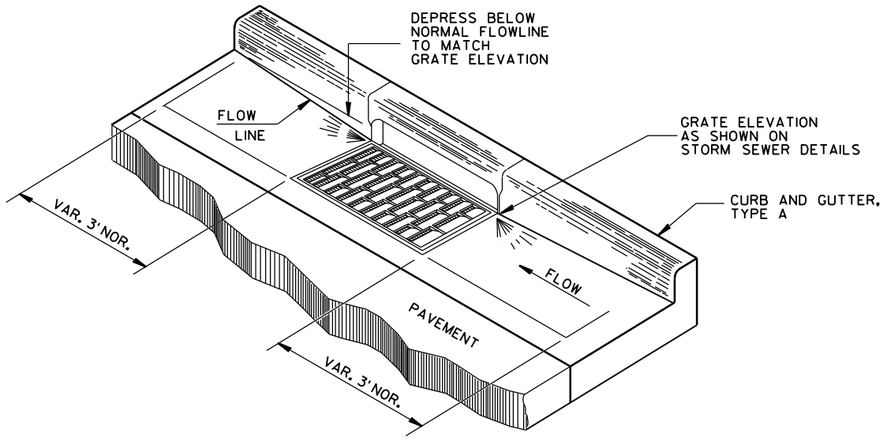


REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

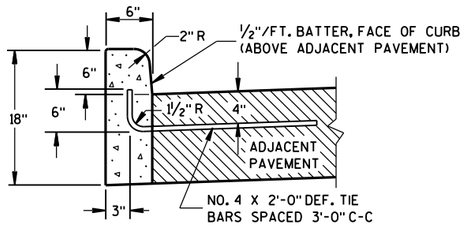
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

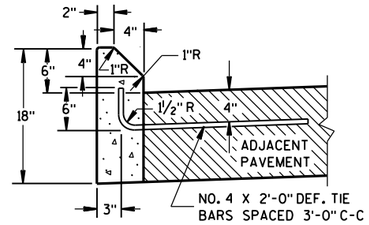
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

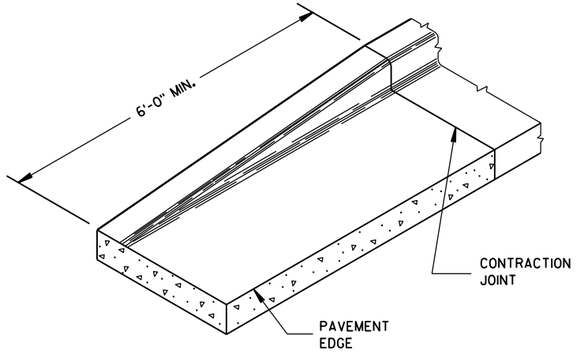


TYPES A(1) & D

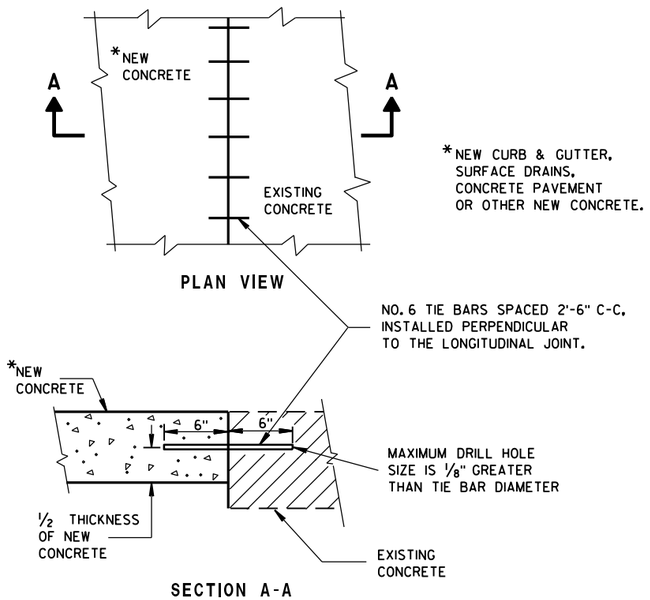


TYPES G(1) & J

CONCRETE CURB



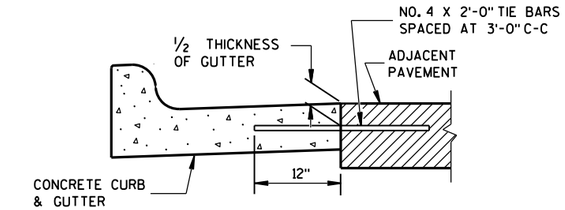
END SECTION CURB & GUTTER



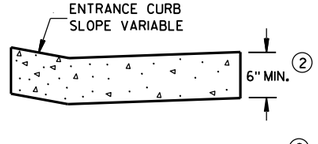
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

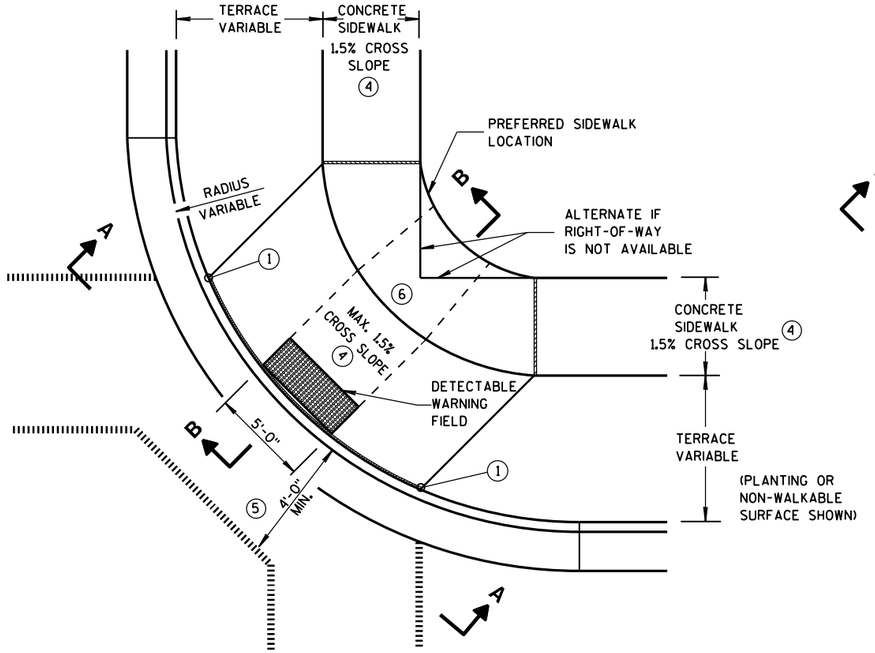
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
288 — ENT
FHWA

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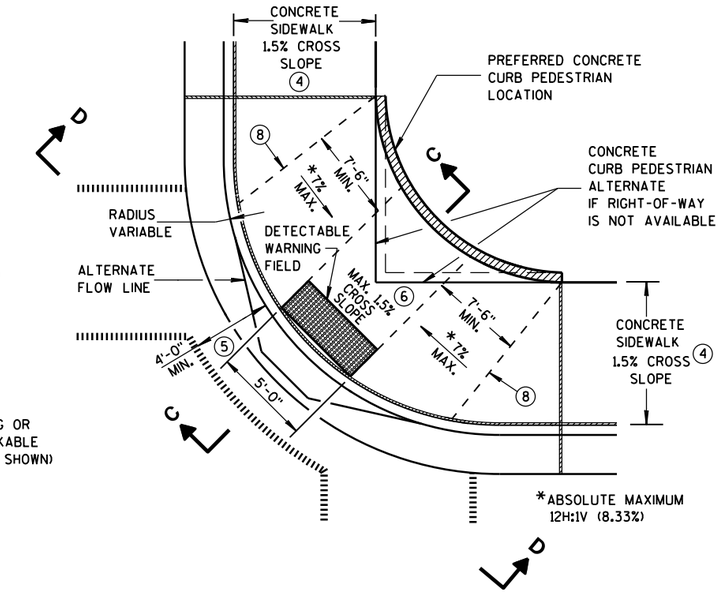
S.D.D. 8 D 1-20b



PLAN VIEW

TYPE 1 RAMP

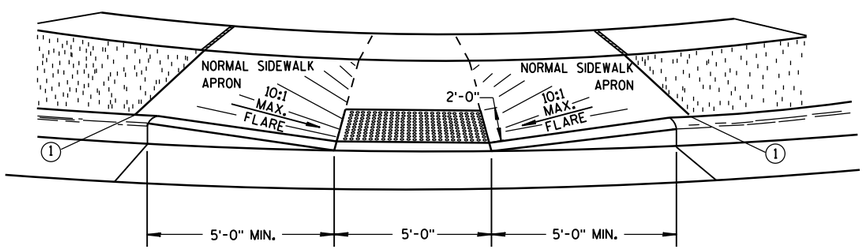
(CENTER OF CORNER RADIUS)



PLAN VIEW

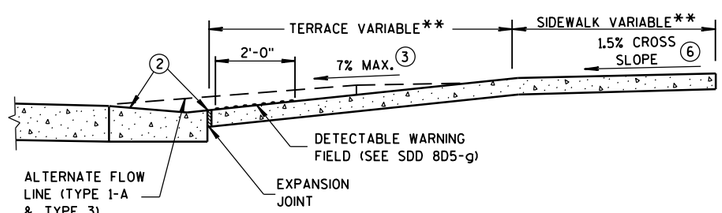
TYPE 1-A RAMP

(NO TERRACE)

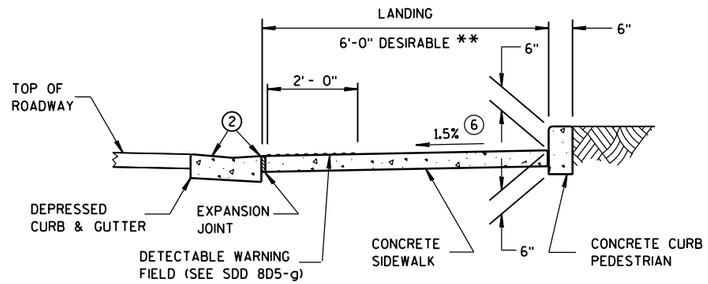


VIEW A-A

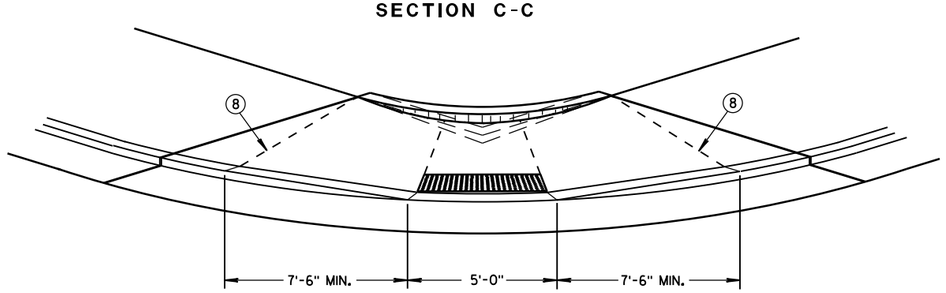
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

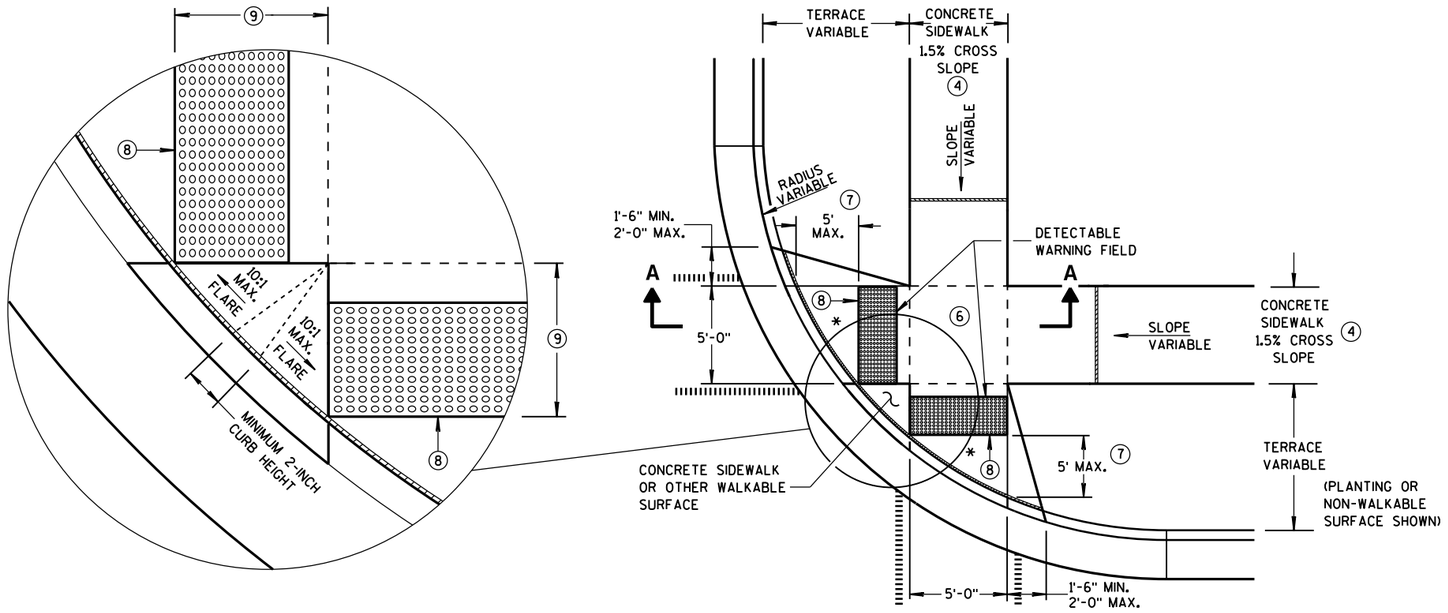
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

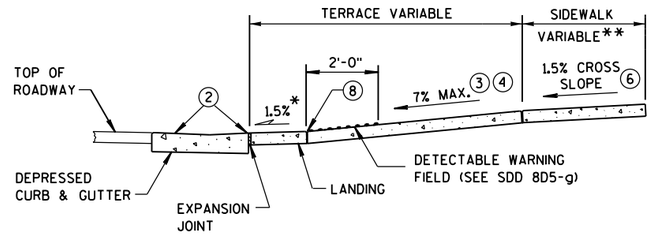
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S.D.D. 8 D 5-19a



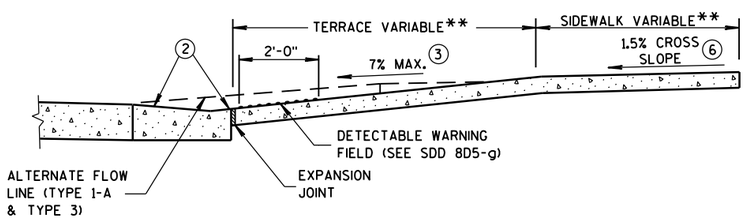
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

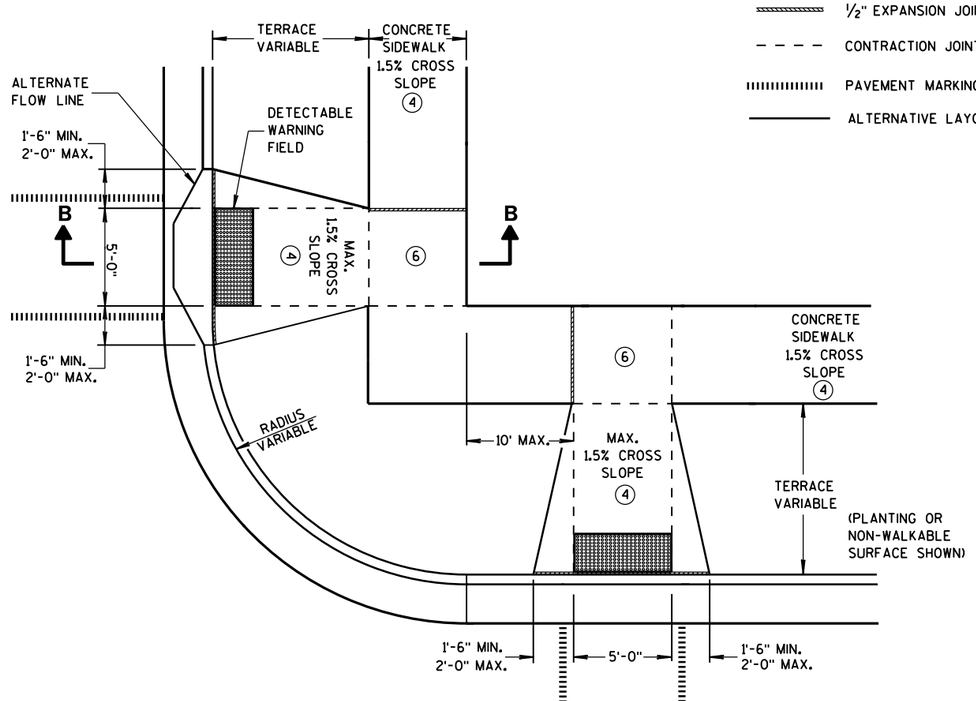


SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

6

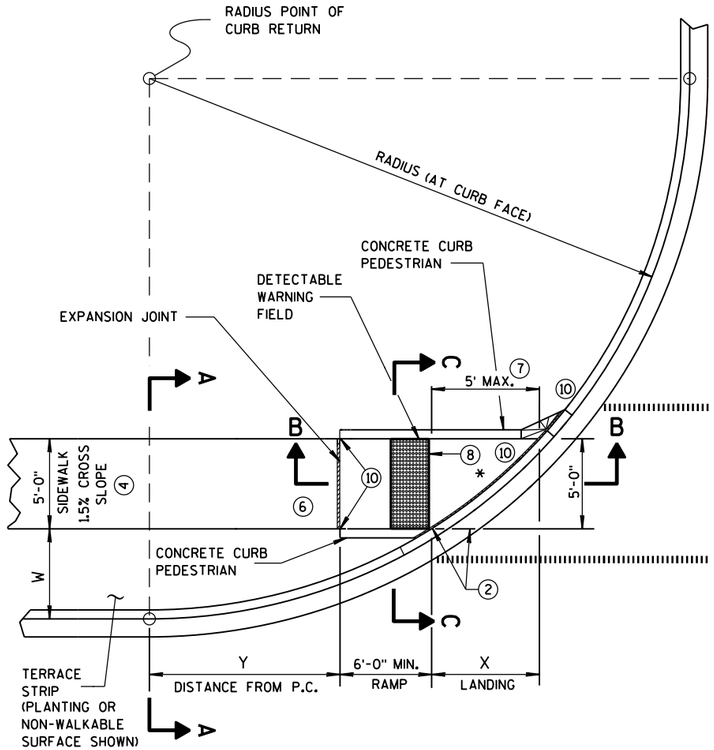
S.D.D. 8 D 5-19b

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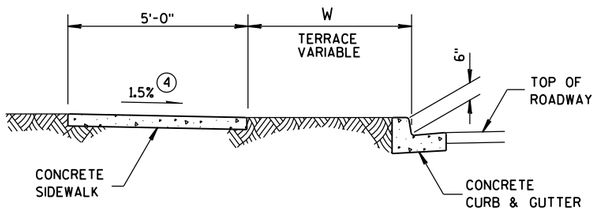
S.D.D. 8 D 5-19b

CURB RAMPS TYPES 2 AND 3

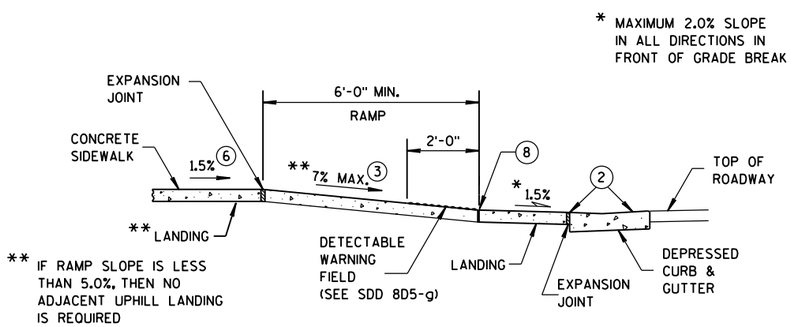
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



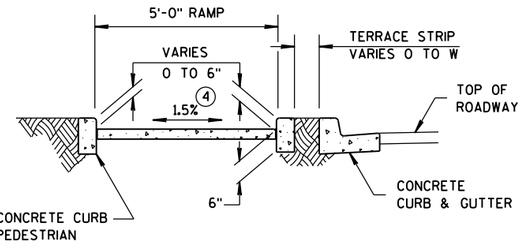
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C-C FOR TYPE 4B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

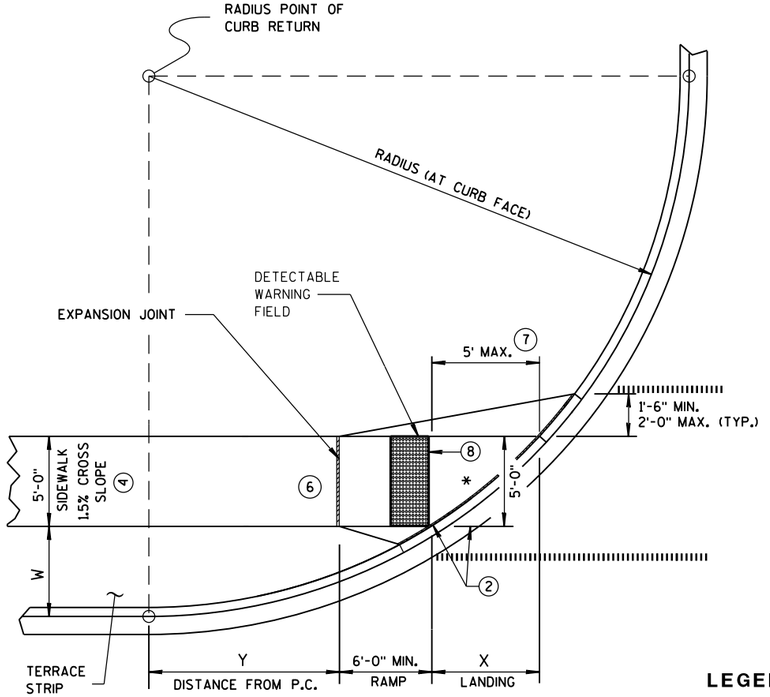
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

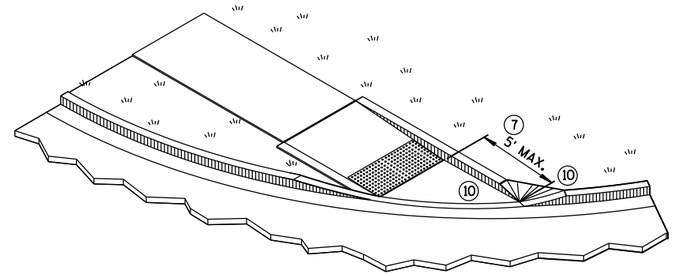
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

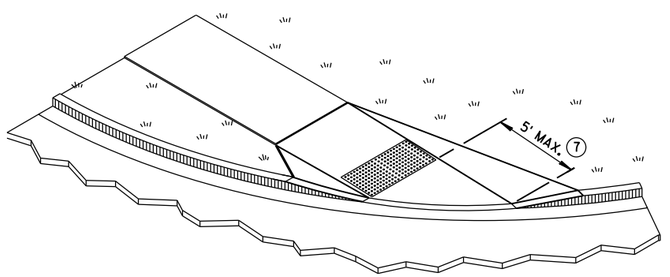
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

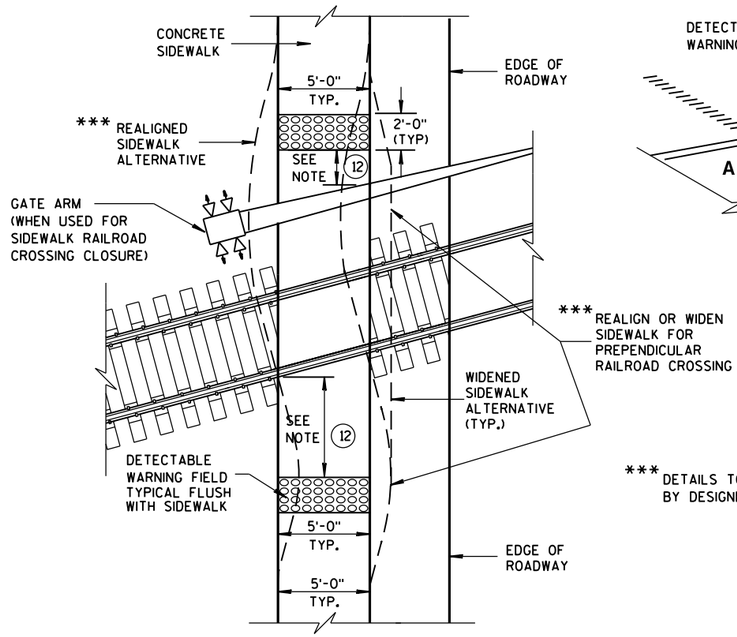
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

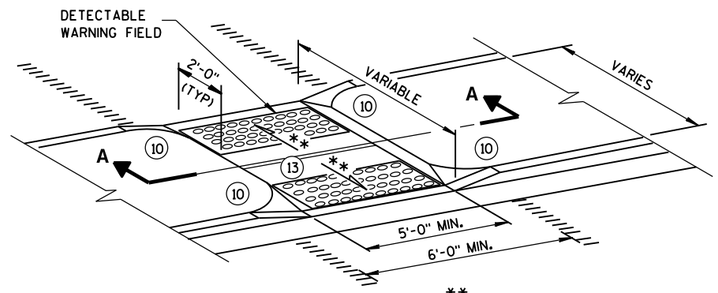
6

S.D.D. 8 D 5-19d



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

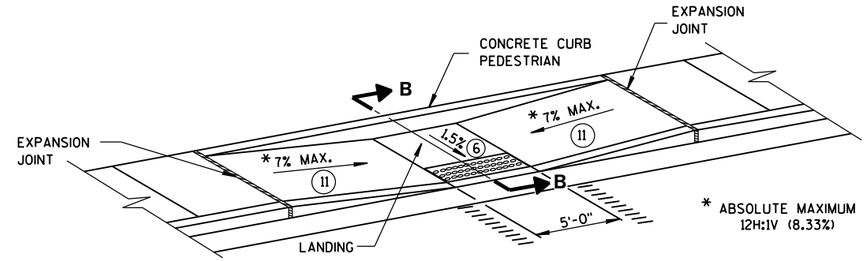
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

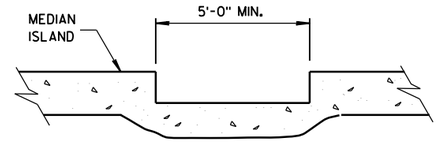
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

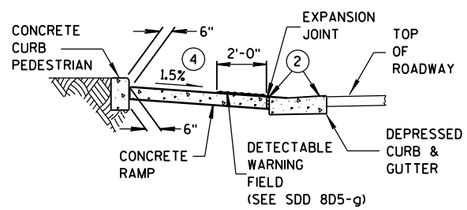
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

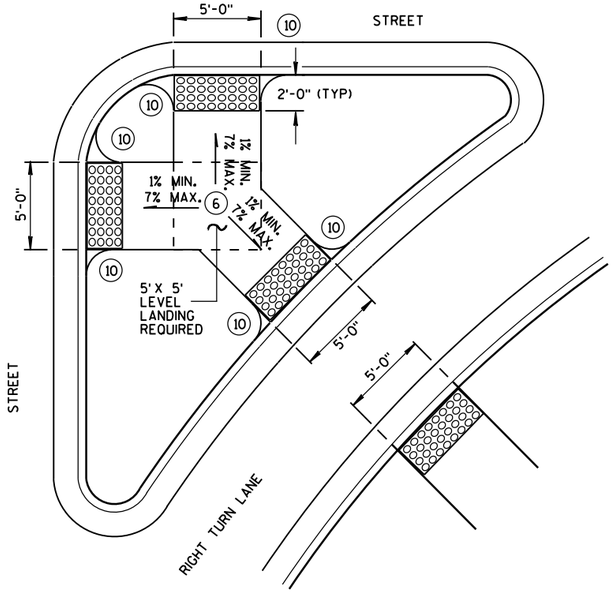


SECTION A-A

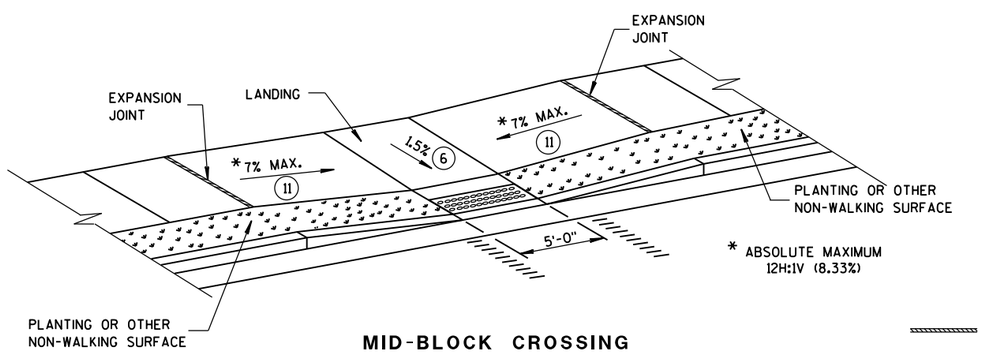


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

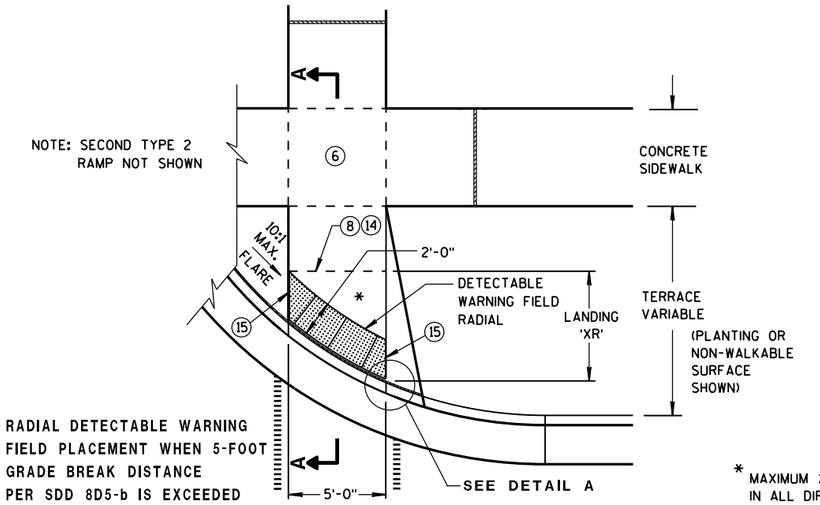
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

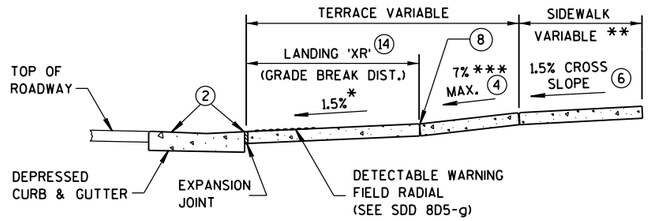
6

S.D.D. 8 D 5-19e



TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS (DWFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

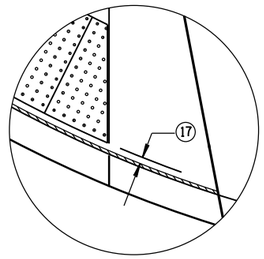
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

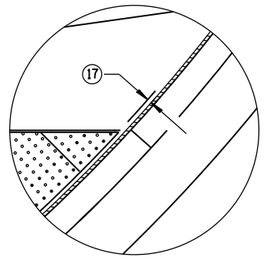
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

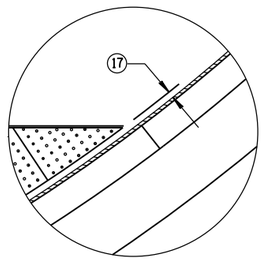
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



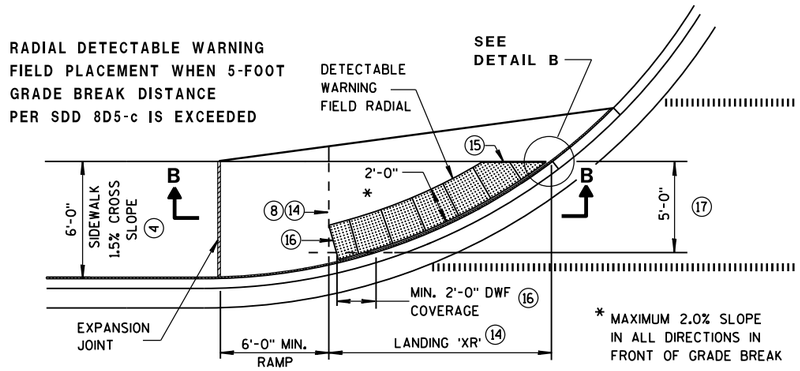
DETAIL A



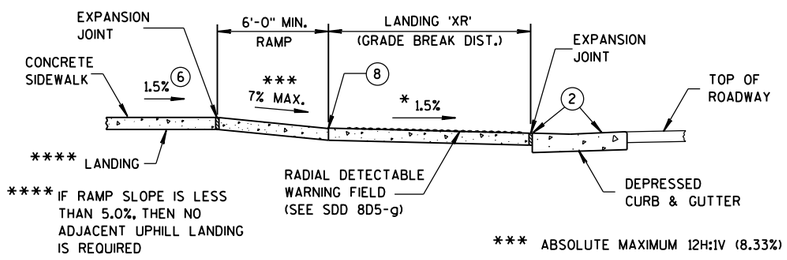
DETAIL C



DETAIL B



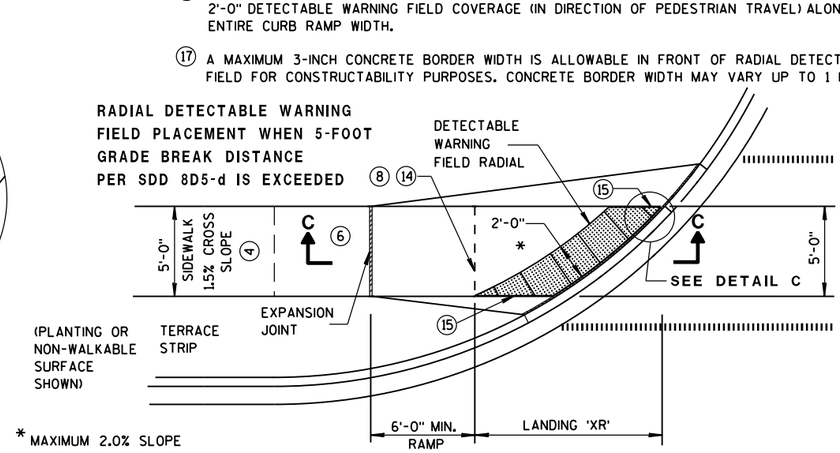
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



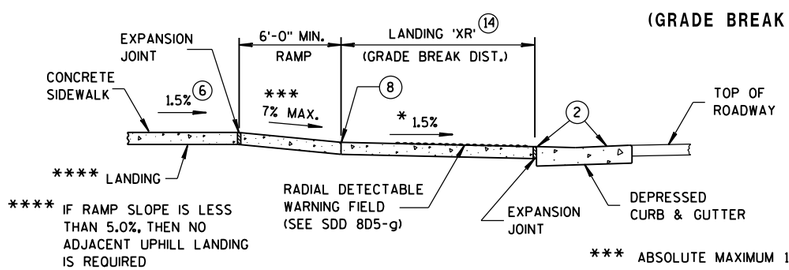
**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION B-B FOR TYPE 4A1



CURB RAMP TYPE 4B1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

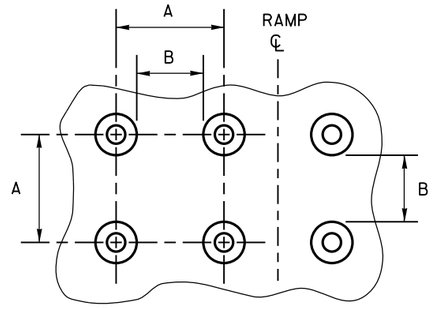
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

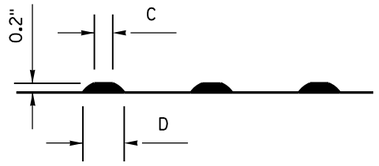
S.D.D. 8 D 5-19f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES

DETECTABLE WARNING PATTERN DETAIL

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

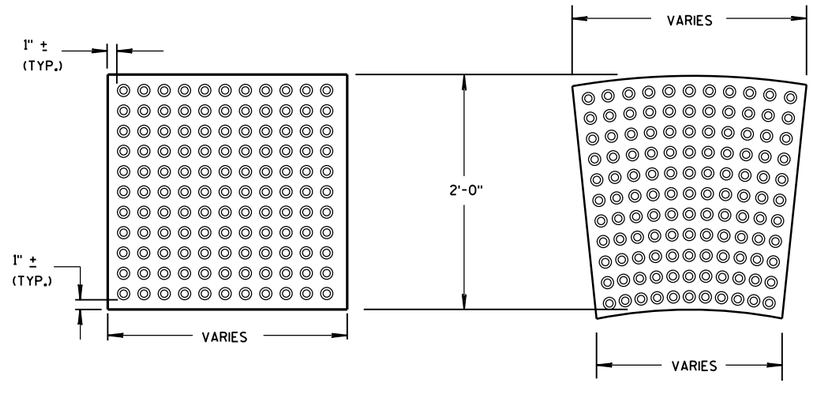
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

⑮ FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

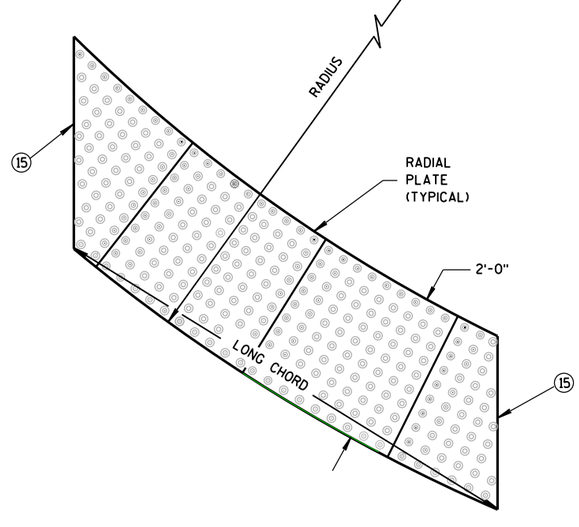


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

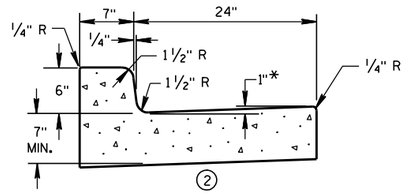
APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
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FHWA

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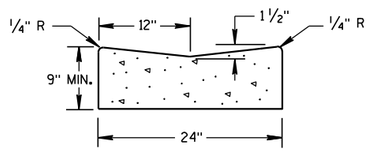
S.D.D. 8 D 5-19g

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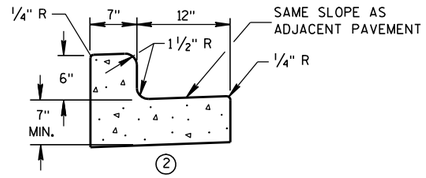
S.D.D. 8 D 5-19g



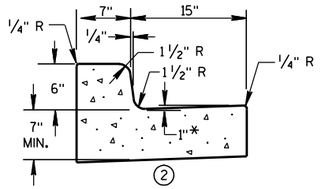
① CONCRETE CURB & GUTTER 31"



① CONCRETE GUTTER 24"

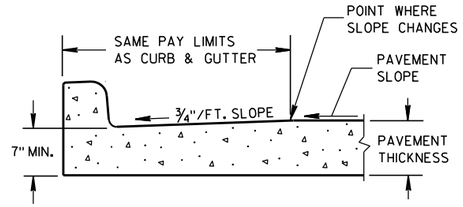


① CONCRETE CURB & GUTTER 19"



① CONCRETE CURB & GUTTER 22"

* TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

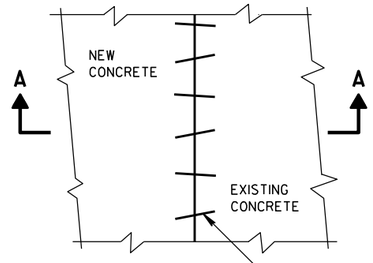
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURB.

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUIRED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

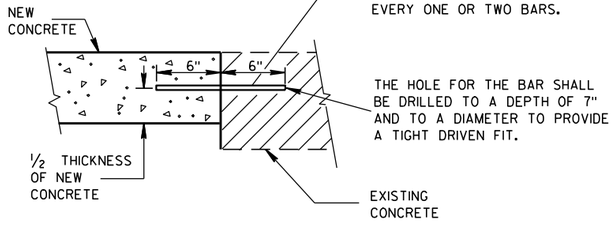
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MIMIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLAN.



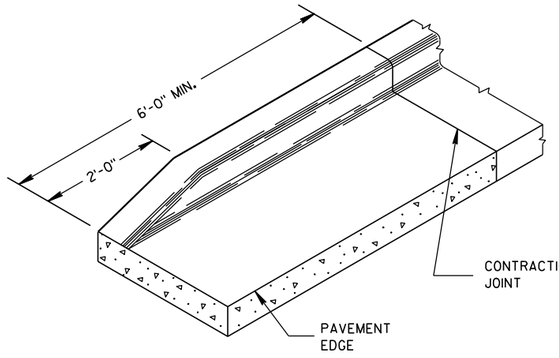
PLAN VIEW

EXISTING AND NEW CONCRETE MAY BE CURB & GUTTER, SURFACE DRAIN, PAVEMENT OR OTHER CONCRETE STRUCTURE.

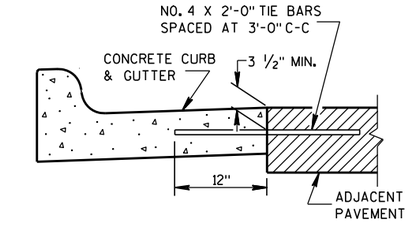


SECTION A-A

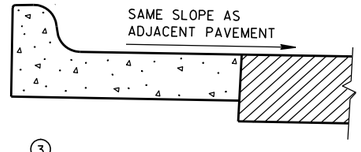
PAVEMENT TIES



END SECTION CURB & GUTTER



① TYPICAL TIE BAR LOCATION



③ HIGH SIDE SECTION

(TYPICAL FOR ALL CURB & GUTTER)

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional Use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/2/2010 — DATE

/S/ Jerry Zogg — ROADWAY STANDARDS ENGINEER

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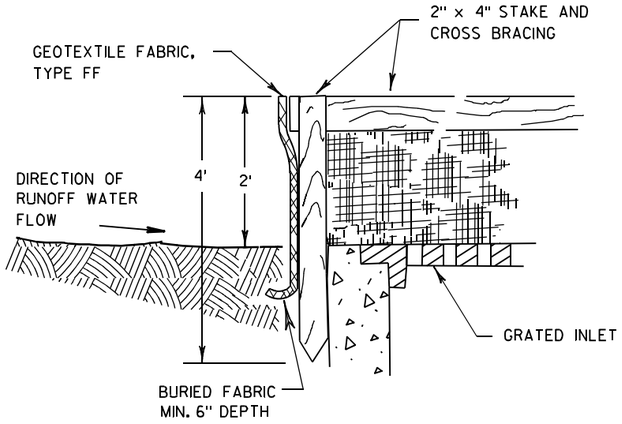
FHWA

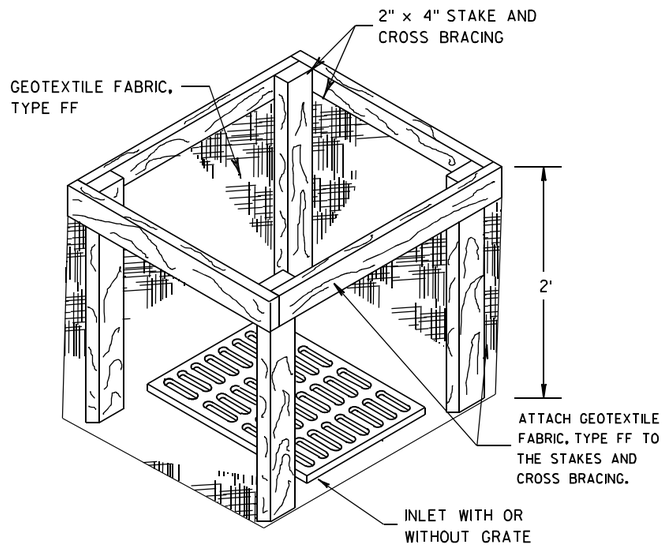
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S.D.D. 8 D 16-10

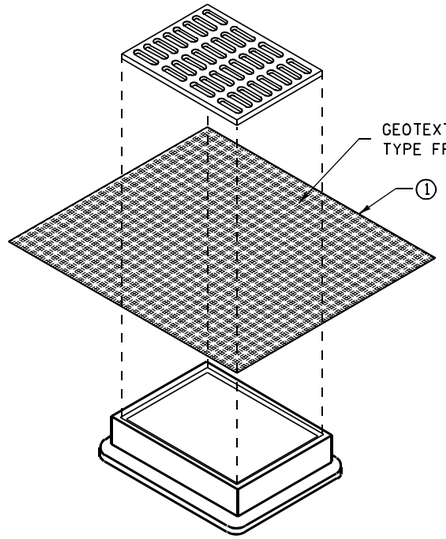
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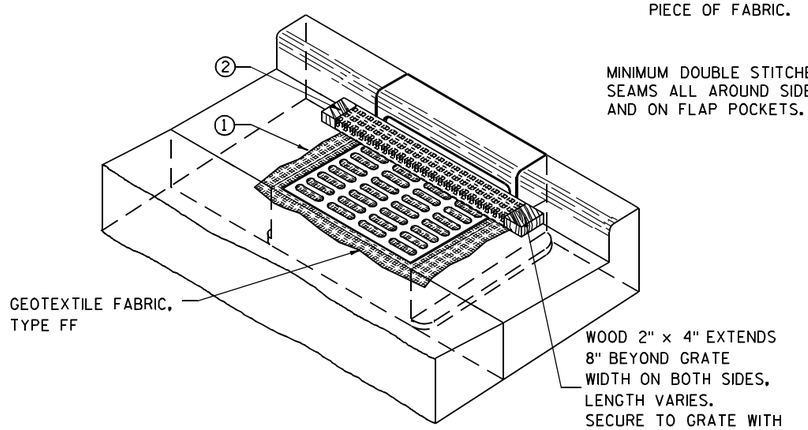


INLET PROTECTION, TYPE A

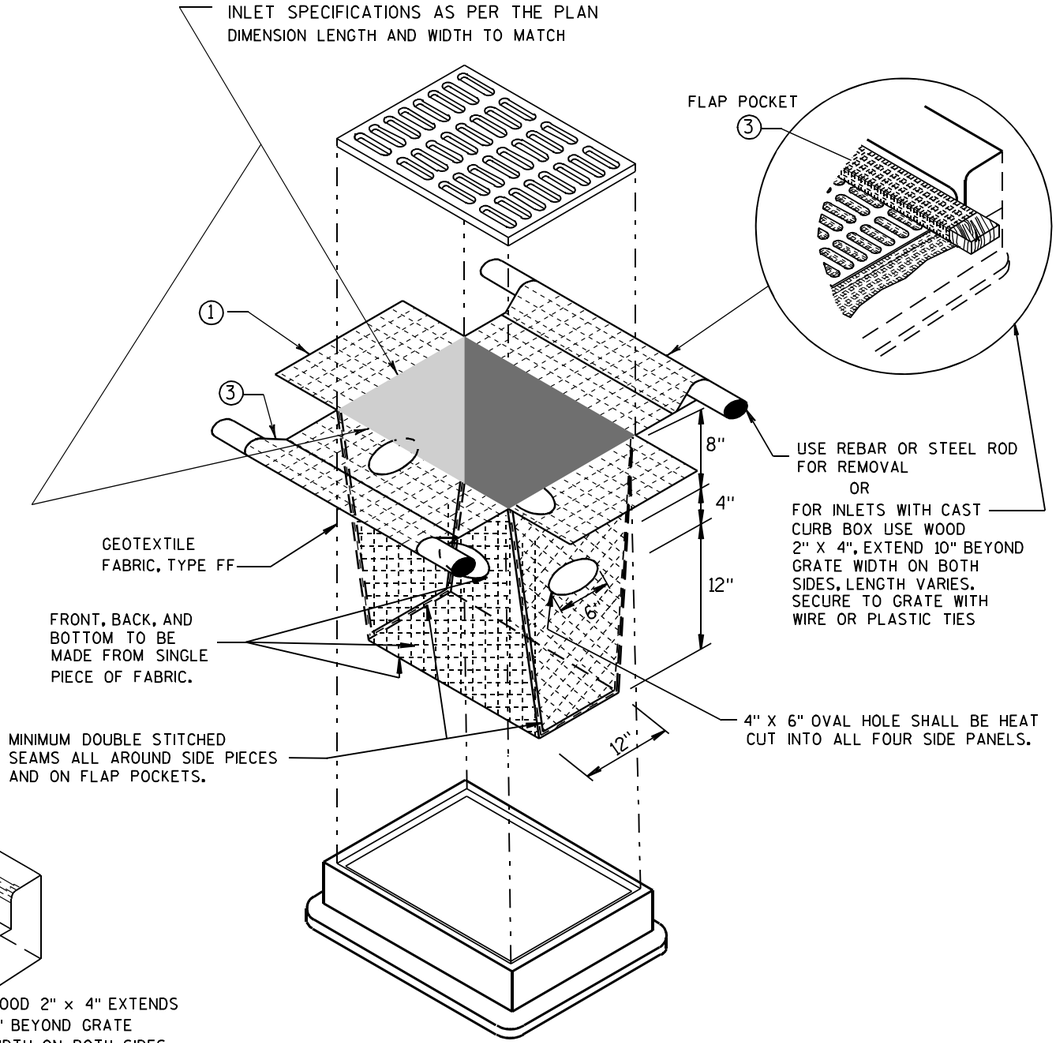


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

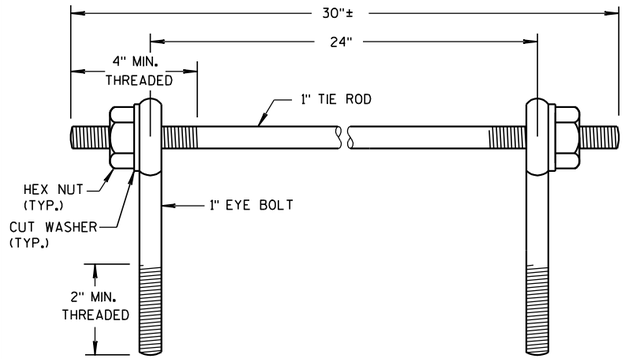
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

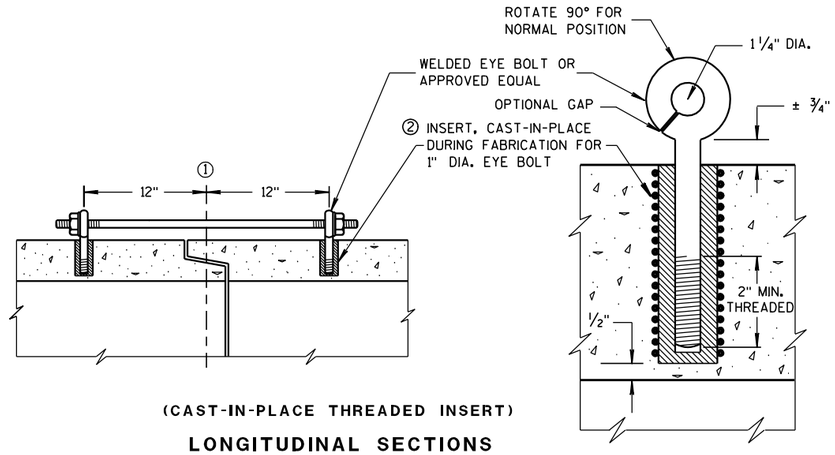
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

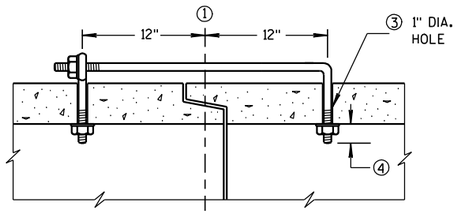
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

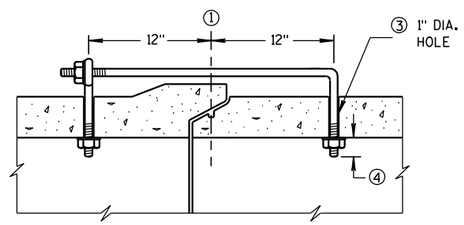
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

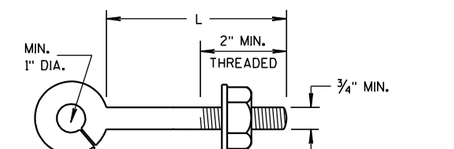


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

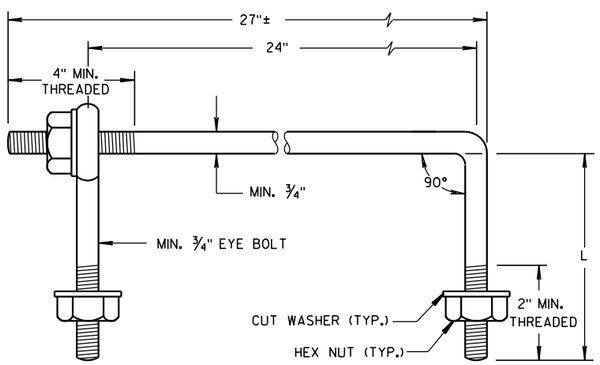
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

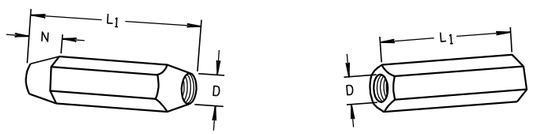
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

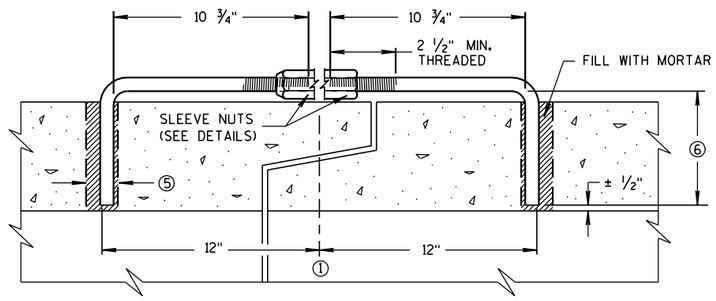
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

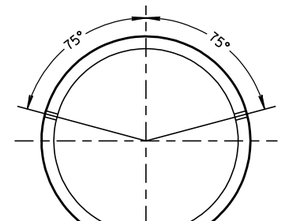
SLEEVE NUTS



LONGITUDINAL SECTION

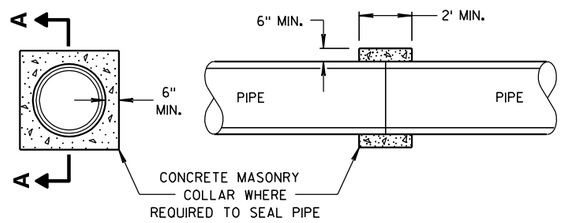
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

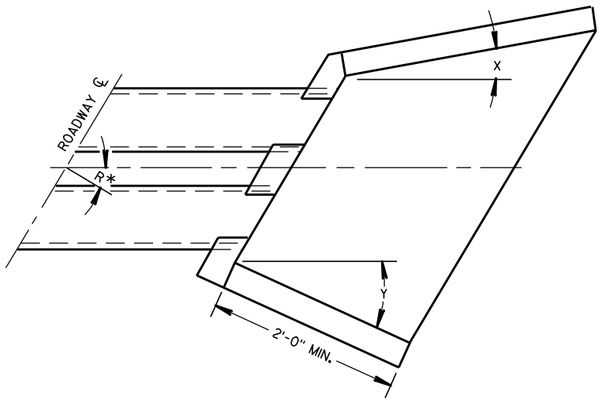
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
297
FHWA

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S.D.D. 8 F 4-7

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S.D.D. 8 F 4-7



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

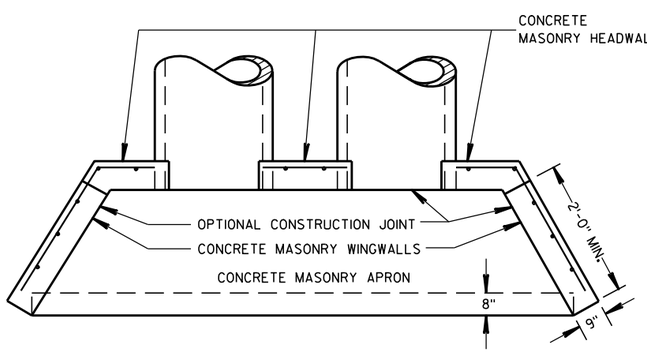
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

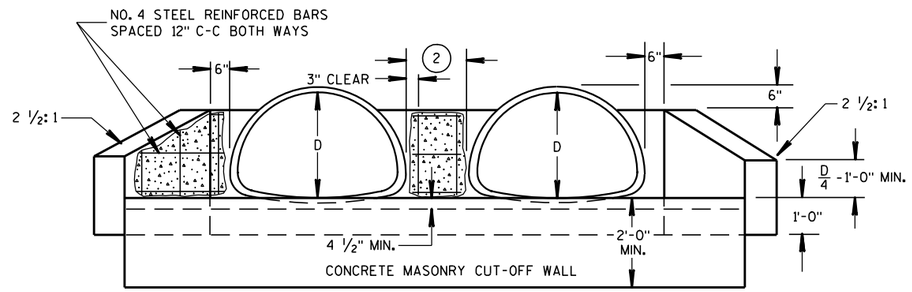
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



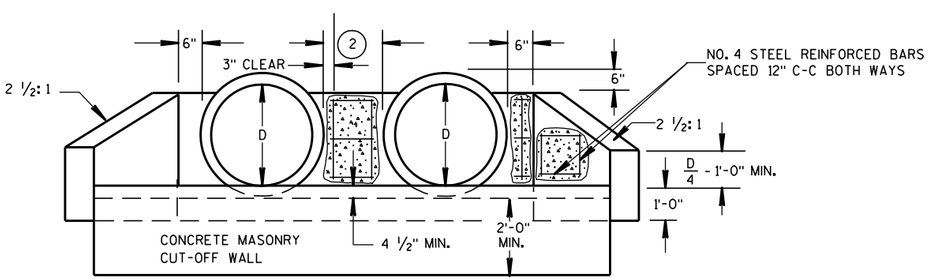
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



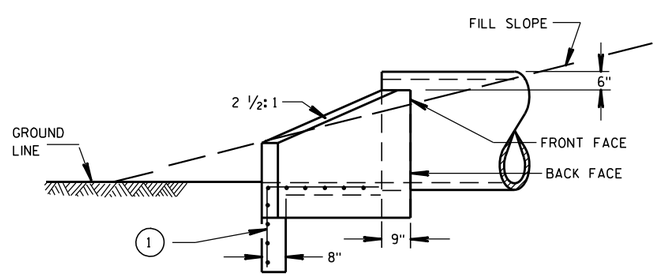
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/14/98 DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

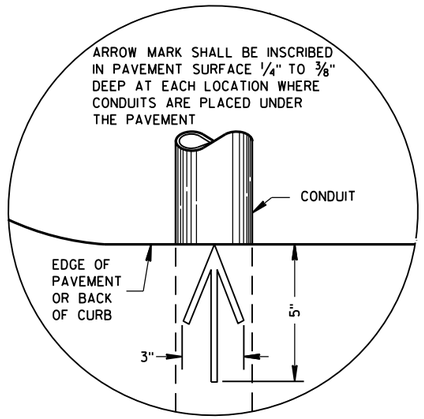
FHWA

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S.D.D. 8 F 10-1

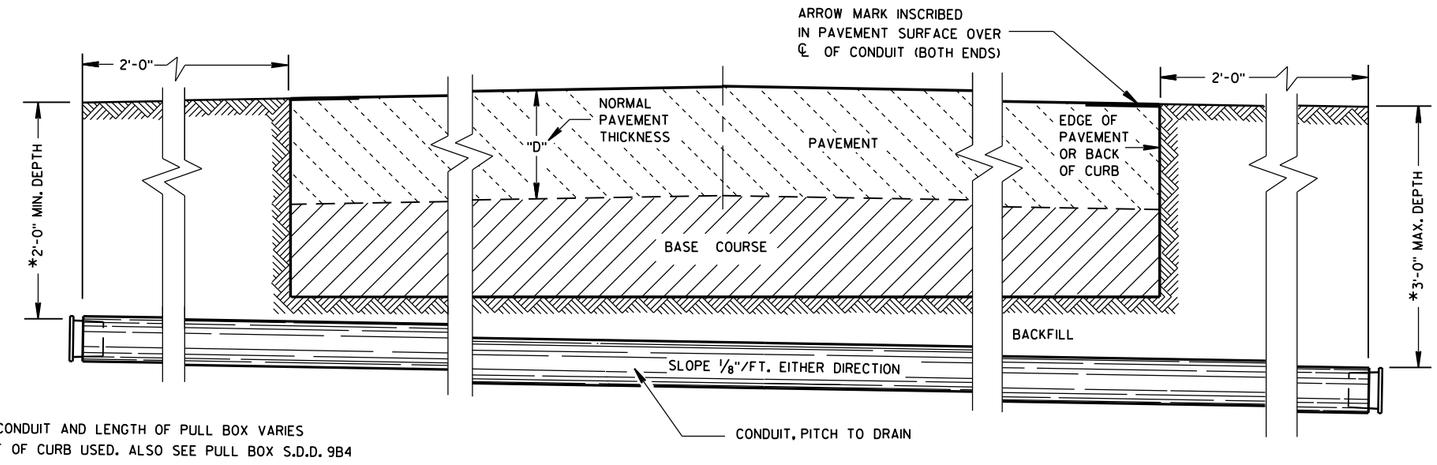
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S.D.D. 8 F 10-1



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 299
FHWA

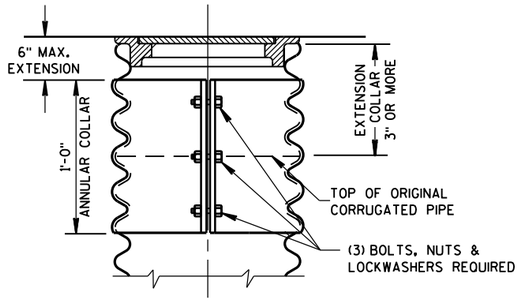
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S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

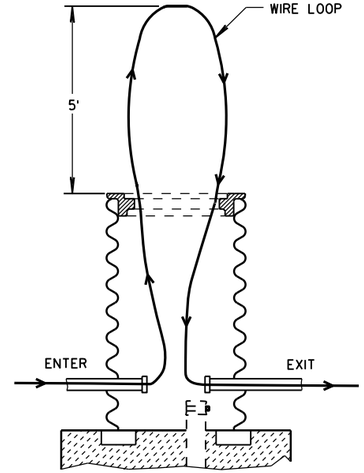
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

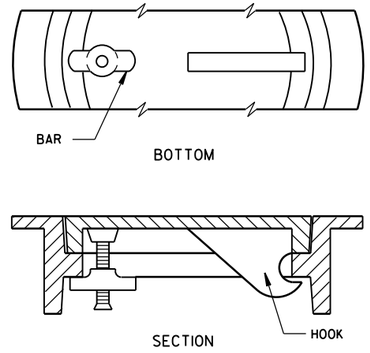
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

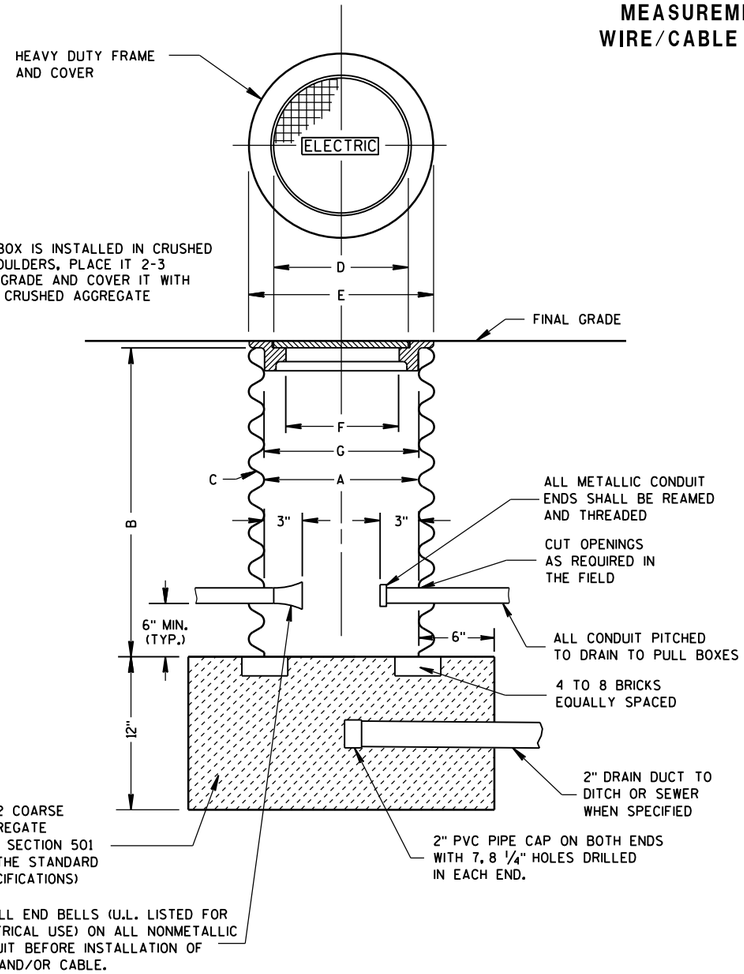


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



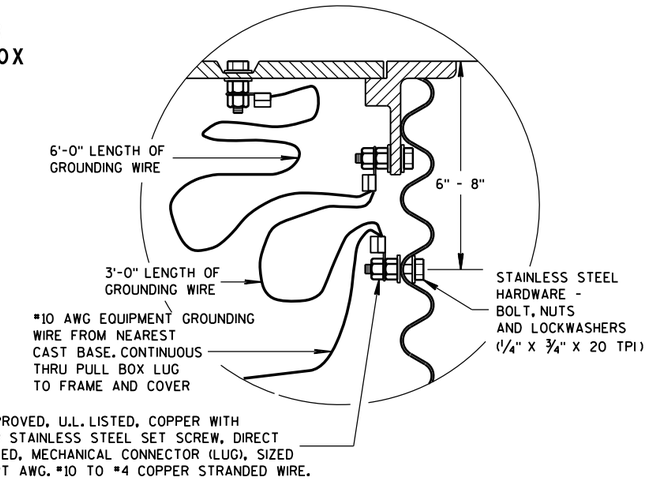
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

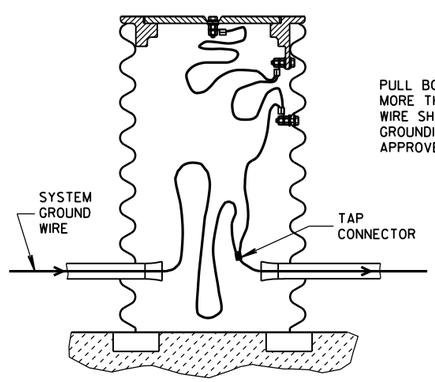
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

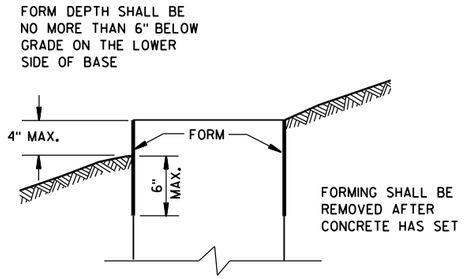
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S.D.D. 9 B 4-11



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

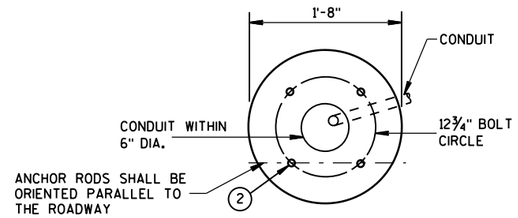
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

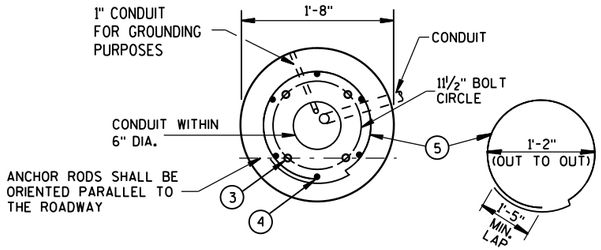
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

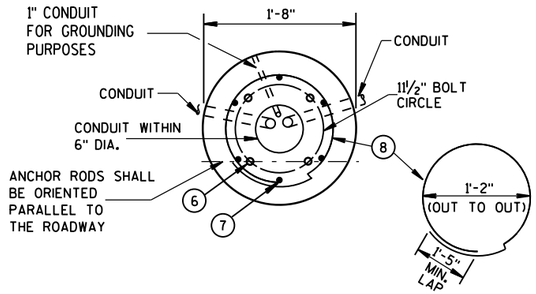
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

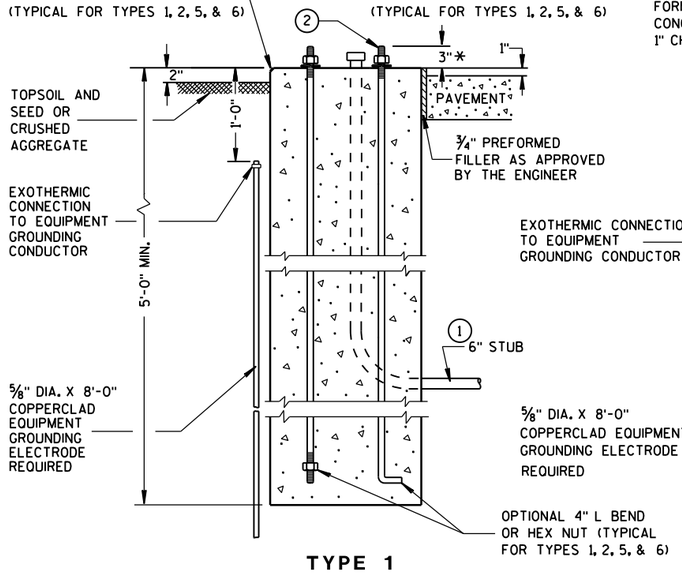




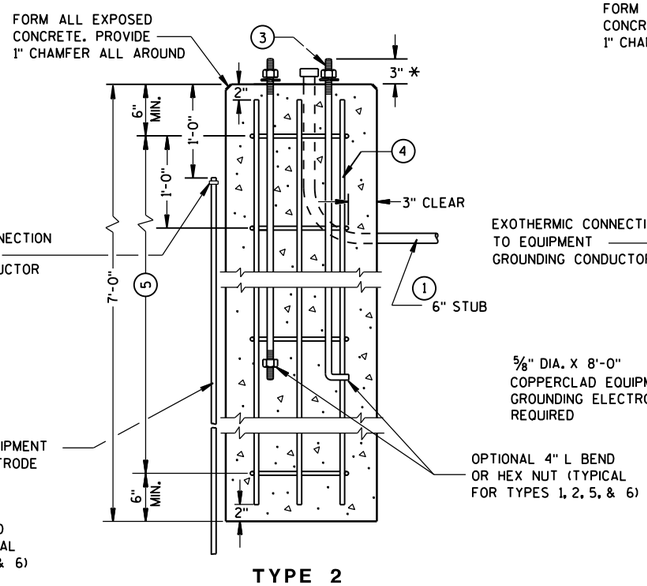


HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5, & 6)

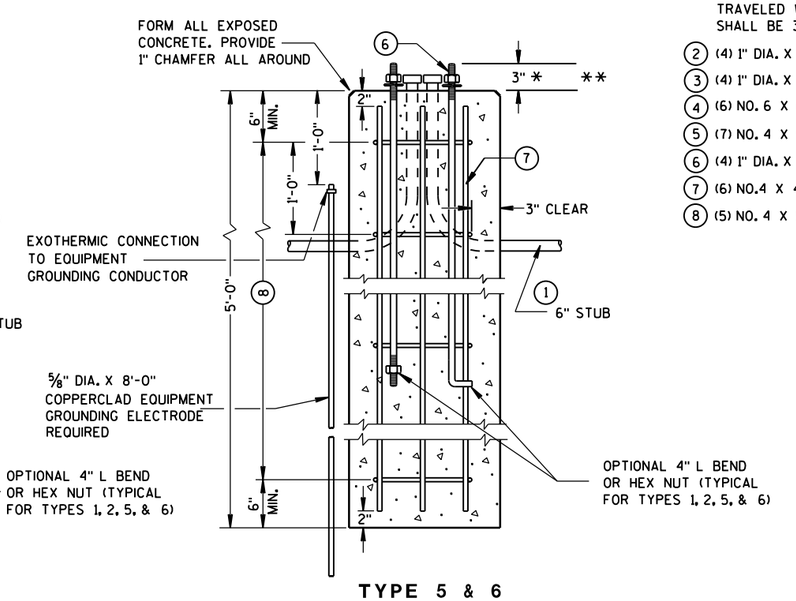
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5, & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 301
FHWA

6
S.D.D. 9 C 2-7

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

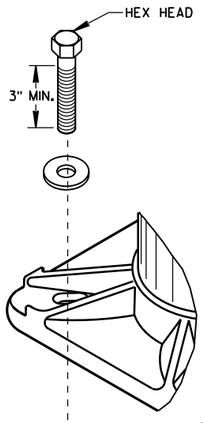
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

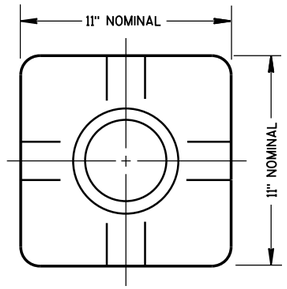
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

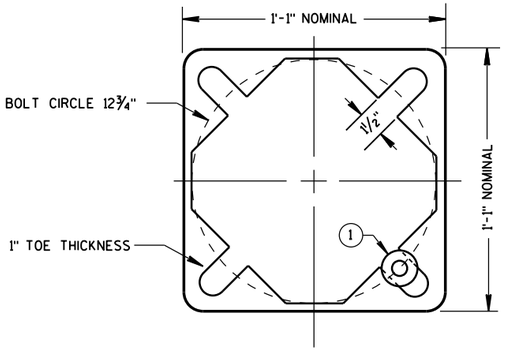
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

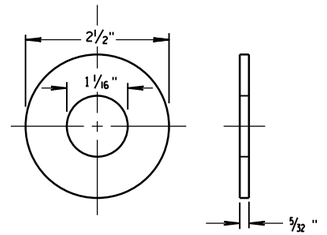




TOP VIEW
(PEDESTAL BASE)

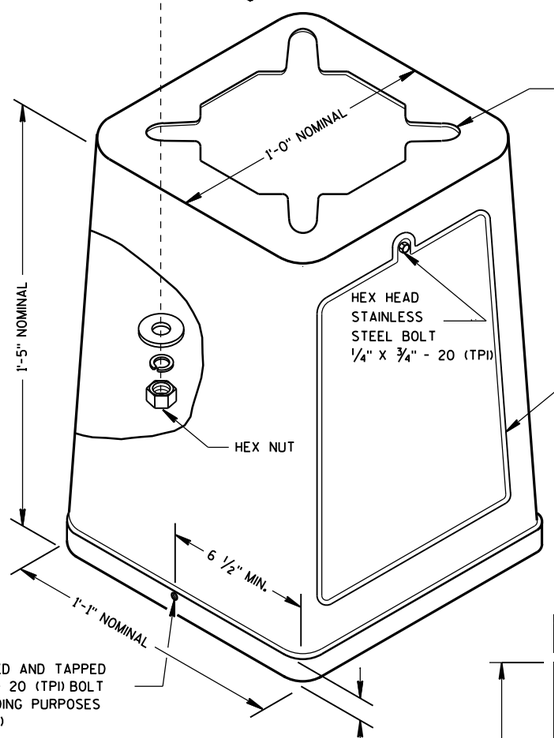


BOTTOM VIEW
(PEDESTAL BASE)

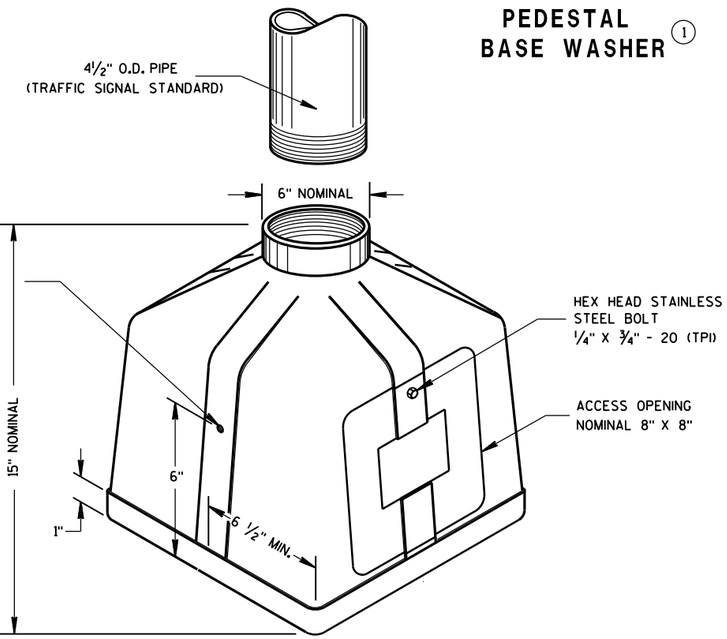


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

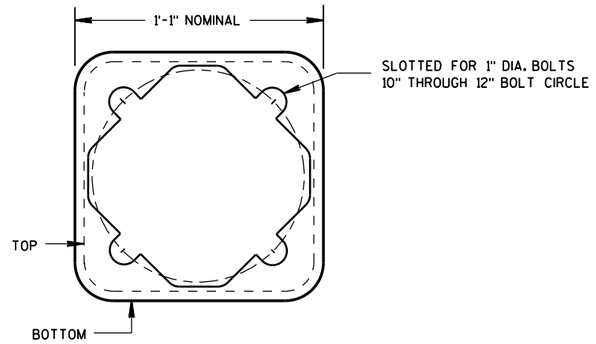


ISOMETRIC VIEW

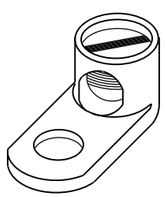


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

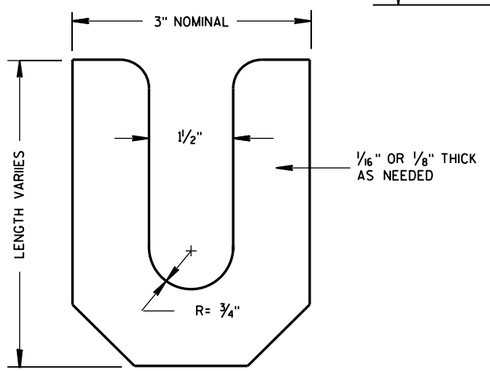


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 3-4

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S.D.D. 9 C 3-4

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

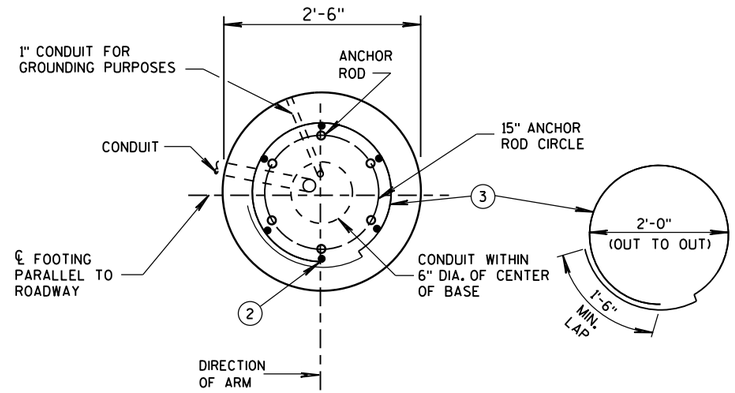
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

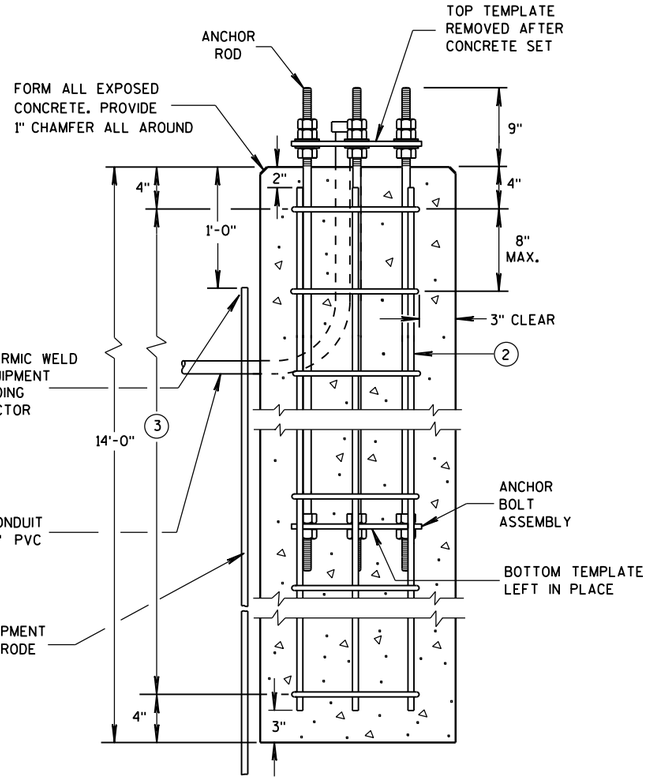
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.

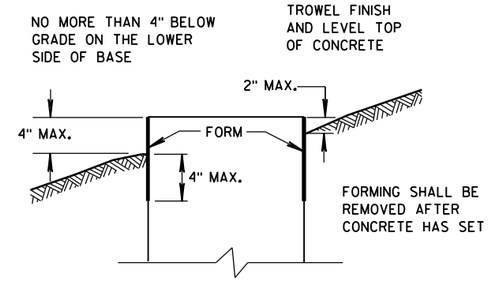




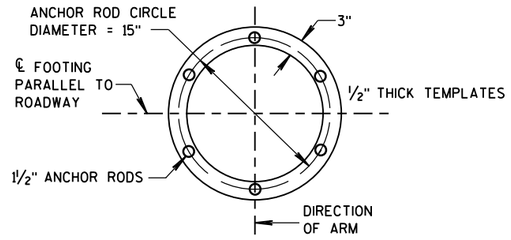
CONCRETE BASE TYPE 10

(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

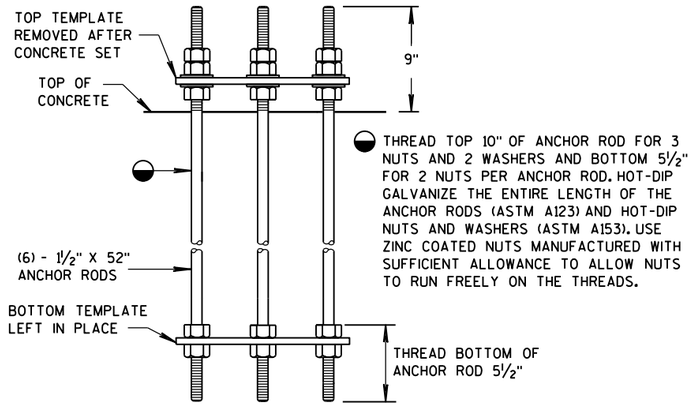
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122

CONCRETE BASE TYPE 10

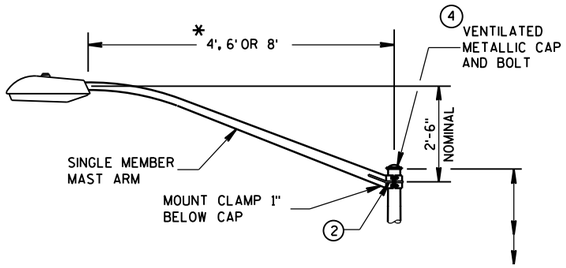
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

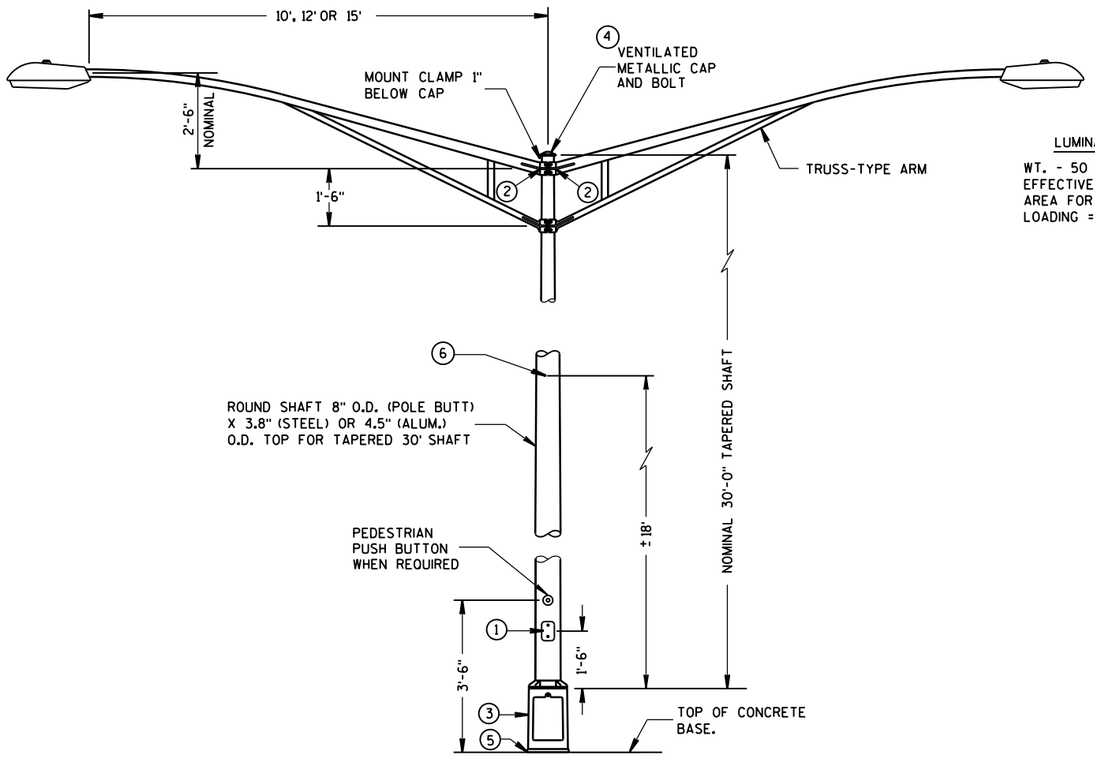
APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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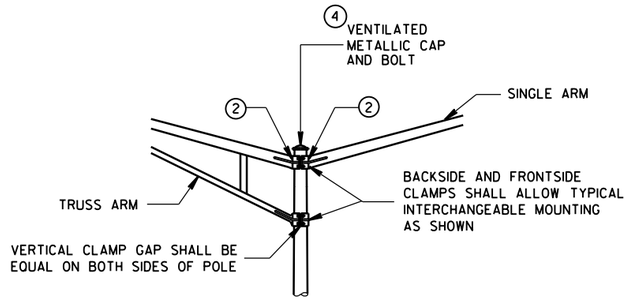
S.D.D. 9 C 11-10

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

6

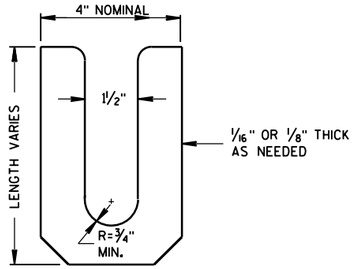
S.D.D. 9 E 1-14d

POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

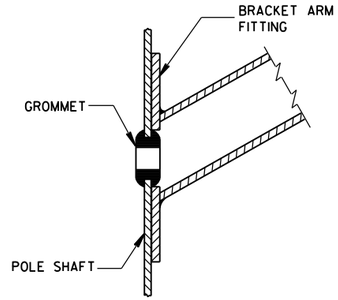
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S.D.D. 9 E 1-14d

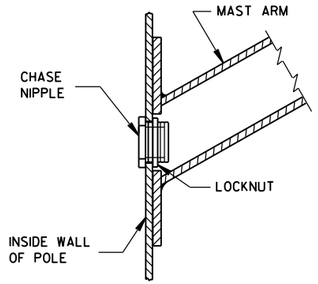


LEVELING SHIM (13)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

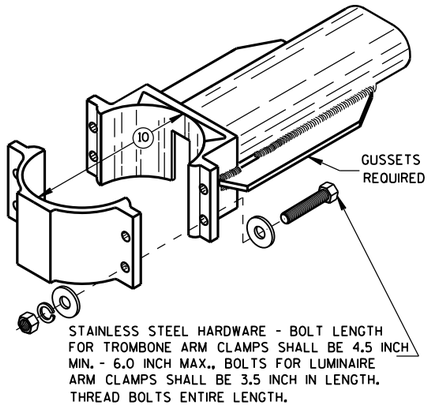
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

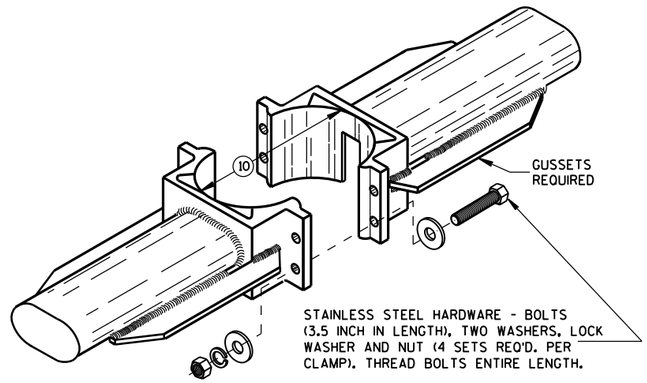
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

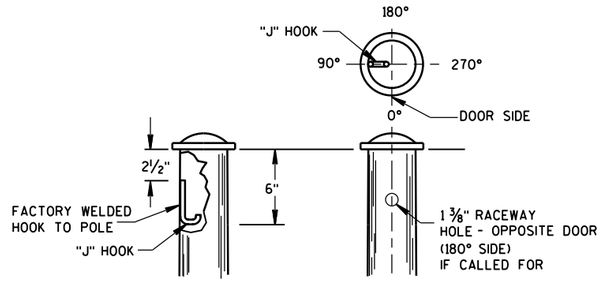
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



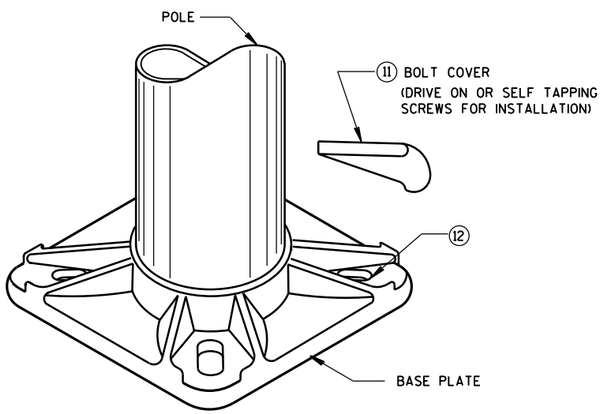
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



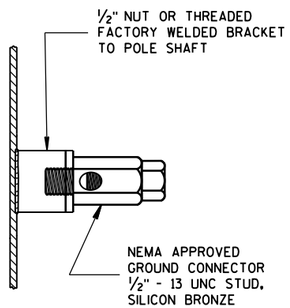
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

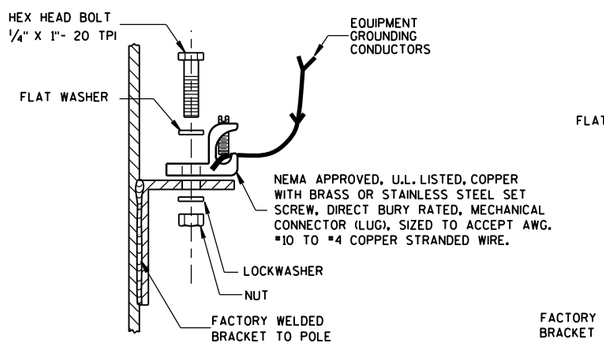


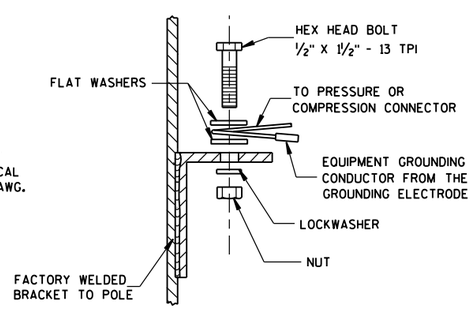
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

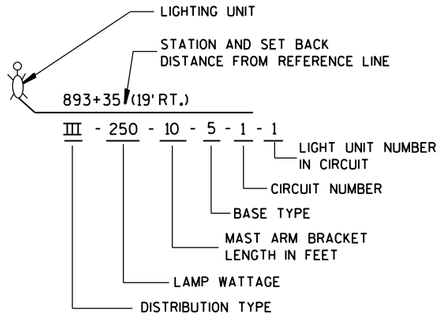
HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

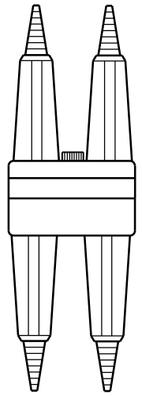
APPROVED
Feb. 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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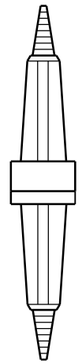
S.D.D. 9 E 1-14g



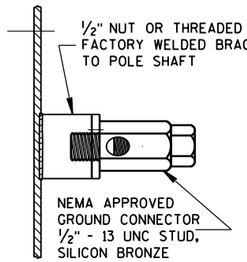
LIGHTING UNIT CODE
(TYPICAL)

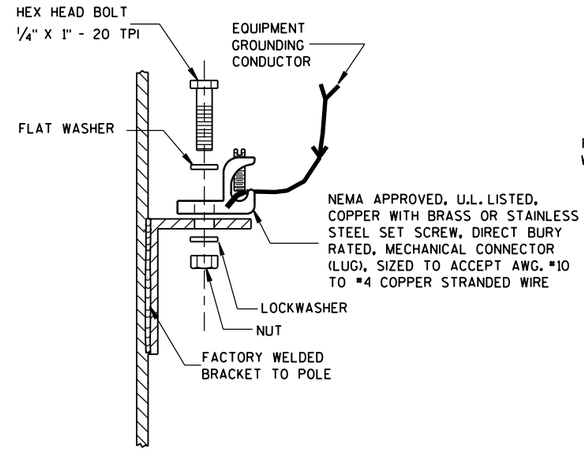


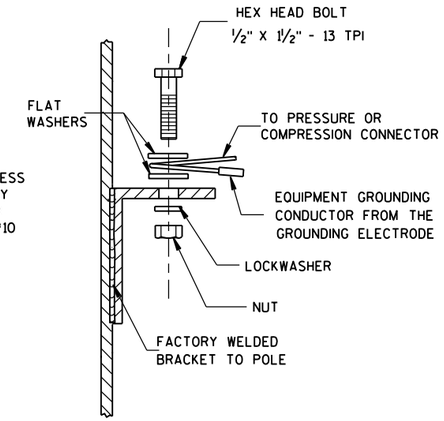
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



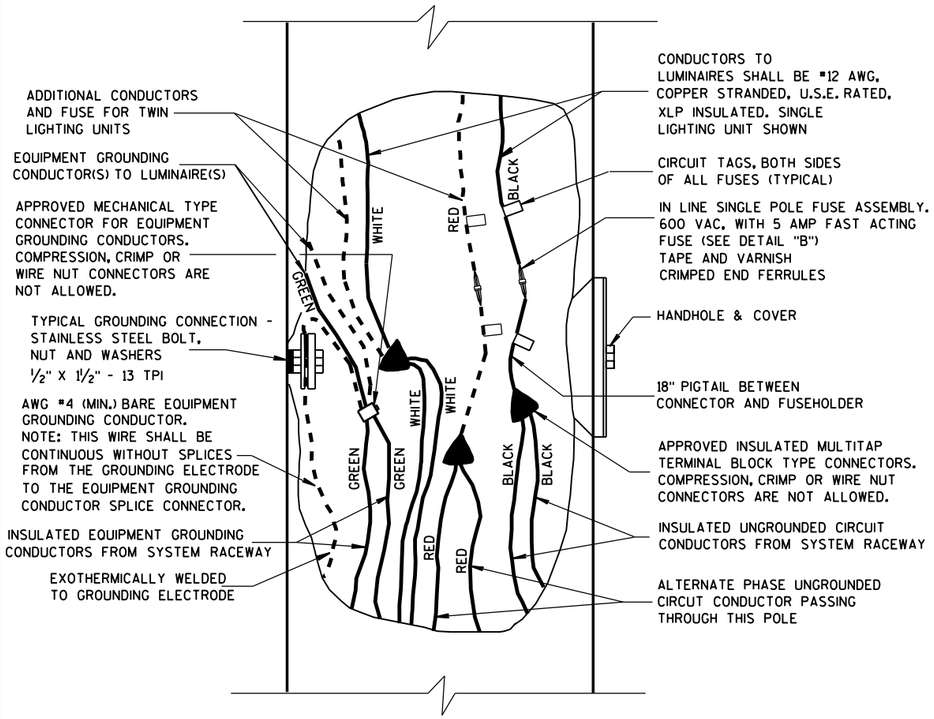
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



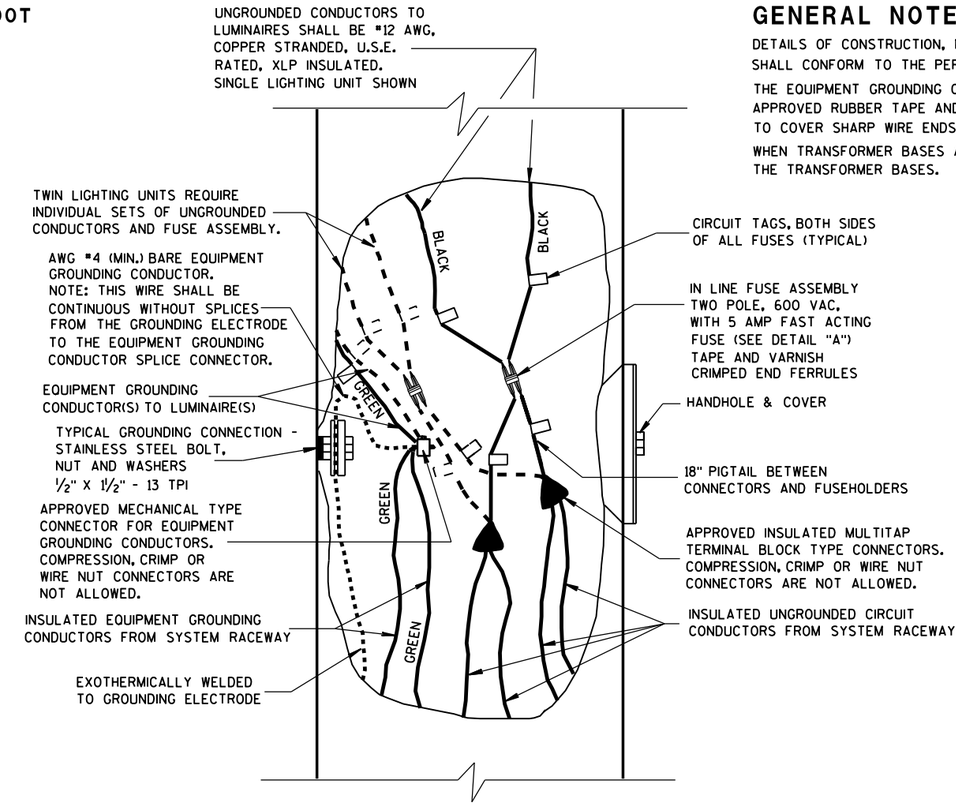




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

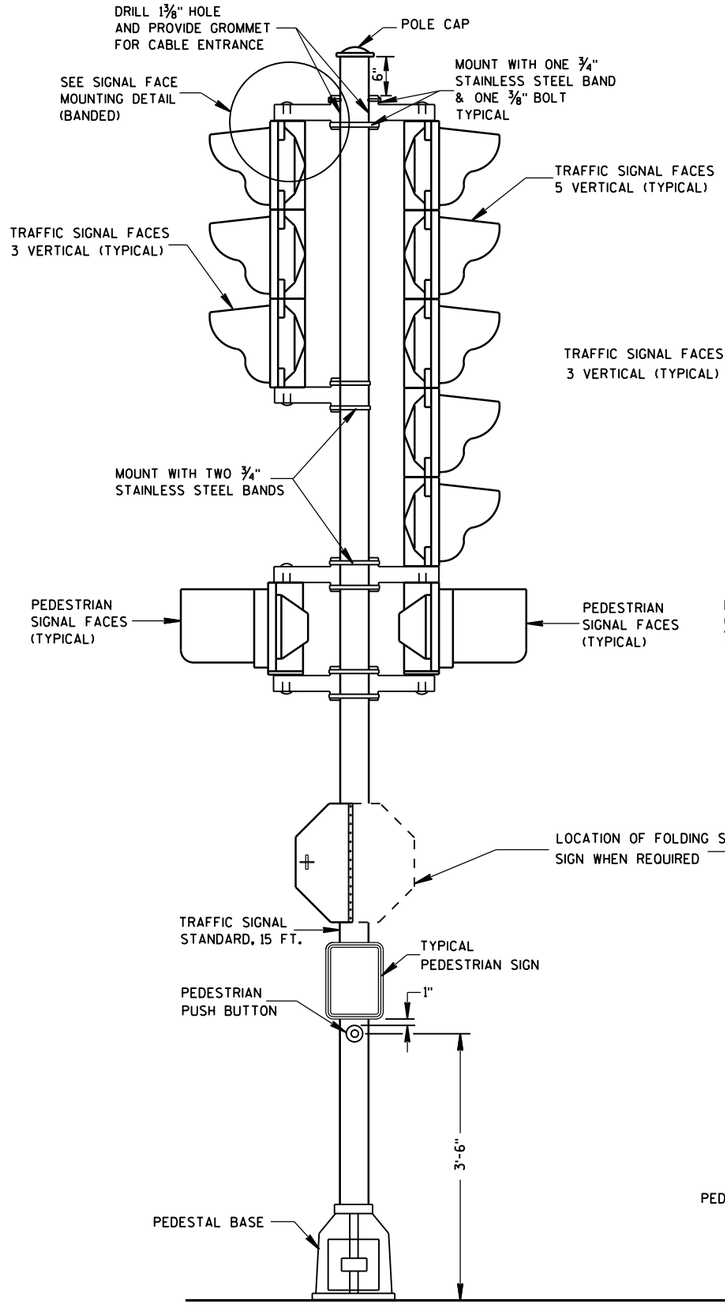
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

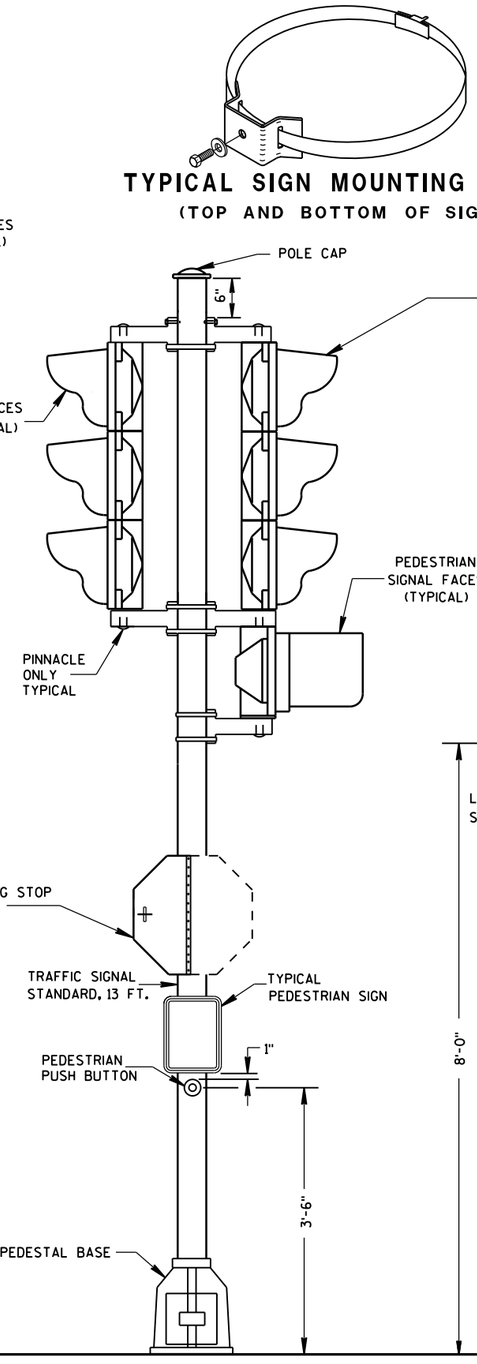
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S.D.D. 9 E 3-5

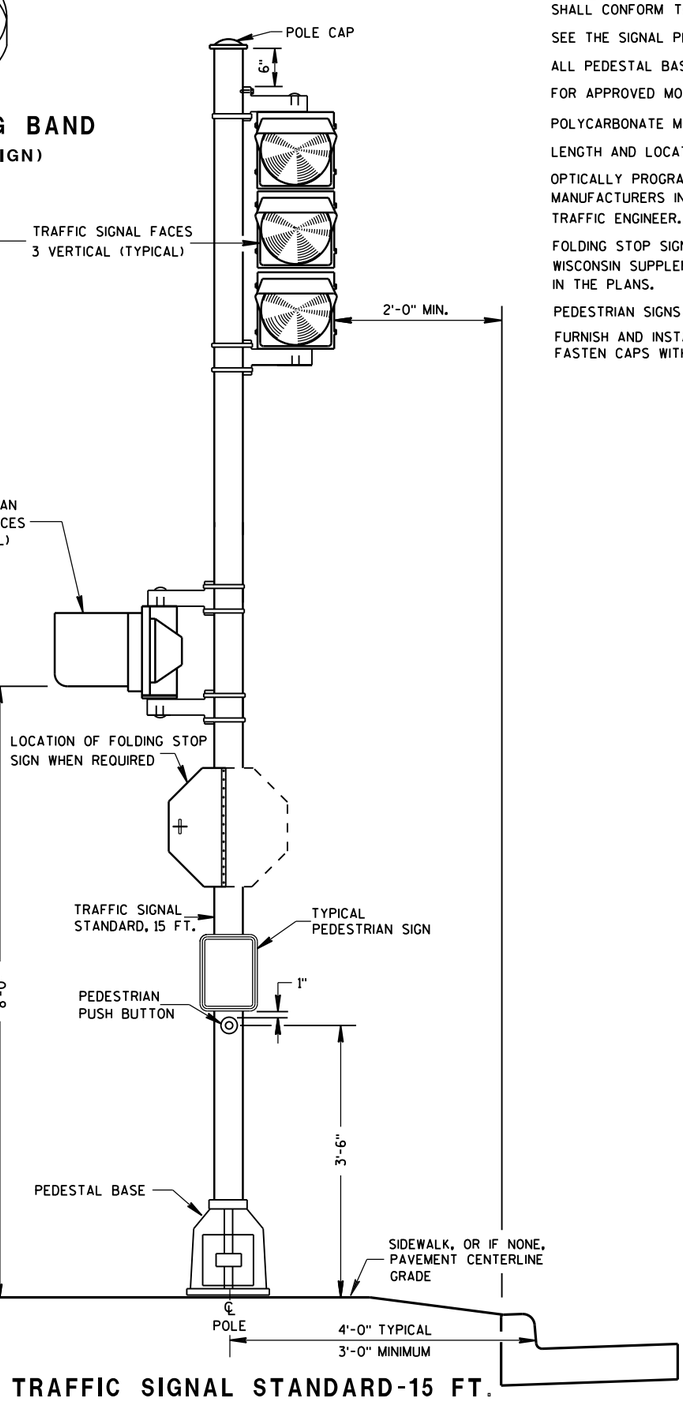


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

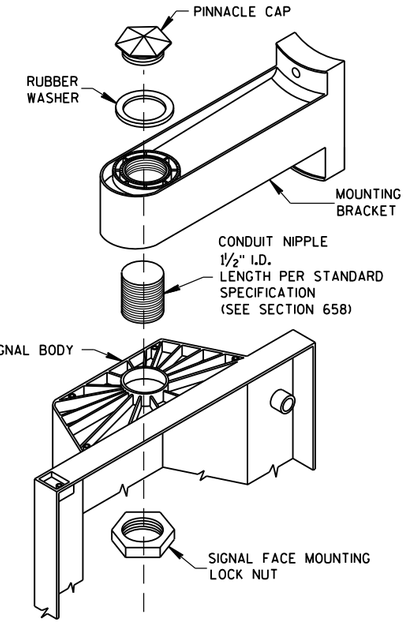
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

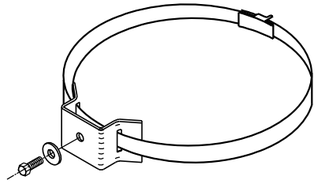
TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

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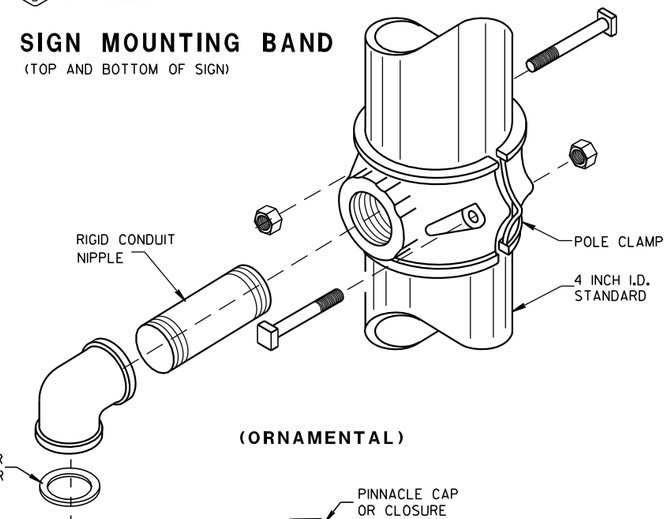
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2/28/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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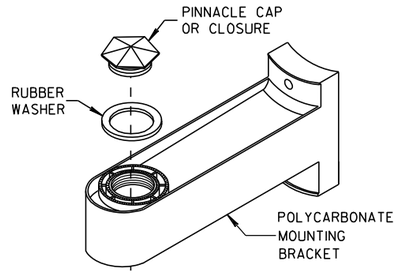
S.D.D. 9 E 6-5



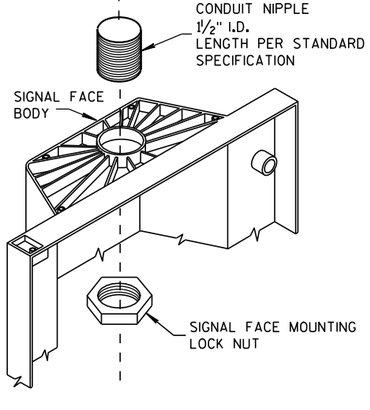
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



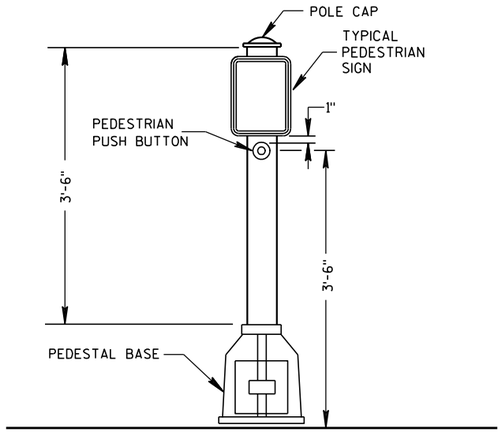
(ORNAMENTAL)



(BANDED)



SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

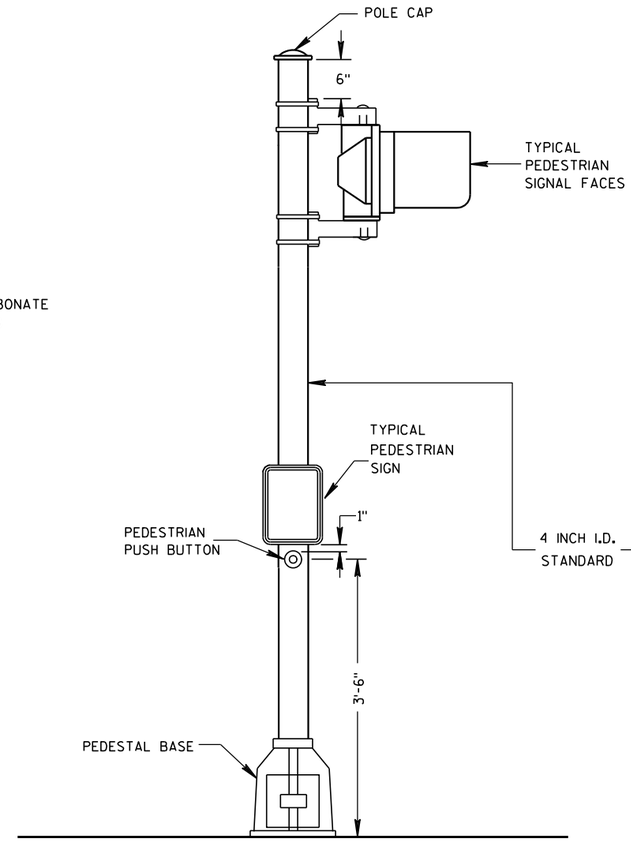
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

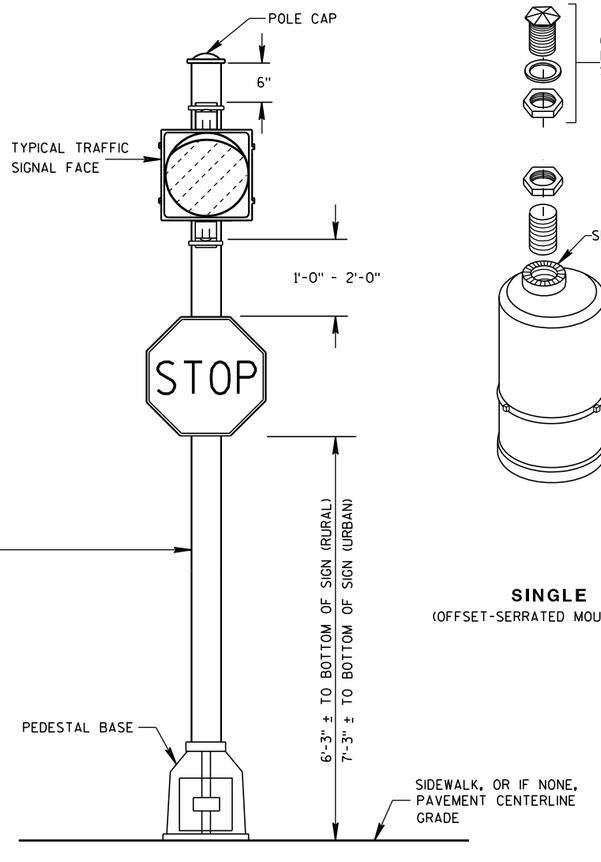
MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

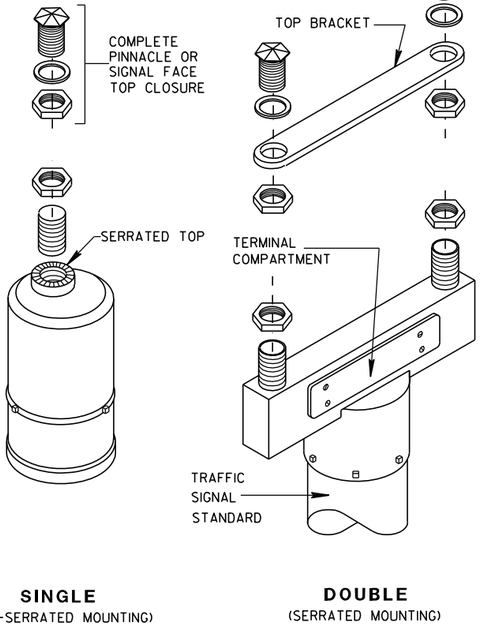
FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/11/10
DATE

/S/ John Corbin
STATE ELECTRICAL ENGI

FHWA

HWYS

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S.D.D. 9 E 7-5

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30'-0" MAX.

8'-0" *

15'-0" MAX.

SEE ARM CONNECTION DETAIL

SIGN 18" X 108"

**

* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

25'-6" MAXIMUM MOUNTING HEIGHT

17'-6" MINIMUM MOUNTING HEIGHT

ROADWAY PAVEMENT

R4-7
24" x 30"

19'-0"

10'-0"

FOLDING STOP SIGN
30" x 30"

POLE: (.14"/FT. TAPER)
1 PIECE (NO WELDED POLE SECTIONS)
POLE BUTT DIA. = 11.50"

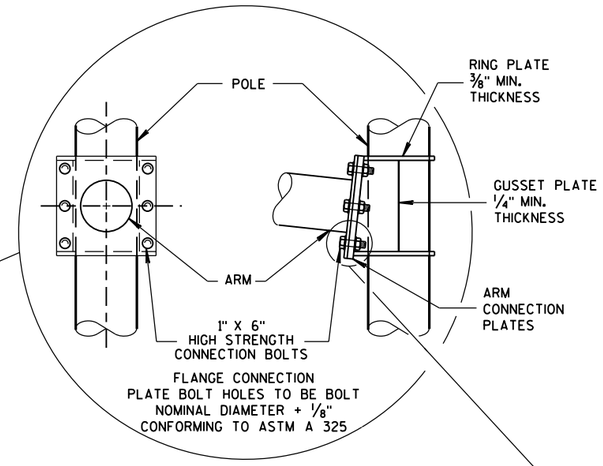
PEDESTRIAN PUSH BUTTON

TYPICAL PEDESTRIAN SIGN

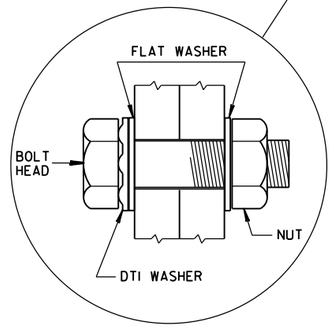
ANCHOR RODS:
FY=55 KSI
ASTM F1554 GR 55
ROD CIRCLE = 15"
ANCHOR ROD DIAM. 1½"
GALVANIZED. (6 ANCHOR RODS)

3'-6"

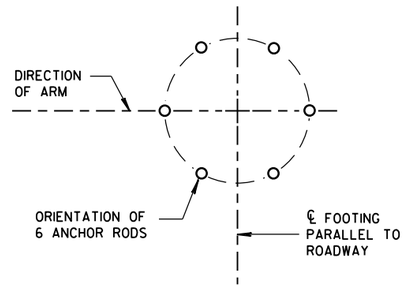
MAXIMUM BASE PLATE THICKNESS = 2½"



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL



ANCHOR ROD LOCATION

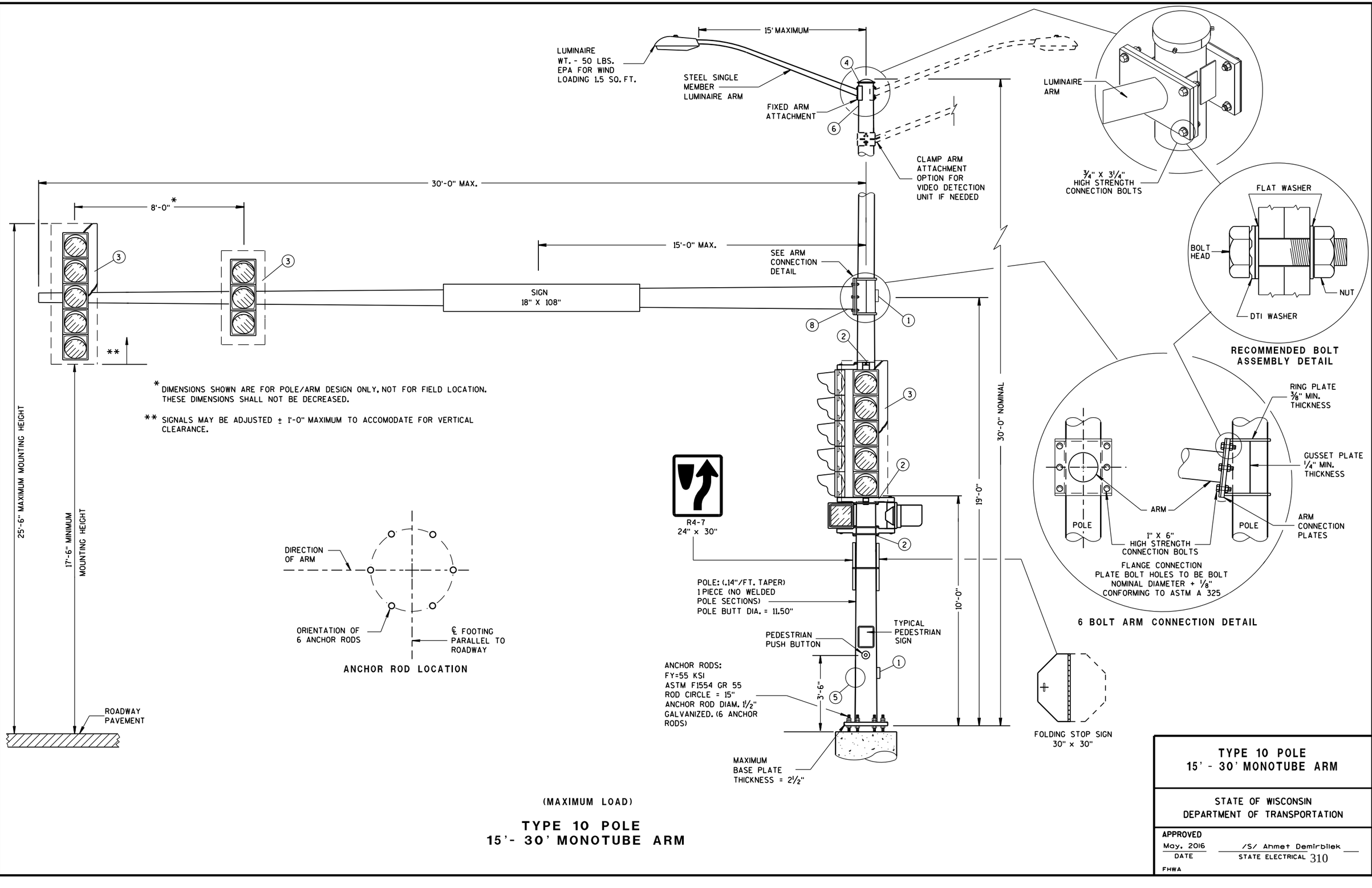
(MAXIMUM LOAD)

TYPE 9 POLE 15'- 30' MONOTUBE ARM

TYPE 9 POLE 15' - 30' MONOTUBE ARM	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
May, 2016 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL
FHWA	

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S.D.D. 9 E 8-8a



(MAXIMUM LOAD)

TYPE 10 POLE
15'- 30' MONOTUBE ARM

TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May, 2016
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

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S.D.D. 9 E 8-8b

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO 2013 6TH EDITION AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

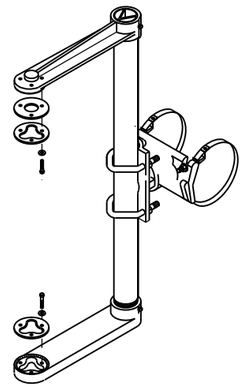
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

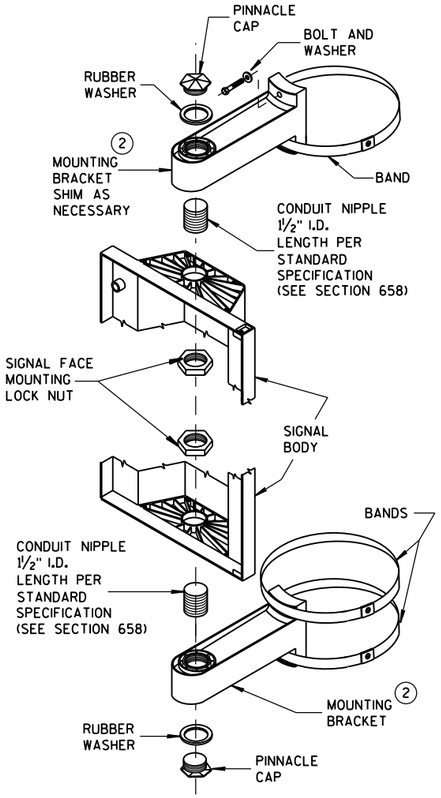
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

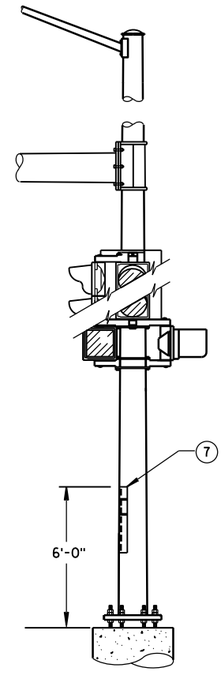


SIGNAL FACE MOUNTING BRACKET
DETAIL FOR MONOTUBE ARM

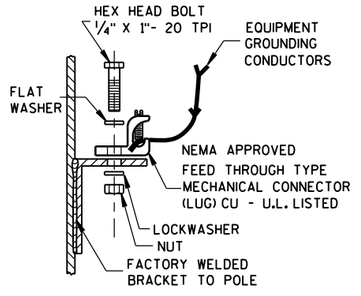
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE
VERTICAL MOUNTING DETAIL

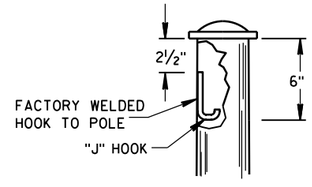


STRUCTURAL IDENTIFICATION
PLAQUE PLACEMENT



TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL
BE STAINLESS STEEL



"J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

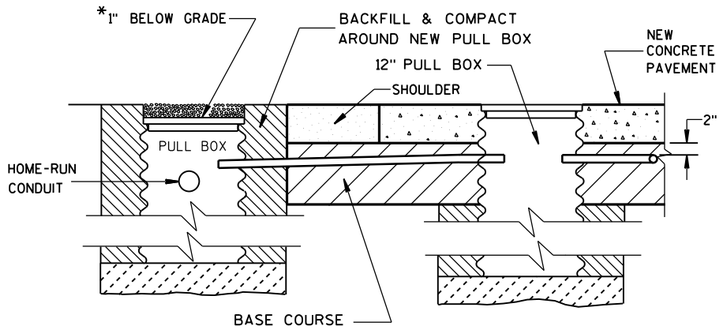
APPROVED
May 2016
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

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S.D.D. 9 E 8-8e



SECTION A-A

NO CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAILS

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

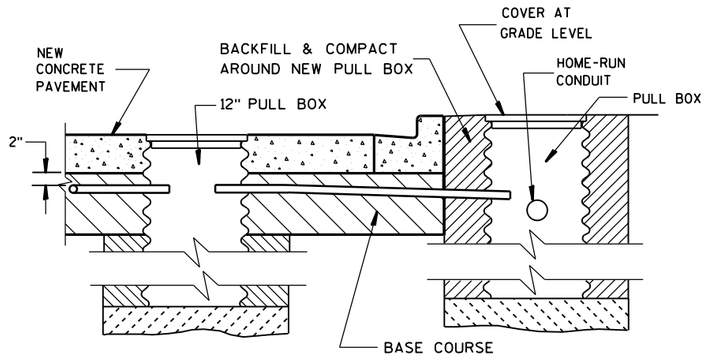
THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT, CONDULET AND PULL BOX SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE NEW CONCRETE PAVEMENT IS PLACED.

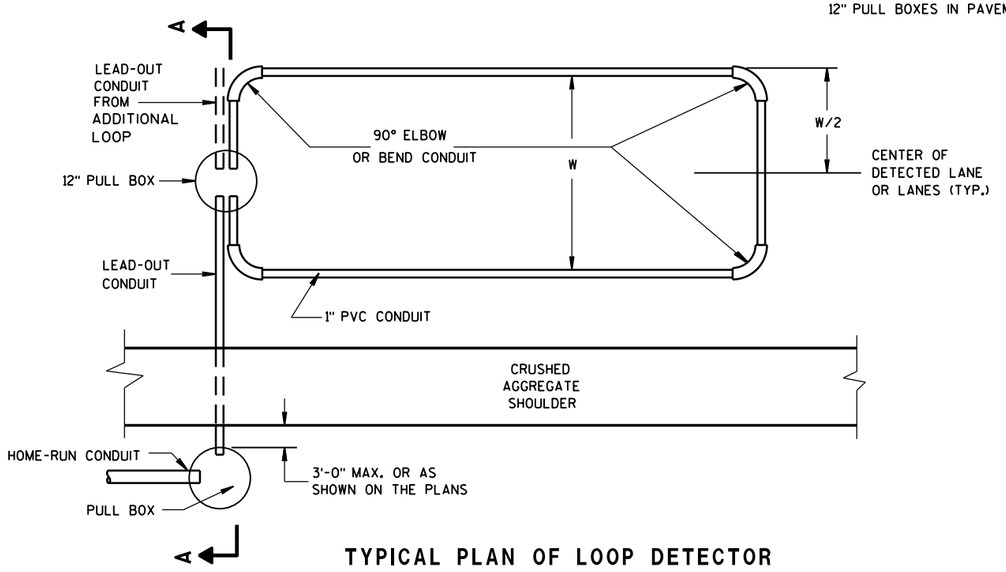
12" PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.



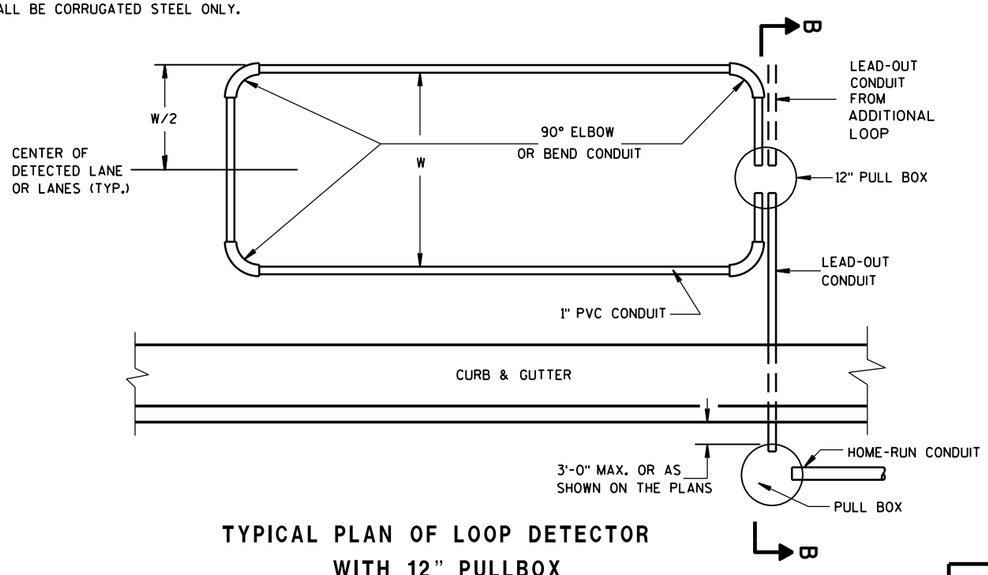
SECTION B-B

CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAILS



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2014 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

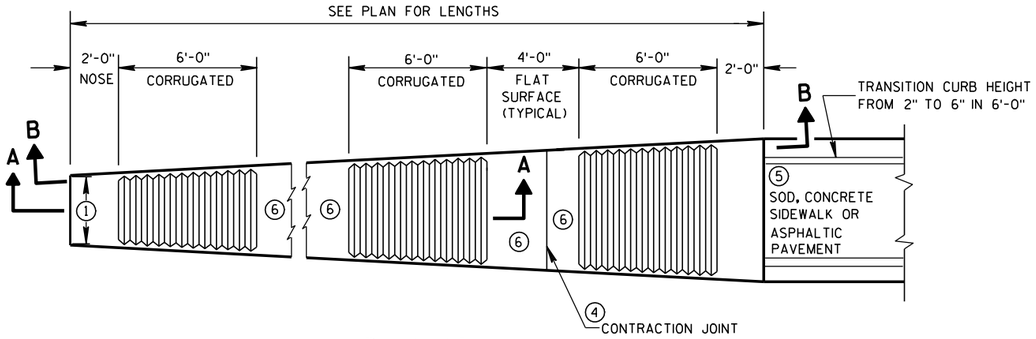
FHWA

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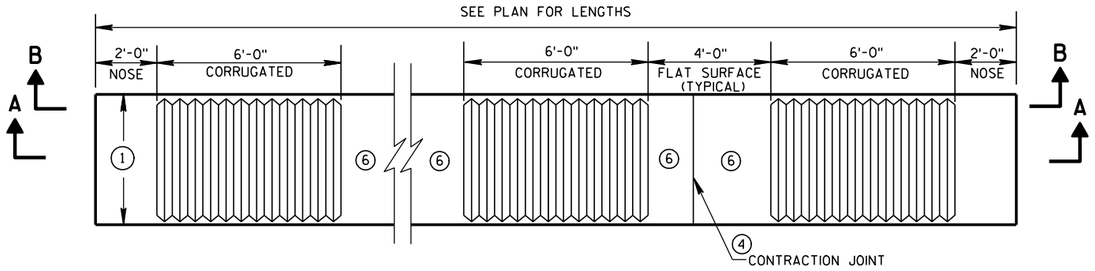
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S.D.D. 9 F 9-4



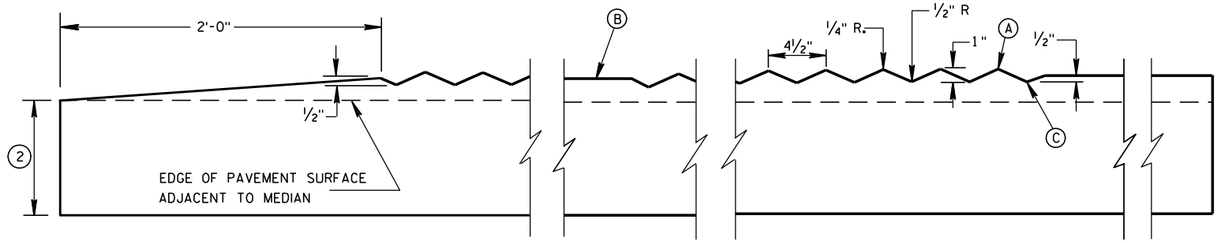
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



PLAN VIEW

UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A

LONGITUDINAL SECTION

GENERAL NOTES

(1) SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.

(2) THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN.

ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.

(3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.

(3) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

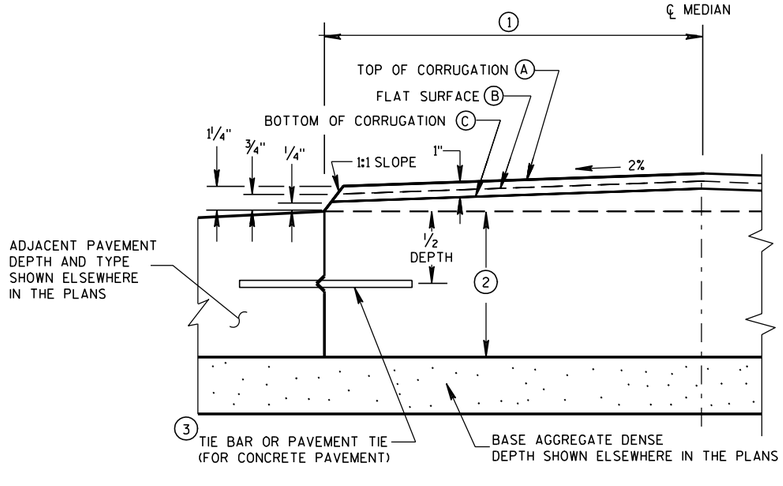
INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR CONCRETE BASE COURSE, PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(4) CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.

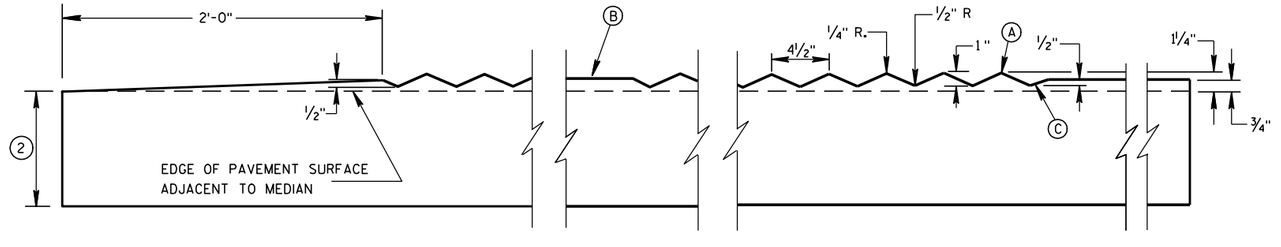
(5) SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

(6) YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION

(2) CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



SECTION B-B

LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

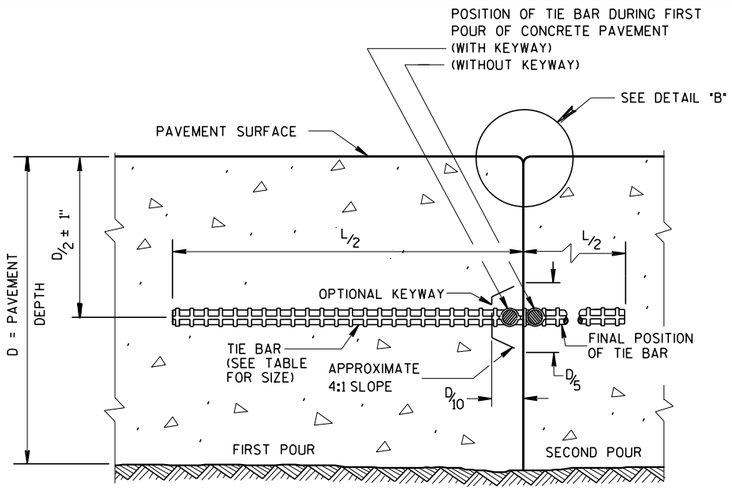
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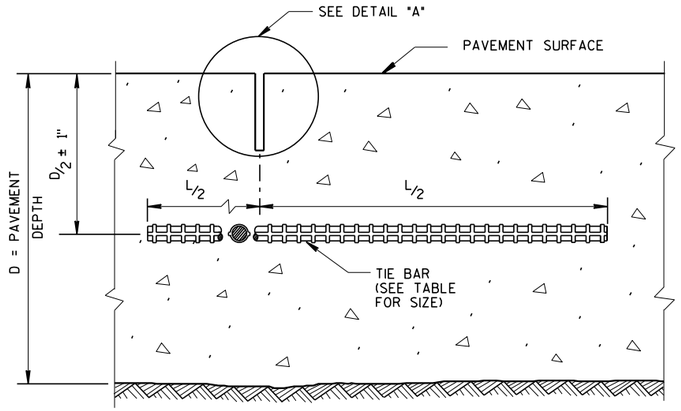
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CONSTRUCTION JOINT



SAWED JOINT

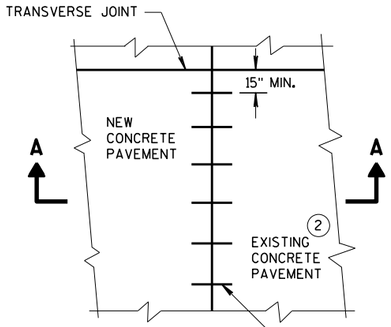
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

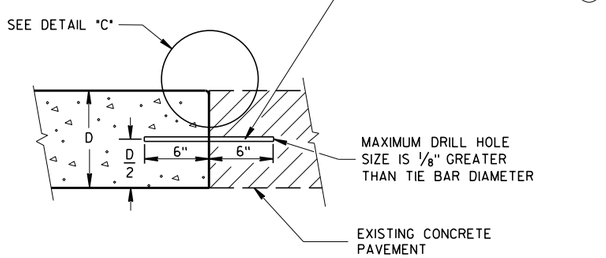
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

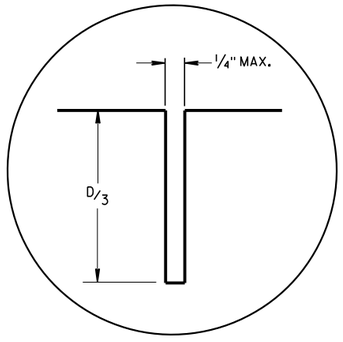


PLAN VIEW

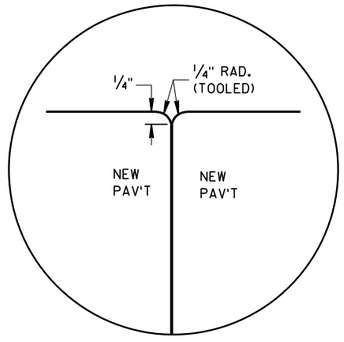


SECTION A-A

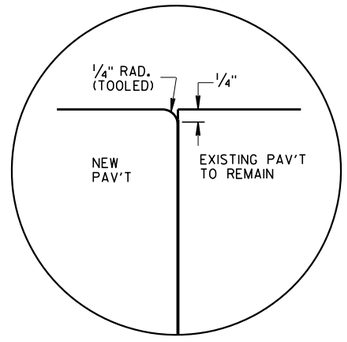
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



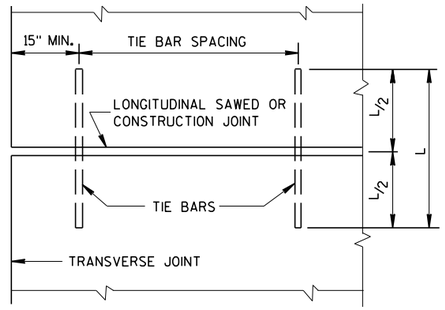
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



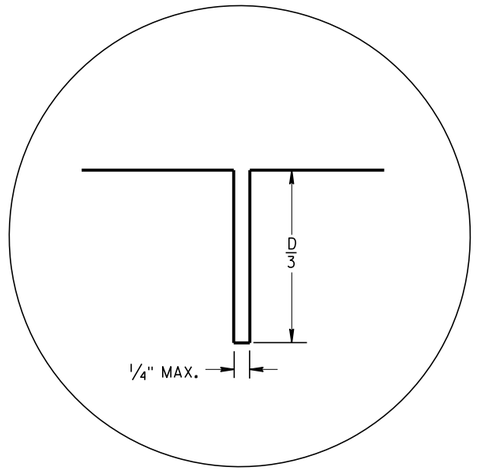
PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

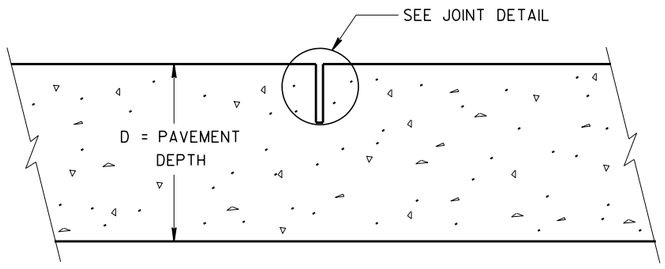
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

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S.D.D. 13 C 1-19



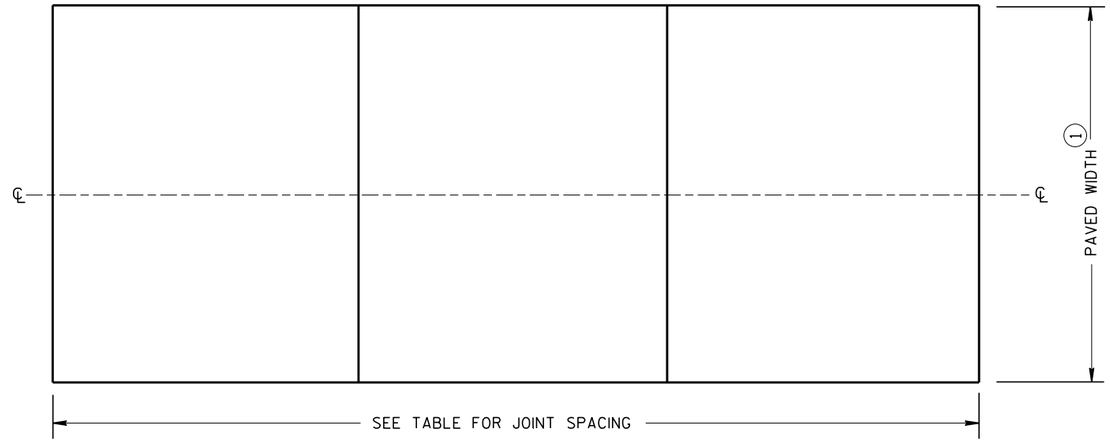
JOINT DETAIL



CONTRACTION JOINT

PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 1/2"	12'
7", 7 1/2"	14'
8" & ABOVE	15'



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE.

LOCATE AND ORIENT CONTRACTION JOINTS THROUGH INTERSECTIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

CONSTRUCTION JOINTS

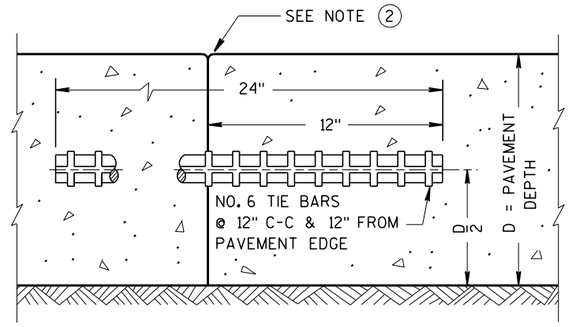
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

FORM OR SAW CONSTRUCTION JOINTS.

THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

(1) REFER TO TYPICAL CROSS SECTIONS FOR PAVED WIDTH AND LOCATION OF LONGITUDINAL JOINTS.

(2) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.



TIED TRANSVERSE CONSTRUCTION JOINT

URBAN
NON-DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

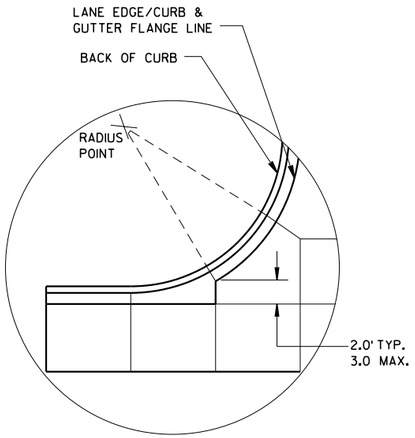
APPROVED
March 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPI

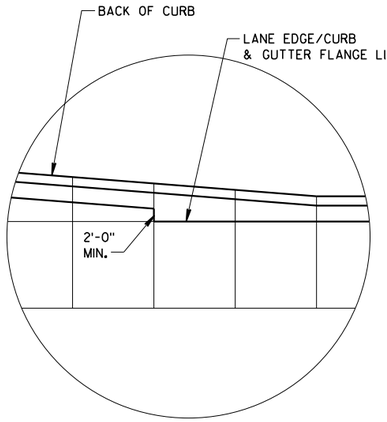
FHWA

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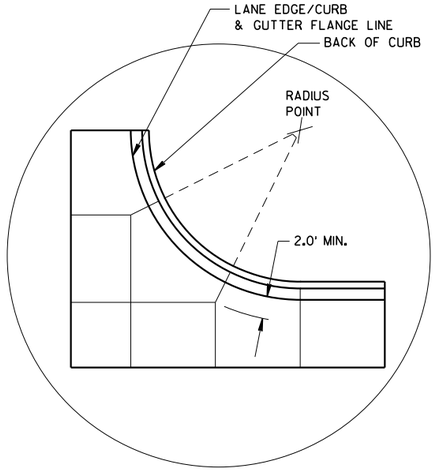
S.D.D. 13 C 4-17



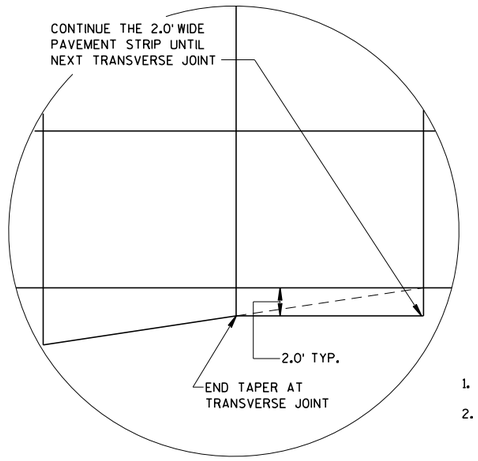
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

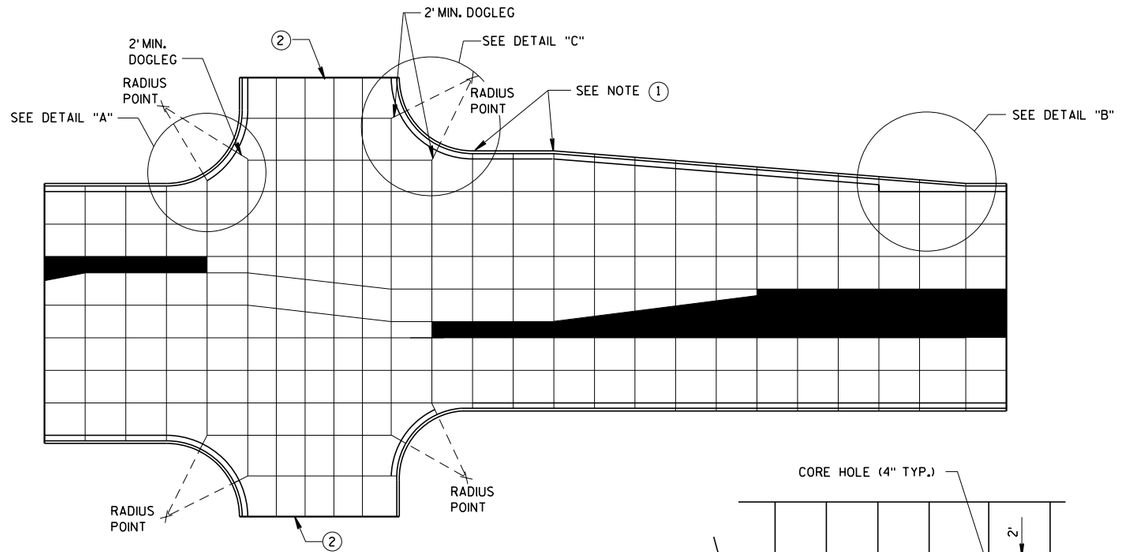
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

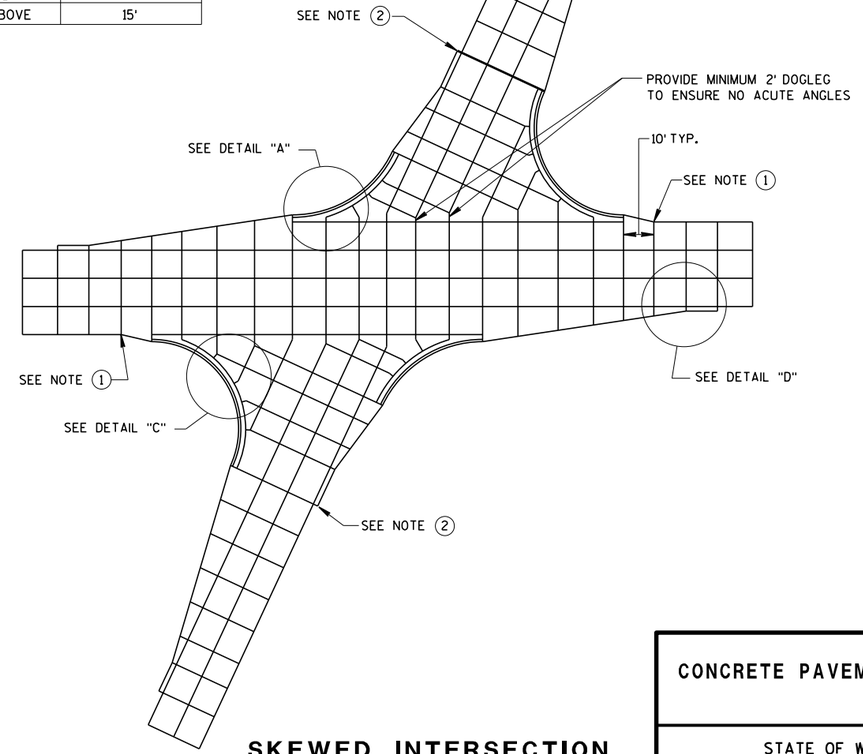
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



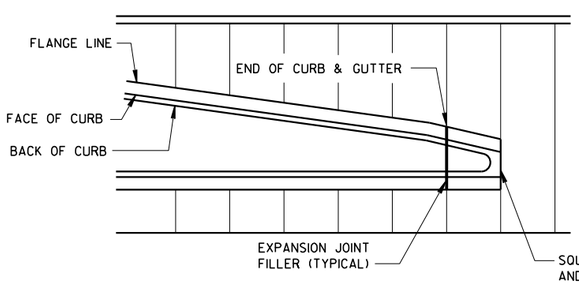
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

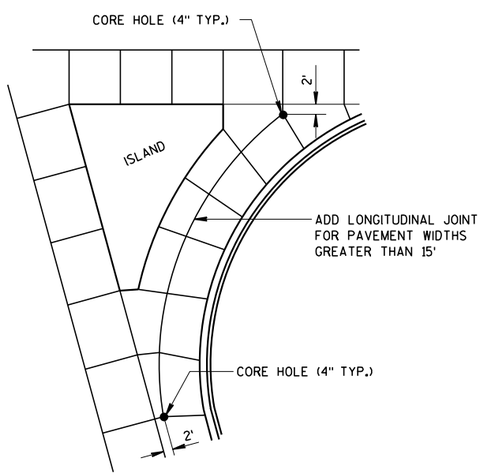
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

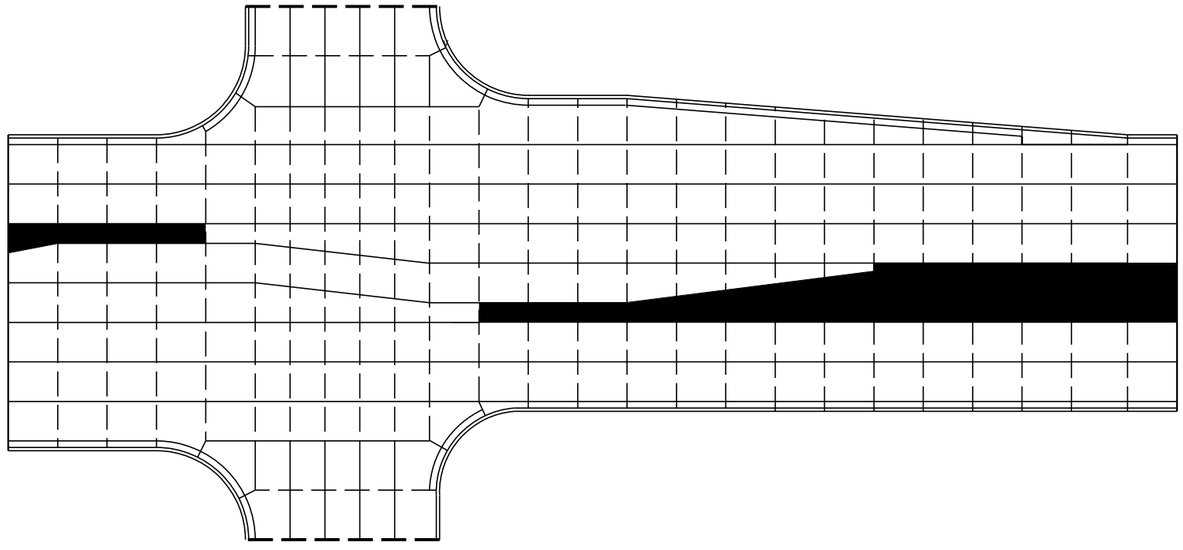
6
S.D.D. 13 C 18-6a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

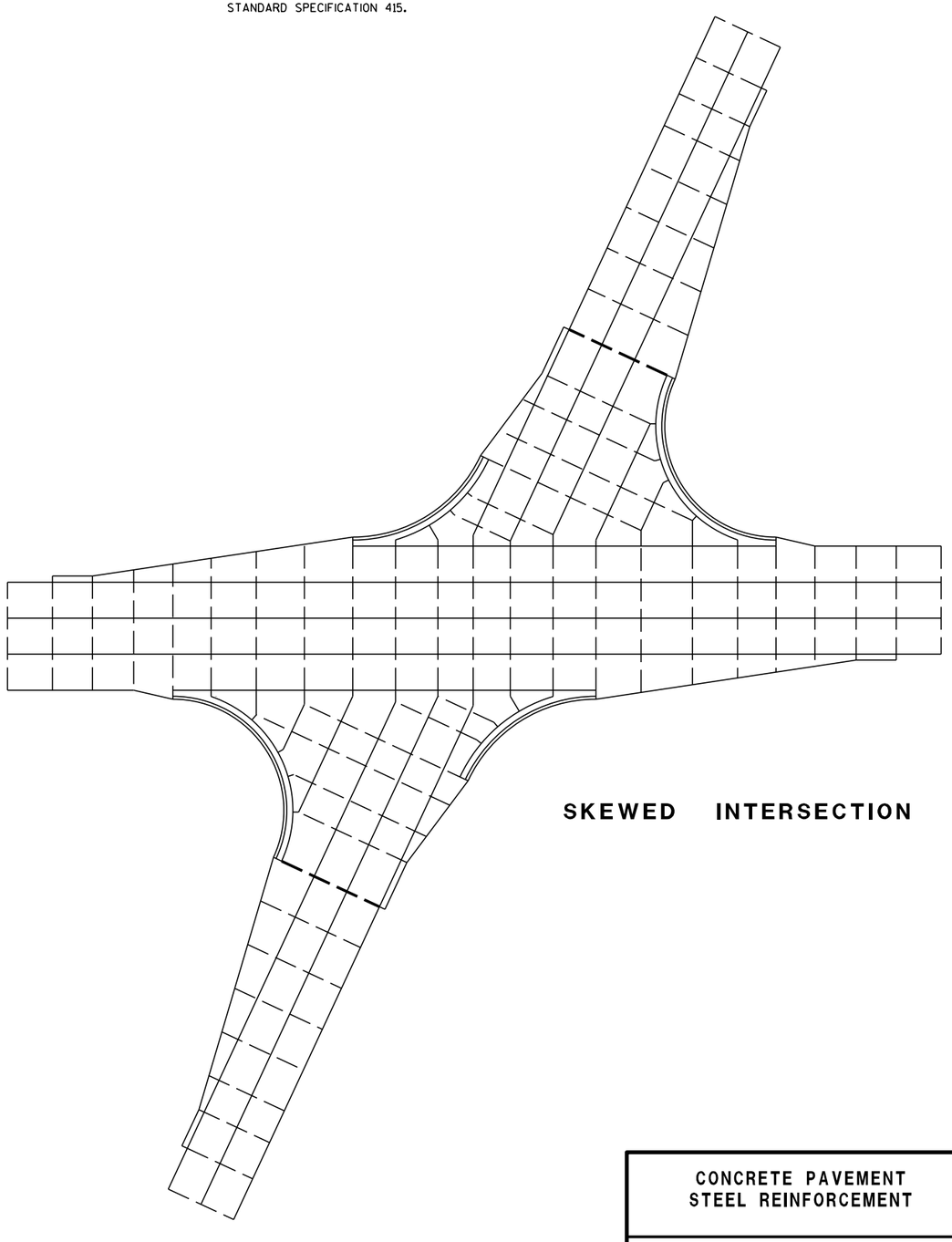
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

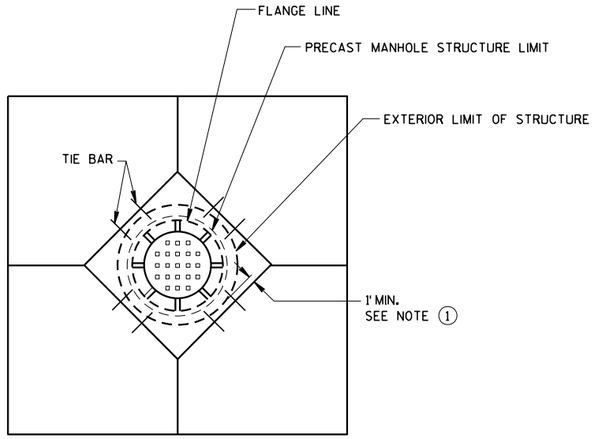
6

S.D.D. 13 C 18-6b

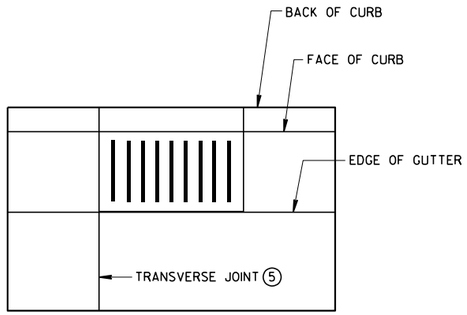
S.D.D. 13 C 18-6b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

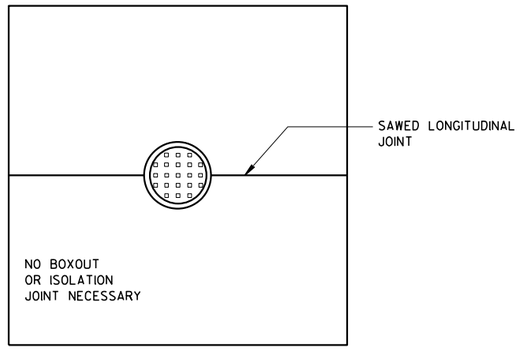
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



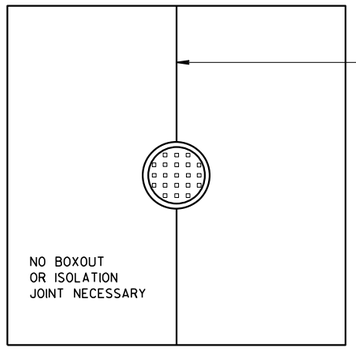
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



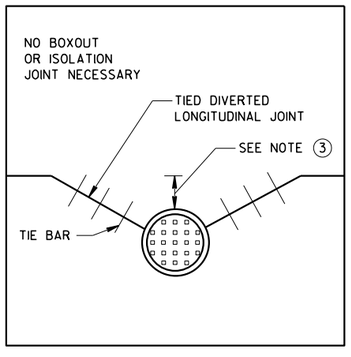
INLET WITH TRANSVERSE JOINT



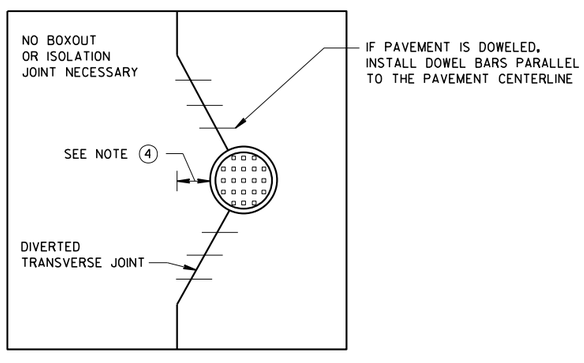
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

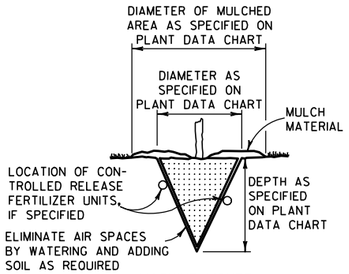
CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

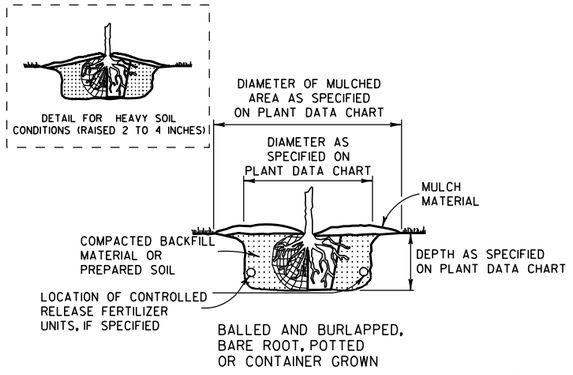
APPROVED
March 2018
DATE
/S/ Peter K[illegible] P.E.
PAVEMENT SUPT
FHWA

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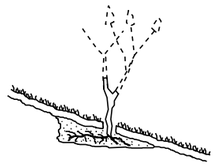
S.D.D. 13 C 18-6d



MACHINE MOVED

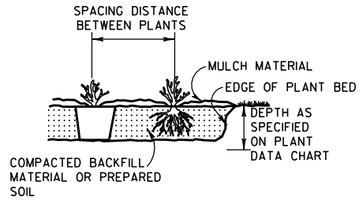


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



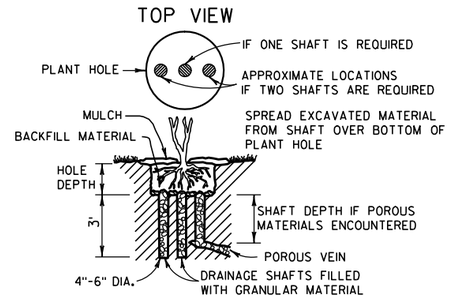
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



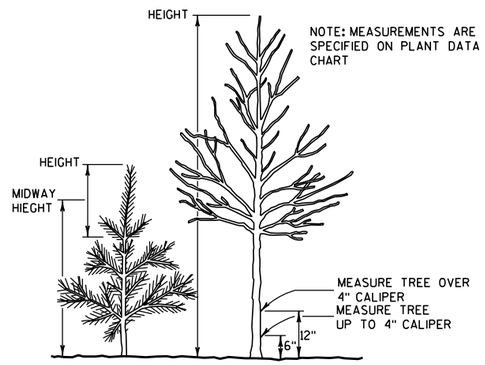
PREPARED BED (BARE ROOT AND POTTED)

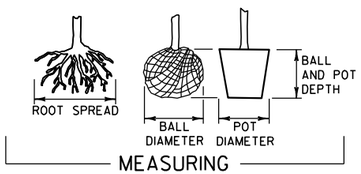
PLANTING



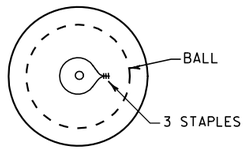
NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

DRAINING

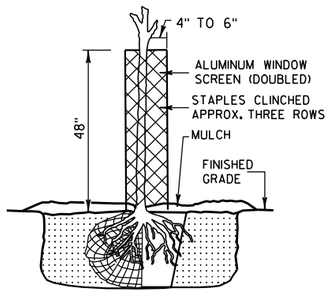




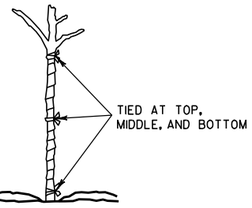
MEASURING



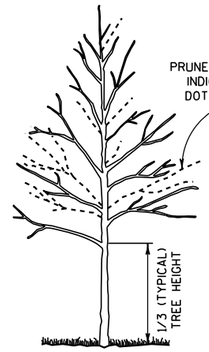
TOP VIEW



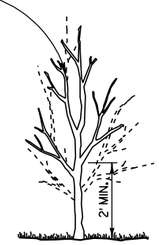
RODENT PROTECTION



WRAPPING



TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)



SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)



MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

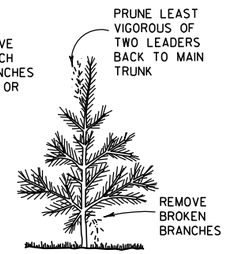
NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES



SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

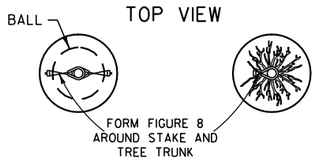


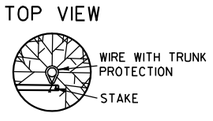
SUMAC

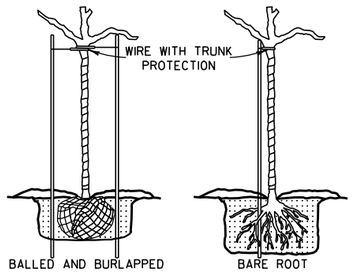


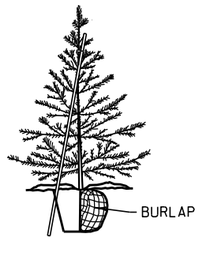
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

PRUNING



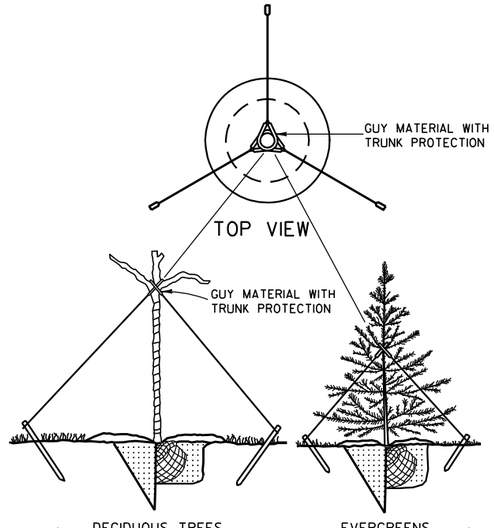






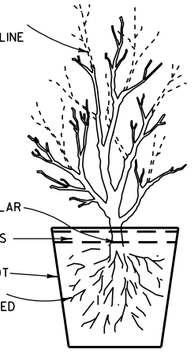
NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING

PRUNE LARGER SHRUBS BY REMOVING FROM ONE-THIRD TO ONE-HALF TOP GROWTH AS INDICATED BY DOTTED LINE



POTTING

NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

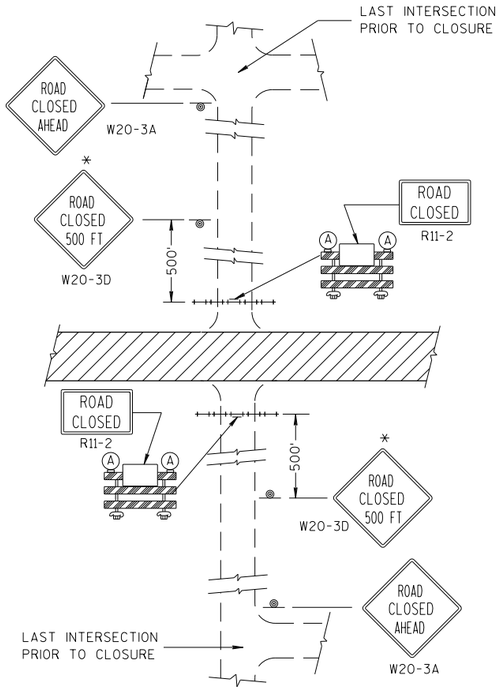
TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

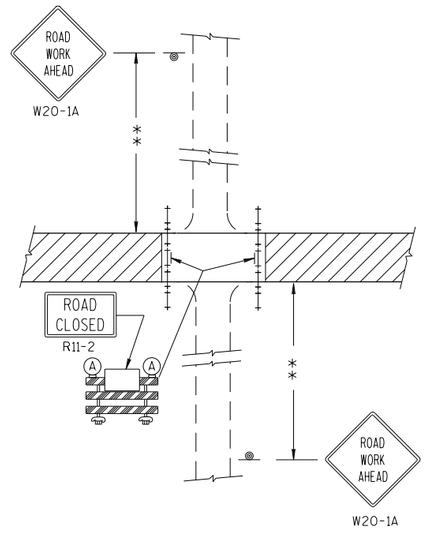
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S.D.D. 14 A 2-1



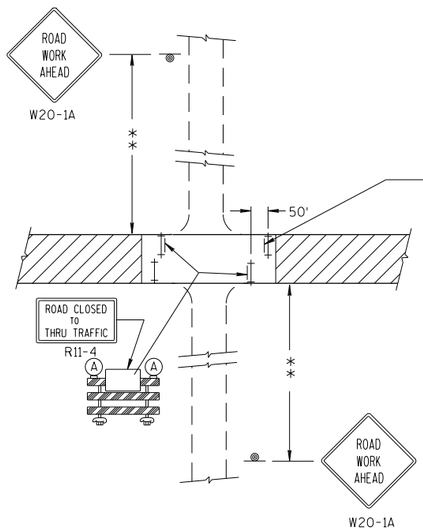
DETAIL 1

(NO ACCESS TO PROJECT)



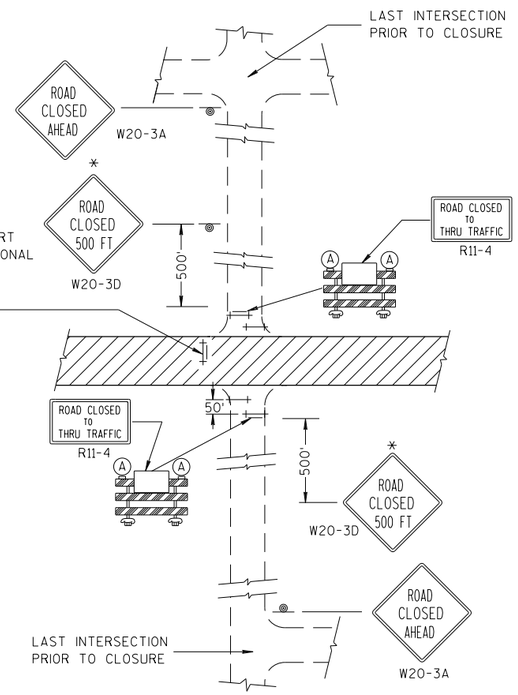
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

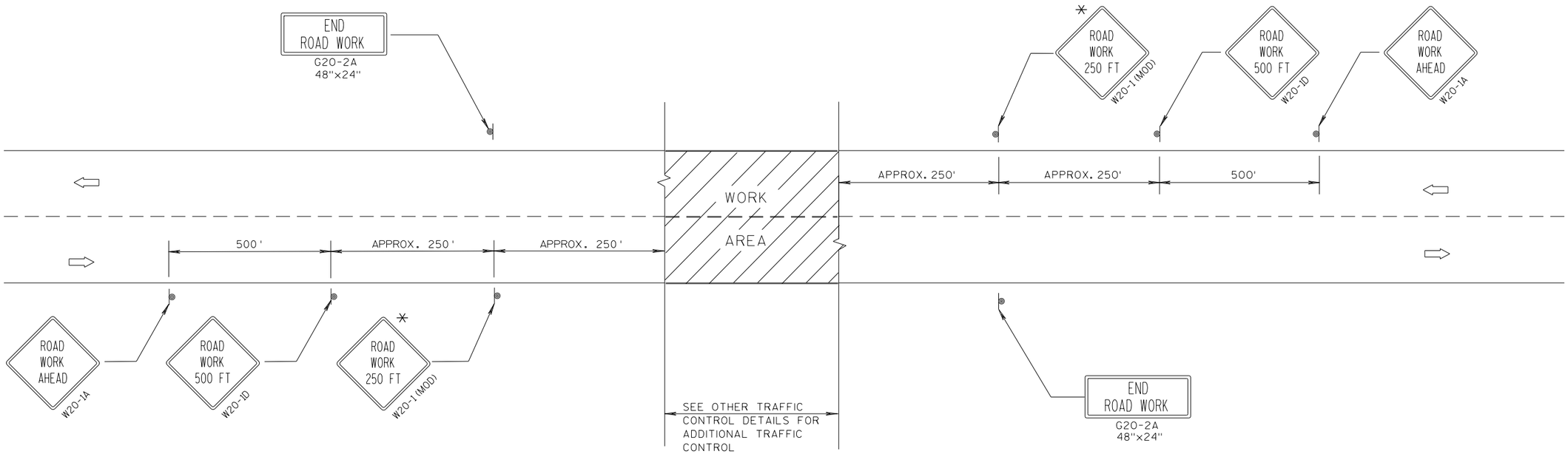
/S/ Andrew Heidtke
WORK ZONE ENGI

FHWA

6

S.D.D. 15 C 3-5

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

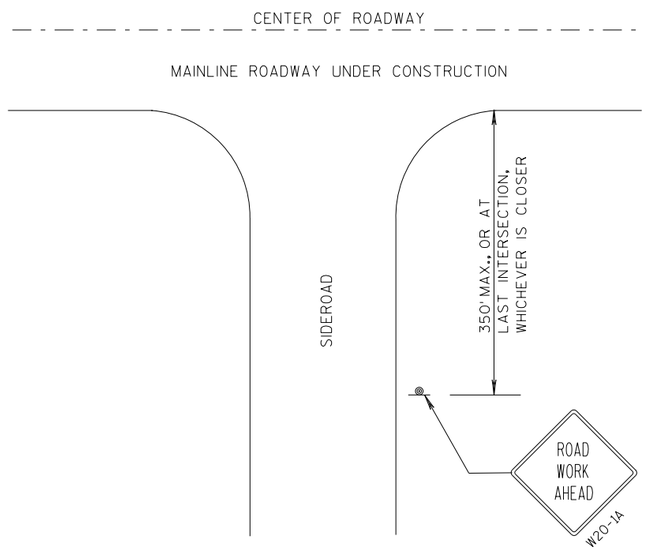
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENGI

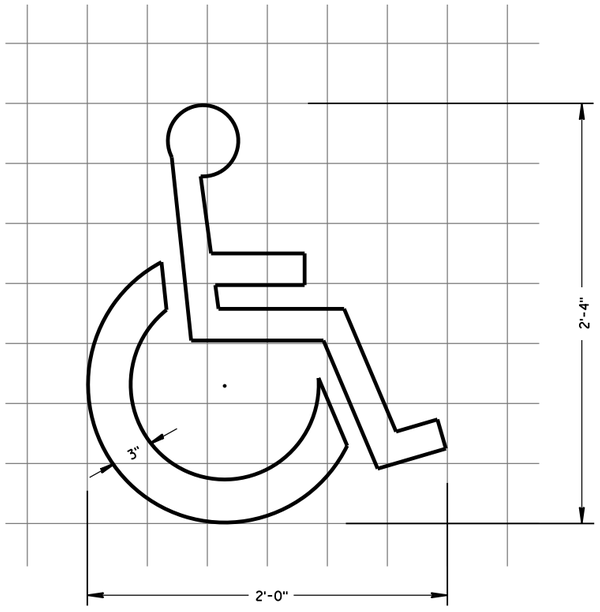
FHWA

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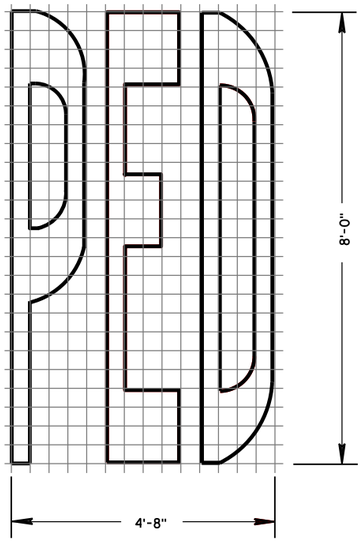
S.D.D. 15 C 5-5

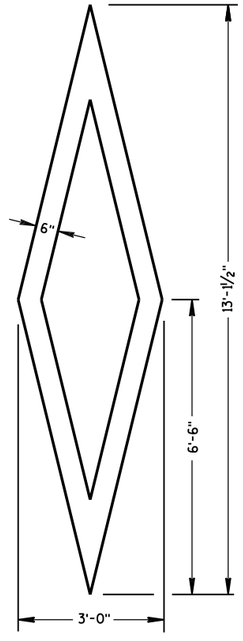
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL





PREFERENTIAL LANE SYMBOL

6

6

S.D.D. 15 C 7-14a

S.D.D. 15 C 7-14a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

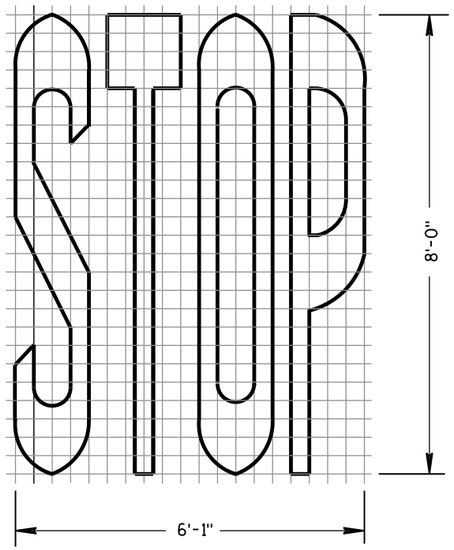
June 2017 — DATE

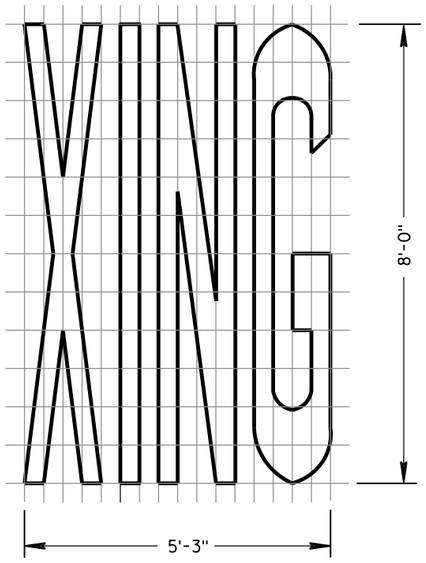
/S/ Matthew R. Rauch — STATE SIGNING AND MARK EER

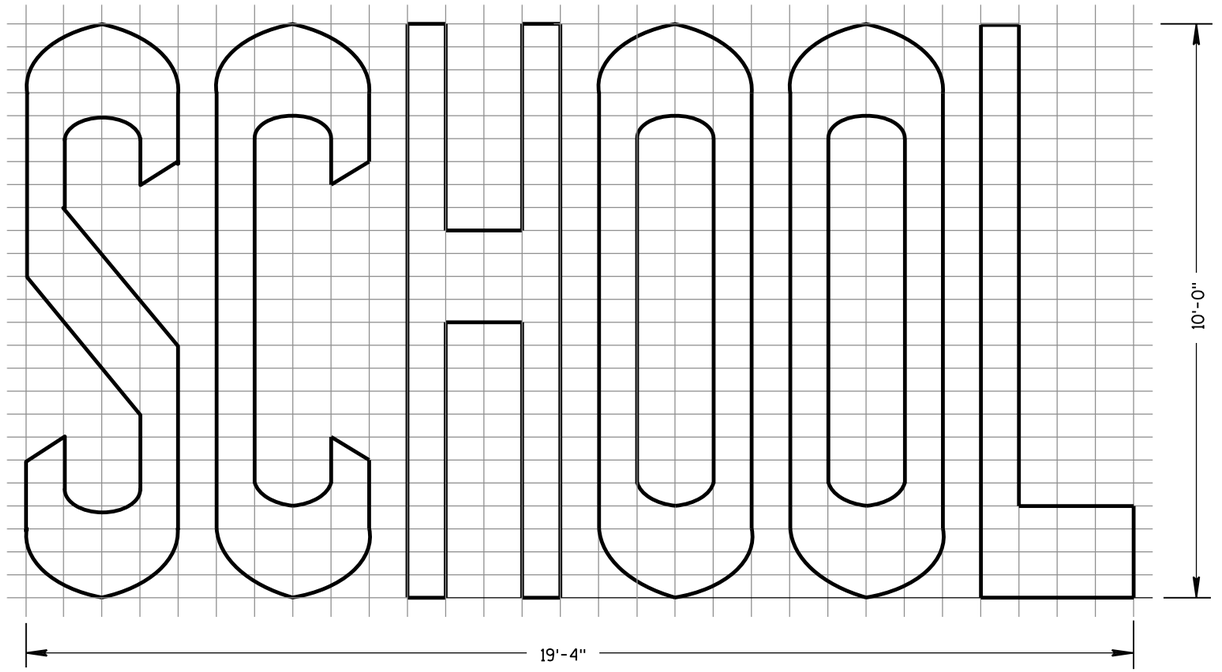
FHWA

GENERAL NOTES

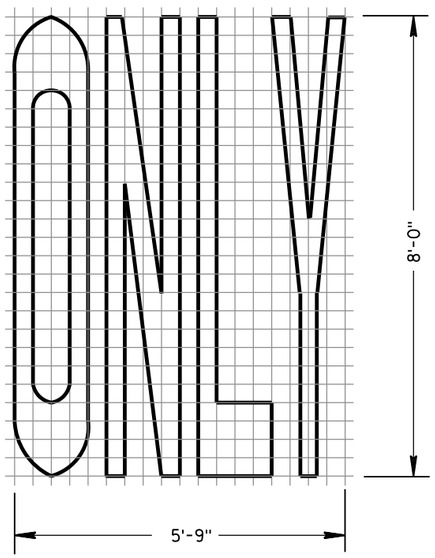
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

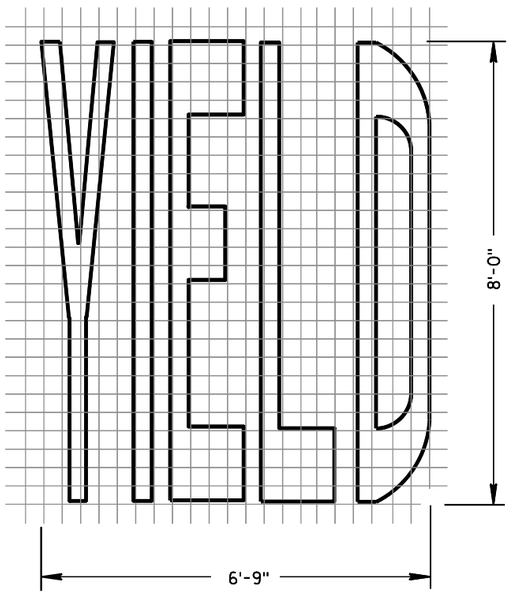


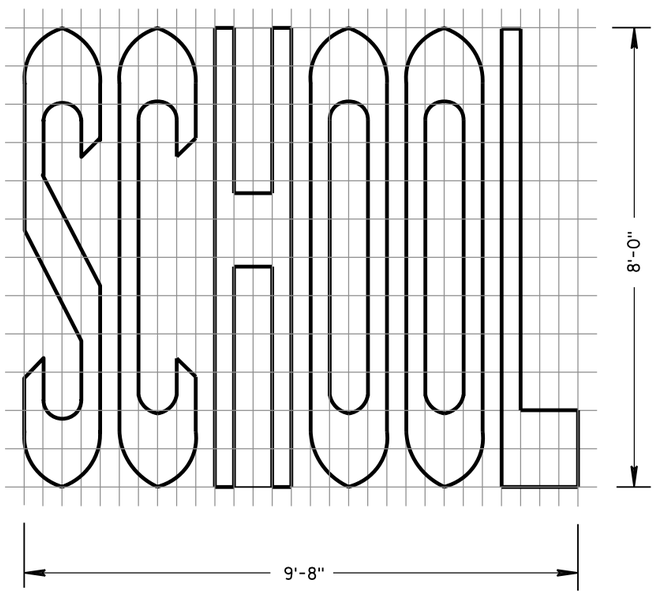




TWO-LANE







SINGLE-LANE

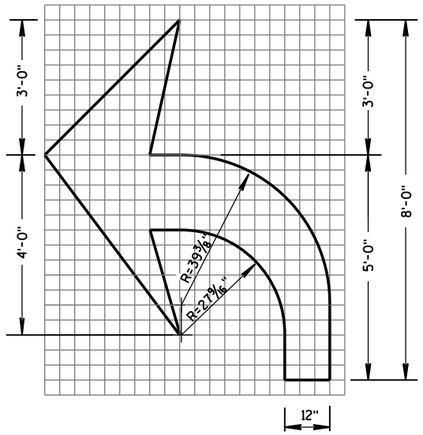
PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

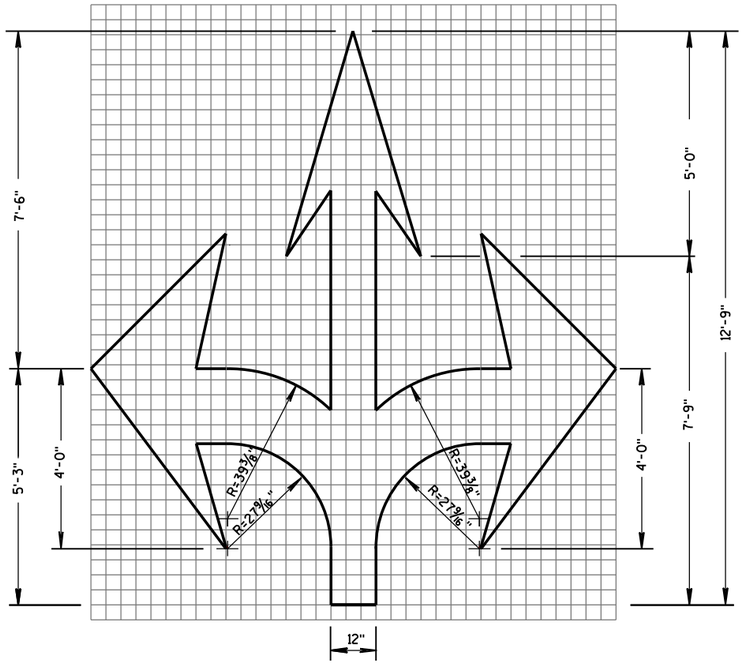
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK
EER
FHWA

6

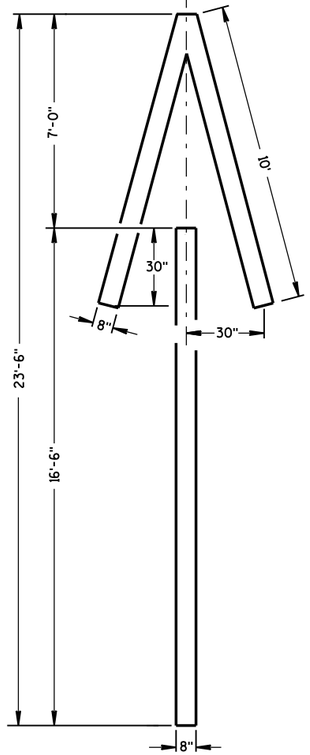
S.D.D. 15 C 7-14b



TYPE 2



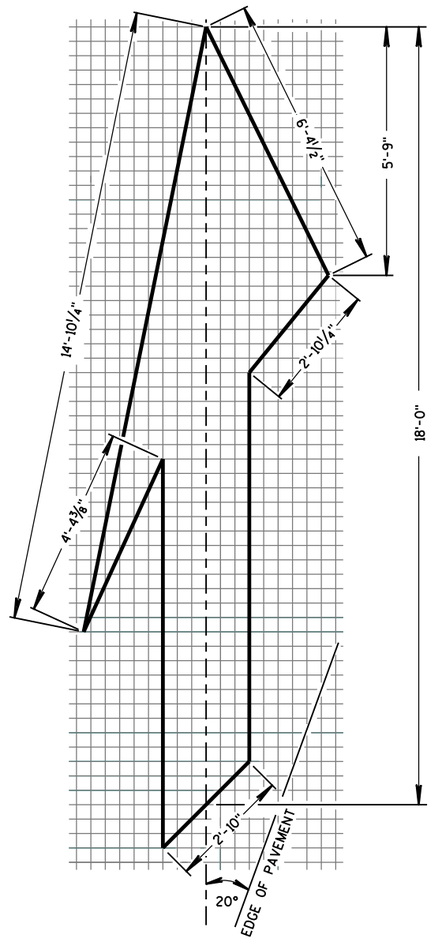
TYPE 6



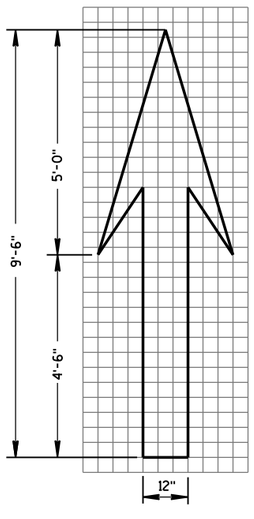
TYPE 4

GENERAL NOTES

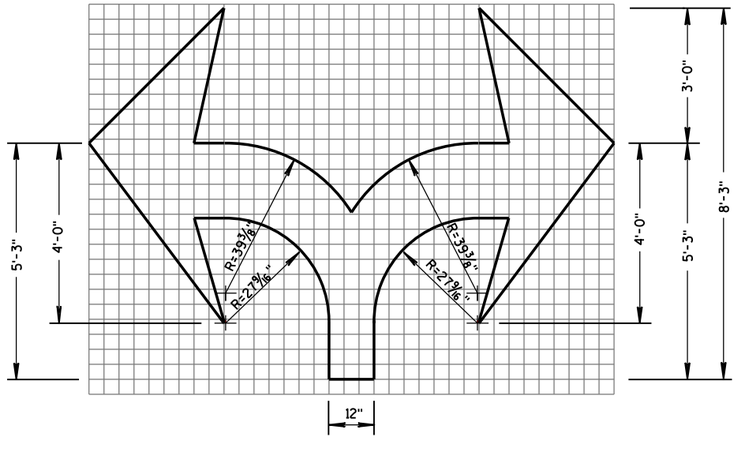
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



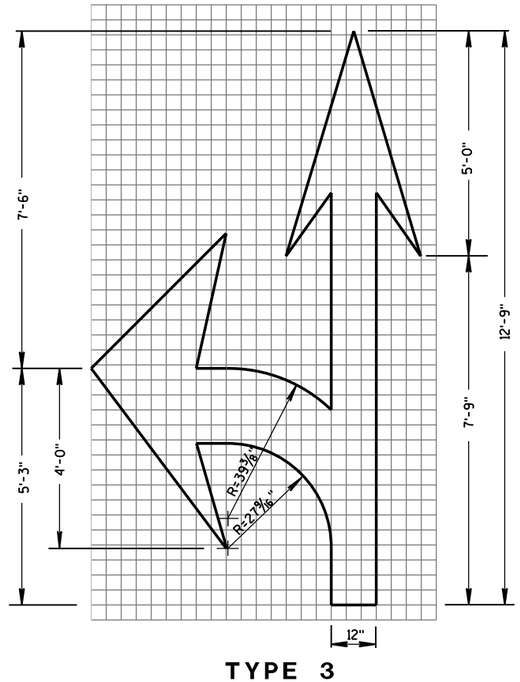
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

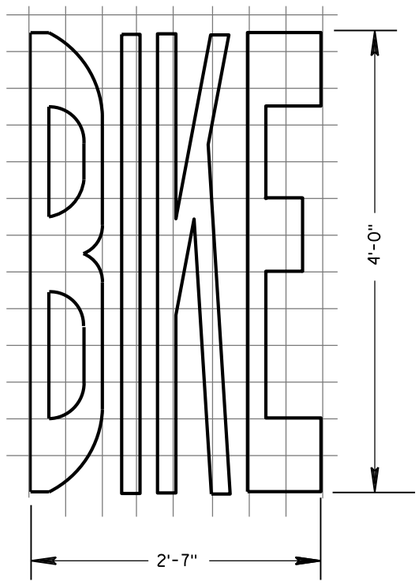
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

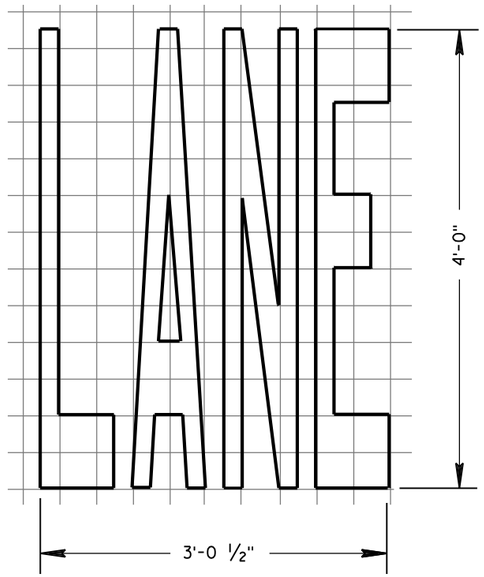
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S.D.D. 15 C 7-14c

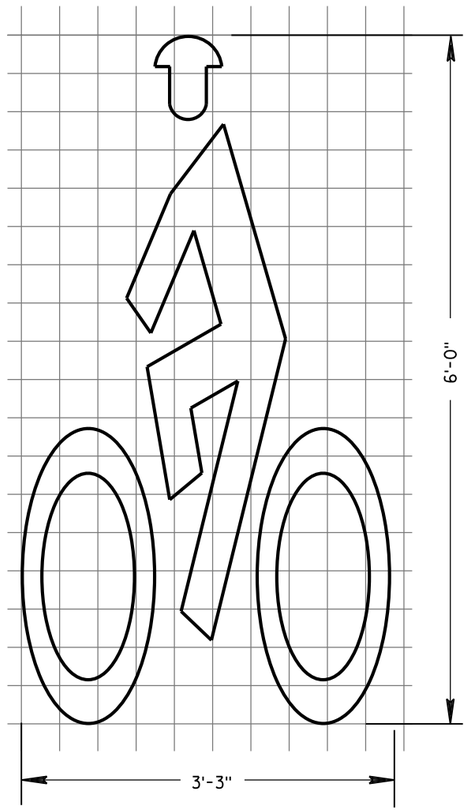
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S.D.D. 15 C 7-14c

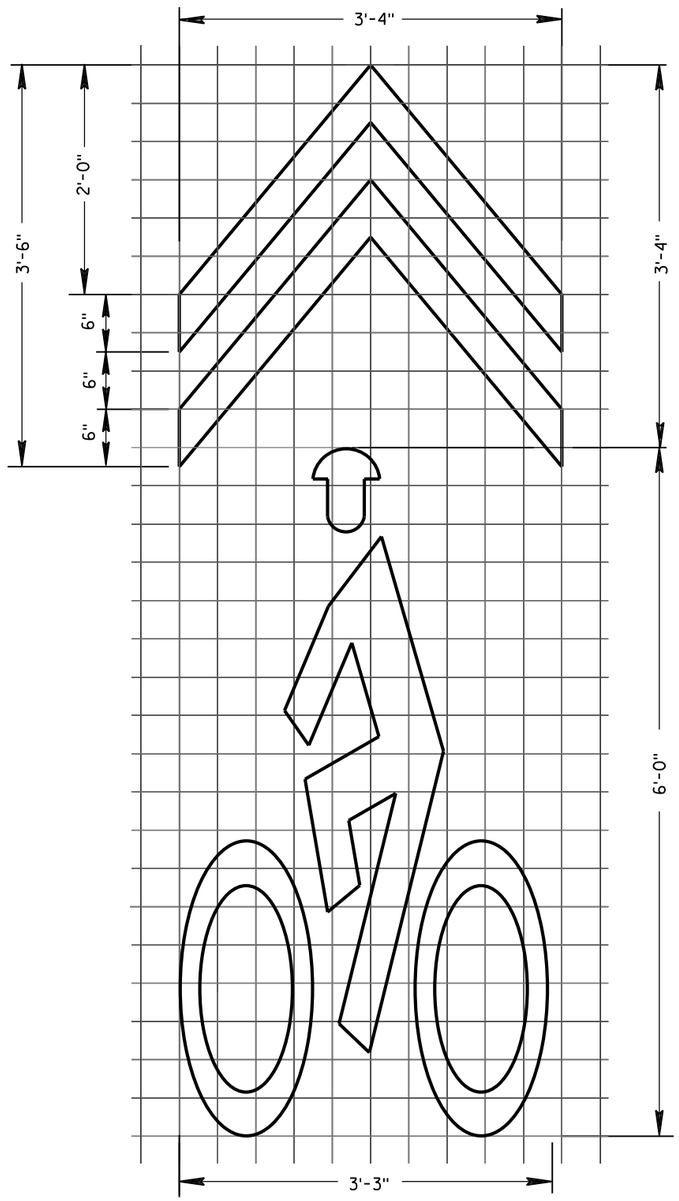




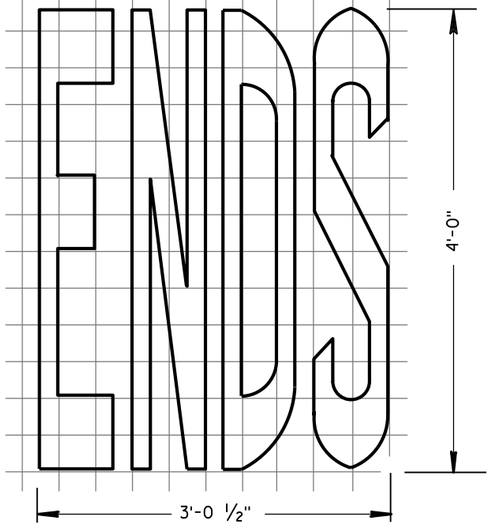
BIKE LANE WORDS



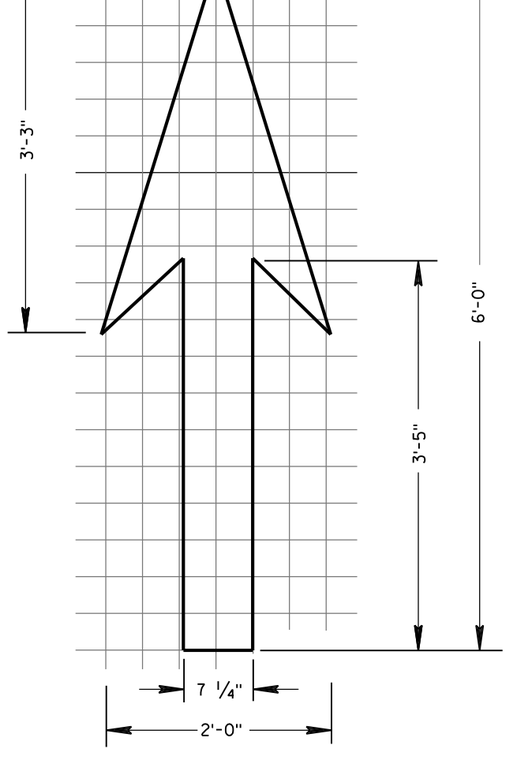
BIKE LANE SYMBOL



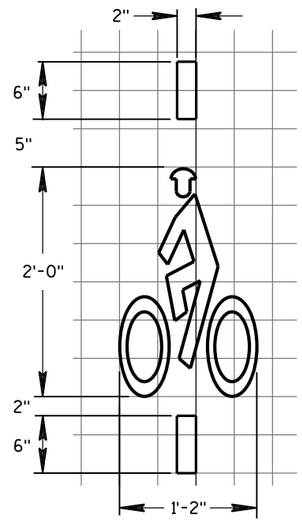
BIKE SYMBOL FOR SHARED LANE



BIKE LANE WORDS



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

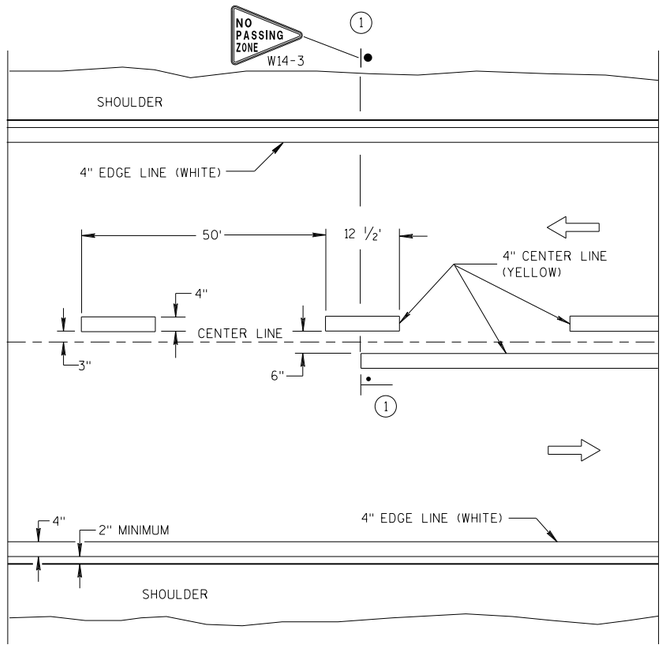
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

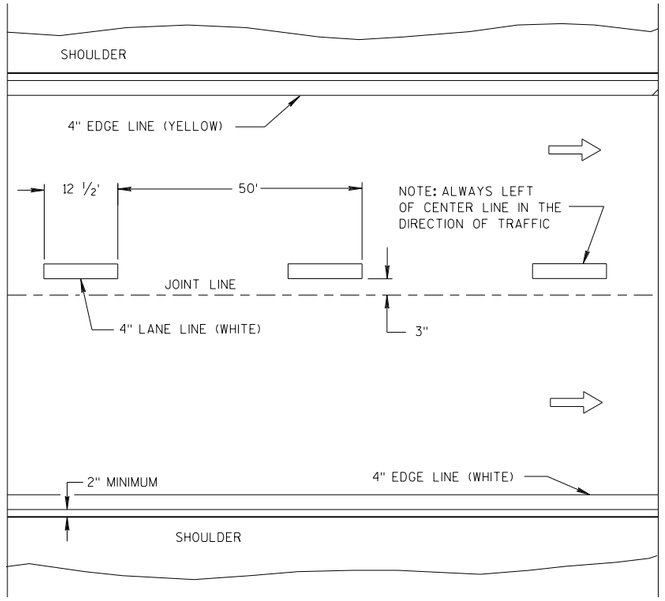
S.D.D. 15 C 7-14e

6

S.D.D. 15 C 7-14e



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

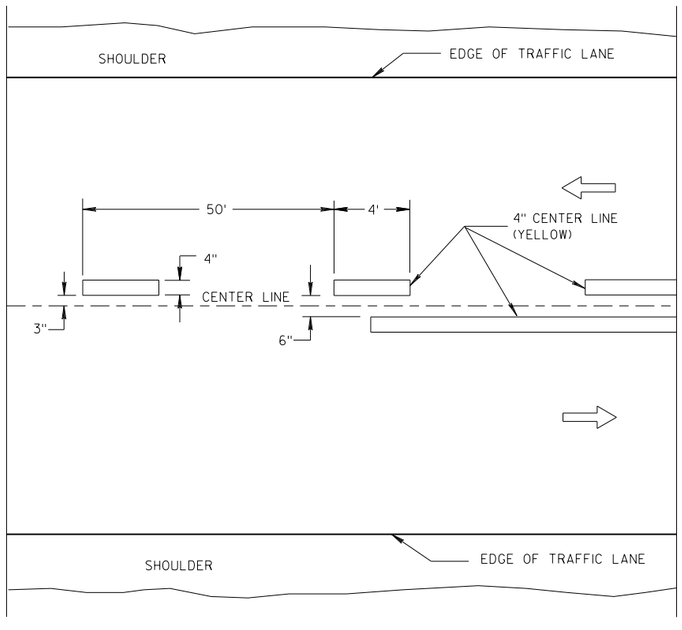
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

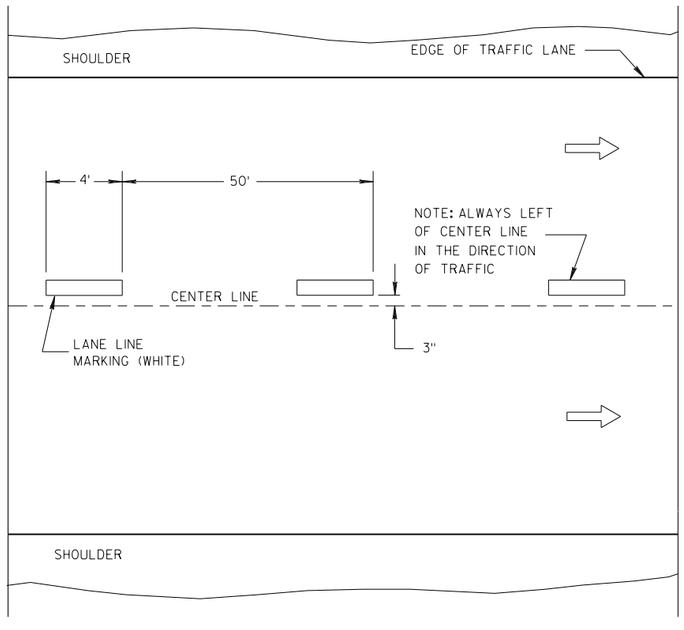
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

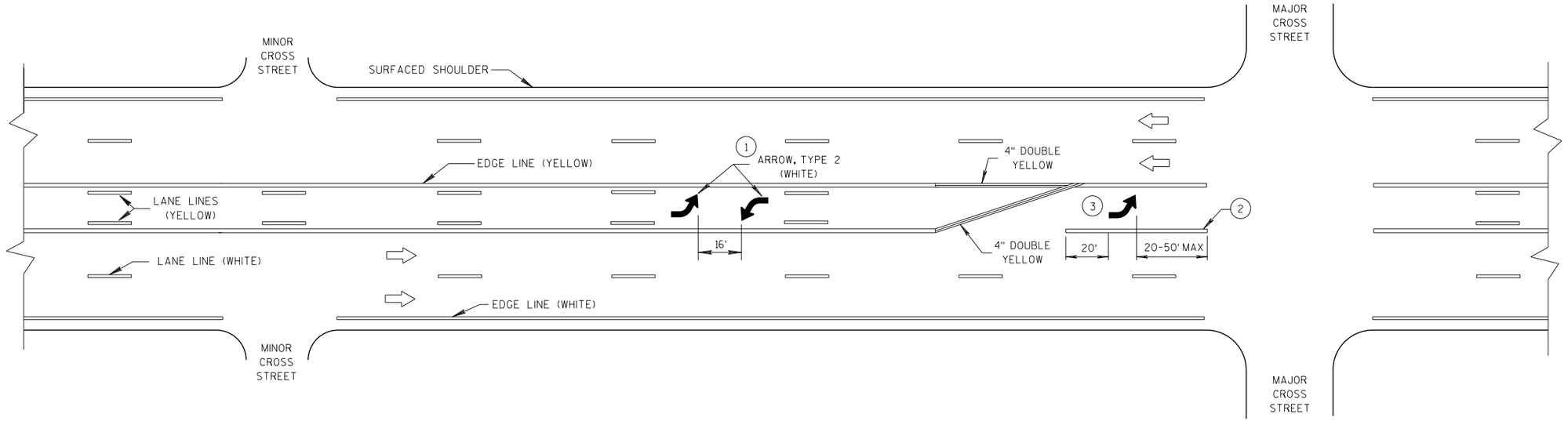
6

S.D.D. 15 C 8-19a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC



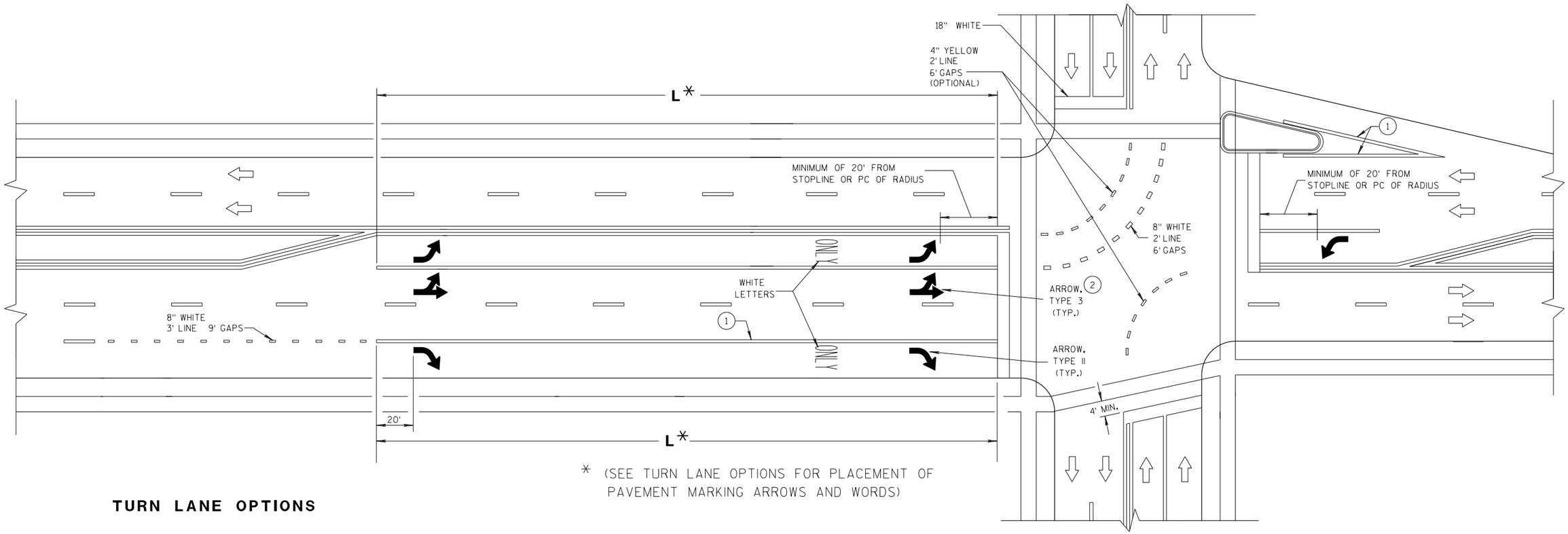
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

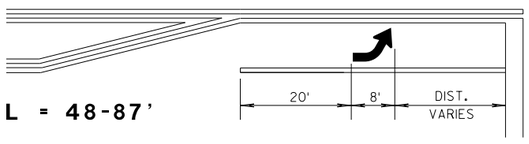
S.D.D. 15 C 8-19b



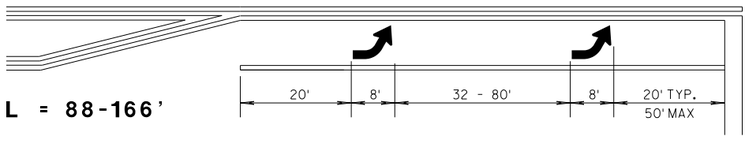
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

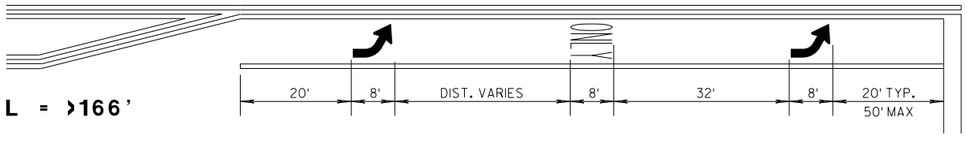
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

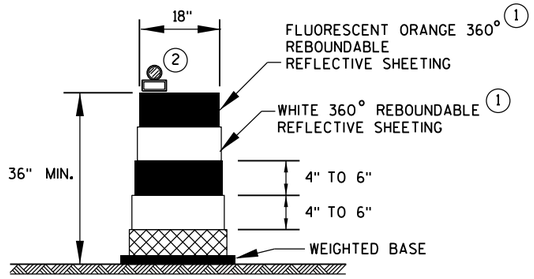
(1) 8" WHITE

(2) QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

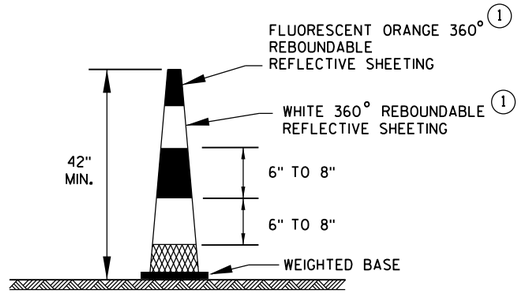
⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)



DRUM

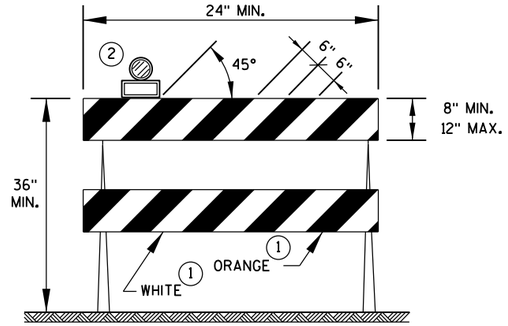


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

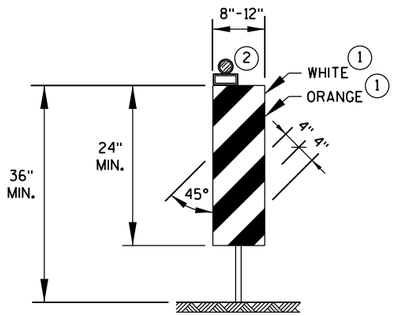
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



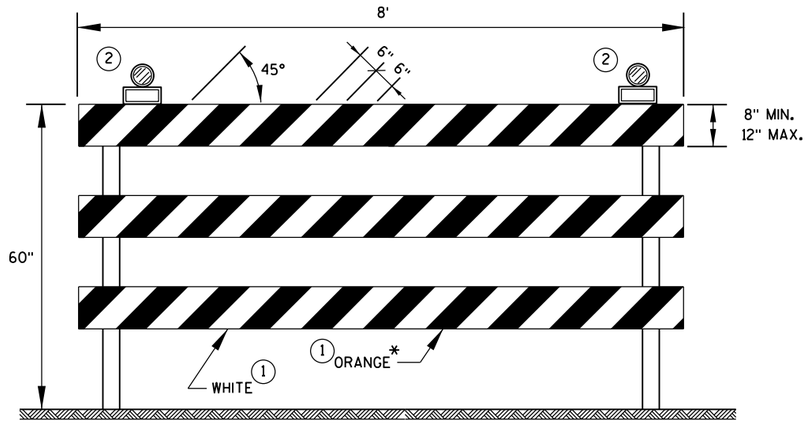
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

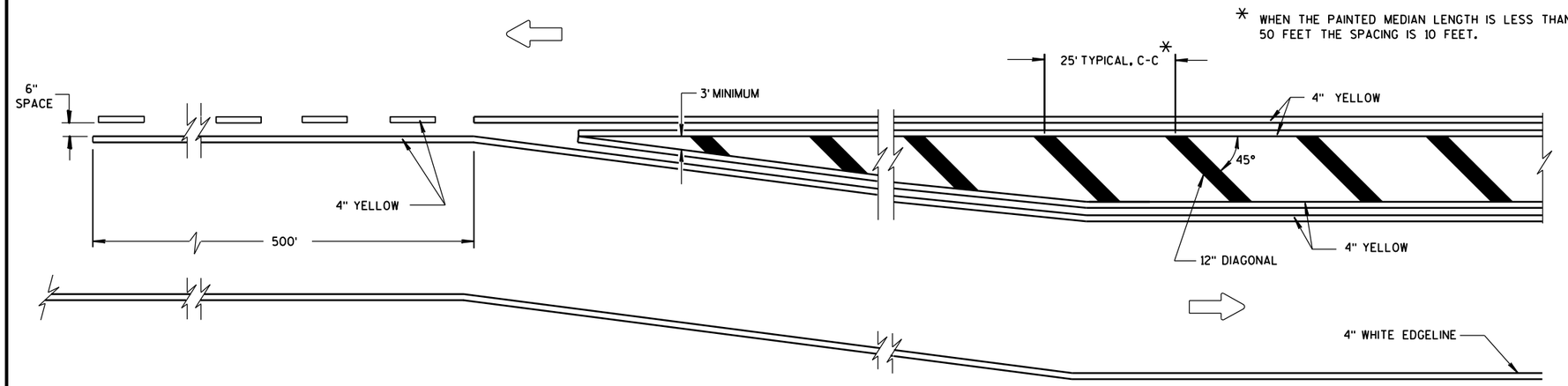
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENG
FHWA	

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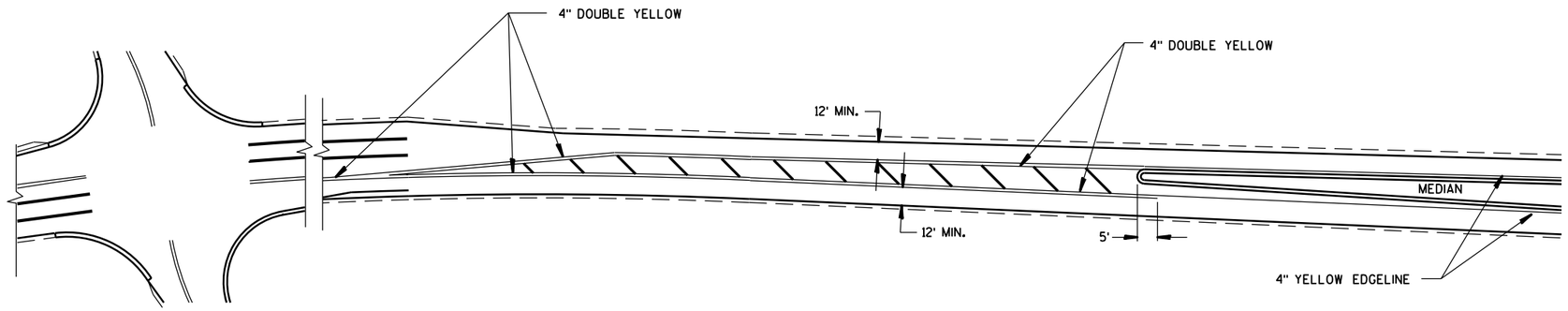


MEDIAN ISLAND DETAIL

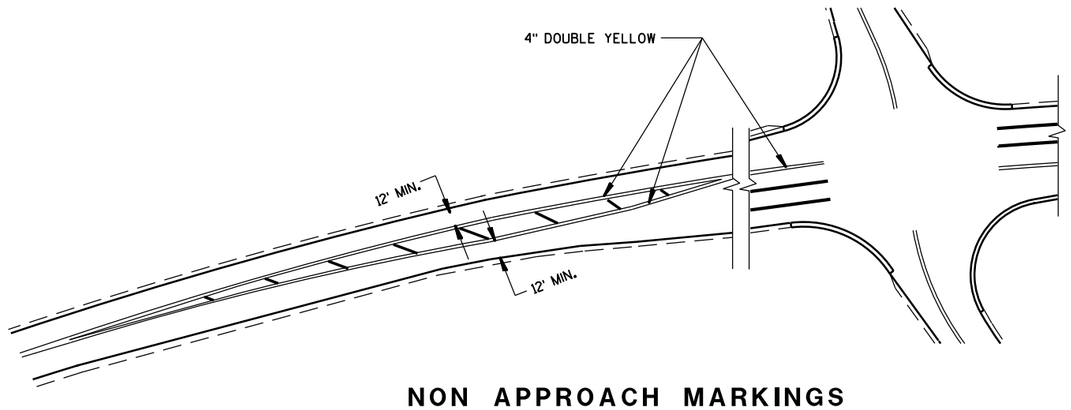
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

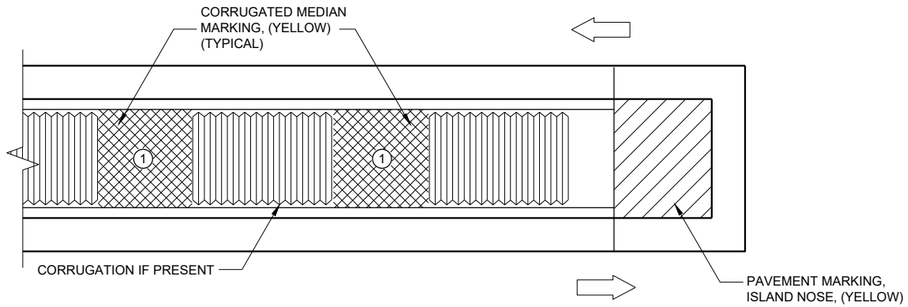
MEDIAN ISLAND MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

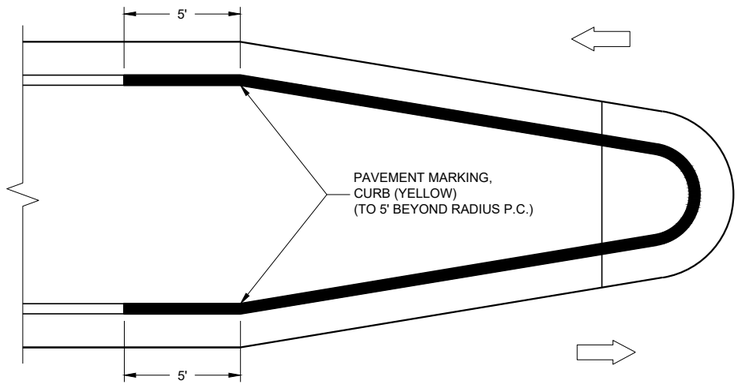
APPROVED
June 2017 — DATE
/S/ Matthew Rauch
STATE SIGNING AND MARK[illegible]EER
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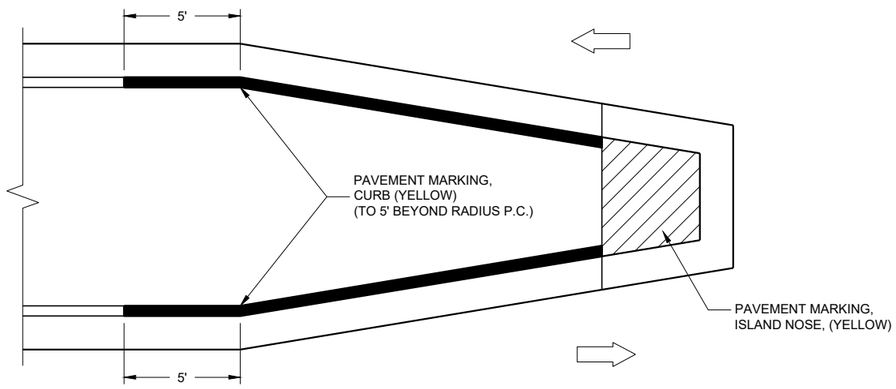
S.D.D. 15 C 18-4



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

**TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS**

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

**PAVEMENT MARKINGS
(ISLANDS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR
ENGINEER

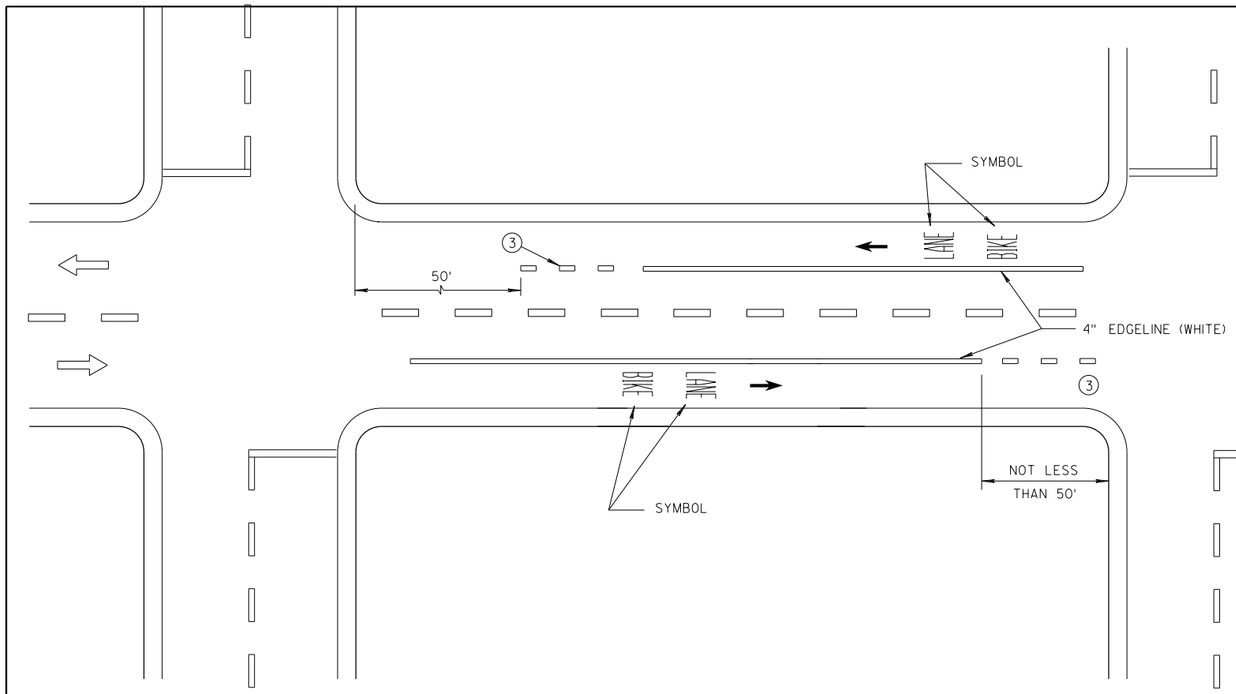
FHWA

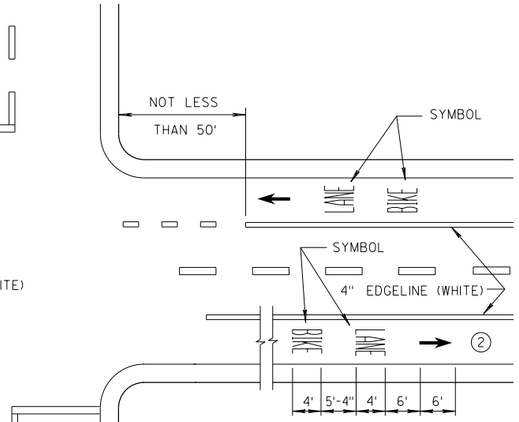
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SDD 15C27 - 03b

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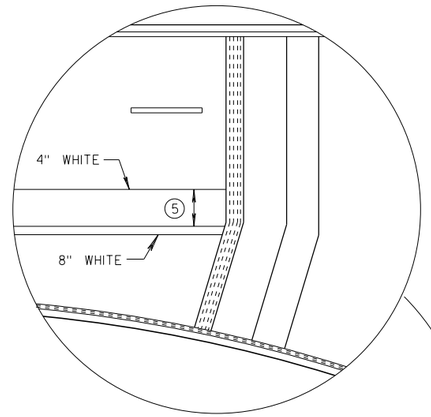


DESIGNATED BICYCLE LANE
NO PARKING

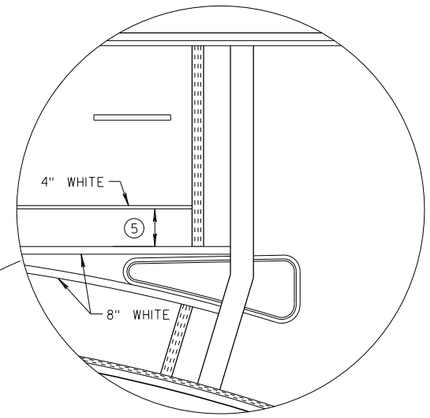
GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMODATION IS TYPICALLY 5 FEET WIDE AND A MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FEET WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

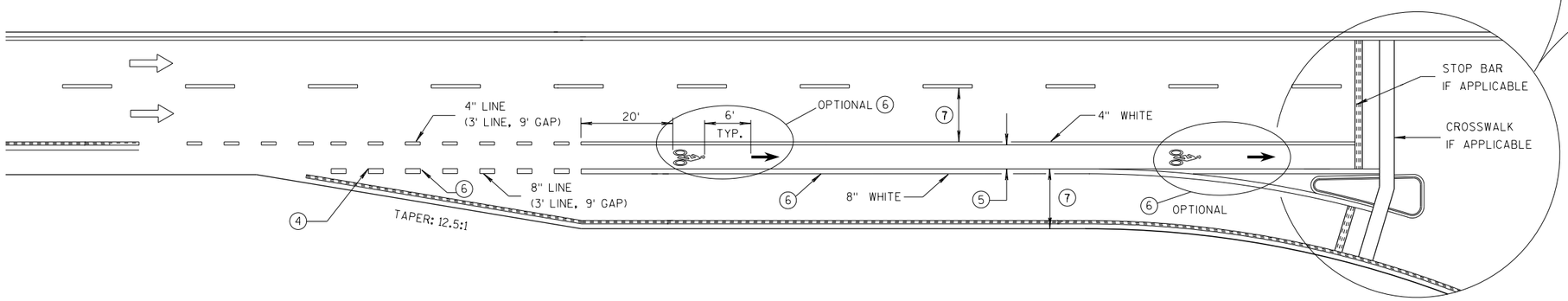
DIRECTION OF TRAVEL



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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7/2018
DATE

/S/ Matthew R. Rauch
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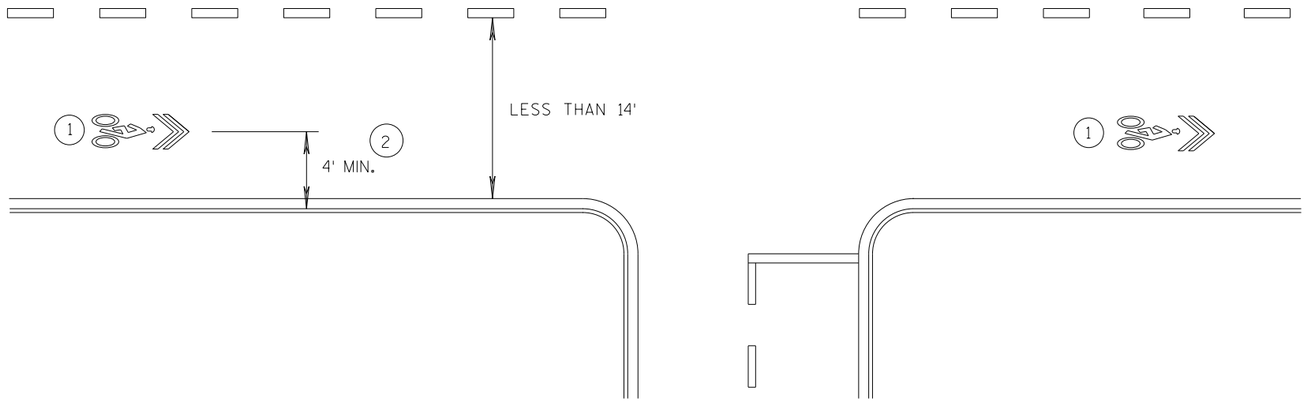
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S.D.D. 15 C 29-6a

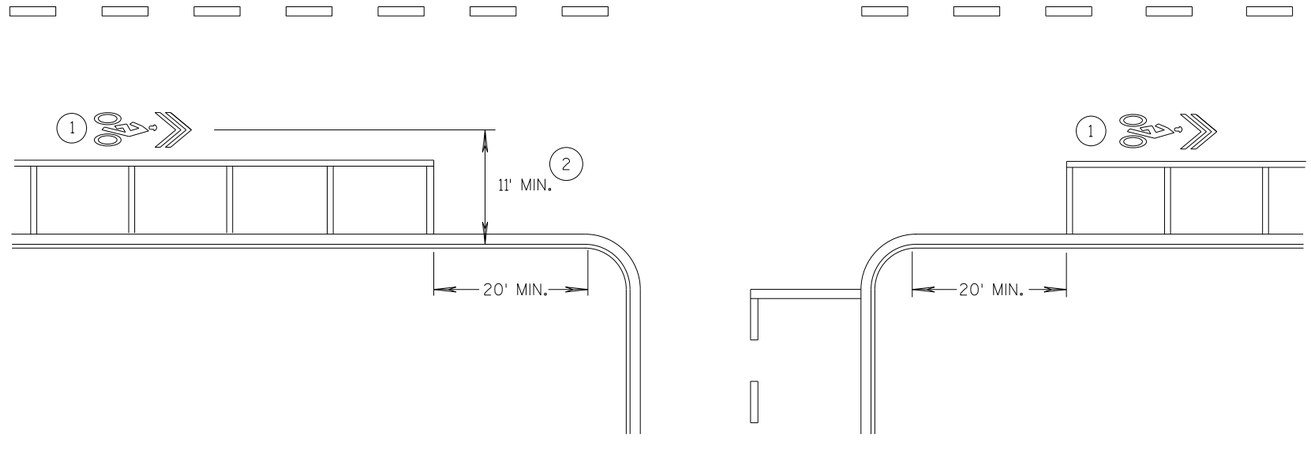
GENERAL NOTES

(1) MINIMUM OF ONE PER BLOCK, MAXIMUM OF 250 FEET.

(2) OR TO EDGE OF PAVEMENT WITHOUT CURB.



WITHOUT PARKING



WITH PARKING

PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS

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DEPARTMENT OF TRANSPORTATION

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/S/ Matthew R. Rauch
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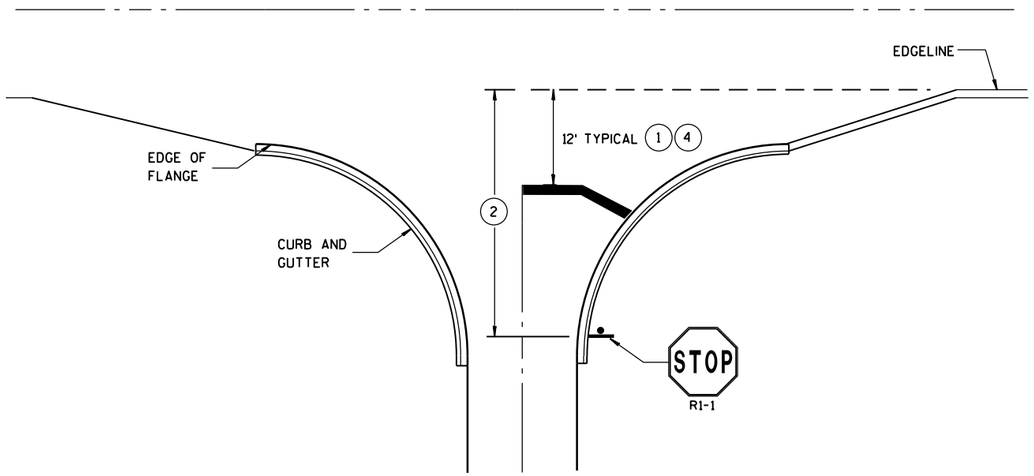
FHWA

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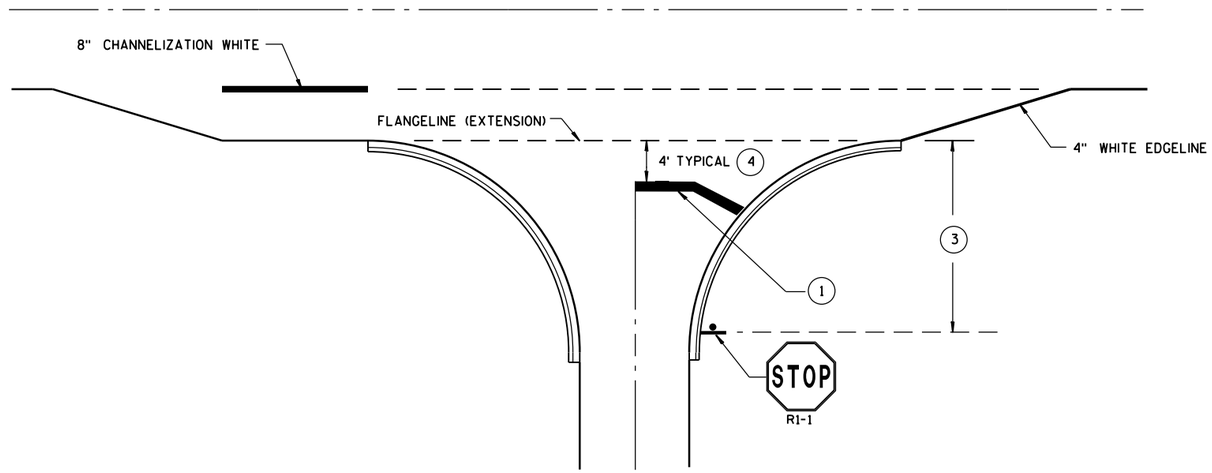
S.D.D. 15 C 29-6b

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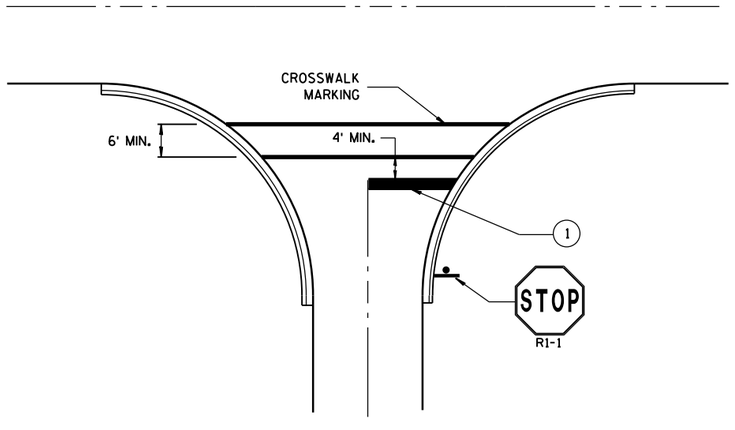
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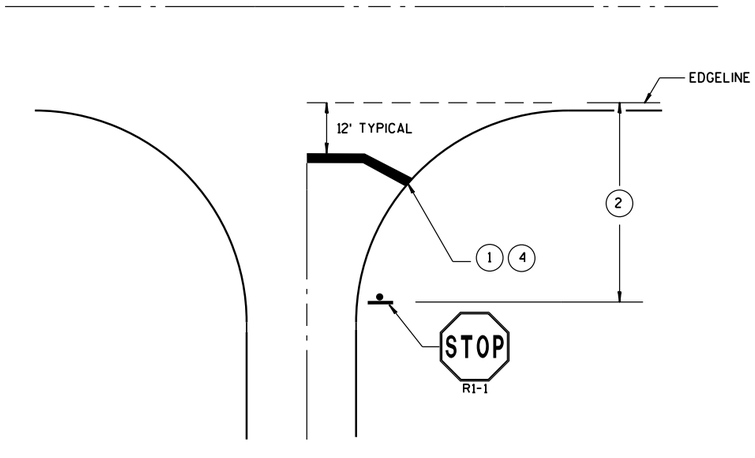
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

(1) 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR 334 ...NEER

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S.D.D. 15 C 33-3

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

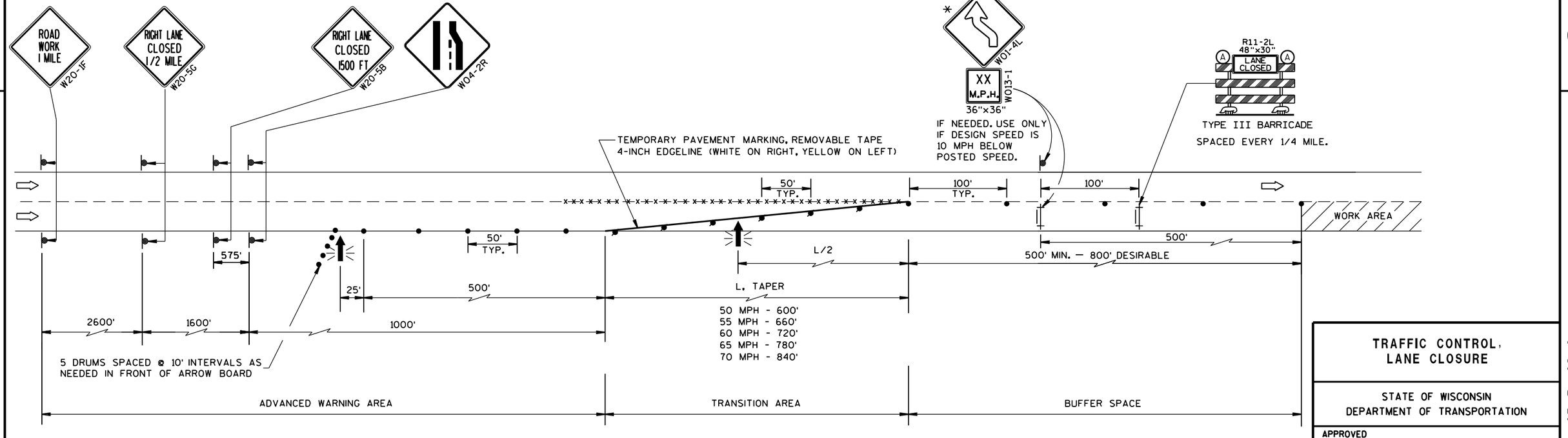
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

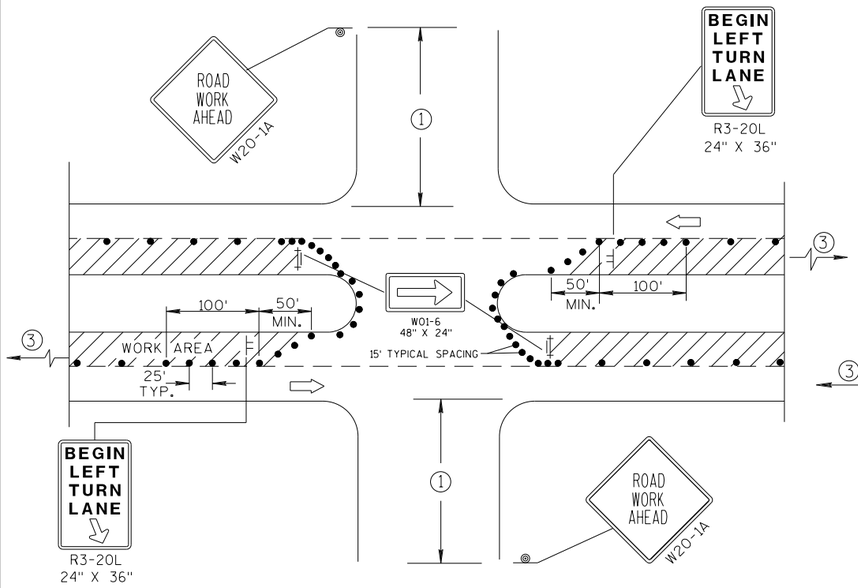
APPROVED
March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

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S.D.D. 15 D 12-6a

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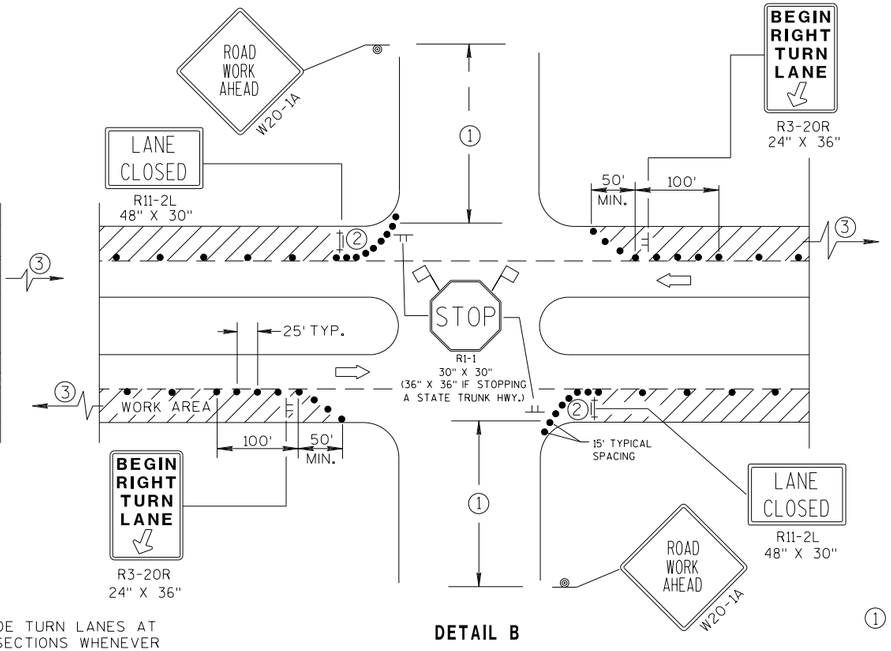
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DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

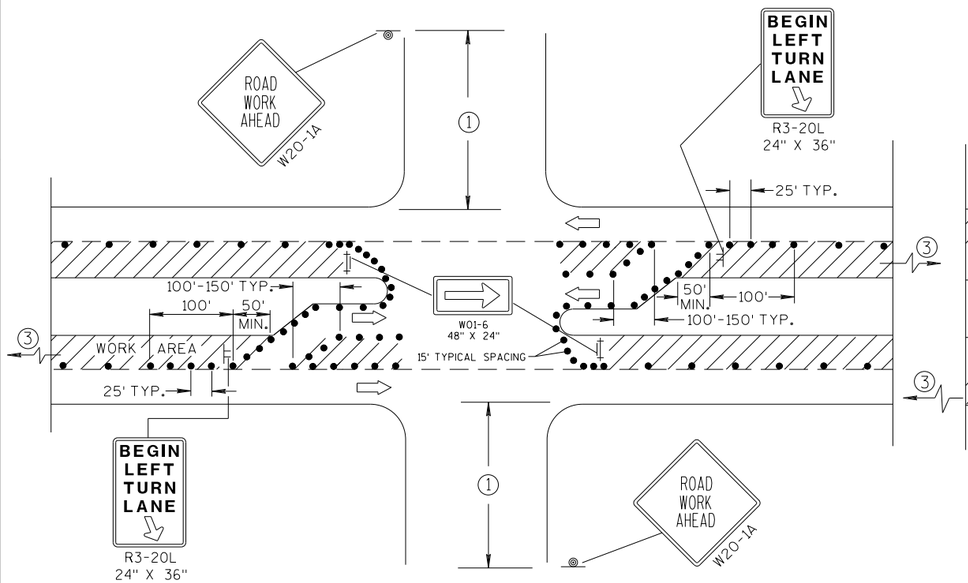
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

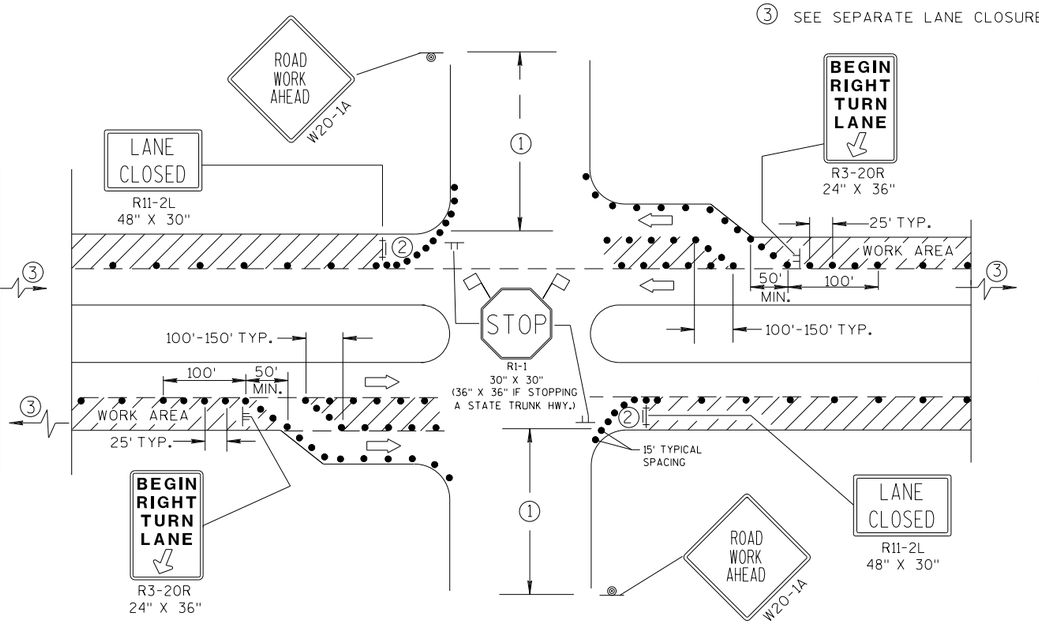
② ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

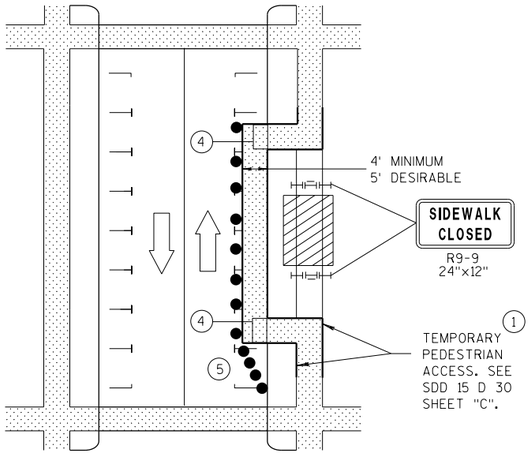
/S/ Andrew Heldtke
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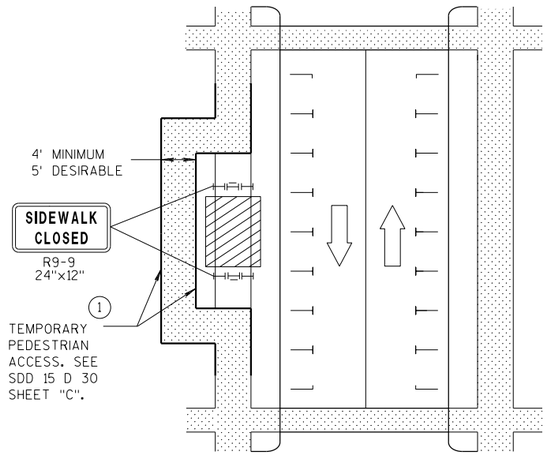
S.D.D. 15 D 21-6

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

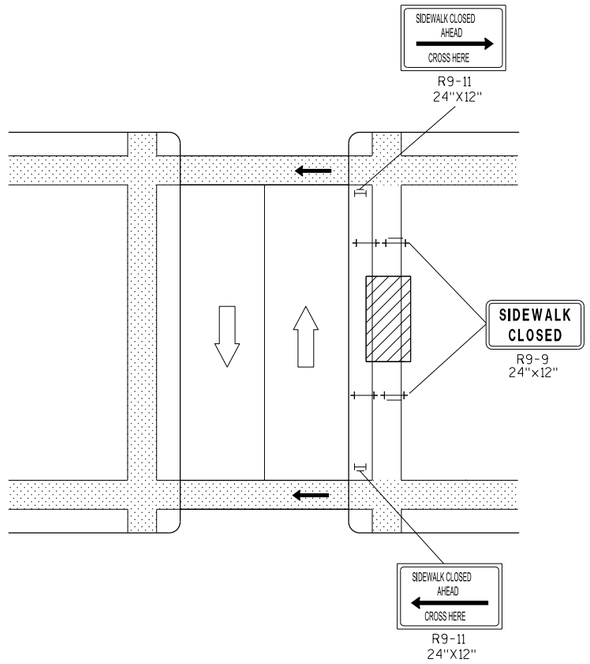


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

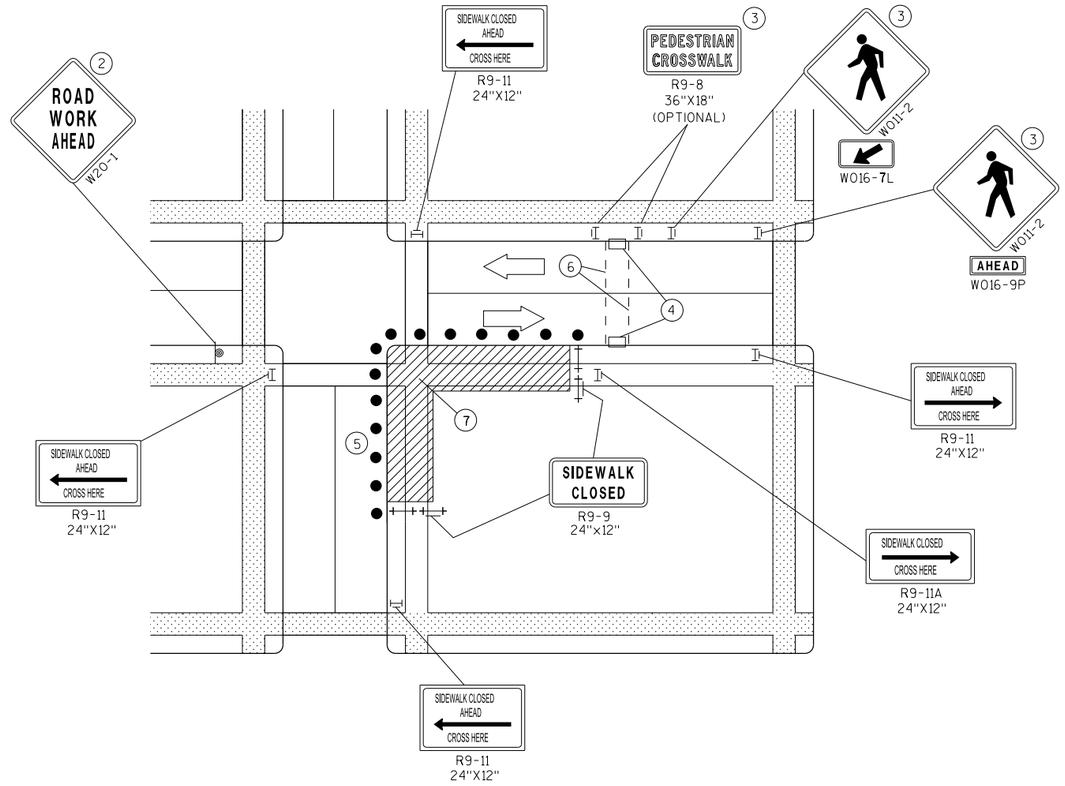
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

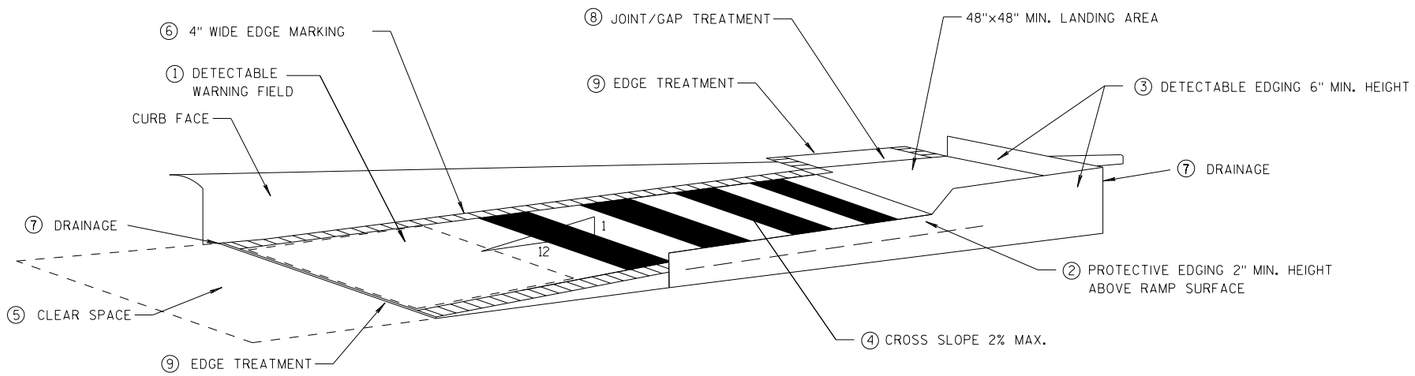
LEGEND

- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

S.D.D. 15 D 30-4a



TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".

② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

④ CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

⑤ CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

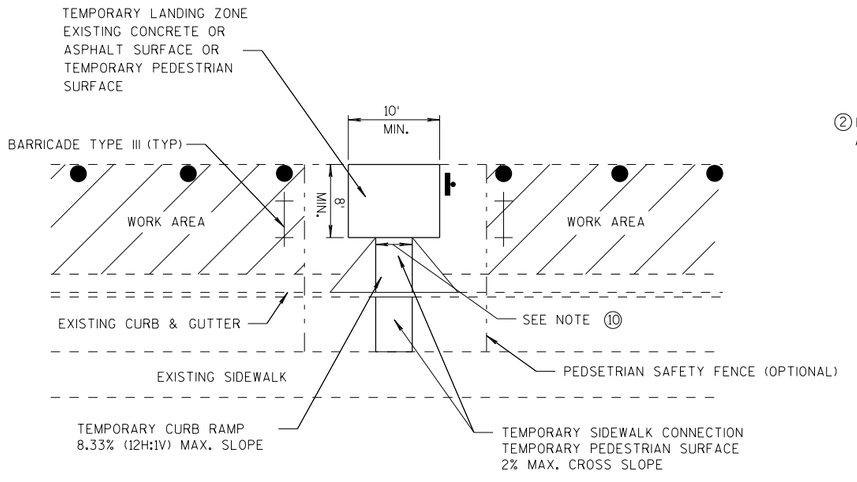
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

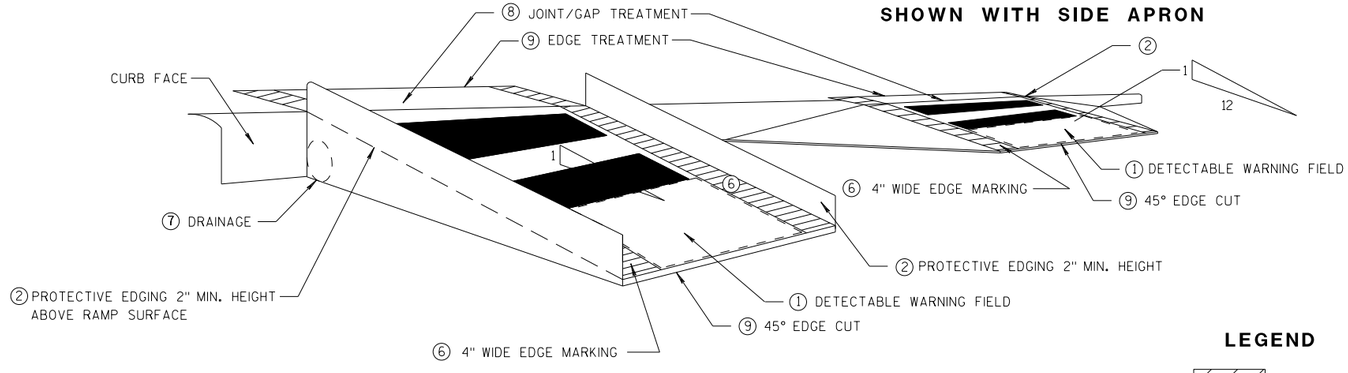
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH SIDE APRON

SHOWN WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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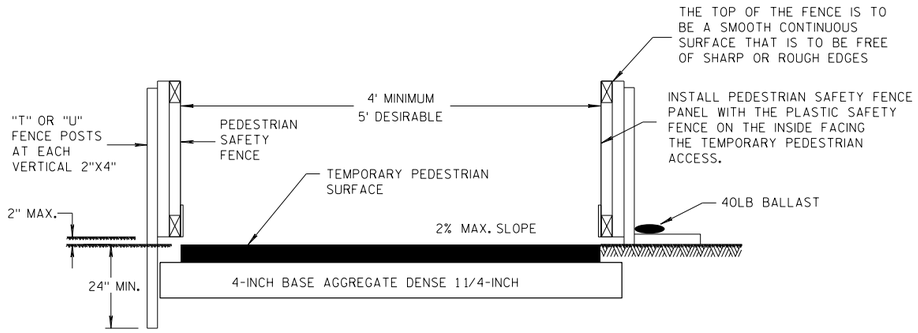
7/2018 DATE

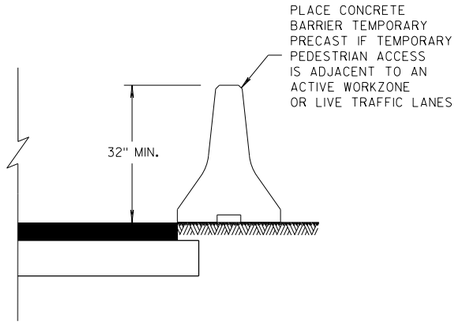
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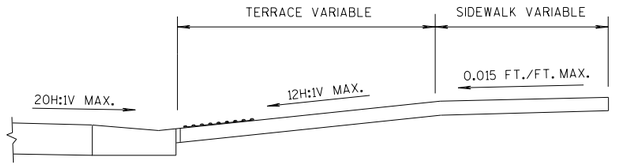




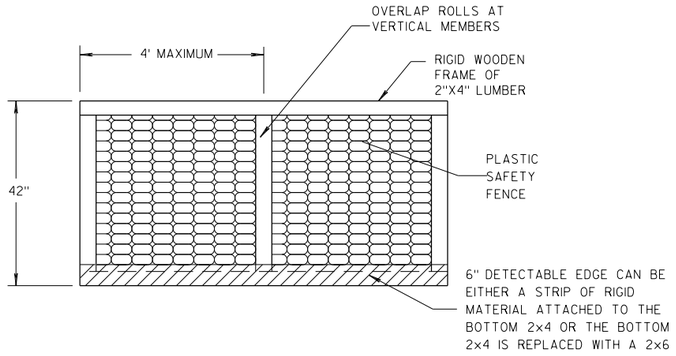
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

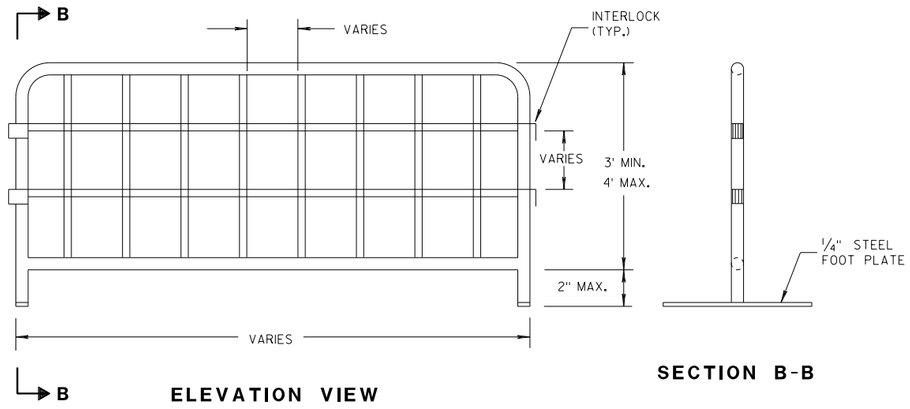
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



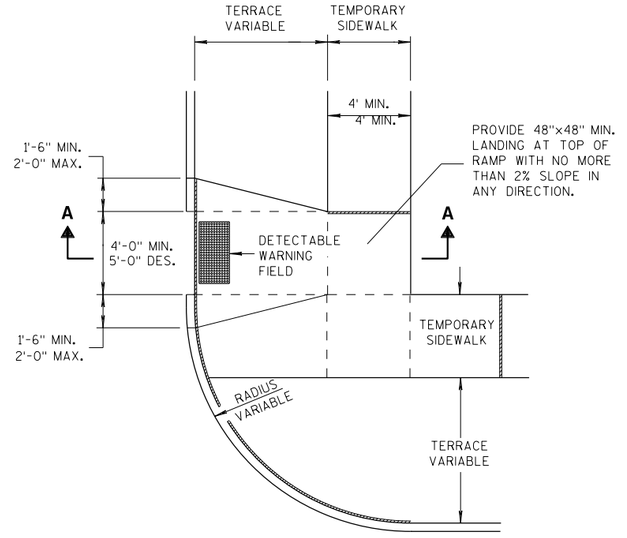
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

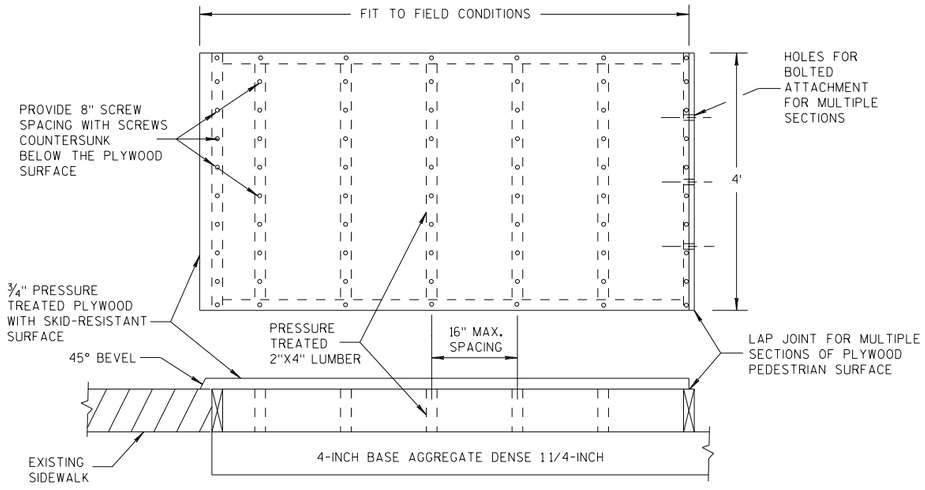
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



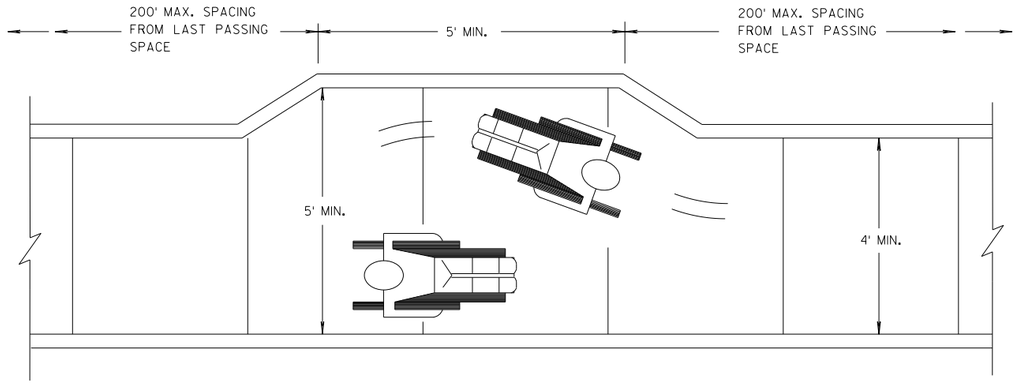
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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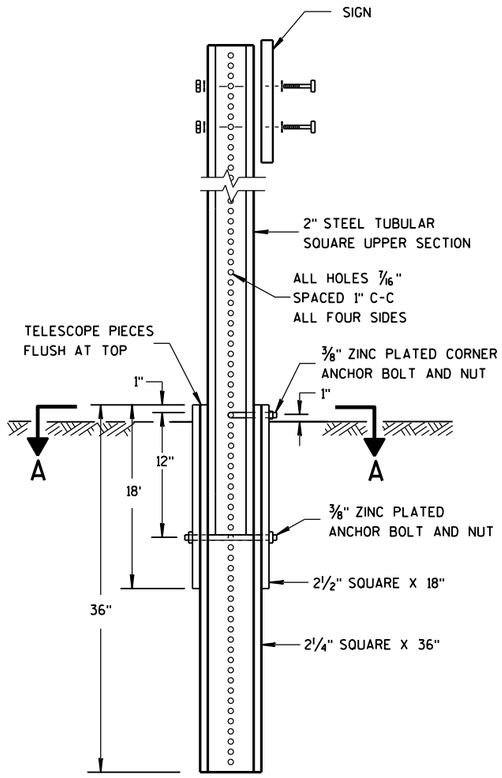
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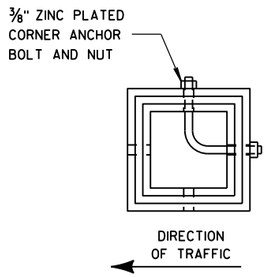
S.D.D. 15 D 30-4c

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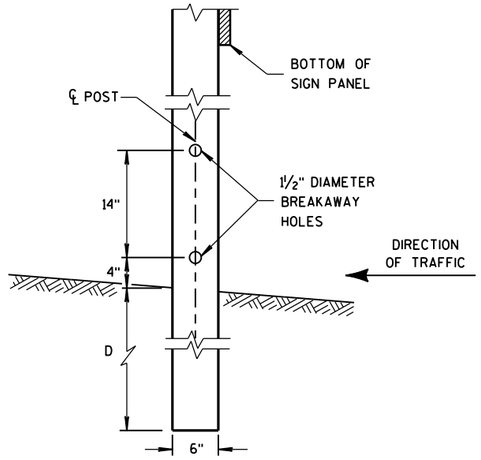
S.D.D. 15 D 30-4c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



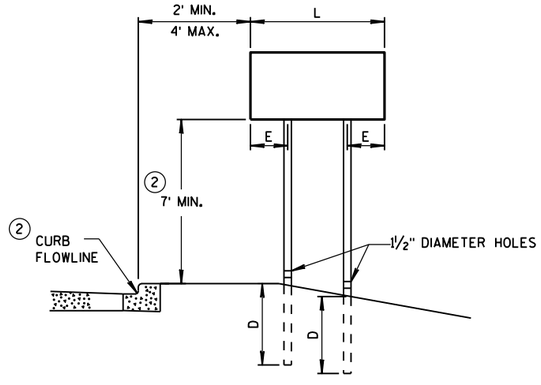
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

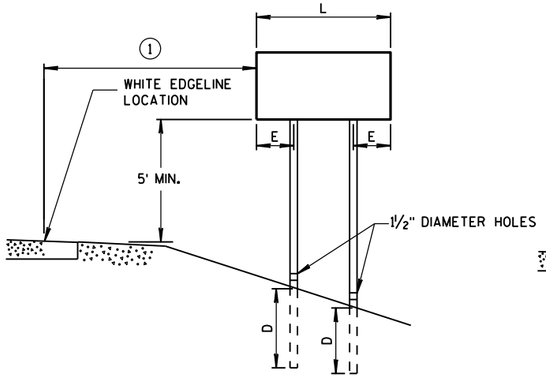
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

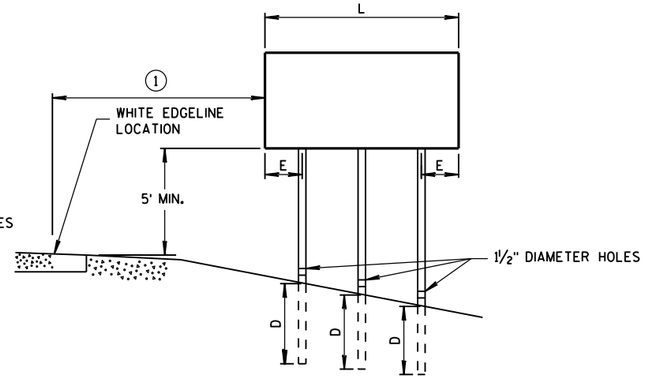
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

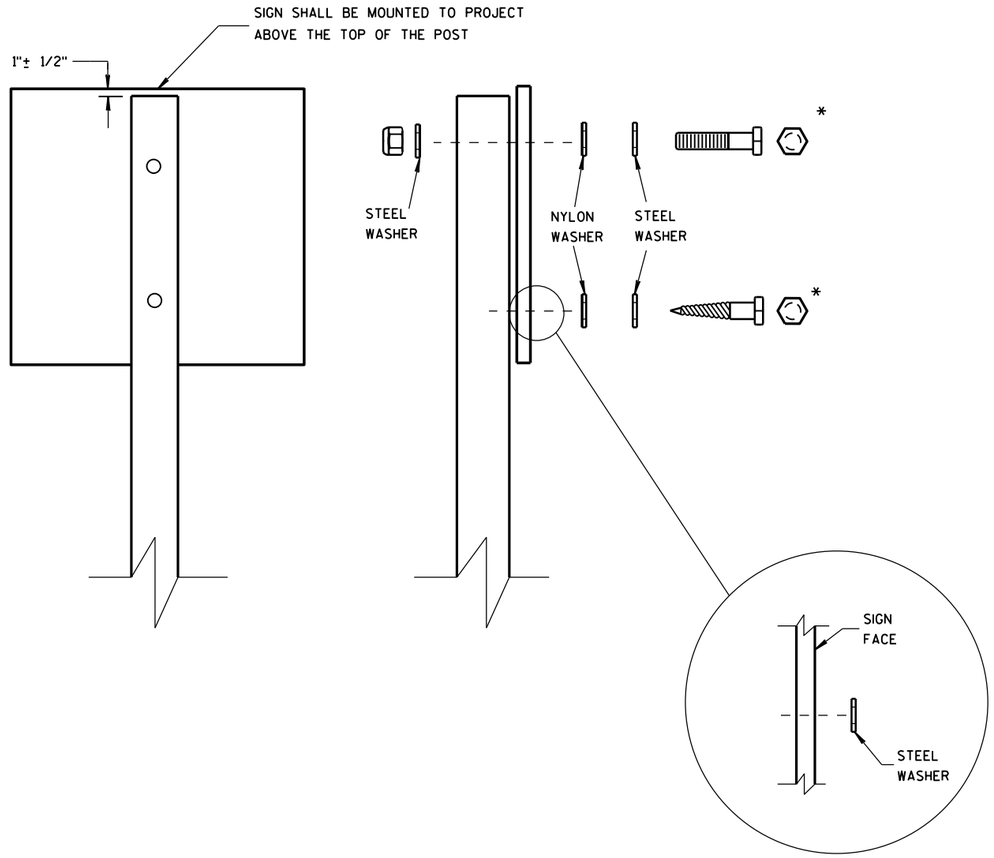
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR SHIFTING RIGHT LANE - REVERSE FOR SHIFTING LEFT LANE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

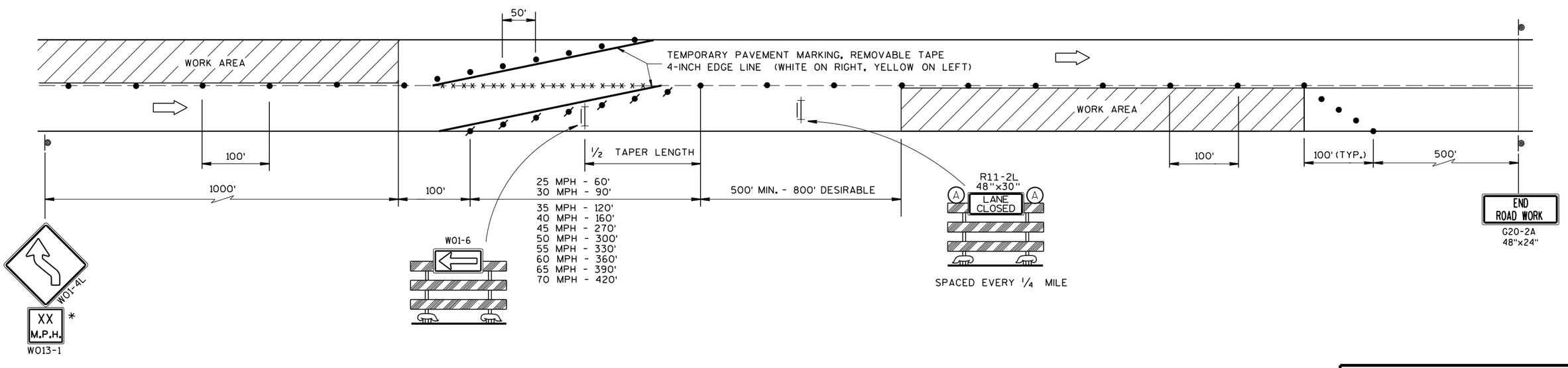
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.



* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

LANE SHIFT MULTI-LANE DIVIDED OR ONE WAY ROAD

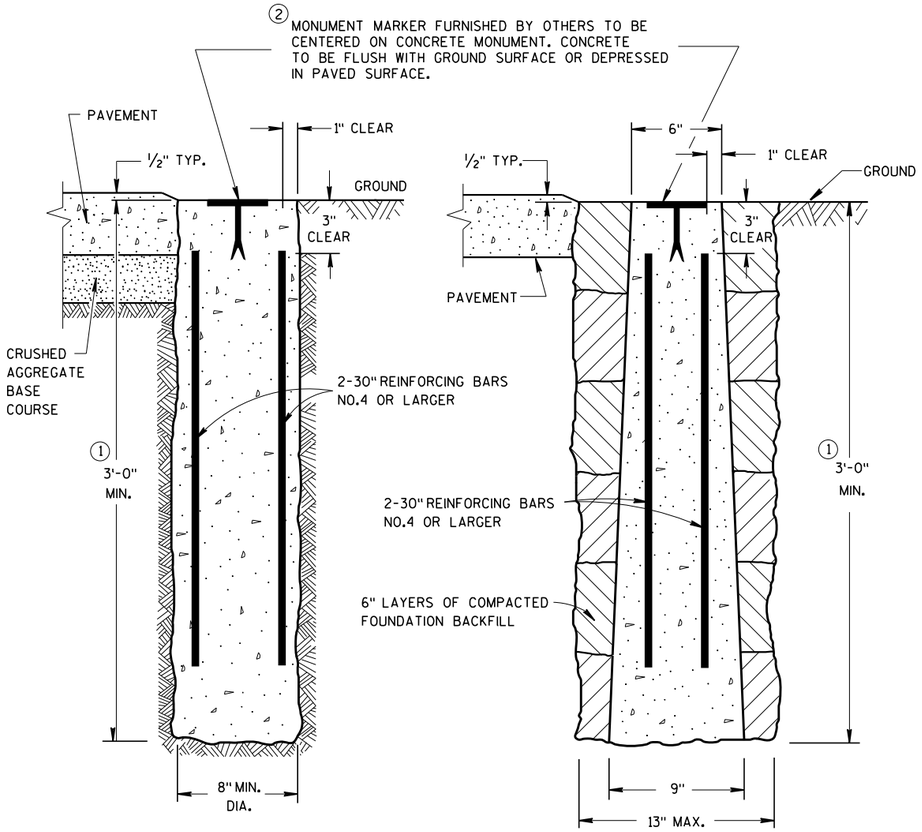
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Andrew I — WORK ZONE E
FHWA

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S.D.D. 15 D 40-1

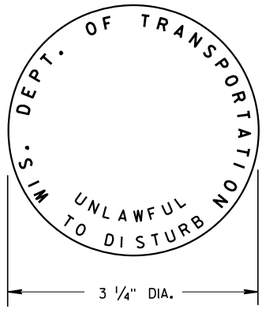


CAST-IN-PLACE

PRECAST

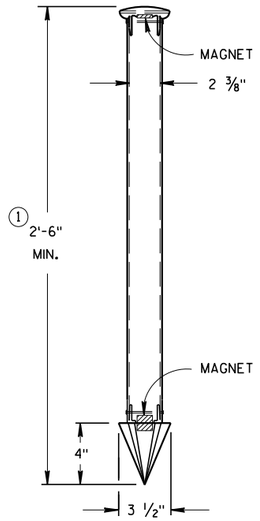
CONCRETE MONUMENTS

TYPE A



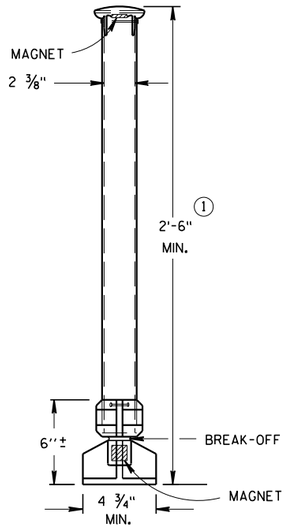
② **WIS DOT MONUMENT MARKER LOGO**

FOR TYPES "A", "C", & "D"



TYPE C

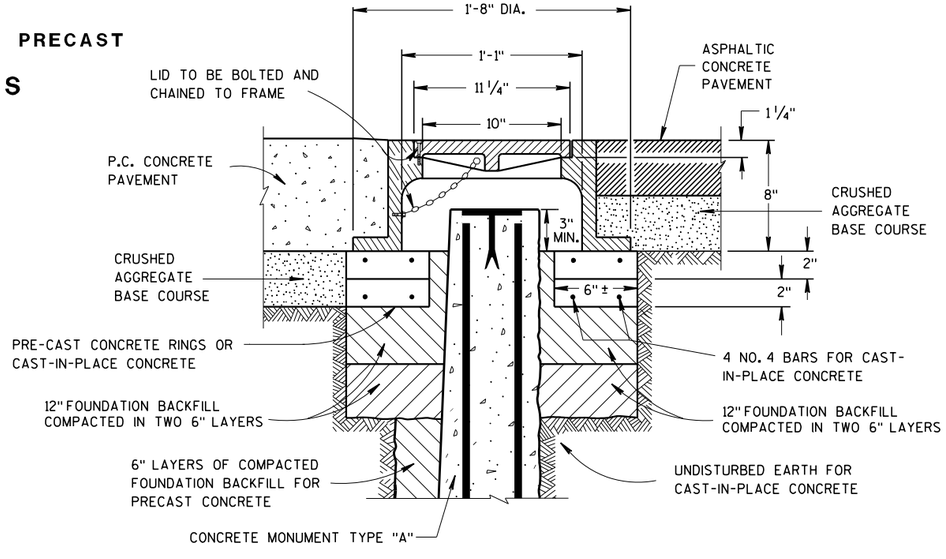
DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

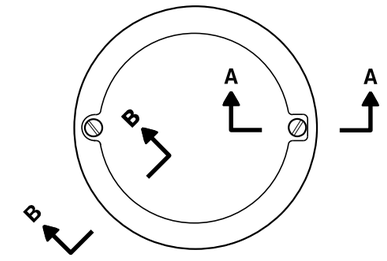
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

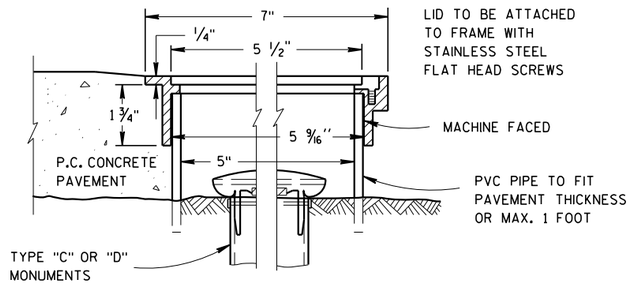
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Raymond A. Kumagai — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

6

S.D.D. 16 A 1-7

DIVISION 1 60TH STREET

STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOLUME (CY) (UNADJUSTED) CUT	INCREMENTAL VOLUME (CY) (UNADJUSTED) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	INCREMENTAL VOLUME (CY) (UNADJUSTED) FILL	INCREMENTAL VOLUME (CY) (UNADJUSTED) EBS	CUMULATIVE VOLUME (CY) CUT 1.00	CUMULATIVE VOLUME (CY) SALVAGED/ UNUSABLE PAVEMENT 1.00	CUMULATIVE VOLUME (CY) EXPANDED FILL 1.15	CUMULATIVE VOLUME (CY) EBS 1.15	MASS ORDINATE
100+83 AH	0.00	57.00	24.83	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101+00	16.87	65.80	24.83	3.80	0.00	38.36	15.52	2.87	0.00	38.36	15.52	3.31	0.00	22.85
101+50	50.00	73.50	24.83	1.70	0.00	128.98	45.99	5.09	0.00	167.35	61.50	9.16	0.00	128.69
102+00	50.00	82.00	24.83	1.50	0.00	143.98	45.99	2.96	0.00	311.33	107.49	12.57	0.00	332.52
102+50	50.00	44.70	24.83	1.70	0.00	117.31	45.99	2.96	0.00	428.64	153.48	15.98	0.00	607.69
103+00	50.00	40.00	24.83	1.40	0.00	78.43	45.99	2.87	0.00	507.07	199.47	19.28	0.00	915.29
103+50	50.00	41.20	24.83	1.80	0.00	75.19	45.99	2.96	0.00	582.25	245.45	22.68	0.00	1252.08
104+00	50.00	46.50	24.83	1.40	0.00	81.20	45.99	2.96	0.00	663.46	291.44	26.09	0.00	1624.10
104+50	50.00	51.60	24.83	0.70	0.00	90.83	45.99	1.94	0.00	754.29	337.43	28.33	0.00	2040.96
105+00	50.00	53.80	24.83	0.40	0.00	97.59	45.99	1.02	0.00	851.88	383.42	29.50	0.00	2509.42
105+50	50.00	52.20	24.83	0.50	0.00	98.15	45.99	0.83	0.00	950.03	429.41	30.46	0.00	3030.05
106+00	50.00	61.60	24.83	1.00	0.00	105.37	45.99	1.39	0.00	1055.40	475.39	32.06	0.00	3610.06
106+50	50.00	52.60	24.83	0.00	0.00	105.74	45.99	0.93	0.00	1161.14	521.38	33.12	0.00	4249.82
107+00	50.00	56.50	24.83	0.00	0.00	101.02	45.99	0.00	0.00	1262.16	567.37	33.12	0.00	4944.61
107+50	50.00	61.70	24.83	2.80	0.00	109.44	45.99	2.59	0.00	1371.60	613.36	36.10	0.00	5702.86
108+00	50.00	59.30	24.83	2.00	0.00	112.04	45.99	4.44	0.00	1483.64	659.34	41.21	0.00	6527.16
108+50	50.00	50.10	24.83	2.40	0.00	101.30	45.99	4.07	0.00	1584.94	705.33	45.90	0.00	7406.76
109+00	50.00	54.80	24.83	2.00	0.00	97.13	45.99	4.07	0.00	1682.07	751.32	50.58	0.00	8337.51
109+50	50.00	50.00	24.83	1.50	0.00	97.04	45.99	3.24	0.00	1779.10	797.31	54.31	0.00	9319.31
110+00	50.00	51.50	24.83	1.50	0.00	93.98	45.99	2.78	0.00	1873.09	843.29	57.50	0.00	10349.10
110+50	50.00	53.20	24.83	1.50	0.00	96.94	45.99	2.78	0.00	1970.03	889.28	60.70	0.00	11429.85
111+00	50.00	51.40	24.83	1.50	0.00	96.85	45.99	2.78	0.00	2066.88	935.27	63.89	0.00	12561.46
111+50	50.00	64.80	24.83	2.10	0.00	107.59	45.99	3.33	0.00	2174.47	981.26	67.73	0.00	13754.68
112+00	50.00	74.50	24.83	2.60	47.00	128.98	45.99	4.35	43.52	2303.46	1027.24	72.73	50.05	15030.89
112+50	50.00	72.80	24.83	2.10	47.80	136.39	45.99	4.35	87.78	2439.85	1073.23	77.74	150.99	16397.50
113+00	50.00	66.50	24.83	0.00	52.80	128.98	45.99	1.94	93.15	2568.83	1119.22	79.97	258.11	17847.11
113+50	50.00	80.20	24.83	0.00	55.50	135.83	45.99	0.00	100.28	2704.66	1165.21	79.97	373.43	19386.56
114+00	50.00	77.70	24.83	0.00	43.20	146.20	45.99	0.00	91.39	2850.86	1211.20	79.97	478.53	21026.23
114+50	50.00	64.30	24.83	0.00	36.00	131.48	45.99	0.00	73.33	2982.35	1257.18	79.97	562.86	22751.39
115+00	50.00	57.50	24.83	0.00	31.60	112.78	45.99	0.00	62.59	3095.12	1303.17	79.97	634.84	24543.35
115+50	50.00	47.90	24.83	0.00	27.60	97.59	45.99	0.00	54.81	3192.72	1349.16	79.97	697.88	26386.90
116+00	50.00	44.70	24.83	0.00	27.60	85.74	45.99	0.00	51.11	3278.46	1395.15	79.97	756.66	28270.21
116+50	50.00	41.57	24.83	0.04	0.00	79.88	45.99	0.04	25.56	3358.34	1441.13	80.01	786.05	30187.42
117+00	50.00	39.10	24.83	0.60	0.00	74.69	45.99	0.59	0.00	3433.03	1487.12	80.70	786.05	32133.33
117+50	50.00	37.10	24.83	1.70	0.00	70.56	45.99	2.13	0.00	3503.59	1533.11	83.15	786.05	34103.80
118+00	50.00	32.50	24.83	2.60	0.00	64.44	45.99	3.98	0.00	3568.03	1579.10	87.72	786.05	36092.74
118+50	50.00	36.60	24.83	1.70	0.00	63.98	45.99	3.98	0.00	3632.01	1625.08	92.30	786.05	38099.66
119+00	50.00	51.20	24.83	0.00	0.00	81.30	45.99	1.57	0.00	3713.31	1671.07	94.11	786.05	40141.90
119+50	50.00	67.20	24.83	0.00	0.00	109.63	45.99	0.00	0.00	3822.94	1717.06	94.11	786.05	42247.78
120+00	50.00	46.80	24.83	0.30	0.00	105.56	45.99	0.28	0.00	3928.49	1763.05	94.43	786.05	44413.22
120+50	50.00	46.70	24.83	0.00	0.00	86.57	45.99	0.28	0.00	4015.07	1809.03	94.75	786.05	46619.26
121+00	50.00	40.10	24.83	0.30	0.00	80.37	45.99	0.28	0.00	4095.44	1855.02	95.07	786.05	48859.67
121+50	50.00	41.10	24.83	1.10	0.00	75.19	45.99	1.30	0.00	4170.62	1901.01	96.56	786.05	51129.29
122+00	50.00	40.69	24.83	0.30	0.00	75.73	45.99	1.30	0.00	4246.35	1947.00	98.05	786.05	53428.64
122+50	50.00	38.50	24.83	0.60	0.00	73.32	45.99	0.83	0.00	4319.68	1992.99	99.01	786.05	55755.33
123+00	50.00	38.70	24.83	0.80	0.00	71.48	45.99	1.30	0.00	4391.16	2038.97	100.50	786.05	58107.52
123+50	50.00	40.90	24.83	0.30	0.00	73.70	45.99	1.02	0.00	4464.86	2084.96	101.67	786.05	60487.42
124+00	50.00	48.90	24.83	0.00	0.00	83.15	45.99	0.28	0.00	4548.01	2130.95	101.99	786.05	62904.49
124+50	50.00	43.10	24.83	0.10	0.00	85.19	45.99	0.09	0.00	4633.20	2176.94	102.10	786.05	65360.75
125+00	50.00	52.40	24.83	0.90	0.00	88.43	45.99	0.93	0.00	4721.62	2222.92	103.16	786.05	67859.45
125+50	50.00	43.70	24.83	1.80	0.00	88.98	45.99	2.50	0.00	4810.60	2268.91	106.04	786.05	70401.14
125+79 BK	28.89	33.70	24.83	1.50	0.00	41.41	26.57	1.77	0.00	4852.01	2295.48	108.07	786.05	72957.67

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DIVISION 1 60TH STREET

STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOLUME (CY) (UNADJUSTED) CUT	INCREMENTAL VOLUME (CY) (UNADJUSTED) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	INCREMENTAL VOLUME (CY) (UNADJUSTED) FILL	INCREMENTAL VOLUME (CY) (UNADJUSTED) EBS	CUMULATIVE VOLUME (CY) CUT 1.00	CUMULATIVE VOLUME (CY) SALVAGED/ UNUSABLE PAVEMENT 1.00	CUMULATIVE VOLUME (CY) EXPANDED FILL 1.15	CUMULATIVE VOLUME (CY) EBS 1.15	MASS ORDINATE
127+15 AH	0.00	66.20	24.83	0.60	0.00	0.00	0.00	0.00	0.00	4852.01	2295.48	108.07	786.05	75514.20
127+50	35.46	61.10	24.83	1.50	0.00	83.59	32.61	1.38	0.00	4935.61	2328.10	109.65	786.05	78121.71
128+00	50.00	61.00	24.83	1.40	0.00	113.06	45.99	2.69	0.00	5048.66	2374.09	112.74	786.05	80796.29
128+50	50.00	70.70	24.83	1.20	0.00	121.94	45.99	2.41	0.00	5170.61	2420.07	115.51	786.05	83546.82
129+00	50.00	77.10	24.83	0.50	0.00	136.85	45.99	1.57	0.00	5307.46	2466.06	117.32	786.05	86388.22
129+50	50.00	39.35	24.83	0.82	0.00	107.82	45.99	1.22	0.00	5415.28	2512.05	118.73	786.05	89291.46
130+00	50.00	44.90	24.83	1.10	0.00	78.01	45.99	1.78	0.00	5493.29	2558.04	120.77	786.05	92226.71
130+50	50.00	48.30	24.83	0.00	0.00	86.30	45.99	1.02	0.00	5579.59	2604.02	121.94	786.05	95202.28
131+00	50.00	45.20	24.83	0.10	0.00	86.57	45.99	0.09	0.00	5666.16	2650.01	122.05	786.05	98218.43
131+50	50.00	48.10	24.83	0.00	0.00	86.39	45.99	0.09	0.00	5752.55	2696.00	122.16	786.05	101274.98
132+00	50.00	55.50	24.83	0.00	0.00	95.93	45.99	0.00	0.00	5848.48	2741.99	122.16	786.05	104381.47
132+50	50.00	58.60	24.83	0.00	0.00	105.65	45.99	0.00	0.00	5954.13	2787.97	122.16	786.05	107547.63
133+00	50.00	54.20	24.83	0.30	0.00	104.44	45.99	0.28	0.00	6058.57	2833.96	122.48	786.05	110772.23
133+50	50.00	51.00	24.83	1.00	0.00	97.41	45.99	1.20	0.00	6155.98	2879.95	123.86	786.05	114048.26
134+00	50.00	53.30	24.83	1.70	0.00	96.57	45.99	2.50	0.00	6252.55	2925.94	126.73	786.05	117374.88
134+50	50.00	62.90	24.83	0.90	0.00	107.59	45.99	2.41	0.00	6360.14	2971.92	129.50	786.05	120763.10
135+00	50.00	67.20	24.83	0.20	0.00	120.46	45.99	1.02	0.00	6480.61	3017.91	130.67	786.05	124225.79
135+50	50.00	68.40	24.83	0.50	0.00	125.56	45.99	0.65	0.00	6606.16	3063.90	131.42	786.05	127768.05
136+00	50.00	65.80	24.83	0.30	0.00	124.26	45.99	0.74	0.00	6730.42	3109.89	132.27	786.05	131388.59
136+50	50.00	64.50	24.83	0.40	0.00	120.65	45.99	0.65	0.00	6851.07	3155.88	133.02	786.05	135083.78
137+00	50.00	52.20	24.83	2.00	0.00	108.06	45.99	2.22	0.00	6959.13	3201.86	135.57	786.05	138841.05
137+50	50.00	50.40	24.83	1.40	0.00	95.00	45.99	3.15	0.00	7054.13	3247.85	139.19	786.05	142647.32
138+00	50.00	47.60	24.83	2.70	0.00	90.74	45.99	3.80	0.00	7144.87	3293.84	143.56	786.05	146498.35
138+50	50.00	51.80	24.83	2.10	0.00	92.04	45.99	4.44	0.00	7236.90	3339.83	148.67	786.05	150395.43
139+00	50.00	53.50	24.83	1.70	0.00	97.50	45.99	3.52	0.00	7334.40	3385.81	152.72	786.05	154344.02
139+50	50.00	42.80	24.83	0.00	0.00	89.17	45.99	1.57	0.00	7423.57	3431.80	154.53	786.05	158335.79
140+00	50.00	67.20	24.83	0.00	0.00	101.85	45.99	0.00	0.00	7525.42	3477.79	154.53	786.05	162383.42
140+50	50.00	79.20	24.83	1.30	0.00	135.56	45.99	1.20	0.00	7660.98	3523.78	155.91	786.05	166520.62
141+00	50.00	71.20	24.83	0.60	0.00	139.26	45.99	1.76	0.00	7800.24	3569.76	157.93	786.05	170751.09
141+50	50.00	61.00	24.83	0.60	0.00	122.41	45.99	1.11	0.00	7922.64	3615.75	159.21	786.05	175057.98
142+00	50.00	54.10	24.83	1.30	0.00	106.57	45.99	1.76	0.00	8029.22	3661.74	161.23	786.05	179425.46
142+50	50.00	51.10	24.83	1.30	0.00	97.41	45.99	2.41	0.00	8126.63	3707.73	164.00	786.05	183844.36
143+00	50.00	54.50	24.83	0.70	0.00	97.78	45.99	1.85	0.00	8224.40	3753.71	166.13	786.05	188315.05
143+50	50.00	54.80	24.83	0.60	0.00	101.20	45.99	1.20	0.00	8325.61	3799.70	167.52	786.05	192840.96
144+00	50.00	51.40	24.83	0.80	0.00	98.33	45.99	1.30	0.00	8423.94	3845.69	169.01	786.05	197419.21
144+50	50.00	51.60	24.83	1.20	0.00	95.37	45.99	1.85	0.00	8519.31	3891.68	171.14	786.05	202046.84
145+00	50.00	53.30	24.83	0.90	0.00	97.13	45.99	1.94	0.00	8616.44	3937.67	173.37	786.05	206725.61
145+50	50.00	54.70	24.83	2.40	0.00	100.00	45.99	3.06	0.00	8716.44	3983.65	176.89	786.05	211458.40
146+00	50.00	49.60	24.83	0.00	0.00	96.57	45.99	2.22	0.00	8813.01	4029.64	179.44	786.05	216241.77
146+50	50.00	40.90	24.83	0.80	0.00	83.80	45.99	0.74	0.00	8896.81	4075.63	180.29	786.05	221062.96
147+00	50.00	59.10	24.83	1.00	0.00	92.59	45.99	1.67	0.00	8989.40	4121.62	182.21	786.05	225930.74
147+50	50.00	60.80	24.83	0.60	0.00	111.02	45.99	1.48	0.00	9100.42	4167.60	183.91	786.05	230863.56
148+00	50.00	58.50	24.83	0.80	0.00	110.46	45.99	1.30	0.00	9210.88	4213.59	185.41	786.05	235860.86
148+50	50.00	56.34	24.83	0.82	0.00	106.33	45.99	1.50	0.00	9317.22	4259.58	187.13	786.05	240918.50
149+00	50.00	53.00	24.83	1.20	32.20	101.24	45.99	1.87	29.81	9418.46	4305.57	189.28	820.33	246031.39
149+50	50.00	50.20	24.83	2.50	32.20	95.56	45.99	3.43	59.63	9514.01	4351.55	193.22	888.91	251193.85
150+00	50.00	58.50	24.83	2.10	32.20	100.65	45.99	4.26	59.63	9614.66	4397.54	198.12	957.48	256410.97
150+50	50.00	74.80	24.83	0.50	36.80	123.43	45.99	2.41	63.89	9738.09	4443.53	200.89	1030.95	261705.53
151+00	50.00	88.90	24.83	0.10	43.00	151.57	45.99	0.56	73.89	9889.66	4489.52	201.53	1115.93	267105.67
151+50	50.00	99.80	24.83	0.30	47.80	174.72	45.99	0.37	84.07	10064.38	4535.50	201.95	1212.61	272634.55
152+00	50.00	86.30	24.83	1.60	47.80	172.31	45.99	1.76	88.52	10236.70	4581.49	203.98	1314.41	278289.76

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DIVISION 1 60TH STREET

STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOLUME (CY) (UNADJUSTED) CUT	INCREMENTAL VOLUME (CY) (UNADJUSTED) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	INCREMENTAL VOLUME (CY) (UNADJUSTED) FILL	INCREMENTAL VOLUME (CY) (UNADJUSTED) EBS	CUMULATIVE VOLUME (CY) CUT 1.00	CUMULATIVE VOLUME (CY) SALVAGED/ UNUSABLE PAVEMENT 1.00	CUMULATIVE VOLUME (CY) EXPANDED FILL 1.15	CUMULATIVE VOLUME (CY) EBS 1.15	MASS ORDINATE
152+50	50.00	79.20	24.83	0.00	53.30	153.24	45.99	1.48	93.61	10389.94	4627.48	205.68	1422.06	284052.22
153+00	50.00	82.30	24.83	0.00	0.00	149.54	45.99	0.00	49.35	10539.48	4673.47	205.68	1478.81	289918.23
153+50	50.00	88.04	24.83	1.49	0.00	157.72	45.99	1.38	0.00	10697.20	4719.46	207.27	1478.81	295895.97
154+00	50.00	59.50	24.83	0.30	0.00	136.61	45.99	1.66	0.00	10833.81	4765.44	209.17	1478.81	301964.34
154+50	50.00	64.30	24.83	0.10	0.00	114.63	45.99	0.37	0.00	10948.44	4811.43	209.60	1478.81	308101.35
155+00	50.00	63.50	24.83	0.40	0.00	118.33	45.99	0.46	0.00	11066.77	4857.42	210.13	1478.81	314310.71
155+50	50.00	56.50	24.83	0.40	0.00	111.11	45.99	0.74	0.00	11177.88	4903.41	210.98	1478.81	320585.19
156+00	50.00	50.40	24.83	1.10	0.00	98.98	45.99	1.39	0.00	11276.87	4949.39	212.58	1478.81	326912.66
156+50	50.00	46.20	24.83	2.00	28.60	89.44	45.99	2.87	26.48	11366.31	4995.38	215.88	1509.27	333283.59
157+00	50.00	58.10	24.83	0.00	28.60	96.57	45.99	1.85	52.96	11462.88	5041.37	218.01	1570.18	339705.10
157+50	50.00	52.50	24.83	0.80	28.60	102.41	45.99	0.74	52.96	11565.29	5087.36	218.86	1631.08	346183.04
158+00	50.00	53.40	24.83	0.80	28.60	98.06	45.99	1.48	52.96	11663.35	5133.34	220.57	1691.99	352713.04
158+50	50.00	50.04	24.83	0.86	28.60	95.78	45.99	1.54	52.96	11759.13	5179.33	222.33	1752.90	359292.84
159+00	50.00	43.20	24.83	0.00	38.10	86.33	45.99	0.80	61.76	11845.46	5225.32	223.25	1823.92	365912.98
159+32 BK	31.51	31.80	24.83	0.00	24.00	43.76	28.98	0.00	36.24	11889.22	5254.30	223.25	1865.59	372547.90
						11889.22	5254.30	194.13	1622.26					

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PROJECT NO: 2415-00-71	HWY: S. 60TH STREET	COUNTY: MILWAUKEE	EARTHWORK DATA	SHEET NO: 346	E

FILE NAME : P:\49XX\4960_DP.S60TH.MKE\10 PSE\MQS\POWERPOINT MQ TEMPLATES\090101_EW.PPTM PLOT DATE 7/3/2018 2:00 PM PLOT BY : EMCS, INC

DIVISION 2 60TH STREET

STATION		DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOLUME (CY) (UNADJUSTED) CUT	INCREMENTAL VOLUME (CY) (UNADJUSTED) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	INCREMENTAL VOLUME (CY) (UNADJUSTED) FILL	INCREMENTAL VOLUME (CY) (UNADJUSTED) EBS	CUMULATIVE VOLUME (CY) CUT 1.00	CUMULATIVE VOLUME (CY) SALVAGED/ UNUSABLE PAVEMENT 1.00	CUMULATIVE VOLUME (CY) EXPANDED FILL 1.15	CUMULATIVE VOLUME (CY) EBS 1.15	MASS ORDINATE
100+83	AH	0.00	40.20	24.83	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101+00		16.87	45.30	24.83	2.00	0.00	26.71	15.52	1.66	0.00	26.71	15.52	1.90	0.00	11.19
101+50		50.00	50.90	24.83	1.10	0.00	89.07	45.99	2.87	0.00	115.78	61.50	5.21	0.00	65.48
102+00		50.00	60.90	24.83	0.60	0.00	103.52	45.99	1.57	0.00	219.30	107.49	7.02	0.00	177.29
102+50		50.00	73.00	24.83	0.00	0.00	123.98	45.99	0.56	0.00	343.28	153.48	7.65	0.00	367.09
103+00		50.00	68.00	24.83	0.10	0.00	130.56	45.99	0.09	0.00	473.84	199.47	7.76	0.00	641.47
103+50		50.00	55.60	24.83	0.40	0.00	114.44	45.99	0.46	0.00	588.28	245.45	8.29	0.00	984.30
104+00		50.00	58.60	24.83	0.00	0.00	105.74	45.99	0.37	0.00	694.03	291.44	8.72	0.00	1386.88
104+50		50.00	49.60	24.83	1.20	0.00	100.19	45.99	1.11	0.00	794.21	337.43	10.00	0.00	1843.66
105+00		50.00	53.00	24.83	0.50	0.00	95.00	45.99	1.57	0.00	889.21	383.42	11.81	0.00	2349.46
105+50		50.00	52.40	24.83	0.80	0.00	97.59	45.99	1.20	0.00	986.80	429.41	13.19	0.00	2906.85
106+00		50.00	71.90	24.83	1.20	0.00	115.09	45.99	1.85	0.00	1101.90	475.39	15.32	0.00	3533.36
106+50		50.00	64.70	24.83	0.00	0.00	126.48	45.99	1.11	0.00	1228.38	521.38	16.60	0.00	4240.35
107+00		50.00	57.60	24.83	0.00	0.00	113.24	45.99	0.00	0.00	1341.62	567.37	16.60	0.00	5014.60
107+50		50.00	45.30	24.83	0.00	0.00	95.28	45.99	0.00	0.00	1436.90	613.36	16.60	0.00	5838.14
108+00		50.00	37.20	24.83	0.30	0.00	76.39	45.99	0.28	0.00	1513.28	659.34	16.92	0.00	6692.09
108+50		50.00	33.80	24.83	0.00	0.00	65.74	45.99	0.28	0.00	1579.03	705.33	17.24	0.00	7565.78
109+00		50.00	33.10	24.83	0.00	0.00	61.94	45.99	0.00	0.00	1640.97	751.32	17.24	0.00	8455.43
109+50		50.00	34.60	24.83	0.00	0.00	62.69	45.99	0.00	0.00	1703.66	797.31	17.24	0.00	9361.78
110+00		50.00	34.60	24.83	0.00	0.00	64.07	45.99	0.00	0.00	1767.73	843.29	17.24	0.00	10286.22
110+50		50.00	35.50	24.83	0.00	0.00	64.91	45.99	0.00	0.00	1832.64	889.28	17.24	0.00	11229.57
111+00		50.00	33.40	24.83	0.00	0.00	63.80	45.99	0.00	0.00	1896.43	935.27	17.24	0.00	12190.73
111+50		50.00	29.70	24.83	0.00	0.00	58.43	45.99	0.00	0.00	1954.86	981.26	17.24	0.00	13164.34
112+00		50.00	32.80	24.83	0.00	24.00	57.87	45.99	0.00	22.22	2012.73	1027.24	17.24	25.56	14149.82
112+50		50.00	32.60	24.83	0.00	28.60	60.56	45.99	0.00	48.70	2073.28	1073.23	17.24	81.56	15149.87
113+00		50.00	32.20	24.83	0.00	34.40	60.00	45.99	0.00	58.33	2133.28	1119.22	17.24	148.65	16163.94
113+50		50.00	30.30	24.83	0.00	25.20	57.87	45.99	0.00	55.19	2191.16	1165.21	17.24	212.11	17189.89
114+00		50.00	32.90	24.83	0.00	17.00	58.52	45.99	0.00	39.07	2249.67	1211.20	17.24	257.05	18228.37
114+50		50.00	45.00	24.83	0.00	22.40	72.13	45.99	0.00	36.48	2321.80	1257.18	17.24	299.00	19292.99
115+00		50.00	39.30	24.83	0.00	20.60	78.06	45.99	0.00	39.81	2399.86	1303.17	17.24	344.79	20389.67
115+50		50.00	38.20	24.83	0.00	21.70	71.76	45.99	0.00	39.17	2471.62	1349.16	17.24	389.83	21512.13
116+00		50.00	47.50	24.83	0.00	27.40	79.35	45.99	0.00	45.46	2550.97	1395.15	17.24	442.11	22667.96
116+50		50.00	57.83	24.83	1.84	0.00	97.53	45.99	1.70	25.37	2648.50	1441.13	19.20	471.29	23875.32
117+00		50.00	59.80	24.83	1.30	0.00	108.92	45.99	2.91	0.00	2757.41	1487.12	22.54	471.29	25145.62
117+50		50.00	62.20	24.83	1.70	0.00	112.96	45.99	2.78	0.00	2870.38	1533.11	25.73	471.29	26482.88
118+00		50.00	62.60	24.83	1.70	0.00	115.56	45.99	3.15	0.00	2985.93	1579.10	29.36	471.29	27889.72
118+50		50.00	63.20	24.83	1.10	0.00	116.48	45.99	2.59	0.00	3102.41	1625.08	32.34	471.29	29367.05
119+00		50.00	64.50	24.83	0.80	0.00	118.24	45.99	1.76	0.00	3220.66	1671.07	34.36	471.29	30916.64
119+50		50.00	77.40	24.83	0.70	0.00	131.39	45.99	1.39	0.00	3352.04	1717.06	35.96	471.29	32551.62
120+00		50.00	57.10	24.83	0.00	0.00	124.54	45.99	0.65	0.00	3476.58	1763.05	36.70	471.29	34265.15
120+50		50.00	64.80	24.83	0.00	0.00	112.87	45.99	0.00	0.00	3589.45	1809.03	36.70	471.29	36045.57
121+00		50.00	63.60	24.83	0.00	0.00	118.89	45.99	0.00	0.00	3708.34	1855.02	36.70	471.29	37898.89
121+50		50.00	51.40	24.83	0.40	0.00	106.48	45.99	0.37	0.00	3814.82	1901.01	37.13	471.29	39812.70
122+00		50.00	47.56	24.83	0.84	0.00	91.63	45.99	1.15	0.00	3906.45	1947.00	38.45	471.29	41772.15
122+50		50.00	58.30	24.83	0.00	0.00	98.02	45.99	0.78	0.00	4004.47	1992.99	39.34	471.29	43783.64
123+00		50.00	50.40	24.83	0.10	0.00	100.65	45.99	0.09	0.00	4105.12	2038.97	39.45	471.29	45849.78
123+50		50.00	53.00	24.83	0.00	0.00	95.74	45.99	0.09	0.00	4200.86	2084.96	39.56	471.29	47965.68
124+00		50.00	57.70	24.83	0.00	0.00	102.50	45.99	0.00	0.00	4303.36	2130.95	39.56	471.29	50138.09
124+50		50.00	68.00	24.83	0.90	0.00	116.39	45.99	0.83	0.00	4419.75	2176.94	40.51	471.29	52380.91
125+00		50.00	69.40	24.83	0.50	0.00	127.22	45.99	1.30	0.00	4546.97	2222.92	42.01	471.29	54704.95
125+50		50.00	60.20	24.83	1.60	0.00	120.00	45.99	1.94	0.00	4666.97	2268.91	44.24	471.29	57103.01
125+79	BK	28.89	45.90	24.83	0.00	0.00	56.76	26.57	0.86	0.00	4723.73	2295.48	45.23	471.29	59531.26

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DIVISION 2 60TH STREET														
		AREA (SF)				INCREMENTAL VOLUME (CY) (UNADJUSTED)				CUMULATIVE VOLUME (CY)				
STATION	DISTANCE	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	SALVAGED/ UNUSABLE PAVEMENT 1.00	EXPANDED FILL 1.15	EBS 1.15	MASS ORDINATE
127+15 AH	0.00	35.60	24.83	0.00	0.00	0.00	0.00	0.00	0.00	4723.73	2295.48	45.23	471.29	61959.51
127+50	35.46	37.50	24.83	0.70	0.00	48.00	32.61	0.46	0.00	4771.74	2328.10	45.75	471.29	64403.15
128+00	50.00	54.70	24.83	0.00	0.00	85.37	45.99	0.65	0.00	4857.11	2374.09	46.50	471.29	66886.17
128+50	50.00	62.80	24.83	0.00	0.00	108.80	45.99	0.00	0.00	4965.90	2420.07	46.50	471.29	69432.00
129+00	50.00	66.30	24.83	0.00	0.00	119.54	45.99	0.00	0.00	5085.44	2466.06	46.50	471.29	72051.38
129+50	50.00	48.91	24.83	0.00	0.00	106.68	45.99	0.00	0.00	5192.12	2512.05	46.50	471.29	74731.45
130+00	50.00	44.00	24.83	0.00	0.00	86.03	45.99	0.00	0.00	5278.14	2558.04	46.50	471.29	77451.56
130+50	50.00	52.30	24.83	0.20	0.00	89.17	45.99	0.19	0.00	5367.31	2604.02	46.71	471.29	80214.84
131+00	50.00	60.60	24.83	0.60	0.00	104.54	45.99	0.74	0.00	5471.85	2650.01	47.56	471.29	83036.68
131+50	50.00	62.50	24.83	0.90	0.00	113.98	45.99	1.39	0.00	5585.83	2696.00	49.16	471.29	85926.51
132+00	50.00	76.60	24.83	1.20	0.00	128.80	45.99	1.94	0.00	5714.62	2741.99	51.40	471.29	88899.15
132+50	50.00	56.60	24.83	0.20	0.00	123.33	45.99	1.30	0.00	5837.96	2787.97	52.89	471.29	91949.13
133+00	50.00	54.00	24.83	0.00	0.00	102.41	45.99	0.19	0.00	5940.37	2833.96	53.10	471.29	95055.54
133+50	50.00	51.40	24.83	0.50	0.00	97.59	45.99	0.46	0.00	6037.96	2879.95	53.63	471.29	98213.54
134+00	50.00	55.10	24.83	0.10	0.00	98.61	45.99	0.56	0.00	6136.57	2925.94	54.27	471.29	101424.18
134+50	50.00	64.50	24.83	0.40	0.00	110.74	45.99	0.46	0.00	6247.31	2971.92	54.81	471.29	104699.56
135+00	50.00	70.10	24.83	0.10	0.00	124.63	45.99	0.46	0.00	6371.94	3017.91	55.34	471.29	108053.59
135+50	50.00	74.60	24.83	0.10	0.00	133.98	45.99	0.19	0.00	6505.92	3063.90	55.55	471.29	111495.61
136+00	50.00	69.80	24.83	0.70	0.00	133.70	45.99	0.74	0.00	6639.62	3109.89	56.40	471.29	115025.35
136+50	50.00	79.40	24.83	0.00	0.00	138.15	45.99	0.65	0.00	6777.77	3155.88	57.15	471.29	118647.25
137+00	50.00	67.30	24.83	0.00	0.00	135.83	45.99	0.00	0.00	6913.61	3201.86	57.15	471.29	122358.99
137+50	50.00	60.70	24.83	0.20	0.00	118.52	45.99	0.19	0.00	7032.12	3247.85	57.36	471.29	126143.26
138+00	50.00	65.00	24.83	0.30	0.00	116.39	45.99	0.46	0.00	7148.51	3293.84	57.89	471.29	129997.94
138+50	50.00	73.00	24.83	0.40	0.00	127.78	45.99	0.65	0.00	7276.29	3339.83	58.64	471.29	133934.40
139+00	50.00	78.30	24.83	2.10	0.00	140.09	45.99	2.31	0.00	7416.38	3385.81	61.30	471.29	137964.98
139+50	50.00	78.70	24.83	0.00	0.00	145.37	45.99	1.94	0.00	7561.75	3431.80	63.54	471.29	142094.93
140+00	50.00	43.60	24.83	0.00	0.00	113.24	45.99	0.00	0.00	7675.00	3477.79	63.54	471.29	146292.14
140+50	50.00	62.50	24.83	1.00	0.00	98.24	45.99	0.93	0.00	7773.24	3523.78	64.60	471.29	150541.59
141+00	50.00	61.30	24.83	1.10	0.00	114.63	45.99	1.94	0.00	7887.87	3569.76	66.84	471.29	154859.70
141+50	50.00	59.50	24.83	1.00	0.00	111.85	45.99	1.94	0.00	7999.72	3615.75	69.07	471.29	159243.66
142+00	50.00	57.30	24.83	1.20	0.00	108.15	45.99	2.04	0.00	8107.87	3661.74	71.42	471.29	163689.79
142+50	50.00	58.70	24.83	2.20	0.00	107.41	45.99	3.15	0.00	8215.27	3707.73	75.04	471.29	168197.33
143+00	50.00	64.70	24.83	1.30	0.00	114.26	45.99	3.24	0.00	8329.53	3753.71	78.76	471.29	172773.15
143+50	50.00	67.10	24.83	2.20	0.00	122.04	45.99	3.24	0.00	8451.57	3799.70	82.49	471.29	177425.02
144+00	50.00	65.70	24.83	0.80	0.00	122.96	45.99	2.78	0.00	8574.53	3845.69	85.68	471.29	182153.86
144+50	50.00	66.70	24.83	0.50	0.00	122.59	45.99	1.20	0.00	8697.12	3891.68	87.07	471.29	186959.31
145+00	50.00	75.40	24.83	0.80	0.00	131.57	45.99	1.20	0.00	8828.70	3937.67	88.45	471.29	191850.34
145+50	50.00	72.60	24.83	0.90	0.00	137.04	45.99	1.57	0.00	8965.74	3983.65	90.26	471.29	196832.42
146+00	50.00	58.10	24.83	3.60	0.00	121.02	45.99	4.17	0.00	9086.75	4029.64	95.06	471.29	201889.54
146+50	50.00	66.80	24.83	0.00	0.00	115.65	45.99	3.33	0.00	9202.40	4075.63	98.89	471.29	207016.31
147+00	50.00	70.80	24.83	0.10	0.00	127.41	45.99	0.09	0.00	9329.81	4121.62	98.99	471.29	212224.51
147+50	50.00	74.00	24.83	0.00	0.00	134.07	45.99	0.09	0.00	9463.88	4167.60	99.10	471.29	217520.79
148+00	50.00	79.30	24.83	0.00	0.00	141.94	45.99	0.00	0.00	9605.83	4213.59	99.10	471.29	222913.02
148+50	50.00	81.80	24.83	0.00	0.00	149.17	45.99	0.00	0.00	9755.00	4259.58	99.10	471.29	228408.44
149+00	50.00	78.00	24.83	0.20	32.20	147.96	45.99	0.19	29.81	9902.96	4305.57	99.31	505.57	234005.83
149+50	50.00	71.40	24.83	0.60	32.20	138.33	45.99	0.74	59.63	10041.29	4351.55	100.17	574.15	239695.57
150+00	50.00	70.30	24.83	3.60	32.20	131.20	45.99	3.89	59.63	10172.50	4397.54	104.64	642.72	245470.52
150+50	50.00	53.30	24.83	0.60	28.60	114.44	45.99	3.89	56.30	10286.94	4443.53	109.11	707.46	251313.93
151+00	50.00	52.50	24.83	1.40	28.60	97.96	45.99	1.85	52.96	10384.90	4489.52	111.24	768.37	257209.32
151+50	50.00	51.40	24.83	2.80	28.60	96.20	45.99	3.89	52.96	10481.11	4535.50	115.71	829.28	263154.92
152+00	50.00	49.70	24.83	2.20	28.60	93.61	45.99	4.63	52.96	10574.72	4581.49	121.04	890.19	269148.14

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DIVISION 2 60TH STREET														
		AREA (SF)				INCREMENTAL VOLUME (CY) (UNADJUSTED)				CUMULATIVE VOLUME (CY)				
STATION	DISTANCE	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	SALVAGED/ UNUSABLE PAVEMENT 1.00	EXPANDED FILL 1.15	EBS 1.15	MASS ORDINATE
152+50	50.00	39.50	24.83	0.00	29.40	82.59	45.99	2.04	53.70	10657.31	4627.48	123.38	951.94	275177.97
153+00	50.00	40.60	24.83	0.00	0.00	74.17	45.99	0.00	27.22	10731.48	4673.47	123.38	983.25	281235.98
153+50	50.00	49.30	24.83	1.57	0.00	83.24	45.99	1.45	0.00	10814.72	4719.46	125.05	983.25	287331.25
154+00	50.00	55.30	24.83	0.40	0.00	96.85	45.99	1.82	0.00	10911.57	4765.44	127.15	983.25	293477.37
154+50	50.00	55.70	24.83	0.40	0.00	102.78	45.99	0.74	0.00	11014.35	4811.43	128.00	983.25	299680.29
155+00	50.00	55.00	24.83	0.30	0.00	102.50	45.99	0.65	0.00	11116.85	4857.42	128.75	983.25	305939.72
155+50	50.00	54.10	24.83	0.20	0.00	101.02	45.99	0.46	0.00	11217.87	4903.41	129.28	983.25	312254.18
156+00	50.00	62.30	24.83	0.00	0.00	107.78	45.99	0.19	0.00	11325.64	4949.39	129.49	983.25	318630.43
156+50	50.00	52.70	24.83	1.10	28.60	106.48	45.99	1.02	26.48	11432.12	4995.38	130.66	1013.70	325067.17
157+00	50.00	60.20	24.83	0.50	28.60	104.54	45.99	1.48	52.96	11536.66	5041.37	132.37	1074.61	331562.46
157+50	50.00	68.30	24.83	0.20	28.60	118.98	45.99	0.65	52.96	11655.64	5087.36	133.11	1135.52	338130.75
158+00	50.00	63.80	24.83	173.30	28.60	122.31	45.99	160.65	52.96	11777.96	5133.34	317.86	1196.43	344775.36
158+50	50.00	56.65	24.83	0.96	28.60	111.53	45.99	161.35	52.96	11889.49	5179.33	503.41	1257.33	351485.52
159+00	50.00	45.50	24.83	2.10	28.60	94.58	45.99	2.83	52.96	11984.07	5225.32	506.67	1318.24	358244.27
159+32 BK	31.51	67.30	24.83	0.00	57.30	65.82	28.98	1.23	50.12	12049.89	5254.30	508.08	1375.88	365039.86
						12049.89	5254.30	441.81	1196.42					

DIVISION 3 60TH STREET

STATION		DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOLUME (CY) (UNADJUSTED) CUT	INCREMENTAL VOLUME (CY) (UNADJUSTED) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	INCREMENTAL VOLUME (CY) (UNADJUSTED) FILL	INCREMENTAL VOLUME (CY) (UNADJUSTED) EBS	CUMULATIVE VOLUME (CY) CUT 1.00	CUMULATIVE VOLUME (CY) SALVAGED/ UNUSABLE PAVEMENT 1.00	CUMULATIVE VOLUME (CY) EXPANDED FILL 1.15	CUMULATIVE VOLUME (CY) EBS 1.15	MASS ORDINATE
102+50	AH	0.00	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103+00		50.00	22.60	0.00	0.00	0.00	52.87	0.00	0.00	0.00	52.87	0.00	0.00	0.00	52.87
103+50		50.00	15.20	0.00	0.00	0.00	35.00	0.00	0.00	0.00	87.87	0.00	0.00	0.00	140.74
104+00		50.00	13.60	0.00	0.00	0.00	26.67	0.00	0.00	0.00	114.54	0.00	0.00	0.00	255.28
104+50		50.00	17.10	0.00	0.00	0.00	28.43	0.00	0.00	0.00	142.96	0.00	0.00	0.00	398.24
105+00		50.00	27.50	0.00	0.00	0.00	41.30	0.00	0.00	0.00	184.26	0.00	0.00	0.00	582.50
105+50	BK	50.00	36.70	0.00	0.00	0.00	59.44	0.00	0.00	0.00	243.70	0.00	0.00	0.00	826.20
120+00	AH	0.00	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	243.70	0.00	0.00	0.00	1069.91
120+50		50.00	12.00	0.00	2.40	0.00	23.98	0.00	2.22	0.00	267.69	0.00	2.56	0.00	1337.59
121+00		50.00	13.10	0.00	1.60	0.00	23.24	0.00	3.70	0.00	290.93	0.00	6.81	0.00	1628.52
121+50		50.00	11.00	0.00	2.10	0.00	22.31	0.00	3.43	0.00	313.24	0.00	10.75	0.00	1941.76
122+00		50.00	10.37	0.00	1.44	0.00	19.79	0.00	3.28	0.00	333.03	0.00	14.52	0.00	2274.79
122+50		50.00	29.90	0.00	0.00	0.00	37.29	0.00	1.33	0.00	370.31	0.00	16.06	0.00	2645.10
123+00		50.00	11.20	0.00	1.00	0.00	38.06	0.00	0.93	0.00	408.37	0.00	17.12	0.00	3053.47
123+50		50.00	12.20	0.00	0.80	0.00	21.67	0.00	1.67	0.00	430.04	0.00	19.04	0.00	3483.51
124+00		50.00	15.10	0.00	0.30	0.00	25.28	0.00	1.02	0.00	455.31	0.00	20.21	0.00	3938.82
124+50	BK	50.00	10.70	0.00	0.30	0.00	23.89	0.00	0.56	0.00	479.20	0.00	20.85	0.00	4418.03
129+50	AH	0.00	17.16	0.00	1.40	0.00	0.00	0.00	0.00	0.00	479.20	0.00	20.85	0.00	4897.23
130+00		50.00	34.90	0.00	0.00	0.00	48.20	0.00	1.30	0.00	527.41	0.00	22.34	0.00	5424.64
130+50		50.00	32.10	0.00	0.00	0.00	62.04	0.00	0.00	0.00	589.44	0.00	22.34	0.00	6014.08
131+00		50.00	17.90	0.00	0.40	0.00	46.30	0.00	0.37	0.00	635.74	0.00	22.77	0.00	6649.82
131+50	BK	50.00	10.50	0.00	0.70	0.00	26.30	0.00	1.02	0.00	662.04	0.00	23.94	0.00	7311.86
154+00	AH	0.00	41.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	662.04	0.00	23.94	0.00	7973.90
154+50		50.00	38.30	0.00	0.00	0.00	73.61	0.00	0.00	0.00	735.65	0.00	23.94	0.00	8709.55
155+00		50.00	37.40	0.00	0.00	0.00	70.09	0.00	0.00	0.00	805.74	0.00	23.94	0.00	9515.29
155+50		50.00	26.70	0.00	0.00	0.00	59.35	0.00	0.00	0.00	865.09	0.00	23.94	0.00	10380.38
156+00		50.00	24.70	0.00	0.00	0.00	47.59	0.00	0.00	0.00	912.69	0.00	23.94	0.00	11293.06
156+50		50.00	24.20	0.00	0.00	7.20	45.28	0.00	0.00	6.67	957.96	0.00	23.94	7.67	12251.03
157+00		50.00	22.80	0.00	0.00	9.20	43.52	0.00	0.00	15.19	1001.48	0.00	23.94	25.13	13252.51
157+50		50.00	40.70	0.00	0.00	15.50	58.80	0.00	0.00	22.87	1060.28	0.00	23.94	51.43	14312.79
158+00		50.00	47.00	0.00	0.00	19.20	81.20	0.00	0.00	32.13	1141.48	0.00	23.94	88.38	15454.27
158+50		50.00	45.57	0.00	0.00	19.20	85.71	0.00	0.00	35.56	1227.19	0.00	23.94	129.27	16681.46
159+00		50.00	39.30	0.00	0.00	24.00	78.58	0.00	0.00	40.00	1305.78	0.00	23.94	175.27	17987.24
159+31	BK	31.00	29.30	0.00	0.00	24.00	39.38	0.00	0.00	27.56	1345.16	0.00	23.94	206.96	19332.40
							1345.16	0.00	20.81	179.96					

DIVISION 1 60TH STREET FRONTAGE ROAD

STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOLUME (CY) (UNADJUSTED) CUT	INCREMENTAL VOLUME (CY) (UNADJUSTED) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	INCREMENTAL VOLUME (CY) (UNADJUSTED) FILL	INCREMENTAL VOLUME (CY) (UNADJUSTED) EBS	CUMULATIVE VOLUME (CY) CUT 1.00	CUMULATIVE VOLUME (CY) SALVAGED/ UNUSABLE PAVEMENT 1.00	CUMULATIVE VOLUME (CY) EXPANDED FILL 1.15	CUMULATIVE VOLUME (CY) EBS 1.15	MASS ORDINATE
113+85 AH	0.00	0.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114+00	14.78	52.40	17.50	0.70	34.50	14.34	9.58	0.19	9.44	14.34	9.58	0.22	10.86	4.76
114+50	50.00	43.70	17.50	1.10	33.80	88.98	32.41	1.67	63.24	103.32	41.99	2.14	83.59	66.10
115+00	50.00	45.80	17.50	1.10	33.80	82.87	32.41	2.04	62.59	186.19	74.39	4.48	155.57	177.90
115+50	50.00	38.60	17.50	2.50	33.80	78.15	32.41	3.33	62.59	264.34	106.80	8.31	227.55	335.44
116+00	50.00	35.30	17.50	3.10	33.80	68.43	32.41	5.19	62.59	332.77	139.21	14.28	299.53	529.00
116+50	50.00	33.20	17.50	3.83	0.00	63.43	32.41	6.42	31.30	396.19	171.62	21.66	335.52	753.57
117+00	50.00	33.50	17.50	3.50	0.00	61.76	32.41	6.79	0.00	457.95	204.02	29.46	335.52	1007.50
117+50	50.00	31.20	17.50	2.10	0.00	59.91	32.41	5.19	0.00	517.86	236.43	35.42	335.52	1288.93
118+00	50.00	30.70	17.50	1.40	0.00	57.31	32.41	3.24	0.00	575.18	268.84	39.15	335.52	1595.27
118+50	50.00	34.40	17.50	0.70	0.00	60.28	32.41	1.94	0.00	635.45	301.25	41.39	335.52	1929.48
119+00	50.00	36.40	17.50	0.40	0.00	65.56	32.41	1.02	0.00	701.01	333.65	42.56	335.52	2296.83
119+50	50.00	15.80	17.50	0.50	0.00	48.33	32.41	0.83	0.00	749.34	366.06	43.52	335.52	2680.11
119+63 BK	12.82	0.00	17.50	0.00	0.00	3.75	8.31	0.12	0.00	753.09	374.37	43.65	335.52	3058.84
						753.09	374.37	37.96	291.76					

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PROJECT NO: 2415-00-71	HWY: S. 60TH STREET	COUNTY: MILWAUKEE	EARTHWORK DATA	SHEET NO: 351	E

FILE NAME : P:\49XX\4960_DP.S60TH.MKE\10 PSE\MQS\POWERPOINT MQ TEMPLATES\090101_EW.PPTM PLOT DATE 7/3/2018 2:00 PM PLOT BY : EMCS, INC

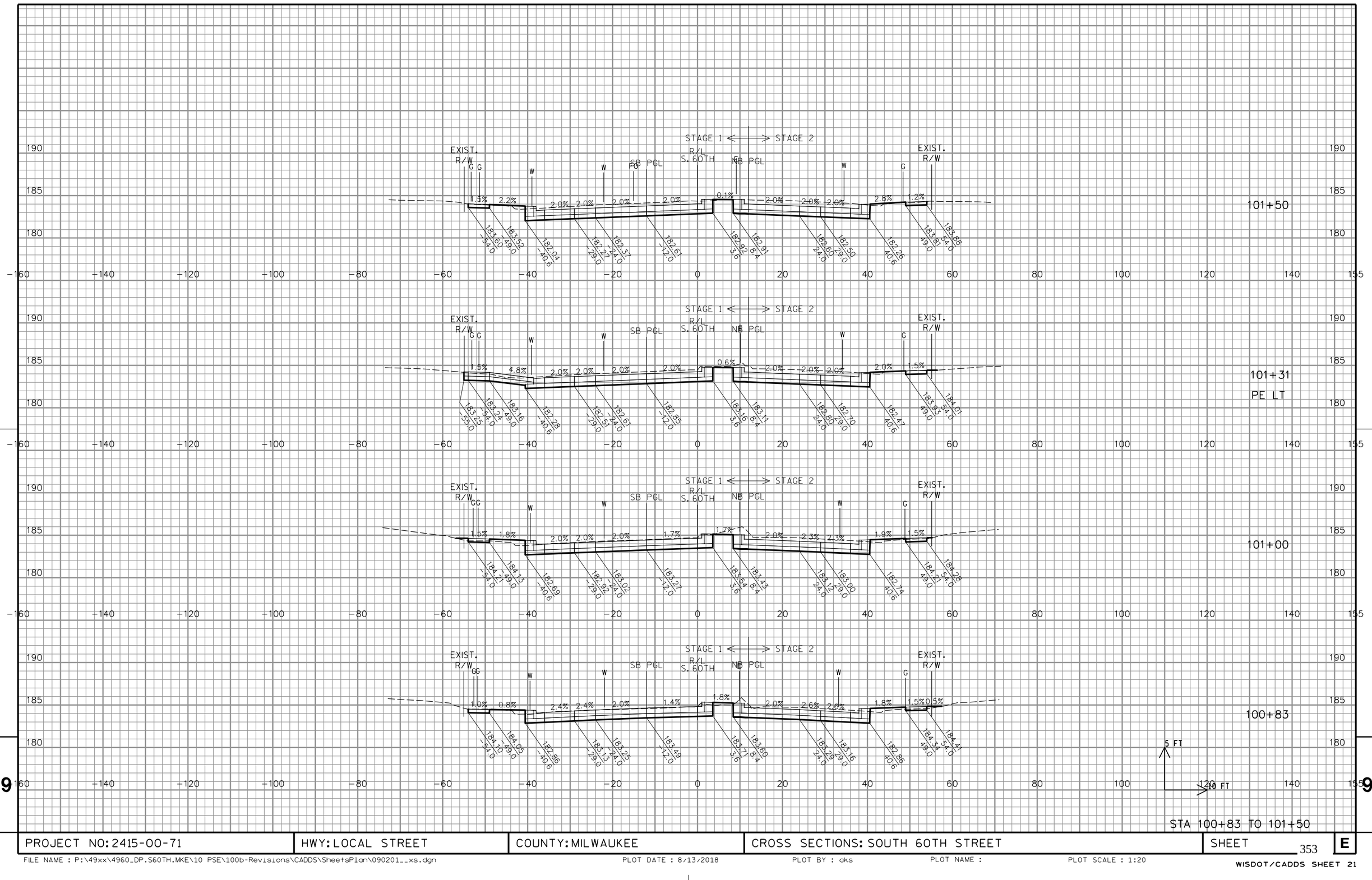
DIVISION 2 60TH STREET FRONTAGE ROAD

STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) EBS	INCREMENTAL VOLUME (CY) (UNADJUSTED) CUT	INCREMENTAL VOLUME (CY) (UNADJUSTED) SALVAGED/ UNUSABLE PAVEMENT MATERIAL	INCREMENTAL VOLUME (CY) (UNADJUSTED) FILL	INCREMENTAL VOLUME (CY) (UNADJUSTED) EBS	CUMULATIVE VOLUME (CY) CUT 1.00	CUMULATIVE VOLUME (CY) SALVAGED/ UNUSABLE PAVEMENT 1.00	CUMULATIVE VOLUME (CY) EXPANDED FILL 1.15	CUMULATIVE VOLUME (CY) EBS 1.15	MASS ORDINATE
107+04 AH	0.00	0.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107+50	46.48	49.50	17.50	0.50	0.00	42.61	30.13	0.43	0.00	42.61	30.13	0.49	0.00	12.48
108+00	50.00	35.60	17.50	3.70	0.00	78.80	32.41	3.89	0.00	121.40	62.53	4.97	0.00	71.35
108+50	50.00	40.00	17.50	3.10	0.00	70.00	32.41	6.30	0.00	191.40	94.94	12.21	0.00	167.81
109+00	50.00	37.80	17.50	4.30	0.00	72.04	32.41	6.85	0.00	263.44	127.35	20.09	0.00	303.90
109+50	50.00	39.70	17.50	4.70	0.00	71.76	32.41	8.33	0.00	335.20	159.76	29.67	0.00	479.35
110+00	50.00	37.10	17.50	7.80	0.00	71.11	32.41	11.57	0.00	406.31	192.16	42.98	0.00	693.50
110+50	50.00	37.30	17.50	5.50	0.00	68.89	32.41	12.31	0.00	475.20	224.57	57.14	0.00	944.12
111+00	50.00	37.50	17.50	4.90	0.00	69.26	32.41	9.63	0.00	544.46	256.98	68.22	0.00	1231.61
111+50	50.00	34.60	17.50	5.10	0.00	66.76	32.41	9.26	0.00	611.22	289.39	78.87	0.00	1553.44
112+00	50.00	39.10	17.50	1.30	39.00	68.24	32.41	5.93	36.11	679.46	321.79	85.68	41.53	1911.10
112+26 BK	26.16	0.00	17.50	0.00	0.00	18.94	16.96	0.63	18.89	698.40	338.75	86.40	63.26	2270.76
113+85 AH	0.00	0.00	17.50	0.00	0.00	0.00	0.00	0.00	0.00	698.40	338.75	86.40	63.26	2630.41
114+00	14.63	58.60	17.50	4.60	40.30	15.88	9.48	1.25	10.92	714.28	348.23	87.84	75.81	2996.45
114+50	50.00	43.00	17.50	1.30	31.80	94.07	32.41	5.46	66.76	808.35	380.64	94.12	152.58	3424.17
115+00	50.00	38.50	17.50	3.30	31.80	75.46	32.41	4.26	58.89	883.81	413.05	99.02	220.31	3894.93
115+50	50.00	60.80	17.50	0.30	45.20	91.94	32.41	3.33	71.30	975.76	445.45	102.85	302.30	4425.24
116+00	50.00	9.10	17.50	2.20	5.00	64.72	32.41	2.31	46.48	1040.48	477.86	105.51	355.75	4987.86
116+02 BK	2.16	0.00	17.50	0.00	0.00	0.36	1.40	0.09	0.20	1040.84	479.26	105.61	355.98	5549.44
						1040.84	479.26	91.84	309.55					

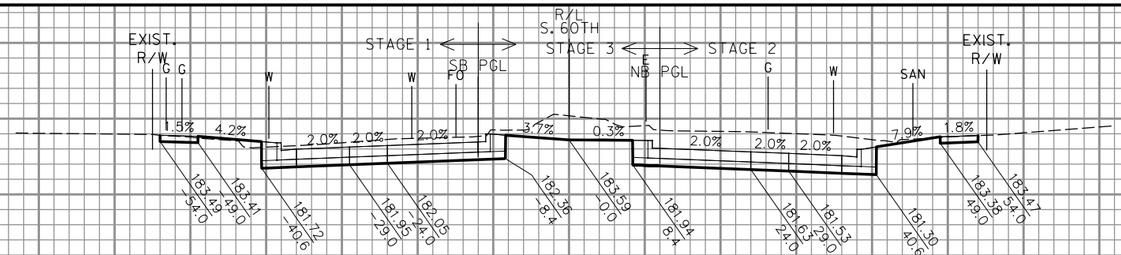
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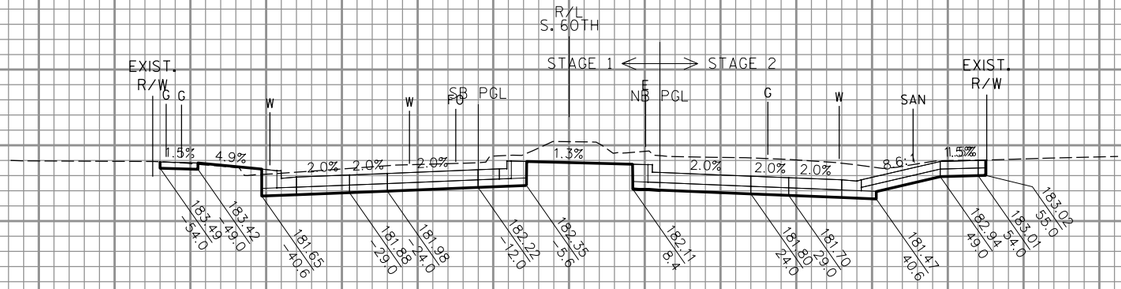
PROJECT NO: 2415-00-71	HWY: S. 60TH STREET	COUNTY: MILWAUKEE	EARTHWORK DATA	SHEET NO: 352	E



PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 353	E

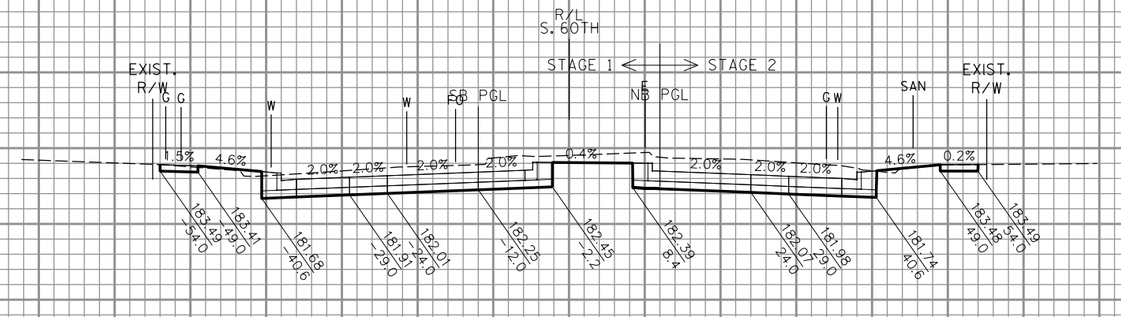


102+50

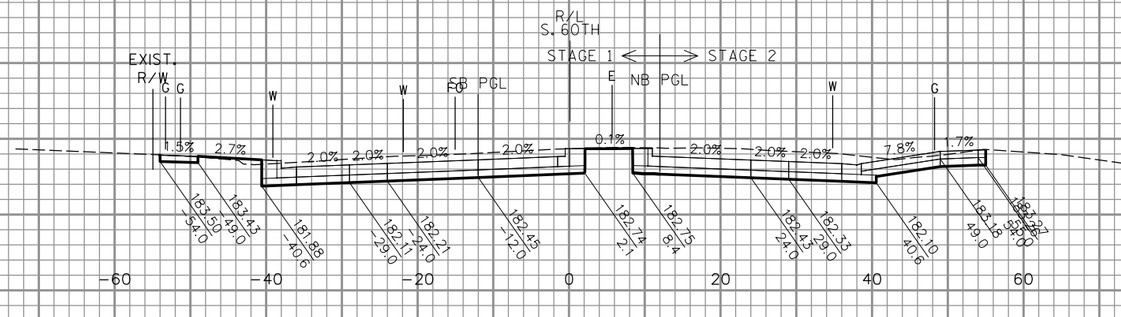


102+27

PE RT



102+00



101+66

PE RT

5 FT

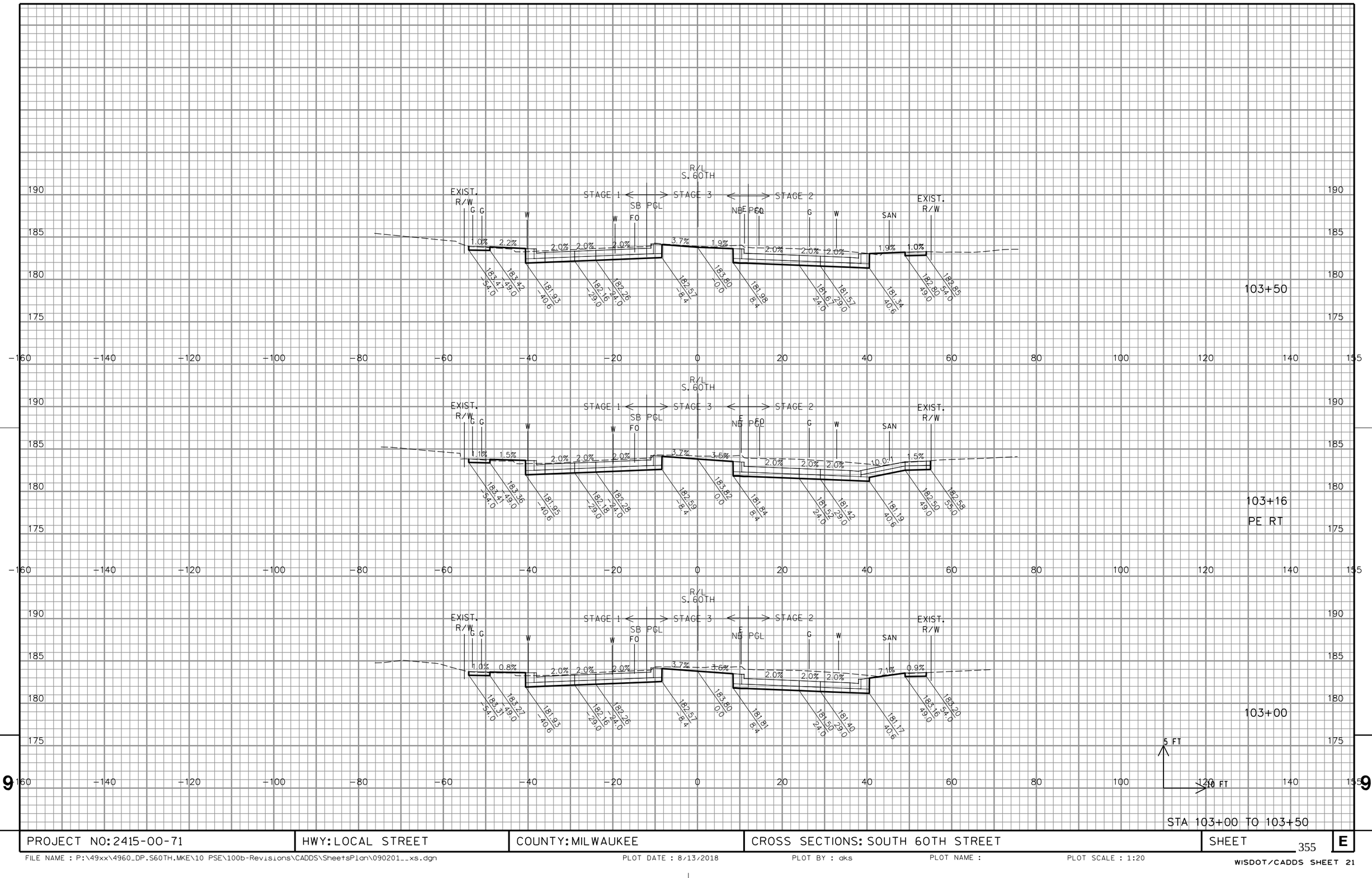
10 FT

STA 101+66 TO 102+50

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 354	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



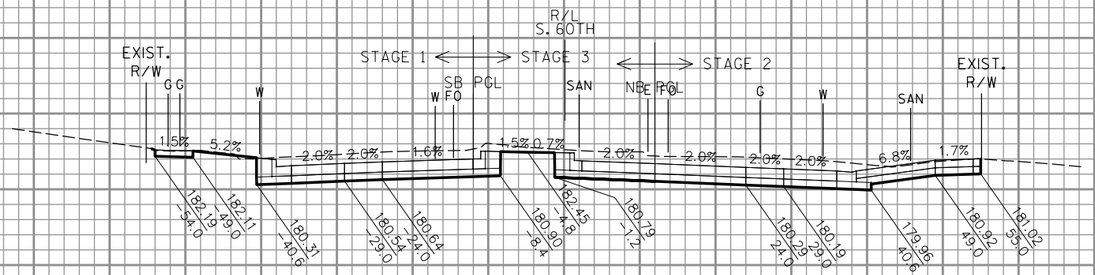
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 355	E

STA 104+00 TO 104+50

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 356	E

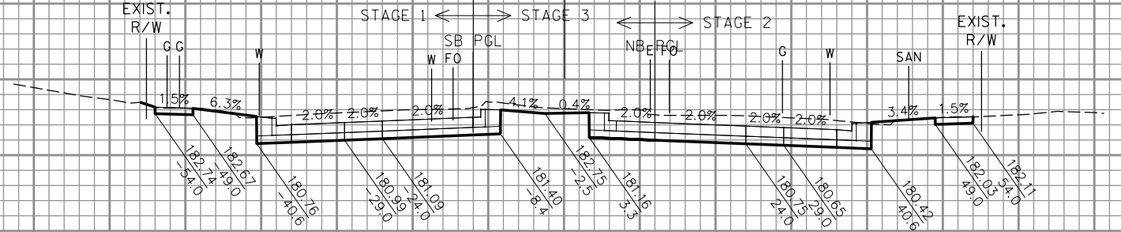
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WISDOT/CADDS SHEET 21

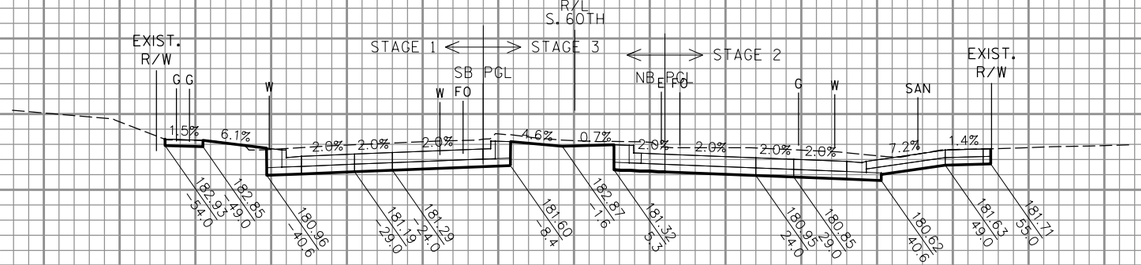


105+36

PE RT



105+00



104+84

PE RT

5 FT

10 FT

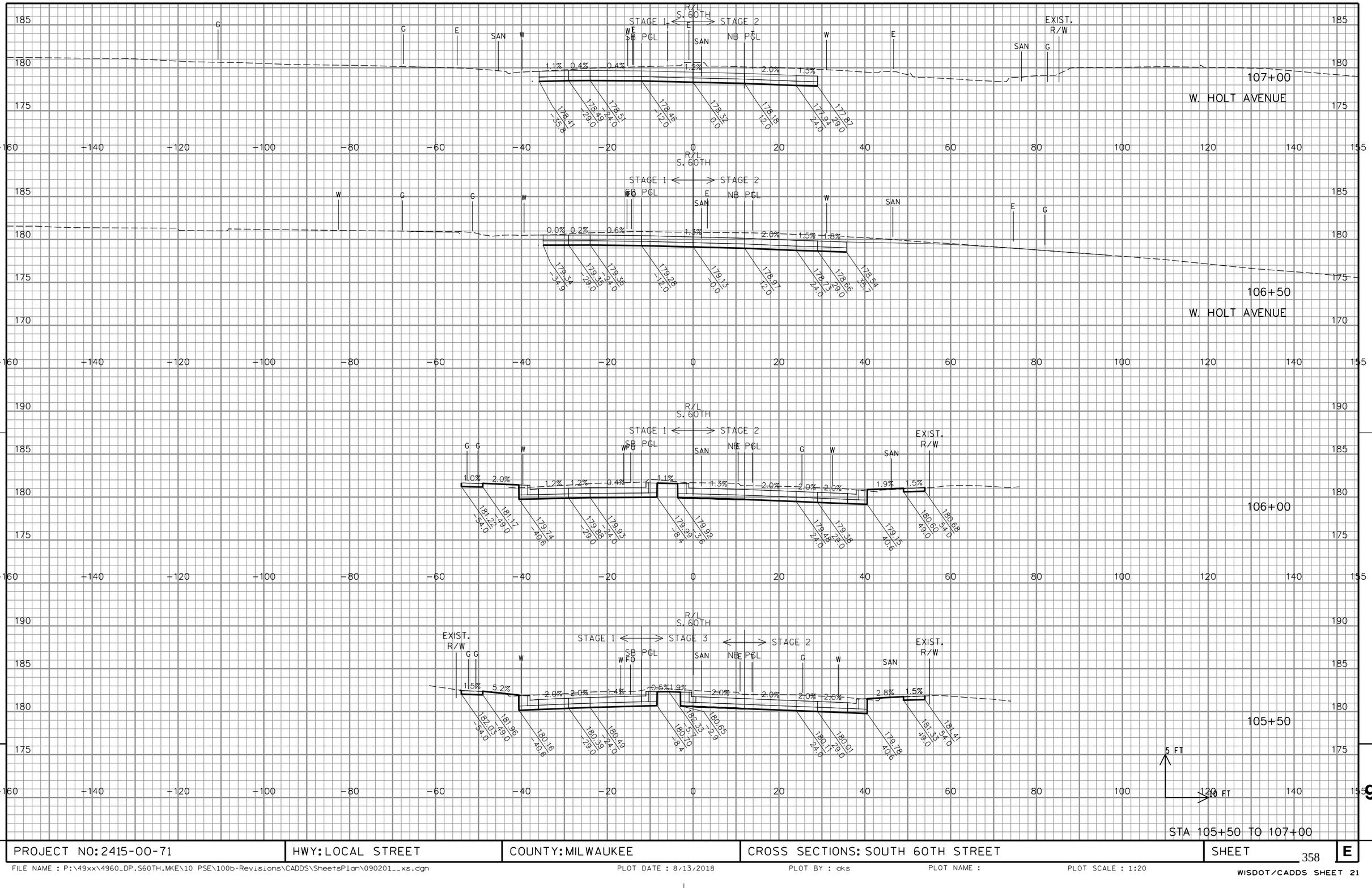
STA 104+84 TO 105+36

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 357	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn

PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

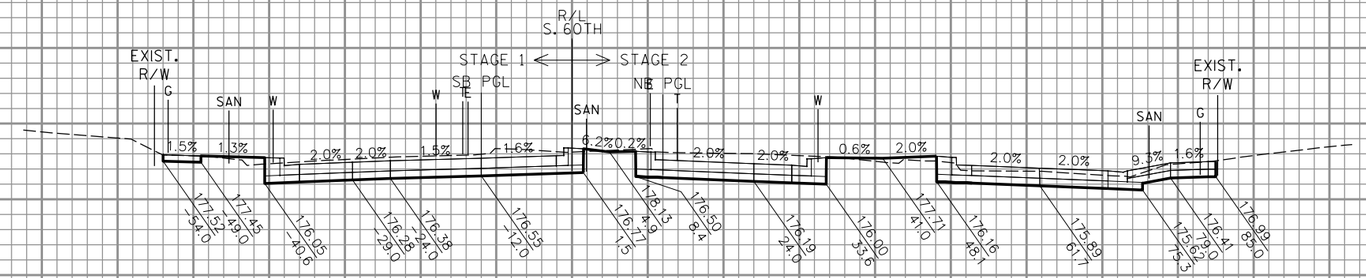


STA 105+50 TO 107+00

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 358	E

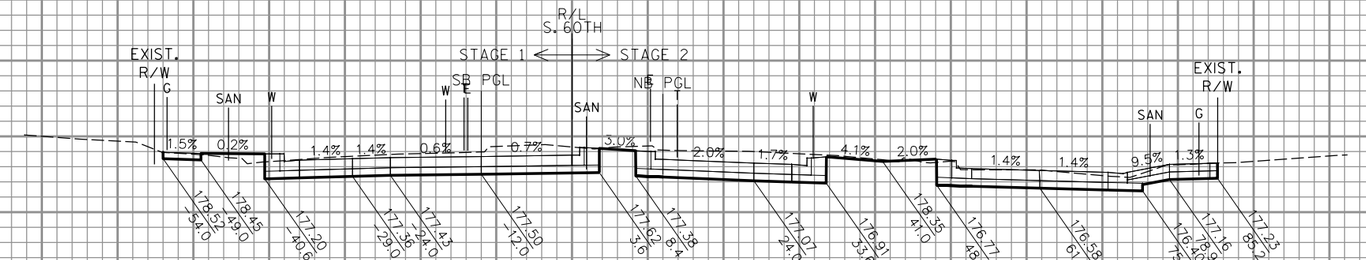
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WISDOT/CADDS SHEET 21

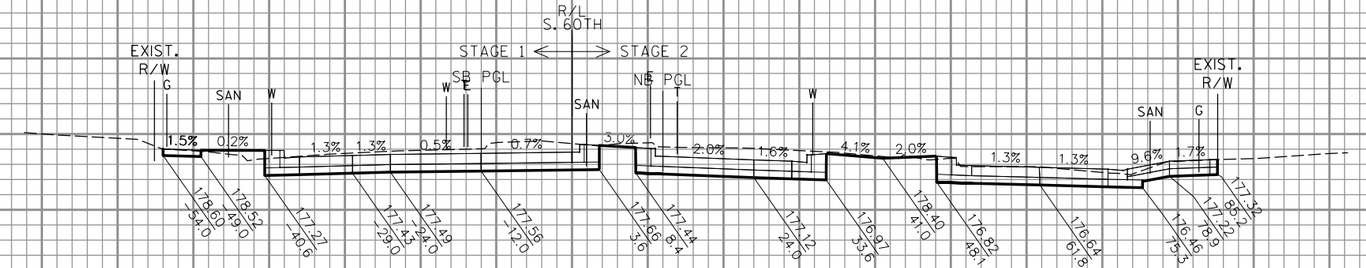


107+93

PE RT

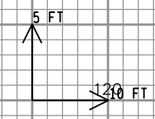


107+50



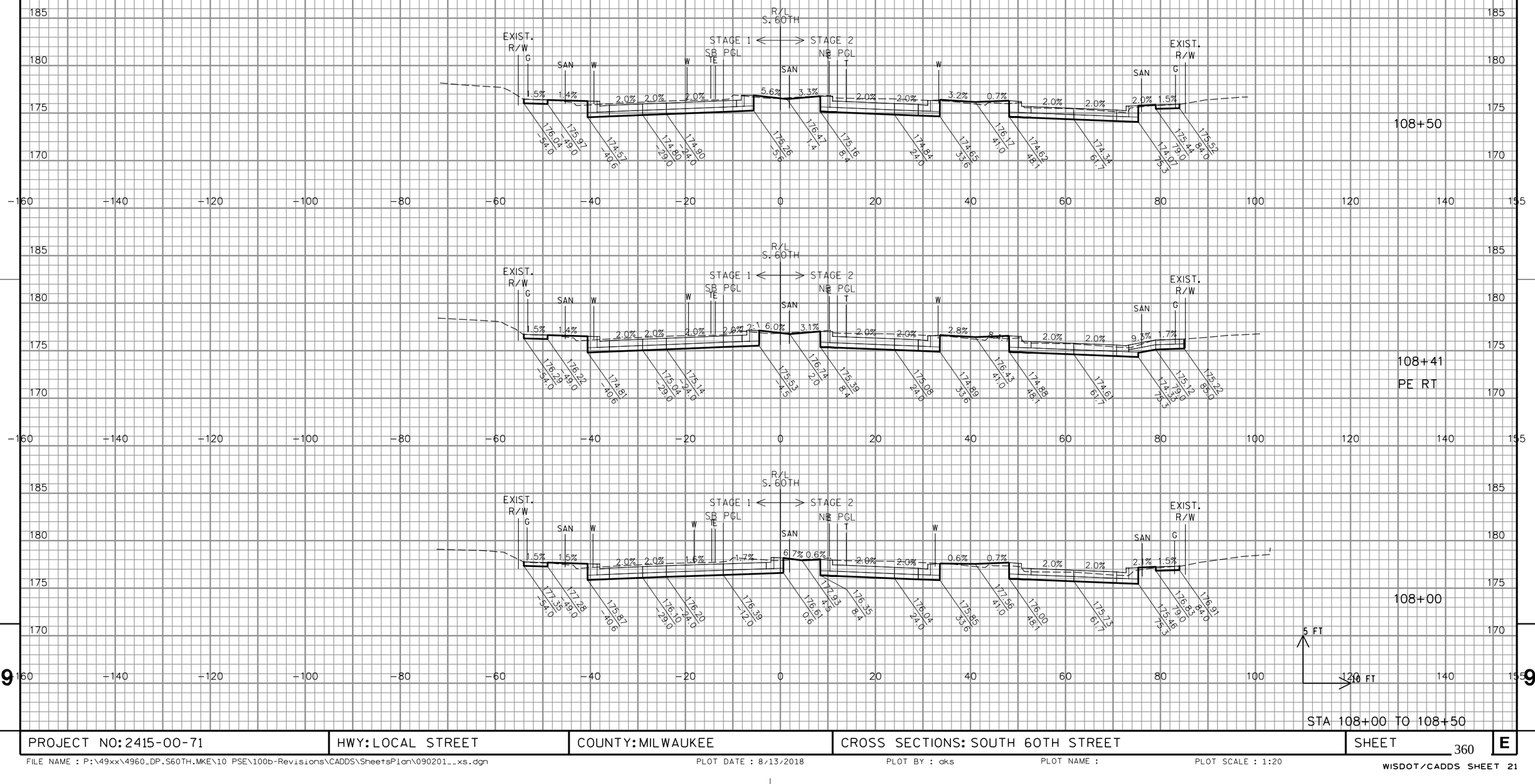
107+47

PE RT



STA 107+47 TO 107+93

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 359	E

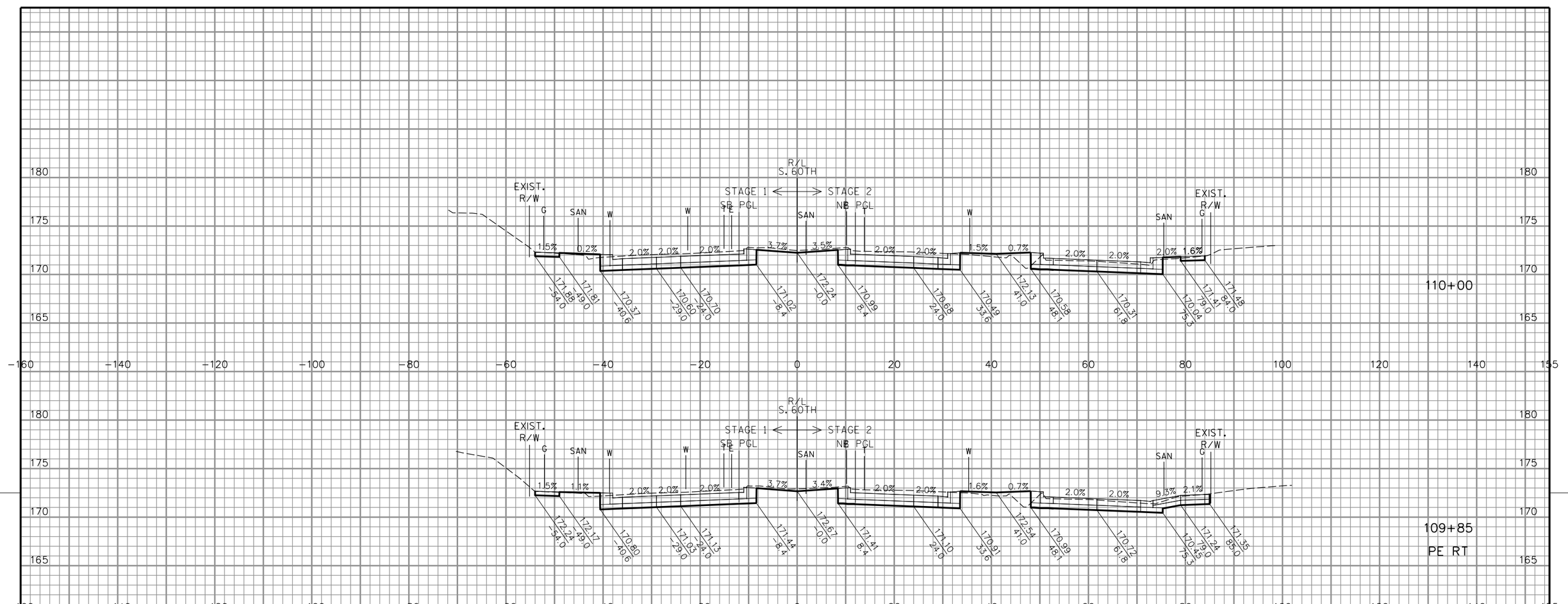


STA 108+00 TO 108+50

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 360	E

STA 108+89 TO 109+42

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 361	E



PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 362	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 363	E

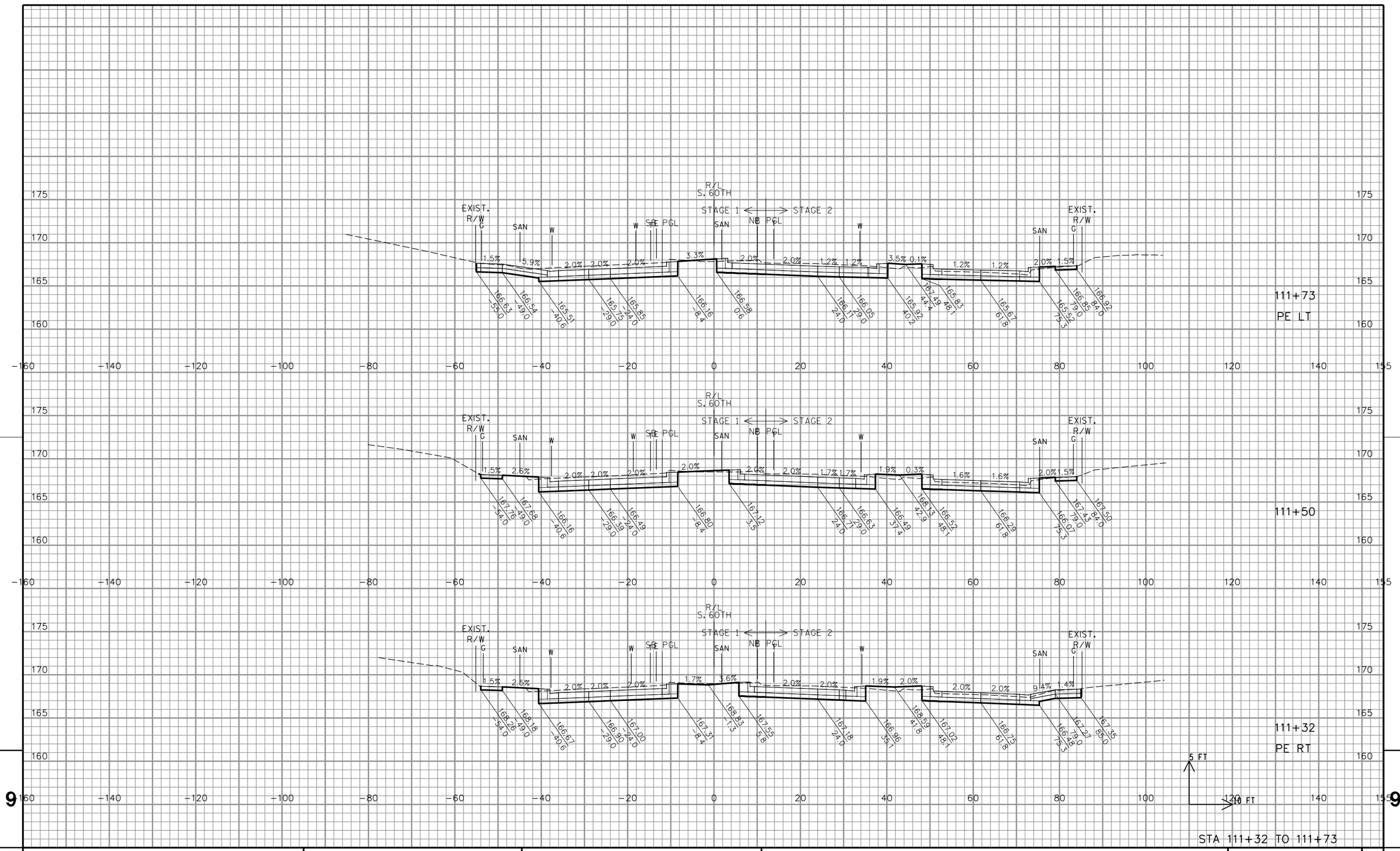
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WISDOT/CADDS SHEET 21

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 364	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



STA 111+32 TO 111+73

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 365	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

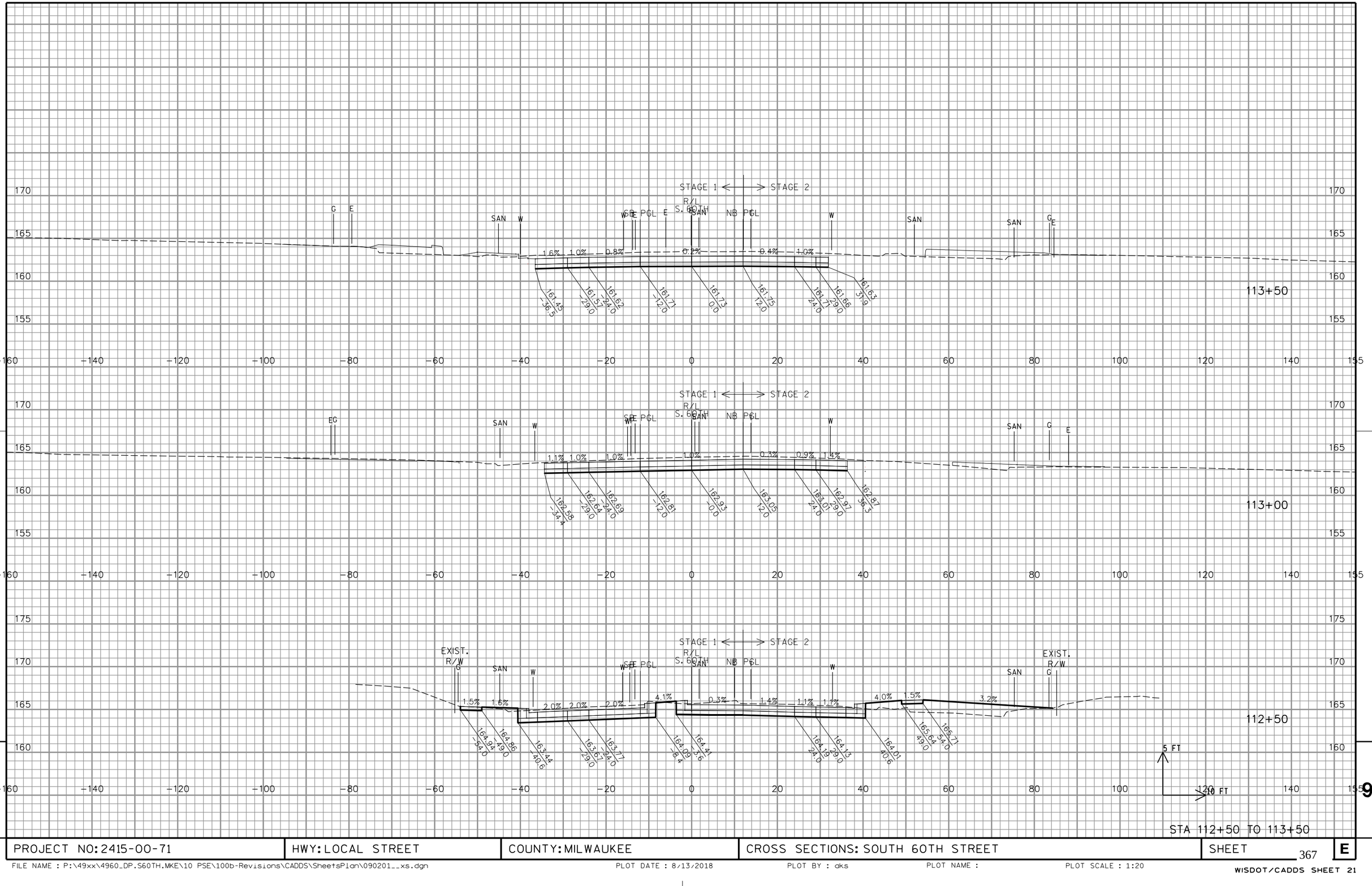
WISDOT/CADDS SHEET 21

STA 111+87 TO 112+00

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 366	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

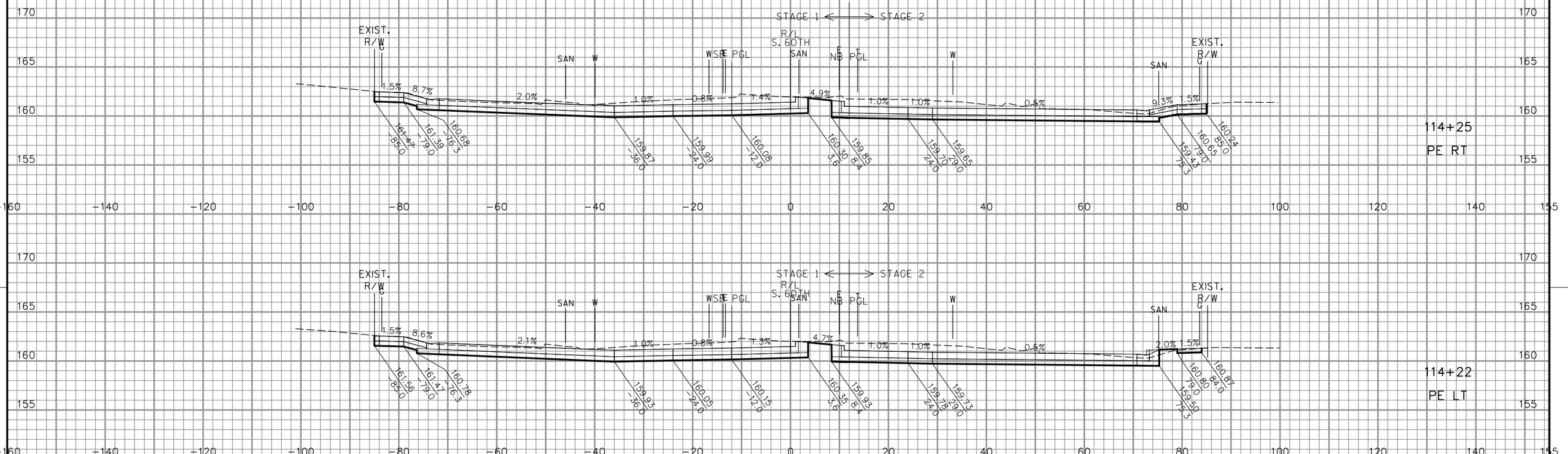
WISDOT/CADDS SHEET 21

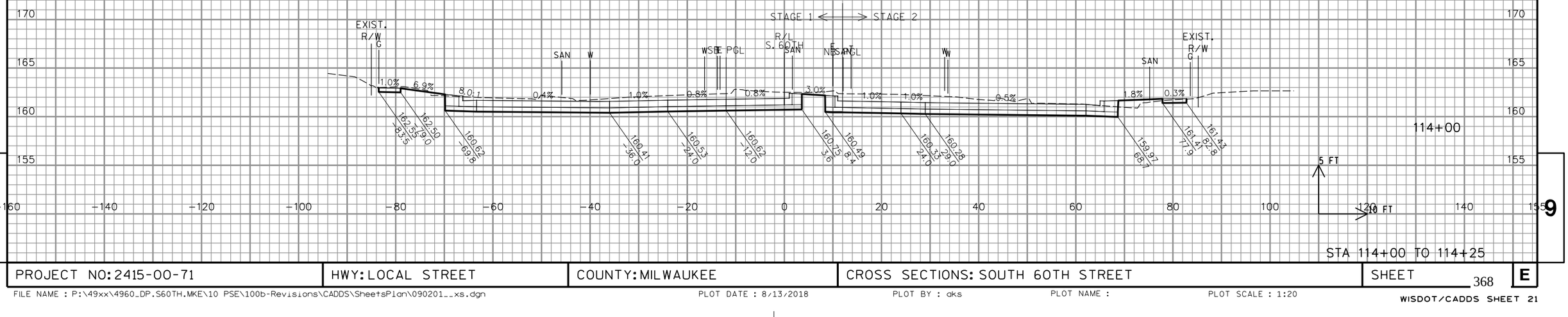


PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 367	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

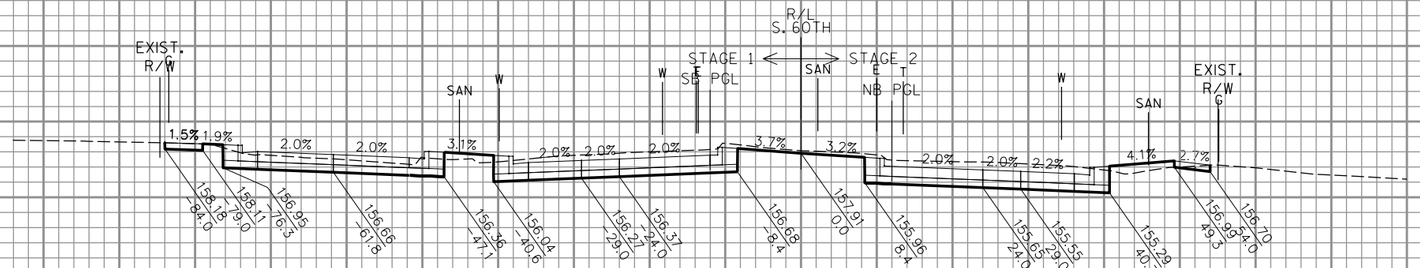
WISDOT/CADDS SHEET 21

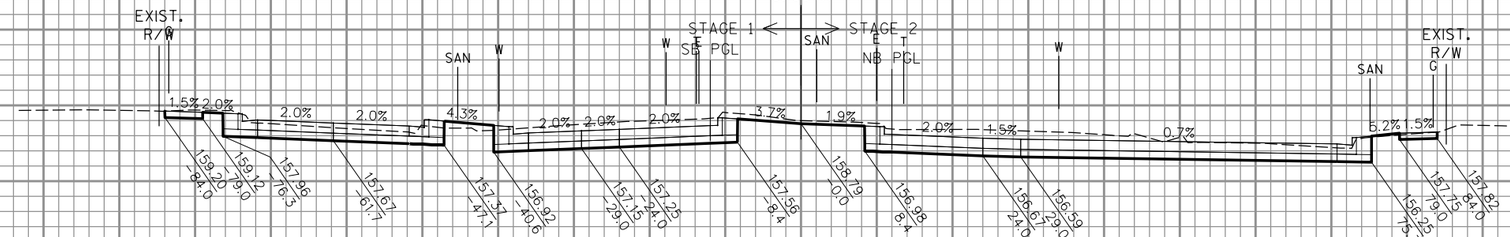


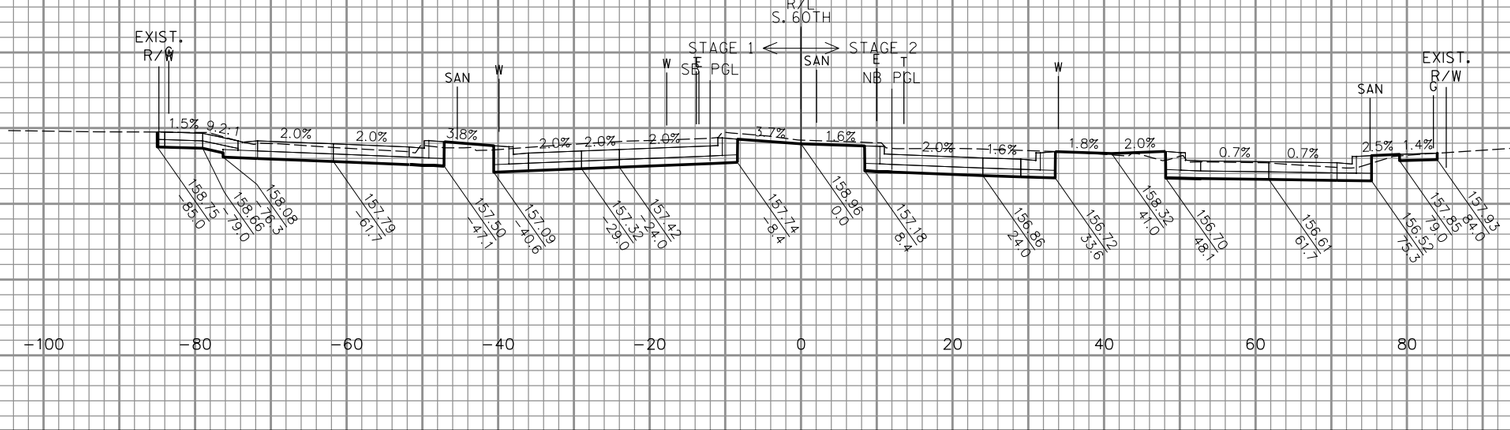


PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 368	E

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 369 E

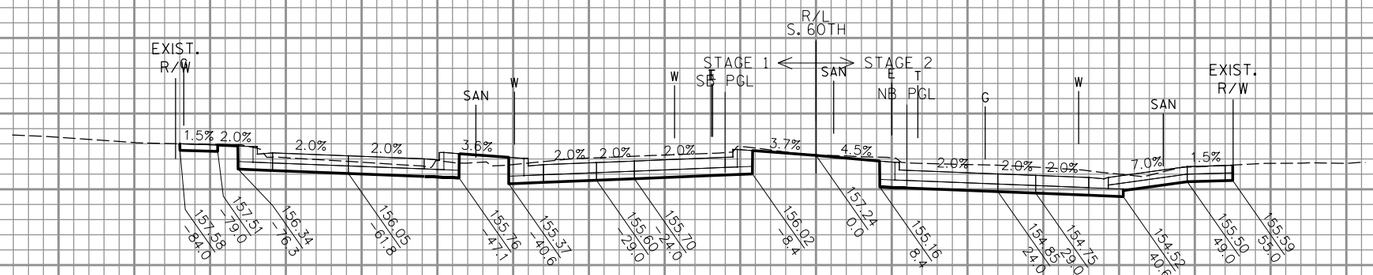






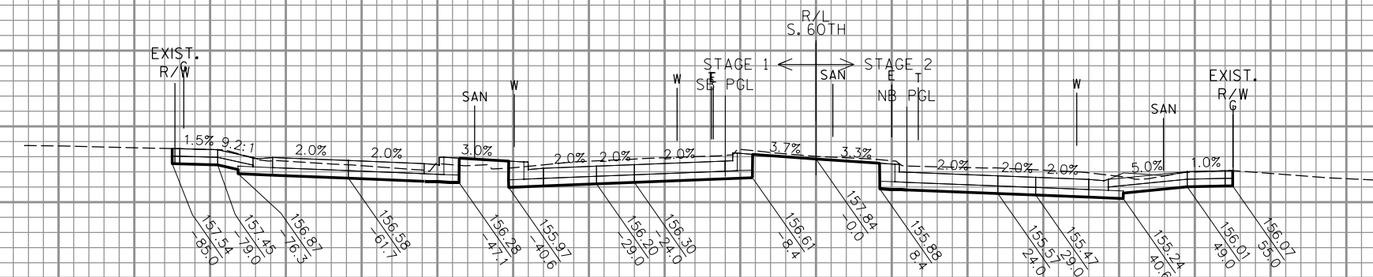
STA 115+41 TO 116+00

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 370	E



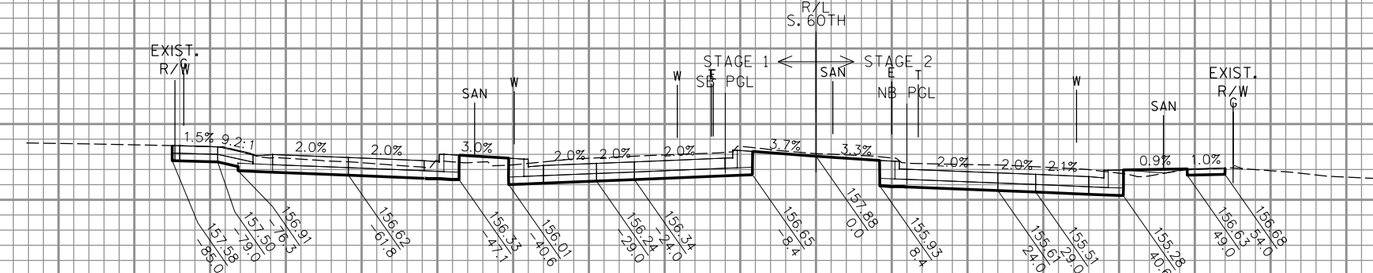
116+42

PE RT



116+04

PE RT



116+02

PE RT

5 FT

10 FT

STA 116+02 TO 116+42

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

STA 116+50 TO 116+84

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 372	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn | PLOT DATE : 8/13/2018 | PLOT BY : aks | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

STA 117+00 TO 117+33

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 373	E

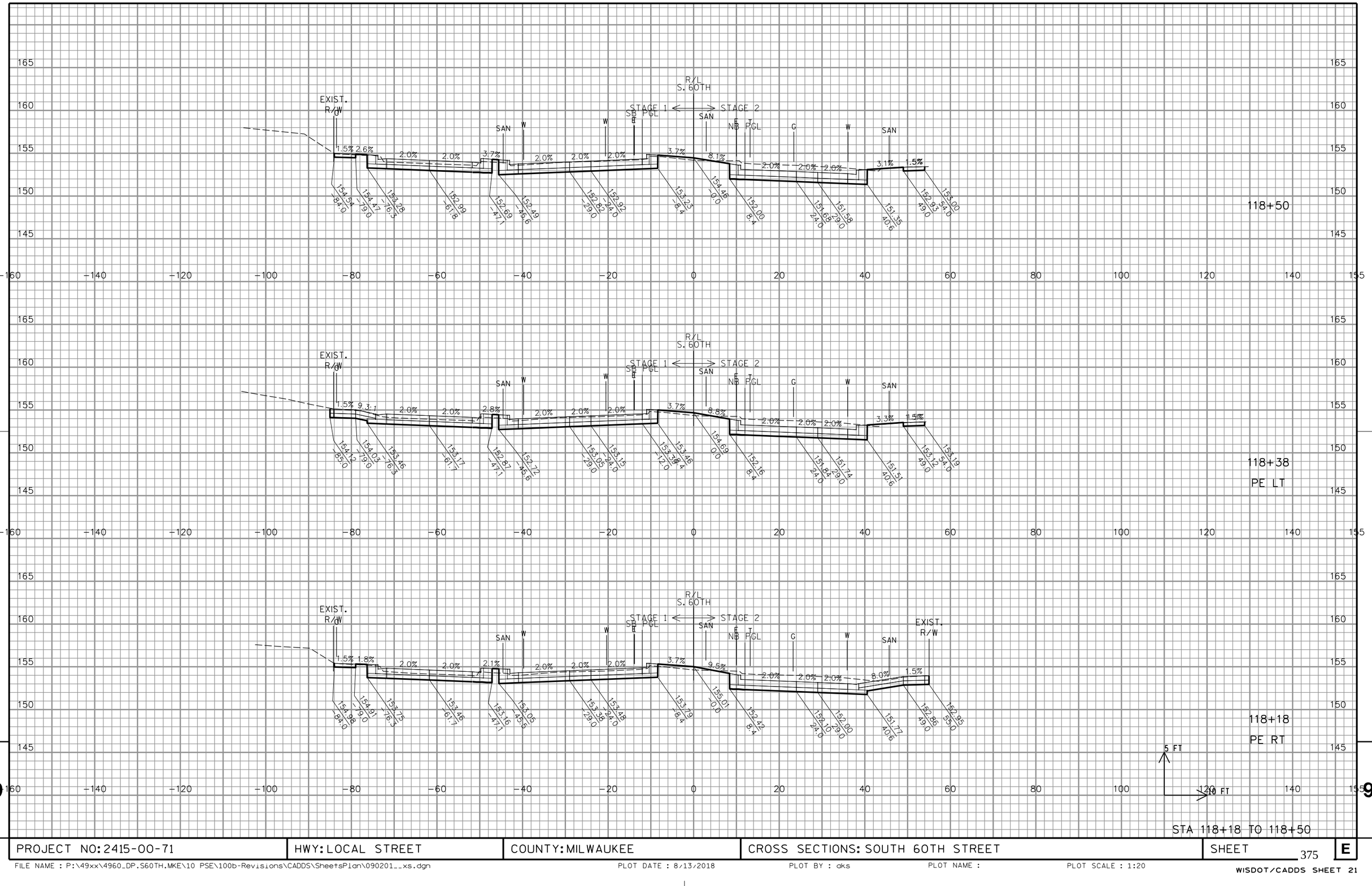
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WISDOT/CADDS SHEET 21

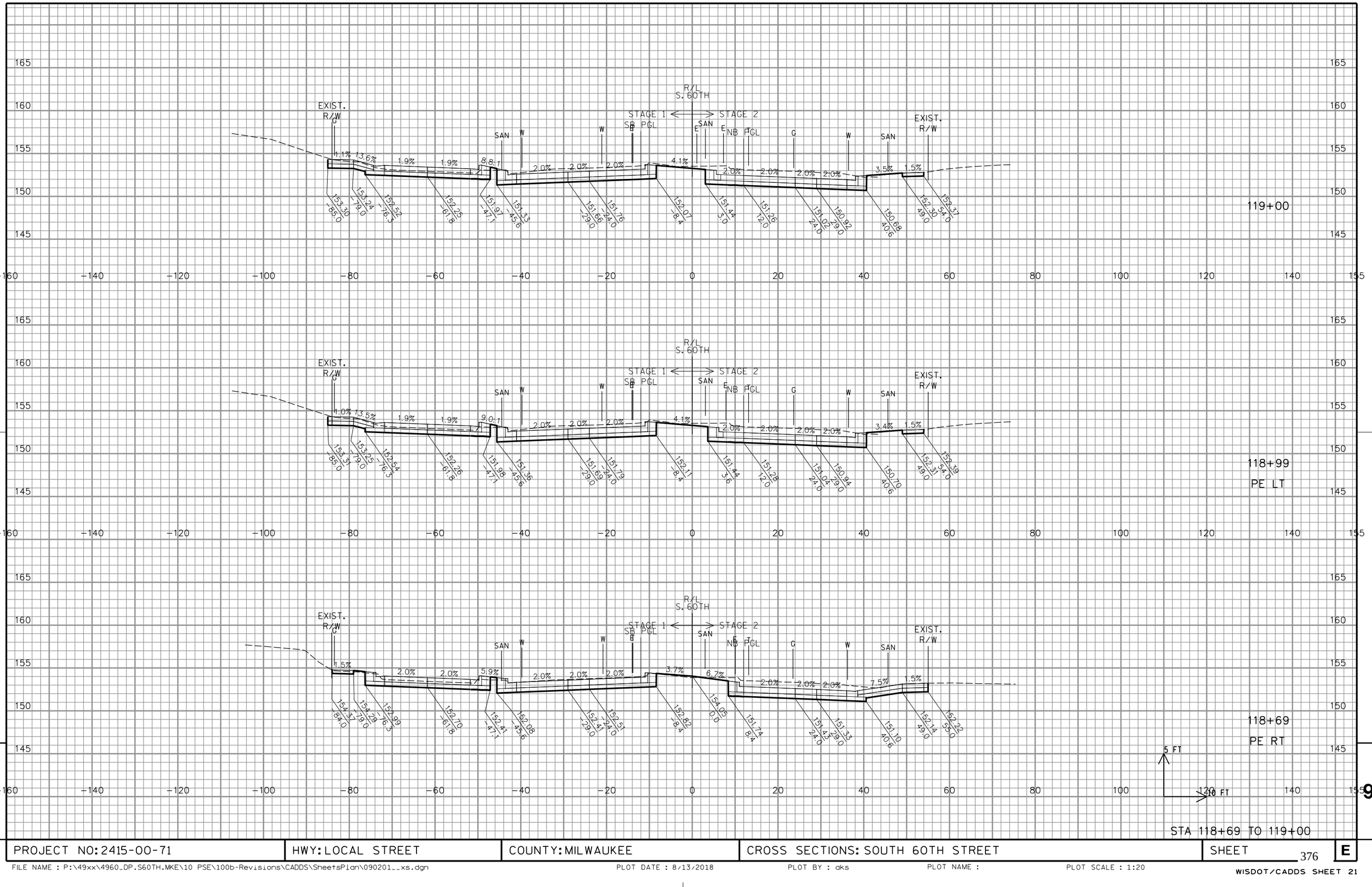
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FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



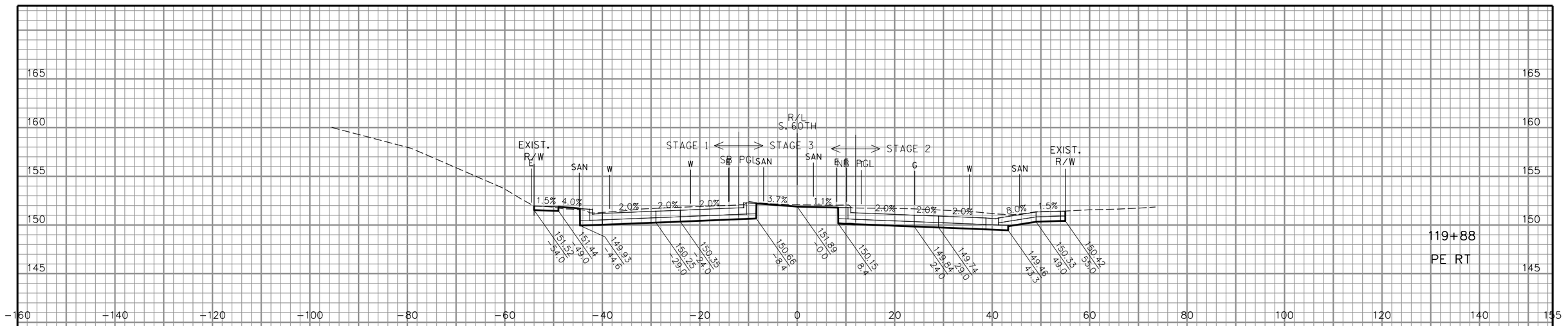
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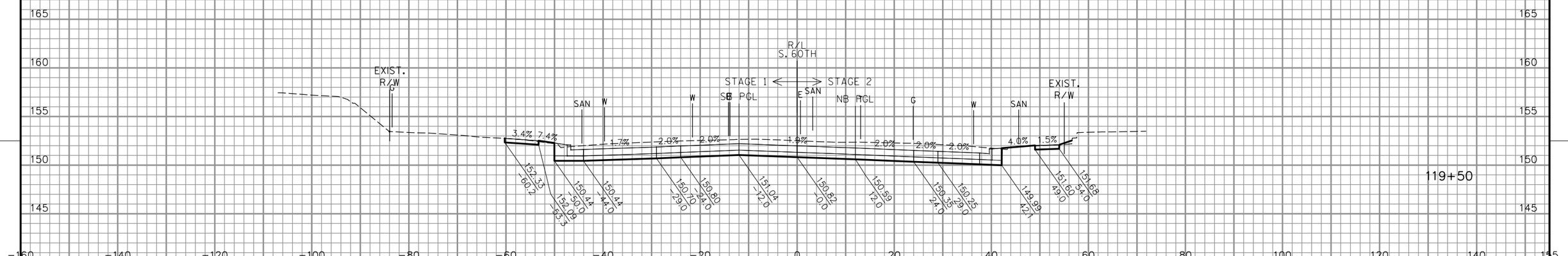


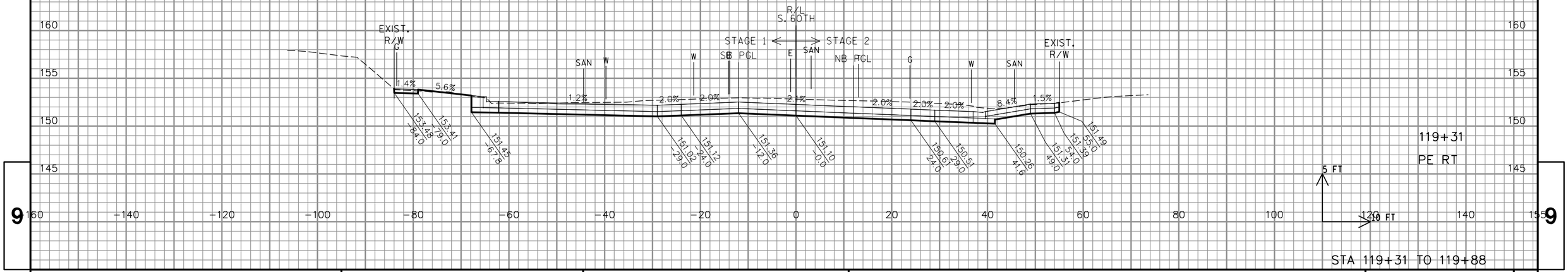
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 376	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

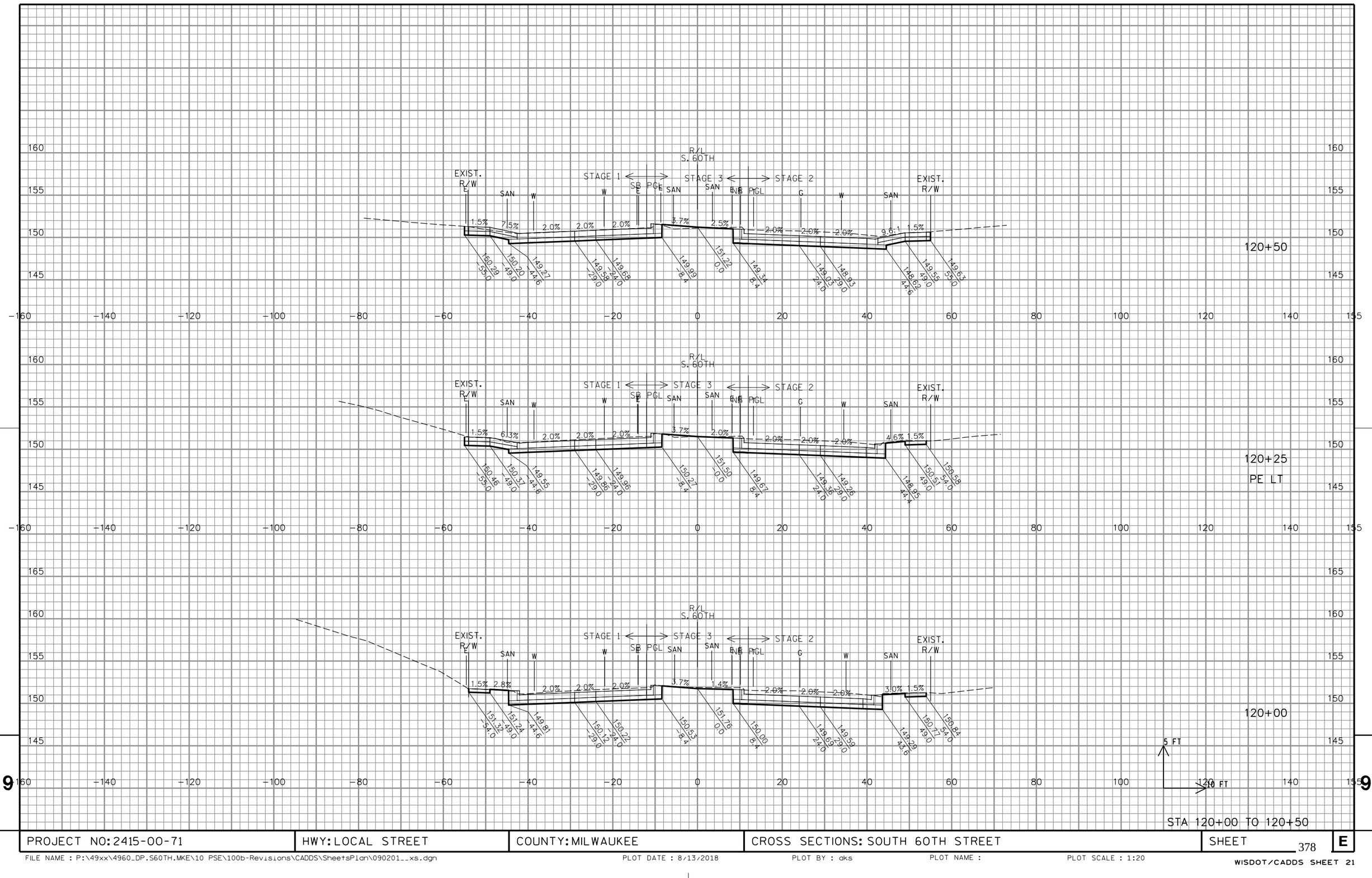
WISDOT/CADDS SHEET 21







PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 377	E



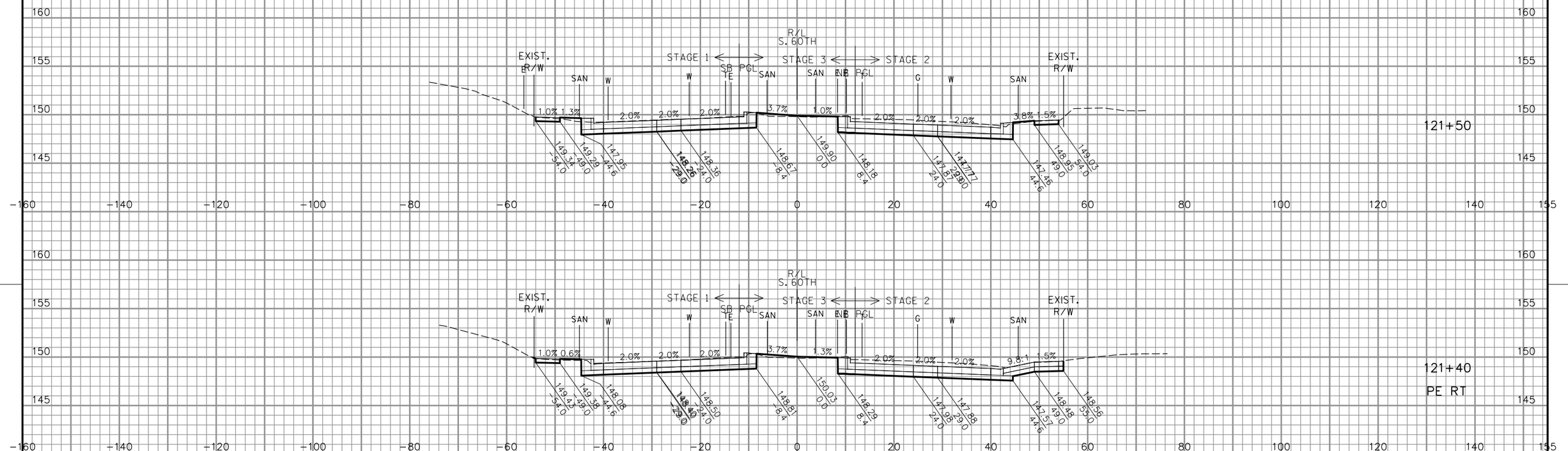
STA 120+00 TO 120+50

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 378	E

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 379	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

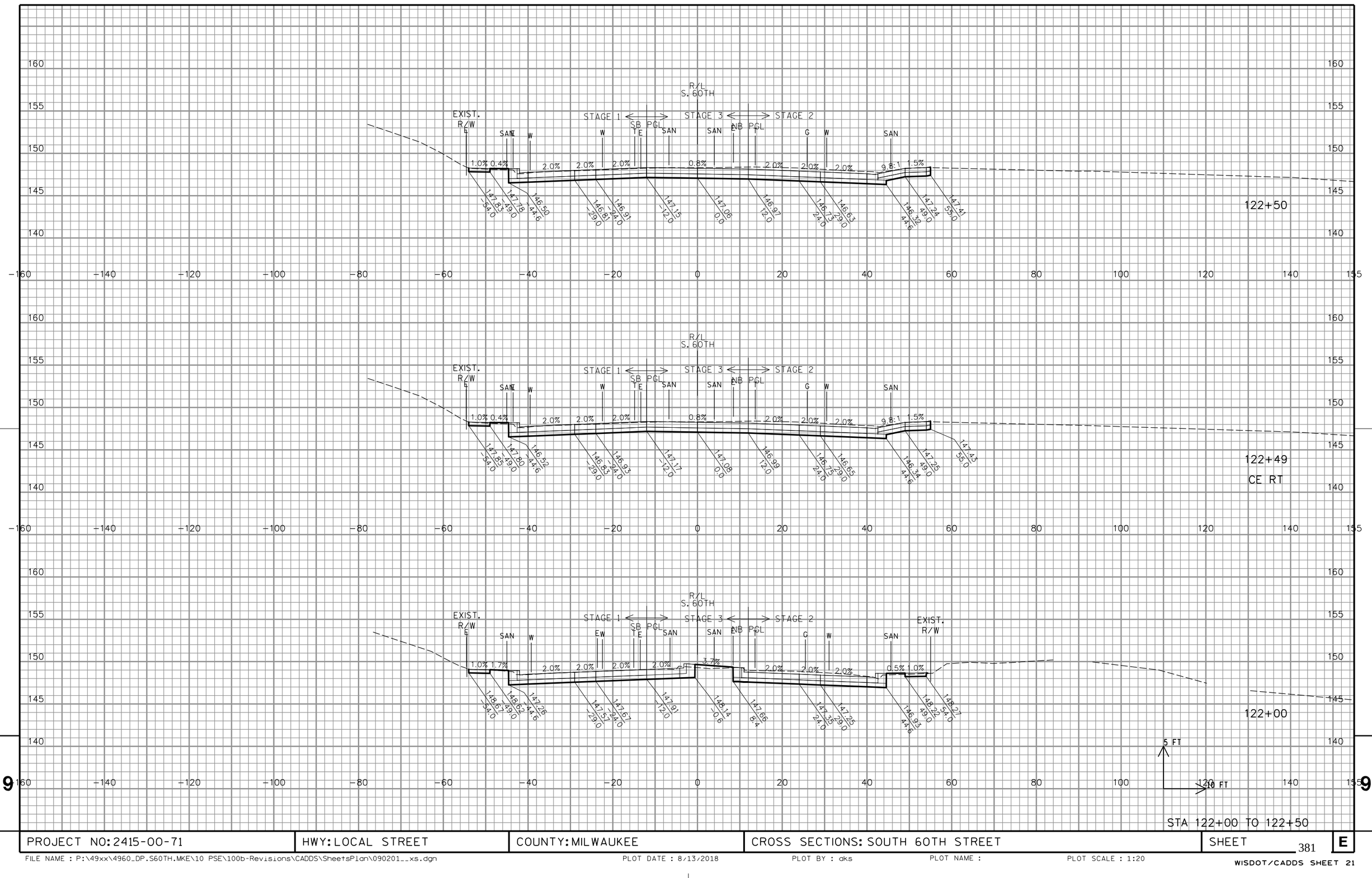
WISDOT/CADDS SHEET 21



PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 380	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

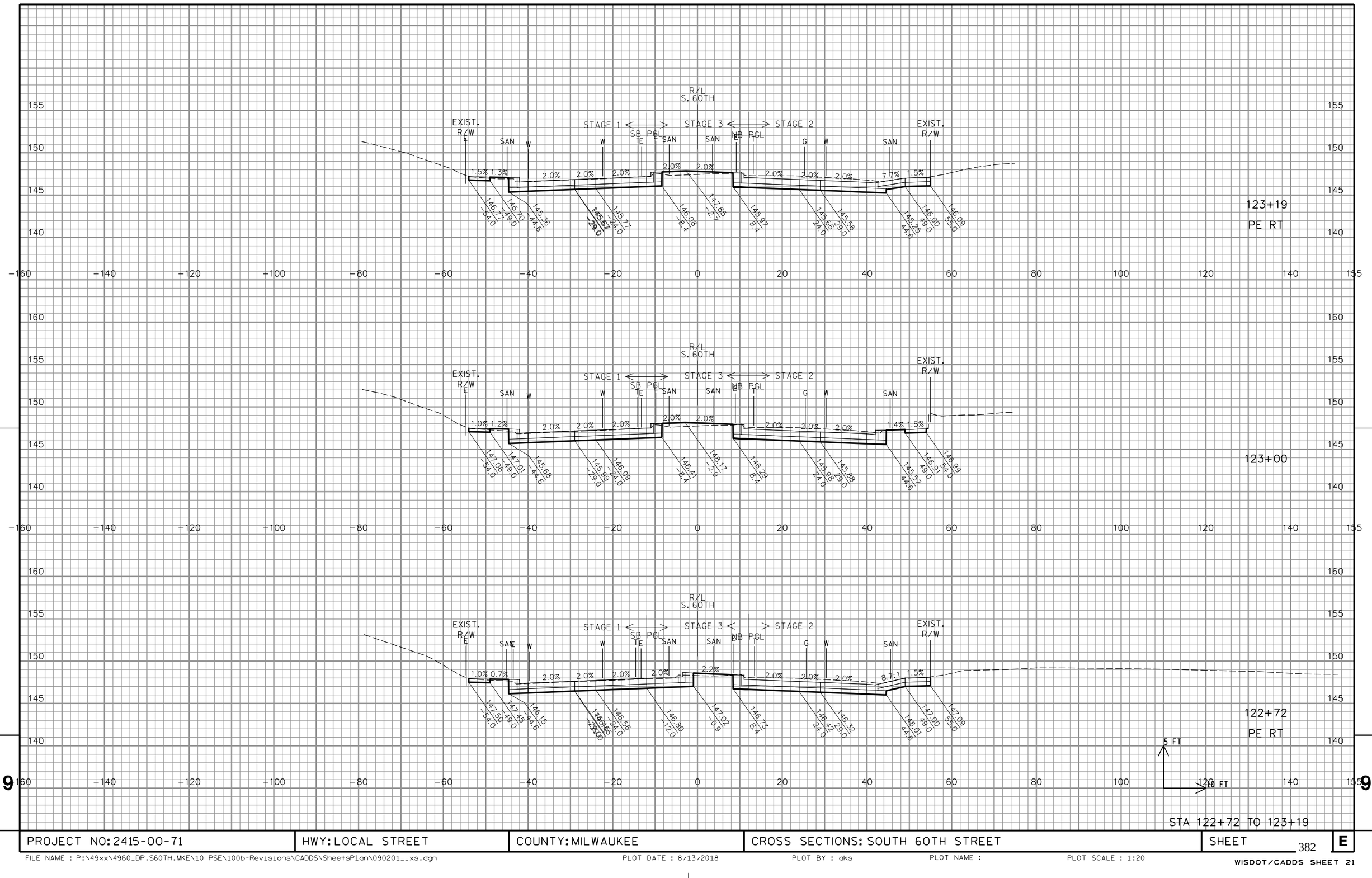


STA 122+00 TO 122+50

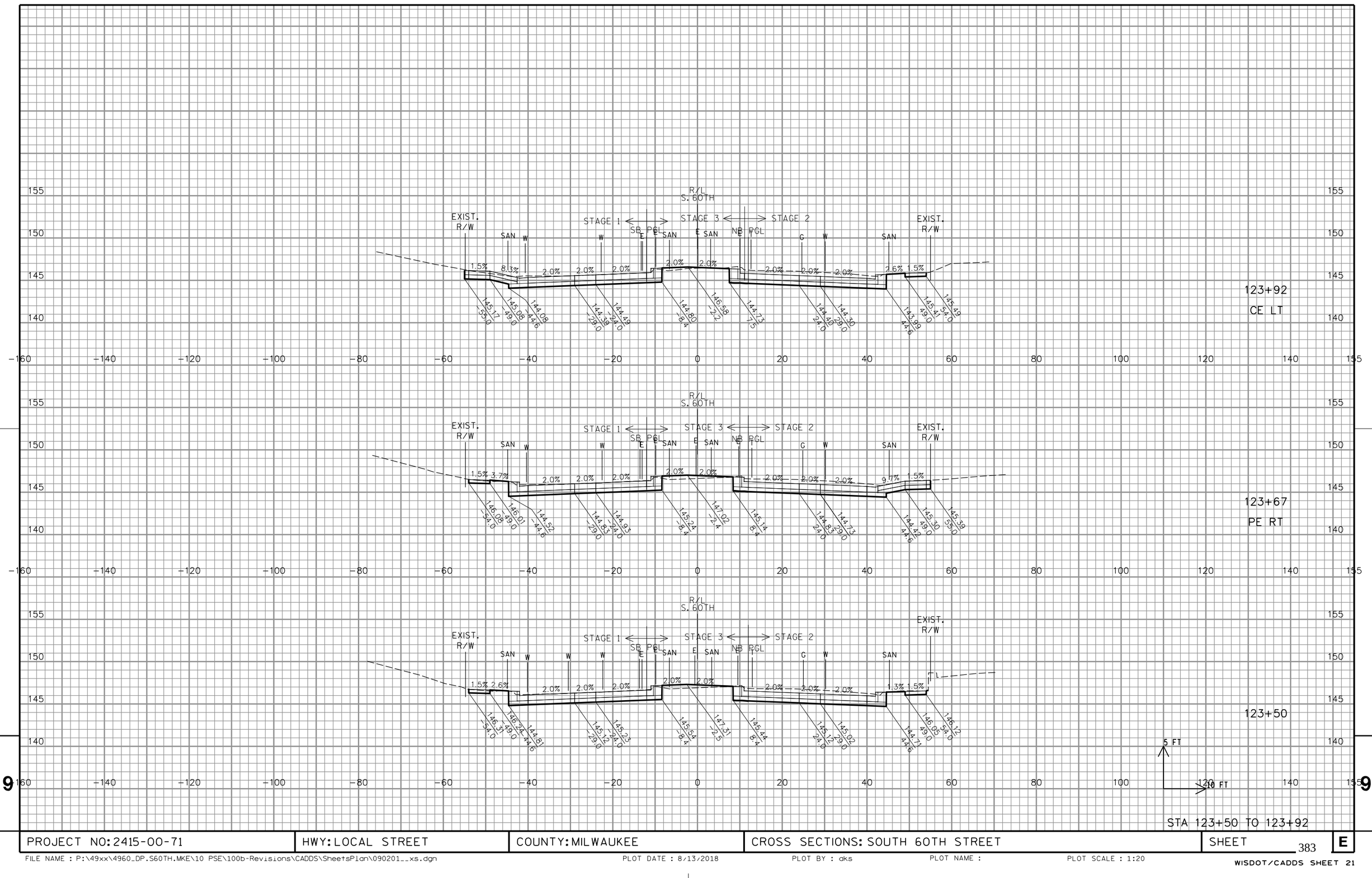
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 382	E



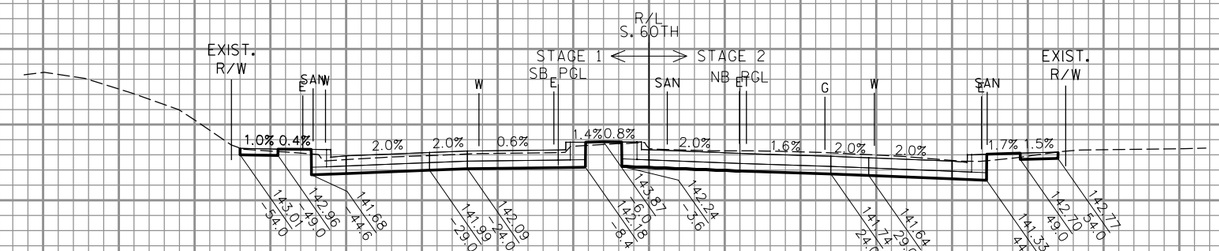
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FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn | PLOT DATE : 8/13/2018 | PLOT BY : dks | PLOT NAME : | PLOT SCALE : 1:20

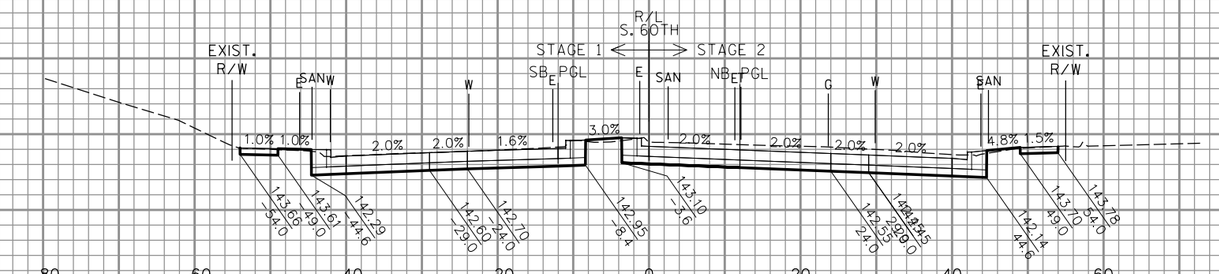
WISDOT/CADDS SHEET 21

STA 124+00 TO 124+50

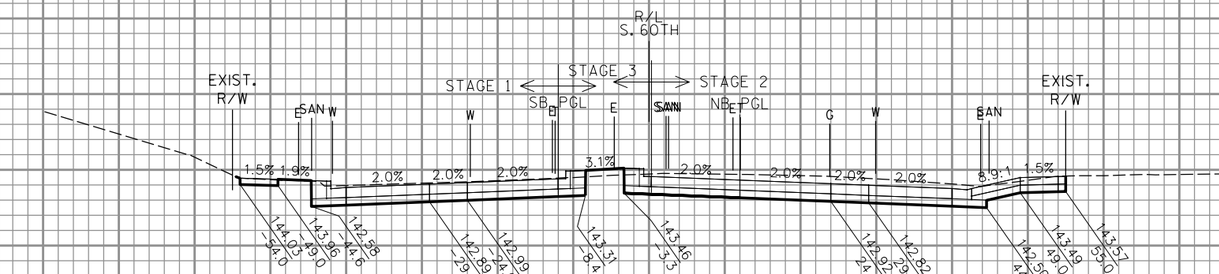
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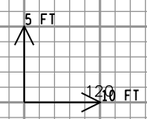
125+50



125+00



124+79
CE RT

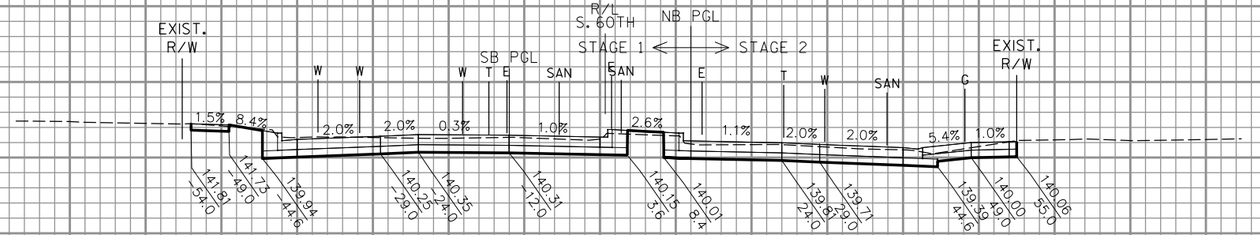


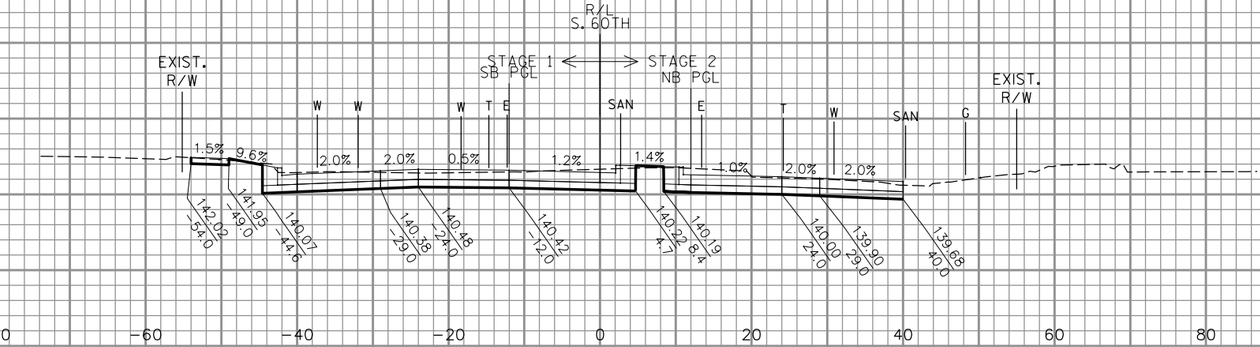
STA 124+79 TO 125+50

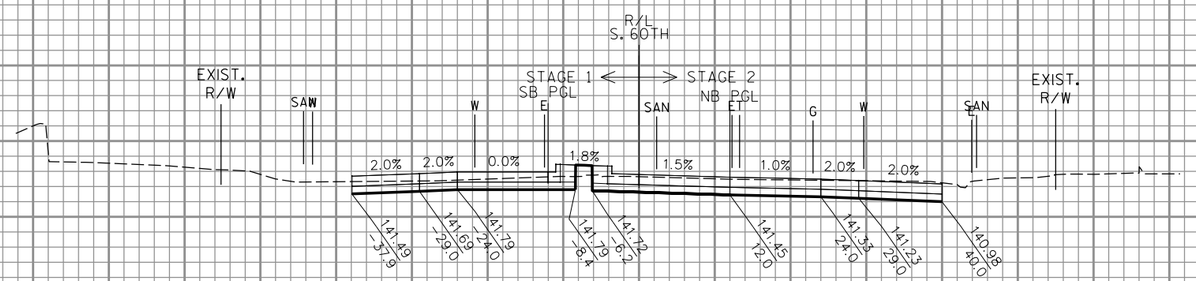
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 385	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





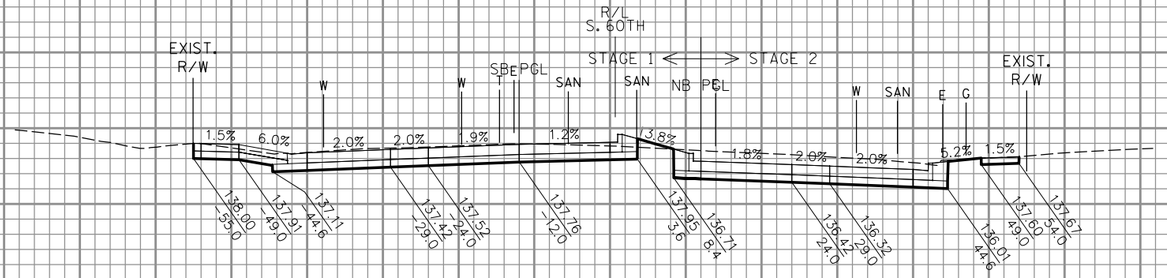


STA 125+78 TO 127+25

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 386	E

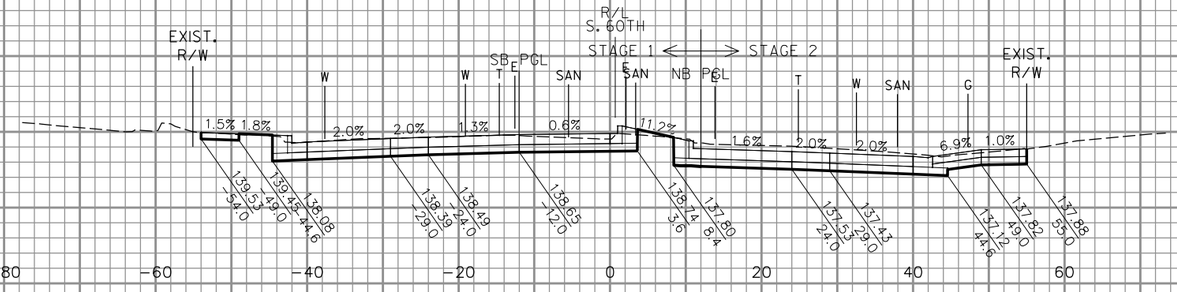
FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



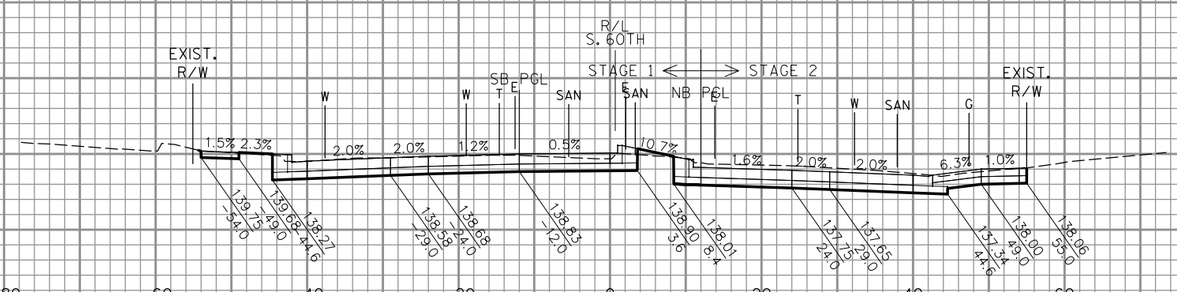
128+37

CE LT

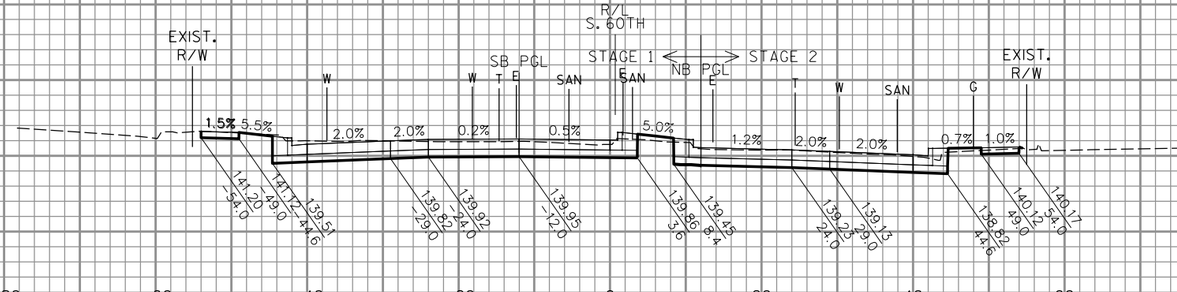


128+06

CE RT



128+00



127+50

5 FT

40 FT

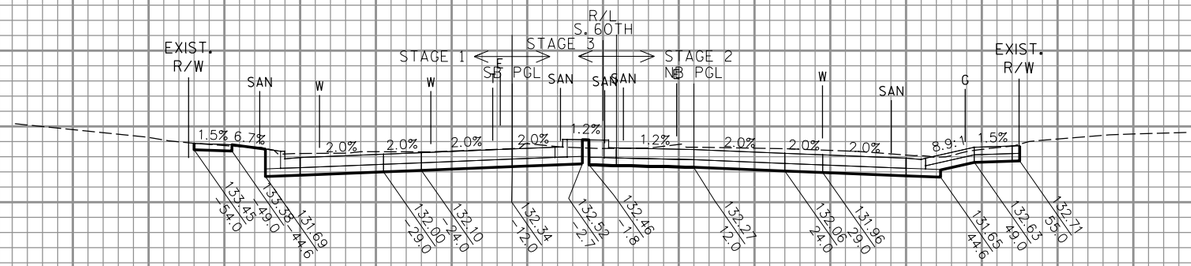
STA 127+50 TO 128+37

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 387	E

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 388	E

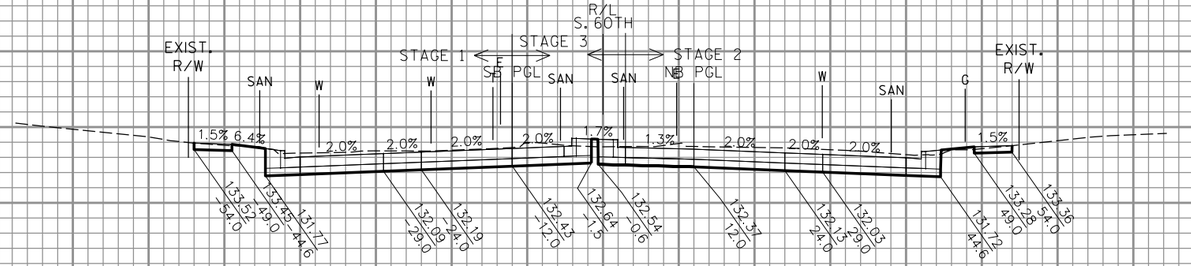
FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn
PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

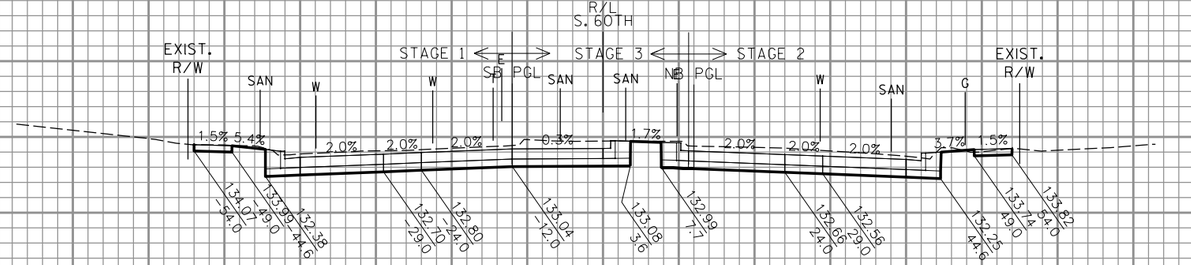


131+07

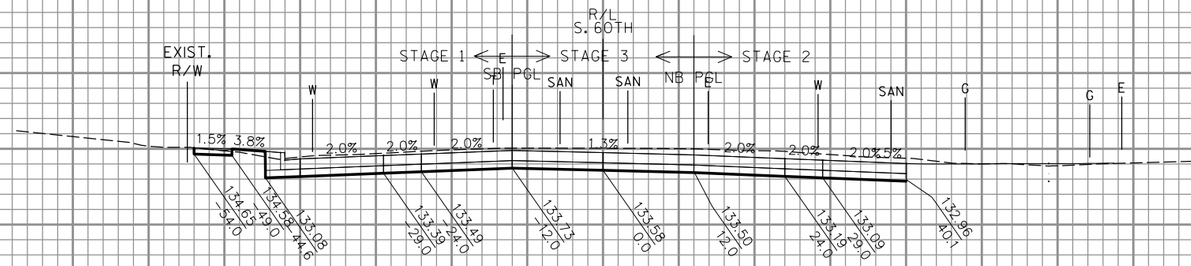
PE RT



131+00



130+50



130+00

5 FT

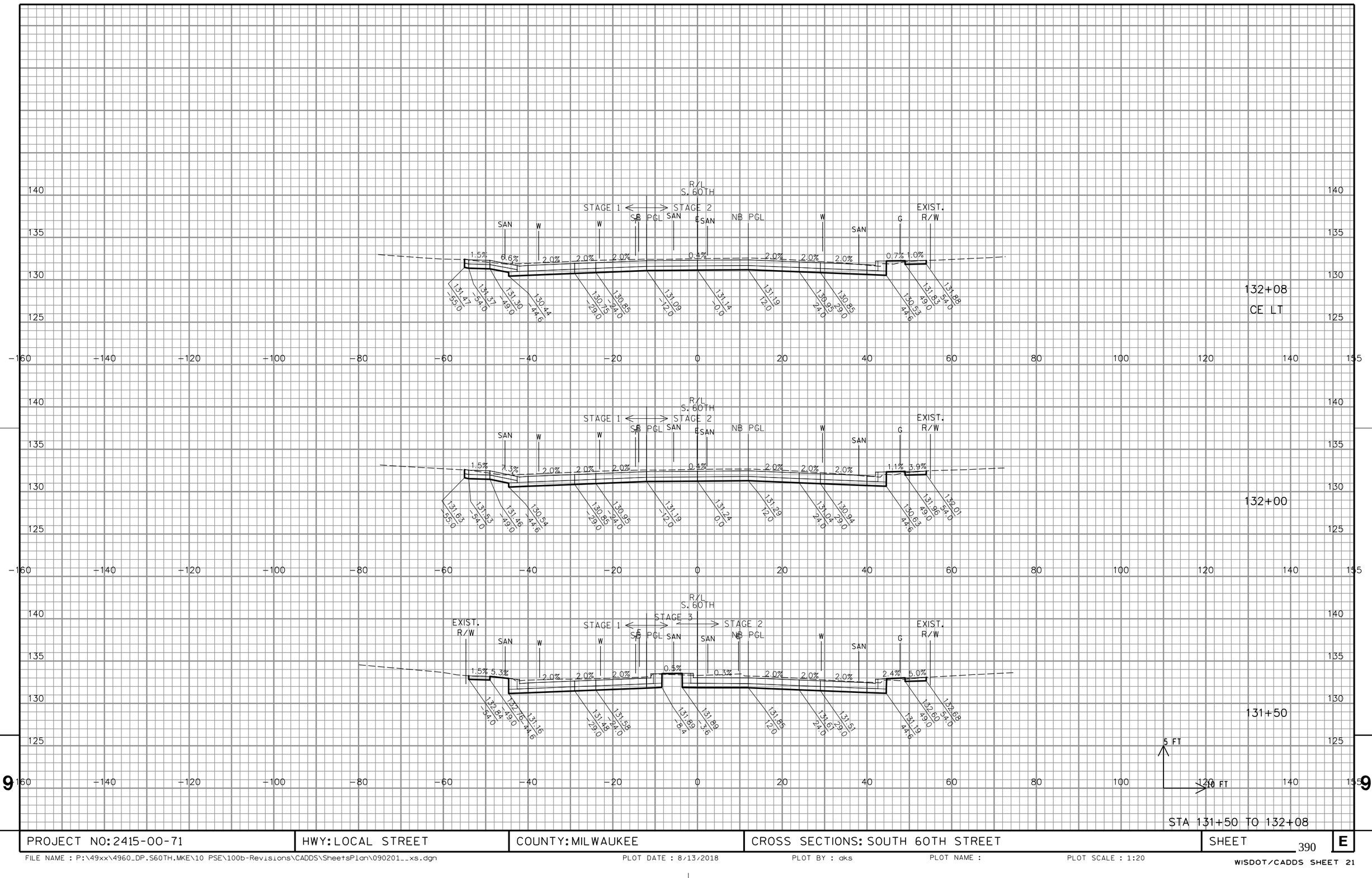
40 FT

STA 130+00 TO 131+07

9

9

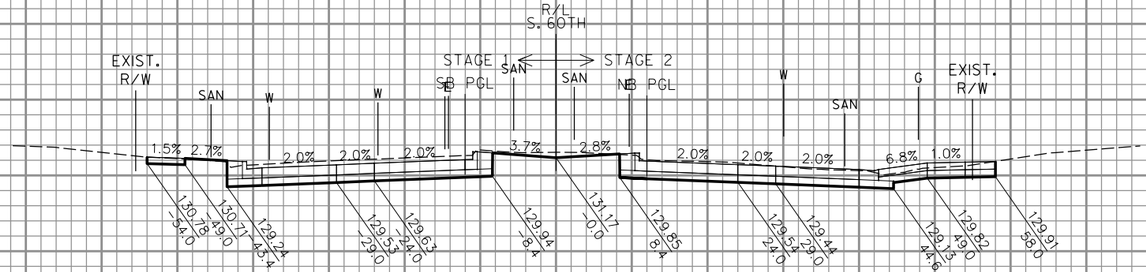
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 389	E



PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 390	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

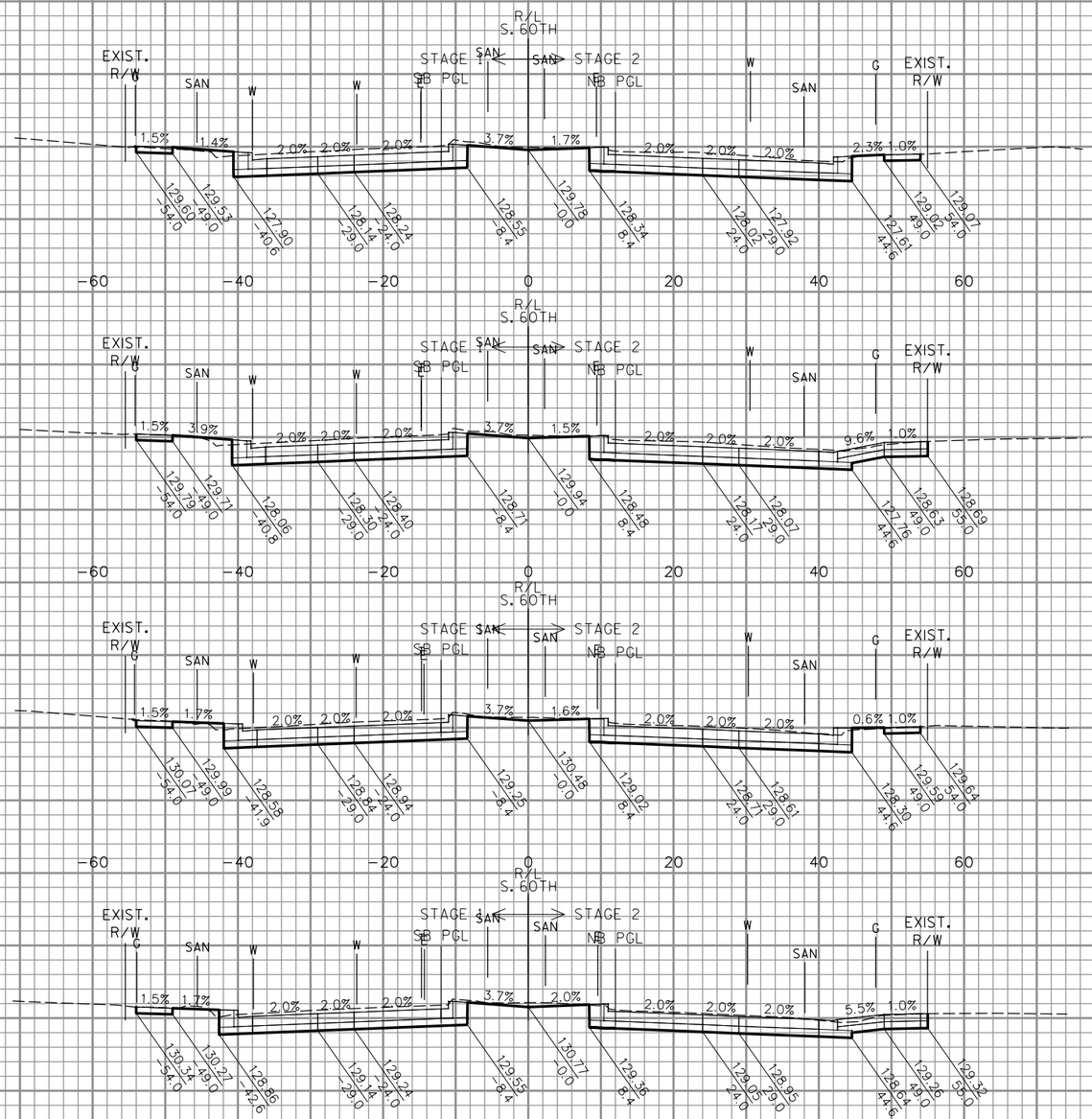
WISDOT/CADDS SHEET 21



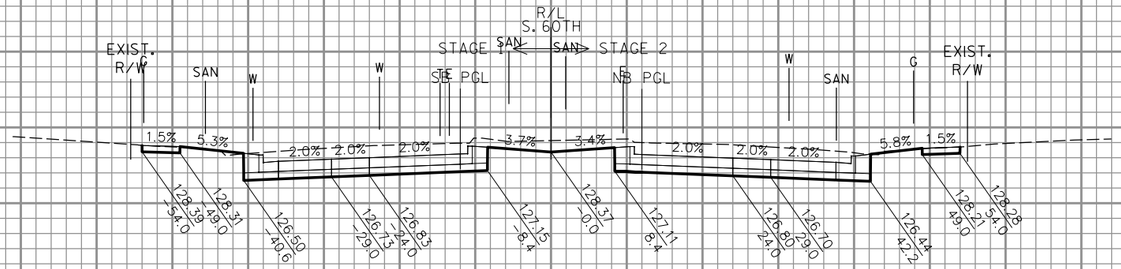
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 391	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

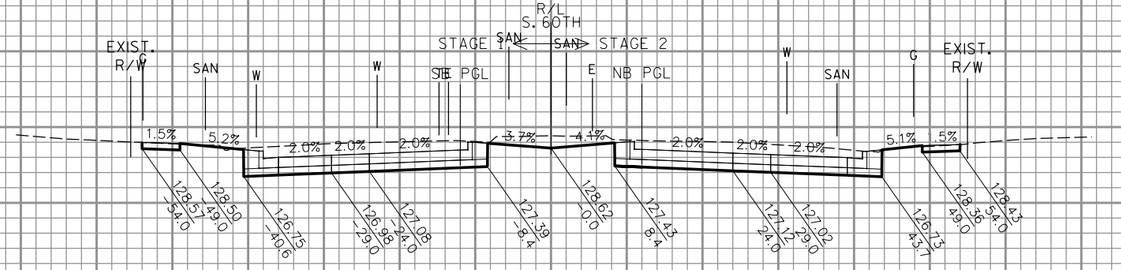
WISDOT/CADDS SHEET 21



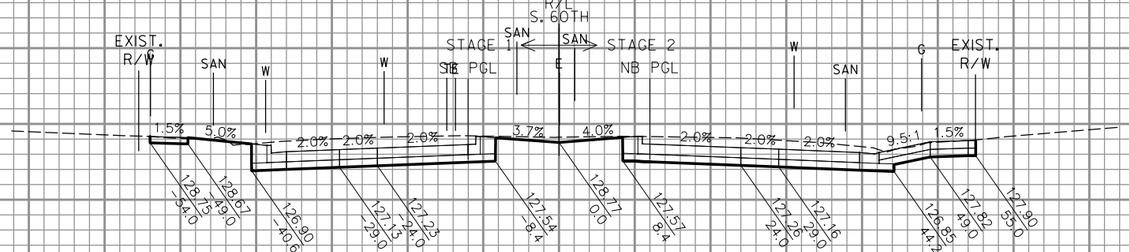
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 392	E



135+50

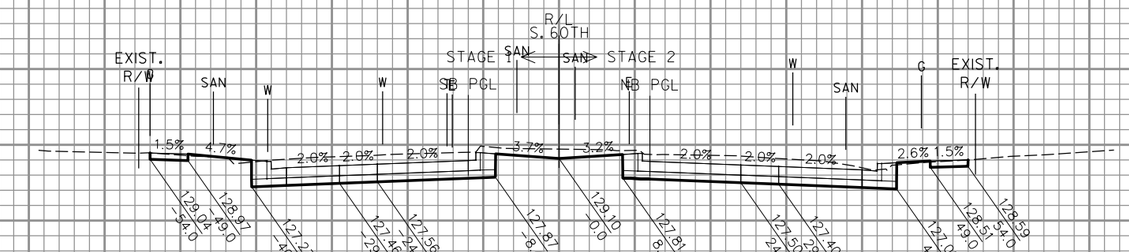


135+00



134+81

PE RT



134+50

5 FT

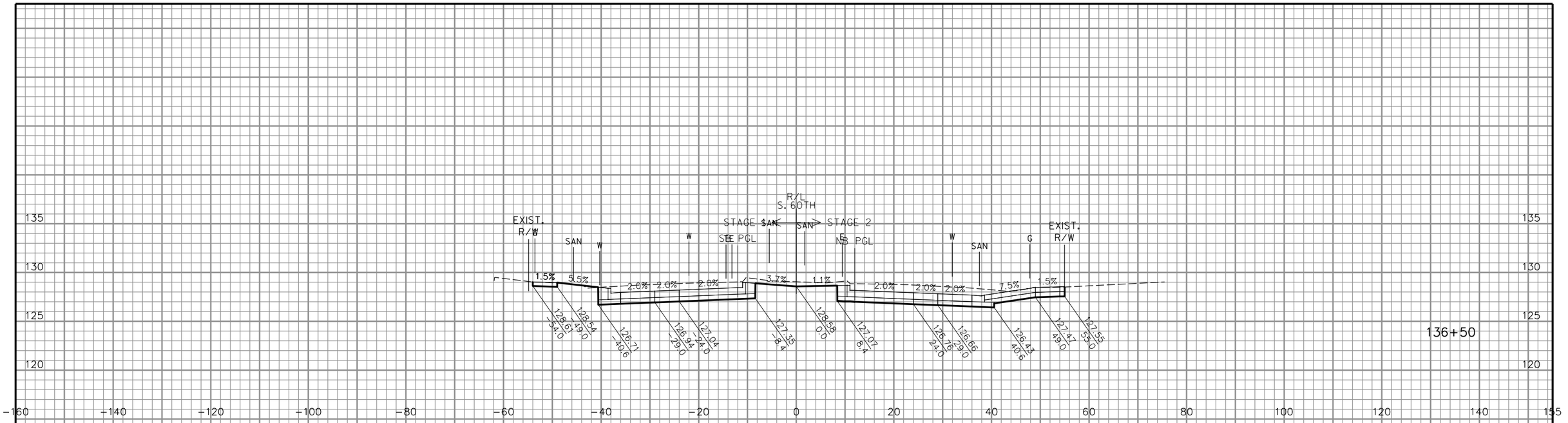
40 FT

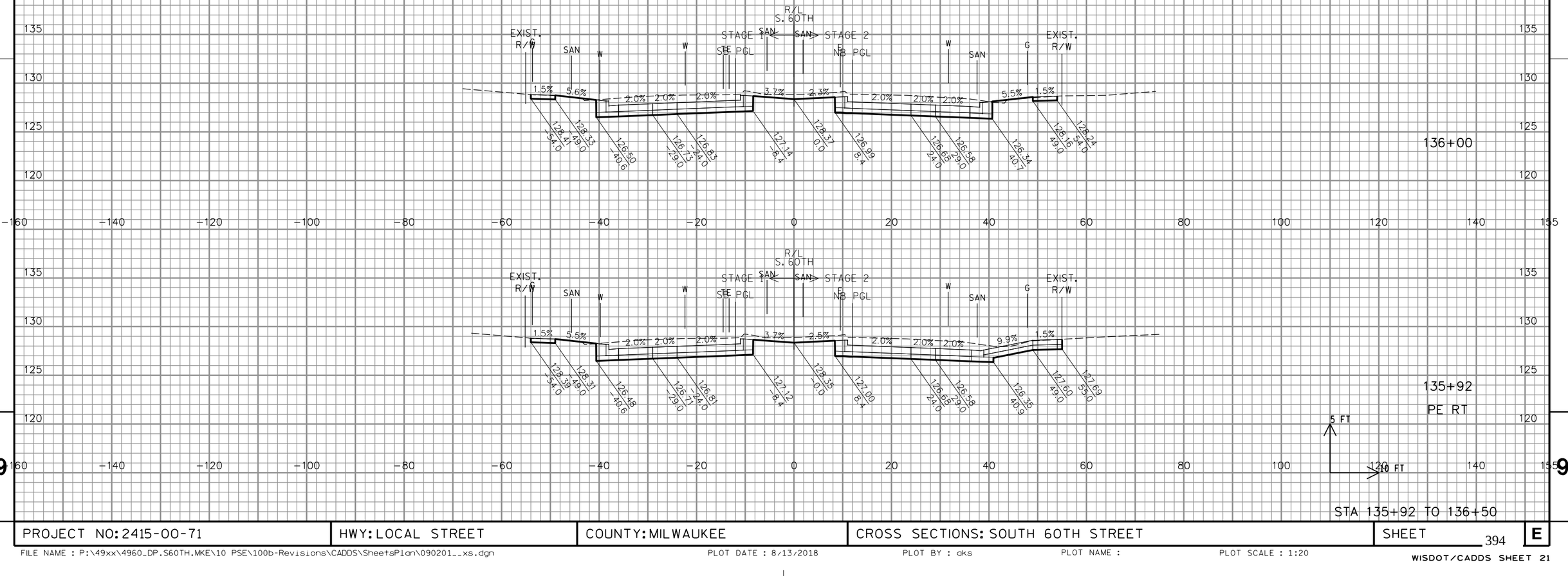
STA 134+50 TO 135+50

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 393	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

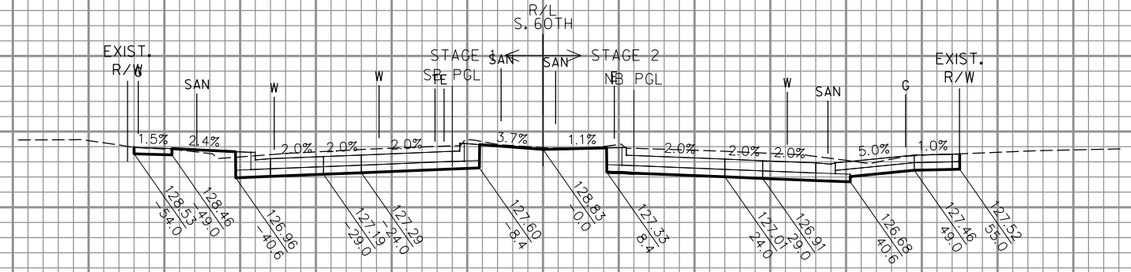
WISDOT/CADDS SHEET 21





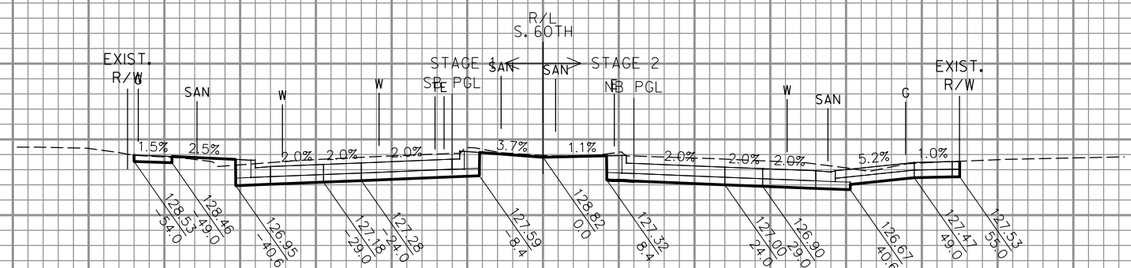
STA 135+92 TO 136+50

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 394	E

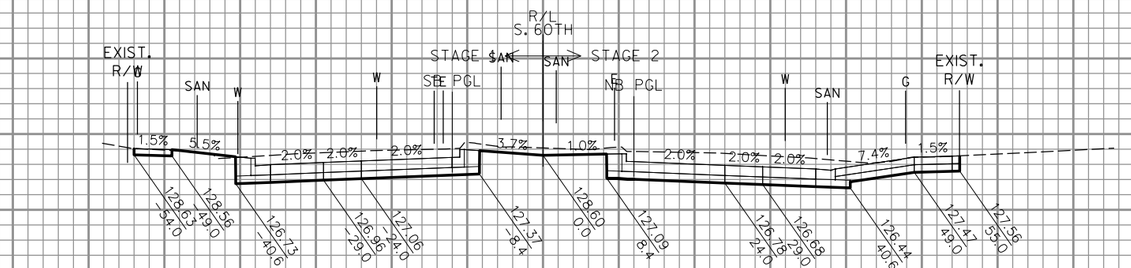


137+02

PE RT

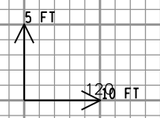


137+00



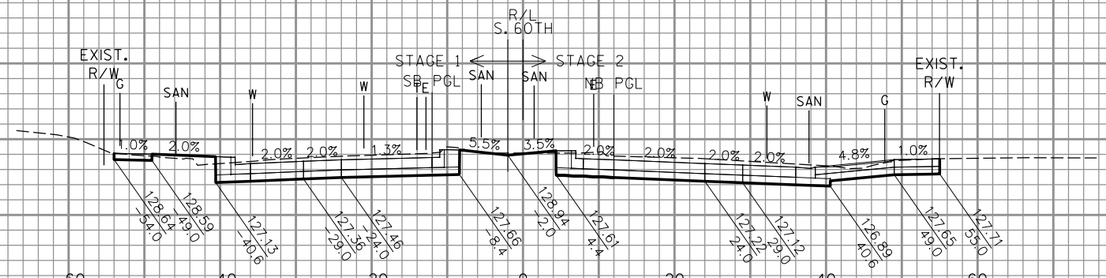
136+54

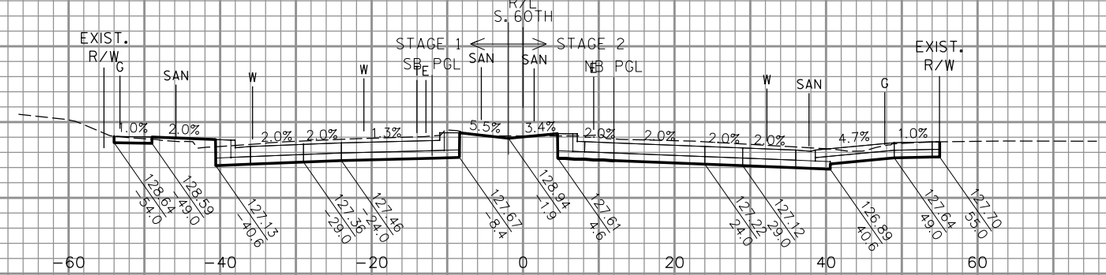
PE RT

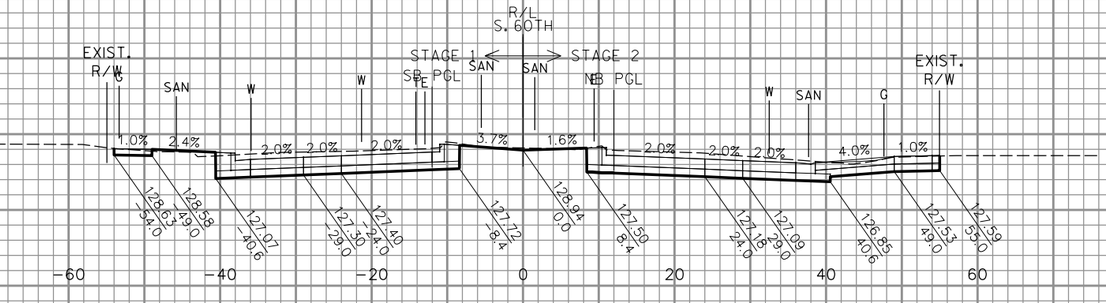


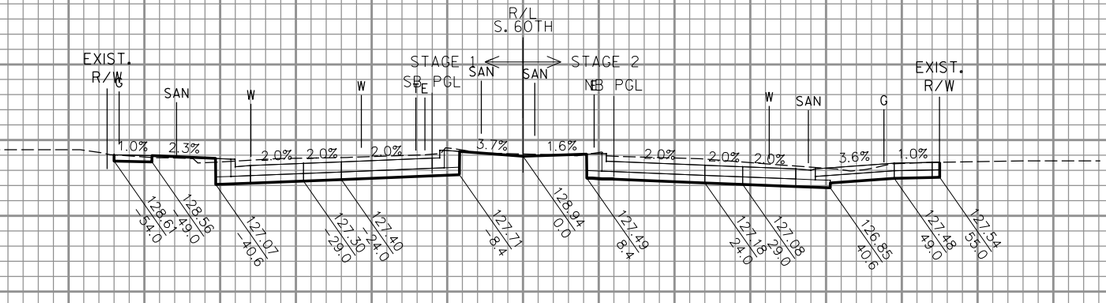
STA 136+54 TO 137+02

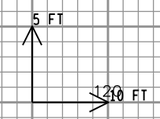
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 395	E











STA 137+47 TO 138+00

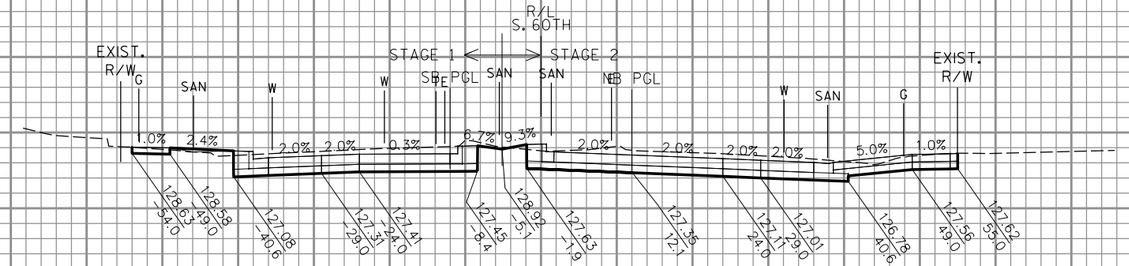
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 396	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

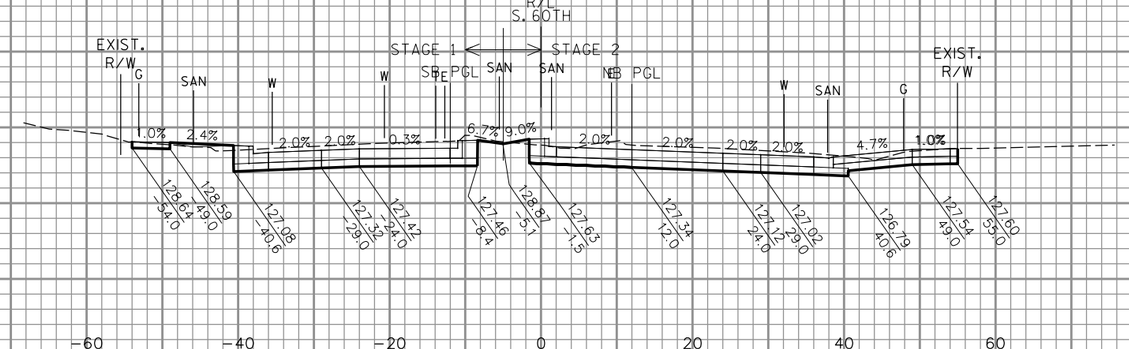
WISDOT/CADDS SHEET 21

9

9

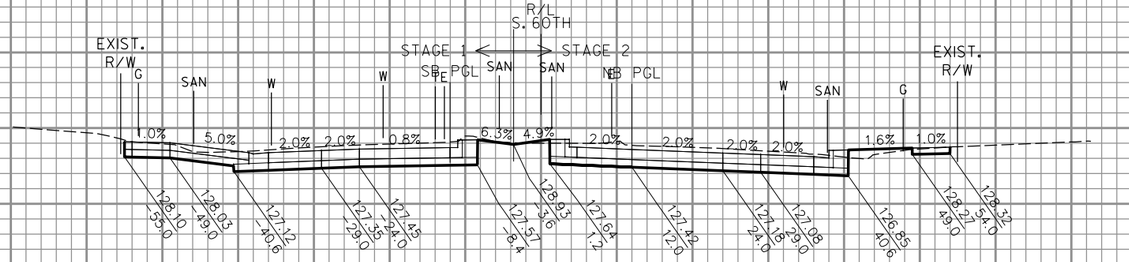


138+50



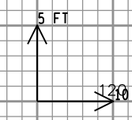
138+47

PE RT



138+26

PE LT



STA 138+26 TO 138+50

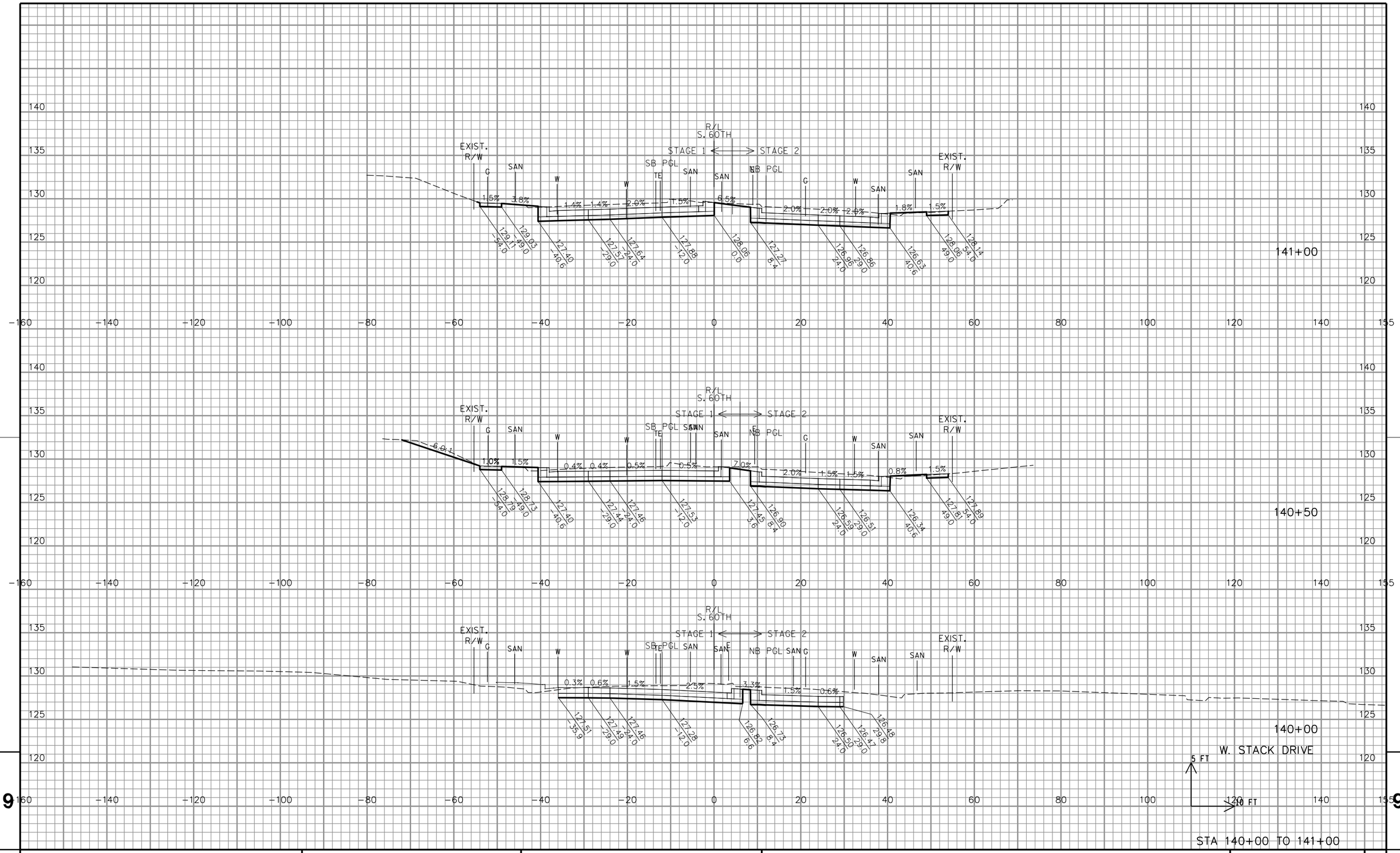
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 397	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

STA 138+77 TO 139+50

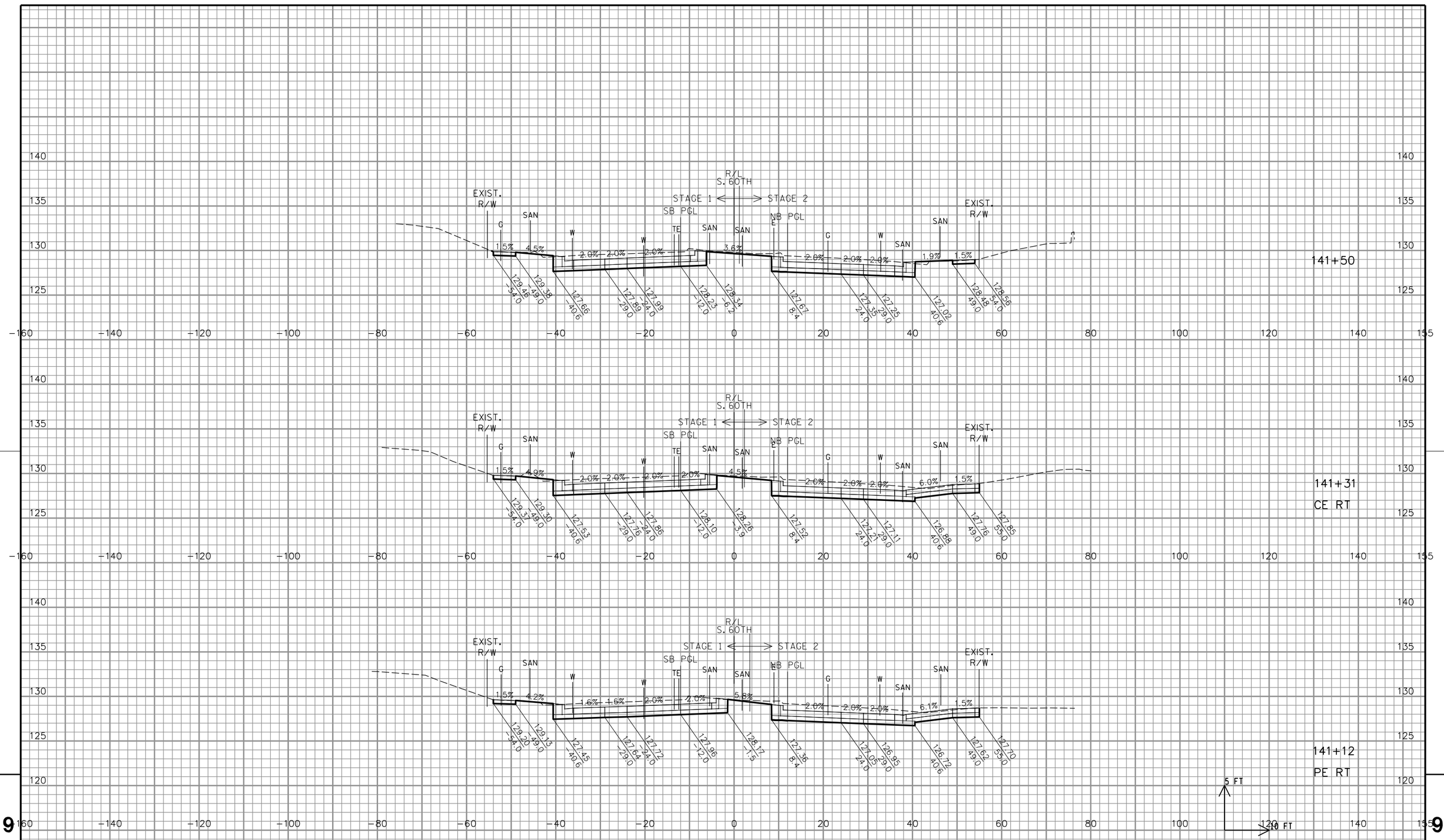
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 398	E



PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 399	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 400	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 401	E

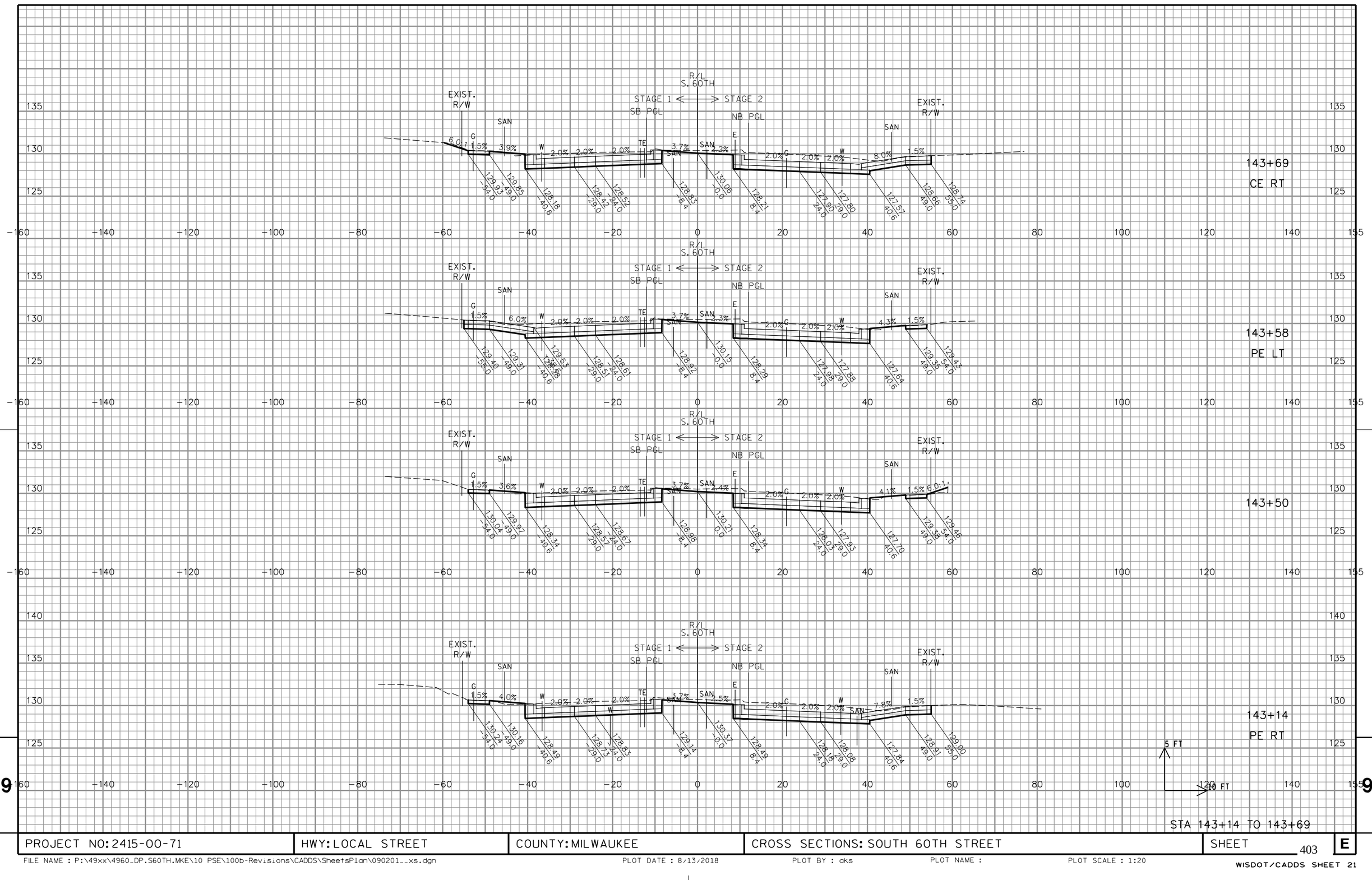
FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn | PLOT DATE : 8/13/2018 | PLOT BY : aks | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 402	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

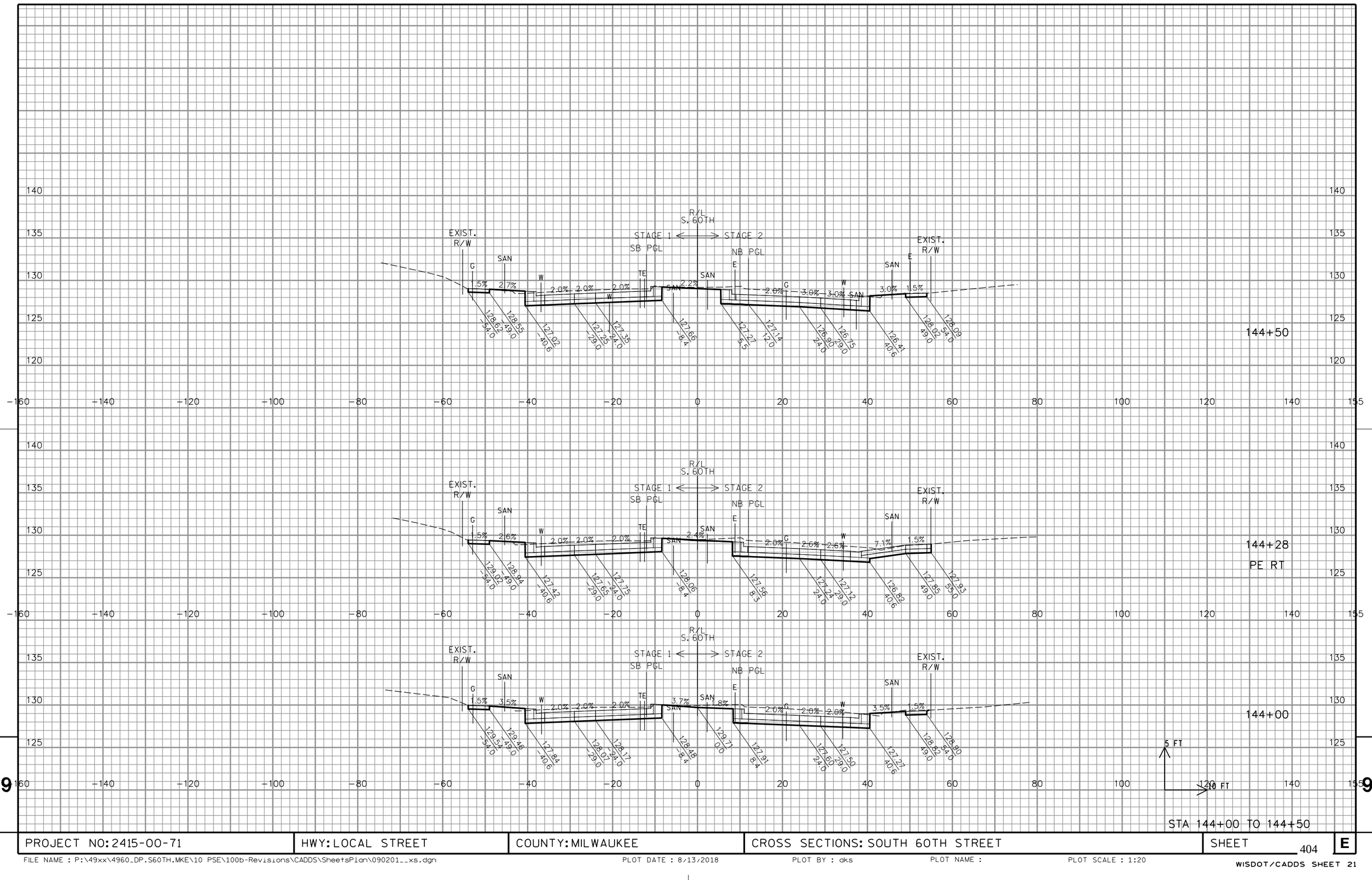
WISDOT/CADDS SHEET 21



PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 403	E

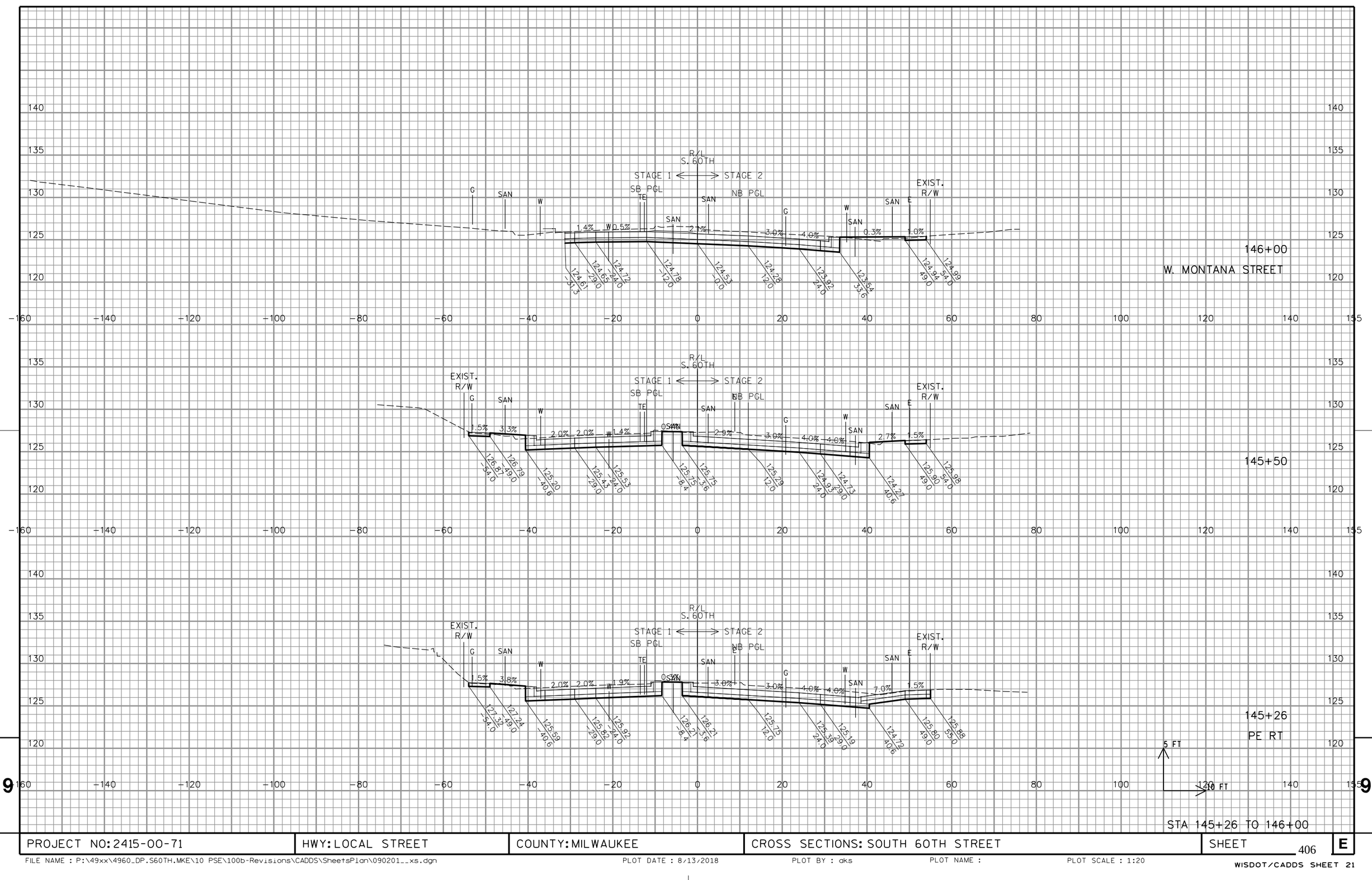
FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 404	E

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 405	E



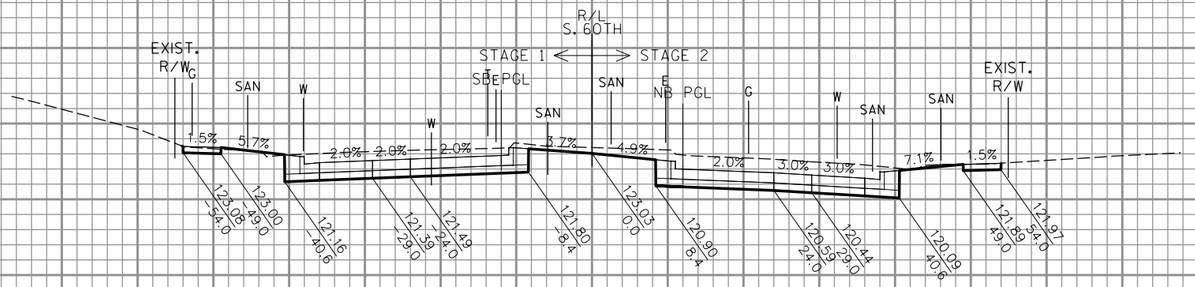
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 406	E

STA 146+50 TO 147+00

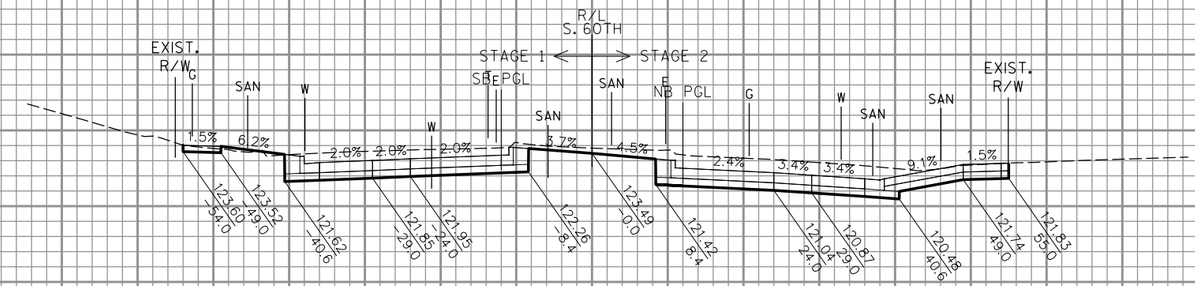
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 407	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

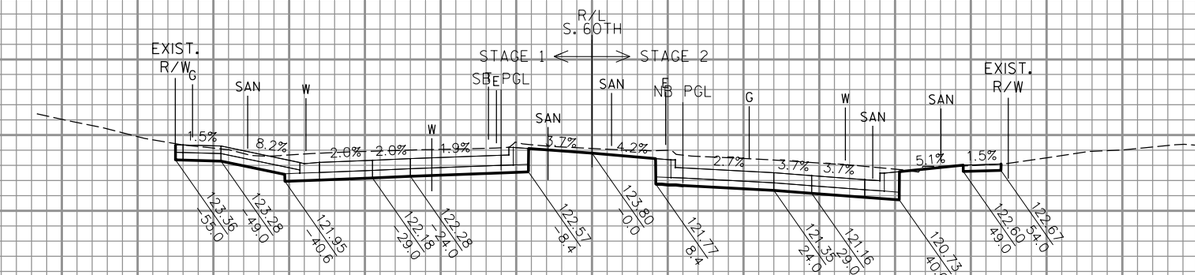


147+50



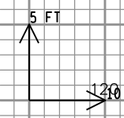
147+29

CE RT



147+14

PE LT

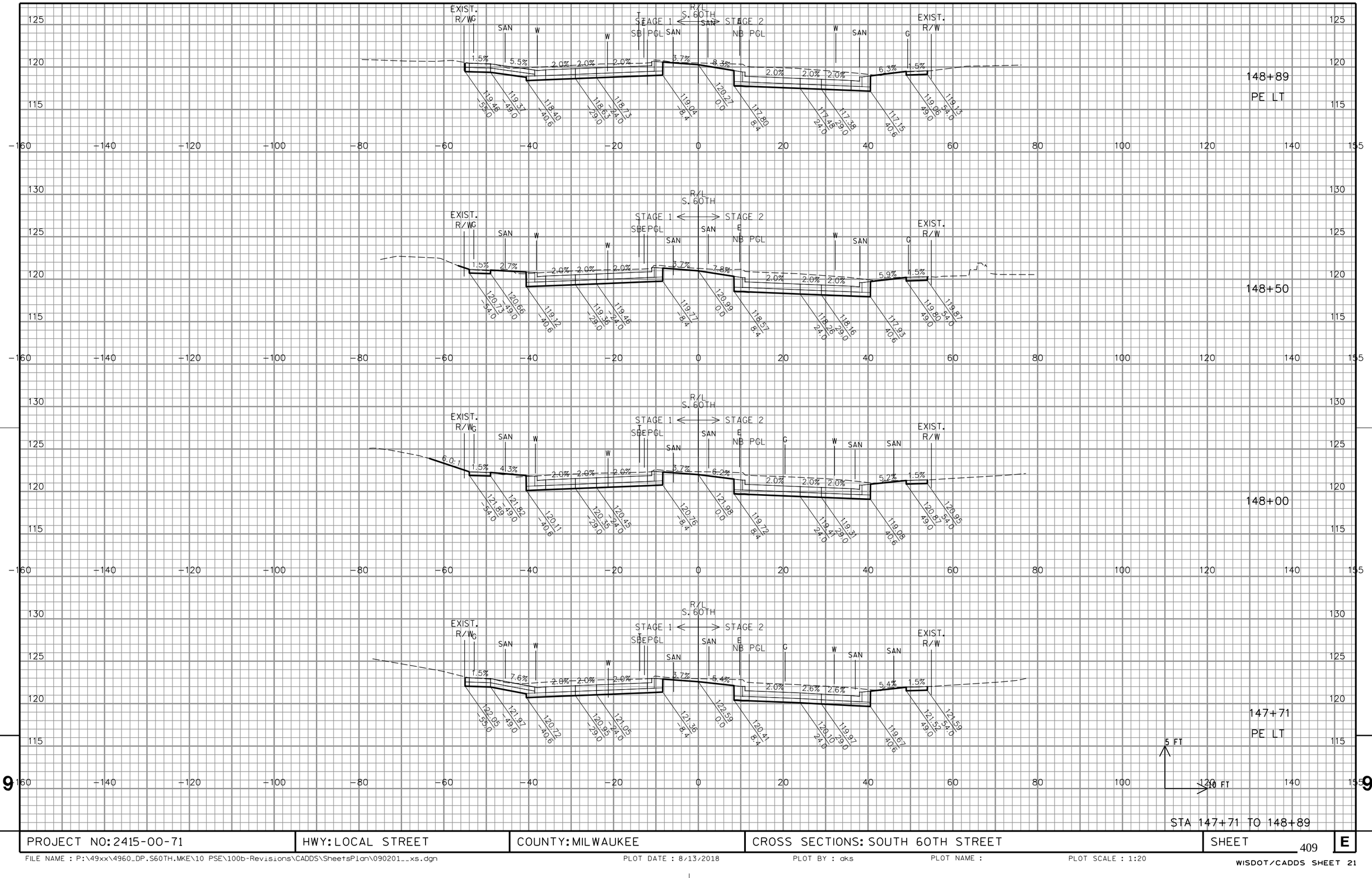


STA 147+14 TO 147+50

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 408	E

9

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn
PLOT DATE : 8/13/2018
PLOT BY : dks
PLOT NAME :
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21

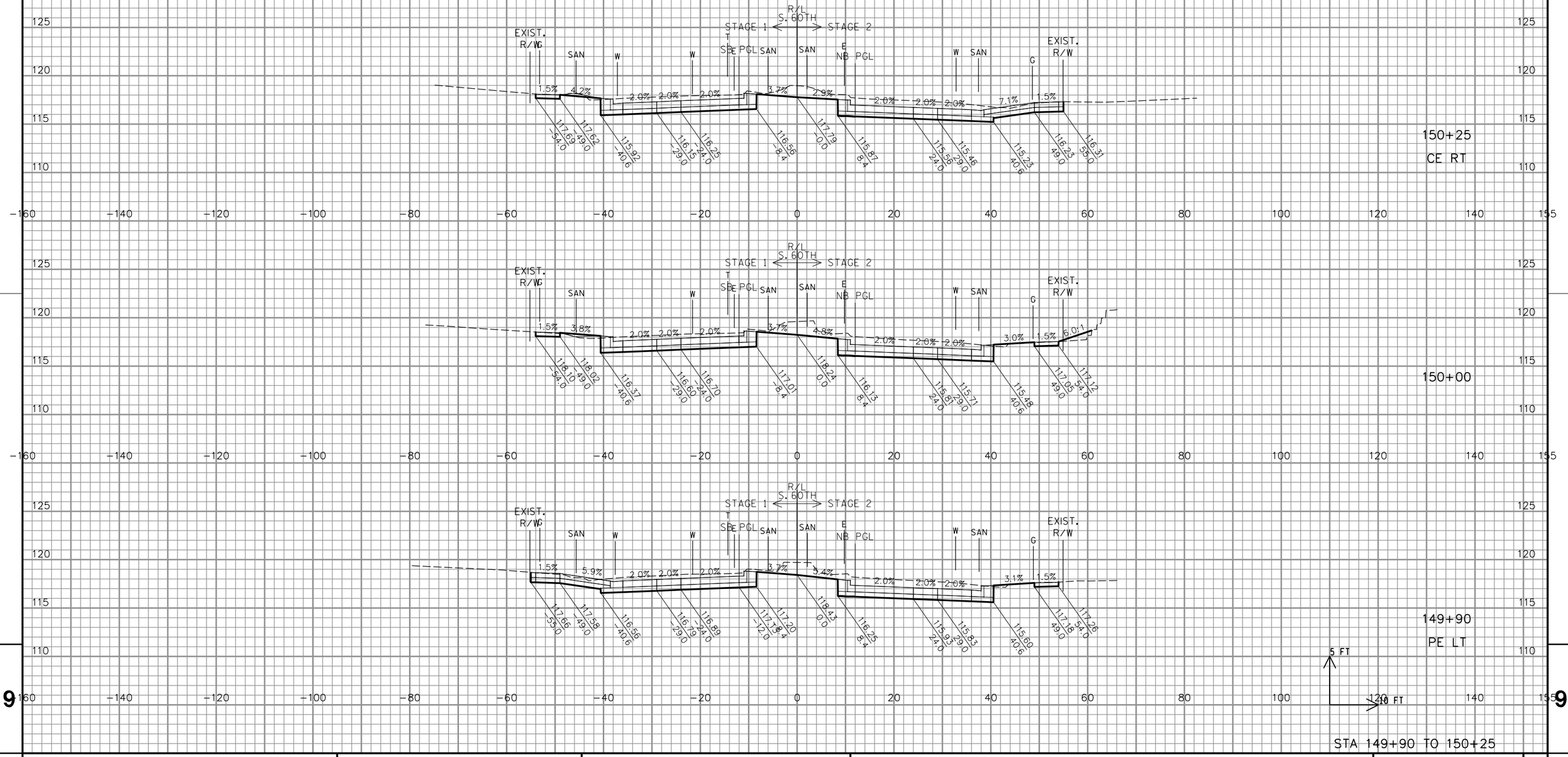


PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 409	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn
PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 410	E

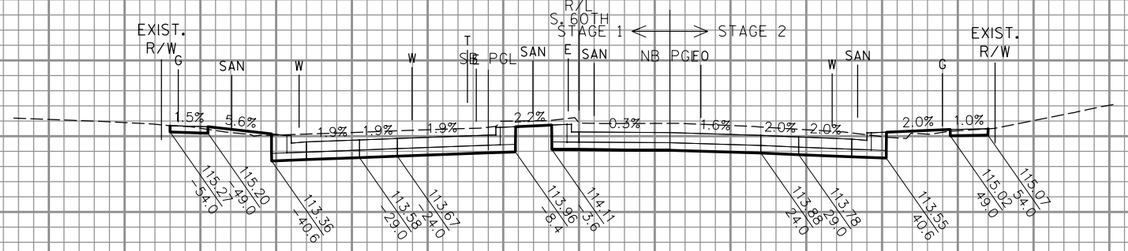


PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 411	E

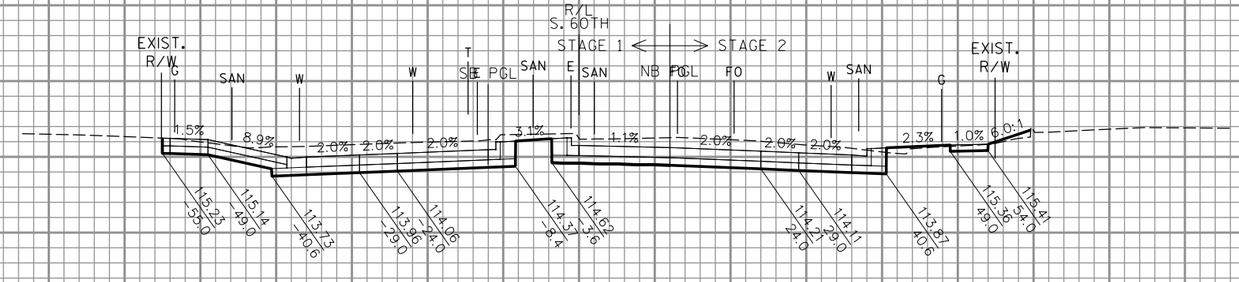
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 412	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : aks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

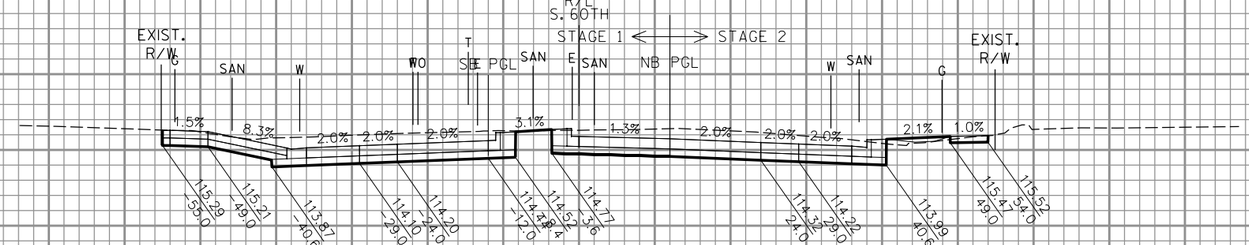


152+00

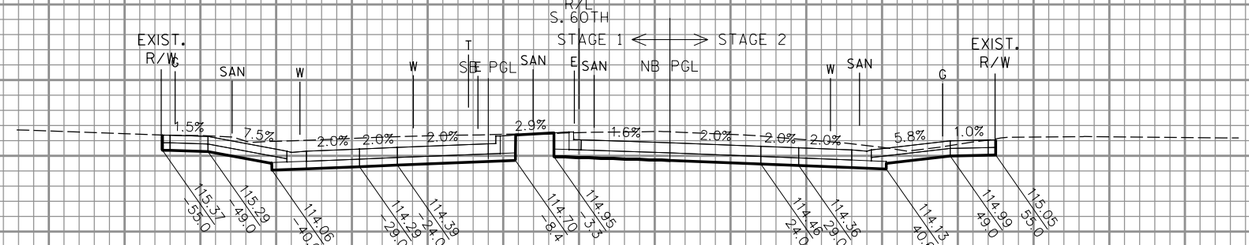


151+62

CE RT

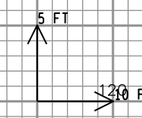


151+50



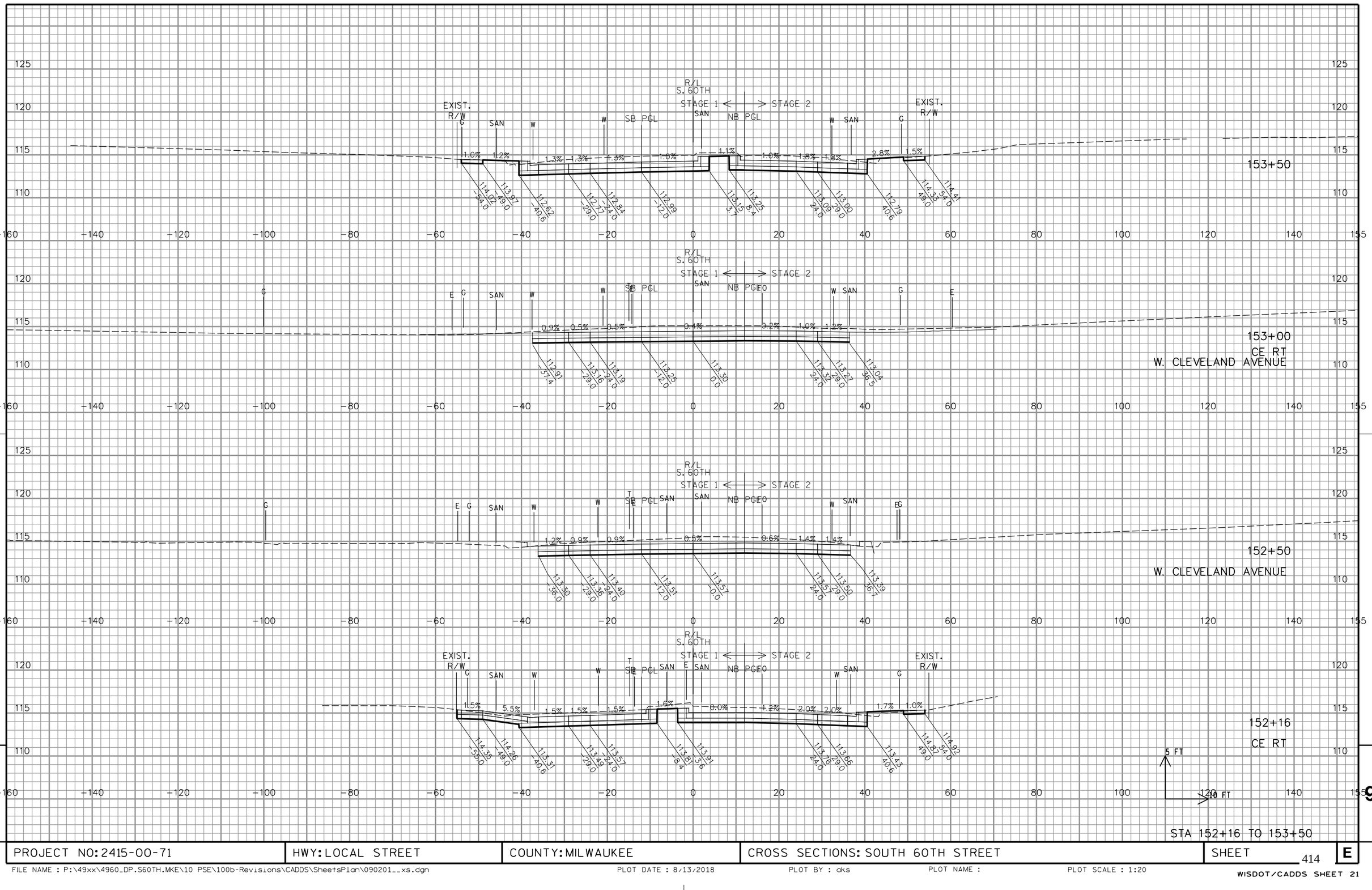
151+36

CE RT



STA 151+36 TO 152+00

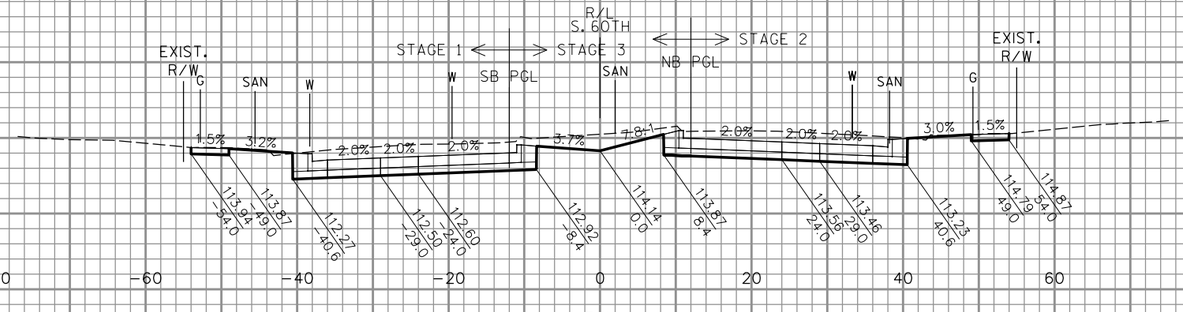
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 413	E



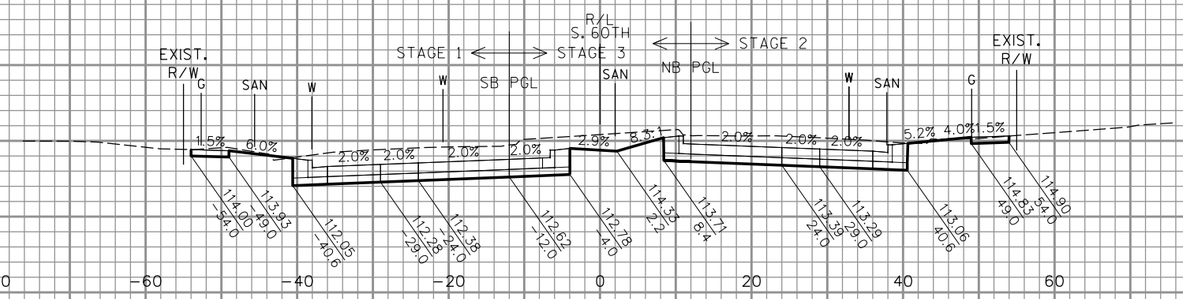
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 414	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

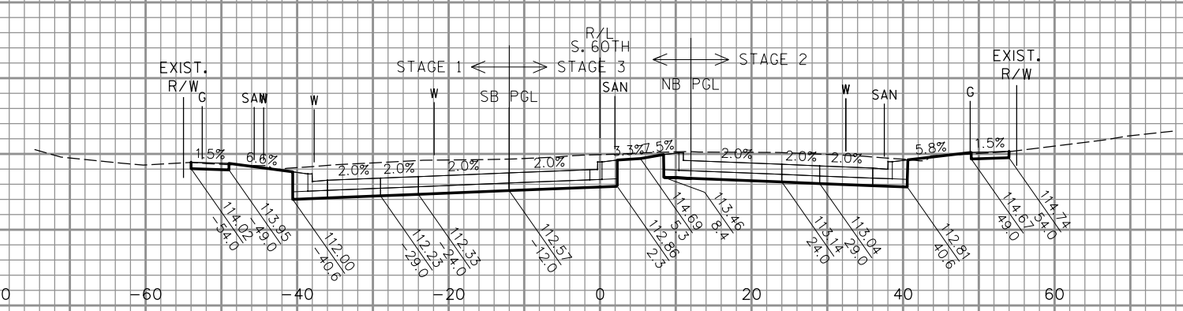
WISDOT/CADDS SHEET 21



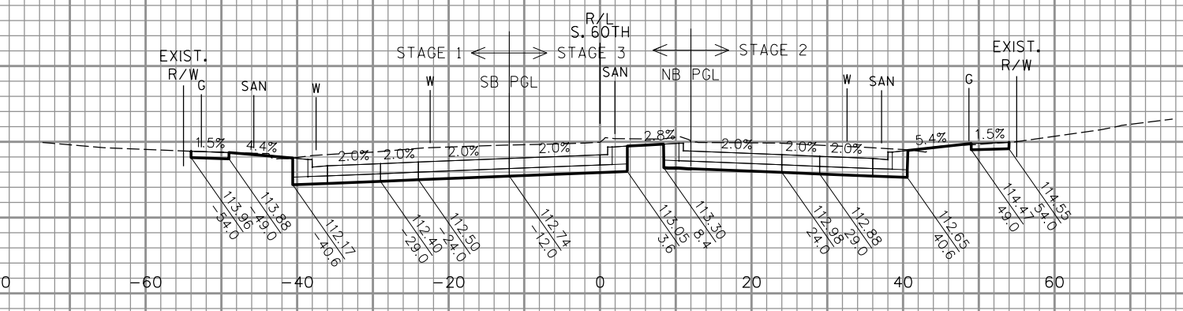
155+50



155+00



154+50



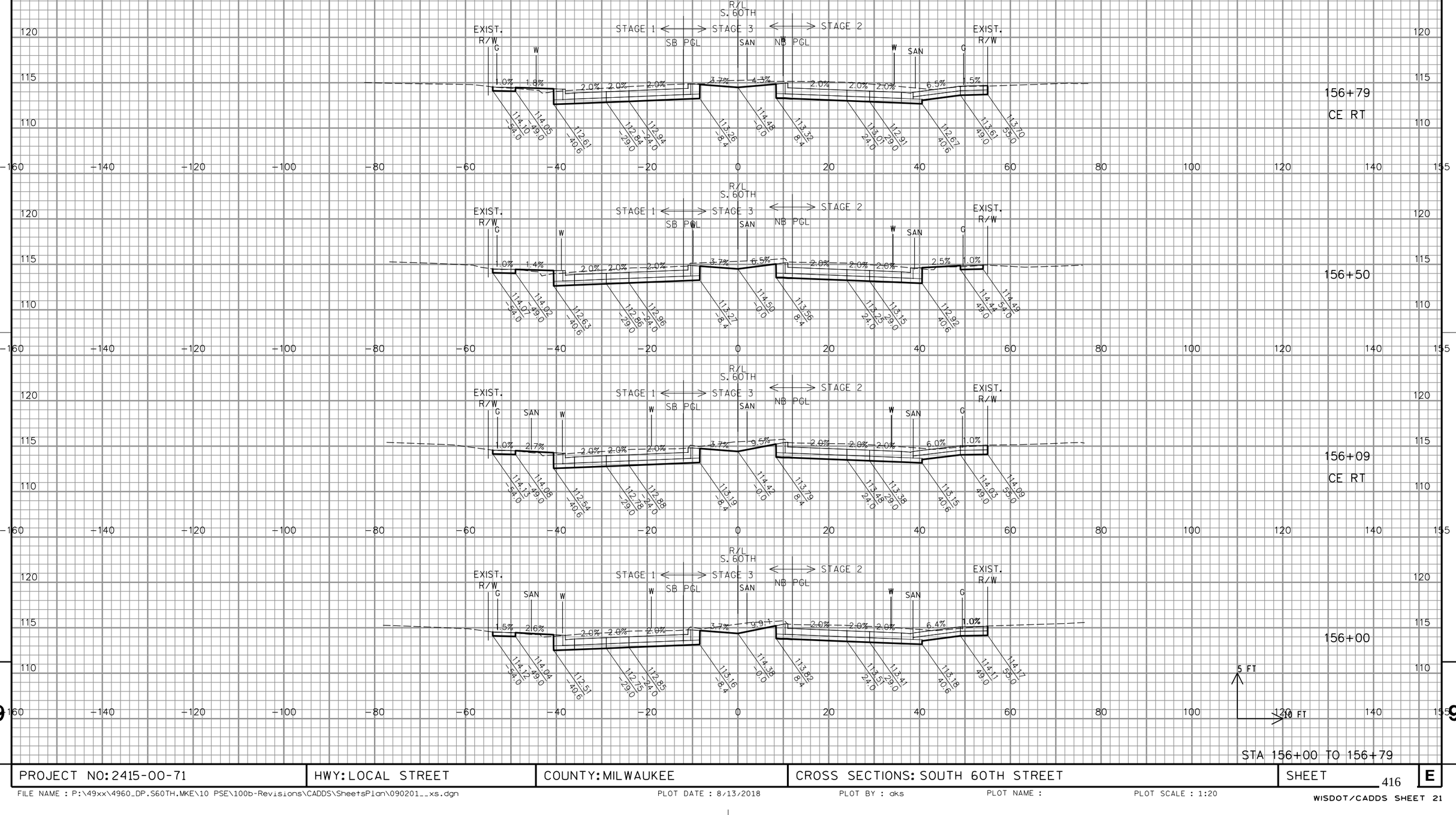
154+00

5 FT

40 FT

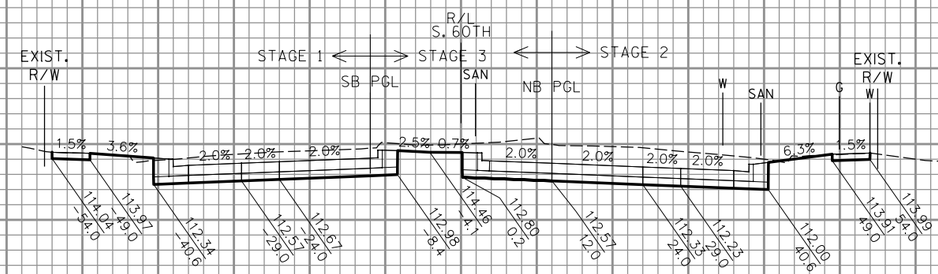
STA 154+00 TO 155+50

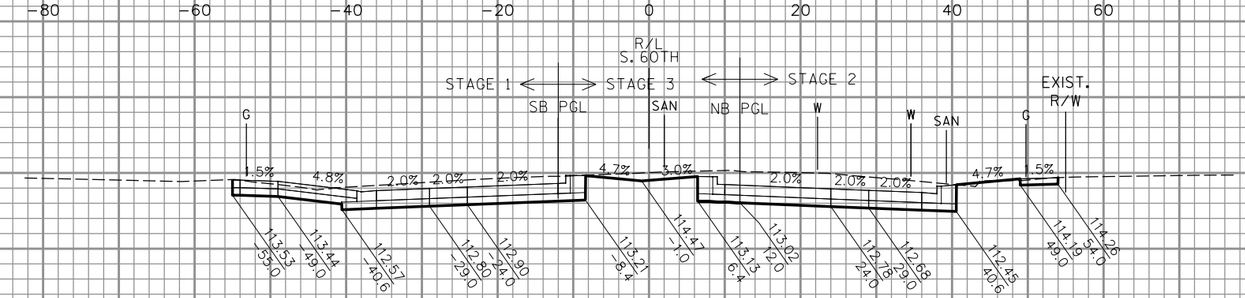
PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 415	E

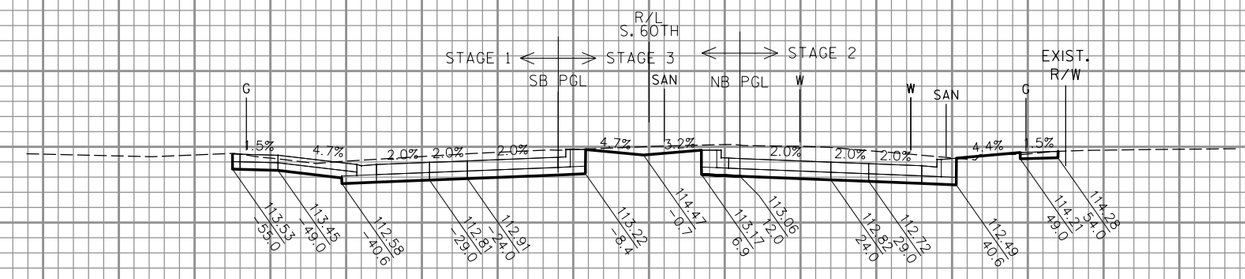


STA 156+00 TO 156+79

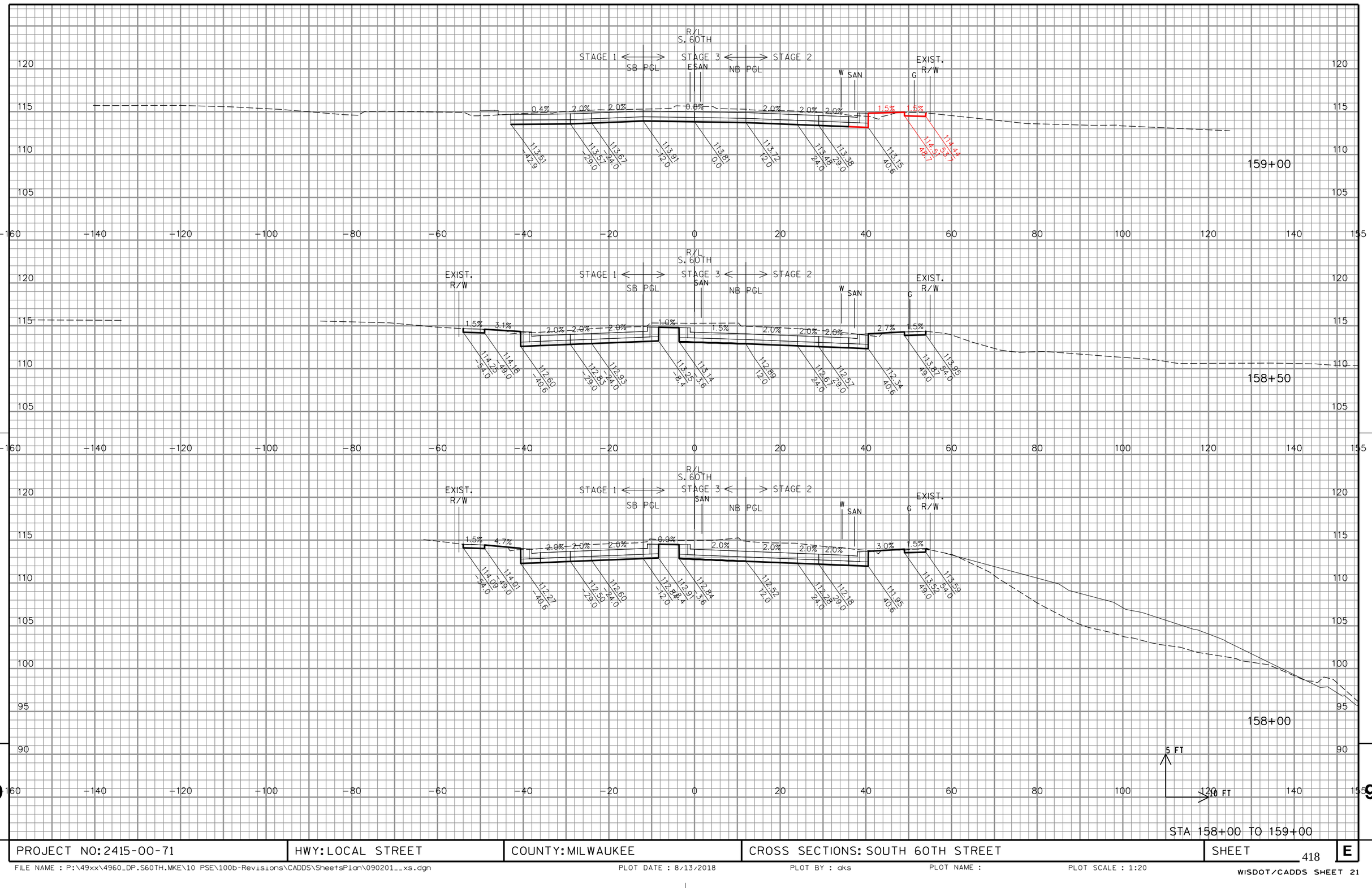
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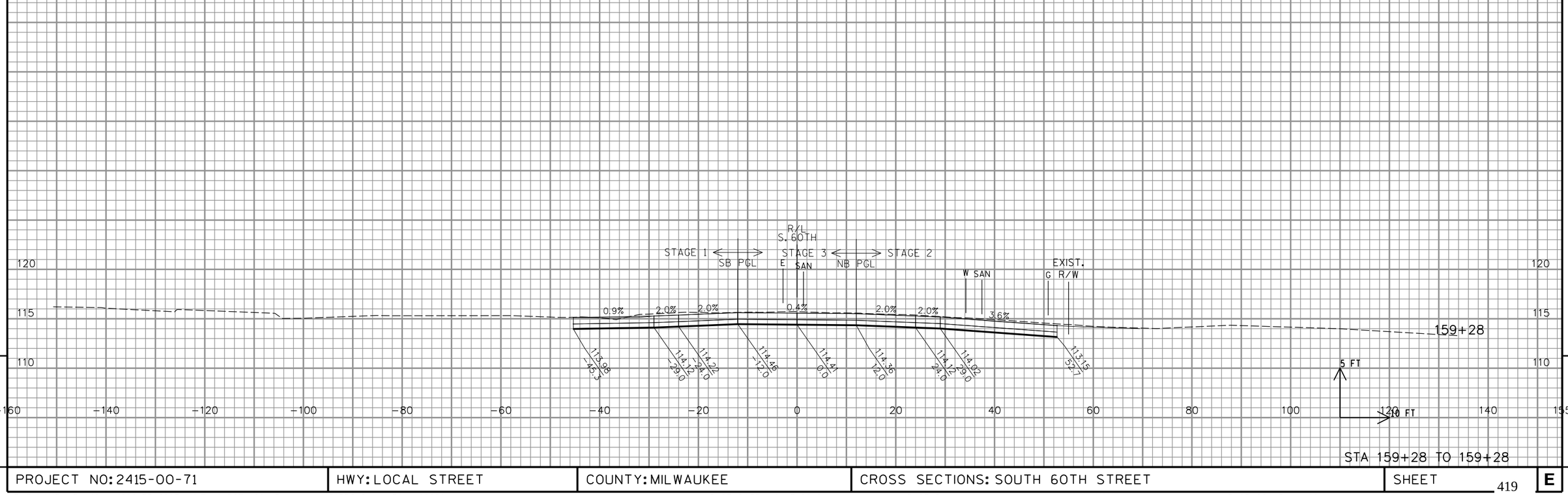


PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 417	E



STA 158+00 TO 159+00

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 418	E



STA 159+28 TO 159+28

PROJECT NO: 2415-00-71	HWY: LOCAL STREET	COUNTY: MILWAUKEE	CROSS SECTIONS: SOUTH 60TH STREET	SHEET 419	E

FILE NAME : P:\49xx\4960_DP.S60TH.MKE\10 PSE\100b-Revisions\CADDS\SheetsPlan\090201__xs.dgn PLOT DATE : 8/13/2018 PLOT BY : dks PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

Wisconsin Department of Transportation

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