

PROJECT DESCRIPTION

RESURFACING OF APPROXIMATELY 625 FEET OF E. 59TH ST. FROM EUCLID AVE TO CHESTER AVE. WORK WILL INCLUDE MILLING OF EXISTING ASPHALT AND REPLACEMENT, REMOVING AND REPLACING THE SOUTHWEST CURB RETURN AT CHESTER AVE. AND E. 59TH ST., THE ADDITION OF ON STREET PARKING, FULL AND PARTIAL DEPTH PAVEMENT REPAIRS, UTILITY CASTING ADJUSTMENTS, AND PAVEMENT MARKING THROUGHOUT THE PROJECT LENGTH.

PROJECT EARTH DISTURBED AREA: < 1 ACRE
 EST. CONTRACTOR EARTH DISTURBED AREA: N/A
 NOTICE OF INTENT EARTH DISTURBED AREA: N/A
 NOT REQUIRED

2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING OF E. 59TH STREET BETWEEN EUCLID AVENUE AND CHESTER AVENUE. PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

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CITY OF CLEVELAND

MAYORS OFFICE OF CAPITAL PROJECTS

DIVISION OF ENGINEERING AND CONSTRUCTION

E. 59TH ST. REHABILITATION (EUCLID AVE. TO CHESTER AVE.)

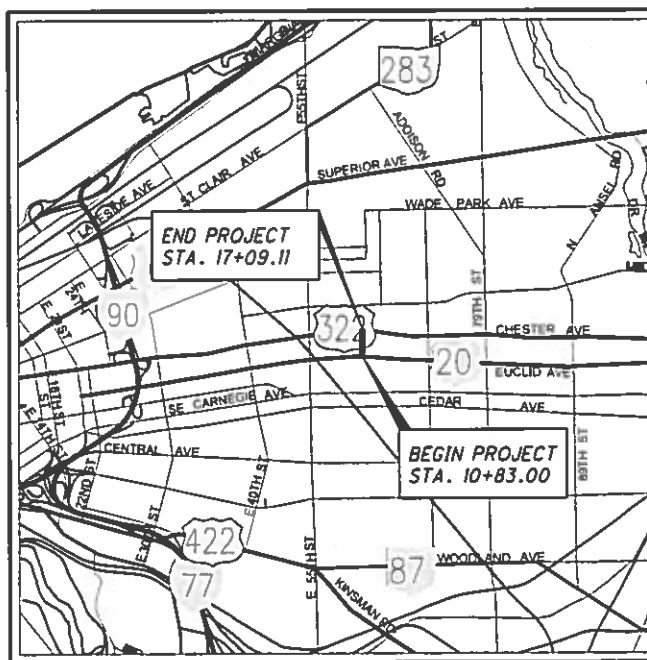
FRANK G. JACKSON
MAYOR

KEVIN J. KELLEY
PRESIDENT OF COUNCIL

MATTHEW L. SPRONZ, P.E.
MAYOR'S OFFICE OF CAPITAL PROJECTS

JOE JONES
COUNCIL MEMBER OF WARD 7

STAGE 2 - JANUARY 19, 2018



LOCATION MAP

LATITUDE: 41° 30' 19.64" N LONGITUDE: 81° 38' 57.34" W

SCALE IN MILES



APPROVED _____
 DATE _____ RICHARD J. SWITALSKI, P.E.
 ADMINISTRATION BUREAU MANAGER
 DIVISION OF ENGINEERING & CONSTRUCTION

APPROVED _____
 DATE _____ FRANK KEEHL, P.E.
 PROJECT MANAGER
 DIVISION OF ENGINEERING & CONSTRUCTION

APPROVED _____
 DATE _____ ROBERT MAVEC, COMMISSIONER
 DIVISION OF TRAFFIC ENGINEERING

APPROVED _____
 DATE _____ THOMAS P. BOYER, P.E., DESIGN SECTION CHIEF
 DIVISION OF ENGINEERING AND CONSTRUCTION

APPROVED _____
 DATE _____ GREG ESBER, P.S., CHIEF SURVEYOR
 DIVISION OF ENGINEERING AND CONSTRUCTION

APPROVED _____
 DATE _____ KHALIL EWAS, P.E. CONSTRUCTION SECTION CHIEF
 DIVISION OF ENGINEERING AND CONSTRUCTION

APPROVED _____
 DATE _____ DAVID EBERSOLE, DIRECTOR
 DEPARTMENT OF ECONOMIC DEVELOPMENT

APPROVED _____
 DATE _____ ALEX MARGEVICIUS COMMISSIONER
 CLEVELAND WATER DEPARTMENT

APPROVED _____
 DATE _____ IVAN HENDERSON COMMISSIONER
 CLEVELAND PUBLIC POWER

APPROVED _____
 DATE _____ RACHID ZOGHAIB COMMISSIONER
 CLEVELAND WATER POLLUTION CONTROL

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

Call Before You Dig
1-800-362-2764

(Non-members must be called directly)

OIL & GAS PRODUCERS
UNDERGROUND PROTECTION SERVICE
1-800-925-0988

PLANS PREPARED BY:

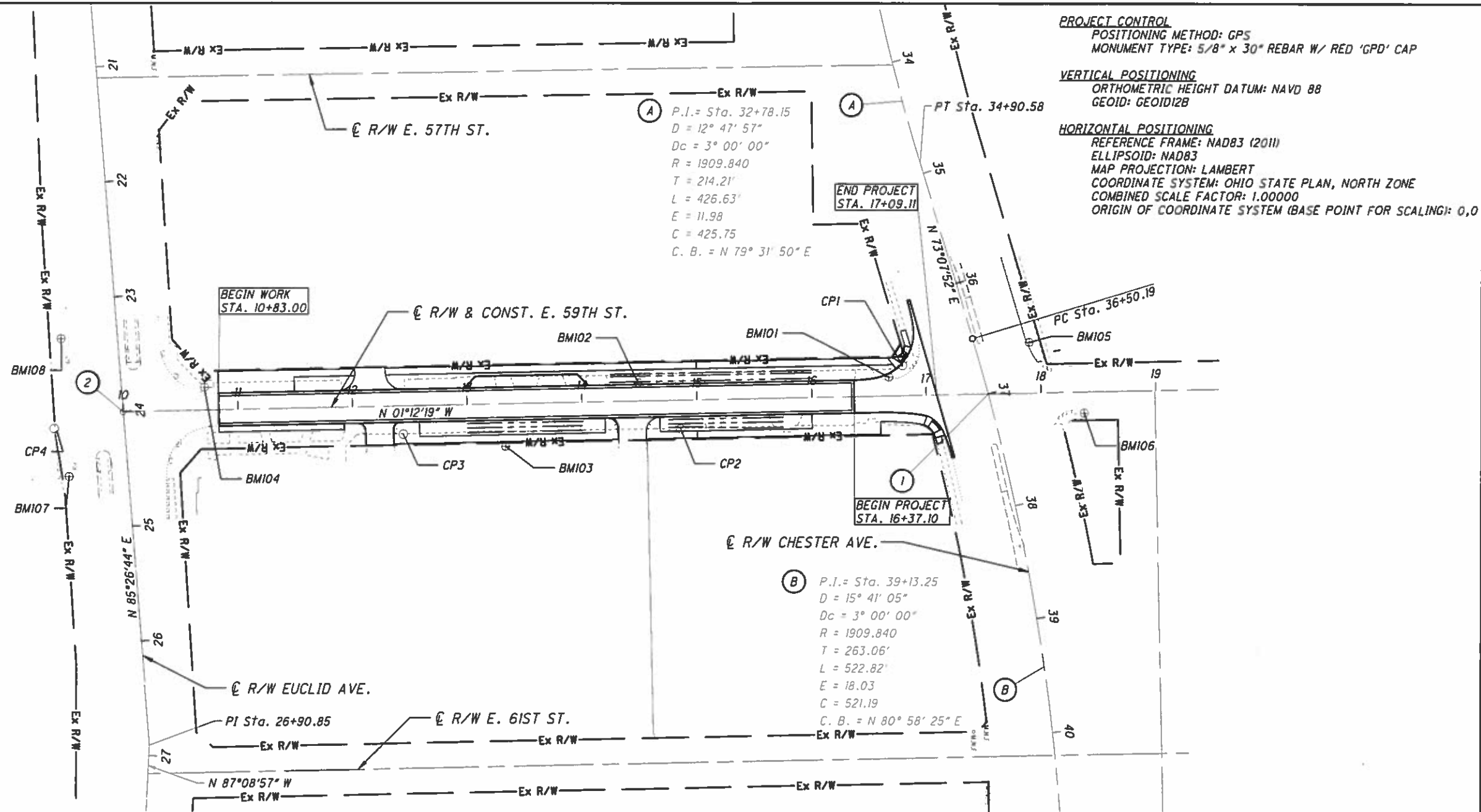


ENGINEERS SEAL	STANDARD CONSTRUCTION DRAWINGS	CITY OF CLEVELAND SCDs	SUPPLEMENTAL SPECIFICATIONS
	BP-2.1 07/17/15 MT-95.30 07/21/17	SEE SHEETS 22-60	800 01/19/18
	BP-2.2 07/18/08 MT-105.10 07/19/13		821 04/20/12
	BP-2.5 07/19/13 MT-110.10 07/19/13		832 01/17/14
			921 04/20/12
	BP-3.1 07/18/14 TC-41.20 10/18/13		
	BP-5.1 07/19/13 TC-52.20 07/21/17		
	BP-7.1 07/18/14		
	DM-1.1 07/21/17		
	DM-1.2 01/18/13		
	DM-4.3 01/15/16		
	DM-4.4 01/15/16		

SIGNED: _____
 DATE: _____

FEDERAL PROJECT NO. N/A
 PID NO. N/A
 CITY PROJECT NO. M-1188
 RAILROAD INVOLVEMENT N/A
 CUY E. 59TH ST. REHABILITATION
1/61

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PROJECT CONTROL
 POSITIONING METHOD: GPS
 MONUMENT TYPE: 5/8" x 30" REBAR W/ RED 'GPD' CAP

VERTICAL POSITIONING
 ORTHOMETRIC HEIGHT DATUM: NAVD 88
 GEOID: GEOID12B

HORIZONTAL POSITIONING
 REFERENCE FRAME: NAD83 (2011)
 ELLIPSOID: NAD83
 MAP PROJECTION: LAMBERT
 COORDINATE SYSTEM: OHIO STATE PLAN, NORTH ZONE
 COMBINED SCALE FACTOR: 1.00000
 ORIGIN OF COORDINATE SYSTEM (BASE POINT FOR SCALING): 0,0

CALCULATED 0
 DSM
 CHECKED
 DEN
 HORIZONTAL SCALE IN FEET
 1000

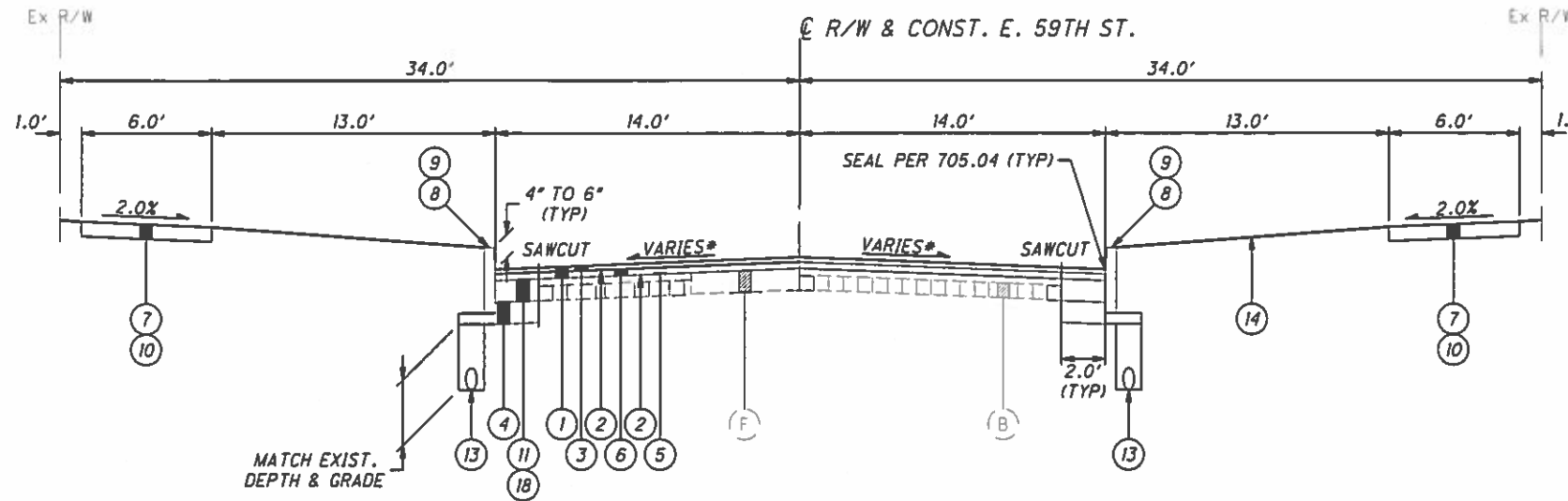
**SCHEMATIC PLAN
 BEGIN WORK TO END WORK**

REFERENCE POINT/BENCHMARK TABLE

POINT NUMBER	NORTHING	EASTING	ELEV.	STATION	OFFSET	DESCRIPTION
1	671449.4338	2201504.1705	-	-	-	STA. 17+53.93 E. E. R/W & CONST. E. 59TH ST./ STA. 37+00.00 E. R/W CHESTER AVE.
2	670695.6658	2201520.0284	-	-	-	STA. 10+00.00 E. R/W & CONST. E. 59TH ST./STA. 24+00.00 E. R/W EUCLID AVE.
CP1	671374.9820	2201479.5390	662.03	16+80.02	26.19' LT	CNPT - 5/8" REBAR WITH ALUM CAP
CP2	671181.4610	2201534.7320	664.42	14+85.38	24.92' RT	CNPT - 5/8" REBAR WITH ALUM CAP
CP3	670939.7930	2201539.5320	664.55	12+43.66	24.63' RT	CNPT - 5/8" REBAR WITH ALUM CAP
CP4	670636.2400	2201534.5820	664.7	24+09.79 (E. R/W EUCLID AVE.)	60.39' RT	CNPT - 5/8" REBAR WITH ALUM CAP
BM101	671363.3560	2201489.5780	664.93	16+68.18	16.40' LT	'X' CUT ON SOUTH BONNET BOLT
BM102	671144.4400	2201494.6530	666.66	14+49.21	15.93' LT	'X' CUT ON EAST BONNET BOLT
BM103	671028.9310	2201550.0590	668.52	13+32.56	37.03' RT	'X' CUT ON LPOLE BASE
BM104	670766.2890	2201498.8240	664.88	10+71.05	19.71' LT	'X' CUT ON PAD
BM105	671485.2730	2201459.4570	662.14	36+67.19 (E. R/W CHESTER AVE.)	46.70' LT	MAGS SET IN LIGHT POLE 544912
BM106	671532.7860	2201520.5800	662.48	37+36.47 (E. R/W CHESTER AVE.)	76.38' LT	M' IN MUELLER ON HYDRANT FLANGE
BM107	670649.0420	2201576.4140	664.45	24+52.51 (E. R/W EUCLID AVE.)	50.95' RT	'X' CUT ON SW CORNER OF SIGNAL PAD
BM108	670642.0250	2201456.4130	667.16	23+32.33 (E. R/W EUCLID AVE.)	48.42' RT	'X' CUT ON EAST BONNET BOLT

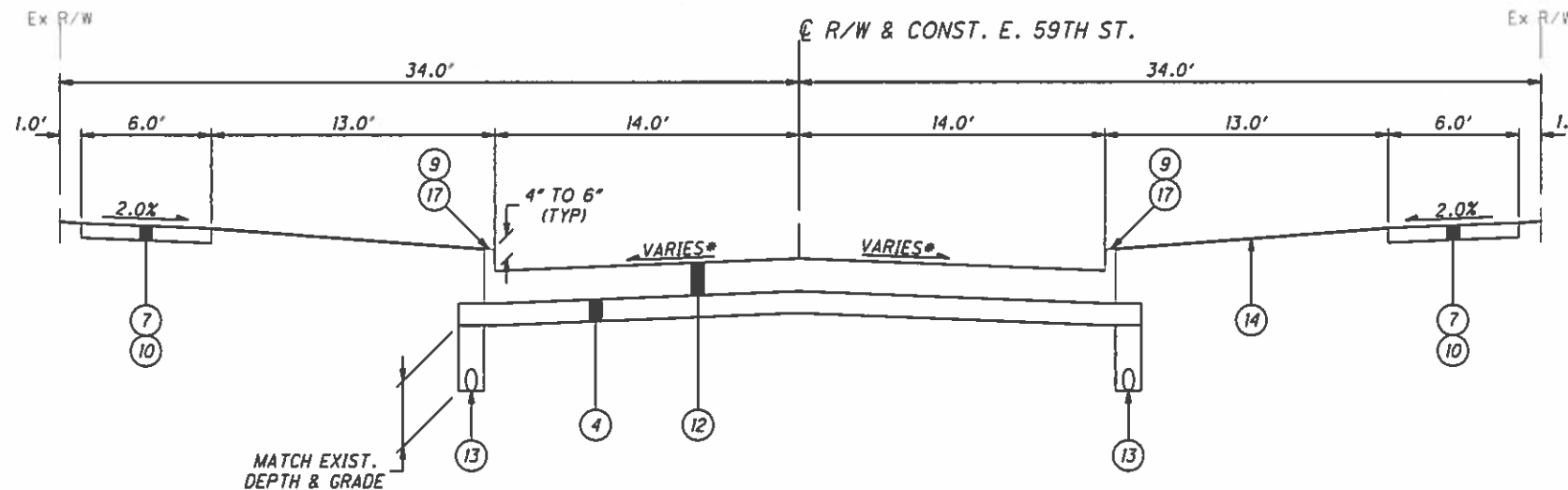
CUY E. 59TH ST. REHABILITATION

FOR PAVEMENT REPAIR DETAILS, SEE SHEET 5
 FOR ON STREET PARKING DETAIL, SEE SHEET 4
 FOR ASPHALT TO CONCRETE JOINT DETAIL, SEE SHEET 4



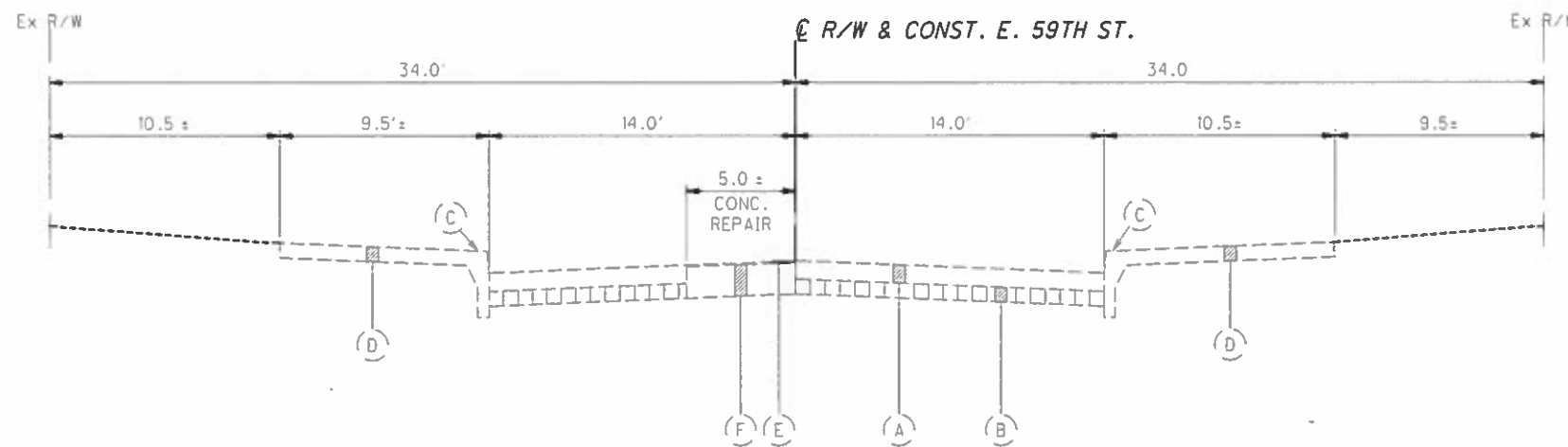
E. 59TH ST. - PROPOSED ASPHALT TYPICAL SECTION

STA. 10+83.00 TO 16+37.10 = 554.10 LF



E. 59TH ST. - PROPOSED CONCRETE TYPICAL SECTION

STA. 16+37.10 TO 17+09.11 = 72.01 LF



E. 59TH ST. - PROPOSED TYPICAL SECTION

STA. 10+83.00 TO 17+09.11 = 626.11 LF

PROPOSED LEGEND

- ① ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE AND CONCRETE, AS PER PLAN (T = 3')
- ② ITEM 407 - TACK COAT (REFER TO ODOT CMS TABLE 407.06-11)
- ③ ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, AS PER D-29
- ④ ITEM 304 - 6" AGGREGATE BASE, AS PER PLAN
- ⑤ ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (0" MIN TO 1.75" MAX), PG64-22 AS DIRECTED BY THE ENGINEER, AS PER D-29
- ⑥ ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22, AS PER D-29
- ⑦ ITEM 608 - 4" CONCRETE WALK, AS PER D-23, D-24 AND D-76
- ⑧ ITEM 609 - CURB, TYPE 6, AS PER D-24
- ⑨ ITEM 202 - CURB REMOVED, AS PER PLAN
- ⑩ ITEM 202 - WALK REMOVED, AS PER PLAN
- ⑪ ITEM 302 - 6" ASPHALT CONCRETE BASE, PG64-22, AS PER D-29
- ⑫ ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, AS PER D-23 AND D-24
- ⑬ ITEM 605 - 6" BASE PIPE UNDERDRAINS, AS PER D-42
- ⑭ ITEM 659 - SEEDING AND MULCHING, AS PER D-66
- ⑮ ITEM 204 - SUBGRADE COMPACTION
- ⑯ ITEM 305 - 6" CONCRETE BASE, AS PER D-23 AND D-24
- ⑰ ITEM 609 - CURB, TYPE 2-A, AS PER D-24
- ⑱ ITEM 202 - BRICK BASE REMOVED, AS PER D-15

* SEE PAVEMENT ELEVATION TABLE

EXISTING LEGEND

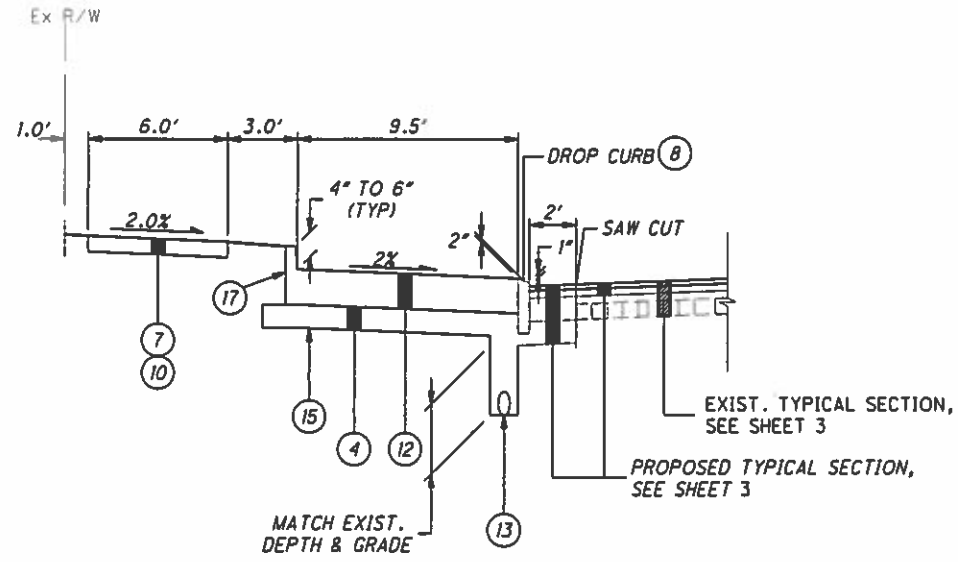
- (A) EXISTING 2"-5" ASPHALT CONCRETE
- (B) EXISTING 4" - 5" BRICK PAVER
- (C) EXISTING INTEGRAL CURB AND WALK
- (D) EXISTING CONCRETE/FLAGSTONE WALK
- (E) EXISTING 1" ASPHALT CONCRETE
- (F) EXISTING 8.5" CONCRETE REPAIR

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CALCULATED
DSM
CHECKED
DEN

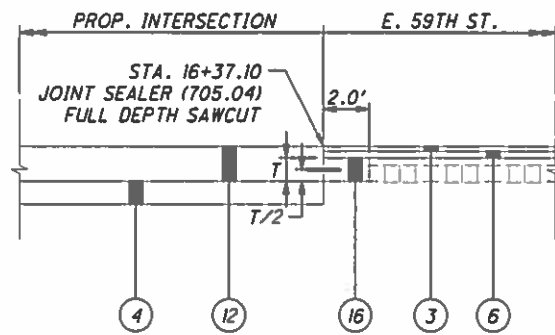
TYPICAL SECTIONS

CUY E. 59TH ST. REHABILITATION



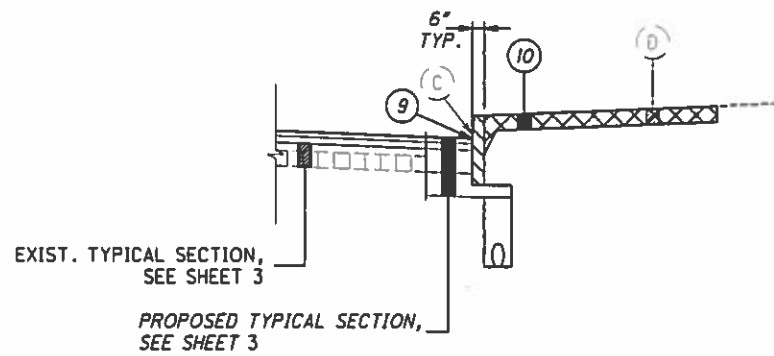
ON STREET PARKING DETAIL



STA. 12+98.00 TO 14+06.00 = 108 LF
NOT TO SCALE



ASPHALT TO CONCRETE JOINT DETAIL

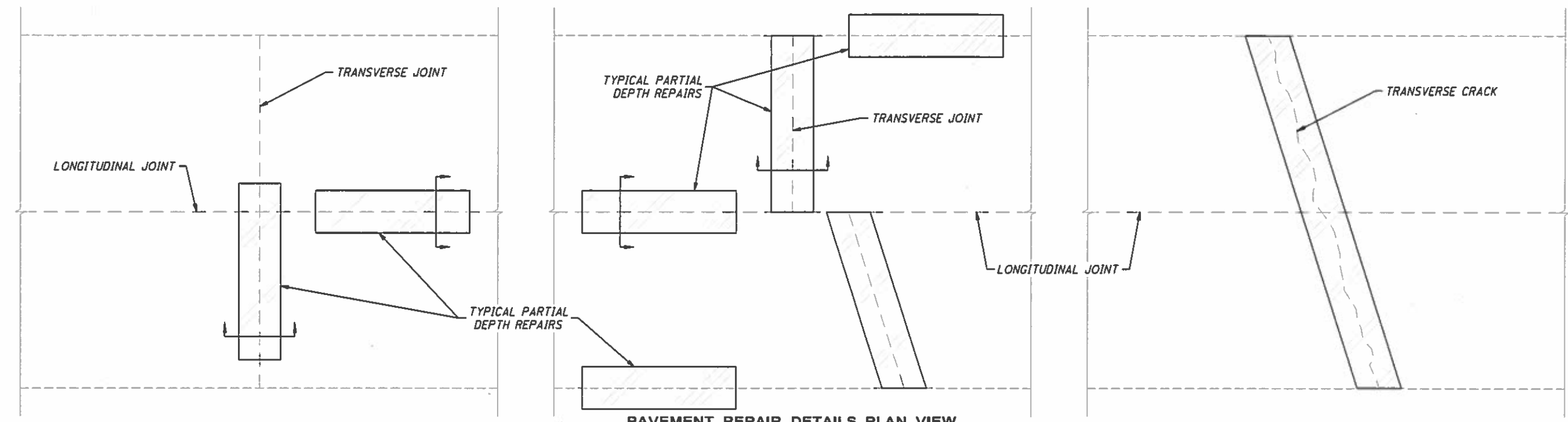
NOT TO SCALE



-  ITEM 202 - WALK REMOVED, AS PER PLAN
-  ITEM 202 - CURB REMOVED, AS PER PLAN

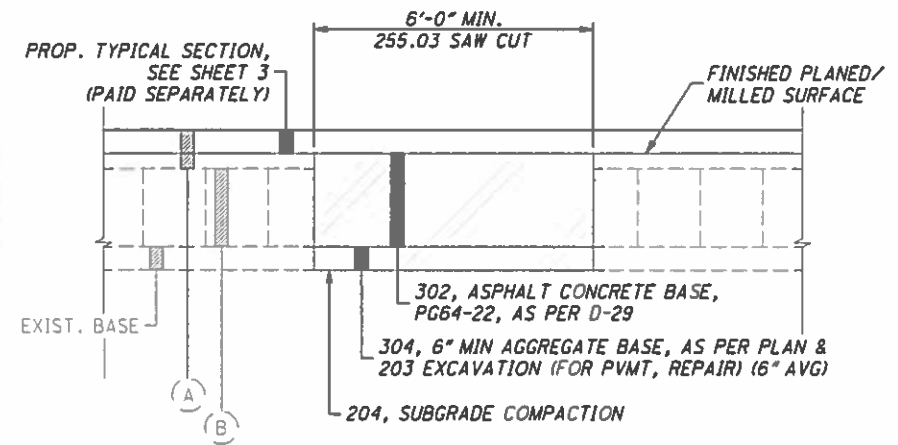
INTEGRAL CURB AND WALK REMOVED DETAIL

NOT TO SCALE



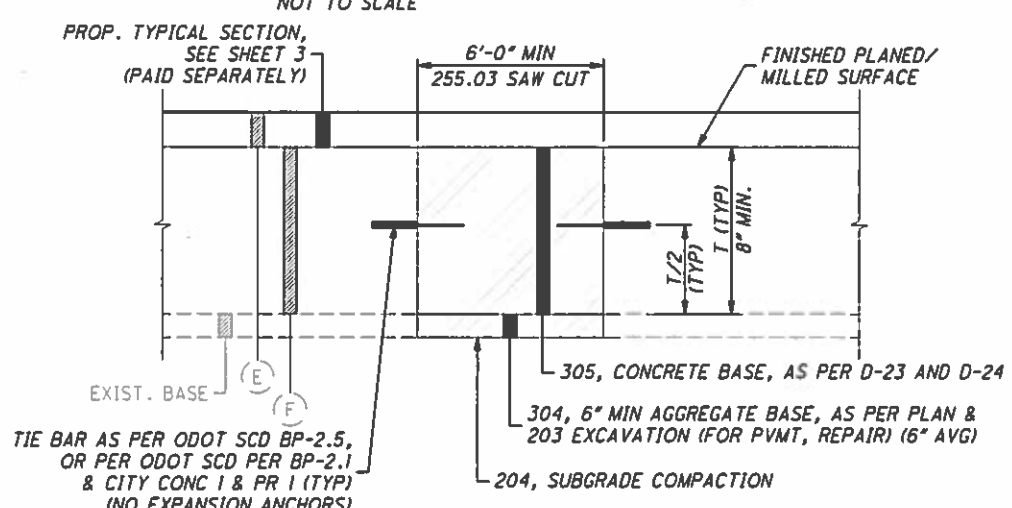
PAVEMENT REPAIR DETAILS PLAN VIEW

NOT TO SCALE



FULL DEPTH PAVEMENT REPAIR WITH BRICK BASE

NOT TO SCALE



FULL DEPTH PAVEMENT REPAIR WITH CONCRETE BASE

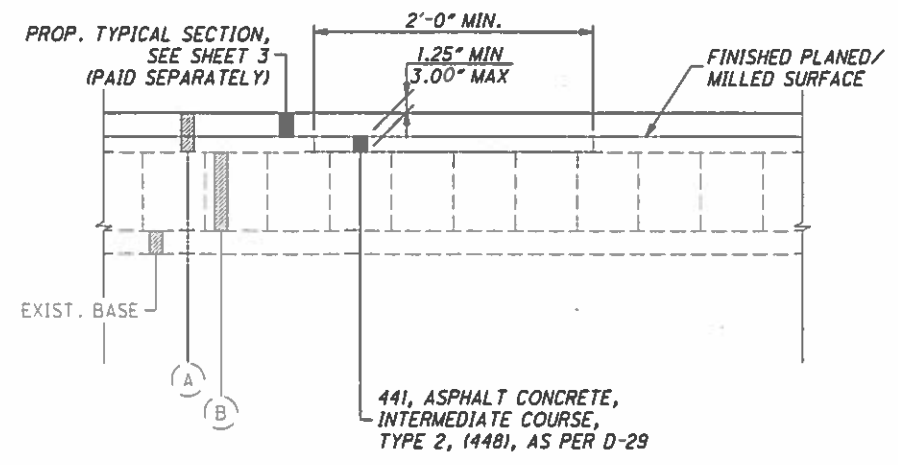
NOT TO SCALE

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN

- PARTIAL DEPTH PAVEMENT REPAIRS SHALL CONSIST OF 3" ASPHALT OR CONCRETE REMOVAL AND REPLACEMENT WITH 3" OF ITEM 441, TYPE 2, (448) MATERIAL OR ITEM 301.
- PLACE AND COMPACT THE ABOVE ASPHALT CONCRETE REPLACEMENT MATERIALS (ITEM 301 AND ITEM 441) IN ONE OR MORE LIFTS IN ACCORDANCE WITH 252.04 OF THE SPECIFICATIONS.
- FOR ADDITIONAL NOTES, SEE SHEET 9.

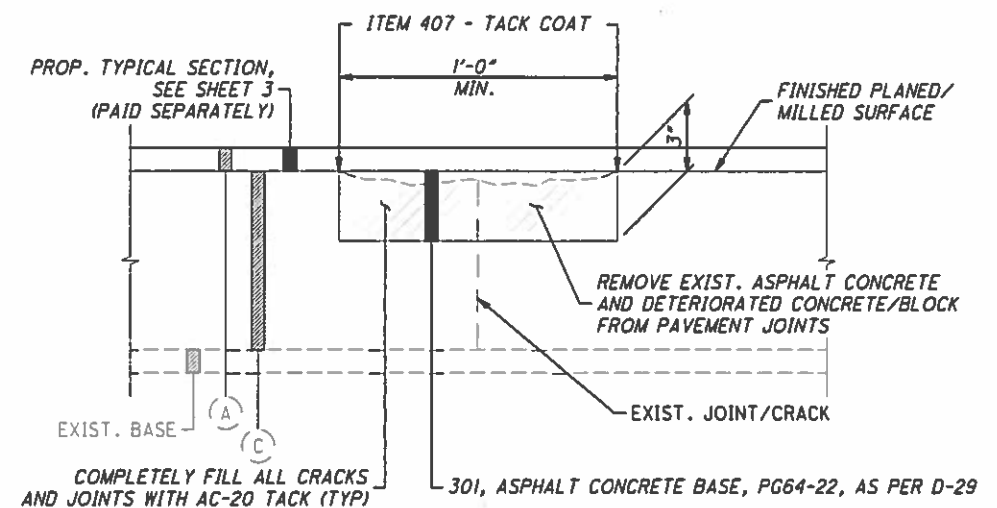
ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, AS PER PLAN

- FOR DOWEL SIZE AND SPACING, REFER ODOT SCD BP-2.1 & CITY OF CLEVELAND SCD CONC 1 & PR 1.
- REMOVE REMAINING ASPHALT AND CONCRETE/BRICK BASE UNDER ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, AS PER PLAN.
- FOR ADDITIONAL NOTES, SEE SHEET 9.



PARTIAL DEPTH PAVEMENT REPAIR WITH BRICK BASE

NOT TO SCALE



PARTIAL DEPTH PAVEMENT REPAIR WITH CONCRETE BASE

NOT TO SCALE

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GENERAL

PERMIT

IN THE CITY OF CLEVELAND, ALL PERMITS MUST BE OBTAINED FROM THE DIVISION OF ASSESSMENTS AND LICENSES PRIOR TO BEGINNING ANY WORK. PERMITS INCLUDE BUT ARE NOT LIMITED TO STREET OPENING PERMIT, OVERLOAD PERMIT, OBSTRUCTION PERMIT AND/OR SIDEWALK PERMIT AND MAY BE OBTAINED THROUGH THE FOLLOWING CONTACT:

TRAVIS EVANS
DEPARTMENT OF FINANCE
DIVISION OF ASSESSMENTS AND LICENSES
601 LAKESIDE AVENUE, ROOM 122
CLEVELAND, OHIO 44114
PHONE: (216) 664-2174
EMAIL: DALPERMITS@CITY.CLEVELAND.OH.US

ALL STREET OPENING REPAIRS, CURB REPAIRS, AND/OR SIDEWALK REPAIRS EITHER INCIDENTAL TO THE PROJECT OR PART OF THE PROJECT MUST BE PERFORMED IN ACCORDANCE TO CITY OF CLEVELAND STANDARDS. A COPY OF THE STANDARDS CAN BE OBTAINED FROM THE DIVISION OF ENGINEERING AND CONSTRUCTION BY CALLING (216) 664-2381.

THERE IS NO CHARGE FOR THE ROAD OPENING PERMIT FOR THE WORK INSIDE THE PROJECT LIMITS. ALL OTHER PERMITS, FEES AND CHARGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THEIR ASSOCIATED COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE PERTINENT WORK ITEMS PER D-II. FOR BIDDING PURPOSES, FEES AND CHARGES MAY BE OBTAINED FROM THE DIVISION OF ASSESSMENTS AND LICENSES AT (216) 664-2174.

UTILITIES

THE UTILITIES LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

AT&T OHIO
ATTN: JAMES JANIS
13630 LORAIN AVE. RM 200
CLEVELAND, OH 44111
PHONE: (216) 476-6142
FAX: (216) 476-6013

CEI FIRST ENERGY
ATTN: TED RADER
6896 MILLER RD.
BRECKSVILLE, OH 44141
PHONE: (440) 546-8738

CENTURYLINK
ATTN: CHRIS STRAYER
441 W. BROAD ST.
PATASKALA, OH 43062
PHONE: (303) 886-1299

CITY OF CLEVELAND
DIVISION OF WATER
ATTN: FRED ROBERTS
1201 LAKESIDE AVE.
CLEVELAND, OH 44114
PHONE: (216) 664-2444 x5590
FAX: (216) 664-2378

CITY OF CLEVELAND
WATER POLLUTION CONTROL
ATTN: ELIE RAMY
12302 KIRBY RD.
CLEVELAND, OH 44108
PHONE: (216) 664-2756

CITY OF CLEVELAND
DIVISION OF PUBLIC POWER (MELP)
ATTN: CHRIS HIRZEL
1300 LAKESIDE AVE.
CLEVELAND, OH 44114
PHONE: (216) 664-3922 X115
FAX: (216) 664-2972

GREATER CLEVELAND
REGIONAL TRANSIT
AUTHORITY (GCRTA)
ATTN: MIKE SCHIPPER
1240 W. 6TH ST.
CLEVELAND, OH 44113
PHONE: (216) 356-3112
FAX: (216) 350-5283

DOMINION EAST OHIO
ATTN: BRYAN D. DAYTON
320 SPRINGSIDE DR. SUITE 320
AKRON, OH 44333
PHONE: (330) 664-2409
FAX: (888) 504-0126

G4S TECHNOLOGY
ATTN: DALE FRENCH
4 WALKER WAY, SUITE 1
ALBANY, NY 12205
PHONE: (518) 527-5064

VERIZON (MCI)
ATTN: AL GUEST
120 RAVINE ST.
AKRON, OH 44303
PHONE: (330) 253-8267

XO COMMUNICATIONS
ATTN: DALE FERGUSON
6900 SOUTHPOINTE PKWY.
BRECKSVILLE, OH 44141
PHONE: (216) 619-3492

CEI FIRST ENERGY

A FIELD MEETING WITH USIC AND CEI REPRESENTATIVES IS REQUIRED 48 HOURS IN ADVANCE OF WORK IN PROXIMITY TO THE EXISTING CEI UG TRANSMISSION.

DOMINION EAST OHIO

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF DOMINION'S PIPELINE(S), IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P, (SAFE EXCAVATION & SHORING). ONE-FOOT MINIMUM VERTICAL AND HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN DOMINION EAST OHIO'S (DEO) EXISTING PIPELINE(S) AND ALL OTHER IMPROVEMENTS. EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY DEO FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES & DEVICES, VALVE BOXES, ETC.). DEO FACILITIES MUST BE PROTECTED WITH A TARP DURING BRIDGE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE AND LIABLE FOR ENSURING THAT ALL DEO EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED, ACCESSIBLE AND IN WORKING ORDER. THE CROSSING OF DEO'S PIPELINE WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PURPOSED FACILITY AND THE EXISTING DEO FACILITY. PLEASE CONTACT DOMINION'S CORROSION DEPARTMENT: DAVID CUTLIP (330-323-0064), RICK McDONALD (330-575-0335), OR AL HUMRICHOUER (330-323-3119).

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

EXISTING TYPICAL SECTIONS

EXISTING TYPICAL SECTIONS HAVE BEEN DEVELOPED FROM SURVEY AND PAVEMENT CORES AND ARE BELIEVED TO REPRESENT THE WIDTH AND COMPOSITION OF THE EXISTING PAVEMENT, BUT THE CITY OF CLEVELAND DOES NOT GUARANTEE THE ACCURACY OF SAME.

NORTHEAST OHIO REGIONAL
SEWER DISTRICT (NEORS D)
ATTN: MARY MACIEJOWSKI
3900 EUCLID AVE.
CLEVELAND, OH 44115
PHONE: (216) 881-6600 X6466

CLEVELAND PUBLIC POWER
ATTN: STEVE HOLLAND
CHIEF, BUREAU OF STREET LIGHTING
1300 LAKESIDE AVE.
CLEVELAND, OH 44114
PHONE: (216) 664-3922

CLEVELAND DIVISION OF TRAFFIC
ATTN: ROB MAVEC
601 LAKESIDE AVE., ROOM 25
CLEVELAND, OH 44114
PHONE: (216) 664-3195

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM. ALL CONTROL POINTS SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE SURVEYOR SHALL RUN AN INDEPENDENT HORIZONTAL AND VERTICAL TRAVERSE THROUGH ALL BENCHMARKS PROVIDED AND PROVIDE A RECORD COPY OF THE FIELD BOOK TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR POSSIBLE OMISSIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, WORK HOURS WILL BE RESTRICTED TO 7:00 AM TO 7:00 PM.

THE CONTRACTOR SHALL APPLY FOR A NOISE VARIANCE TO PERFORM NIGHT TIME PAVING. IN THE EVENT A NOISE VARIANCE IS NOT GRANTED BY THE DIRECTOR OF SAFETY, WORK SHALL COMMENCE DURING DAYTIME HOURS AT NO ADDITIONAL COST. ANY ADDITIONAL MAINTENANCE OF TRAFFIC COST WILL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN. NO SEPARATE PAYMENT WILL BE MADE.

DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT. THE NOISE LEVEL RESULTING FROM CONSTRUCTION SHALL BE WITHIN THE LIMITS SPECIFIED IN OSHA REGULATIONS AND ALL LOCAL ORDINANCES.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

LEGEND

- I.P.F. EXISTING IRON PIN FOUND AS NOTED
- Ⓜ EXISTING MONUMENT BOX FOUND AS NOTED
- Ⓛ EXISTING LIGHT POLE
- Ⓟ EXISTING POWER POLE
- ⓅⓁ EXISTING POWER & TELEPHONE POLE
- ⓁⓁ EXISTING LIGHT & TELEPHONE POLE
- ⓁⓅ EXISTING TELEPHONE POLE
- Ⓜ EXISTING ELECTRIC METER
- Ⓜ EXISTING ELECTRIC MANHOLE
- Ⓜ EXISTING TRANSFORMER
- Ⓜ EXISTING ELECTRIC PULLBOX
- Ⓜ EXISTING SIGNAL POLE
- Ⓜ EXISTING SIGNAL PULL BOX
- Ⓜ EXISTING TRAFFIC CONTROLLER BASE
- Ⓜ EXISTING TRAP CATCH BASIN
- Ⓜ EXISTING CATCH BASIN
- Ⓜ EXISTING CURB INLET
- Ⓜ EXISTING UNKNOWN MANHOLE
- Ⓜ EXISTING FIRE HYDRANT
- Ⓜ EXISTING WATER METER
- Ⓜ EXISTING WATER VALVE
- Ⓜ EXISTING WATER MANHOLE
- Ⓜ EXISTING WATER SERVICE VALVE
- Ⓜ EXISTING SPRINKLER HEAD
- Ⓜ EXISTING GAS VALVE
- Ⓜ EXISTING GAS SERVICE METER
- +9 EXISTING UNDERGROUND GAS LINE MARKER
- Ⓜ EXISTING GAS MANHOLE
- Ⓜ EXISTING TELEPHONE MANHOLE
- EXISTING POST OR BOLLARD
- + EXISTING SIGN
- Ⓜ EXISTING CLEANOUT
- Ⓜ EXISTING GUY WIRE
- Ⓜ EXISTING YARD LIGHT
- Ⓜ EXISTING FLAG POLE
- BUSH/SHRUB
- Ⓜ DECIDUOUS TREE
- Ⓜ EVERGREEN TREE
- Ⓜ TREE STUMP

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GENERAL NOTES

CUY E. 59TH ST. REHABILITATION

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ROADWAY (CONT'D)

ITEM 608 - 4" CONCRETE WALK, AS PER D-23, D-24 AND D-76

IN ADDITION TO THE REQUIREMENTS OF ODOT ITEM 608, CLEVELAND SPECIFICATIONS D-23, D-24, AND D-76, THE FOLLOWING SHALL APPLY:

ALL CONCRETE SHALL BE A MINIMUM OF 4" AND HAVE A 2" COMPACTED SCREENING BED WHICH MEETS THE REQUIREMENTS 703.10 (LIMITED TO CRUSHED STONE). THE COST OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO EXCAVATE, PLACE AND COMPACT SCREENINGS BED, LAYOUT AND FORM WORK, AND PLACEMENT OF NEW CONCRETE WALK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR ITEM 608 - 4" CONCRETE WALK, AS PER D-23, D-24 AND D-76.

WHEN DECORATIVE WALK IS ENCOUNTERED, CONTRACTOR SHALL REMOVE THE BRICK AND SALVAGE FOR REUSE. ANY DECORATIVE WALK OUTSIDE THE CURB RAMP AREA IS TO BE REINSTALLED

TRANSVERSE EXPANSION JOINTS SHALL BE CONSTRUCTED AT INTERVALS OF NOT MORE THAN 25 TO 30 FEET UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE EXPANSION JOINT FILLER (705.03) SHALL BE PLACED AT THE TRANSVERSE EXPANSION JOINTS FOR THE FULL DEPTH/WIDTH OF THE CONCRETE WALK AND SHALL BE TRULY NORMAL TO GRADE. THE TOP 1/2 INCH OF THE EXPANSION JOINT PLACED BETWEEN THE WALK AND BACK OF CURB SHALL BE SEALED WITH 705.04 JOINT SEALER.

THE FINAL SURFACE SHALL BE TEXTURED BY USE OF AN ACCEPTED BROOM SO AS TO PRODUCE A UNIFORM, GRITTY, TRANSVERSE TEXTURE, AFTER WHICH, THE CONTRACTOR IS REQUIRED TO RETRACE THE PREVIOUSLY FORMED JOINTS AND OUTSIDE EDGES OF THE WALK. (I.E. PICTURE FRAME).

THE COST OF THE MATERIAL AND LABOR ASSOCIATED WITH THE ABOVE WORK IS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR ITEM 608 - 4" CONCRETE WALK, AS PER D-23, D-24 AND D-76.

ITEM 608 - DETECTABLE WARNING, AS PER PLAN

FOR EXISTING CURB RAMPS WHICH ARE DETERMINED BY THE ENGINEER TO BE ADA COMPLIANT, THE CONTRACTOR SHALL SAW CUT AT THE LIMITS OF THE EXISTING DETECTABLE WARNING INSERT OR AT THE PROPOSED INSERT LOCATION. REMOVE ALL EXISTING CONCRETE AND INSERTS AS DIRECTED BY THE ENGINEER. FORM AND POUR NEW CONCRETE WALK PER DETAILS SHOWN ON THE CITY OF CLEVELAND STD DWG CR-1. INSERT RED DETECTABLE WARNING TILE AS PER MANUFACTURER'S INSTRUCTIONS.

THE ITEM SHALL INCLUDE ALL SAW CUTTING REQUIRED TO REMOVE THE EXISTING DETECTABLE WARNING, REMOVAL OF EXISTING DETECTABLE WARNING, AND NEW DETECTABLE WARNING TILE REQUIRED WHERE A COMPLETE ADA CURB RAMP LAYOUT IS NOT REQUIRED. DESIGN INTENT IS TO REPLACE EXISTING DETECTABLE WARNING INSERTS WITH A RED TILE, AS PER CITY OF CLEVELAND CURB RAMP PROVISIONS.

PAYMENT FOR THIS ITEM IS MEASURED BY THE SQUARE FOOT AREA FOR DETECTABLE WARNING TILE INSERT.

A CONTINGENCY QUANTITY FOR ITEM 608 - DETECTABLE WARNING, AS PER PLAN HAS BEEN CARRIED THROUGH TO THE GENERAL SUMMARY, FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 608 - DETECTABLE WARNING, AS PER PLAN 20 SF

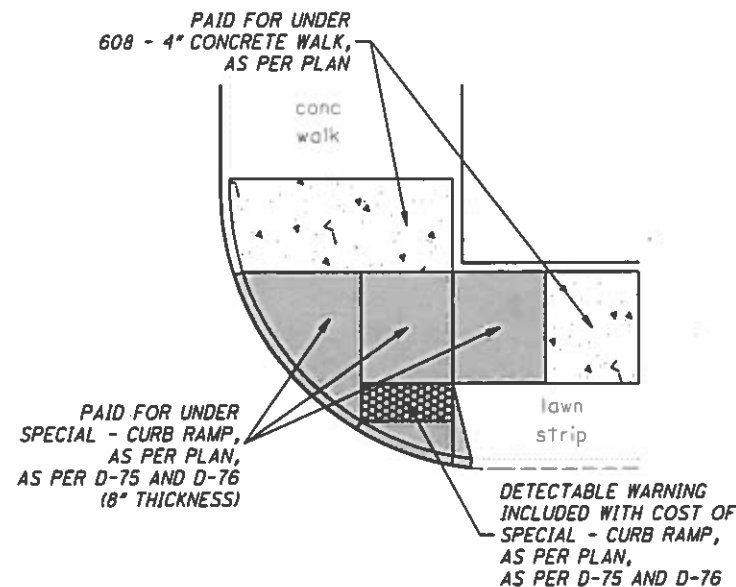
ITEM SPECIAL - CURB RAMP, AS PER PLAN, AS PER D-75 AND D-76

THIS ITEM OF WORK SHALL BE PERFORMED AS PER ODOT ITEM 608 - CURB RAMP, CLEVELAND SPECIFICATIONS D-75 AND D-76 AND AS MODIFIED BELOW:

ANY NEWLY CONSTRUCTED CURB RAMP NOT MEETING ADA REQUIREMENTS WILL BE REMOVED AND REPLACED BY THE CONTRACTOR, AT THEIR COST, TO THE SATISFACTION OF THE CITY.

PAYMENT SHALL BE MEASURED IN PER CURB RAMP AS INDICATED ON THE CURB RAMP PAY LIMITS DETAILS BELOW, AND AS INDICATED ON THE PLAN SHEETS. PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO CONSTRUCT THE NEW CURB RAMP, COMPLETE IN PLACE. PAYMENT INCLUDES EXISTING RAMP/SIDEWALK REMOVALS, SURVEYING, CONSTRUCTION LAYOUT, FORM WORK, REPLACEMENT OF 2" SCREENINGS BED, PLACEMENT OF SIDEWALK AND CURB CONCRETE FOR NEW RAMP, AND PLACEMENT OF NEW DETECTABLE WARNINGS WITHIN THE PROPOSED RAMP AREAS. ALL SAWCUTTING, APPURTENANCES, AND OTHER WORK NECESSARY FOR THE COMPLETE INSTALLATION OF THE RAMP IS CONSIDERED INCIDENTAL TO THIS ITEM. ALL TOPSOIL, SEEDING, AND MULCHING REQUIRED ADJACENT TO THE CURB RAMP SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. SEEDING MIX SHALL CONFORM TO D-66.

CURB RAMPS AT INTERSECTION CORNERS AND AT MIDBLOCK/T-INTERSECTION LOCATIONS ARE SHOWN ON THE PLANS FOR ESTIMATING PURPOSES. WORK BEYOND THE LIMITS OF THE CURB RAMP AREA SHALL BE PAID UNDER SEPARATE PAY ITEMS.



CURB RAMP PAY LIMITS DETAIL
N.T.S.

EROSION CONTROL

ITEM 832 - EROSION CONTROL (SWPP), AS PER D-22

IN ADDITION TO THE REQUIREMENTS OF ODOT ITEM 832 AND CLEVELAND SPECIFICATION D-22, THE FOLLOWING SHALL APPLY:

CONTRACTOR SHALL PLACE INLET PROTECTION ON ALL EXISTING OR PROPOSED CATCH BASINS DOWNSTREAM FROM UNSTABILIZED AREAS. REFER TO THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL, CHAPTER 6 FOR DETAILS.

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED AS PLACED BY THE CONTRACTOR WITH ENGINEERS' CONCURRENCE FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

ITEM 832 - EROSION CONTROL (SWPP), AS PER D-22 2500 EACH

DRAINAGE

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING SEWERS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

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GENERAL NOTES

CUY E. 59TH ST. REHABILITATION

DRAINAGE (CONT'D)

STRUCTURES ADJUSTED TO GRADE, RECONSTRUCTED TO GRADE, OR REPLACED, AS PER PLAN, AS PER D-38 AND D-39

THIS ITEM OF WORK SHALL BE PERFORMED AS PER ODOT ITEM 611, CLEVELAND SPECIFICATIONS D-38 AND D-39 AND AS MODIFIED BELOW:

CASTINGS SHALL BE ADJUSTED OR RECONSTRUCTED TO GRADE IN ACCORDANCE WITH 611.10 USING CLAY BRICKS (704.01), CLEVELAND 650 CONCRETE MIX DESIGN AND/OR CONCRETE MORTAR, OR PER 638.18 AND AS SPECIFIED BELOW FOR SERVICE BOX AND VALVE BOX ADJUSTMENTS. MAXIMUM CONCRETE MORTAR THICKNESS IS 1-1/2 INCHES.

THE CONTRACTOR SHALL RESET EXISTING VALVE BOXES OR EXISTING CURB SHUT-OFF VALVE BOXES TO ESTABLISHED GRADE BY RAISING OR LOWERING THE EXISTING CASTINGS OR BY EITHER ADDING, DELETING OR CUTTING THE APPROPRIATE VALVE BOX STEM SECTIONS. IN RAISING OF THE CASTINGS, NO INSERTS WILL BE PERMITTED. ANY VALVE BOXES OR CURB SHUT-OFF VALVE BOXES FOUND TO BE DAMAGED OR UNSUITABLE FOR REUSE SHALL BE REPLACED BY THE CONTRACTOR AND PAID FOR UNDER ITEM SPECIAL - MISCELLANEOUS METAL. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY AS REQUIRED OR AS ORDERED TO COMPLETE THE ITEM.

ADJUST TO GRADE, RECONSTRUCT TO GRADE OR TOTAL REPLACEMENT WORK SHALL, WHERE REQUIRED, INCLUDE THE REMOVAL AND REPLACEMENT OF ANY EXISTING CONCRETE BLOCKOUT CURB, PAVEMENT AND/OR SIDEWALK BEHIND CATCH BASINS USING MODERATE-SETTING CONCRETE (CLASS MS) OR, IF APPROVED/DIRECTED BY THE ENGINEER, FAST-SETTING CONCRETE (CLASS FS). TO FACILITATE REMOVAL, THE BLOCKOUT PAVEMENTS SHALL BE SAWED FULL DEPTH ALONG THE LIMITS OF THEIR REMOVAL UNLESS OTHERWISE DESIGNATED/DIRECTED BY THE ENGINEER. UNLESS OTHERWISE APPROVED/DIRECTED BY THE ENGINEER, BLOCKOUT PAVEMENT, REINFORCING STEEL, JOINT MATERIAL AND LOAD TRANSFER DEVICES SHALL BE REPLACED/INSTALLED IN ACCORDANCE WITH THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING CONC-1 AND PR-1. ALL COSTS ASSOCIATED WITH THE BLOCKOUT REMOVALS/REPLACEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE PER EACH BID ITEMS.

ALL EXISTING CASTINGS FOR STRUCTURES TO BE ADJUSTED OR RECONSTRUCTED TO GRADE SHALL BE FIELD CHECKED AT THE TIME OF CONSTRUCTION AND MARKED SUITABLE FOR SALVAGE AND REUSE OR REPLACED AS DIRECTED BY THE ENGINEER. UNLESS OTHERWISE INDICATED ON THE PLAN. REPLACEMENT CASTINGS ARE PAID UNDER ITEM SPECIAL - MISCELLANEOUS METAL.

THE ENGINEER WILL DETERMINE THE ITEM 611 WORK REQUIRED BASED ON THE GUIDELINES STIPULATED BELOW:

1. "ADJUSTED TO GRADE, AS PER D-39" SHALL INCLUDE ALL WORK SPECIFIED IN 611.10 AS NECESSARY TO RAISE THE EXISTING/NEW CASTING NO MORE THAN ONE (1) FOOT FROM ITS EXISTING ELEVATION OR TO LOWER THE EXISTING/NEW CASTING NO MORE THAN SIX (6) INCHES FROM ITS EXISTING ELEVATION. IN ADDITION, THIS ITEM WILL INCLUDE ANY SUPPORTING WALL REPAIR WORK NECESSARY, UP TO SIX (6) INCHES BELOW THE TOP OF THE EXISTING SUPPORTING WALL.

PAYMENT SHALL BE MADE UNDER THE APPROPRIATE STRUCTURE (ITEM 611) ADJUSTED TO GRADE.

STRUCTURES ADJUSTED TO GRADE, RECONSTRUCTED TO GRADE, OR REPLACED, AS PER D-38 AND D-39 (CONT'D)

2. "RECONSTRUCTED TO GRADE, AS PER D-38" SHALL INCLUDE ALL WORK SPECIFIED IN 611.10 AND SHALL ALSO INCLUDE EXISTING/NEW CASTINGS RAISED MORE THAN ONE (1) FOOT FROM THEIR EXISTING ELEVATION OR LOWERED MORE THAN SIX (6) INCHES FROM THEIR EXISTING ELEVATION. IN ADDITION, THIS ITEM WILL INCLUDE ANY SUPPORTING WALL REPAIR WORK NECESSARY, MORE THAN SIX (6) INCHES BELOW THE TOP OF THE EXISTING SUPPORTING WALL.

THE WORK LIMIT SHALL BE SPECIFIED BY THE ENGINEER AND PAYMENT SHALL BE MADE UNDER THE APPROPRIATE STRUCTURE (ITEM 611) RECONSTRUCTED TO GRADE.

ONLY ONE (1) OF THE ABOVE PAYMENT ITEMS MAY BE USED PER STRUCTURE. "RECONSTRUCTED TO GRADE, AS PER D-38" WORK SHALL NOT BE PERFORMED UNLESS SPECIFICALLY INDICATED IN THE PLANS OR OTHERWISE ORDERED BY THE ENGINEER. ANY SUCH WORK MADE NECESSARY DUE TO THE CONTRACTOR'S NEGLIGENT OPERATIONS, AS DETERMINED BY THE ENGINEER, SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

EXISTING CASTINGS THAT ARE THE PROPERTY OF NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORS) MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY MICHAEL ZAPTOR, MANAGER OF SSMO, AT 216-641-6000 OR zaporm@neorsd.org OF THE REQUIRED TYPE, SIZE, AND STRENGTH (HEAVY) FOR THE PARTICULAR STRUCTURE IN QUESTION. NEORS WILL PROVIDE THE MATERIAL. CONTRACTOR WILL INSTALL AND ADJUST TO GRADE. CASTING DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE EXPENSE OF THE CONTRACTOR. NEORS KEEPS A SMALL NUMBER IN INVENTORY, AN ORDER REQUIRED SEVERAL WEEKS TO FULFILL; NOTIFY NEORS AS SOON AS POSSIBLE IF NEW CASTINGS ARE NEEDED.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY AND ARE IN ADDITION TO THE PLAN ESTIMATED QUANTITIES:

- ITEM 611 - CATCH BASIN RECONSTRUCTED TO GRADE, AS PER D-38 **1 EACH**
- ITEM 611 - MANHOLE RECONSTRUCTED TO GRADE, AS PER D-38 **1 EACH**

ITEM 611 - CATCH BASIN, CITY OF CLEVELAND NO. 1, AS PER D-34

ITEM 611 - 12" CONDUIT, TYPE B, AS PER D-32 AND D-33

THIS ITEM OF WORK SHALL BE PERFORMED AS PER ODOT ITEM 611, CLEVELAND SPECIFICATIONS D-32, D-33, AND D-34 AND AS MODIFIED BELOW:

PROPOSED 12" CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH ITEM 611 - 12" CONDUIT, TYPE B AND IN ACCORDANCE WITH CITY OF CLEVELAND, STANDARD CONSTRUCTION DRAWING 146-ME, STANDARD TRENCH FOR PIPE SEWERS. COLLAR FROM PROPOSED TO EXISTING PIPE SHALL BE IN ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING DM-1.1 OR OTHER METHODS APPROVED BY THE ENGINEER. REPAIR OF TRENCH SHALL BE IN ACCORDANCE WITH CITY OF CLEVELAND, STANDARD CONSTRUCTION DRAWING PR 1, STREET OPENING REPAIR. LENGTH OF ACTUAL PIPE INSTALLED SHALL BE AS DIRECTED BY THE ENGINEER.

COST OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL PROPOSED CATCH BASIN AND PROPOSED CONDUIT, TYPE B, INCLUDING BEDDING AND BACKFILL, SHALL BE INCLUDED IN THE COST FOR ITEM 611 - CATCH BASIN, CITY OF CLEVELAND NO. 1, AS PER D-34 OR ITEM 611 - 12" CONDUIT, TYPE B, AS PER D-32 AND D-33.

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR TRENCH REPAIR AND ARE CARRIED TO THE GENERAL SUMMARY:

- ITEM 202 - BRICK BASE REMOVED, AS PER D-15 **10 SY**
- ITEM 302 - 6" ASPHALT CONCRETE BASE, PG64-22, AS PER D-29 **2 CY**
- ITEM 304 - 6" AGGREGATE BASE, AS PER PLAN **2 CY**

ITEM 613 - LOW STRENGTH MORTAR BACKFILL (TYPE 1)

A CONTINGENCY QUANTITY FOR ITEM 613 - LOW STRENGTH MORTAR BACKFILL (TYPE 1) HAS BEEN CARRIED THROUGH TO THE GENERAL SUMMARY, FOR USE AS DIRECTED BY THE ENGINEER:

- ITEM 613 - LOW STRENGTH MORTAR BACKFILL (TYPE 1) **100 CY**

ITEM SPECIAL - MISCELLANEOUS METAL, AS PER D-72

THIS ITEM OF WORK SHALL BE PERFORMED AS PER ODOT ITEM SPECIAL - MISCELLANEOUS METAL, CLEVELAND SPECIFICATION D-72 AND AS MODIFIED BELOW:

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

- ITEM SPECIAL - MISCELLANEOUS METAL, AS PER D-72 **2,500 LB**

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND REPLACEMENT OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE EXPENSE OF THE CONTRACTOR.

PAVEMENT

PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS. IN NO CASE SHALL THE OVERLAY BE LESS THAN 3 INCHES. CONTRACTOR TO PROVIDE A MINIMUM TRANSVERSE CROSS SLOPE OF 1.6%. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AT GUTTER LINE.

ASPHALT CONCRETE SURFACE COURSE SEALING REQUIREMENTS

IN ADDITION TO THE GUTTER SEALING REQUIREMENTS SPECIFIED ON SCD BP-3.1, IN 401.15 AND 401.17, AFTER COMPLETION OF THE SURFACE COURSE, THE CONTRACTOR SHALL SEAL, WITH A CERTIFIED PG BINDER, THE FOLLOWING LOCATIONS:

- ALL CASTINGS INCLUDING BUT NOT LIMITED TO MONUMENTS, MANHOLES, WATER VALVES, CATCH BASINS, CURB INLETS.
- BUTT JOINTS AND FEATHER JOINTS INCLUDING BRIDGE APPROACHES.
- FORWARD JOINT FOR DRIVEWAY ASPHALT AND TRAILING JOINT WHEN BUTTING TO EXISTING ASPHALT DRIVE.
- PERIMETER OF ALL PAVEMENT REPAIRS OR OTHER ASPHALT INLAYS WHEN PAVEMENT REPAIRS/INLAYS ARE NOT OVERLAID WITH AN ASPHALT CONCRETE SURFACE COURSE.
- ALL COLD TRANSVERSE CONSTRUCTION JOINTS PER 401.17.
- ALL COLD LONGITUDINAL JOINTS BETWEEN PAVED SHOULDERS AND GUARDRAIL ASPHALT.

THE MATERIAL USED SHALL BE A CERTIFIED 705.04 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2 INCHES.

ANY ADDITIONAL COSTS ASSOCIATED WITH THE WORK IDENTIFIED IN THIS NOTE SHALL BE INCLUDED IN THE APPROPRIATE ASPHALT CONCRETE SURFACE COURSE ITEM OF WORK.

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GENERAL NOTES

CUY E. 59TH ST. REHABILITATION

PAVEMENT, CONT'D

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN

AFTER THE WEARING COURSE IS REMOVED, THE CONTRACTOR SHALL CLEAN THE MILLED/PLANED SURFACE FOR INSPECTION BY THE ENGINEER. THE ENGINEER SHALL THEN IDENTIFY AREAS REQUIRING PARTIAL DEPTH PAVEMENT REPAIR. ALL APPLICABLE PROVISIONS OF ITEM 251, AS SET FORTH IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, SHALL APPLY EXCEPT AS MODIFIED HEREIN.

251.02 REMOVAL OF EXISTING PAVEMENT

APPROVED REMOVAL METHODS SHALL SATISFACTORILY ESTABLISH A NEAT VERTICAL FACE ALONG THE ENTIRE PERIMETER OF THE REPAIR AREA IN ORDER TO SUBSEQUENTLY PERMIT THE PROPER PLACEMENT AND COMPACTION OF THE ASPHALT CONCRETE PATCHING MATERIAL, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER. FOR REMOVAL DEPTHS BETWEEN 1.25" AND 3", THE REPLACEMENT MATERIAL SHALL BE ITEM 441 TYPE 2. FOR REMOVAL DEPTHS THREE (3) INCHES OR MORE, REPLACEMENT MATERIAL SHALL BE ITEM 301.

PARTIALLY EMBEDDED STEEL MESH EXPOSED SHALL BE WIRE-BRUSHED OR OTHERWISE CLEANED TO REMOVE ALL LOOSE RUST. LOOSENED OR TOTALLY EXPOSED WIRE MESH REINFORCING SHALL BE CUT AND REMOVED AS REQUIRED WITHOUT DISPLACEMENT OR DISRUPTION TO THE REINFORCEMENT AND/OR PAVEMENT TO REMAIN.

251.05 BASIS OF PAYMENT

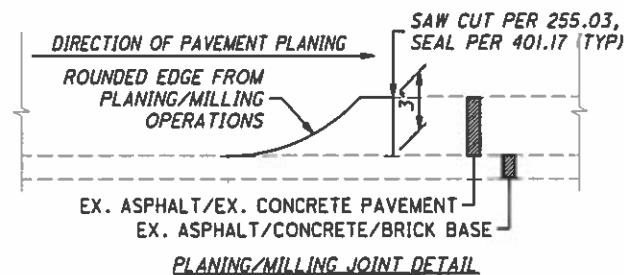
THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR PARTIAL DEPTH PAVEMENT REPAIR.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN **200 SY**

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE AND CONCRETE, AS PER PLAN (T=3")

PLANE THE ASPHALT SURFACE PAVEMENT ACCORDING TO C&MS ITEM 254, UP TO A DEPTH OF 3", OR TO THE DEPTH OF THE EXISTING ASPHALT MATERIAL, WHICHEVER IS LESS. DEPTH OF PLANING SHALL NOT EXCEED THE DEPTH OF THE EXISTING ASPHALT COURSE TO BE REMOVED.

IN ADDITION, WHEN PLANING/MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAWCUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE, AS DETAILED ON THIS SHEET. METHOD OF REMOVAL OF REMAINING ASPHALT CONCRETE IS LEFT TO THE DISCRETION OF THE ENGINEER. PAYMENT FOR ALL LABOR, MATERIALS, AND EQUIPMENT ARE CONSIDERED INCIDENTAL TO ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN.



ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1, AS PER PLAN

WHEN THIS ITEM IS CALLED FOR ON THE PLANS OR IN THE PROPOSAL, ALL APPLICABLE PROVISIONS OF ITEM 255, AS SET FORTH IN THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATION, SHALL APPLY EXCEPT AS MODIFIED HEREIN AND AS OTHERWISE DETAILED OR SPECIFIED ON THE CITY OF CLEVELAND ENGINEER'S STANDARD CONSTRUCTION DRAWING PR-1 AND CONC-1.

CONCRETE SHALL BE ODOT CLASS QC1. AT INTERSECTIONS OF HIGH VOLUME TRAFFIC, CLASS OC MS CONCRETE SHALL BE USED, AS DIRECTED BY THE ENGINEER. OC MS CONCRETE SHALL BE IN ACCORDANCE WITH THE CITY OF CLEVELAND CONCRETE MIX DESIGN FOR CLASS QC MS CONCRETE, AS SPECIFIED IN D-25.

AFTER THE WEARING COURSE IS REMOVED, THE CONTRACTOR SHALL CLEAN THE MILLED/PLANED SURFACE FOR INSPECTION BY THE ENGINEER. THE ENGINEER SHALL IDENTIFY AREAS REQUIRING FULL DEPTH REMOVAL AND RIGID REPLACEMENT. THE FULL DEPTH RIGID PAVEMENT REMOVAL WORK SHALL INCLUDE THE REMOVAL OF DETERIORATED ASPHALT, BRICK, AND/OR CONCRETE PAVEMENT UNDER MILLED SURFACE, INCLUDING OLD UTILITY TRENCH AREAS, AND OTHER PAVEMENT PATCH AREAS ALONG THE MAINLINE, OF VARIOUS PAVEMENT COMPOSITIONS, REGARDLESS OF SHAPE OR SIZE. SEE DETAIL ON SHEET 5.

FULL DEPTH SAW CUTS SHALL BE MADE ALONG THE ENTIRE PERIMETER OF THE GENERALLY RECTANGULAR SHAPED REMOVAL AREAS, IN ORDER TO ESTABLISH NEAT VERTICAL FACES. THE COST OF ALL SAW CUTTING WORK SHALL BE CONSIDERED INCIDENTAL TO THIS PAY ITEM. THE CONTRACTOR SHALL USE APPROVED METHODS FOR REMOVAL OF THE FULL DEPTH PAVEMENT REPLACEMENT AREAS, THAT WILL MINIMIZE DAMAGE TO THE SURROUNDING AREA.

THE SUBGRADE SHALL BE CORRECTED PER 255.04 TAKING CARE TO THOROUGHLY COMPACT WITH PROPER MOISTURE CONTROL, USING TAMPERS OR ROLLERS AS NECESSARY TO ACHIEVE ACCEPTABLE COMPACTION. THE COST OF THIS SUBGRADE WORK IS INCLUDED WITH THIS PAY ITEM.

THE FULL DEPTH RIGID REPLACEMENT SHALL INCLUDE 203 EXCAVATION, 204 SUBGRADE COMPACTION, SAW CUTTING, REMOVAL OF ASPHALT, BRICK, CONCRETE BASE, AND SUBBASE, PLACEMENT OF NEW 304 AGGREGATE BASE (IF NECESSARY), DOWELS PER ODOT SCD BP-2.2 AND CITY OF CLEVELAND SCD CONC-1, AND PLACEMENT OF A CONCRETE PAVEMENT BASE COURSE AS SHOWN ON SHEET 4. IN ADDITION TO CMS SPECIFICATIONS, NO SLAG OF ANY KIND IS PERMITTED FOR USE AS 304 AGGREGATE BASE. THE TOP OF THE CONCRETE SHALL BE CONSTRUCTED TO THE SAME DEPTH AS THE CONCRETE BASE SURROUNDING THE REPAIR AREA, USING DOWEL BARS, AS SHOWN IN THE CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWING PR-1. HOOK BOLTS OR #5X TIE BARS SHALL BE REQUIRED, AS PER ODOT SCD BP-2.1. IN ADDITION, DOWELS SHALL BE REQUIRED, AS PER ODOT SCD BP-2.2. NO EXPANSION ANCHORS WILL BE PERMITTED.

FULL DEPTH REPAIRS 10 FEET OR LONGER MUST CONTAIN MESH REINFORCING.

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR FULL DEPTH PAVEMENT REPAIRS AND ARE CARRIED TO THE GENERAL SUMMARY:

ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1, AS PER PLAN **200 SY**

ITEM 304 - AGGREGATE BASE, AS PER PLAN

FURNISH MATERIALS PER ODOT ITEM 703.17. USE OF GRANULATED SLAG, STEEL SLAG, AIR COOLED BLAST FURNACE SLAG, RECYCLED CONCRETE OR RECYCLED ASPHALT SHALL NOT BE PERMITTED.

ITEM 305, 608, AND 609 - CONSTRUCTION OF CONCRETE BASE PAVEMENT, SIDEWALKS, AND CURB, AS PER PLAN

CONSTRUCT CONCRETE ITEMS IN ACCORDANCE WITH THE ODOT CMS, EXCEPT AS MODIFIED BY GENERAL NOTE "CONCRETE DESIGN MIX (CLEVELAND 650)" AND OTHER GENERAL NOTES WITHIN THE PLAN SET.

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, AS PER D-29

THIS ITEM OF WORK SHALL BE PERFORMED AS PER ODOT ITEM 441, CLEVELAND SPECIFICATION D-29 AND AS MODIFIED BELOW:

THE COURSE VIRGIN AGGREGATE FOR THIS ITEM SHALL CONSIST OF A BLEND OF 60% MIN. AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE.

ITEM SPECIAL - MISC.: CONCRETE MIX DESIGN FOR CLASS OC MS CONCRETE, AS PER D-25

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL - MISC.: CONCRETE MIX DESIGN FOR CLASS QC MS CONCRETE, AS PER D-25 **10 CY**

ITEM 609 - CURB, TYPE 2-A, AS PER D-24
ITEM 609 - CURB, TYPE 6, AS PER D-24

ALL APPLICABLE THIS ITEM OF WORK SHALL BE PERFORMED AS PER ODOT ITEM 609, CLEVELAND SPECIFICATION D-24 AND AS MODIFIED BELOW:

AT THE BEGINNING AND END OF THE PROJECT, MATCH THE HEIGHT OF NEW CURB TO THE HEIGHT OF ADJACENT EXISTING CURB, AND TRANSITION TO FULL 6" CURB REVEAL AT A RATE OF 1" CURB HEIGHT PER FOOT OF CURB LENGTH.

TOPSOIL, SEEDING AND MULCHING REQUIRED ADJACENT TO THE CURB CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. SEEDING MIX SHALL CONFORM TO D-66.

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GENERAL NOTES

CUY E. 59TH ST. REHABILITATION

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INCIDENTALS

ITEM 619 - FIELD OFFICE, TYPE B, AS PER D-45

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 619 - FIELD OFFICE, TYPE B, AS PER D-45 6 MONTHS

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER D-47

THIS ITEM OF WORK SHALL BE PERFORMED AS PER ODOT ITEM 623, CLEVELAND SPECIFICATION D-47 AND AS MODIFIED BELOW:

CONTRACTOR SHALL FURNISH DIMENSIONS, MEASUREMENT, SKETCHES, ETC. NECESSARY TO DETERMINE PAY QUANTITIES. THIS WILL MAINLY APPLY TO CHANGE ORDERS, QUANTITIES TO BE USED AS DIRECTED AND DISPUTED PAYMENT QUANTITIES OR CALCULATIONS.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER D-47.

ITEM SPECIAL - AS-BUILT CONSTRUCTION PLANS, AS PER D-77

THIS ITEM OF WORK SHALL BE PERFORMED AS PER CLEVELAND SPECIFICATION D-77 AND AS MODIFIED BELOW:

THE CONTRACTOR IS TO PROVIDE "AS-BUILT" DRAWINGS SHOWING ALL ELEVATIONS AND INVERTS, LOCATIONS OF ROADWAYS BOTH HORIZONTAL AND VERTICAL. THE INSPECTOR SHALL SIGN THE SHEETS VERIFYING THAT ALL CHANGES HAVE BEEN SHOWN ON THE "AS-BUILT" DRAWINGS. THE INSPECTOR IS NOT RESPONSIBLE FOR THE ACCURACY OF THE LOCATIONS OR ELEVATIONS. ALL ELEVATIONS AND LOCATIONS ARE TO BE CERTIFIED BY THE REGISTERED SURVEYOR, LICENSED TO PRACTICE IN THE STATE OF OHIO.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM SPECIAL - AS-BUILT CONSTRUCTION PLANS, AS PER D-77.

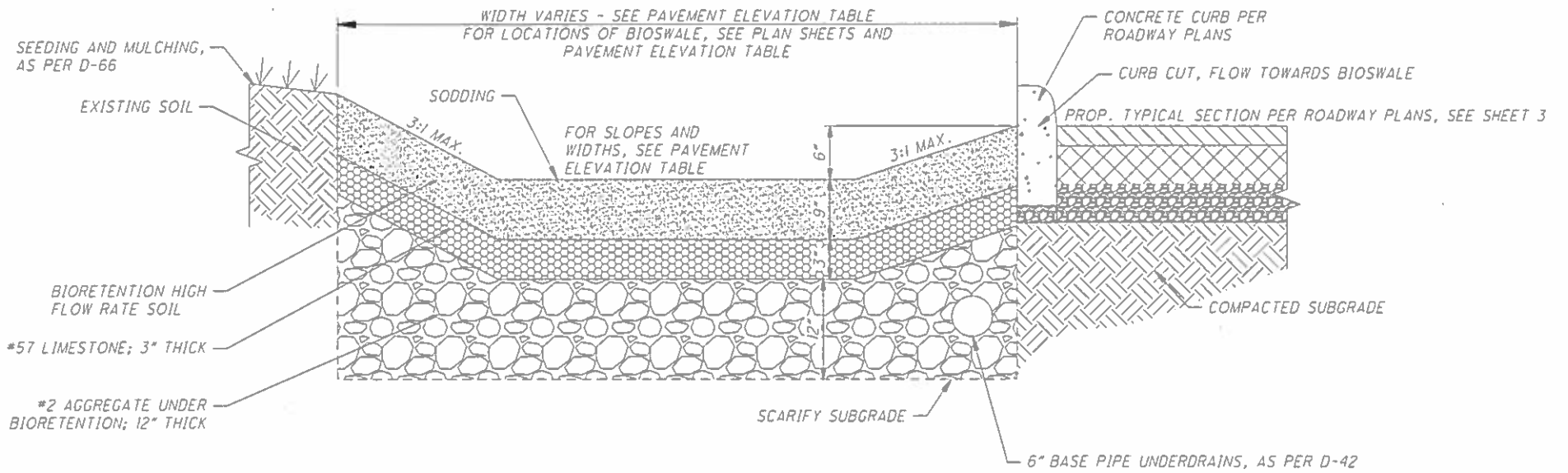
ITEM SPECIAL - BIOSWALE, COMPLETE IN PLACE

ALL APPLICABLE PROVISIONS OF ITEM 601 SHALL APPLY AND AS MODIFIED BELOW AND IN THE DETAILS SHOWN IN THESE PLANS.

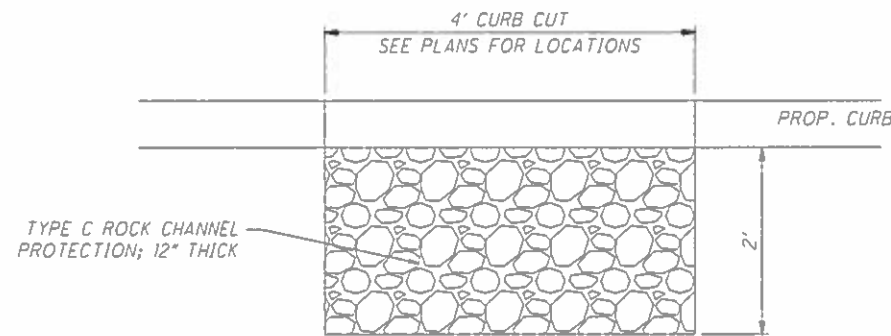
WORK PERFORMED UNDER THIS ITEM SHALL INCLUDE THE FOLLOWING ITEMS, PER THE 2016 ODOT CMS, AT NO ADDITIONAL COST TO THE CITY:

- BIORETENTION HIGH FLOW RATE SOIL
- #57 LIMESTONE
- #2 AGGREGATE
- 203, EXCAVATION AND EMBANKMENT

PAYMENT SHALL BE MEASURED IN SQUARE FEET AS INDICATED IN THE PAVEMENT ELEVATION TABLE AND ON THE PLANS. PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO CONSTRUCT THE NEW BIOSWALE, COMPLETE IN PLACE AS SHOWN IN THE DETAILS ON THIS SHEET.



BIOSWALE TYPICAL SECTION DETAIL
N.T.S.



BIOSWALE PLAN DETAIL
N.T.S.

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GENERAL NOTES

CUY E. 59TH ST. REHABILITATION

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SHEET NUMBER										ITEM	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	ESB CHECKED	DEN
10	16	17	23														
										WATER WORK							
		1			638	1	EACH	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE, AS PER D-39		8							
		2			638	2	EACH	FIRE HYDRANT ADJUSTED TO GRADE, AS PER D-39		8							
		6	2		638	8	EACH	VALVE BOX ADJUSTED TO GRADE, AS PER D-39		8							
		3			638	3	EACH	SERVICE BOX ADJUSTED TO GRADE, AS PER D-39		8							
		1	1		638	2	EACH	WATER WORK, MISC. WATER MANHOLE ADJUSTED TO GRADE, AS PER D-39		8							
										TRAFFIC CONTROL							
				24.0	630	24.0	FT	GROUND MOUNTED SUPPORT, NO. 2 POST									
				3.0	630	3.0	SF	SIGN, FLAT SHEET									
				0.03	644	0.03	MILE	EDGE LINE, 4"									
				0.12	644	0.12	MILE	CENTER LINE									
				14	644	14	FT	STOP LINE									
				192	644	192	FT	CROSSWALK LINE									
				50	644	50	FT	PARKING LOT STALL MARKING									
										INCIDENTALS							
					614	LUMP		MAINTAINING TRAFFIC									
		6			619	6	MONTH	FIELD OFFICE, TYPE B, AS PER D-45									
	LUMP				623	LUMP		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER D-47		10							
					624	LUMP		MOBILIZATION									
	LUMP				SPECIAL	LUMP		AS-BUILT CONSTRUCTION PLANS, AS PER D-77		10							
					SPECIAL	LUMP		PRECONSTRUCTION AUDIO-VIDEO, AS PER D-36									
					SPECIAL	LUMP		FA-I ENGINEERING & CONSTRUCTION FORCE ACCOUNT (AS PER D-13)									

GENERAL SUMMARY

CUY E. 59TH ST. REHABILITATION

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SHEET NO.	STATION TO STATION		SIDE	LENGTH (L) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) (A = L x W) SF	CADD GENERATED AREA SF	6" BASE EXTENSION SF	18" BASE EXTENSION SF	20" BASE EXTENSION SF	202	202	204	254	302	304	305	407	441	441	441	452	609	609
											BRICK BASE REMOVED, AS PER D-15 SY	CURB REMOVED, AS PER PLAN FT	SUBGRADE COMPACTION SY	PAVEMENT PLANING, ASPHALT CONCRETE AND CONCRETE, AS PER PLAN (T = 3') SY	6" ASPHALT CONCRETE BASE, PG64-22, AS PER D-29 CY	6" AGGREGATE BASE, AS PER PLAN CY	6" CONCRETE BASE, AS PER D-23 AND D-24 SY	TACK COAT (REFER TO ODOT CMS TABLE 407.06-1) GAL	1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M, AS PER D-29 SY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (0" MIN TO 1.75" MAX), PG64-22, AS DIRECTED, AS PER D-29 CY	1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22, AS PER D-29 CY	9" NON-REINFORCED CONCRETE PAVEMENT, AS PER D-23 AND D-24 SY	CURB, TYPE 2-A, AS PER D-24 FT	CURB, TYPE 6, AS PER D-24 FT
E. 59TH ST. RESURFACING																								
16	10+83.00	12+98.00	LT	215.00	14	3010				359	48	215	88	335	8	15		47	12	3	17			215
16	12+98.00	14+06.00	LT	108.00	14	1512					24	108	24	168	4	4		24	6	2	9			108
16	14+06.00	15+00.00	LT	94.00	14	1316				157	21	94	39	147	4	7		21	6	2	8			94
17	15+00.00	16+37.10	LT	137.10	14	1920				229	31	138	56	214	6	10	4	30	8	2	11			138
E. 59TH ST. ON STREET PARKING																								
16	12+98.00	13+08.00	LT	14	CADD		50	7	21				8									7	14	
16	13+08.00	13+96.00	LT	88	10	880		44	132				113									103	88	
16	13+96.00	14+06.00	LT	14	CADD		50	7	21				8									7	14	
E. 59TH ST. RECONSTRUCTION																								
17	16+37.10	17+09.11	LT	72.01	14	1008					113		113	113								113		
17	16+37.10	17+09.11	LT	104.12	CADD		859	53	174	46	117	115	46									102	105	
17	16+37.10	16+62.07	RT	24.97	14	350		13	42	39	80	44	39									41	25	
17	16+62.07	17+09.11	RT	47.04	14	659				74		74	74									74		
17	16+62.07	17+09.11	RT	82.71	CADD		237	42	138	27	82.71	42	27									31	83	
TOTALS CARRIED TO GENERAL SUMMARY											547	1390	950	2026	44	165	8	243	63	16	88	478	329	1110

PAVEMENT CALCULATIONS	CALCULATED ESB CHECKED DEN
CUY E. 59TH ST. REHABILITATION	13 61

NOTIFICATION

THE CONTRACTOR SHALL NOTIFY IN WRITING THE FOLLOWING AGENCIES AT LEAST TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION, AND AT LEAST SEVENTY-TWO (72) HOURS BEFORE IMPLEMENTING ANY SUBSTANTIAL CHANGES IN TRAFFIC PATTERNS OR CLOSING OF ANY STREET TO TRAFFIC.

CITY OF CLEVELAND
DIVISION OF ENGINEERING AND CONSTRUCTION
(216) 664-2381
DEPARTMENT OF PUBLIC WORKS
(216) 664-2485
DIVISION OF TRAFFIC ENGINEERING
(216) 664-3195

CITY OF CLEVELAND DEPARTMENT OF PUBLIC SAFETY
DIVISION OF EMERGENCY MEDICAL SERVICES (EMS)
(216) 644-2555
DIVISION OF FIRE
(216) 644-6800
DIVISION OF POLICE
(216) 623-5000

CLEVELAND METROPOLITAN SCHOOL DISTRICT
(216) 838-0000

OHIO DEPARTMENT OF TRANSPORTATION PUBLIC INFORMATION
(216) 581-2100

GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY (RTA)
(216) 566-5084

SEQUENCE OF CONSTRUCTION

PHASE 1:

THE CONTRACTOR SHALL CLOSE E. 59TH ST. BETWEEN EUCLID AVE. AND CHESTER AVE. TRAFFIC SHALL BE DETOURED UTILIZING EUCLID AVE., E. 55TH ST. AND CHESTER AVE.

THE CONTRACTOR SHALL CLOSE THE WESTBOUND EUCLID AVE. LEFT TURN LANE AT THE E. 59TH ST. INTERSECTION WITHOUT AFFECTING THE EUCLID AVE. THRU BUS LANES. THE CONTRACTOR SHALL CLOSE THE WESTBOUND CHESTER AVENUE LEFT TURN LANE AT THE E. 59TH ST. INTERSECTION. THE CONTRACTOR SHALL CLOSE THE EASTBOUND RIGHT LANE OF CHESTER AVENUE AT E. 59TH STREET UTILIZING STANDARD CONSTRUCTION DRAWING MT-95.30. ALL WORK UP TO AND INCLUDING THE ASPHALT INTERMEDIATE COURSE SHALL BE COMPLETED WHILE E. 59TH ST. IS UNDER FULL CLOSURE.

DRIVEWAY ACCESS FOR UNIVERSITY HOSPITALS RAINBOW CENTER SHALL BE MAINTAINED ON E. 57TH ST. DRIVEWAY ACCESS FOR LINK59 CAMPUS AT THE NORTHEAST CORNER OF E. 59TH ST. SHALL BE MAINTAINED ON E. 61ST ST.

PHASE 2:

THE CONTRACTOR SHALL THOROUGHLY CLEAN THE ASPHALT INTERMEDIATE COURSE ALONG THE ENTIRE PROJECT LENGTH OF E. 59TH ST. THE CONTRACTOR SHALL PLACE THE ASPHALT SURFACE COURSE IN A CONTINUOUS OPERATION, FULL-WIDTH, FACE OF CURB TO FACE OF CURB, TO MINIMIZE LONGITUDINAL COLD JOINTS WHILE E. 59TH ST. IS UNDER FULL CLOSURE.

PHASE 3:

THE CONTRACTOR SHALL COMPLETE ANY REMAINING PROJECT IMPROVEMENTS. THE CONTRACTOR SHALL PLACE THE PERMANENT PAVEMENT MARKINGS AND PERMANENT SIGNAGE. AFTER COMPLETION OF ALL PROJECT IMPROVEMENTS, THE CONTRACTOR SHALL REMOVE THE E. 59TH ST. DETOUR AND OPEN THE STREET TO ALL VEHICULAR AND PEDESTRIAN TRAFFIC.

ITEM 614 - MAINTAINING TRAFFIC

THIS ITEM SHALL INCLUDE MAINTAINING TRAFFIC ON EXISTING ROADWAYS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

THE CONTRACTOR SHALL MAINTAIN ADEQUATE PEDESTRIAN ACCESS IN ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING MT-110.10.

ALL WORK ZONE TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, LIGHTING, FLAGGERS, PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PROVIDED SO AS TO AVOID DAMAGE AND/OR INJURY TO VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION.

EXISTING TRAFFIC CONTROL DEVICES (SIGNS AND/OR TRAFFIC SIGNALS), LOCATED WITHIN THE WORK AREA WHICH ARE REQUIRED FOR INTERIM OR PERMANENT TRAFFIC CONTROL, SHALL BE RELOCATED TO POINTS APPROVED BY THE ENGINEER. APPROPRIATE TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED IN COMPLIANCE WITH THE ODOT AT ALL TIMES WHILE TRAFFIC IS MAINTAINED.

THE CONTRACTOR SHALL DIVERT TRAFFIC FROM NORMAL CHANNELS BY THE USE OF PLASTIC DRUMS, WORK ZONE SIGNS, PAVEMENT MARKINGS AND FLASHING ARROW BOARDS COMPLYING WITH ODOT C&MS 614.

THE PLACEMENT OF THE SIGNS AND THE DRUMS SHALL BE MADE SIMULTANEOUSLY. NO DRUMS SHALL BE PLACED WITHOUT PROPER SIGNAGE IN PLACE. CONFLICTING SIGNING SHALL BE COVERED.

ALL WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) CURRENT EDITION, LATEST REVISION. ALL WORK ZONE SIGNS, SUPPORTS, PAVEMENT MARKINGS, AND OTHER WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR. MERGING TAPER LENGTHS AND SHIFTING TAPER LENGTHS SHALL BE CALCULATED USING THE EQUATIONS SHOWN IN THE ODOT, SECTION 6C.08. PAYMENTS FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC (UNLESS SEPARATELY ITEMIZED IN THE PLAN).

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR INFORMATIONAL PURPOSES:

ITEM 616 - WATER 20 MGAL
ITEM 616 - CALCIUM CHLORIDE 1.5 TON

ITEM - MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS FOURTH OF JULY
NEW YEARS LABOR DAY
MEMORIAL DAY THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF THE WEEK TIME ALL LANES MUST BE OPEN TO TRAFFIC

SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY	6:00AM WEDNESDAY THROUGH 6:00 AM MONDAY (THANKSGIVING ONLY)
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

ITEM 614 - MAINTAINING TRAFFIC (WINTER TIME LIMITATIONS)

ALL EXISTING LANES SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE ORIGINAL OR PROPOSED FINAL ALIGNMENT BETWEEN OCTOBER 15 AND APRIL 1. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$200 PER CALENDAR DAY.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614 - MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURE	>=2 WEEKS >12 HOURS & <2 WEEKS <12 HOURS	14 CALENDAR DAYS PRIOR TO CLOSURE 7 CALENDAR DAYS PRIOR TO CLOSURE 2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

DETOUR SIGNING

THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, AND SUBSEQUENTLY REMOVE SIGNS, SIGN SUPPORTS, AND BARRICADES OF THE TYPE AND LOCATION SHOWN IN THESE PLANS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

FAILURE TO COMPLY

IF THERE IS ANY FAILURE TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS OUTLINED IN THESE PLANS AND NOTES OR WITH THE PROVISIONS OF THE ODOT, THE ROADWAY IN THE VICINITY OF THE WORK AREA SHALL NOT BE CONSIDERED TO BE IN A CONDITION FOR SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC. ANY FAILURE TO KEEP THE ROADWAY IN THE VICINITY OF THE WORK AREA IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC SHALL BE CONSIDERED A BREACH OF CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISIONS OF THE AFOREMENTIONED ITEMS.

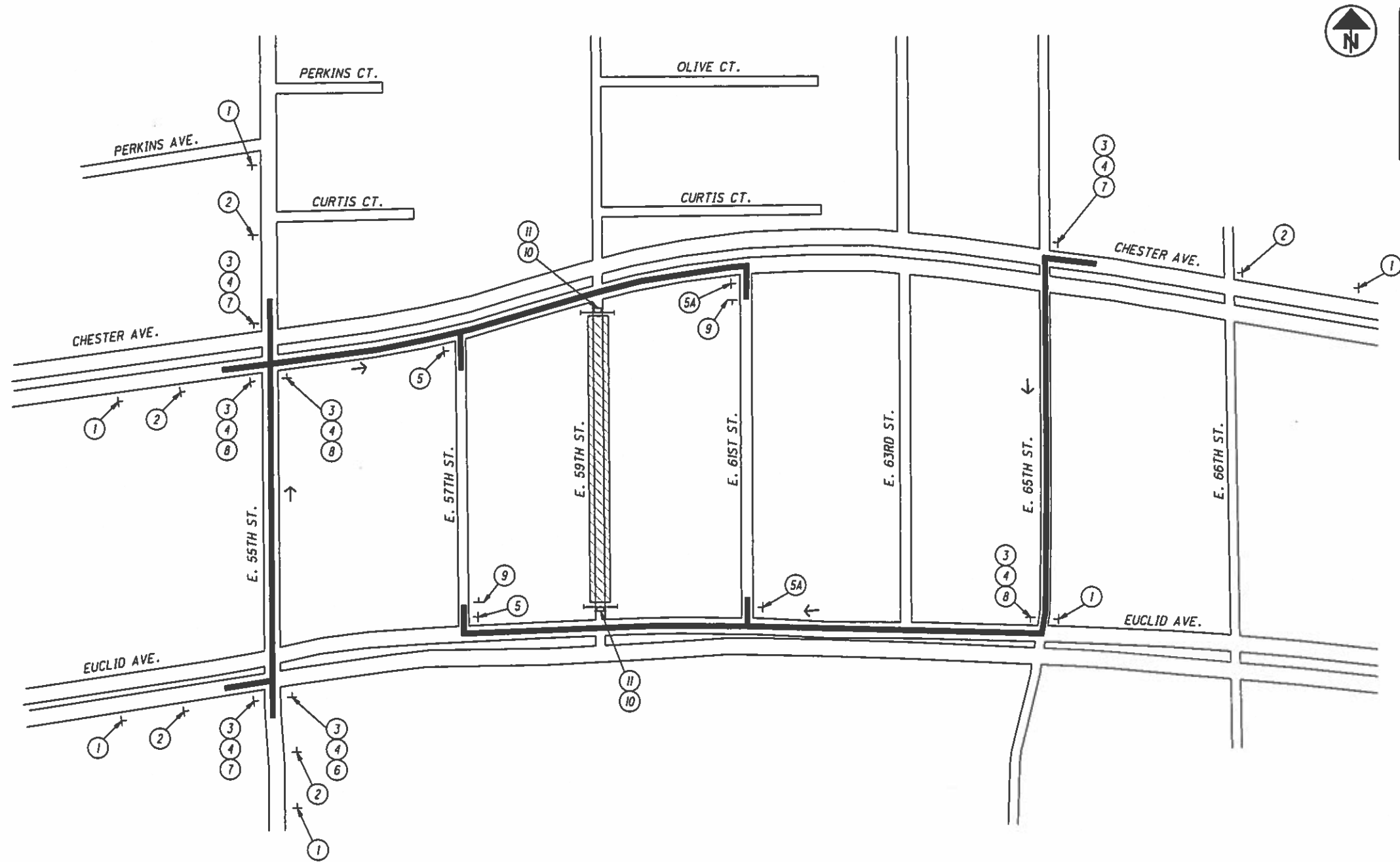
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CALCULATED
SLB
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LOB

MAINTENANCE OF TRAFFIC NOTES

CUY E. 59TH ST. REHABILITATION

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DETOUR LEGEND	
	SIGN
	TYPE 3 BARRICADE
	WORK AREA
	DETOUR ROUTE

E. 59TH STREET
CLOSED BETWEEN
EUCLID AND CHESTER
FOLLOW DETOUR

SPECIAL
66" X 30"

1



TYPE 'A' WARNING LIGHT
W20-2-36

2

E. 59TH ST

D3-1-42

3

DETOUR

M4-8-30

4

UH RAINBOW
CENTER
PARKING
→

SPECIAL
60" X 42"

5

LINK 59
CAMPUS
PARKING
→

SPECIAL
54" X 42"

5A



M6-3-30

6



M4-9L-30

7



M4-9R-30

8

END
DETOUR

M4-8a-24

9



M4-10L-48

10

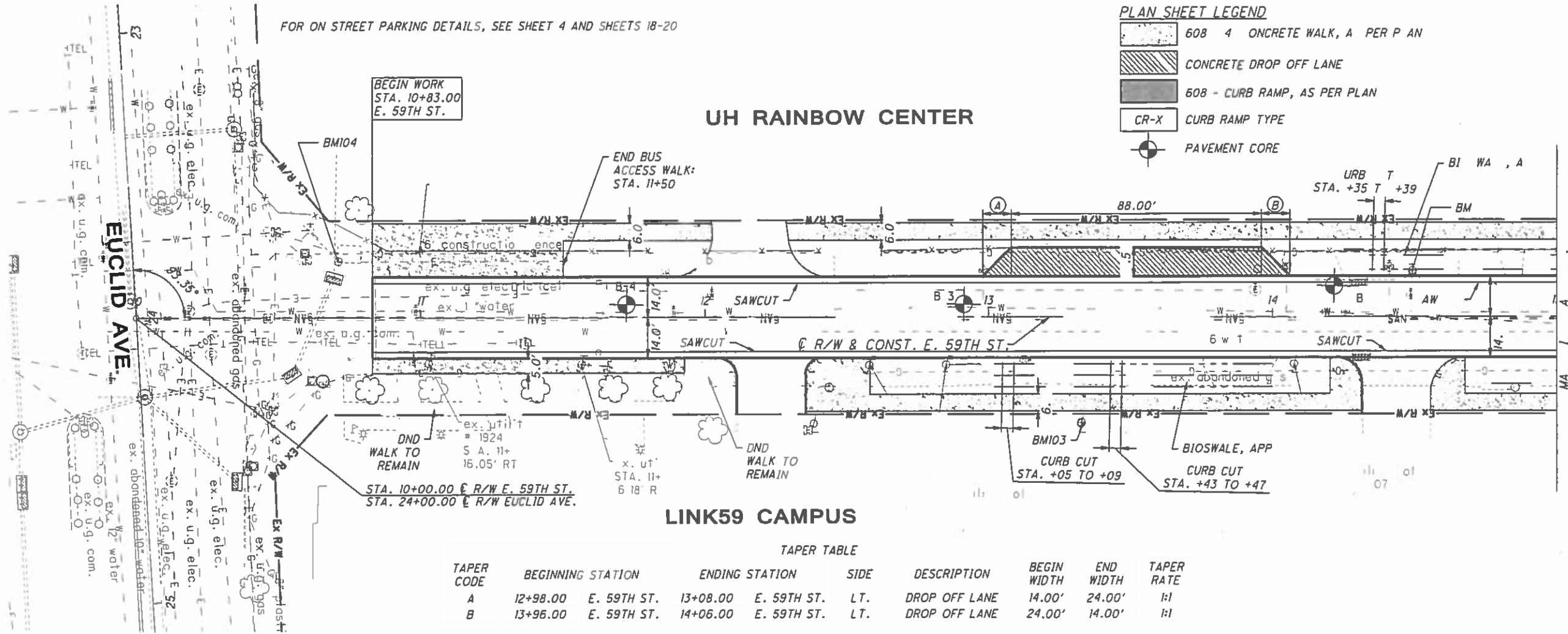


R11-2-48
(SOLID ACROSS EASTBOUND LANE)

11

CALCULATED SLB CHECKED LOB
 MAINTENANCE OF TRAFFIC DETOUR PLAN
 CUY E. 59TH ST. REHABILITATION
 15
 61

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TAPER TABLE

TAPER CODE	BEGINNING STATION	ENDING STATION	SIDE	DESCRIPTION	BEGIN WIDTH	END WIDTH	TAPER RATE
A	12+98.00 E. 59TH ST.	13+08.00 E. 59TH ST.	LT.	DROP OFF LANE	14.00'	24.00'	1:1
B	13+96.00 E. 59TH ST.	14+06.00 E. 59TH ST.	LT.	DROP OFF LANE	24.00'	14.00'	1:1

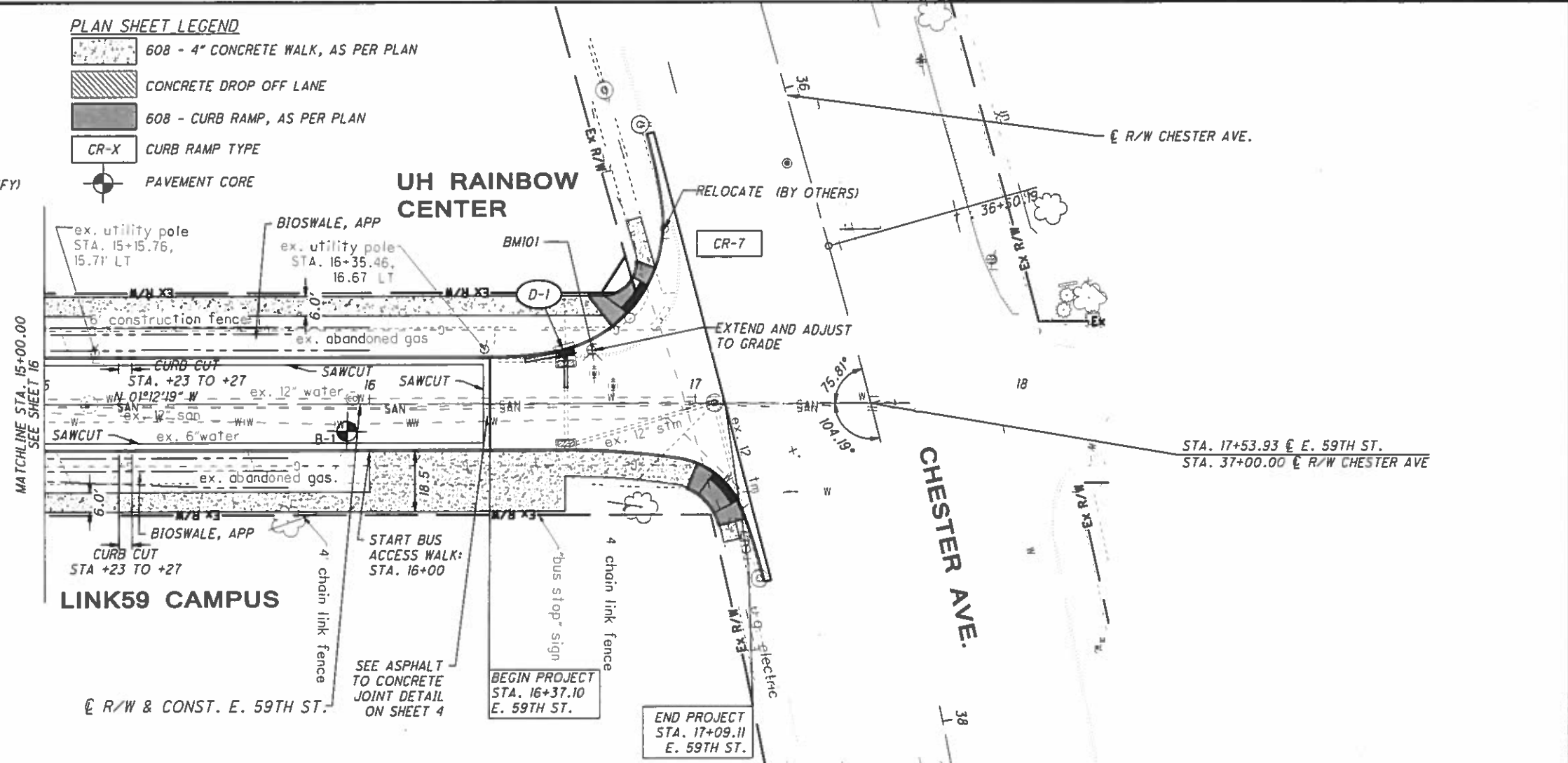
STATION	SIDE	DESCRIPTION																			
		PAVEMENT REMOVED (CONCRETE APRONS), AS DIRECTED, AS PER D-15	WALK REMOVED, AS PER PLAN	CATCH BASIN REMOVED, AS PER PLAN	LINEAR GRADING, AS PER PLAN, AS PER D-20	6" BASE PIPE UNDERDRAINS, AS PER D-42	4" CONCRETE WALK, AS PER D-23, D-24 AND D-76	CURB RAMP, AS PER PLAN, AS PER D-75 AND D-76	12" CONDUIT, TYPE B, AS PER D-32 AND D-33	CATCH BASIN ADJUSTED TO GRADE, AS PER D-39	CATCH BASIN, CITY OF CLEVELAND NO. 1, AS PER D-34	MANHOLE ADJUSTED TO GRADE, AS PER D-39	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE, AS PER D-39	FIRE HYDRANT ADJUSTED TO GRADE, AS PER D-39	VALVE BOX ADJUSTED TO GRADE, AS PER D-39	SERVICE BOX ADJUSTED TO GRADE, AS PER D-39	WATER WORK, MISC.: WATER MANHOLE ADJUSTED TO GRADE, AS PER D-39	TOPSOIL (4" AVERAGE)	SEEDING AND MULCHING, AS PER D-66	BIOSWALE, COMPLETE IN PLACE	
FROM	TO	SY	SF	EACH	STA	FT	SF	EA	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	CY	SY	F	
10+83.00	15+00.00	143	4847																		
10+83.00	15+00.00					834				2											
10+83.00	15+00.00						5687														
10+83.00	15+00.00													2	6	3	1				
10+83.00	15+00.00																	82	734		
10+83.00	15+00.00					834															1500
10+83.00	15+00.00																				
CARRIED TO SUBSUMMARY		143	4847		834	834	5687			2				2	6	3	1	82	734	1500	

PLAN & ESTIMATED QUANTITIES - E. 59TH ST. BEGIN WORK TO STA. 15+00
 CUY E. 59TH ST. REHABILITATION
 16
 61

D-1
 STA. 16+60.29, 14.81' LT.
 CB-3, RIM ELEV 662.20
 12" (E) 659.13 (FIELD VERIFY)
 12" (S) 659.13 (FIELD VERIFY)
 4" PVC E 660.43 (FIELD VERIFY)

PLAN SHEET LEGEND

- 608 - 4" CONCRETE WALK, AS PER PLAN
- CONCRETE DROP OFF LANE
- 608 - CURB RAMP, AS PER PLAN
- CURB RAMP TYPE
- PAVEMENT CORE



HORIZONTAL SCALE IN FEET

CALCULATED
 DSM
 CHECKED
 DEN

**PLAN & ESTIMATED QUANTITIES - E. 59TH ST.
 STA. 15+00 TO END WORK**

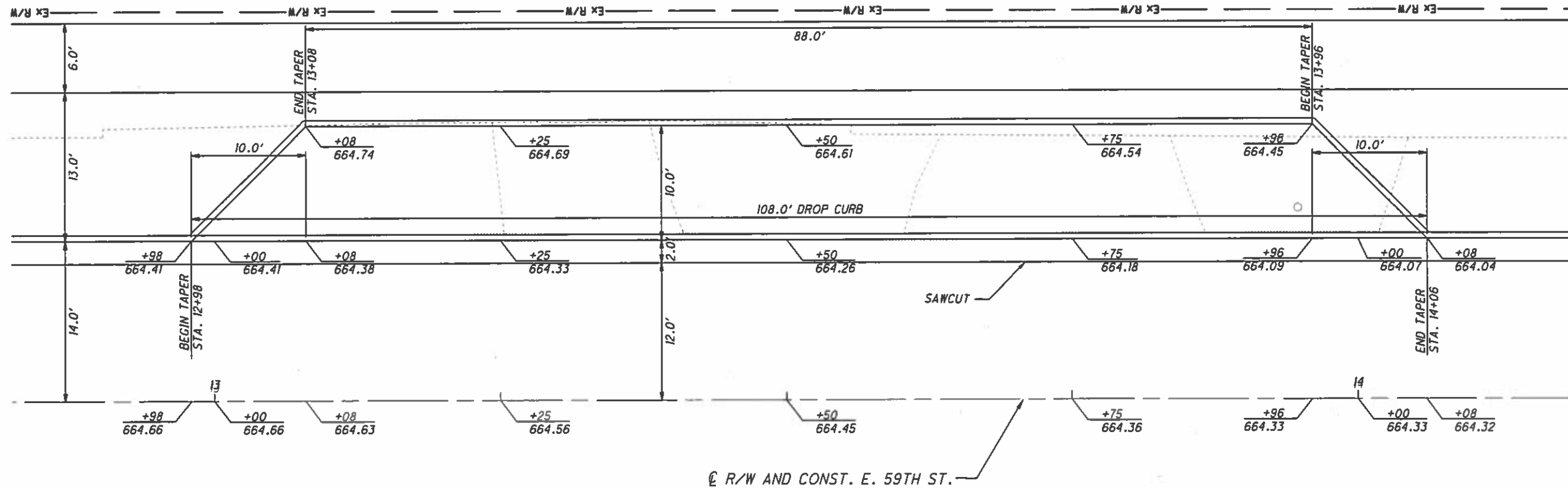
STATION	SIDE	ITEMS																		
		202	202	202	209	605	608	SPECIAL	611	611	611	611	638	638	638	638	638	659	659	SPECIAL
FROM	TO	SY	SF	EACH	STA	FT	SF	EA	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EA	EA	SF
15+00.00	17+09.11	LT / RT	658	2875	1															
15+00.00	17+09.11	LT / RT				489			22	1	1	2								
15+00.00	17+09.11	LT / RT					3125	2												
15+00.00	17+09.11	LT / RT											1		2			1	63	567
15+00.00	17+09.11	LT / RT																		
15+00.00	17+09.11	LT / RT				419														1327
15+00.00	17+09.11	LT / RT																		
CARRIED TO SUBSUMMARY			658	2875	1	419	489	2	22	1	1	2	1		2		1	63	567	1327

CUY E. 59TH ST. REHABILITATION

17
 61

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NOTES
 ALL ELEVATIONS SHOWN ON PAVEMENT
 SURFACE OR BOTTOM FACE OF CURB



HORIZONTAL
SCALE IN FEET

CALCULATED BY
 DSM
 CHECKED
 DEN

DROP OFF LANE DETAIL
 E. 59TH ST.

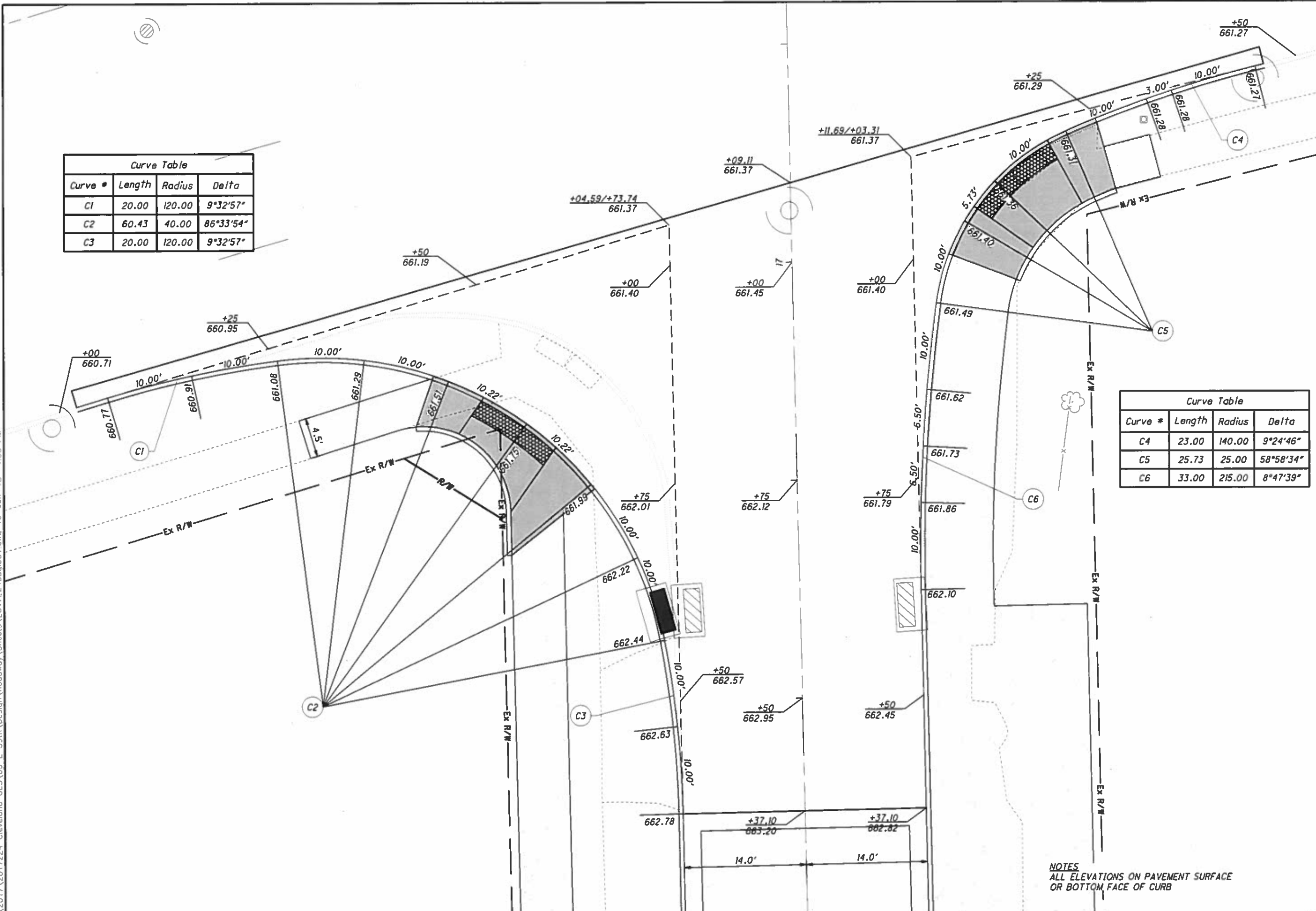
CUY E. 59TH ST. REHABILITATION

18
 61

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Curve Table			
Curve #	Length	Radius	Delta
C1	20.00	120.00	9°32'57"
C2	60.43	40.00	86°33'54"
C3	20.00	120.00	9°32'57"

Curve Table			
Curve #	Length	Radius	Delta
C4	23.00	140.00	9°24'46"
C5	25.73	25.00	58°58'34"
C6	33.00	215.00	8°47'39"



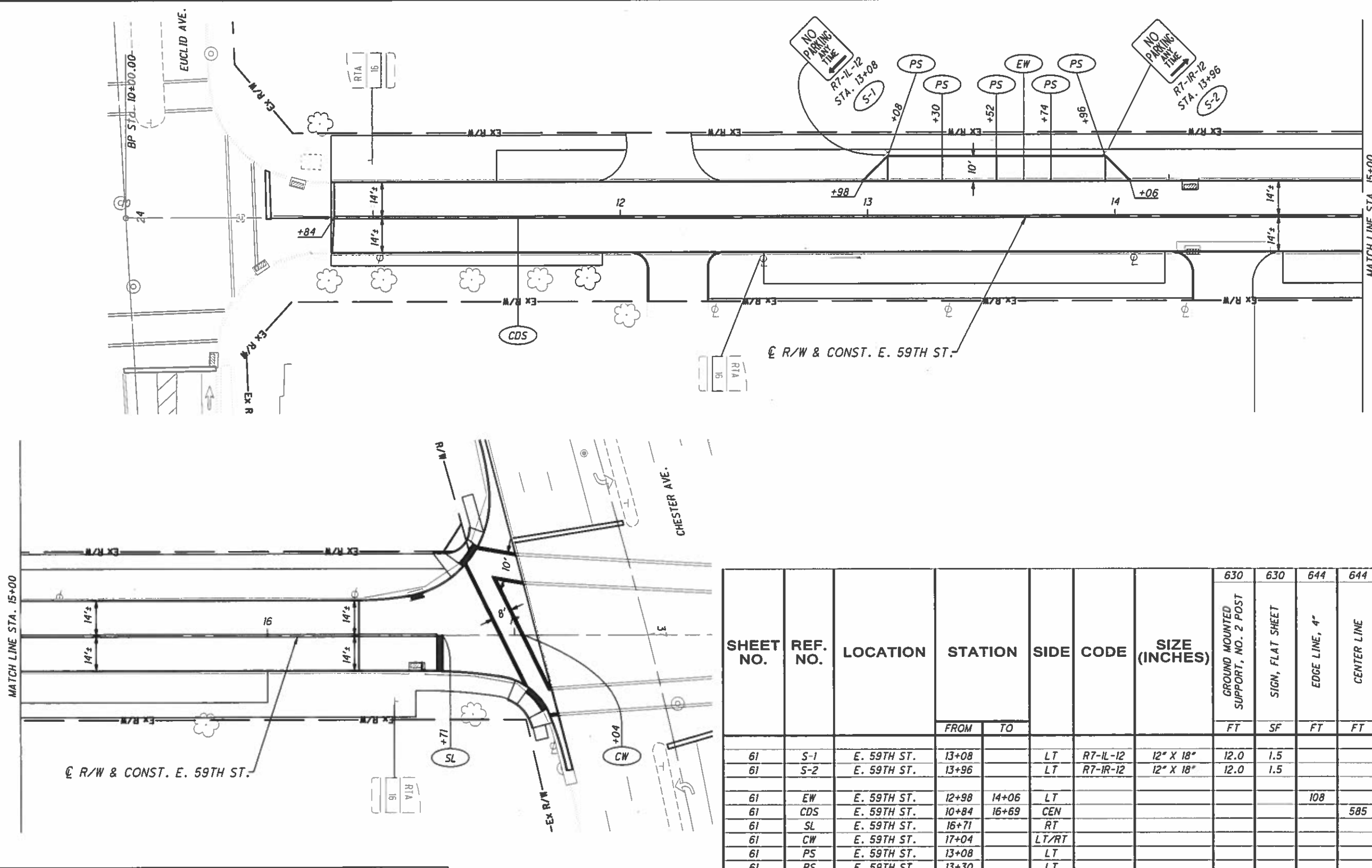
NOTES
 ALL ELEVATIONS ON PAVEMENT SURFACE
 OR BOTTOM FACE OF CURB

INTERSECTION DETAIL
 E. 59TH ST. & CHESTER AVE.

CUI E. 59TH ST. REHABILITATION

21
 61

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LEGEND	
	EXISTING SIGN TO REMAIN
	PROPOSED SIGN
	SIGN SUPPORT
	PROPOSED SIGN
	EDGE LINE, WHITE
	CENTER LINE, DOUBLE SOLID
	STOP LINE
	CROSSWALK LINE
	PARKING LOT STALL MARKING

SHEET NO.	REF. NO.	LOCATION	STATION		SIDE	CODE	SIZE (INCHES)	TRAFFIC CONTROL							
			FROM	TO				GROUND MOUNTED SUPPORT, NO. 2 POST	SIGN, FLAT SHEET	EDGE LINE, 4"	CENTER LINE	STOP LINE	CROSSWALK LINE	PARKING LOT STALL MARKING	
								FT	SF	FT	FT	FT	FT	FT	
61	S-1	E. 59TH ST.	13+08		LT	R7-IL-12	12" X 18"	12.0	1.5						
61	S-2	E. 59TH ST.	13+96		LT	R7-IR-12	12" X 18"	12.0	1.5						
61	EW	E. 59TH ST.	12+98	14+06	LT					108					
61	CDS	E. 59TH ST.	10+84	16+69	CEN						585				
61	SL	E. 59TH ST.	16+71		RT							14			
61	CW	E. 59TH ST.	17+04		LT/RT								192		
61	PS	E. 59TH ST.	13+08		LT									10	
61	PS	E. 59TH ST.	13+30		LT									10	
61	PS	E. 59TH ST.	13+52		LT									10	
61	PS	E. 59TH ST.	13+74		LT									10	
61	PS	E. 59TH ST.	13+96		LT									10	
TOTAL FEET										108	585	14	192	50	
TOTAL MILES										0.03	0.12				
TOTALS CARRIED TO GENERAL SUMMARY								24.0	3.0	0.03	0.12	14	192	50	

HORIZONTAL SCALE IN FEET

0 10 20 40

CALCULATED

SLB

CHECKED

AKF

TRAFFIC CONTROL

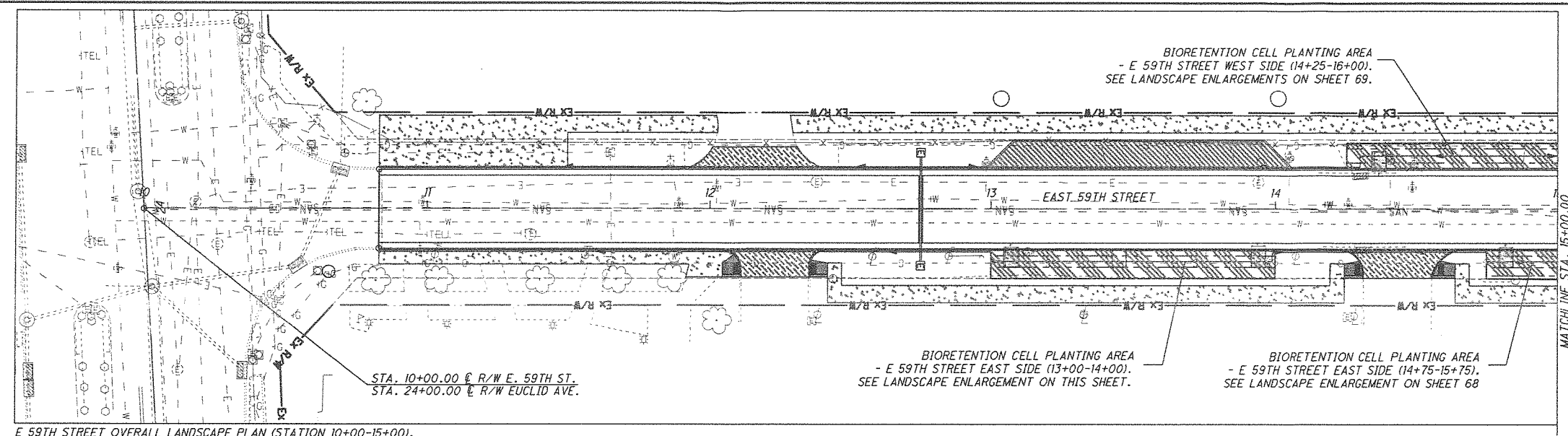
BEGIN TO END

CUY E. 59TH ST. REHABILITATION

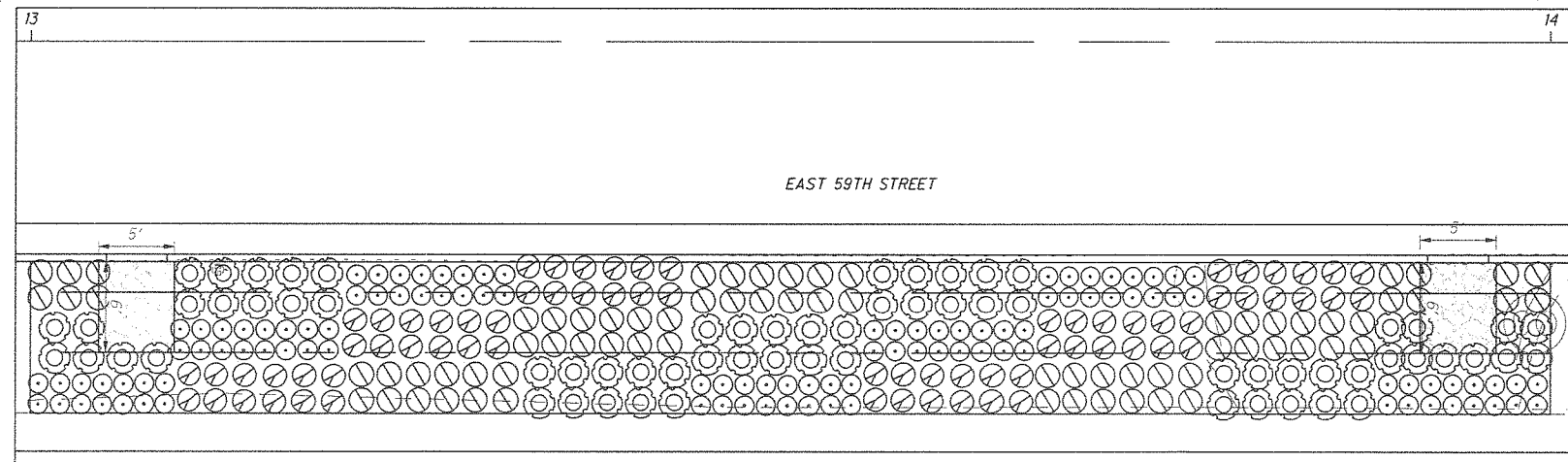
61

61

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E 59TH STREET OVERALL LANDSCAPE PLAN (STATION 10+00-15+00).



BIORETENTION CELL PLANTING AREA ENLARGEMENT (STATION 13+00-14+00).
SEE E 59TH STREET OVERALL LANDSCAPE PLAN ON THIS SHEET (1"=5')

STATION	SIDE	661			
		SCHIZACHYRIUM SCOPARIUM 'PRAIRIE BLUES' - LITTLE BLUE STEM, NO. 1, AS PER PLAN	CAREX VULPINOIDEA FOX SEDGE, NO. 1, AS PER PLAN	IRIS VERSICOLOR, BLUE FLAG IRIS, NO. 1, AS PER PLAN	HEMEROCALLIS SPP. 'STELLA DE ORO' DAYLILY, NO. 1, AS PER PLAN
FROM	TO	EA	EA	EA	EA
13+00.00	14+00.00	72	74	66	110
CARRIED TO GENERAL SUMMARY		72	74	66	110

BIORETENTION CELL PLANTING AREA SUBSUMMARY
- E 59TH STREET EAST SIDE (STATION 13+00-14+00)

PLAN SHEET LEGEND

- SEE SHEET 6 FOR ADDITIONAL INFORMATION
- 608 - 4" CONCRETE WALK, AS PER PLAN. SEE SHEETS 17-18.
 - CONCRETE DROP OFF LANE, SEE SHEET 17.
 - SPECIAL - BIORETENTION CELL PLANTING AREA, CIP. SEE ENLARGEMENTS ON SHEETS 67-69.
 - ODOT TYPE C ROCK CHANNEL PROTECTION AS PER PLAN, SEE SHEET 11.

BIOSWALE PLANTING AREA ENLARGEMENT PLANT SYMBOLS

- IRIS VERSICOLOR BLUE FLAG IRIS, NO. 1
- CAREX VULPINOIDEA FOX SEDGE, NO. 1
- HEMEROCALLIS SPP. 'STELLA DE ORO' DAYLILY, NO. 1
- SCHIZACHYRIUM SCOPARIUM 'PRAIRIE BLUES' LITTLE BLUESTEM, NO. 1

ITEM 661 - LANDSCAPE PLANTINGS, AS PER PLAN

1. PERENNIALS SHALL BE PLANTED PER ODOT ITM 661, AS PER PLAN. BACKFILL SHALL CONSIST OF PLANTING SOIL MEDIA (BIORETENTION SOIL MEDIA). SEE SHEET 11 FOR NOTES.

ITEM 662 - LANDSCAPE WATERING

1. ALL PLANT MATERIAL SHALL BE WATERED PER ODOT CMS ITEM 662.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 662 LANDSCAPE WATERING 4,360 GAL.

NOTE

ALL DISTURBED AREAS NOT TO PAVED OR LANDSCAPED PER SHEETS 67-69 SHALL BE SEEDDED PER CITY OF CLEVELAND D-66. SEE SHEET 17 FOR SEEDING AND MULCHING QUANTITY.

CALCULATED BY: JUB

CHECKED BY: IV

HORIZONTAL SCALE IN FEET

LANDSCAPE PLAN & ESTIMATED QUANTITIES

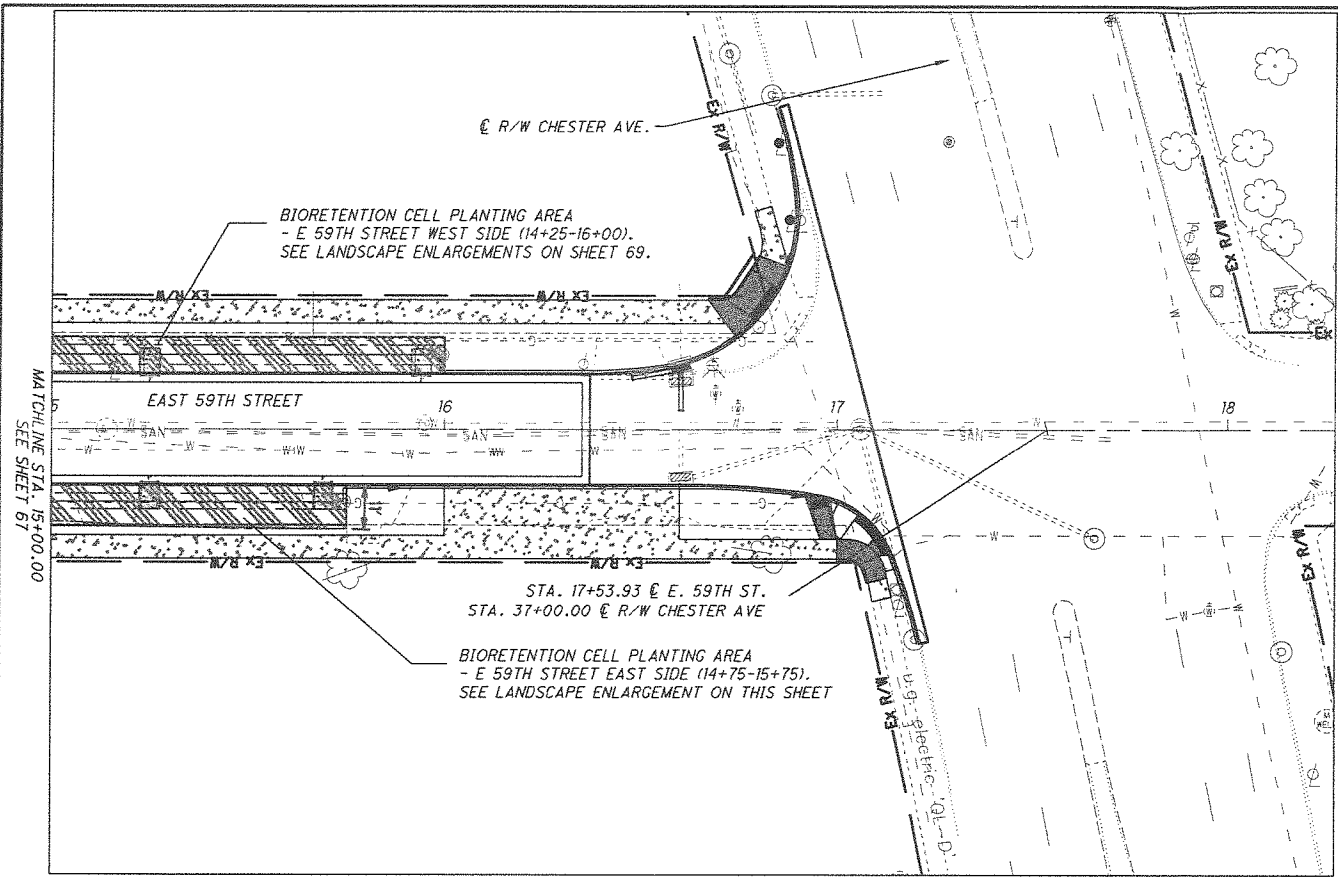
STA 10+00 TO STA 15+00

CUY E. 59TH ST. REHABILITATION

67

69

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E 59TH STREET OVERALL LANDSCAPE PLAN (STATION 15+00-17+53.93).

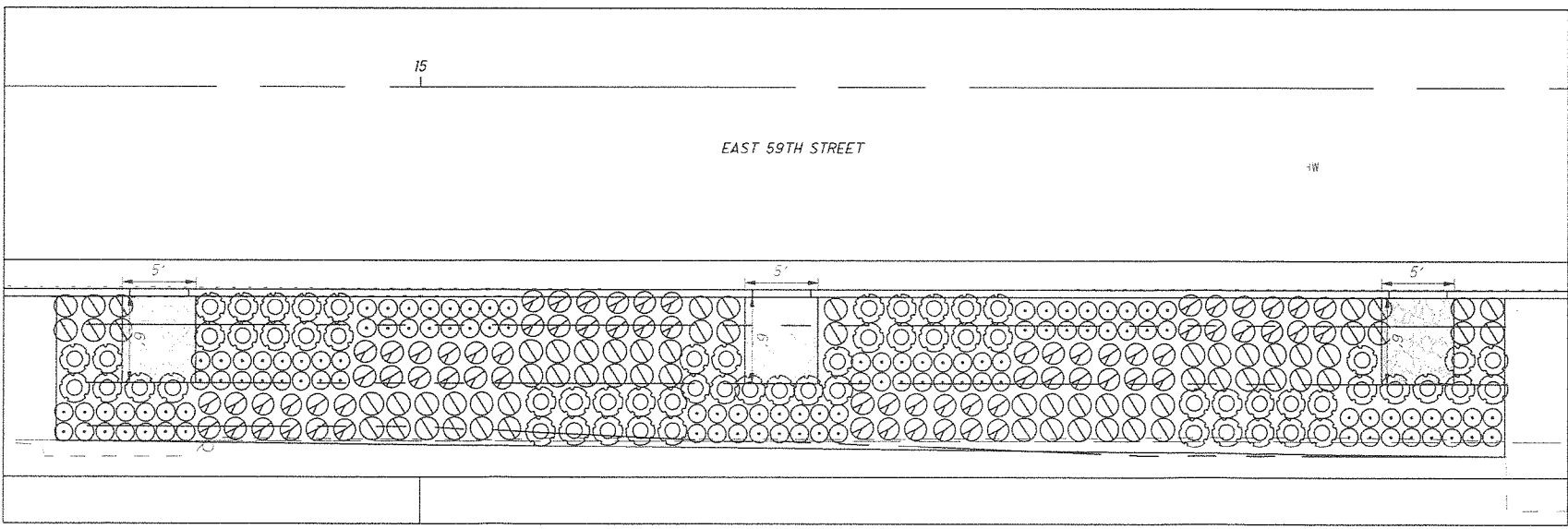
PLAN SHEET LEGEND

SEE SHEET 6 FOR ADDITIONAL INFORMATION

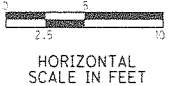
- 608 - 4" CONCRETE WALK, AS PER PLAN. SEE SHEETS 17-18.
- CONCRETE DROP OFF LANE, SEE SHEET 17.
- SPECIAL - BIORETENTION CELL PLANTING AREA, CIP. SEE ENLARGEMENTS ON SHEETS 67-69.
- ODOT TYPE C ROCK CHANNEL PROTECTION AS PER PLAN, SEE SHEET 11.

BIOSWALE PLANTING AREA ENLARGEMENT PLANT SYMBOLS

- IRIS VERSICOLOR
BLUE FLAG IRIS, NO. 1
- CAREX VULPINOIDEA
FOX SEDGE, NO. 1
- HEMEROCALLIS SPP. 'STELLA DE ORO'
DAYLILY, NO. 1
- SCHIZACHYRIUM SCOPARIUM 'PRAIRIE BLUES'
LITTLE BLUESTEM, NO. 1



BIORETENTION CELL PLANTING AREA ENLARGEMENT - E 59TH STREET EAST SIDE (STATION 14+75-15+75).
SEE E 59TH STREET OVERALL LANDSCAPE PLAN ON THIS SHEET AND ON SHEET 67.
(1"=5')



STATION	SIDE	661	661	661	661	
		SCHIZACHYRIUM SCOPARIUM 'PRAIRIE BLUES' LITTLE BLUE STEM, NO. 1, AS PER PLAN	CAREX VULPINOIDEA FOX SEDGE, NO. 1, AS PER PLAN	IRIS VERSICOLOR, BLUE FLAG IRIS, NO. 1, AS PER PLAN	HEMEROCALLIS SPP. 'STELLA DE ORO' DAYLILY, NO. 1, AS PER PLAN	
FROM	TO	EA	EA	EA	EA	
14+75.00	15+75.00	RT	72	68	63	110
CARRIED TO GENERAL SUMMARY			72	68	63	110

BIORETENTION CELL PLANTING AREA SUBSUMMARY
- E 59TH STREET EAST SIDE (STATION 14+75-15+75).

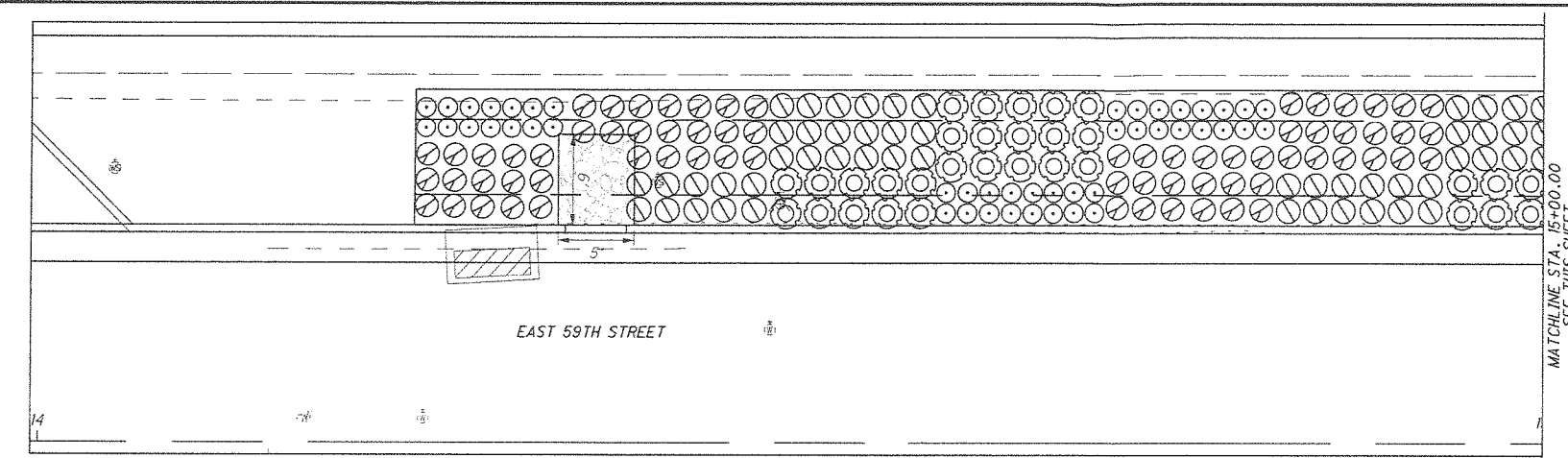
LANDSCAPE PLAN & ESTIMATED QUANTITIES
STA. 15+00 TO END WORK - PART A

20
10
0
10
20
HORIZONTAL SCALE IN FEET

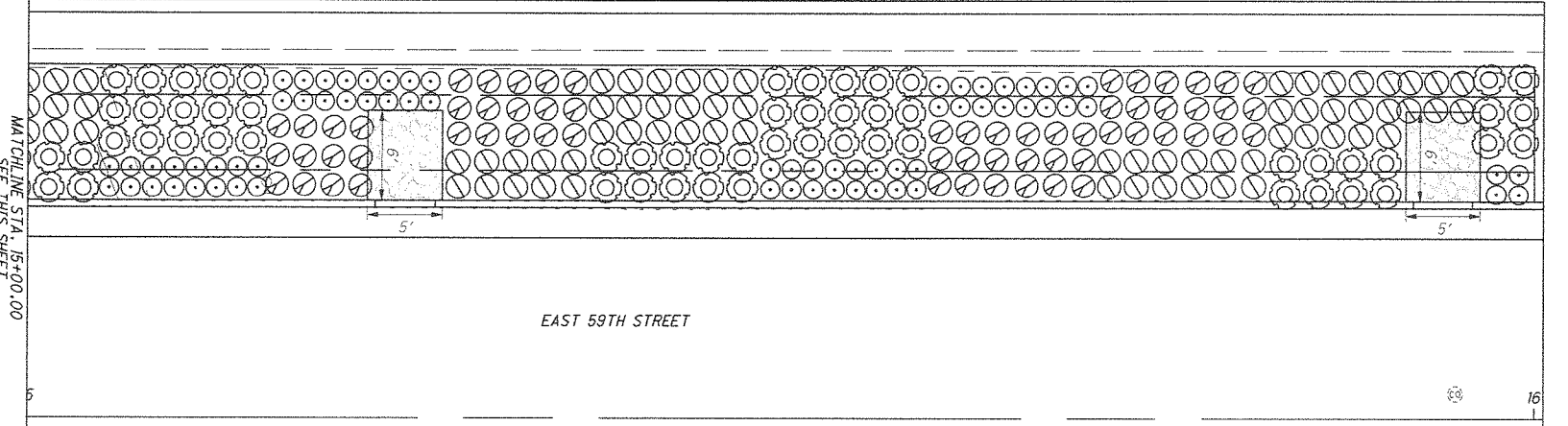
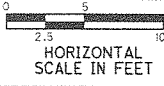
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CUY E. 59TH ST. REHABILITATION

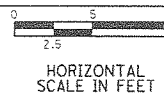
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BIORETENTION CELL PLANTING AREA ENLARGEMENT - 59TH STREET WEST SIDE (14+25-15+00).
 SEE E 59TH STREET OVERALL LANDSCAPE PLAN ON SHEET 67 AND 68.
 (1"=5')



BIORETENTION CELL PLANTING AREA ENLARGEMENT - E 59TH STREET WEST SIDE
 (15+00-16+00). SEE E 59TH STREET OVERALL LANDSCAPE PLAN ON SHEET 67 AND 68.
 (1"=5')



STATION	SIDE	PLANTING QUANTITIES			
		661 SCHIZACHYRIUM SCOPARIUM 'PRAIRIE BLUES' LITTLE BLUE STEM, NO. 1, AS PER PLAN	661 CAREX VULPINOIDEA FOX SEDGE, NO. 1, AS PER PLAN	661 IRIS VERSICOLOR, BLUE FLAG IRIS, NO. 1, AS PER PLAN	661 HEMEROCALLIS SPP. 'STELLA DE ORO' DAYLILY, NO. 1, AS PER PLAN
FROM	TO	EA	EA	EA	EA
14+75.00	15+75.00	133	119	89	114
CARRIED TO GENERAL SUMMARY		133	119	89	114

BIORETENTION CELL PLANTING AREA SUBSUMMARY
 - E 59TH STREET WEST SIDE (STATION 14+25-16+00).

PLAN SHEET LEGEND

- SEE SHEET 6 FOR ADDITIONAL INFORMATION
- ODOT TYPE C ROCK CHANNEL PROTECTION AS PER PLAN, SEE SHEET 11.
 - BIOSWALE PLANTING AREA ENLARGEMENT PLANT SYMBOLS**
 - IRIS VERSICOLOR
BLUE FLAG IRIS, NO. 1
 - CAREX VULPINOIDEA
FOX SEDGE, NO. 1
 - HEMEROCALLIS SPP. 'STELLA DE ORO'
DAYLILY, NO. 1
 - SCHIZACHYRIUM SCOPARIUM 'PRAIRIE BLUES'
LITTLE BLUESTEM, NO. 1

CUY E. 59TH ST. REHABILITATION

PLAN & ESTIMATED QUANTITIES - E. 59TH ST.
 STA. 15+00 TO END WORK - PART B

HORIZONTAL
 SCALE IN FEET

CALCULATED
 JLB

CHECKED
 IV