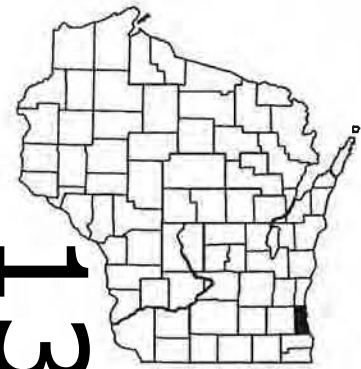


WKE

DEC 12
ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details (Includes Erosion Control Plans)
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 = 320



DESIGN DESIGNATION	STH 100 - IH 894
A.A.D.T. (2012)	= 29,925
A.A.D.T. (2032)	= 32,800
D.H.V.	= 3.3%
D.D.	= 50/50
T.	= 5.0%
DESIGN SPEED	= 40 MPH
ESALS	= 4,847,200

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)	---
SPECIAL DITCH	---
GRADE ELEVATION	---
CULVERT (Profile View)	---
UTILITIES	
ELECTRIC	---
FIBER OPTIC	---
GAS	---
SANITARY SEWER	---
STORM SEWER	---
TELEPHONE	---
WATER	---
UTILITY PEDESTAL	---
POWER POLE	---
TELEPHONE POLE	---

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

GREENFIELD AVENUE, CITY OF WEST ALLIS

(106TH STREET - 101ST STREET)

STH 59

MILWAUKEE COUNTY

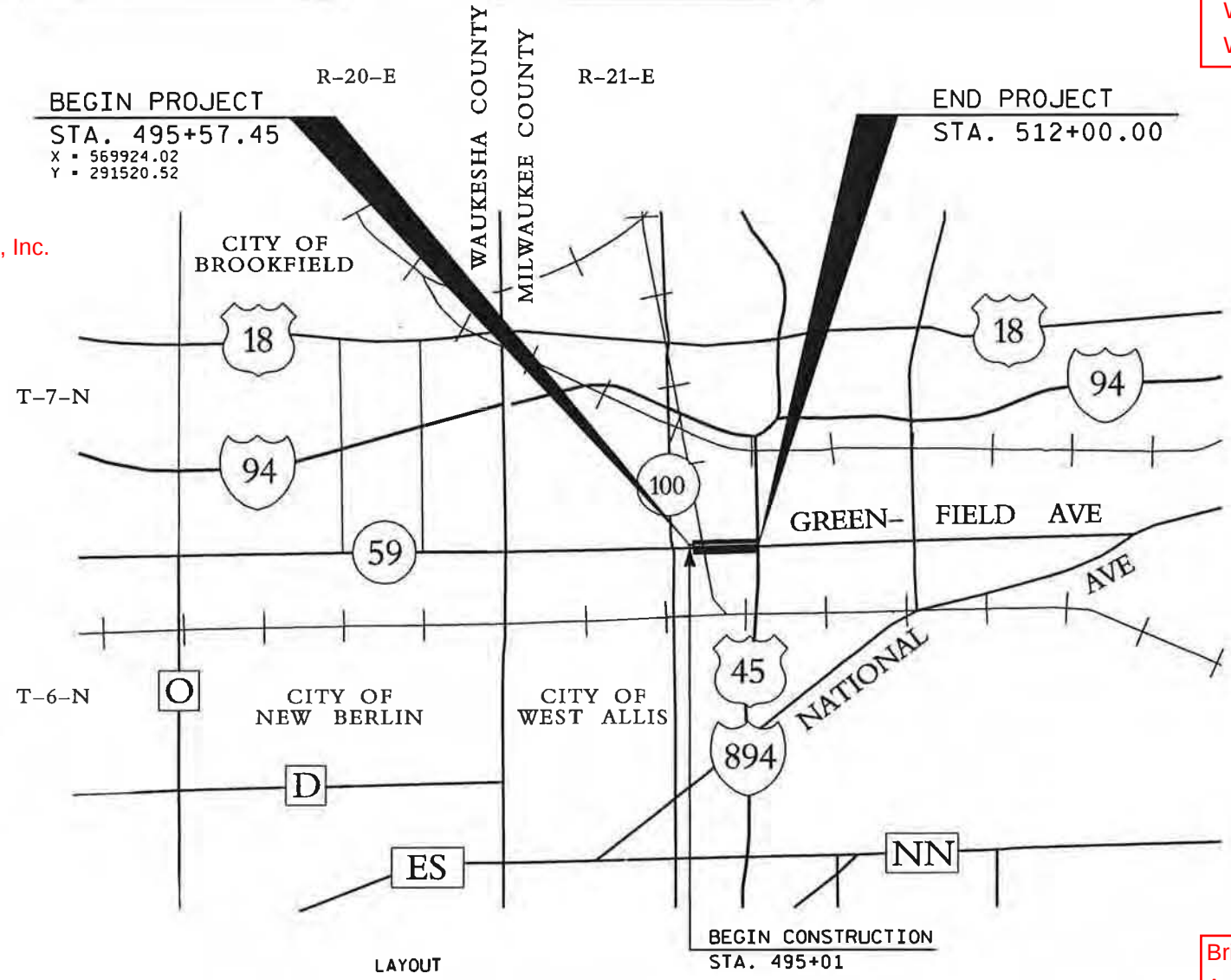
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2230-15-70		
2230-15-71		

AS-BUILT PLAN

SUPERVISOR: Jason Roselle
PROJECT MANAGER: Jay Obenberger
PROJECT LEADER: Steven Bruce
CONTRACTOR: Zignego Construction Company
WORK STARTED 1/23/13
WORK COMPLETED 8/16/13

STATE PROJECT NUMBER
2230-15-70

STATE PROJECT NUMBER
2230-15-71



LAYOUT
SCALE 0 0.5 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.311 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY, NAD 83 (2007).

ELEVATIONS ON THIS PLAN ARE BASED ON THE NAVD88 (2007) VERTICAL DATUM.



7/20/12
(Date) Aaron Steger
(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	WISDOT
Designer	KL ENGINEERING, INC.
Project Manager	JASON LYNCH
Regional Examiner	
Regional Supervisor	WAFA ELQAO

APPROVED FOR THE DEPARTMENT
DATE: 7/29/12
(Signature)

Brian Klipstein
As-Built 1/7/14

ABBREVIATIONS

AS	ASPHALTIC SURFACE
BAD	BASE AGGREGATE DENSE
BLDG.	BUILDING
BM	BENCH MARK
C.E.	COMMERCIAL ENTRANCE
C/L	CENTERLINE
CMCP	CORRUGATED METAL CULVERT PIPE
CPCS	CULVERT PIPE CORRUGATED STEEL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CONC.	CONCRETE
CP	CULVERT PIPE
CSW	CONCRETE SIDEWALK
CTR	CENTER
EB	EASTBOUND
HMA	HOT MIX ASPHALT
HSE.	HOUSE
LHF	LEFT HAND FORWARD
MAX.	MAXIMUM
MIN.	MINIMUM
NOR.	NORMAL
P.E.	PRIVATE ENTRANCE
P.L.	PROPERTY LINE
PRW	PROPOSED RIGHT-OF-WAY
RAD	RADIUS
REQ'D.	REQUIRED
RHF	RIGHT HAND FORWARD
R/L	REFERENCE LINE
R/W	RIGHT-OF-WAY
S.D.D.	STANDARD DETAIL DRAWING
SEWRPC	SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
SF	SQUARE FEET
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
STA	STATION
SY	SQUARE YARD
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
WB	WESTBOUND

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
STORM SEWER & EROSION CONTROL PLAN
SANITARY SEWER PLAN
WATER MAIN PLAN
PERMANENT SIGNING PLAN
LIGHTING PLAN
TRAFFIC SIGNAL PLAN
INTERCONNECT PLAN
PAVEMENT MARKING PLAN
TRAFFIC CONTROL AND CONSTRUCTION STAGING PLAN
ALIGNMENT/CONTROL POINT DETAIL

WISDOT CONTACT

JASON LYNCH, P.E.
WISDOT SE REGION
141 NW BARSTOW STREET
P.O. BOX 798
WAUKESHA, WI 53187
(414) 750-0538
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DESIGN CONTACT

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KL ENGINEERING, INC.
5950 SEMINOLE CENTRE CT
SUITE 200
MADISON, WI 53711
(608) 663-1218
asteger@klengineering.com

AGENCY CONTACTS

DNR LIAISON (MILWAUKEE CO.)
DEPARTMENT OF NATURAL RESOURCES
ATTN: MIKE THOMPSON
2300 N. DR. MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI 53212
(414) 263-8648

SEWRPC
JOHN WASHBURN
W239 N 1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187
(414) 218-2866
jwashburn@sewrpc.org

PUBLIC TRANSIT
DAVE ZIAREK
MILWAUKEE COUNTY TRANSIT SYSTEM
1942 NORTH 17TH STREET
MILWAUKEE, WI 53205
(414) 343-1764
dziarek@mcts.org

GENERAL NOTES

ALL RADII DIMENSIONS ARE MEASURED TO THE FACE OF CURB UNLESS OTHERWISE NOTED.

ALL EDGE OF PAVEMENT GRADES PROVIDED ARE ALONG FLANGE OF CURB.

EXPANSION JOINTS TO BE CONSTRUCTED AT ALL RADIIPOINTS IN THE CURB AND GUTTER OR AT LOCATIONS SHOWN ON THE PLAN.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES INSTALLATIONS AS SHOWN IN THE PLANS, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

UTILITY REFERENCE LINES ON THE CROSS SECTIONS ARE FOR APPROXIMATE HORIZONTAL REFERENCE ONLY.

REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALT SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

TOPSOIL GRADED AREAS AS DESIGNATED BY THE ENGINEER IMMEDIATELY AFTER GRADING HAS BEEN COMPLETED WITHIN THOSE AREAS. PERFORM FINAL LANDSCAPING OF ALL TOPSOILED AREAS WITHIN 3 CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL.

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

PIPE ELEVATIONS, LENGTHS, AND LOCATIONS AS SHOWN ON THE PLANS, MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CONTRACTOR IS RESPONSIBLE FOR RESHAPING AND FINISHING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATION OUTSIDE THE NORMAL CONSTRUCTION LIMITS.

THE EXACT LOCATION OF DRIVEWAYS IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND.

SIDEROAD PAVEMENT STRUCTURE SHALL BE THE SAME AS THE MAINLINE UNLESS OTHERWISE NOTED.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND SEWRPC, AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

HMA PAVEMENT, WHEN INDICATED ON THE PLANS, SHALL CONSIST OF COURSES AS FOLLOWS UNLESS OTHERWISE NOTED ON THE PLANS.

4" TOTAL DEPTH	TYPE	NOMINAL MAX SIZE GRADATION	PERFORMANCE GRADE
2¼" LOWER	E-10	19.0 mm	PG64-22
1¾" UPPER	E-10	12.5 mm	PG64-28

UTILITY CONTACTS

ELECTRIC
KEN FRANECKI
WE ENERGIES (ELECTRIC)
500 S. 116TH STREET-WAOC
WEST ALLIS, WI 53214
(414) 944-5531
kenneth.franecki@we-energies.com

GAS
PAUL OSMANSKI
WISCONSIN GAS COMPANY
d/b/a WE ENERGIES
500 S. 116TH STREET
WEST ALLIS, WI 53214
(414) 944-5796

ITS
KURT WILM
WISDOT STOC
433 W. ST. PAUL AVENUE
STE 300
MILWAUKEE, WI 53203
(414) 227-2151
kurt.wilm@dot.wi.gov

ELECTRICAL
WISDOT ELECTRICAL FIELD UNIT
935 S. 60TH STREET
WEST ALLIS, WI 53214
(414) 266-1170

TRAFFIC SIGNALS
WISDOT TRAFFIC SIGNAL OPERATIONS
141 NW BARSTOW STREET
WAUKESHA, WI 53187
(414) 750-2605

COMMUNICATIONS
MARK SZYMANSKI
AT&T WISCONSIN
7721 W. FOND DU LAC AVE
MILWAUKEE, WI 53218
(414) 535-7417
ms7398@att.com

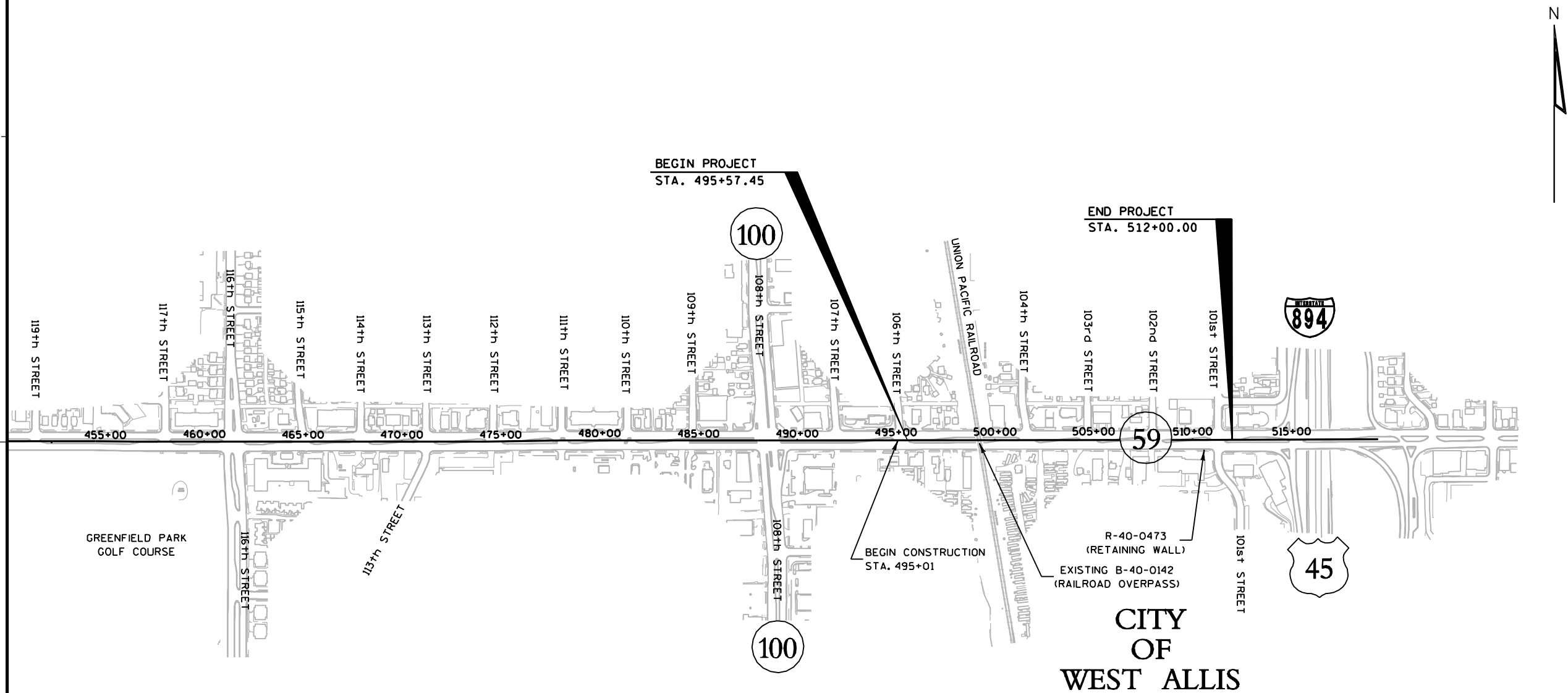
COMMUNICATIONS
JACK RUSSERT
TIME WARNER CABLE
1320 MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI 53212
(414) 277-4245
john.russert@twcable.com

COMMUNICATIONS
MIKE BALL
SPRINT
N7625 GEMINICIRCLE
FOND DU LAC, WI 54937
(920) 251-6632 (CELL)
mike.ball@ericsson.com

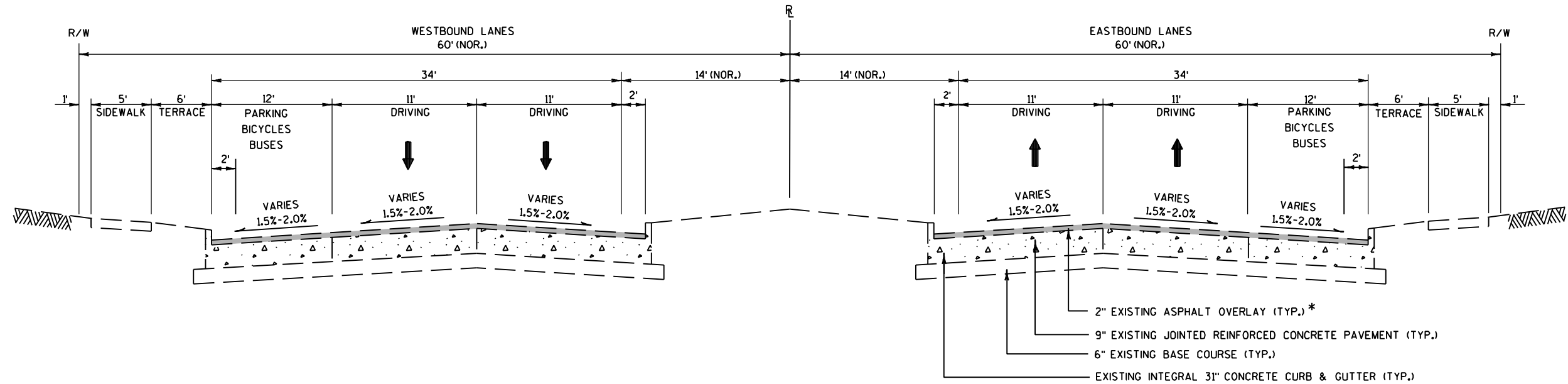
SANITARY & STORM SEWER
BRUCE DANOWSKI
WEST ALLIS MUNICIPAL SANITARY & STORM SEWER
SANITARY & STREETS DIVISION
6300 WEST McGEEOCH AVENUE
WEST ALLIS, WI 53219
(414) 302-8800 (OFFICE)
bdanowski@westalliswi.gov

LIGHTING
TERRY MEINCKE
CITY OF WEST ALLIS STREET LIGHTING
ELECTRICAL SERVICES DIVISION
6300 WEST McGEEOCH AVENUE
WEST ALLIS, WI 53219
(414) 531-5102 (CELL)
(414) 302-8808 (OFFICE)
tmeincke@westalliswi.gov

WATER
DAN SCHWEBKE
WEST ALLIS MUNICIPAL WATER UTILITY
WATER DIVISION
6300 WEST McGEEOCH AVENUE
WEST ALLIS, WI 53219
(414) 333-5225 (CELL)
(414) 302-8830 (OFFICE)
dschwebke@westalliswi.gov



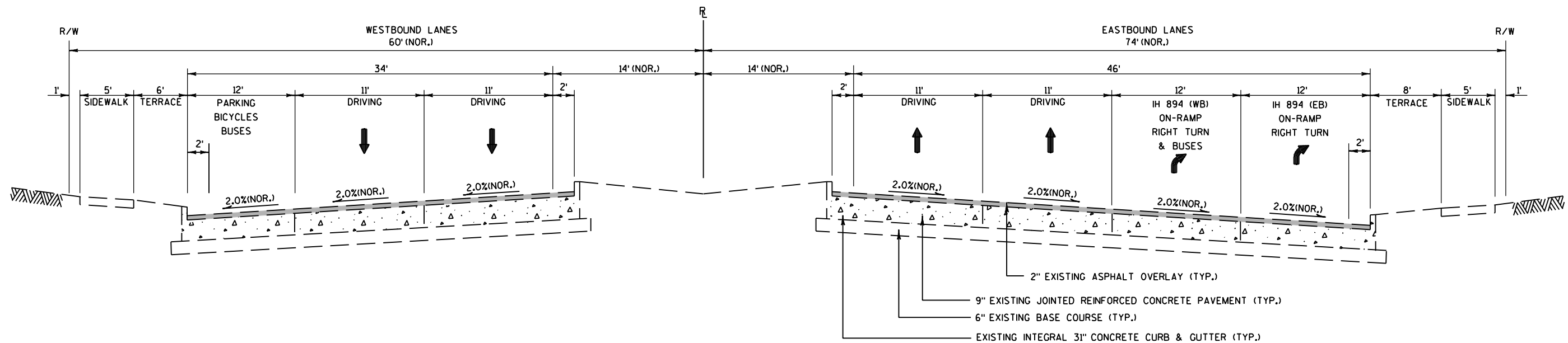
PROJECT NO: 2230-15-70	HWY: STH 59	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET	E
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EXISTING TYPICAL SECTION, GREENFIELD AVENUE

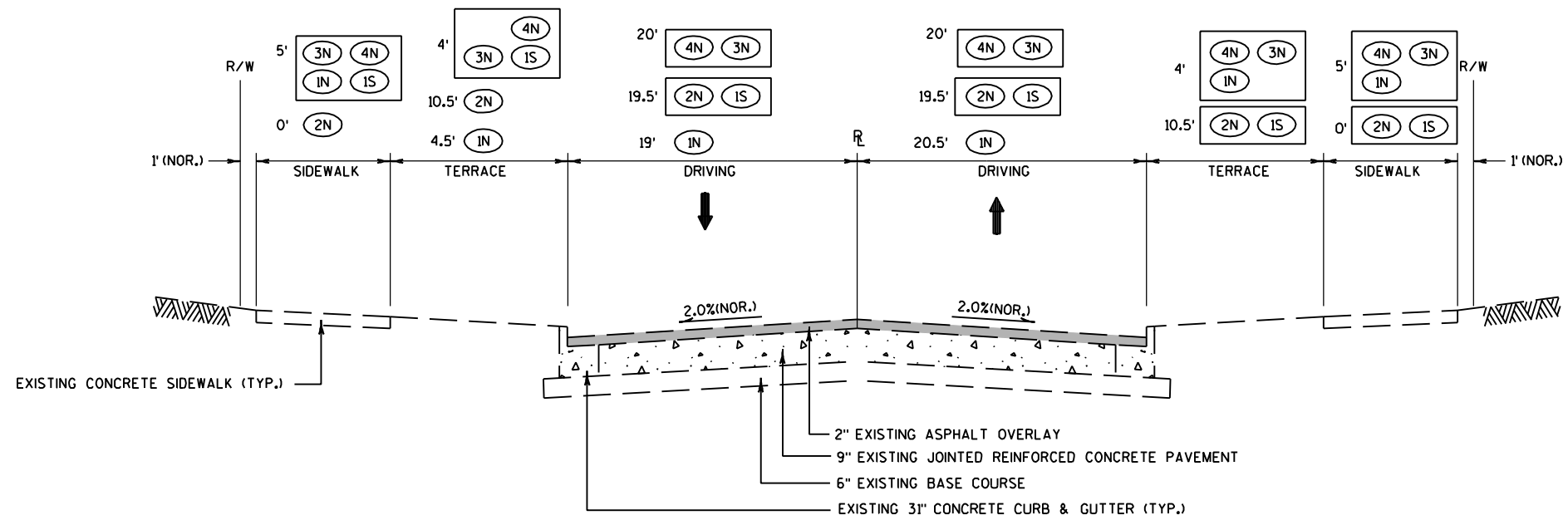
STA. 495+57 - STA. 511+30
(106TH STREET - 101ST STREET)

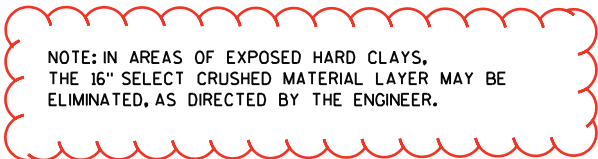
* 2" ASPHALT OVERLAY
STA. 495+57 - STA. 512+00 (EASTBOUND LANES)
STA. 495+57 - STA. 512+00 (WESTBOUND LANES)



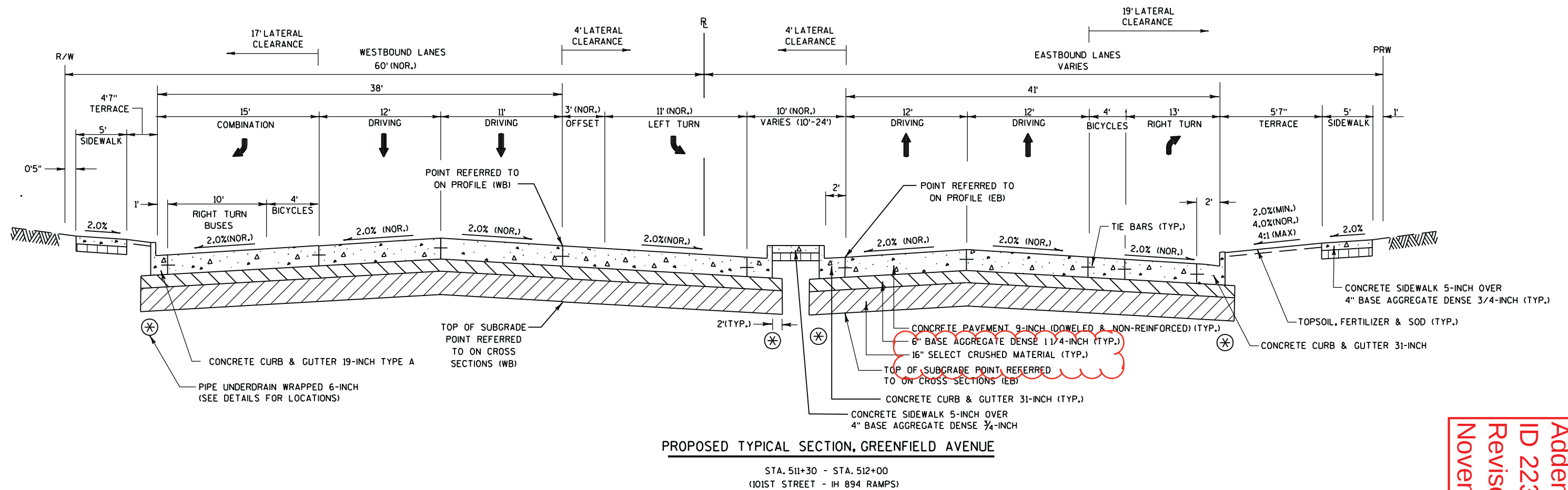
EXISTING TYPICAL SECTION, GREENFIELD AVENUE

STA. 511+30 - STA. 512+00
(101ST STREET - IH 894 RAMP)



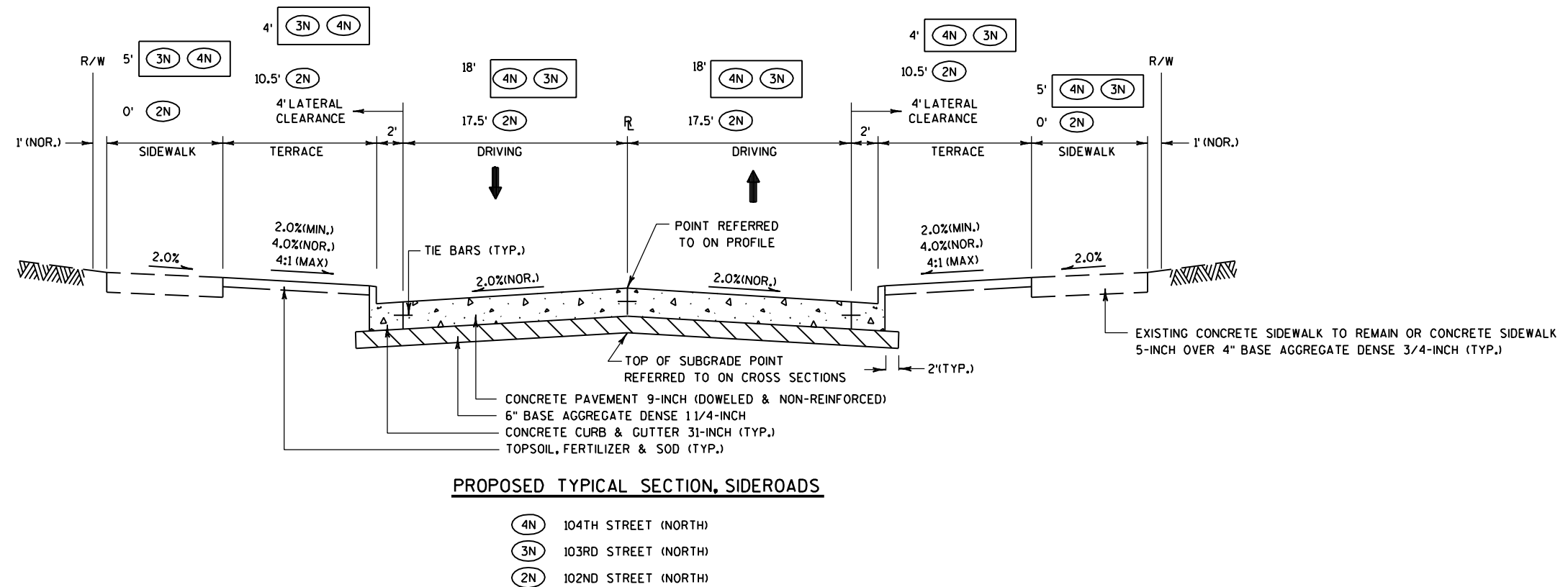


WISDOT/CADDS SHEET 42



NOTE: IN AREAS OF EXPOSED HARD CLAYS,
THE 16" SELECT CRUSHED MATERIAL LAYER MAY BE
ELIMINATED, AS DIRECTED BY THE ENGINEER.

Addendum No. 1
ID 2230-15-70
Revised Sheet 7
November 29, 2012





[illegible]

2

THIS AREA TO BE REPLACED IN KIND
AS NOTED ON PLANS:

CONCRETE = CONCRETE DRIVEWAY 7-INCH OVER 6" BASE AGGREGATE DENSE 1 $\frac{1}{4}$ "
ASPHALT = 3 $\frac{1}{2}$ " ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
OVER 8" BASE AGGREGATE DENSE 1 $\frac{1}{4}$ "
GRAVEL = 6" BASE AGGREGATE DENSE 3 $\frac{3}{4}$ "

SECTION A-A

31"
24"
VARIABLE SLOPE
TIE BAR
2%
* 7"

DRIVEWAY CONSTRUCTION NOTES:

— HEAVY LINE INDICATES 1/2" EXPANSION JOINT MATERIAL.

WHEN MATCHING EXISTING CONCRETE DRIVEWAY INSTALL 1/2" EXPANSION JOINT MATERIAL BETWEEN NEW AND OLD DRIVEWAY.

* UNLESS OTHERWISE NOTED ON PLAN PROVIDE CONTRACTION JOINT FOR CONCRETE DRIVEWAYS WIDER THAN 14 FEET

SAWCUT REQUIRED AT MATCHLINE (ASPHALT OR CONCRETE)

MATCHLINE LOCATION MAY VARY, DEPENDING ON EXISTING DRIVEWAY SLOPE.

VARIABLE
COMMERCIAL: (12' MIN. - 35' MAX.)
NON-COMMERCIAL: (12' MIN. - 24' MAX.)

(1" TYP.)
SLOPE INTERCEPT

5' (NOR.)
5" CONCRETE SIDEWALK

5' (NOR.)
* 7" CONCRETE DRIVEWAY

CONSTRUCTION JOINT

VARIABLE
4'-6"
TERRACE

B

LIMITS OF NEW 7" CONCRETE DRIVEWAY

3'

7"
24"

FLANGE LINE

FLOW LINE

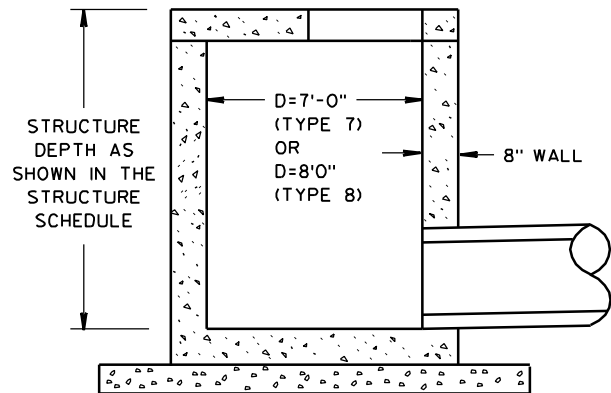
FACE OF CURB

TIE BAR (TYP.) (3' ON CENTER SPACING)

SECTION B-B

7"

CONCRETE DRIVEWAY DETAIL



SEE S.D.D. "MANHOLES TYPE 2 & 3"
FOR ADDITIONAL INFORMATION

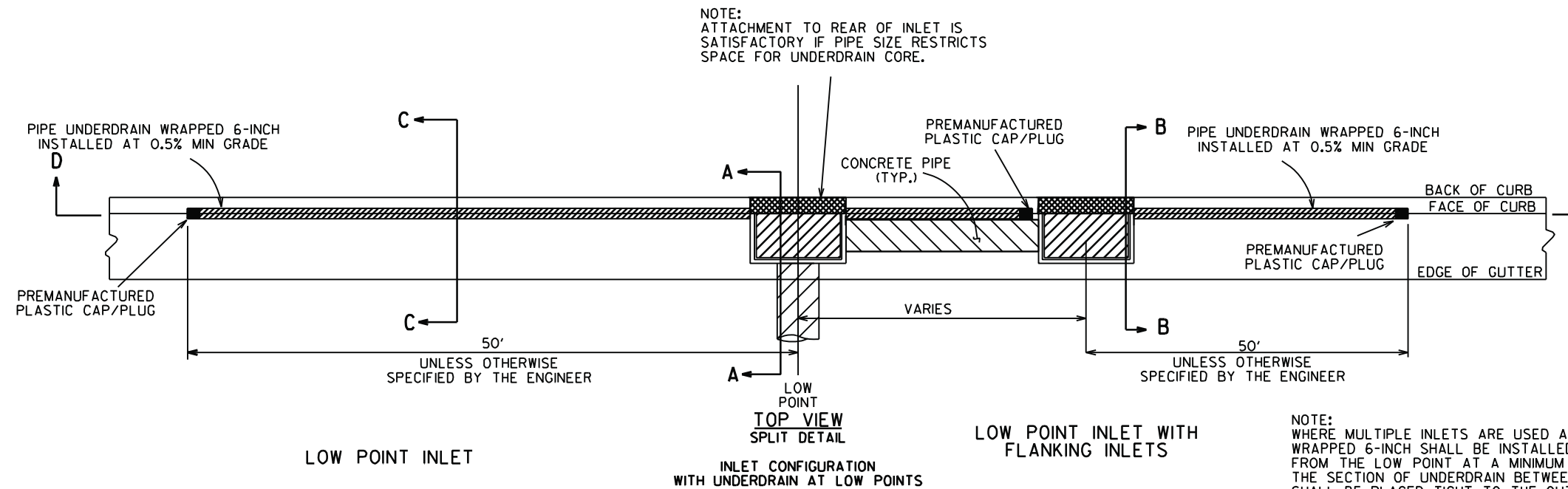
MANHOLES TYPE 7 SPECIAL OR MANHOLES TYPE 8 SPECIAL

INTERIOR DIMENSIONS TO BE
7' X 7' SQUARE (TYPE 7)
8' X 8' SQUARE (TYPE 8)

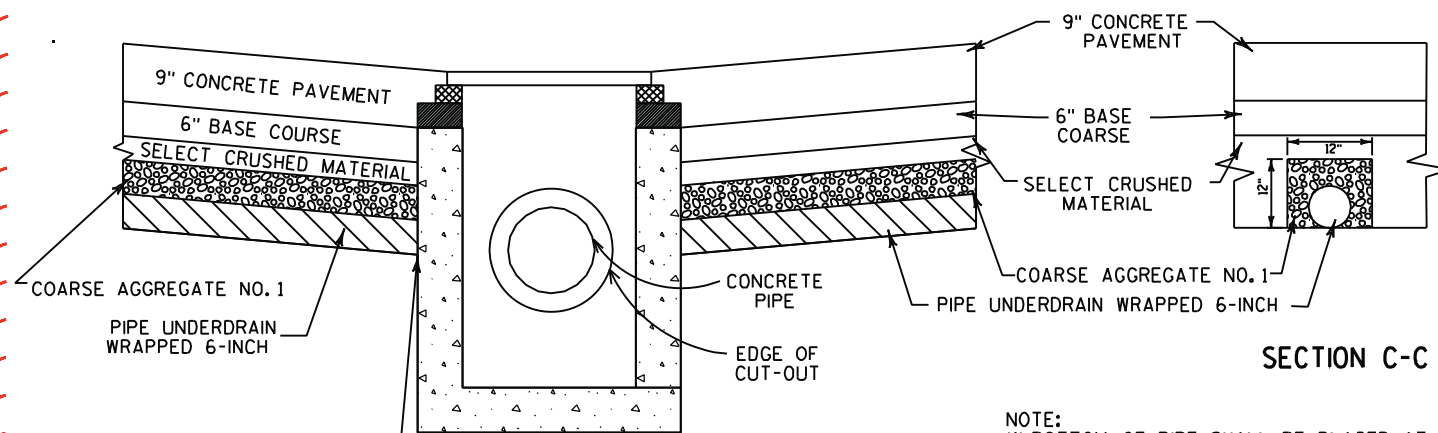
RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-TURF			.25			.27			.28			.30
			.32			.34			.36			.38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 6.19 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 5.57 ACRES



NOTE: WHERE MULTIPLE INLETS ARE USED AT LOW POINTS, PIPE UNDERDRAIN WRAPPED 6-INCH SHALL BE INSTALLED 50 FEET TO EITHER DIRECTION FROM THE LOW POINT AT A MINIMUM POSITIVE GRADE OF 0.5%. THE SECTION OF UNDERDRAIN BETWEEN THE CENTER AND OUTER INLETS SHALL BE PLACED TIGHT TO THE OUTER INLET, CAPPED WITH A PREMANUFACTURED PLASTIC CAP OR PLUG, AND LAID AS SPECIFIED ABOVE TO THE CENTER INLET.

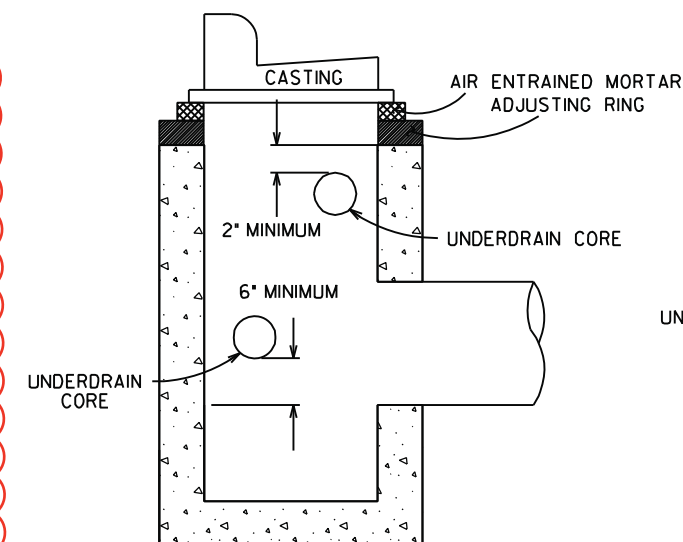


NOTE:
(1) BOTTOM OF PIPE SHALL BE PLACED AT THE BOTTOM OF COARSE AGGREGATE NO. 1 MATERIAL.
(2) BOTTOM OF COARSE AGGREGATE NO. 1 MATERIAL IS NOT NECESSARILY THE BOTTOM OF THE SELECT CRUSHED MATERIAL.

ELEVATION OF PIPE UNDERDRAIN WRAPPED 6-INCH SHALL BE PLACED AT A MINIMUM OF 6" ABOVE THE INVERT OF STORM SEWER PIPE. UNDERDRAIN PIPE INVERT NOT NECESSARILY AT BOTTOM OF SELECT CRUSHED MATERIAL. ELEVATIONS TO BE DETERMINED BY ENGINEER IN FIELD.

TYPICAL INLET CONFIGURATION WITH UNDERDRAIN CORED INTO WALL WITH NO PIPE FOUND AT LOW POINTS WITHOUT FLANKING INLETS

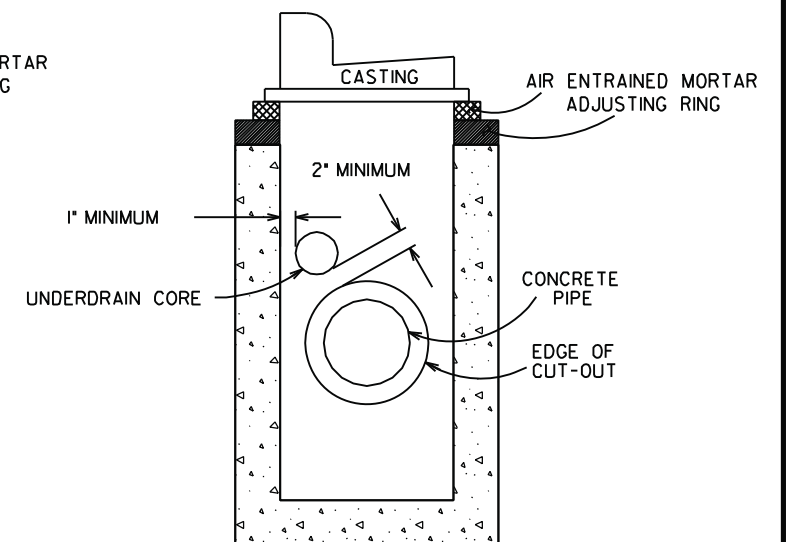
SECTION D-D



NOTE:
(1) BOTTOM OF CORE PLACED A MINIMUM OF 6" ABOVE THE INVERT OF THE CROSS PIPE.
(2) TOP OF CORE HOLES WILL BE A MINIMUM OF 2" BELOW THE TOP OF THE INLET STRUCTURES (BOTTOM OF RINGS)
(3) DRAIN TILES SHALL NOT BE ALLOWED IN THE RING OF THE STRUCTURE OF INLETS OR MANHOLES

CROSS-SECTION VIEW
TYPICAL INLET CONFIGURATION WITH UNDERDRAIN CORED INTO WALL WITH CROSSPIPE ONLY

FOUND AT LOW POINTS WITHOUT FLANKING INLETS



NOTE:
(1) CORE HOLES SHALL PROVIDE FOR A MINIMUM OF 2" OF CONCRETE BETWEEN THE CUTOUT FOR A CONCRETE PIPE AND THE EDGE OF THE CORE HOLE.
(2) CORE HOLES SHALL HAVE 1" CLEARANCE FROM THE INSIDE WALLS OF A STRUCTURE.

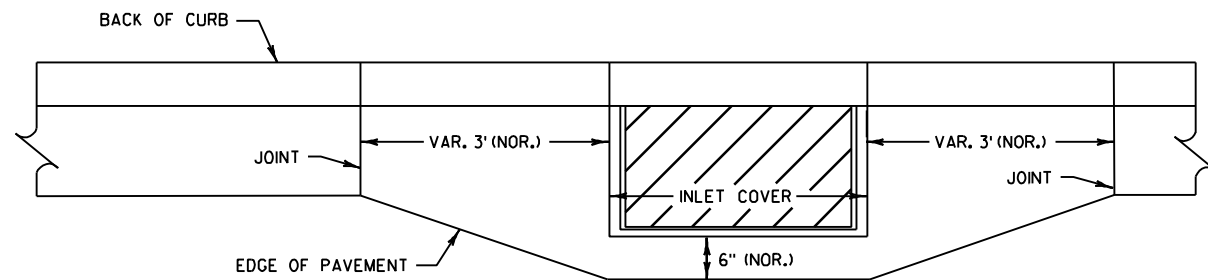
CROSS-SECTION VIEW

TYPICAL INLET IN SUMP CONDITION WITH UNDERDRAIN CORED INTO WALL WITH PIPE FOUND AT FLANKING INLETS NEAR LOWPOINTS

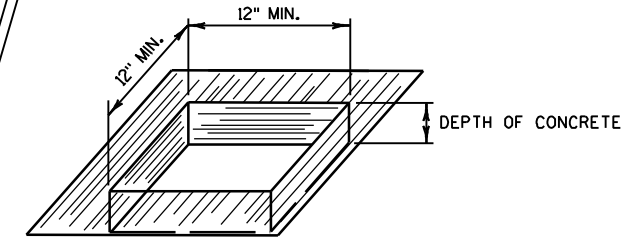
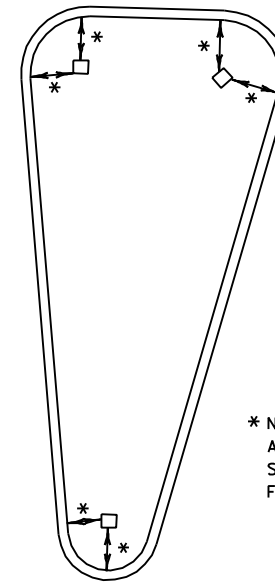
PIPE UNDERDRAIN WRAPPED 6-INCH DETAIL

(SEE STORM SEWER PLANS FOR LOCATIONS)

Addendum No. 1
ID 2230-15-70
Revised Sheet 12
November 29, 2012



DETAIL OF 19-INCH CURB & GUTTER AT INLETS

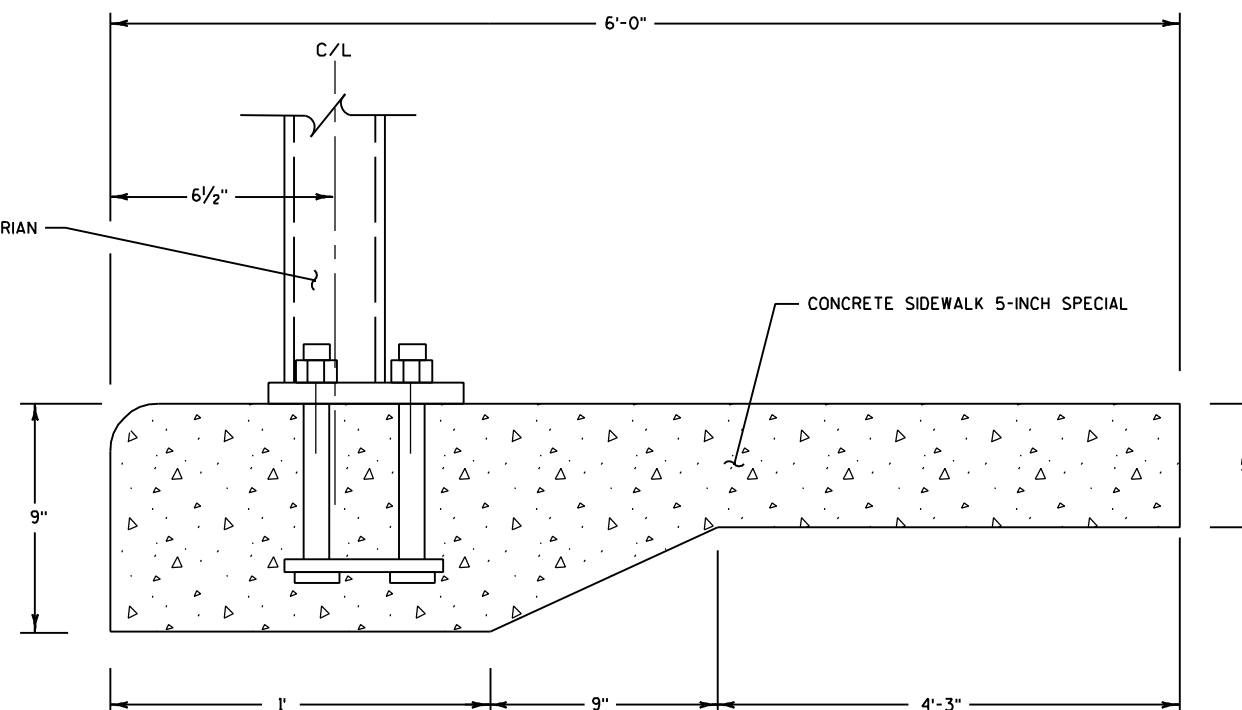


* NOTE:
ALL SQUARED OPENINGS IN CONCRETE FOR SIGN PLACEMENT
SHALL BE DETERMINED BY SIGN SIZE AND NUMBER. A 2' MINIMUM
FROM BACK OF CURB IS REQUIRED.

DETAIL OF OPENINGS IN CONCRETE FOR SIGN PLACEMENT

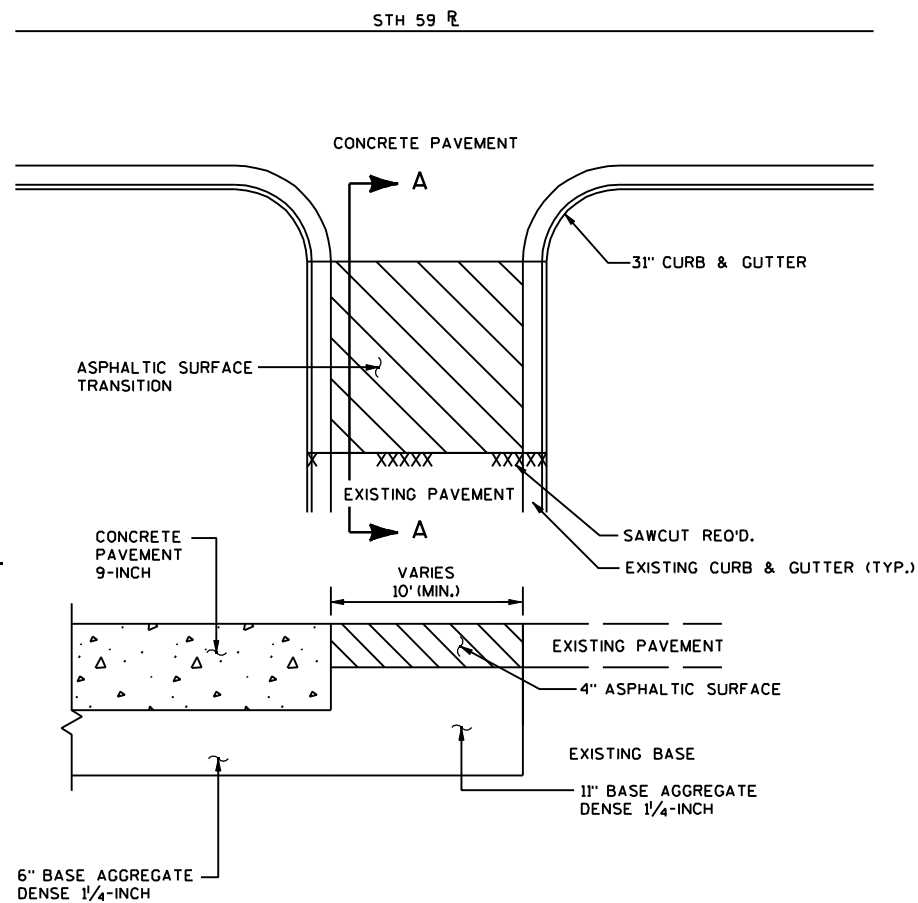
NOTE:

RAILING MOUNTED ON SIDEWALK TO MATCH RAILING
MOUNTED ON RETAINING WALL, SEE STRUCTURE
PLANS FOR RAILING DETAILS



CONCRETE SIDEWALK 5-INCH SPECIAL DETAIL WITH MOUNTED RAILING

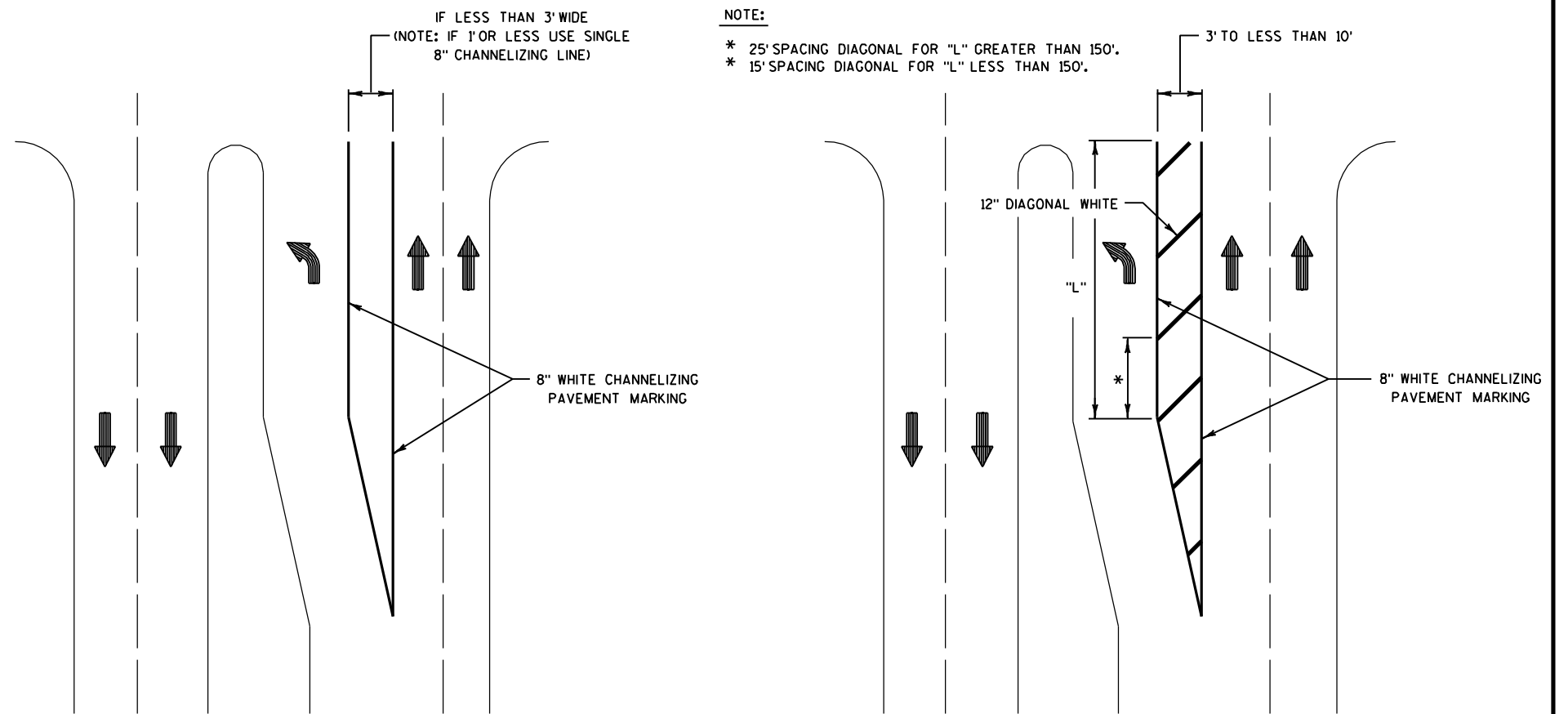
STA. 498+40 LT - STA. 500+67 LT
STA. 499+25 RT - STA. 500+75 RT



SECTION A-A

TRANSITION FOR SIDE ROADS DETAILS

104TH STREET (NORTH)
103RD STREET (NORTH)
102ND STREET (NORTH)



LEFT TURN PAVEMENT MARKING DETAIL

(SEE PAVEMENT MARKING PLAN FOR LOCATIONS)

TEMPORARY LANDING ZONE
ASPHALTIC SURFACE TEMPORARY,
2-INCH

BARRICADE TYPE III (TYP)

10' MIN

8' MIN

WORK ZONE

WIDTH VARIES

SEE NOTE (4)

EXISTING CURB & GUTTER

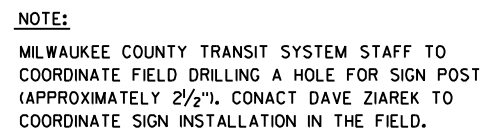
EXISTING SIDEWALK

FENCE SAFETY (OPTIONAL)

TEMPORARY BUILT-UP CURB
RAMP 8.33% MAX SLOPE

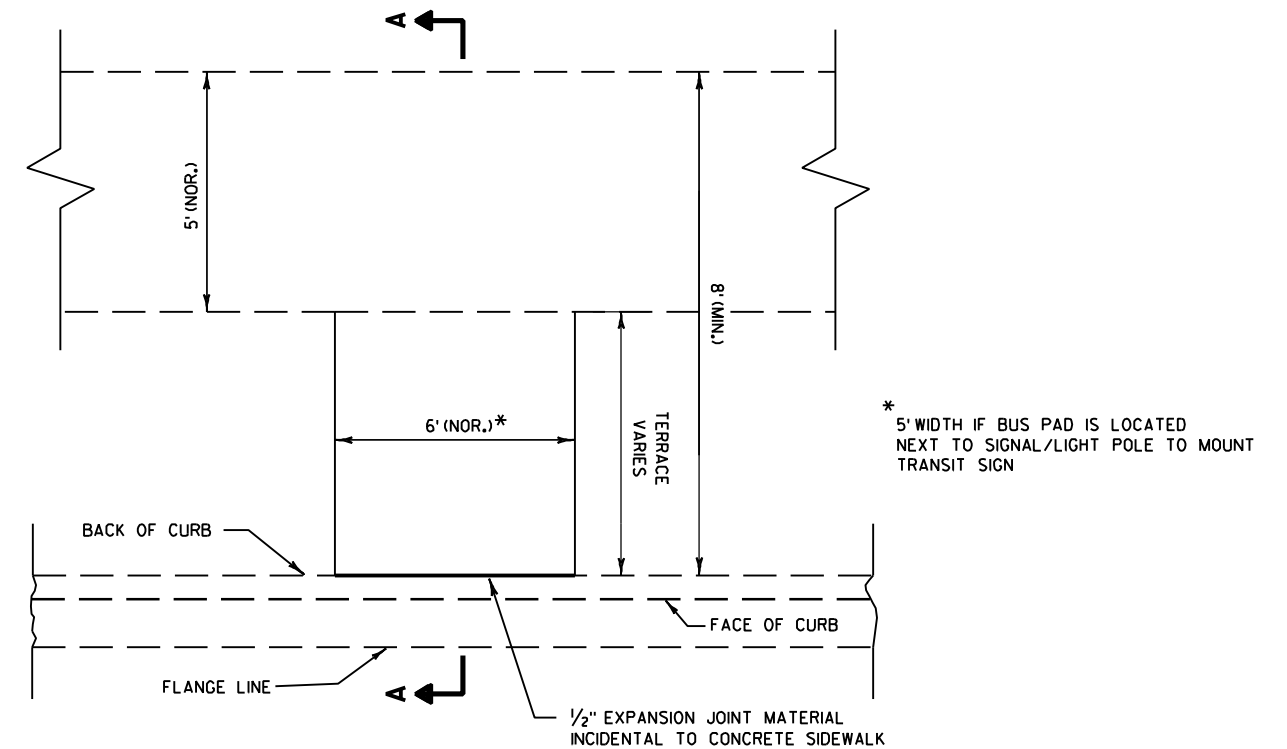
TEMPORARY SIDEWALK CONNECTION
ASPHALTIC SURFACE TEMPORARY, 2-INCH
2.0% MAX CROSS SLOPE

- 1) MAINTAIN ACCESS TO BUS STOPS.
- 2) GAP SIDEWALK WORK TO MAINTAIN PEDESTRIAN ACCESS WHERE APPLICABLE.
- 3) ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.
- 4) 5' WIDE MIN WITH SAFETY FENCE, 10' WIDE MIN WITHOUT SAFETY FENCE.

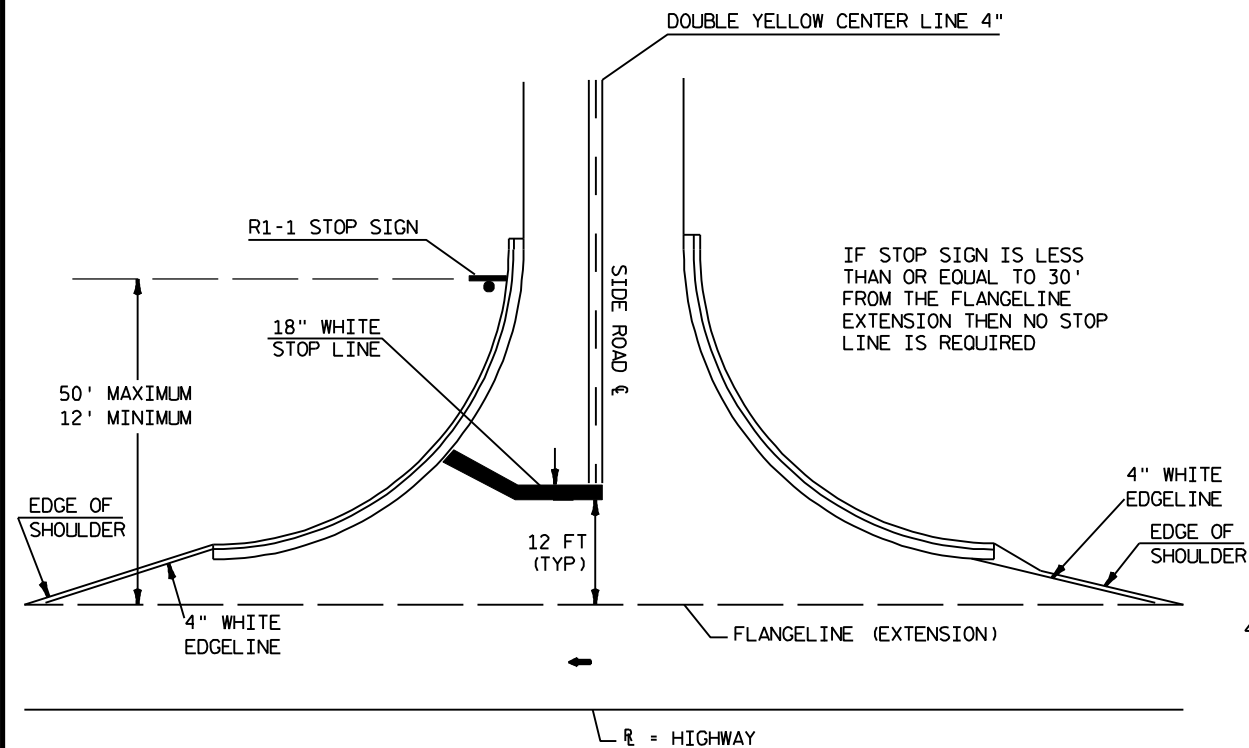


1) MAXIMUM SLOPE OF BUS STOP SHALL BE 2.0%.

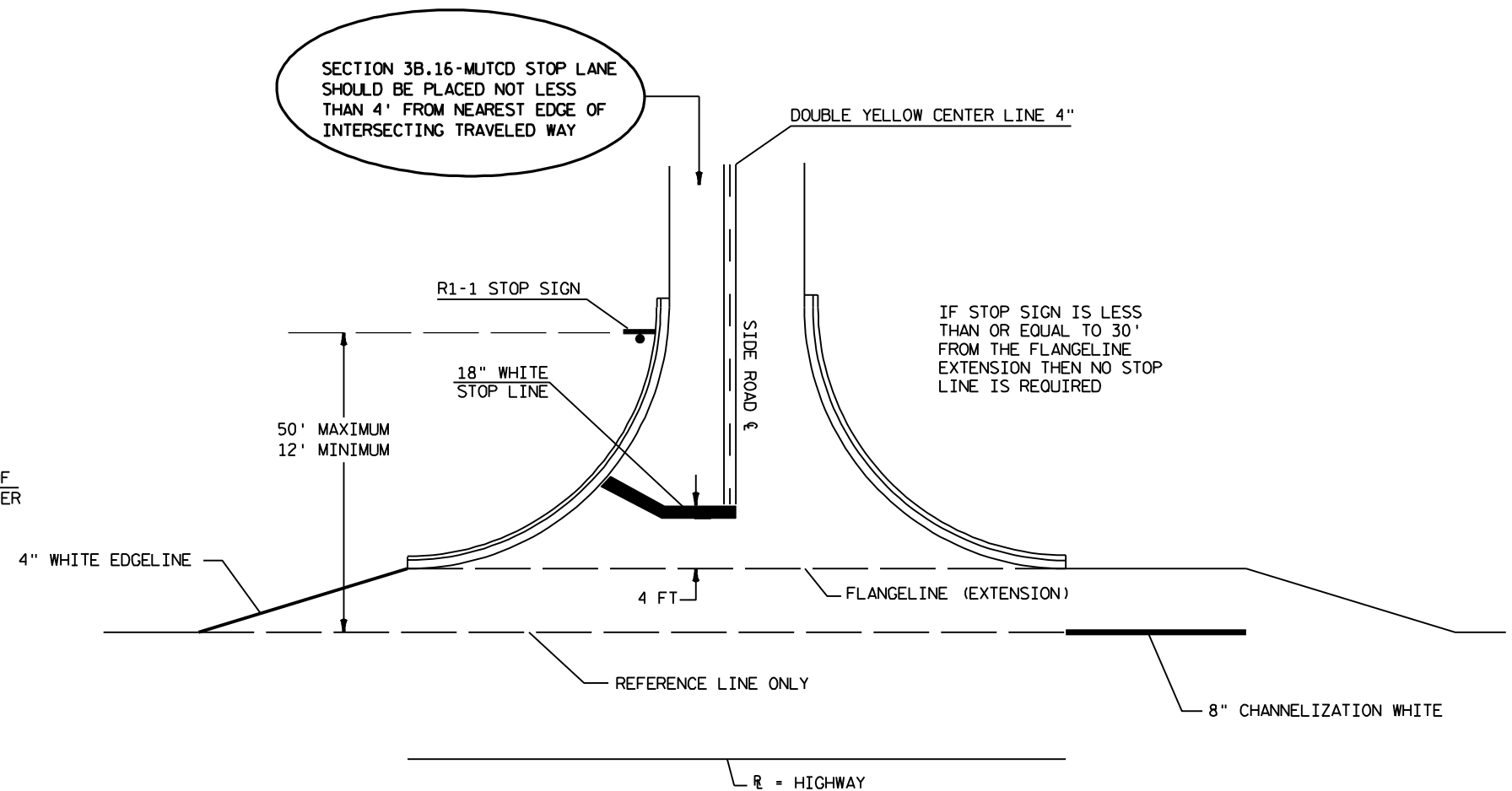
2) NON-SLIP SURFACE REQUIRED (BROOM FINISH).



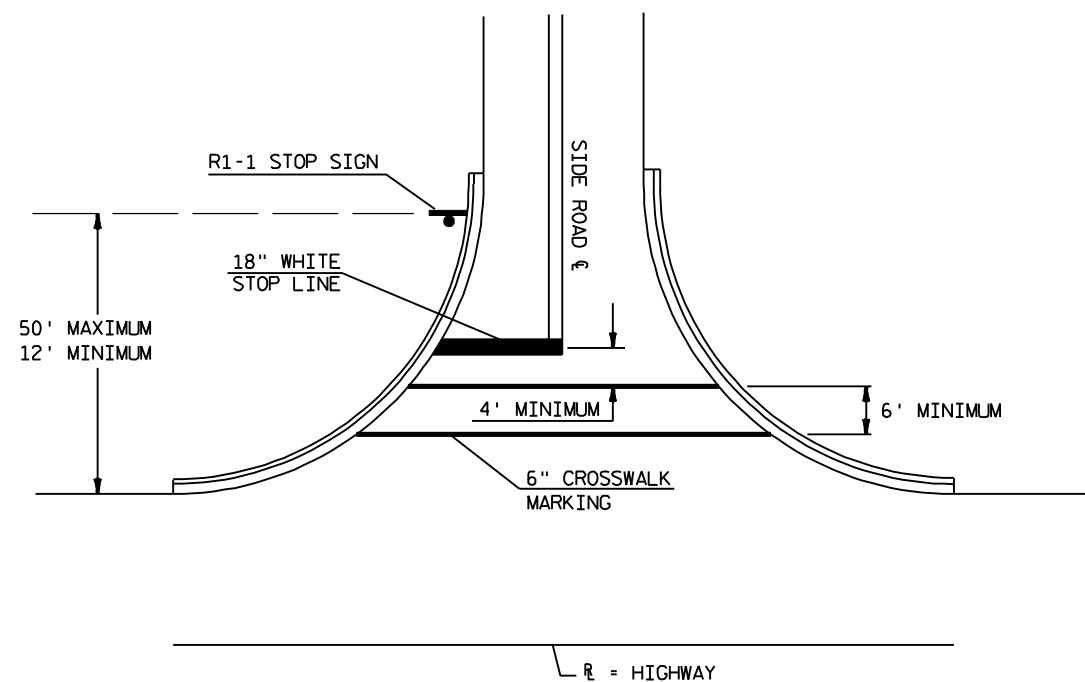
MILWAUKEE COUNTY TRANSIT SYSTEM STAFF TO
COORDINATE FIELD DRILLING A HOLE FOR SIGN POST
(APPROXIMATELY 2 1/2"). CONACT DAVE ZIAREK TO
COORDINATE SIGN INSTALLATION IN THE FIELD.



TYPICAL PAVEMENT MARKING FOR SIDEROADS



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



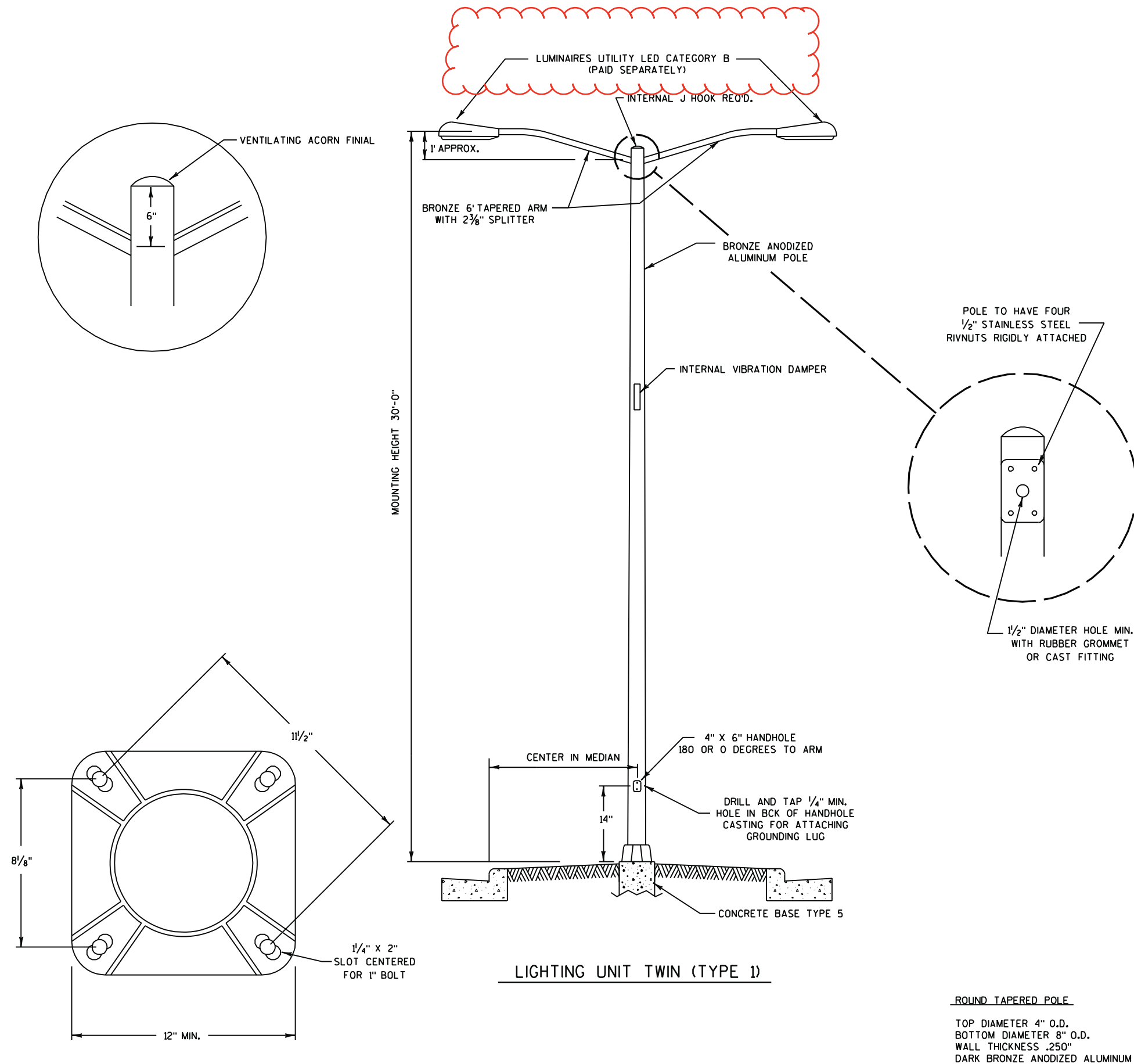
TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

NOTES:

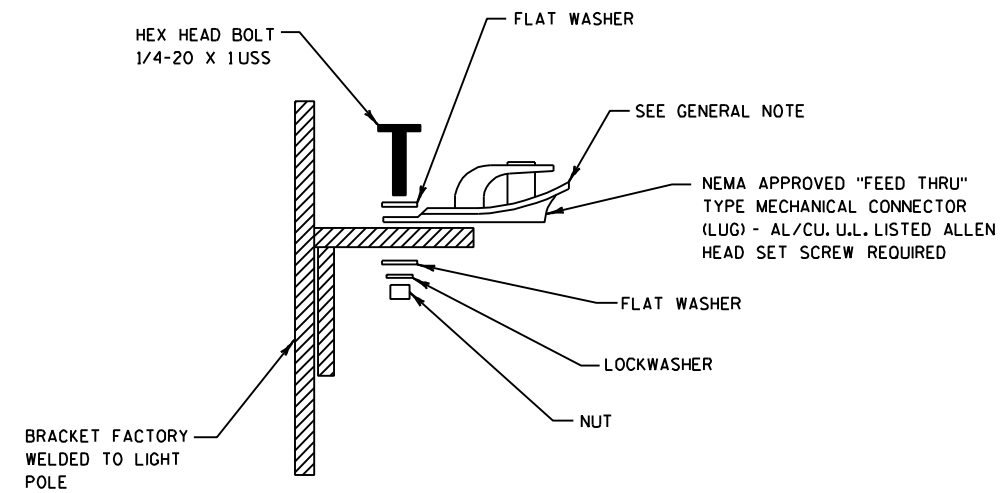
18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

STOP LINES REQUIRED WHERE:

- CROSSWALK MARKINGS EXIST OR BEING PROVIDED
- LARGE RADII
- OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT.



Addendum No. 1
ID 2230-15-70
Revised Sheet 17
November 29, 2012



HANDHOLE GROUNDED LUG

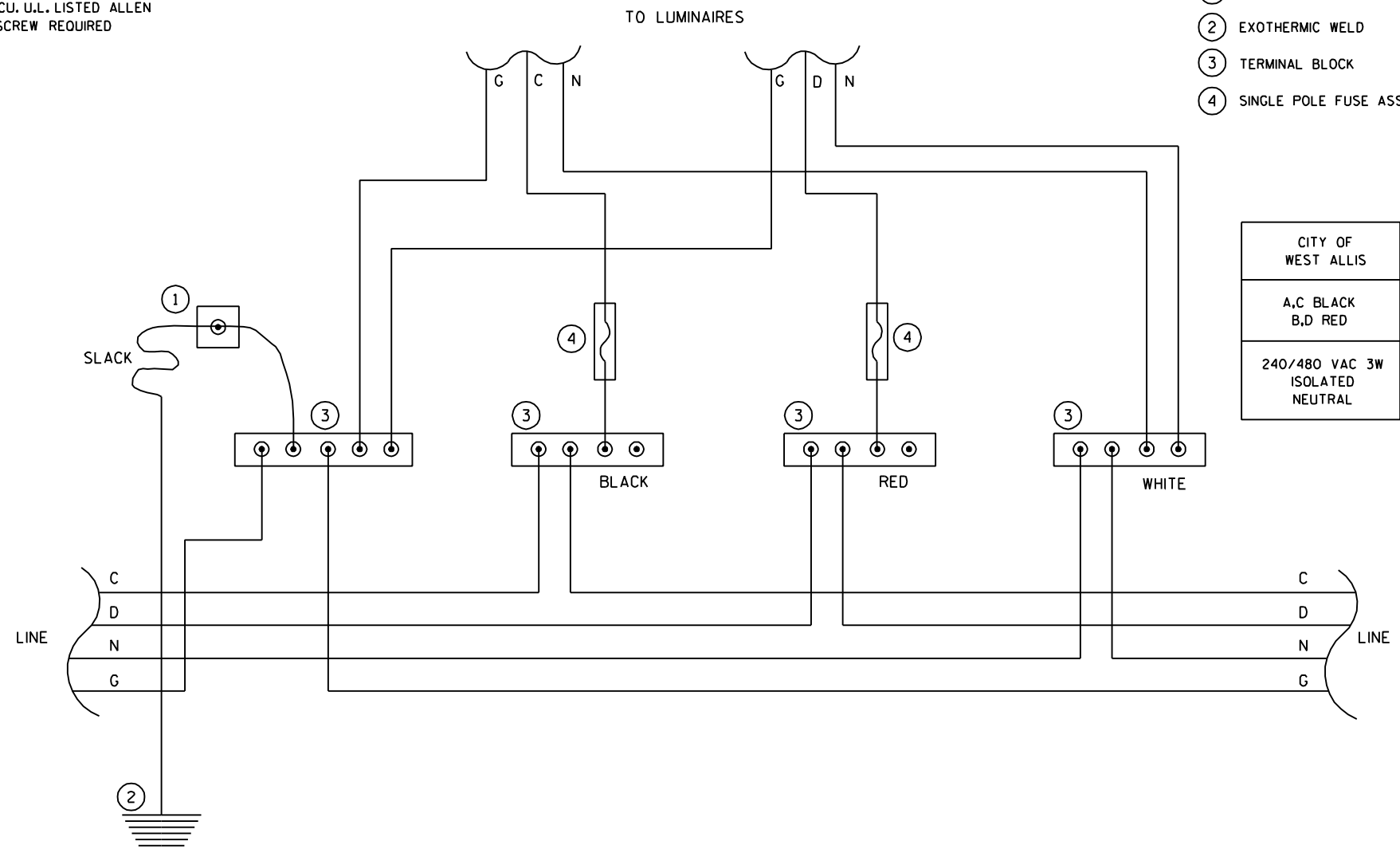
(NUT, BOLT, WASHERS, AND LOCK WASHERS
SHALL BE STAINLESS STEEL)

GENERAL NOTES:

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

THE GROUNDED ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITH OUT
SPICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING
LUG TO THE CONNECTOR.

REFER TO S.D.D. "NON-FREEWAY LIGHTING UNIT POLE WIRING" FOR ADDITIONAL
INFORMATION NOT SHOWN ON THIS SHEET.



"BLACK" POLE SHOWN
(EVERY OTHER POLE)

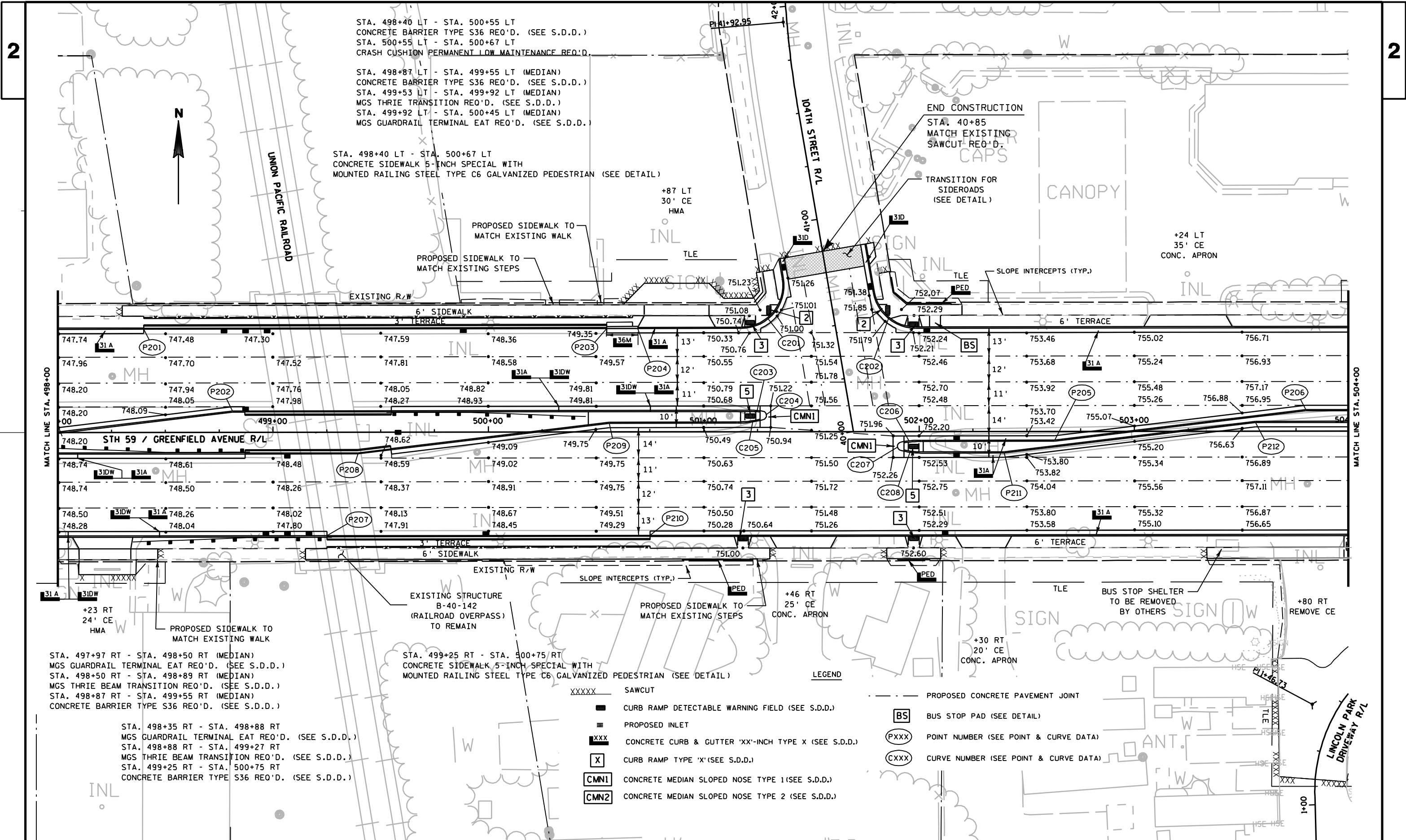
"RED" POLE SIMILAR
(EVERY OTHER POLE)

- ① POLE LUG
- ② EXOTHERMIC WELD
- ③ TERMINAL BLOCK
- ④ SINGLE POLE FUSE ASSEMBLY

CITY OF WEST ALLIS
A,C BLACK B,D RED
240/480 VAC 3W ISOLATED NEUTRAL

STREET LIGHT HANDHOLE WIRING

CITY OF WEST ALLIS
240/480 VAC ISOLATED NEUTRAL



STA. 498+40 LT - STA. 500+55 LT
CONCRETE BARRIER TYPE S36 REQ'D. (SEE S.D.D.)
STA. 500+55 LT - STA. 500+67 LT
CRASH CUSHION PERMANENT LOW MAINTENANCE REQ'D.

STA. 498+87 LT - STA. 499+55 LT (MEDIAN)
CONCRETE BARRIER TYPE S36 REQ'D. (SEE S.D.D.)
STA. 499+53 LT - STA. 499+92 LT (MEDIAN)
MGS THRIE TRANSITION REQ'D. (SEE S.D.D.)
STA. 499+92 LT - STA. 500+45 LT (MEDIAN)
MGS GUARDRAIL TERMINAL EAT REQ'D. (SEE S.D.D.)

STA. 498+40 LT - STA. 500+67 LT
CONCRETE SIDEWALK 5-INCH SPECIAL WITH
MOUNTED RAILING STEEL TYPE C6 GALVANIZED PEDESTRIAN (SEE DETAIL)

END CONSTRUCTION
STA. 40+85
MATCH EXISTING
SAWCUT REQ'D.

TRANSITION FOR
SIDEROADS
(SEE DETAIL)

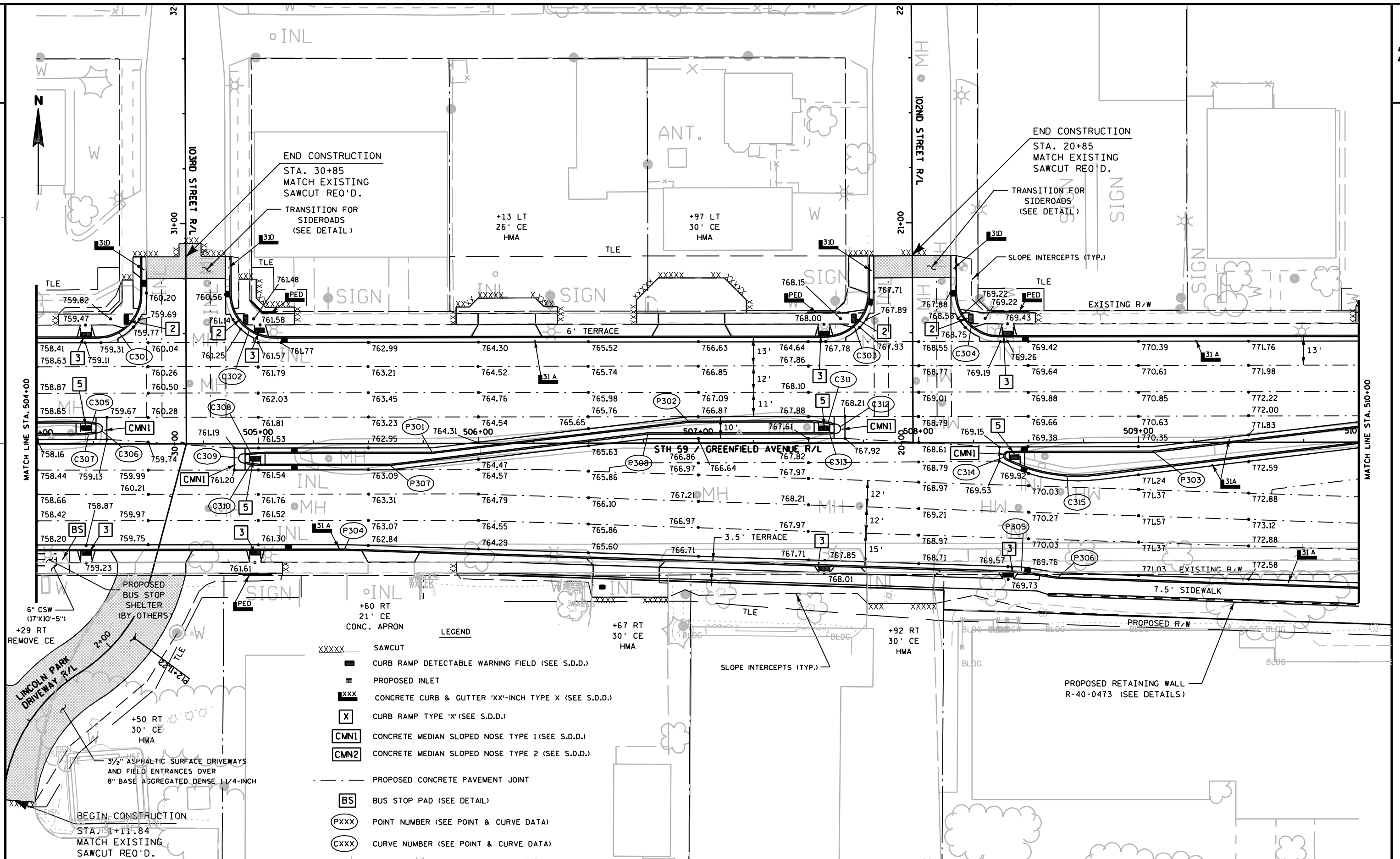
+24 LT
35' CE
CONC. APRON

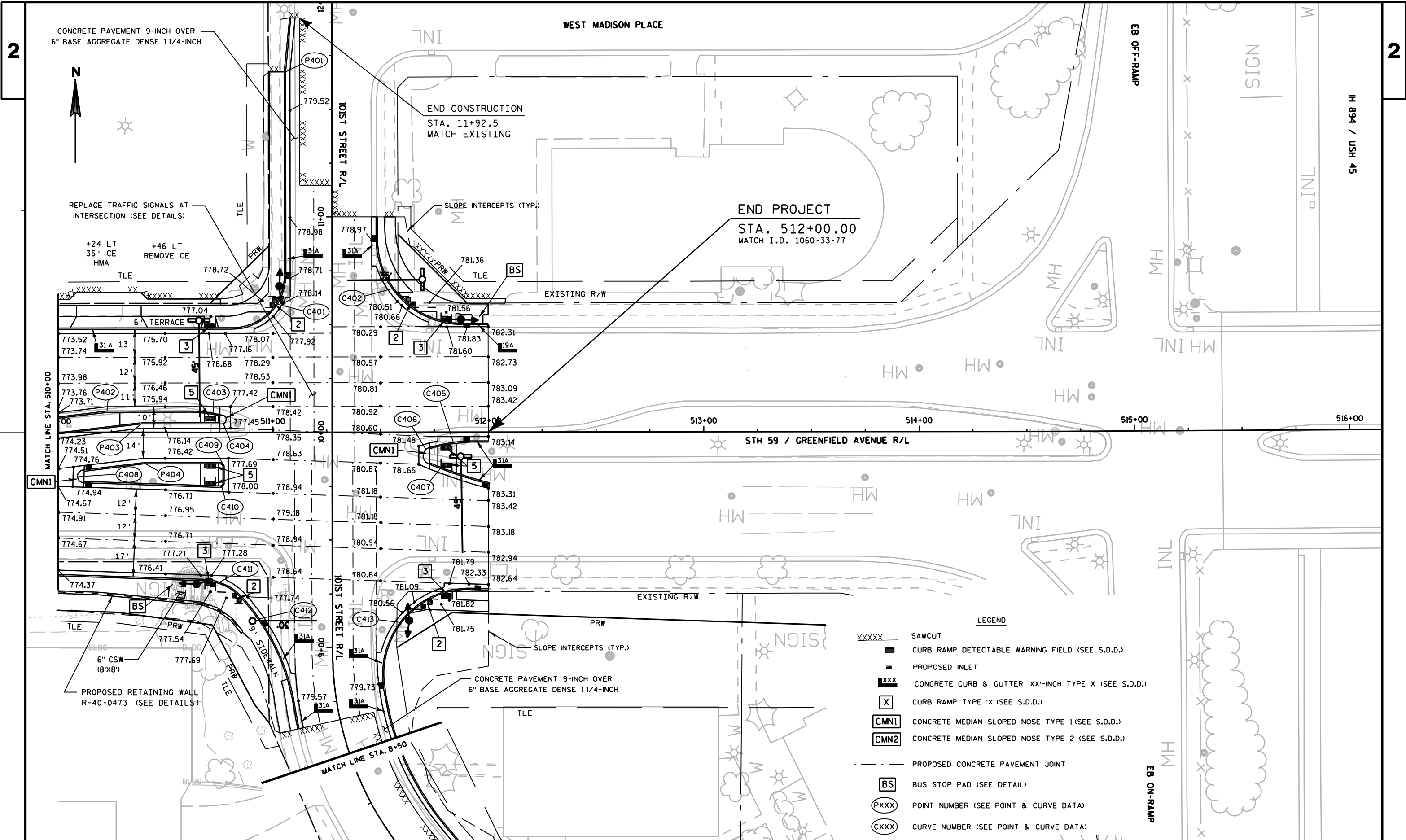
STA. 497+97 RT - STA. 498+50 RT (MEDIAN)
MGS GUARDRAIL TERMINAL EAT REQ'D. (SEE S.D.D.)
STA. 498+50 RT - STA. 498+89 RT (MEDIAN)
MGS THRIE BEAM TRANSITION REQ'D. (SEE S.D.D.)
STA. 498+87 RT - STA. 499+55 RT (MEDIAN)
CONCRETE BARRIER TYPE S36 REQ'D. (SEE S.D.D.)

STA. 499+25 RT - STA. 500+75 RT
CONCRETE SIDEWALK 5-INCH SPECIAL WITH
MOUNTED RAILING STEEL TYPE C6 GALVANIZED PEDESTRIAN (SEE DETAIL)

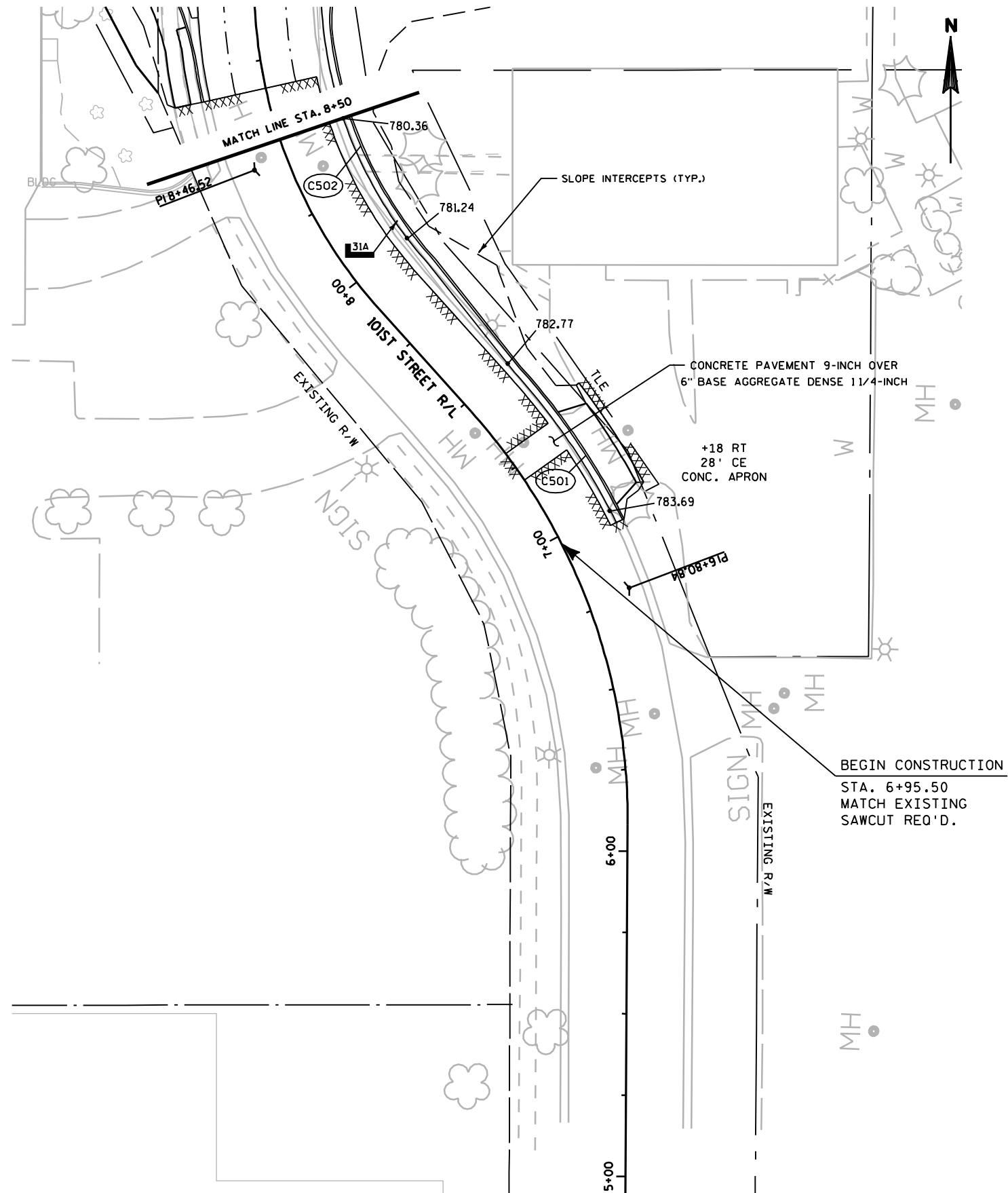
LEGEND

- XXXXX SAWCUT
- CURB RAMP DETECTABLE WARNING FIELD (SEE S.D.D.)
- PROPOSED INLET
- CONCRETE CURB & GUTTER 'XX'-INCH TYPE X (SEE S.D.D.)
- CURB RAMP TYPE 'X' (SEE S.D.D.)
- CONCRETE MEDIAN SLOPED NOSE TYPE 1 (SEE S.D.D.)
- CONCRETE MEDIAN SLOPED NOSE TYPE 2 (SEE S.D.D.)
- PROPOSED CONCRETE PAVEMENT JOINT
- BS BUS STOP PAD (SEE DETAIL)
- PXXX POINT NUMBER (SEE POINT & CURVE DATA)
- CXXX CURVE NUMBER (SEE POINT & CURVE DATA)





LEGEND	
XXXXX	SAWCUT
■	CURB RAMP DETECTABLE WARNING FIELD (SEE S.D.D.)
■	PROPOSED INLET
XXX	CONCRETE CURB & GUTTER 'XX'-INCH TYPE X (SEE S.D.D.)
X	CURB RAMP TYPE 'X'(SEE S.D.D.)
CMN1	CONCRETE MEDIAN SLOPED NOSE TYPE 1(SEE S.D.D.)
CMN2	CONCRETE MEDIAN SLOPED NOSE TYPE 2 (SEE S.D.D.)
---	PROPOSED CONCRETE PAVEMENT JOINT
BS	BUS STOP PAD (SEE DETAIL)
PXXX	POINT NUMBER (SEE POINT & CURVE DATA)
CXXX	CURVE NUMBER (SEE POINT & CURVE DATA)



POINT	STATION	OFFSET	COMMENT
C101 (PC)	495+68.06	5.10	-
C101 (CC)	495+73.27	4.28	R=50.00'
C101 (PT)	495+78.52	4.00	-
C102 (PC)	495+68.06	5.10	-
C102 (CC)	495+66.50	7.09	R=2.00'
C102 (PT)	495+68.14	9.03	-
C103 (PC)	495+68.14	9.03	-
C103 (CC)	495+73.50	9.76	R=60.00'
C103 (PT)	495+78.91	10.00	-
C104 (PC)	494+74.11	-10.00	-
C104 (CC)	494+80.04	-9.56	R=40.00'
C104 (PT)	494+85.83	-8.25	-
C105 (PC)	494+85.83	-8.25	-
C105 (CC)	494+87.23	-6.17	R=2.00'
C105 (PT)	494+85.51	-4.35	-
C106 (PC)	494+85.51	-4.35	-
C106 (CC)	494+82.86	-4.09	R=40.00'
C106 (PT)	494+80.21	-4.00	-
P101	497+64.50	4.00	BEGIN 8.33:1 TAPER
P102	494+30.83	-4.00	END 8.33:1 TAPER
P103	494+45.44	-10.00	END 8.33:1 TAPER
C201 (PC)	501+17.38	-48.00	-
C201 (CC)	501+32.66	-55.10	R=20.00'
C201 (PT)	501+37.10	-71.36	-
C202 (PC)	501+78.82	-64.64	-
C202 (CC)	501+85.63	-52.72	R=20.00'
C202 (PT)	501+98.53	-48.00	-
C203 (PC)	501+22.83	-10.00	-
C203 (CC)	501+25.18	-9.89	R=25.00'
C203 (PT)	501+27.51	-9.56	-
C204 (PC)	501+27.51	-9.56	-
C204 (CC)	501+29.14	-7.68	R=2.00'
C204 (PT)	501+27.68	-5.67	-
C205 (PC)	501+27.68	-5.67	-
C205 (CC)	501+21.67	-4.42	R=45.00'
C205 (PT)	501+15.54	-4.00	-
C206 (PC)	502+01.12	4.00	-
C206 (CC)	501+96.35	4.21	R=55.00'
C206 (PT)	501+91.61	4.83	-
C207 (PC)	501+91.61	4.83	-
C207 (CC)	501+89.96	6.70	R=2.00'
C207 (PT)	501+91.42	8.73	-
C208 (PC)	501+91.42	8.73	-
C208 (CC)	501+96.06	9.68	R=35.00'
C208 (PT)	502+00.78	10.00	-
P201	498+40.00	-48.00	BEGIN CONCRETE BARRIER
P202	498+81.16	-10.00	END 8.33:1 TAPER
P203	500+55.00	-48.00	END BARRIER/BEGIN 36" C&G
P204	500+69.49	-48.00	END 36" C&G/BEGIN 31" C&G
P205	502+62.96	4.00	BEGIN 8.33:1 TAPER
P206	503+79.62	-10.00	END 8.33:1 TAPER
P207	499+25.00	48.00	BEGIN CONCRETE BARRIER
P208	499+39.48	10.00	BEGIN 8.33:1 TAPER
P209	500+56.14	-4.00	END 8.33:1 TAPER
P210	500+75.00	48.00	END CONCRETE BARRIER
P211	502+39.57	10.00	BEGIN 8.33:1 TAPER
P212	503+56.23	-4.00	END 8.33:1 TAPER
C301 (PC)	504+27.19	-48.00	-
C301 (CC)	504+41.35	-53.87	R=20.00'
C301 (PT)	504+47.19	-68.03	-

NOTE: CURVE & POINT NUMBERS ARE TO THE FACE OF CURB

POINT	STATION	OFFSET	COMMENT
C302 (PC)	504+87.19	-67.97	-
C302 (CC)	504+93.06	-53.85	R=20.00'
C302 (PT)	505+07.19	-48.00	-
C303 (PC)	507+57.82	-48.00	-
C303 (CC)	507+71.98	-53.87	R=20.00'
C303 (PT)	507+77.82	-68.05	-
C304 (PC)	508+16.82	-67.95	-
C304 (CC)	508+22.70	-53.84	R=20.00'
C304 (PT)	508+36.82	-48.00	-
C305 (PC)	504+20.71	-9.42	-
C305 (CC)	504+23.49	-9.26	R=25.00'
C305 (PT)	504+27.80	-8.97	-
C306 (PC)	504+27.80	-8.97	-
C306 (CC)	504+29.23	-6.98	R=2.00'
C306 (PT)	504+27.65	-5.10	-
C307 (PC)	504+27.65	-5.10	-
C307 (CC)	504+22.46	-4.28	R=50.00'
C307 (PT)	504+17.22	-4.00	-
C308 (PC)	505+03.35	4.00	-
C308 (CC)	504+98.05	4.18	R=80.00'
C308 (PT)	504+92.77	4.70	-
C309 (PC)	504+92.77	4.70	-
C309 (CC)	504+91.04	6.53	R=2.00'
C309 (PT)	504+92.48	8.60	-
C310 (PC)	504+92.48	8.60	-
C310 (CC)	504+97.32	9.65	R=35.00'
C310 (PT)	505+02.26	10.00	-
C311 (PC)	507+51.58	-10.00	-
C311 (CC)	507+57.45	-9.57	R=40.00'
C311 (PT)	507+63.19	-8.28	-
C312 (PC)	507+63.19	-8.28	-
C312 (CC)	507+64.61	-6.21	R=2.00'
C312 (PT)	507+62.89	-4.38	-
C313 (PC)	507+62.89	-4.38	-
C313 (CC)	507+60.14	-4.10	R=40.00'
C313 (PT)	507+57.38	-4.00	-
C314 (PC)	508+40.70	4.00	-
C314 (CC)	508+38.75	5.54	R=2.00'
C314 (PT)	508+39.81	7.79	-
C315 (PC)	508+39.81	7.79	-
C315 (CC)	508+59.91	14.37	R=73.00'
C315 (PT)	508+81.05	14.93	-
P301	505+79.04	4.00	BEGIN 8.33:1 TAPER
P302	506+95.70	-10.00	END 8.33:1 TAPER
P303	509+06.20	4.00	BEGIN 8.33:1 TAPER
P304	505+39.11	48.00	BEGIN 29.00:1 TAPER
P305	508+46.62	58.60	END 29.00:1/BEGIN 6.50:1 TAPER
P306	508+63.29	61.17	END 6.50:1 TAPER
P307	505+59.95	10.00	BEGIN 8.33:1 TAPER
P308	506+76.61	-4.00	END 8.33:1 TAPER
C401 (PC)	510+81.03	-48.00	-
C401 (CC)	510+55.32	-55.32	R=25.00'
C401 (PT)	511+06.03	-73.00	-
C402 (PC)	511+48.03	-90.00	-
C402 (CC)	511+59.75	-61.72	R=40.00'
C402 (PT)	511+88.03	-50.00	-
C403 (PC)	510+60.53	-10.00	-
C403 (CC)	510+68.71	-9.48	R=65.00'
C403 (PT)	510+76.77	-7.94	-
C404 (PC)	510+76.77	-7.94	-

NOTE: CURVE & POINT NUMBERS ARE TO THE FACE OF CURB

POINT	STATION	OFFSET	COMMENT
C404 (CC)	510+78.26	-5.75	R=2.00'
C404 (PT)	510+76.27	-4.00	-
C405 (PC)	511+94.60	4.00	-
C405 (CC)	511+83.48	4.78	R=80.00'
C405 (PT)	511+72.57	7.09	-
C406 (PC)	511+72.57	7.09	-
C406 (CC)	511+69.68	10.70	R=4.00'
C406 (PT)	511+72.12	14.63	-
C407 (PC)	511+72.12	14.63	-
C407 (CC)	511+86.13	19.91	R=200.00'
C407 (PT)	512+00.00	24.19	-
C408 (PC)	510+12.31	17.28	-
C408 (CC)	510+09.21	20.17	R=3.00'
C408 (PT)	510+12.10	23.27	-
C409 (PC)	510+75.33	14.00	-
C409 (CC)	510+75.75	14.59	R=2.00'
C409 (PT)	510+77.33	16.00	-
C410 (PC)	510+77.33	23.45	-
C410 (CC)	510+76.72	24.89	R=2.00'
C410 (PT)	510+75.26	25.45	-
C411 (PC)	510+67.87	68.22	-
C411 (CC)	510+77.55	70.54	R=25.00'
C411 (PT)	510+85.56	76.45	-
C412 (PC)	510+85.56	76.45	-
C412 (CC)	511+01.57	100.35	R=100.00'
C412 (PT)	511+10.11	127.82	-
C413 (PC)	511+51.07	117.59	-
C413 (CC)	511+61.16	85.55	R=40.00'
C413 (PT)	511+92.12	72.50	-
P401	11+67.50	-21.50	BEGIN 10.00:1 TAPER
P402	510+22.86	-10.00	END 8.33:1 TAPER
P403	510+38.72	-4.00	END 8.33:1 TAPER
P404	510+39.80	14.00	END 8.33:1 TAPER
C501 (PC)	6+95.93	20.00	-
C501 (CC)	7+21.40	20.00	R=208.00'
C501 (PT)	7+46.88	20.00	-
C502 (PC)	7+89.18	22.50	-
C502 (CC)	8+34.32	22.50	R=127.50'
C502 (PT)	8+79.47	22.50	-

NOTE: CURVE & POINT NUMBERS ARE TO THE FACE OF CURB

3

REMOVING PAVEMENT					204.0100
STATION	TO	STATION	LOCATION	(SY)	
495+58	-	512+00	STH 59	16,800	
40+00	-	40+85	104TH STREET	120	
30+00	-	33+52	103RD STREET	430	
20+00	-	20+85	102ND STREET	120	
6+96	-	11+92	101ST STREET	530	
TOTAL					18,000

REMOVING MASONRY					204.0185
STATION	TO	STATION	LOCATION	(CY)	
498+65	-	499+82	STH 59	400	
TOTAL					400

REMOVING STORM SEWER					204.0245
STATION	TO	STATION	LOCATION	12-INCH (LF)	
495+58	-	512+00	STH 59	400	
TOTAL					400

REMOVING CURB AND GUTTER					204.0150
STATION	TO	STATION	LOCATION	(LF)	
494+20	-	498+00	STH 59	400	
TOTAL					400

REMOVING CONCRETE SIDEWALK					204.0155	690.0250 (A)
STATION	TO	STATION	LOCATION	(SY)	SAWING CONCRETE (LF)	
495+58	-	512+00	STH 59	1800	150	
40+00	-	40+85	104TH STREET	-	-	
30+00	-	33+52	103RD STREET	20	20	
20+00	-	20+85	102ND STREET	30	10	
6+96	-	11+92	101ST STREET	150	20	
			UNDISTRIBUTED	-	100	
TOTALS					2,000	300
(A) ADDITIONAL QUANTITY FOUND IN MULTIPLE TABLES						

REMOVING STORM SEWER STRUCTURES					204.0210	204.0220
STATION	LOCATION	OFFSET	MANHOLES (EACH)	INLETS (EACH)		
495+64	STH 59	48' LT	-	1		
495+78	STH 59	1' LT	1	-		
497+64	STH 59	48' LT	-	1		
497+66	STH 59	48' RT	-	1		
498+46	STH 59	18' RT	1	-		
498+84	STH 59	11' RT	1	-		
499+58	STH 59	0' RT	-	1		
499+88	STH 59	48' RT	-	1		
499+99	STH 59	48' RT	-	1		
501+04	STH 59	28' RT	1	-		
501+61	STH 59	56' LT	1	-		
501+67	STH 59	66' LT	1	-		
502+04	STH 59	48' LT	-	1		
502+12	STH 59	48' RT	-	1		
502+17	STH 59	28' RT	1	-		
502+18	STH 59	11' RT	-	1		
502+18	STH 59	4' RT	-	1		
504+48	STH 59	56' LT	1	-		
504+48	STH 59	73' LT	-	1		
504+77	STH 59	29' RT	1	-		
504+87	STH 59	74' LT	-	1		
505+12	STH 59	48' LT	-	1		
505+14	STH 59	48' RT	-	1		
505+14	STH 59	0' RT	1	-		
505+16	STH 59	29' RT	1	-		
505+25	STH 59	11' RT	-	1		
507+78	STH 59	64' LT	-	1		
507+80	STH 59	56' LT	1	-		
508+03	STH 59	56' LT	1	-		
508+11	STH 59	73' LT	1	-		
508+17	STH 59	74' LT	-	1		
508+42	STH 59	48' LT	-	1		
508+42	STH 59	48' RT	-	1		
508+45	STH 59	30' RT	1	-		
508+48	STH 59	0' RT	1	-		
508+56	STH 59	11' RT	-	1		
508+60	STH 59	29' RT	1	-		
511+09	STH 59	71' LT	-	1		
511+09	STH 59	83' RT	-	1		
511+38	STH 59	72' RT	1	-		
511+38	STH 59	73' RT	1	-		
511+47	STH 59	82' LT	-	1		
511+47	STH 59	84' RT	-	1		
511+73	STH 59	48' LT	-	1		
511+74	STH 59	59' RT	-	1		
TOTALS					19	26

BASE AGGREGATE DENSE					305.0120
STATION	TO	STATION	LOCATION	1 1/4-INCH (TON)	
494+08	-	512+00	STH 59	7,500	
40+00	-	40+85	104TH STREET	100	
30+00	-	33+52	103RD STREET	100	
20+00	-	20+85	102ND STREET	100	
6+96	-	11+92	101ST STREET	300	
			UNDISTRIBUTED	400	
TOTAL					8,500

SELECT CRUSHED MATERIAL					312.0110
STATION	TO	STATION	LOCATION	(TON)	
495+58	-	512+00	STH 59	15,300	
40+00	-	40+85	104TH STREET	50	
30+00	-	33+52	103RD STREET	50	
20+00	-	20+85	102ND STREET	50	
6+96	-	11+92	101ST STREET	250	
			UNDISTRIBUTED	500	
TOTAL					16,200

CONCRETE ITEMS									
				320.0145	415.0090	415.1090	415.0210	416.0610	416.0620
STATION	TO	STATION	LOCATION	BASE 8-INCH (SY)	PAVEMENT 9-INCH (SY)	PAVEMENT HES 9-INCH (SY)	PAVEMENT GAPS (EACH)	DRILLED TIE BARS (EACH)	DRILLED DOWEL BARS (EACH)
495+04	-	495+57	STH 59	200	-	-	-	51	73
498+57	-	512+00	STH 59	-	16,600	-	-	-	-
40+00	-	40+85	104TH STREET	-	150	-	2	-	-
30+00	-	33+52	103RD STREET	-	450	-	2	-	-
20+00	-	20+85	102ND STREET	-	150	-	2	-	-
6+96	-	11+92	101ST STREET	-	650	-	2	129	47
			UNDISTRIBUTED	-	-	500	2	45	40
TOTALS				200	18,000	500	10	225	160

CONCRETE DRIVEWAY					416.0170	416.0270
STATION	TO	STATION	LOCATION	7-INCH (SY)	HES 7-INCH (SY)	
495+58	-	512+00	STH 59	400	-	
40+00	-	40+85	104TH STREET	5	-	
30+00	-	33+52	103RD STREET	5	-	
20+00	-	20+85	102ND STREET	15	-	
6+96	-	11+92	101ST STREET	30	-	
			UNDISTRIBUTED	45	50	
TOTALS					500	50

CURB AND GUTTER					601.0319	601.0331	601.0555	601.0600	620.0300
STATION	TO	STATION	LOCATION	19-INCH (LF)	31-INCH (LF)	6-INCH SLOPED 36-INCH TYPE A (LF)	CONCRETE CURB PEDESTRIAN (LF)	CONCRETE MEDIAN SLOPED NOSE (SF)	
494+08	-	512+00	STH 59	100	5,200	15	200	550	
40+00	-	40+85	104TH STREET	-	100	-	-	-	
30+00	-	33+52	103RD STREET	-	100	-	-	-	
20+00	-	20+85	102ND STREET	-	100	-	-	-	
6+96	-	11+92	101ST STREET	-	600	-	-	-	
TOTALS					100	6,100	15	200	550

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

EARTHWORK													
Stage	From / To Station	Location	205.0100 Common Excavation (1)		Salvaged / Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (8) Factor 0.80	Unexpanded Fill	Expanded Fill (10) Factor 1.20	Mass Ordinate + / - (11)	Waste	208.0100 Borrow (CY)	Comment:
			Cut (2) (CY)	EBS Excavation (3) (CY)									
1	494+22 - 494+90 495+64 - 498+00	STH 59 STH 59	41 215	0 0	0 0	41 215	0 0	0 0	0 0	41 215	41 215		
Sub-total 1			256	0	0	256	0	0	0	256	256	0	
2A	495+57 - 512+00	STH 59	7,693	792	1,820	5,873	634	18	22	6,643	6,643		
	40+46 - 40+85	104TH STREET	93	0	53	40	0	0	0	40	40		
	30+46 - 30+85	103RD STREET	89	0	53	36	0	0	0	36	36		
	20+46 - 20+85	102ND STREET	92	0	52	40	0	0	0	40	40		
	10+46 - 11+93	101ST STREET (NORTH)	265	0	100	165	0	0	0	165	165		
			8,232	792	2,078	6,154	634	18	22	6,924	6,924	0	
2B	495+57 - 512+00	STH 59	7,693	792	1,804	5,889	634	18	22	6,659	6,659		
	1+11 - 2+39	LINCOLN PARK DRIVEWAY	145	0	0	145	0	75	90	55	55		
	6+95 - 9+32	101ST STREET (SOUTH)	302	0	96	206	0	0	0	206	206		
Sub-total 2B			8,140	792	1,900	6,240	634	93	112	6,920	6,920	0	
3	494+22 - 494+90	STH 59	41	0	0	41	0	0	0	41	41		
	495+57 - 512+00	STH 59	3,847	400	282	3,565	320	7	8	3,957	3,957		
Sub-total 3			3,888	400	282	3,606	320	7	8	3,998	3,998	0	
Grand Totals			20,516	1,984	4,260	16,256	1,587	118	142	18,098	18,098	0	
Total Common Excavation			22,500										

1) Common Excavation is the sum of the Cut and EBS Excavation columns
2) Salvaged/Unsuable Pavement Material is included in Cut
3) EBS Excavation to be backfilled with Breaker Run
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusable Pavement Material
8) Reduced EBS in Fill - Excavated EBS material is usable in Fills outside the 1:1 slope (EBS in Fill Reduction factor = 0.8)
10) Expanded Fill (Factor = 1.2)
11) 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.

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

ASPHALT ITEMS										
				460.1110	455.0115	455.0120	455.0605	465.0105	465.0120	465.0125
				HMA PAVEMENT TYPE E-10 (TON)	ASPHALTIC MATERIAL PG64-22 (TON)	ASPHALTIC MATERIAL PG64-28 (TON)	TACK COAT (GAL)	ASPHALTIC SURFACE (TON)	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (TON)	ASPHALTIC SURFACE TEMPORARY (TON)
STATION	TO	STATION	LOCATION							
495+04	-	512+00	STH 59	50	2	1	20	-	170	150
40+00	-	40+85	104TH STREET	-	-	-	-	20	-	-
30+00	-	33+52	103RD STREET	-	-	-	-	20	-	-
20+00	-	20+85	102ND STREET	-	-	-	-	20	-	-
6+96	-	11+92	101ST STREET	-	-	-	-	-	5	-
			UNDISTRIBUTED	-	-	-	-	-	-	50
TOTALS				50	2	1	20	60	175	200

STORM SEWER PIPES													
608.0312 608.0315 608.0324 608.0330 608.0336 608.0348 608.0512 608.0518 520.8000													
FROM	TO	INLET ELEV	OUTLET ELEV	SLOPE FT/FT	CLASS III 12-INCH (LF)	CLASS III 15-INCH (LF)	CLASS III 24-INCH (LF)	CLASS III 30-INCH (LF)	CLASS III 36-INCH (LF)	CLASS III 48-INCH (LF)	CLASS V 12-INCH (LF)	CLASS V 18-INCH (LF)	CONCRETE COLLAR (EACH)
5.2	5.0	743.17	742.60	0.018	31	-	-	-	-	-	-	-	-
5.3	5.2	744.06	743.17	0.018	49	-	-	-	-	-	-	-	-
5.6	5.7	743.39	743.32	0.010	7	-	-	-	-	-	-	-	-
5.7	5.2	743.32	743.25	0.010	7	-	-	-	-	-	-	-	-
5.8	EX	743.97	743.93	0.005	8	-	-	-	-	-	-	-	1
5.9	EX	744.17	744.13	0.005	8	-	-	-	-	-	-	-	1
6.0	EX	741.05	741.01	0.005	-	-	-	-	-	8	-	-	1
7.0	6.0	741.73	741.05	0.011	-	-	-	-	-	62	-	-	-
EX	7.0	741.77	741.73	0.005	-	-	-	-	-	8	-	-	1
7.1	7.0	743.60	743.23	0.010	-	-	-	-	-	-	-	37	-
7.2	7.1	744.20	744.10	0.010	-	-	-	-	-	-	10	-	-
7.3	7.1	744.20	744.10	0.010	-	-	-	-	-	-	10	-	-
7.4	7.0	742.88	742.73	0.005	-	-	-	-	-	-	-	29	-
7.5	7.4	743.06	742.88	0.005	-	-	-	-	-	-	-	37	-
7.6	7.5	743.66	743.56	0.010	-	-	-	-	-	-	10	-	-
7.7	7.5	743.66	743.56	0.010	-	-	-	-	-	-	10	-	-
8.1	EX	745.52	745.48	0.005	-	-	-	-	-	-	8	-	1
8.2	EX	744.49	744.30	0.020	9	-	-	-	-	-	-	-	1
8.3	EX	744.71	744.67	0.050	8	-	-	-	-	-	-	-	1
EX	9.0	745.26	745.22	0.050	8	-	-	-	-	-	-	-	1
EX	9.0	744.01	743.97	0.050	-	-	-	-	-	8	-	-	1
9.0	EX	743.97	743.93	0.050	-	-	-	-	-	8	-	-	1
EX	9.1	746.52	746.48	0.050	8	-	-	-	-	-	-	-	1
9.1	EX	746.48	746.38	0.013	8	-	-	-	-	-	-	-	1
9.2	9.1	746.68	746.48	0.017	12	-	-	-	-	-	-	-	-
EX	9.2	746.72	746.68	0.005	8	-	-	-	-	-	-	-	1
EX	9.2	746.72	746.68	0.005	8	-	-	-	-	-	-	-	1
9.4	9.2	746.73	746.68	0.005	10	-	-	-	-	-	-	-	-
9.5	EX	747.76	747.68	0.010	8	-	-	-	-	-	-	-	1
9.6	EX	754.62	754.58	0.005	8	-	-	-	-	-	-	-	1
EX	10.0	745.22	745.19	0.005	-	-	-	-	-	8	-	-	1
10.0	EX	745.19	745.15	0.005	-	-	-	-	-	8	-	-	1
10.1	10.0	748.46	748.19	0.015	18	-	-	-	-	-	-	-	-
10.2	10.1	748.57	748.46	0.016	7	-	-	-	-	-	-	-	-
10.3	10.0	748.49	748.19	0.015	20	-	-	-	-	-	-	-	-
EX	11.0	753.43	753.39	0.005	-	-	-	-	8	-	-	-	1
EX	11.0	753.68	753.64	0.005	-	-	-	-	8	-	-	-	1
11.0	EX	753.39	753.35	0.005	-	-	-	-	-	8	-	-	1
11.3	11.2	756.50	756.39	0.010	11	-	-	-	-	-	-	-	-
11.4	EX	757.16	757.12	0.005	8	-	-	-	-	-	-	-	1
11.5	11.3	756.99	756.50	0.015	33	-	-	-	-	-	-	-	-
11.6	EX	762.59	762.55	0.005	8	-	-	-	-	-	-	-	1
EX	12.0	755.30	755.26	0.005	-	-	-	8	-	-	-	-	1
12.0	EX	755.26	755.22	0.005	-	-	-	-	8	-	-	-	1
12.1	12.0	757.53	757.26	0.015	18	-	-	-	-	-	-	-	-
12.2	12.1	757.67	757.53	0.020	7	-	-	-	-	-	-	-	-
12.3	12.0	757.55	757.26	0.015	19	-	-	-	-	-	-	-	-
SUBTOTALS					354	0	0	8	24	118	48	103	25

STORM SEWER PIPES													
608.0312 608.0315 608.0324 608.0330 608.0336 608.0348 608.0512 608.0518 520.8000													
FROM	TO	INLET ELEV	OUTLET ELEV	SLOPE FT/FT	CLASS III 12-INCH (LF)	CLASS III 15-INCH (LF)	CLASS III 24-INCH (LF)	CLASS III 30-INCH (LF)	CLASS III 36-INCH (LF)	CLASS III 48-INCH (LF)	CLASS V 12-INCH (LF)	CLASS V 18-INCH (LF)	CONCRETE COLLAR (EACH)
CONTINUED FROM PREVIOUS					354	0	0	8	24	118	48	103	25
EX	13.1	763.76	763.72	0.005	8	-	-	-	-	-	-	-	1
13.1	EX	763.09	763.05	0.005	8	-	-	-	-	-	-	-	1
13.2	13.1	763.31	763.09	0.016	14	-	-	-	-	-	-	-	-
EX	13.2	763.35	763.31	0.005	7	-	-	-	-	-	-	-	1
13.3	13.2	763.51	763.31	0.025	8	-	-	-	-	-	-	-	-
13.4	13.2	763.78	763.31	0.015	31	-	-	-	-	-	-	-	-
14.0	EX	761.91	761.87	0.005	0	-	-	8	-	-	-	-	1
14.1	14.2	764.96	763.94	0.020	51	-	-	-	-	-	-	-	-
14.2	14.3	763.94	763.76	0.020	9	-	-	-	-	-	-	-	-
14.3	14.0	763.76	763.41	0.019	18	-	-	-	-	-	-	-	-
14.4	14.0	763.59	763.41	0.010	18	-	-	-	-	-	-	-	-
15.0	14.0	762.48	761.91	0.040	-	-	14	-	-	-	-	-	-
EX	15.0	762.52	762.48	0.005	-	-	8	-	-	-	-	-	1
16.2	16.1	774.21	774.10	0.007	15	-	-	-	-	-	-	-	-
16.3	16.2	774.54	774.21	0.012	28	-	-	-	-	-	-	-	-
EX	16.3	774.58	774.54	0.005	8	-	-	-	-	-	-	-	1
16.4	16.3	775.74	775.38	0.012	-	-	-	-	-	-	31	-	-
16.5	16.3	774.94	774.38	0.020	20	-	-	-	-	-	-	-	-
16.6	16.2	776.30	774.21	0.040	52	-	-	-	-	-	-	-	-
16.7	EX	774.77	774.73	0.005	-	8	-	-	-	-	-	-	1
16.8	16.7	776.00	774.98	0.020	51	-	-	-	-	-	-	-	-
16.9	16.7	774.91	774.73	0.009	-	21	-	-	-	-	-	-	-
EX	16.9	775.20	775.16	0.005	8	-	-	-	-	-	-	-	1
16.10	16.9	775.34	775.16	0.005	-	-	-	-	-	-	37	-	-
16.11	16.9	775.94	775.16	0.020	39	-	-	-	-	-	-	-	-
16.12	16.13	776.06	775.79	0.030	9	-	-	-	-	-	-	-	-
16.13	16.0	775.79	773.22	0.044	58	-	-	-	-	-	-	-	-
EX	18.0	767.78	767.74	0.005	-	-	8	-	-	-	-	-	1
18.0	EX	767.74	767.70	0.005	-	-	8	-	-	-	-	-	1
18.1	18.0	770.76	770.68	0.010	8	-	-	-	-	-	-	-	-
18.2	18.1	770.84	770.76	0.010	8	-	-	-	-	-	-	-	-
TOTALS					830	29	38	16	24	118	116	103	35

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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STRUCTURE SCHEDULE																					
						611.2004	611.2006	611.3230	611.3901	611.0420	SPV.0060.2207	SPV.0060.2208	611.0530	611.0624	611.0639	611.0642	611.0654	611.8110	611.8115	611.8120.S	
STRUC. NO.	STATION	OFFSET TO CENTER OF STRUCTURE	CASTING ELEV.	TOP OF STR. ELEV.	BOTTOM OF STR. ELEV.	DEPTH	MANHOLES 4-FT DIAMETER (EACH)	MANHOLES 6-FT DIAMETER (EACH)	INLETS 2x3-FT 1 GRATE (EACH)	RECONSTRUCTING MANHOLES (EACH)	MANHOLE TYPE 7 SPECIAL (EACH)	MANHOLE TYPE 8 SPECIAL (EACH)	MANHOLE COVERS TYPE J (EACH)	INLET COVERS TYPE H (EACH)	INLET COVERS TYPE HS (EACH)	INLET COVERS TYPE MS (EACH)	INLET COVERS TYPE V (EACH)	ADJUSTING MANHOLE COVERS (EACH)	ADJUSTING INLET COVERS (EACH)	COVER PLATES TEMPORARY (EACH)	
5.0	495+53.4	17.8' RT	747.92	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	
5.1	495+64.3	47.5' RT	747.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
5.2	495+78.2	0.5' LT	747.96	746.71	743.00	3.71	1	-	-	-	-	-	1	-	-	-	-	-	1	-	
5.3	495+63.7	47.5' LT	747.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.6	495+84.5	10.5' RT	747.73	746.93	743.23	3.70	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
5.7	495+84.5	3.5' RT	747.76	746.90	743.15	3.75	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
5.8	497+63.5	47.5' LT	747.73	746.90	743.80	3.10	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
5.9	497+65.5	47.5' RT	747.99	747.16	744.00	3.16	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
6.0	498+45.5	17.7' RT	748.57	747.32	740.63	6.69	-	1	-	-	-	-	1	-	-	-	-	-	-	-	
7.0	499+06.7	10.5' RT	748.48	747.15	741.31	5.84	-	1	-	-	1	+	-	-	-	-	1	-	-	-	
7.1	499+06.7	47.5' RT	747.61	746.48	743.39	3.09	-	-	1	-	-	-	-	-	-	-	1	-	-	-	
7.2	498+96.7	47.5' RT	747.62	746.49	744.03	2.46	-	-	1	-	-	-	-	-	-	-	1	-	-	-	
7.3	499+16.7	47.5' RT	747.64	746.51	744.03	2.48	-	-	1	-	-	-	-	-	-	-	1	-	-	-	
7.4	498+87.3	10.5' LT	747.80	746.67	742.67	4.00	-	-	1	-	-	-	-	-	-	-	1	-	-	-	
7.5	498+87.3	47.5' LT	747.15	746.02	742.85	3.17	-	-	1	-	-	-	-	-	-	-	1	-	-	-	
7.6	498+77.3	47.5' LT	747.18	746.05	743.49	2.56	-	-	1	-	-	-	-	-	-	-	1	-	-	-	
7.7	498+97.3	47.5' LT	747.18	746.05	743.49	2.56	-	-	1	-	-	-	-	-	-	-	1	-	-	-	
8.0	499+94.8	9.2' RT	749.01	747.76	742.28	5.48	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
8.1	499+88.4	47.5' LT	747.98	747.15	745.35	1.80	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
8.2	499+58.0	0.0' RT	750.25	750.25	744.32	5.93	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
8.3	499+98.8	47.5' RT	748.24	747.41	744.54	2.87	-	-	1	-	-	-	-	-	-	-	1	-	-	-	
9.0	501+04.0	28.2' RT	750.72	749.47	743.55	5.92	-	1	-	-	-	-	1	-	-	-	-	-	-	-	
9.1	501+61.2	55.6' LT	751.51	750.26	746.31	3.95	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
9.2	501+66.5	66.1' LT	751.52	750.27	746.51	3.76	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
9.3	501+37.2	76.4' LT	751.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
9.4	501+77.2	67.5' LT	751.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
9.5	502+03.6	47.5' LT	752.13	751.30	747.59	3.71	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
9.6	504+47.7	55.8' LT	759.98	758.73	754.45	4.28	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
10.0	502+17.0	28.4' RT	753.08	751.83	744.77	7.06	-	1	-	-	-	-	1	-	-	-	-	-	-	-	
10.1	502+17.5	10.5' RT	752.78	751.95	748.29	3.66	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
10.2	502+17.5	3.5' RT	752.43	751.60	748.40	3.20	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
10.3	502+12.0	47.5' RT	752.40	751.57	748.32	3.25	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
11.0	504+77.3	29.4' RT	760.93	759.68	752.97	6.71	-	1	-	-	-	-	1	-	-	-	-	-	-	-	
11.1	507+76.7	55.1' LT	760.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
11.2	504+76.7	73.0' LT	760.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
11.3	504+86.1	68.0' LT	760.36	759.53	756.33	3.20	-	-	1	-	-	-	-	-	1	-	-	-	-	-	
11.4	504+48.0	73.0' LT	760.12	759.29	756.99	2.30	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
11.5	505+12.0	47.5' LT	761.71	760.88	756.82	4.06	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
11.6	507+80.2	55.6' LT	767.92	766.67	762.42	4.25	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
12.0	505+16.4	28.5' RT	762.16	760.91	754.93	5.98	-	1	-	-	-	-	1	-	-	-	-	-	-	-	
12.1	505+16.4	10.5' RT	762.04	760.79	757.36	3.43	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
12.2	505+16.4	3.5' RT	761.80	760.97	757.50	3.47	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
12.3	505+13.6	47.5' RT	761.52	760.69	757.38	3.31	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
12.5	506+56.2	65.4' RT	766.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
13.0	507+73.2	28.6' RT	768.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13.1	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
13.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13.4	507+77.8	64.0' LT	767.52	766.69	763.61	3.08	-	-	1	-	-	-	-	-	1	-	-	-	-	-	
13.5	511+08.6	55.8' LT	778.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
14.0	508+45.4	29.6' RT	770.13	768.88	761.62	7.26	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
14.1	508+48.6	47.5' LT	769.20	768.37	764.79	3.58	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
ADD. WAF 0091 LINCOLN PARK DRIVEWAY							-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ADD. 501+81 69' RT							-	-	-	-	-	-	-	-	-	-	-	-	1	-	
SUBTOTALS							57	57	25 27	1	1	1	0	13	15	3	1	10	5	6	0

ADD. WAF 0091 LINCOLN PARK DRIVEWAY

ADD. 501+81 69' RT

Brian Klipstein
As-Built 3/4/14

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

STRUCTURE SCHEDULE																					
						611.2004	611.2006	611.3230	611.3901	611.0420	SPV.0060.2207	SPV.0060.2208	611.0530	611.0624	611.0639	611.0642	611.0654	611.8110	611.8115	611.8120.S	
STRUC. NO.	STATION	OFFSET TO CENTER OF STR.	CASTING ELEV.	TOP OF STR. ELEV.	BOTTOM OF STR. ELEV.	DEPTH	MANHOLES 4-FT DIAMETER (EACH)	MANHOLES 6-FT DIAMETER (EACH)	INLETS 2x3-FT 1 GRATE (EACH)	RECONSTRUCTING MANHOLES (EACH)	MANHOLE TYPE 7 SPECIAL (EACH)	MANHOLE TYPE 8 SPECIAL (EACH)	MANHOLE COVERS TYPE J (EACH)	INLET COVERS TYPE H (EACH)	INLET COVERS TYPE HS (EACH)	INLET COVERS TYPE MS (EACH)	INLET COVERS TYPE V (EACH)	ADJUSTING MANHOLE COVERS (EACH)	ADJUSTING INLET COVERS (EACH)	COVER PLATES TEMPORARY (EACH)	
CONTINUED FROM PREVIOUS							-5 7	-5 7	-25 27	1	1	1	-1 0	-11 13	-16 15	-2 3	1	-8 10	5	-5 6	-
14.2	508+48.3	3.5' RT	769.15	768.32	763.77	4.55	-	-	1	-	-	-	-	-	1	-	-	-	-	-	
14.3	508+47.9	11.7' RT	769.66	768.83	763.59	5.24	-	-	1	-	-	-	-	-	1	-	-	-	-	-	
14.4	508+49.4	58.7' RT	769.56	768.73	763.42	5.31	-	-	1	-	-	-	-	-	1	-	-	-	-	-	
15.0	508+59.6	28.6' RT	770.38	769.13	762.23	6.90	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
16.0	511+38.6	28.2' RT	780.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
16.1	511+37.4	34.7' LT	780.00	-	-	-	-	-	-	-	-	-	-	-1	-	-	-	1	-	-	
16.2	511+37.4	49.5' LT	779.73	778.48	774.04	4.44	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
16.3	511+37.5	72.8' LT	779.20	777.95	774.37	3.58	-	1	-	-	-	-	1	-	-	-	-	-	-	-	
16.4	511+06.5	72.8' LT	778.51	777.68	775.57	2.11	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
16.5	511+47.6	90.1' LT	778.77	777.94	774.77	3.17	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
16.6	511+90.0	47.9' LT	781.71	780.88	776.14	4.74	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
16.7	511+38.1	59.5' RT	780.34	779.09	774.54	4.55	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
16.8	511+95.0	72.3' RT	782.24	781.41	775.84	5.57	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
16.9	511+38.9	80.0' RT	779.98	778.73	774.72	4.01	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
16.10	510+95.4	88.7' RT	778.28	777.45	775.18	2.27	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
16.11	511+50.1	117.8' RT	779.53	778.70	775.77	2.93	-	-	1	-	-	-	-	-	1	-	-	-	-	-	
16.12	511+98.5	23.9' RT	783.03	782.20	775.89	6.31	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
16.13	511+90.0	3.8' RT	782.43	781.60	775.62	5.98	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
18.0	508+06.3	28.2' RT	774.97	773.72	767.49	6.23	1	-	-	-	-	-	-4	-	-	-	-	-	-	-	
18.1	508+14.2	24.2' RT	775.02	774.19	770.59	3.60	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
18.2	508+14.4	16.1' RT	774.83	774.00	770.67	3.33	-	-	1	-	-	-	-	1	-	-	-	-	-	-	
UNDISTRIBUTED							-	-	-	-	-	-	-	-	-	-	-	-	-	5	
TOTALS							-10 12	-6 8	-38 40	1	1	1	-1 0	20	-28 27	-3 4	1	-8 10	7	-5 6	5

NOTES:
DEPTH OF STRUCTURE IS MEASURED FROM TOP OF STRUCTURE TO BOTTOM OF STRUCTURE

FOR MANHOLE COVER TYPE J: TOP OF STRUCTURE IS 15" BELOW CASTING ELEVATION
FOR INLET COVER TYPE H: TOP OF STRUCTURE IS 10" BELOW CASTING ELEVATION
FOR INLET COVER TYPE H-S: TOP OF STRUCTURE IS 10" BELOW CASTING ELEVATION
FOR INLET COVER TYPE MS: TOP OF STRUCTURE IS 0" BELOW CASTING ELEVATION
FOR INLET COVER TYPE V: TOP OF STRUCTURE IS 16" BELOW CASTING ELEVATION

ALL COVERS INCLUDE 6" OF ADJUSTMENT RINGS

TRAFFIC CONTROL DEVICES																		
				616.0700.S	643.0300	643.0420	643.0500	643.0600	643.0705	643.0715	643.0800	643.0900	643.0920	643.1050	SPV.0045.2201	SPV.0060.2203		
				FENCE SAFETY (LF)	DRUMS (DAYS)	BARRICADES TYPE III (DAYS)	FLEXIBLE TUBULAR MARKER POSTS (EACH)	FLEXIBLE TUBULAR MARKER BASES (EACH)	WARNING LIGHTS TYPE A (DAYS)	WARNING LIGHTS TYPE C (DAYS)	ARROW BOARDS (DAYS)	TRAFFIC CONTROL SIGNS (DAYS)	COVERING SIGNS TYPE II (EACH)	SIGNS PORTABLE CHANGEABLE MESSAGE (DAYS)	TEMPORARY CROSSWALK/ SIDEWALK (DAYS)	TEMPORARY BUS STOP PAD (EACH)		
STAGE	STATION	TO	STATION	LOCATION														
STAGE 1	495+58	-	512+00	STH 59	-	1,500	300	-	-	500	100	10	600	-	10	-	-	
STAGE 2A	495+58	-	512+00	STH 59	-	6,300	1,600	60	60	2,300	1,700	60	2,300	-	-	300	4	
STAGE 2B	495+58	-	512+00	STH 59	-	4,500	900	60	60	1,300	1,300	40	1,600	-	-	250	4	
STAGE 3	495+58	-	512+00	STH 59	-	2,400	700	-	-	900	200	20	1,000	-	-	50	2	
PROJECT (UNDISTRIBUTED)					1,000	1,500	400	30	30	500	400	20	600	10	-	50	-	
TOTALS					1,000	16,200	3,900	150	150	5,500	3,700	150	6,100	10	10	650	10	B

Brian Klipstein
As-Built 3/4/14

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

TYPE II SIGN REMOVAL			2230-15-70 STH 59		
SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	REMARKS / NEW SIGN LOCATION
R1	R2-1	--	1	--	--
R2	R7-1D	--	1	--	--
R3	R4-7	--	1	1	--
R4	R4-7	--	1	1	--
R5	R2-1	--	1	--	--
R6	R4-7	--	1	1	--
R7	R4-7	--	1	1	--
R8	R7-1R	--	1	1	--
R9	R1-1	--	1	1	--
R10	R7-1D	--	1	1	--
R11	W12-2	--	1	1	--
R12	W12-2	--	1	1	--
R13	R7-1D	--	1	--	--
R14	R1-1	--	1	1	--
R15	W3-3	--	1	--	--
R16	R7-1D	--	1	--	--
R17	JV1-1	--	1	--	--
R18	R7-1D	--	1	--	--
R19	R7-1D	--	1	--	--
R20	R3-4	--	1	1	--
R21	R1-1F	--	1	--	--
R22	R1-1F	--	1	--	--
R23	R1-1F	--	1	--	--
R24	R1-1F	--	1	--	--
R25	R4-7	--	1	--	--
R26	R2-1	--	1	--	--
R27	R2-1	--	1	1	--
R28	R7-1D	--	1	--	--
R29	R7-1R	--	1	--	--
R30	R1-1	--	1	1	--
R31	R7-1D		1		
TOTALS			31	13	

3

TYPE II PERMANENT SIGNING -

2230-15-70 STH 59

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE			637.0202	634.0618	634.0816	637.0402	638.2102	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
			W [IN.]	x	H [IN.]	SIGNS REFLC TYPE II [SF]	WOOD POSTS 4"X 6"x18' [EA]	TUBULAR STEEL POSTS 2x2x16' [EA]	SIGNS REFLECTIVE FOLDING TYPE II SF	MOVE SIGNS TYPE II [EA]		
1	R5-1	DO NOT ENTER	--	x	--	--	1	--	--	1	--	--
2	R7-1D	NO PARKING	--	x	--	--	--	1	--	1	--	--
3	R6-2L(2S)	ONE WAY	24	x	30	5.000	1	--	--	--	--	--
4	R4-7	KEEP RIGHT	--	x	--	--	--	--	--	1	--	MOUNT ON LIGHT POLE
5	D1-65	S 108th St NEXT SIGNAL	--	x	--	--	2	--	--	1	--	--
6	J1-1	EXISTING ASSEMBLY	--	x	--	--	1	--	--	1	--	--
7	J1-1	EXISTING ASSEMBLY	--	x	--	--	1	--	--	1	--	--
8	R7-1D	NO PARKING	--	x	--	--	--	1	--	1	--	--
9	R5-1	DO NOT ENTER	--	x	--	--	1	--	--	1	--	--
10	D1-65(2)	S 108th St NEXT SIGNAL	60	x	21	8.750	2	--	--	--	--	--
11	R7-1D(2S)	NO PARKING	18	x	24	3.000	--	1	--	--	--	--
12	R6-2L(2S)	ONE WAY	24	x	30	5.000	1	--	--	--	--	--
13	R4-7(2S)	KEEP RIGHT	24	x	30	5.000	1	--	--	--	--	--
14	R4-7(2S)	KEEP RIGHT	24	x	30	5.000	1	--	--	--	--	--
15	R2-1(2S)	SPEED LIMIT 35	24	x	30	5.000	1	--	--	--	--	--
16	W12-2(2S)	LOW CLEARANCE 14'-5"	36	x	36	9.000	1	--	--	--	--	--
17	W12-2(2S)	LOW CLEARANCE 14'-5"	36	x	36	9.000	--	--	--	--	--	MOUNT ON LIGHT POLE
18	R7-1D(2S)	NO PARKING	18	x	24	3.000	--	1	--	--	--	--
19	R5-1(2S)	DO NOT ENTER	30	x	30	6.250	1	--	--	--	--	--
20	R1-1(3)	STOP	36	x	36	7.460	1	--	--	--	--	--
21	R2-1(2S)	SPEED LIMIT 35	24	x	30	5.000	1	--	--	--	--	--
22	R5-1(2S)	DO NOT ENTER	30	x	30	6.250	1	--	--	--	--	--
23	R5-1(2S)	DO NOT ENTER	30	x	30	6.250	1	--	--	--	--	--
24	R4-7(2S)	KEEP RIGHT	24	x	30	5.000	1	--	--	--	--	--
25	R4-7(2S)	KEEP RIGHT	24	x	30	5.000	1	--	--	--	--	--
26	R6-2L(2S)	ONE WAY	24	x	30	5.000	1	--	--	--	--	--
27	W3-3(2S)	SIGNAL AHEAD	36	x	36	9.000	1	--	--	--	--	--
28	W3-3(2S)	SIGNAL AHEAD	36	x	36	9.000	1	--	--	--	--	--
29	R7-1D(2S)	NO PARKING	18	x	24	3.000	--	1	--	--	--	--
30	JV1-1(2S)	--	24	x	63	10.500	1	--	--	--	--	--
	MB2-1	JCT	21	x	15							
	M1-1	IH 94	24	x	24							
	M1-4	USH 45	24	x	24							

3

TYPE II PERMANENT SIGNING -

2230-15-70 STH 59

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE			637.0202	634.0618	634.0816	637.0402	638.2102	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
			W [IN.]	x x	H [IN.]	SIGNS REFLC TYPE II [SF]	WOOD POSTS 4"X 6"x18' [EA]	TUBULAR STEEL POSTS 2x2x16' [EA]	SIGNS REFLECTIVE FOLDING TYPE II SF	MOVE SIGNS TYPE II [EA]		
31	R6-2L(2S)	ONE WAY	24	x	30	5.000	1	--	--	--	--	--
32	R7-1D(2S)	NO PARKING	18	x	24	3.000	--	1	--	--	--	--
33	R4-7(2S)	KEEP RIGHT	24	x	30	5.000	1	--	--	--	--	--
34	R4-7(2S)	KEEP RIGHT	24	x	30	5.000	1	--	--	--	--	--
35	R5-1(2S)	DO NOT ENTER	30	x	30	6.250	1	--	--	--	--	--
36	R7-1D(2S)	NO PARKING	18	x	24	3.000	--	--	--	--	#37	--
37	R5-1(2S)	DO NOT ENTER	30	x	30	6.250	1	--	--	--	--	--
38	R1-1(3)	STOP	36	x	36	7.460	1	--	--	--	--	--
39	R7-1D(2S)	NO PARKING	18	x	24	3.000	--	--	--	--	#40	--
40	R5-1(2S)	DO NOT ENTER	30	x	30	6.250	1	--	--	--	--	--
41	R1-1(3)	STOP	36	x	36	7.460	1	--	--	--	--	--
42	R1-1F(3)	STOP FOLDING	36	x	36		--	--	7.46	--	--	MOUNT ON SIGNAL POLE
43	R1-1F(3)	STOP FOLDING	36	x	36		--	--	7.46	--	--	MOUNT ON SIGNAL POLE
44	R4-7(2S)	KEEP RIGHT	24	x	30	5.000	--	--	--	--	--	MOUNT ON SIGNAL POLE
45	R1-1F(3)	STOP FOLDING	36	x	36	7.460	--	--	1	--	--	MOUNT ON SIGNAL POLE
46	R6-2L(2M)	ONE WAY	30	x	36	7.500	1	--	--	--	--	MOUNT ON SIGNAL POLE
47	R5-1(2S)	DO NOT ENTER	30	x	30	6.250	--	--	--	--	--	MOUNT ON SIGNAL POLE
48	R4-7(2S)	KEEP RIGHT	24	x	30	5.000	--	--	--	--	--	MOUNT ON SIGNAL POLE
49	R1-1F(3)	STOP FOLDING	36	x	36		--	--	7.46	--	--	MOUNT ON SIGNAL POLE
50	R1-1F(3)	STOP FOLDING	36	x	36		--	--	7.46	--	--	MOUNT ON SIGNAL POLE
51	R5-1(2S)	DO NOT ENTER	30	x	30	6.250	--	--	--	--	--	MOUNT ON SIGNAL POLE
52	R6-2L(2M)	ONE WAY	30	x	36	7.500	1	--	--	--	--	MOUNT ON SIGNAL POLE
53	R1-1F(3)	STOP FOLDING	36	x	36		--	--	7.46	--	--	MOUNT ON SIGNAL POLE
54	R2-1(2S)	SPEED LIMIT 35	24	x	30	5.000	1	--	--	--	--	--
55	R7-1D(2S)	NO PARKING	18	x	24	3.000	--	--	--	--	#54	--
56	--	* NOT USED *	--	x	--	--	--	--	--	--	--	* NOT USED *
57	S1-1(2M)	SCHOOL	36	x	36	9.000	1	--	--	--	--	--
58	WF16-9P(2M)	AHEAD	30	x	18	3.750	--	--	--	--	#57	--
59	W12-1D(2S)	DOUBLE DOWN	24	x	24	4.000	1	--	--	--	--	2' MOUNTING HEIGHT
60	R5-1(2S)	DO NOT ENTER	30	x	30	6.250	1	--	--	--	--	--
61	R10-50(2M)	LEFT TURN YIELD	30	x	36	7.500	--	--	--	--	--	MOUNT ON SIGNAL POLE ABOVE HEAD
62	R10-50(2M)	LEFT TURN YIELD	30	x	36	7.500	--	--	--	--	--	MOUNT ON MAST ARM
63	R2-1(2S)	SPEED LIMIT 35	24	x	30	5.000	1	--	--	--	--	--
64	R3-7R(3)	RIGHT TURN LANE MUST TURN RIGHT	36	x	36	9.000	--	--	--	--	31	SHEET 3
65	R3-7R(3)	RIGHT TURN LANE MUST TURN RIGHT	36	x	36	9.000	1	--	--	--	--	SHEET 3
TOTALS						307.090	41	6	38	8	--	--

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
1	POLES, TYPE 10
1	POLES, TYPE 12
2	POLES, TYPE 13
1	30' MONOTUBE ARM
1	35' MONOTUBE ARM
2	45' MONOTUBE ARM
3	ACCESSIBLE PEDESTRIAN PUSH BUTTON
4	LUMINAIRE ARMS, STEEL 15'
1	VIDEO DETECTION SYSTEM
4	EVP DETECTOR HEADS

STATE FURNISHED
FOR INFORMATION ONLY

SIG. BASE NO.	POLE TYPE 10 EACH	POLE TYPE 12 EACH	POLE TYPE 13 EACH	MONO 30' ARM EACH	MONO 35' ARM EACH	MONO 45' ARM EACH	LUMIN. 15' ARMS EACH
SB2			1		1		1
SB4			1			1	2
SB8	1			1			1
SB13		1				1	
TOTAL	1	1	2	1	1	2	4

TRANSPORTING AND INSTALLING ACCESSIBLE
PEDESTRIAN SIGNAL PUSH BUTTON EQUIPMENT

SPV.0060.2231 TRANSPORTING AND INSTALLING ACCESSIBLE ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON EQUIPMENT	
SIG. BASE NO.	EACH
SB3	1
SB4	1
SB5	1
TOTAL	3

STH 59 & 101st St
S1172

TRAFFIC SIGNAL FACES

SIG. HEAD NO.	SIG. BASE NO.	658.0110 3-12" VERT. EACH	658.0115 4-12" VERT. EACH	658.0600 RED BALL EACH	658.0605 YELLOW BALL EACH	658.0610 GREEN BALL EACH	658.0615 RED ARROW EACH	658.0620 YELLOW ARROW EACH	658.0625 GREEN ARROW EACH	658.0215 BCKPLT 3-SEC. EACH	658.0220 BCKPLT 4-SEC. EACH	658.0416 PED. FACE 16" EACH	658.0635 LED MODULES PED COUNTDOWN TIMER 16" EACH
1	SB10	1		1	1	1				1			
2	SB4	1		1	1	1				1			
3	SB4	1		1	1	1				1			
4	SB3	1					1	2		1			
5	SB4	1					1	2		1			
6	SB3	1		1	1	1				1			
7	SB13	1		1	1	1				1			
8	SB13	1		1	1	1				1			
9	SB10		1				1	2	1		1		
10	SB13		1				1	2	1		1		
11	SB7	1		1	1	1				1			
12	SB1	1		1	1	1				1			
13	SB2	1		1	1	1				1			
14	SB1	1		1	1	1				1			
15	SB7	1		1	1	1				1			
16	SB8	1		1	1	1				1			
17	SB10											1	1
18	SB11											1	1
19	SB11											1	1
20	SB13											1	1
21	SB1											1	1
22	SB2											1	1
23	SB3											1	1
24	SB4											1	1
25	SB4											1	1
26	SB5											1	1
27	SB6											1	1
28	SB9											1	1
TOTAL		14	2	12	12	12	4	8	2	14	2	12	12

PULL BOXES

653.0140		
PULL BOX NO.	LOCATION**	PULL BOXES 24"x42" EACH
PB1	511+04, 88.8' LT	1
PB2	511+51, 88.8' LT	1
PB3	512+10, 52.7' LT	1
PB4	512+10, 12' RT	1
PB5	512+10, 76.5' RT	1
PB6	511+54, 106.7' RT	1
PB7	511+00, 106.3' RT	1
PB8	510+42, 70.8' RT	1
PB9	510+42, 19.0' RT	1
PB10	510+42, 7.2' LT	1
PB11	510+43, 51.9' LT	1
PB12	510+78, 60.5' LT	1
TOTAL*		12

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

GENERATORS

661.0300 GENERATORS DAY	
LOCATION	
STH 59 & 101ST STREET	2
TOTAL	2

ALL ITEMS ON THIS PAGE ARE CATEGORY 0020

* QUANTITY SHOWN ELSEWHERE

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STH 59 & 101st St
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TRAFFIC SIGNAL POLES														SPV.0060.1063 LUMINAIRES LED CATEGORY C EACH	657.0610 LUMIN. ARM SINGLE MEMBER 4 1/2" CLAMP 6-FT EACH	657.1815 INSTALL LUMIN. 15-FOOT EACH	
SIG. BASE NO.	657.0100 PED. BASE EACH	657.0255 TRANS. BASE EACH	657.0322 POLE TYPE 5 EACH	657.0420 13-FOOT STAND. EACH	657.0425 15-FOOT STAND. EACH	657.0430 10-FOOT STAND. EACH	657.1350 INSTALL POLE TYPE 10 EACH	657.1355 INSTALL POLE TYPE 12 EACH	657.1360 INSTALL POLE TYPE 13 EACH	657.1530 INSTALL MONO 30' ARM EACH	657.1535 INSTALL MONO 35' ARM EACH	657.1545 INSTALL MONO 45' ARM EACH	658.0500 PUSH BUTTON EACH				
SB1	1			1										1			
SB2									1			1		1			1
SB3	1			1													
SB4									1				1			2	2
SB5	1					1											
SB6	1					1								1			
SB7	1			1													
SB8							1				1					1	1
SB9	1					1								1			
SB10	1				1									1			
SB11	1					1								1			
SB12		1	1													2	2
SB13								1					1	1			
TOTAL	8	1	1	3	1	4	1	1	2	1	1	2	7		6	2	4

CONDUIT					
LOC.	TO	LOC.	652.0225 CONDUIT NONMET. 2-INCH L.F.	652.0235 CONDUIT NONMET. 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1		PB1		60	
PB1		SB1	18		
PB1		PB2			88
PB2		SB2		23	
PB2		PB3		134	
PB3		SB3	20		
PB3		PB4			122
PB4		SB4		19	
PB4		PB5			122
PB5		SB5	19		
PB5		PB6		132	
PB6		SB6	27		
PB6		SB7	19		
PB6		PB7			100
PB7		SB8		18	
PB7		SB9	26		
PB7		PB8		136	
PB8		SB10	19		
PB8		PB9			96
PB9		SB11	18		
PB9		PB10			46
PB10		SB12	2		
PB10		PB11			82
PB11		PB12		64	
PB12		SB13		12	
PB12		CB1		30	
TOTAL			168	628	656

ALL ITEMS ON THIS PAGE ARE CATEGORY 0020
* QUANTITY SHOWN ELSEWHERE

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TRANSPORTING AND INSTALLING STATE FURNISHED
AUTOSCOPE VIDEO DETECTION SYSTEM

SPV.0105.2235 TRANSPORTING AND INSTALLING STATE FURNISHED AUTOSCOPE VIDEO DETECTION SYSTEM	
LOCATION	L.S.
STH 59 & 101ST STREET	1
TOTAL	1

EMERGENCY VEHICLE PREEMPTION
DETECTOR HEAD INSTALLATION

SPV.0105.2234 EMERGENCY VEHICLE PREEMPTION DETECTOR HEAD INSTALLATION	
LOCATION	L.S.
STH 59 & 101ST STREET	1
TOTAL	1

TRANSPORTING AND INSTALLING TRAFFIC SIGNAL MATERIALS

SPV.0105.2233 TRANSPORTING AND INSTALLING TRAFFIC SIGNAL MATERIALS	
LOCATION	L.S.
STH 59 & 101ST STREET	1
TOTAL	1

SIGNAL MOUNTING HARDWARE

658.5069 SIGNAL MOUNTING HARDWARE	
LOCATION	L.S.
STH 59 & 101ST STREET	1
TOTAL	1

METER BREAKER PEDESTAL

656.0200 METER BREAKER PEDESTAL	
LOCATION**	L.S.
STH 59 & 101ST STREET	1
TOTAL	1

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER
IN THE FIELD

ALL ITEMS ON THIS PAGE ARE CATEGORY 0020
* QUANTITY SHOWN ELSEWHERE

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STH 59 & 101st St
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CONCRETE BASES						
SIGNAL BASE NO.	LOCATION**	654.0101 CONCRETE BASES TYPE 1 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0217 CONCRETE BASES TYPE 9, SPECIAL EACH
CB1	510+88, 70.1' LT					1
SB1	511+03, 67.9' LT	1				
SB2	511+69, 71.0' LT				1	
SB3	511+87, 52.3' LT	1				
SB4	511+87, 11.2' RT				1	
SB5	511+88, 75.5' RT	1				
SB6	511+72, 84.1' RT	1				
SB7	511+63, 87.4' RT	1				
SB8	510+90, 87.5' RT			1		
SB9	510+85, 81.5' RT	1				
SB10	510+64, 70.4' RT	1				
SB11	510+64, 19.4' RT	1				
SB12	510+38, 7.1' LT		1			
SB13	510+66, 52.0' LT				1	
TOTAL		8	1	1	3	1

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	SPV.0105.2230 REMOVE LOOP WIRE & LEAD-IN CABLE L.S.
STH 59 & 101ST STREET	1
TOTAL	1

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.2231 REMOVE TRAFFIC SIGNALS L.S.
STH 59 & 101ST STREET	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200 TEMPORARY TRAFFIC SIGNALS L.S.
STH 59 & 101ST STREET	1
TOTAL	1

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
TOTAL	11

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVE PULL BOX EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
PB18	1
PB19	1
PB20	1
PB21	1
TOTAL*	21

TRANSPORTING TRAFFIC SIGNAL
AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0105.2232 TRANSPORTING TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS L.S.
STH 59 & 101ST STREET	1
TOTAL	1

ALL ITEMS ON THIS PAGE ARE CATEGORY 0020
* QUANTITY SHOWN ELSEWHERE

STH 59 & 101st St
S1172

SIGNAL CABLE AND WIRE				
LOC.	TO	LOC.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.
CB1		SB1		66
CB1		SB2		127
CB1		SB3		203
CB1		SB4		279
CB1		SB5	252	
CB1		SB6	269	
CB1		SB7		389
CB1		SB8		334
CB1		SB9	343	
CB1		SB10		254
CB1		SB11	192	
CB1		SB12		139
CB1		SB13		49
CB1		PB1		
CB1		PB12		
SB1		SB2		
SB2		SB3		
SB2		PB2		
SB2		SB4		
SB3		SB4		
SB3		PB3		
SB4		SB5		
SB4		PB4		
SB5		SB6		
SB5		PB5		
SB6		SB7		
SB7		SB8		
SB7		PB6		
SB8		SB9		
SB8		PB7		
SB8		SB12		
SB9		SB10		
SB9		SB10		
SB10		SB11		
SB10		PB8		
SB11		SB12		
SB11		PB9		
SB12		SB13		
SB12		PB10		
SB13		PB11		
TOTAL			1056	1701

714

2274

SIGNAL CABLE AND WIRE
655.0230
CABLE
TRAFFIC
SIGNAL
5-14 AWG
L.F.

LOC.	To	LOC.	L.F.	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG L.F.
SB1		HEAD 12	19	
SB1		HEAD 14	19	
SB1		HEAD 21	15	
SB2		HEAD 13	60	
SB2		HEAD 22	15	
SB2		LUMINAIRE		144
SB3		HEAD 6	19	
SB3		HEAD 4	19	
SB3		HEAD 23	15	
SB4		HEAD 2	60	
SB4		HEAD 3	70	
SB4		HEAD 5	19	
SB4		HEAD 24	15	
SB4		HEAD 25	15	
SB4		LUMINAIRES		288
SB5		HEAD 26	15	
SB6		HEAD 27	15	
SB7		HEAD 11	19	
SB7		HEAD 15	19	
SB8		HEAD 16	55	
SB9		HEAD 28	15	
SB9		LUMINAIRE		144
SB10		HEAD 1	19	
SB10		HEAD 9	21	
SB10		HEAD 17	15	
SB11		HEAD 18	15	
SB11		HEAD 19	15	
SB12		LUMINAIRES		234
SB13		HEAD 7	50	
SB13		HEAD 8	60	
SB13		HEAD 10	70	
SB13		HEAD 20	15	
TOTAL			778	810

ALL ITEMS ON THIS PAGE ARE CATEGORY 0020
* QUANTITY SHOWN ELSEWHERE

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FOR INFORMATION ONLY

STATE FURNISHED MATERIALS SUMMARY

1	ETHERNET SWITCH 2-PORT
80 L.F.	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 6-CT

INTERCONNECT

REMOVE PULL BOXES

	653.0905 REMOVE PULL BOX EACH
PULL BOX NO.	
I/C PB17	1
I/C PB18	1
I/C PB19	1
I/C PB20	1
I/C PB21	1
I/C PB22	1
TOTAL*	6

ITS DOCUMENTATION

	670.0200 ITS DOCUMENTATION L.S.
LOCATION	
2230-15-70	1
TOTAL	1

CONDUIT

			652.0215 CONDUIT NONMET. 1 1/4-INCH L.F.	652.0225 CONDUIT NONMET. 2-INCH L.F.	652.0605 CONDUIT SPECIAL 2-INCH L.F.
LOC.	TO	LOC.			
EXI/C PB5		I/C CV6		846	
I/C CV6		I/C CV7		2640	912
I/C CV7		I/C PB6			42
I/C PB6		CB1	35		
I/C CV7		EXT1		90	342
TOTAL*			35	3576	1296

INTERCONNECT CABLE

		678.0036 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 36-CT L.F.
LOCATION	TO LOCATION	
EXCV2	I/C CV10	260
I/C CV10	EXICPB3	325
EXICPB3	EXI/C CV5	475
EXI/C CV5	EXICPB5	917
EXICPB5	I/C CV6	368
I/C CV6	I/C CV7	1281
TOTAL		3626
TOT.+15%		4170

FIBER OPTIC SPLICE

	678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH
LOCATION		
EXCV2	1	36
I/C CV7	1	8
TOTAL	2	44

COMMUNICATION SYSTEM TESTING

	678.0500 COMMUNICATON SYSTEM TESTING L.S.
LOCATION	
2230-15-70	1
TOTAL	1

FIELD SYSTEM INTEGRATOR

	670.0100 FIELD SYSTEM INTEGRATOR L.S.
LOCATION	
2230-15-70	1
TOTAL	1

ALL ITEMS ON THIS PAGE ARE CATEGORY 0020
* QUANTITY SHOWN ELSEWHERE

SHEET 1 OF 2

INTERCONNECT

FIBER OPTIC COMMUNICATIONS EQUIPMENT					
**SPV.0060.2232					
	INSTALL FIBER OPTIC COMMUNICATIONS IN CABINET	ST-ST SINGLE MODE FIBER JUMPER 2-CT CONTRACTOR FURNISHED	CAT-5E CABLE 1-METER CONTRACTOR FURNISHED	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 6-CT STATE FURNISHED	ETHERNET SWITCH 2-PORT STATE FURNISHED
LOCATION	EACH	EACH	EACH	L.F.	EACH
CB1(S1172)	1	2	1	80	1
TOTAL	1	2	1	80	1

**PAY ITEM INCLUDES INSTALLATION OF BOTH CONTRACTOR FURNISHED AND STATE FURNISHED MATERIALS

INSTALL CONDUIT INTO EXISTING ITEM	
652.0700.S INSTALL CONDUIT INTO EXISTING ITEM	
STRUCTURE NO.	EACH
EXI/C PB5	1
TOTAL	1

COMMUNICATION VAULTS		
SPV.0060.3010 TRAFFIC SIGNAL INTERCONNECT		
VAULT NO.	LOCATION*	VAULT EACH
I/C CV6	498+75, 2.5' RT	1
I/C CV7	510+55, 7' LT	1
TOTAL		2

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

PULL BOXES		
653.0140 PULL BOXES 24" x 42"		
PULL BOX NO.	LOCATION **	EACH
I/C PB6	510+55, 52.2' LT	1
TOTAL*		1

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL ITEMS ON THIS PAGE ARE CATEGORY 0020
* QUANTITY SHOWN ELSEWHERE

SHEET 2 OF 2

3

LIGHTING REMOVALS					
		204.0195	SPV.0060.2250	SPV.0060.2251	
		REMOVE CONCRETE BASES (EACH)	REMOVING LIGHTING UNITS PROJECT 2230-15-70 (EACH)	LAMP DISPOSAL HIGH INTENSITY DISCHARGE PROJECT 2230-15-70 (EACH)	
CATEGORY	STATION	O/S			
0030	495+56	RT	1	1	1
	495+58	LT	1	1	1
	496+76	LT	1	1	1
	496+83	RT	1	1	1
	497+64	RT	1	1	1
	497+79	LT	1	1	1
	498+80	LT	1	1	1
	498+92	RT	1	1	1
	500+01	LT	1	1	1
	500+06	RT	1	1	1
	501+19	LT	1	1	1
	501+24	RT	1	1	1
	502+09	RT	1	1	1
	502+58	LT	1	1	1
	503+06	RT	1	1	1
	503+84	LT	1	1	1
	504+04	RT	1	1	1
	505+04	RT	1	1	1
	505+07	LT	1	1	1
	506+33	LT	1	1	1
	506+34	RT	1	1	1
	507+57	LT	1	1	1
	507+61	RT	1	1	1
	508+36	LT	1	1	1
	508+39	RT	1	1	1
	509+74	RT	1	1	1
	509+74	LT	1	1	1
	510+51	MED	1	1	1
	7+62	RT	1	-	-
TOTAL			29	28	28

LIGHTING CONDUIT AND WIRE				
		652.0225	652.0615	655.0630
		CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LF)	CONDUIT 3-INCH SPECIAL (LF)	ELECTRICAL WIRE LIGHTING 4 AWG (LF)
CATEGORY	FROM - TO			
0030	SL138 - LPB43	25	-	364
	LPB43 - LPB44	-	125	1,040
	LPB44 - SL139	10	-	168
	LPB44 - SL140	145	-	624
	SL140 - SL141	159	-	676
	SL141 - SL142	170	-	720
	SL142 - LPB45	50	-	244
	LPB45 - LPB46	100	-	448
	LPB46 - SL143	23	-	136
	SL143 - SL144	166	-	704
	SL144 - LPB47	22	-	132
	LPB47 - LPB48	94	-	424
	LPB48 - SL145	52	-	252
	SL145 - SL146	166	-	704
	SL146 - LPB49	26	-	148
	LPB49 - LPB50	118	-	520
	LPB50 - SL147	23	-	136
	SL147 - LPB51	15	-	-
	LPB51 - LPB52	57	-	-
	LPB51 - LPB53	59	-	-
	LPB400 - LPB401	-	330	-
	LPB402 - LPB403	-	225	-
	LPB403 - SL400	-	110	-
	SL400 - EXISTING	-	12	-
TOTAL		1,480	802	7,440

LIGHTING PULLBOXES					
		653.0140			
		PULLBOXES STEEL 24X42-INCH (EACH)			
CATEGORY	PULLBOX NUMBER	STATION	OFFSET (FT)	R/L	
0030	LPB43	494+67	6.9'	LT	1
	LPB44	495+89	7.2'	RT	1
	LPB45	501+07	7.0'	LT	1
	LPB46	502+04	7.0'	RT	1
	LPB47	504+12	7.0'	LT	1
	LPB48	505+05	7.0'	RT	1
	LPB49	507+46	7.3'	LT	1
	LPB50	508+63	9.4'	RT	1
	LPB51	509+00	8.3'	RT	1
	LPB52	509+00	65.0'	RT	1
	LPB53	509+00	50.6'	LT	1
	LPB400	511+04	173'	LT	1
	LPB401	511+06	120'	RT	1
	LPB402	511+50	106'	LT	1
	LPB403	511+55	117'	RT	1
TOTAL					15

3

STREET LIGHTING								
					654.0105	SPV.0060.2254	SPV.0060.2288	655.0610
					CONCRETE BASES TYPE 5 (EACH)	LIGHTING UNIT TWIN (EACH)	LUMINAIRES UTILITY LED CATEGORY B (EACH)	ELECTRICAL WIRE LIGHTING 12 AWG (LF)
CATEGORY	LIGHT NUMBER	STATION	OFFSET (FT)	R/L				
0030	SL139	495+80	7.0'	RT	1	1	2	320
	SL140	497+33	7.0'	RT	1	1	2	320
	SL141	498+89	0.0'	RT	1	1	2	320
	SL142	500+57	7.0'	LT	1	1	2	320
	SL143	502+26	7.0'	RT	1	1	2	320
	SL144	503+91	7.0'	LT	1	1	2	320
	SL145	504+56	7.0'	RT	1	1	2	320
	SL146	507+21	7.0'	LT	1	1	2	320
	SL147	508+86	9.2'	RT	1	1	2	320
	SL400	7+63	25.5'	RT	1	-	-	-
TOTAL					10	9	18	2,880

UTILITY LINE OPENING (ULO)		
SPV.0060.2255		
CATEGORY	LOCATION	(EACH)
0030	UNDISTRIBUTED	5
TOTAL		5

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ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

NON PARTICIPATING			CATEGORY CODE 0040		2230-15-70 STH 59	
SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE			REMARKS / NEW SIGN LOCATION
			W	x	H	
			[IN.]	x	[IN.]	
1001	M1-94H(MOD)	[59] W GREENFIELD AVE	102	x	18	MOUNT ON MAST ARM
1002	M1-94H(MOD)	S 101 ST	48	x	18	MOUNT ON MAST ARM
1003	M1-94H(MOD)	[59] W GREENFIELD AVE	102	x	18	MOUNT ON MAST ARM
1004	M1-94H(MOD)	S 101 ST	48	x	18	MOUNT ON MAST ARM
TOTALS			37.500			--

ADJUST WATER VALVE				
SPV.0060.5011				
CATEGORY	STATION	O/S	LOCATION	ADJUST WATER VALVE (EACH)
0010	8+68.6	9'	RT	1
	9+40.5	4.5'	RT	1
	10+60.0	7.5'	LT	1
	10+99.3	2'	LT	1
	20+60.0	4.5'	LT	1
	20+79.6	0.5'	RT	1
	30+61.5	4.5'	LT	1
	30+77.7	-	-	1
	40+64.4	-	-	1
	40+68.5	5'	LT	1
	495+46.6	28'	RT	1
	495+46.6	37'	LT	1
	496+88.6	31'	RT	1
	501+05.5	56.5'	RT	1
	501+27.0	14'	RT	1
	501+27.0	37'	LT	1
	501+57.7	27'	LT	1
	501+66.9	46.5'	RT	1
	501+91.1	39.5'	LT	1
	502+30.5	43.5'	RT	1
	503+37.0	41.5'	RT	1
	503+74.5	40.5'	RT	1
	504+36.8	40'	LT	1
	505+23.3	41'	RT	1
	506+36.8	40.5'	RT	1
	507+66.7	40'	LT	1
	507+92.8	26'	LT	1
	508+30.5	39'	RT	1
	508+26.5	41'	RT	1
	508+69.1	40.5'	RT	1
	509+47.5	40.5'	RT	1
	510+92.8	40'	LT	1
	511+05.8	39'	RT	1
PROJECT TOTALS				33

MISCELLANEOUS WATER ITEMS							
SPV.0060.2277 SPV.0060.2276 SPV.0060.2275 SPV.0060.2287							
HYDRANT CUT-IN ON 6" W.M. (EACH) HYDRANT CUT-IN ON 8" W.M. (EACH) HYDRANT CUT-IN ON 12" W.M. (EACH) SPRINKLER ASSEMBLY (EACH)							
CATEGORY	STATION	LOCATION					
0010	8+67.6	26'	RT	-	1	-	-
	10+99.3	23.5'	RT	1	-	-	-
	500+09	4'	LT	-	-	-	1
	508+26.5	60.6'	RT	-	-	1	-
PROJECT TOTAL				1	1	1	1

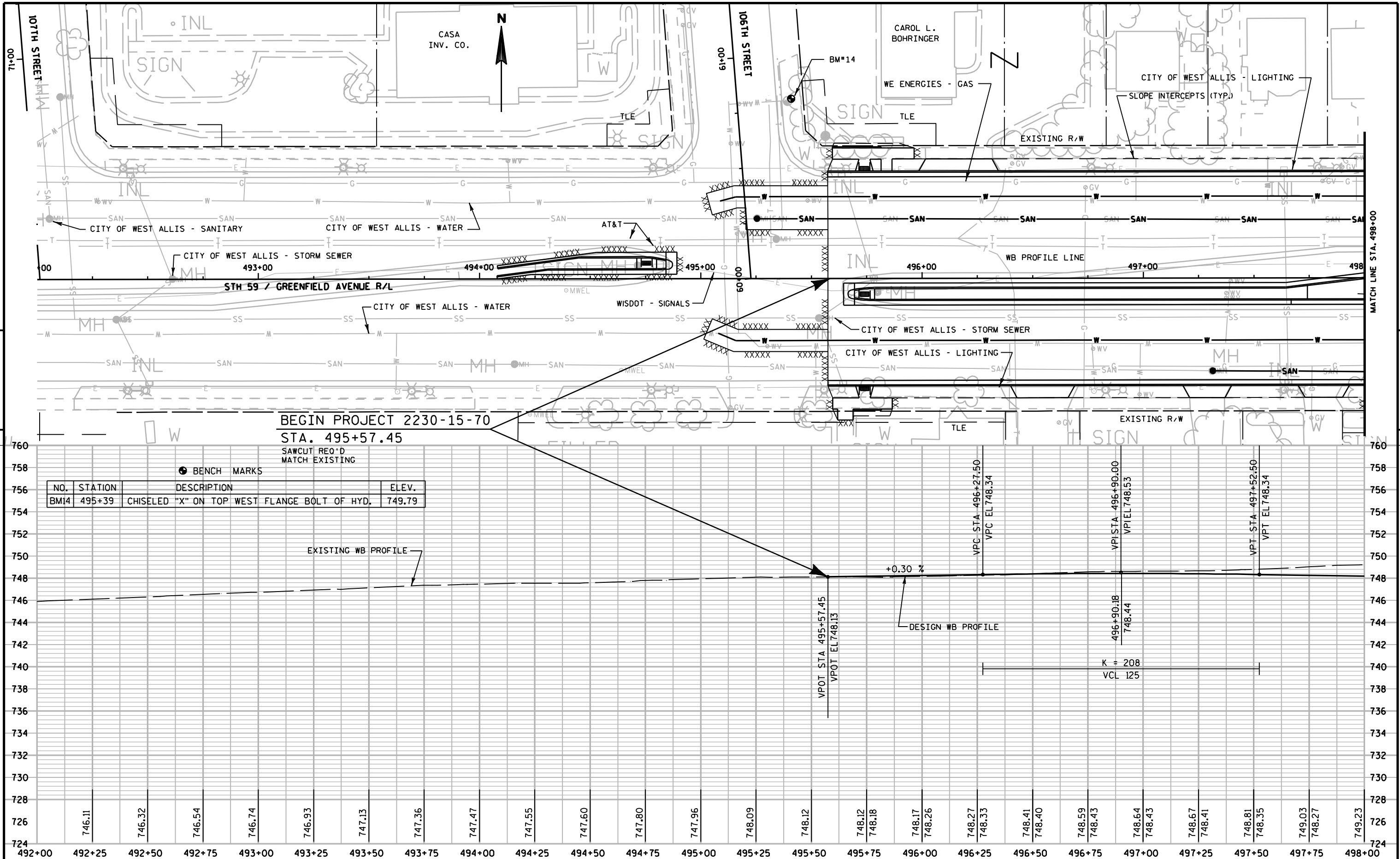
WATER MAIN RELAY										
SPV.0090.2271 SPV.0090.2270 SPV.0060.2271 SPV.0060.2270 SPV.0060.2273 SPV.0060.2272 SPV.0060.2274										
WATER MAIN RELAY D.I.W.M. CL 53 R.G.J. 8-INCH (LF) WATER MAIN RELAY D.I.W.M. CL 53 R.G.J. 12-INCH (LF) WATER MAIN CONNNECTION 8-INCH (EACH) WATER MAIN CONNNECTION 12-INCH (EACH) VALVE 8-INCH (EACH) VALVE 12-INCH (EACH) HYDRANT (EACH)										
CATEGORY	FROM STATION	O/S	TO STATION	O/S						
0010	495+08.7	35' LT	501+44.1	39.5' LT	624	-	2	-	2	-
	495+07.8	25' RT	501+57.7	14' RT	-	648	-	2	-	2
PROJECT TOTALS					624	648	2	2	2	1

WATER SERVICES									
SPV.0060.2281 SPV.0060.2280 SPV.0060.2279 SPV.0060.2278 SPV.0090.2277 SPV.0090.2278 SPV.0090.2276									
RECONNECT WATER SERVICE COPPER 3/4-INCH (EACH) RECONNECT WATER SERVICE COPPER 1-INCH (EACH) RECONNECT WATER SERVICE COPPER 1 1/2-INCH (EACH) RECONNECT WATER SERVICE COPPER 2-INCH (EACH) WATER SERVICE COPPER 1-INCH (LF) WATER SERVICE COPPER 1-1/2-INCH (LF) WATER SERVICE COPPER 2-INCH (LF) COMMENTS									
CATEGORY	STATION	O/S	LOCATION						
0010	495+52.2	28'	RT	-	1	-	-	-	
	495+93.9	37'	LT	-	-	1	-	-	
	496+39.4	28'	RT	-	-	-	1	-	
	496+67.9	37'	LT	1	-	-	-	-	LATERAL FOR FUTURE USE
	496+75.5	28'	RT	-	-	-	1	-	
	496+98.4	28'	RT	1	-	-	-	-	
	496+99.9	37'	LT	1	-	-	-	-	
	497+37.5	28'	RT	-	-	1	-	-	
	497+58.9	37'	LT	1	-	-	-	-	
	497+61.7	28'	RT	-	1	-	-	-	
	497+96.3	37'	LT	-	-	-	-	-	
	498+13.4	28'	RT	1	-	-	-	-	
	500+09	4'	LT	-	-	-	-	-	
	500+09	28'	RT	-	-	-	-	35	
	500+27.9	37'	LT	-	-	-	21	-	
	501+05.5	14'	RT	-	-	-	-	-	47
PROJECT TOTALS				5	2	2	2	42	35 47

SANITARY SEWER STRUCTURES												
SPV.0200.2270 SPV.0200.2271 SPV.0200.2272 SPV.0060.2283 SPV.0060.2284 SPV.0060.2285												
CATEGORY	STUCTURE NUMBER	STATION	O/S	LOCATION	SANITARY MANHOLE 3'-6" DIA. (VF)	SANITARY O.D. MANHOLE 3'-6" DIA. (VF)	REPLACE SANITARY MANHOLE 3'-6" DIA. (VF)	ABANDON SANITARY MANHOLE (EACH)	INSTALL INTERNAL SANITARY MANHOLE SEALS (EACH)	ADJUST SANITARY MANHOLE FRAMES (EACH)	RIM ELEV.	STRUCTURE BOTTOM ELEV.
0010	S1	495+25.7	28'	LT	-	-	-	-	1	1	-	-
	S2	498+25.7	28'	LT	10.25	-	-	-	1	1	167.65	157.40
	S3	501+67.7	28'	LT	-	12.45	-	-	1	1	171.40	158.95
	S4	504+69.4	28'	LT	10.60	-	-	-	1	1	180.45	169.85
	S5	30+86.1	2'	RT	9.88	-	-	-	1	1	180.60	170.72
	S6	508+00	28'	LT	11.40	-	-	-	1	1	188.30	176.90
	S7	511+32.1	28'	LT	11.10	-	-	-	1	1	199.55	188.45
	S8	513+25.5	28'	LT	13.20	-	-	-	1	1	208.45	195.25
	S9	514+00.9	28.5'	LT	-	-	-	1	-	-	-	-
	S10	497+32	42'	RT	11.47	-	-	-	1	1	167.95	156.48
	S11	500+51.6	42'	RT	11.70	-	-	-	1	1	169.05	157.35
	S12	503+81	23'	RT	-	-	-	-	1	1	177.50	165.90
	S13	506+99.6	23'	RT	12.35	-	-	-	1	1	186.60	174.25
	S14	508+64.4	21.5'	RT	-	-	11.76	-	1	1	-	-
	S15	510+44.3	21'	RT	-	-	12.92	-	1	1	-	-
	S16	511+23.8	21'	RT	-	-	12.27	-	1	1	-	-
	S17	513+75.9	21'	RT	-	-	-	1	-	-	-	-
PROJECT TOTALS					101.95	12.45	36.95	2	15	15		

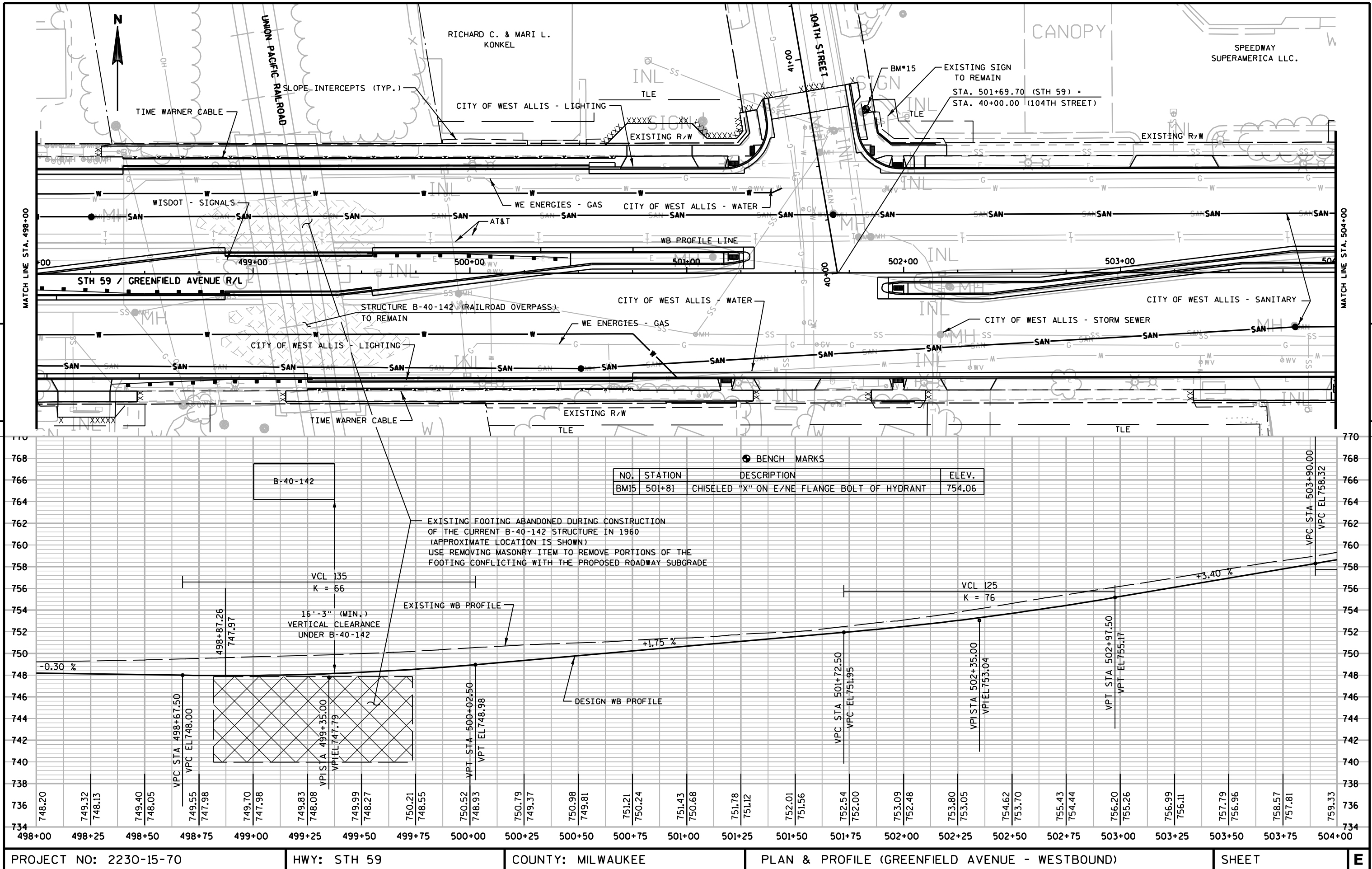
SANITARY SEWER PIPES						
SPV.0090.2275 SPV.0090.2274 SPV.0090.2273 SPV.0090.2272						
		SANITARY SEWER RELAY SDR 35 PVC SP	SANITARY SEWER RELAY SDR 35 PVC SP	SANITARY SEWER RELAY SDR 35 PVC SP	SANITARY SEWER RELAY SDR 35 PVC SP	
CATEGORY	DOWNSTREAM STRUCTURE	UPSTREAM STRUCTURE	8-INCH (LF)	10-INCH (LF)	12-INCH (LF)	15-INCH (LF)
0010	S1	S2	-	-	300	-
	S2	S3	-	-	342	-
	S3	S4	301.5	-	-	-
	S5	S4	-	58	-	-
	S4	S6	330.5	-	-	-
	S6	S7	332	-	-	-
	S7	S8	193.5	-	-	-
	S10	S11	-	-	-	319.5
	S11	S12	-	330	-	-
	S12	S13	-	318.5	-	-
PROJECT TOTALS			1157.5	706.5	642	319.5

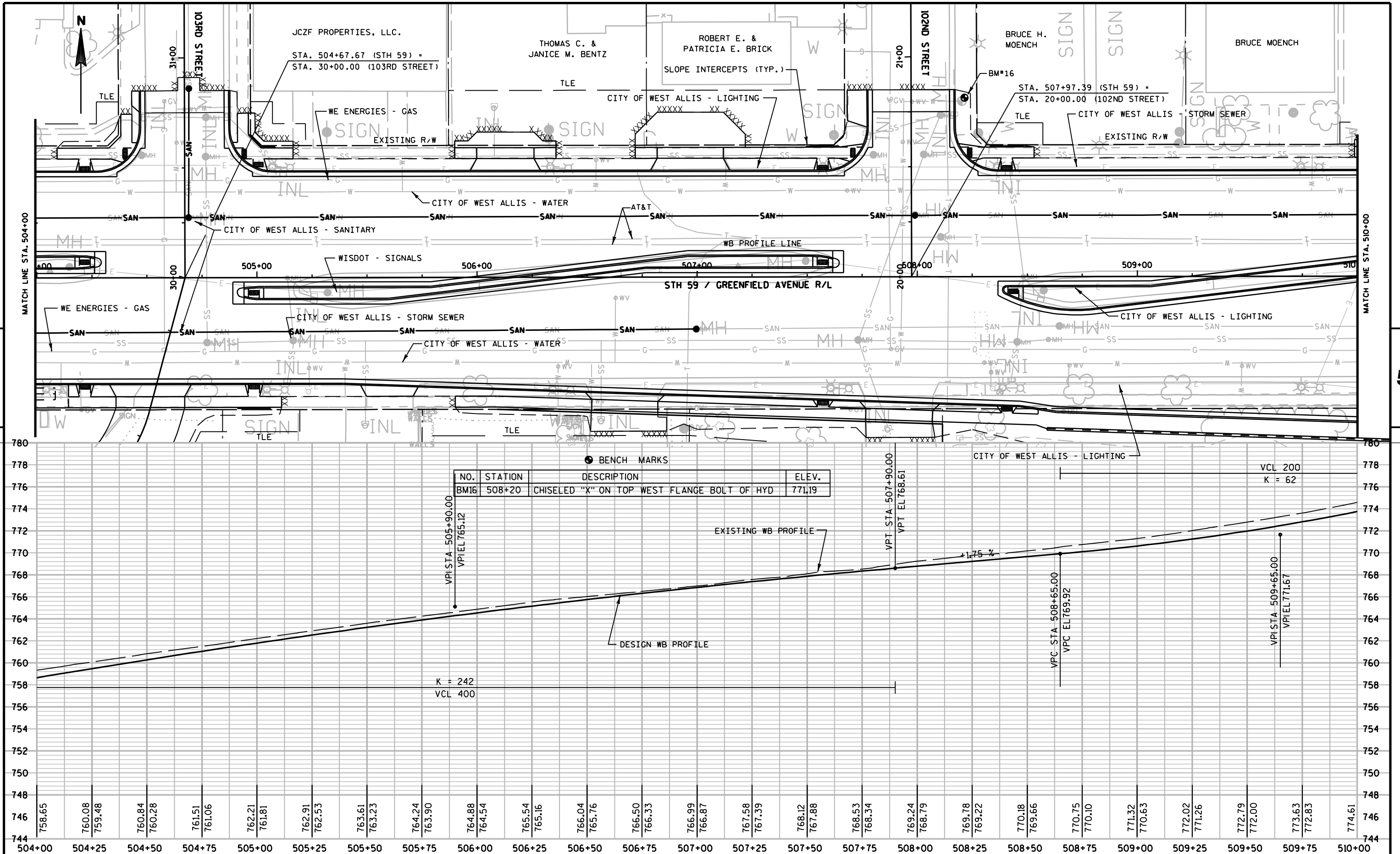
BUILDING SANITARY SEWER					
SPV.0060.2286					
RECONNECT BUILDING SANITARY SEWER 6-INCH (EACH)					
CATEGORY	STATION	O/S	LOCATION		COMMENTS
0010	495+91.2	28'	LT	1	LATERAL FOR FUTURE USE
	496+76.7	28'	LT	1	
	497+18.7	28'	LT	1	
	497+54.7	28'	LT	1	
	497+68.7	42'	RT	1	
	498+03.2	28'	LT	1	SEE NOTE #3 ON PLAN S-1469
	498+17.2	42'	RT	1	
	500+41.0	28'	LT	1	
	501+27.2	37.7'	RT	1	
	501+81.4	34.5'	RT	1	
	502+65.1	29.8'	RT	1	SEE NOTE #3 ON PLAN S-1469
	504+19.6	23'	RT	1	
	505+43.4	23'	RT	1	
	506+03.6	23'	RT	1	
	506+51.5	23'	RT	1	
	506+56.5	28'	LT	1	SEE NOTE #3 ON PLAN S-1469
	506+74.6	23'	RT	1	
	507+44.5	28'	LT	1	
	508+99.5	28'	LT	1	
	509+81.5	28'	LT	1	
	513+15.5	28'	LT	1	
PROJECT TOTALS				21	

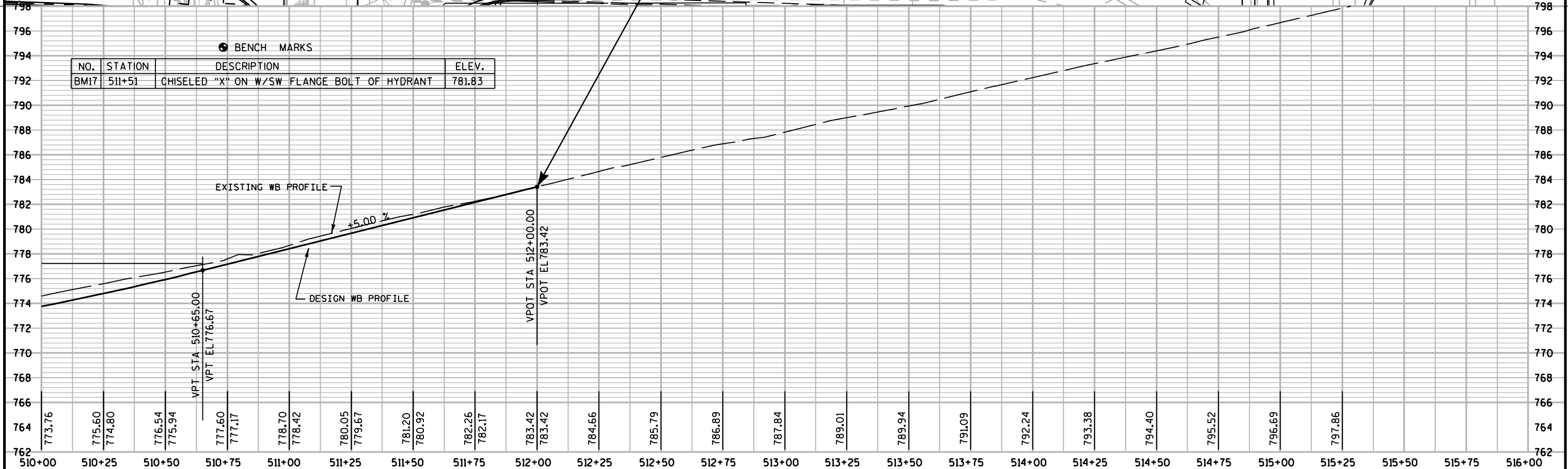
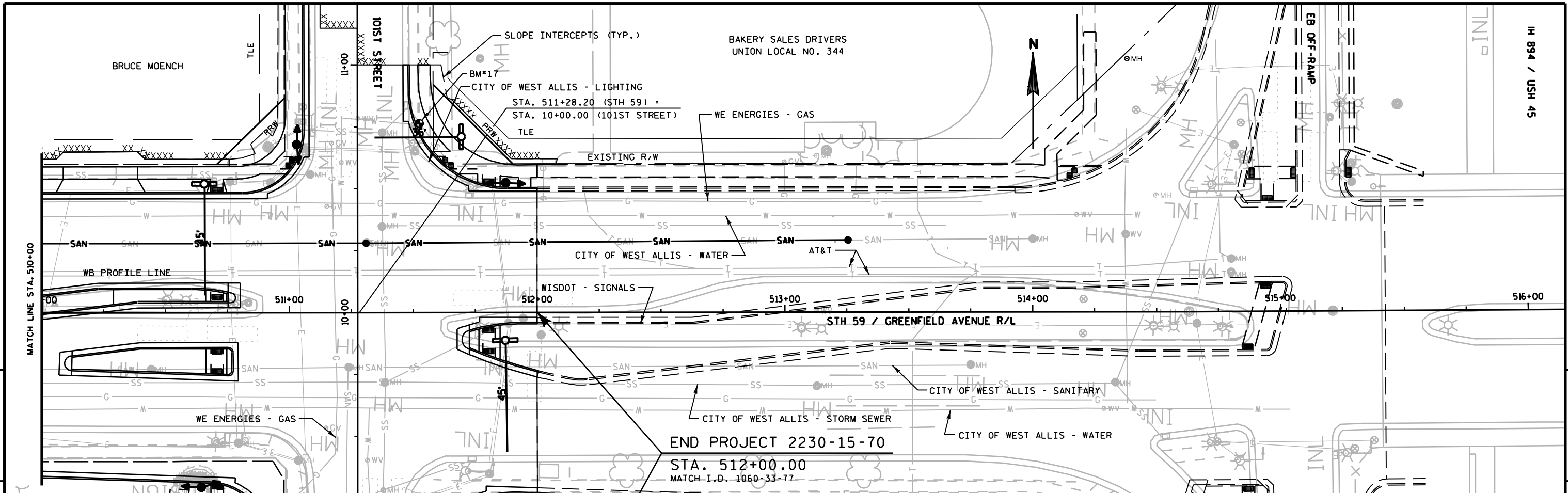


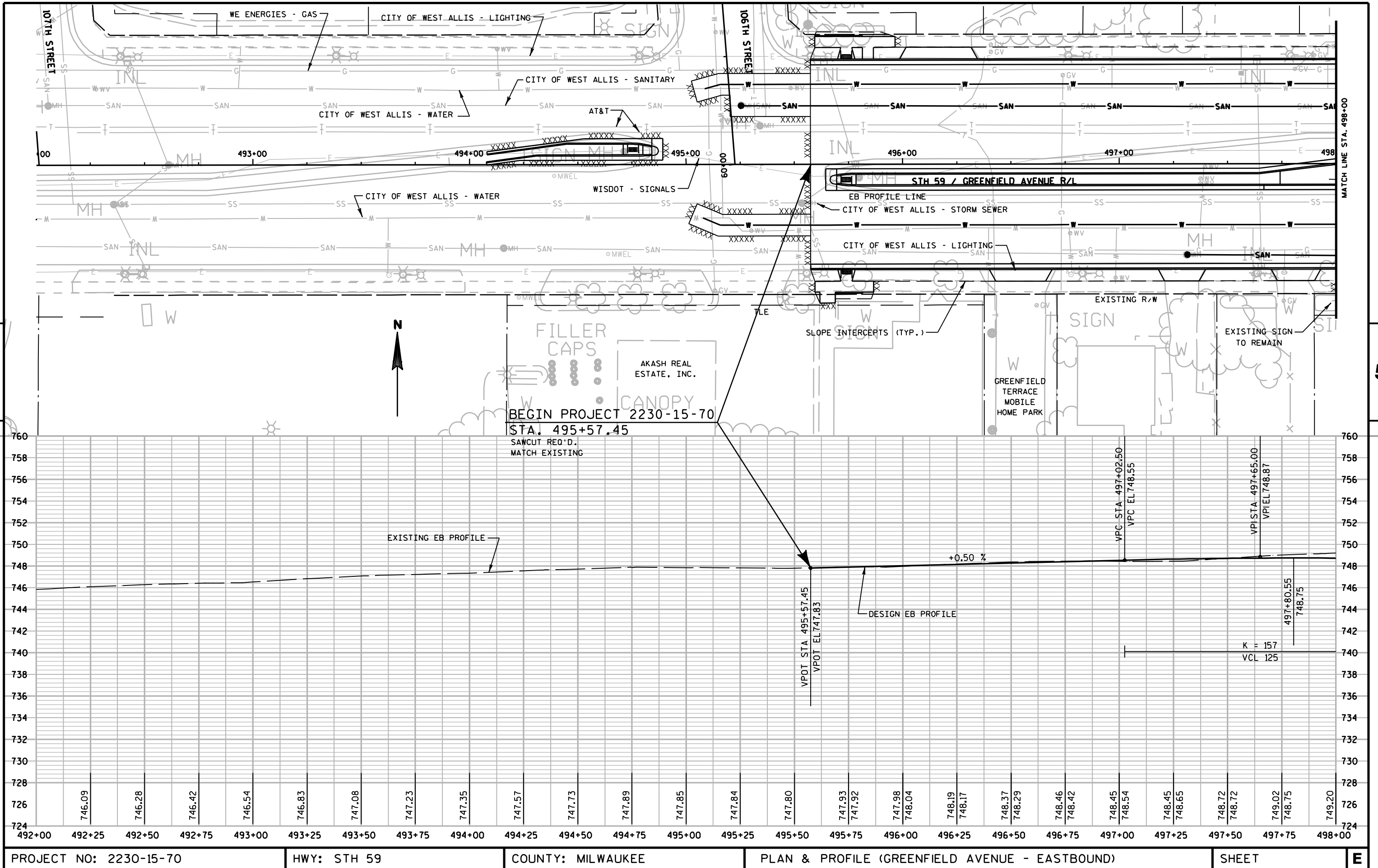
BEGIN PROJECT 2230-15-70
STA. 495+57.45
SAWCUT REQ'D
MATCH EXISTING

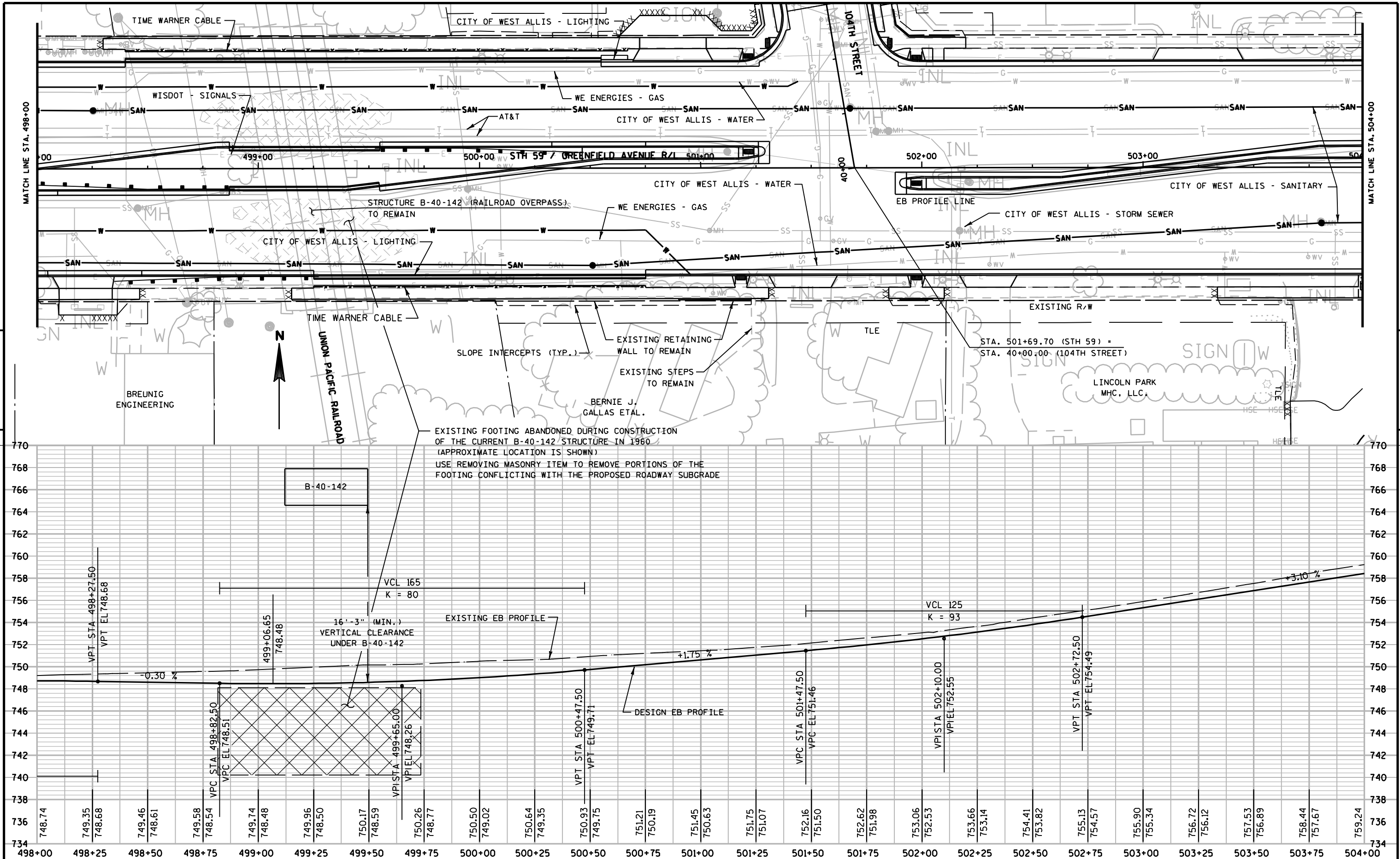
NO.	STATION	DESCRIPTION	ELEV.
BM14	495+39	CHISELED "X" ON TOP WEST FLANGE BOLT OF HYD.	749.79

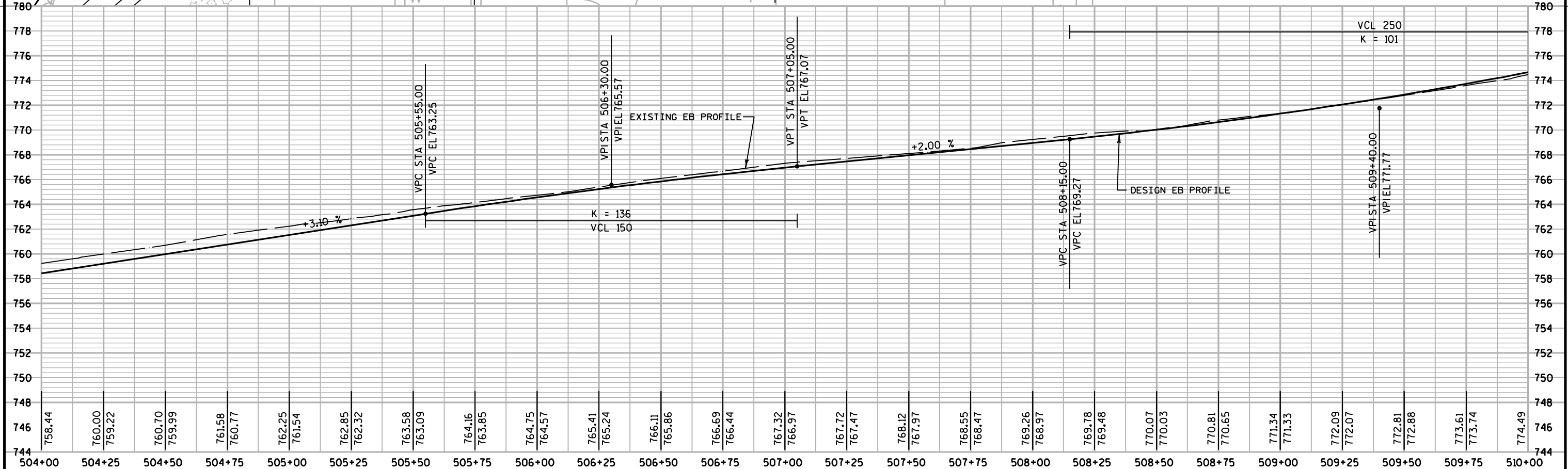
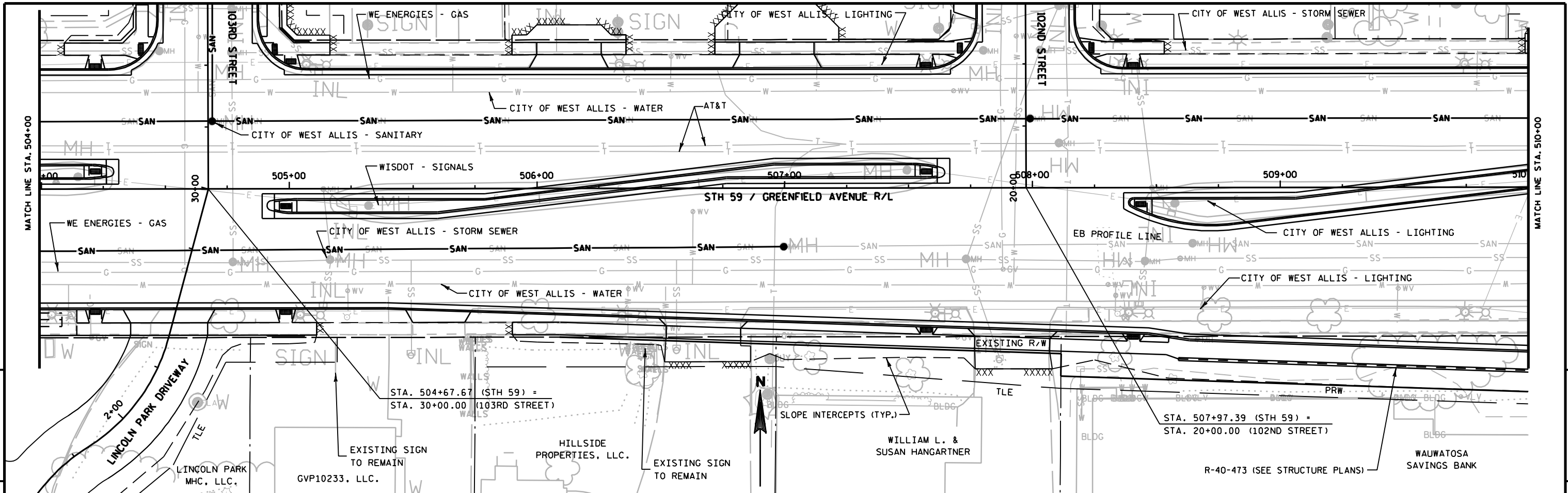












PROJECT NO: 2230-15-70	HWY: STH 59	COUNTY: MILWAUKEE	PLAN & PROFILE (GREENFIELD AVENUE - EASTBOUND)	SHEET	E
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