

BU-15B - ROADWAY & PAVEMENT- MCTECH PARKING LOT
...\\BU-15B\\96833_GTO15B.dgn 1/27/2020 10:20:17 AM Gregory.Hertler



LOCATION MAP

LATITUDE: 41°29'08" LONGITUDE: 81°37'22"



PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

CURRENT ADT (2017)	35,820
DESIGN YEAR ADT (2020)	48,230
DESIGN HOURLY VOLUME (2020)	3,580
DIRECTIONAL DISTRIBUTION	58%
TRUCKS (24 HOUR B&C)	6%
DESIGN SPEED	40 MPH
LEGAL SPEED	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

Call Before You Dig
1-800-362-2764
OHIO Utilities Protection SERVICE
(Non-members must be called directly)

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



The Kokosing Design-Build Team
Kokosing | Michael Baker | Richland Engineering | Brownstone Grey

ENGINEERS SEAL:



SIGNED: *Gregory S. Hertler*
DATE: 01/29/2019

ENGINEERS SEAL:

SIGNED: _____
DATE: _____

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
CUY-IR490/ SR010-2.09 / 19.28
CITY OF CLEVELAND
CUYAHOGA COUNTY

INDEX OF SHEETS:

SEE SHEET 2

BU-15B
ROADWAY AND PAVEMENT:
MCTECH PARKING LOT

PLAN PREPARED BY:

Michael Baker

INTERNATIONAL

1111 SUPERIOR AVENUE EAST, SUITE 2300
CLEVELAND, OHIO 44114



CONSULTING ENGINEERING, INC.
13477 PROSPECT ROAD #214
STRONGSVILLE, OH 44149

ODOT STANDARD CONSTRUCTION DRAWINGS	CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWINGS		ODOT SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-2.1 07/17/15	CONC-1 07/08/08	A-503 07/08/08	800 07/15/16	
BP-2.2 07/18/08	ASPH-1 07/08/08	A-605 07/08/08	875 01/17/14	
BP-2.5 07/19/13	BP-1 04/14/08	A-695 07/08/08	878 07/15/16	
BP-4.1 07/19/13	PR-1 08/03/09	MB-1C 10/15/14		
BP-5.1 07/19/13	CR-1 12/08/09			
BP-7.1 07/18/14	CD-1 12/03/09			
	146-ME 07/08/08			
F-1.1 07/19/13	MH-1 07/08/08		ODOT SUPPLEMENTS	
RM-1.1 07/18/14	CB-1 07/08/08			
DM-4.3 01/15/16				

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 2.09 MILES OF A NEW TWO- TO THREE-LANE BOULEVARD FROM E. 55TH ST. TO E. 93RD ST. WORK INCLUDES PAVEMENT, RAILROAD, STRUCTURES, DRAINAGE, WATERWORK, LIGHTING, POWER DISTRIBUTION, TRAFFIC CONTROL, LANDSCAPING, AND ADJUSTMENT OF EXISTING UTILITIES.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 87.2 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 87.2 ACRES
(AREA SERVICED BY COMBINED SEWER)

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.

0	2020-01-29	RFC
NO.	DATE	DESCRIPTION
ISSUE RECORD		

CONSTRUCTION PROJECT NO.

17-3000

RAILROAD INVOLVEMENT

NORFOLK SOUTHERN
GCRTA

CUY-IR490/ SR010-

2.09 / 19.28

FEDERAL PROJECT NO.

E140 (249)

PID NO.

96833

RECORD PLANS

RECORD PLANS

RECORD PLANS

REV.	DATE	REV.	DESCRIPTION
0	2020-01-29	1	TITLE SHEET
1	2024-09-10	2	INDEX OF SHEETS
1	2024-09-10	3	SCHEMATIC PLAN - O.C. BLVD. - STA. 177+00.00 TO STA. 202+00.00
0	2020-01-29	4	TYPICAL SECTIONS - MCTECH CORP. PARKING LOT
0	2020-01-29	5	GENERAL NOTES
0	2020-01-29	6	GENERAL NOTES
1	2024-09-10	7	DEMOLITION PLAN - MCTECH CORP. PARKING LOT
1	2024-09-10	8	PARKING LOT DETAIL - MCTECH CORP. PARKING LOT
0	2020-01-29	9	BASLINE PROFILE - MCTECH CORP. PARKING LOT: STA. 0+00.00 TO STA. 5+00.00
0	2020-01-29	10	BASLINE PROFILE - MCTECH CORP. PARKING LOT: STA. 5+00.00 TO STA. 9+77.45
0	2020-01-29	11	PROFILE - RAWLINGS AVE.: STA. 35+00.00 TO 40+60.00
1	2024-09-10	12	GRADING PLAN - MCTECH CORP. PARKING LOT
1	2024-09-10	13	JOINT LAYOUT PLAN - MCTECH CORP. PARKING LOT
1	2024-09-10	14	UTILITY PLAN - MCTECH CORP. PARKING LOT
0	2020-01-29	15	INTERSECTION DETAIL WEST DRIVEWAY - MCTECH CORP. PARKING LOT
0	2020-01-29	16	INTERSECTION DETAIL EAST DRIVEWAY - MCTECH CORP. PARKING LOT

1	2024-09-10	RECORD DRAWINGS
0	2020-01-29	RFC
NO	DATE	DESCRIPTION

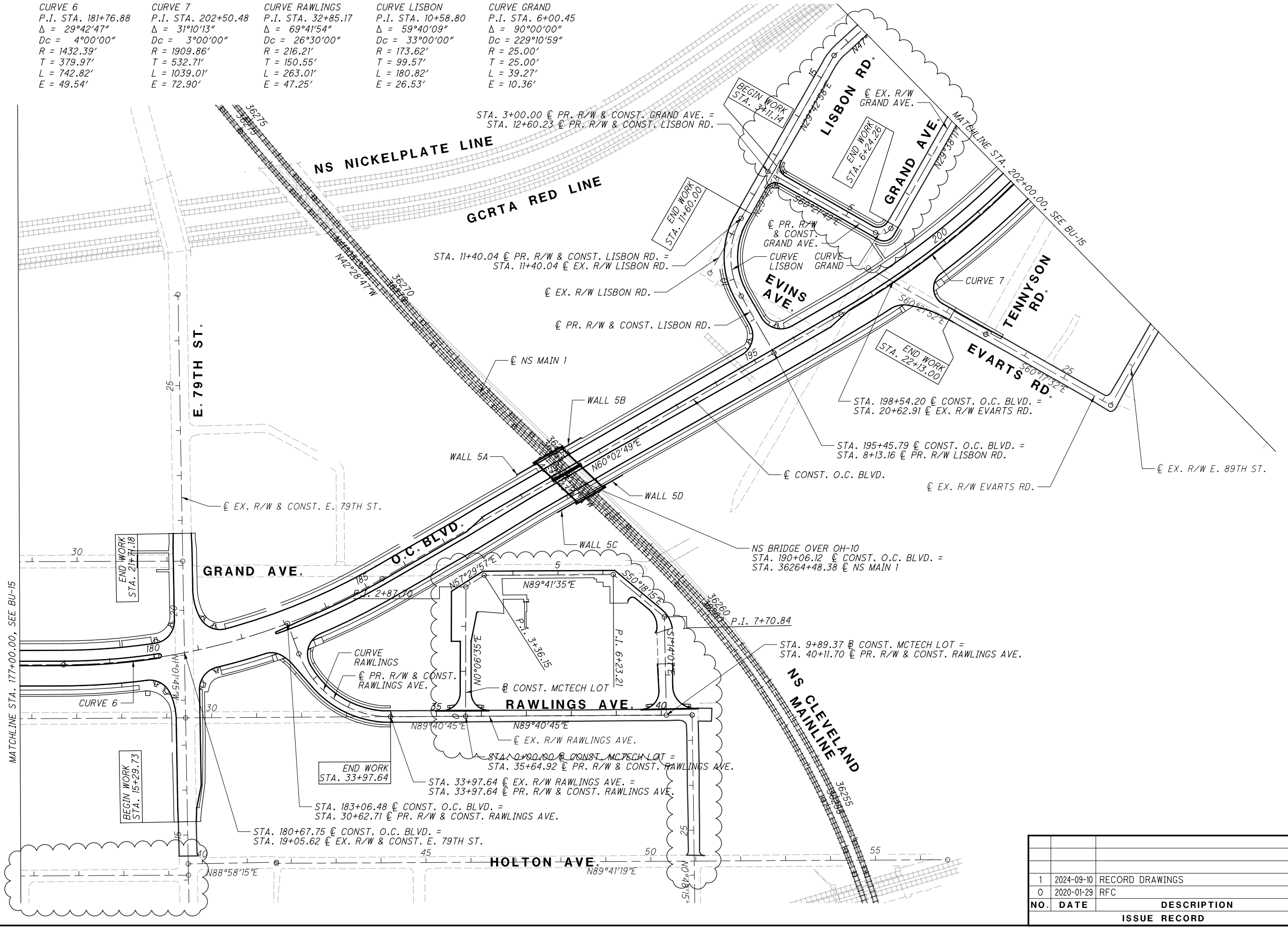
CURVE 6
P.I. STA. 181+76.88
 $\Delta = 29^{\circ}42'47''$
 $D_c = 4^{\circ}00'00''$
 $R = 1432.39'$
 $T = 379.97'$
 $L = 742.82'$
 $E = 49.54'$

CURVE 7
P.I. STA. 202+50.48
 $\Delta = 31^{\circ}10'13''$
 $D_c = 3^{\circ}00'00''$
 $R = 1909.86'$
 $T = 532.71'$
 $L = 1039.01'$
 $E = 72.90'$

CURVE RAWLINGS
P.I. STA. 32+85.17
 $\Delta = 69^{\circ}41'54''$
 $D_c = 26^{\circ}30'00''$
 $R = 216.21'$
 $T = 150.55'$
 $L = 263.01'$
 $E = 47.25'$

CURVE LISBON
P.I. STA. 10+58.80
 $\Delta = 59^{\circ}40'09''$
 $D_c = 33^{\circ}00'00''$
 $R = 173.62'$
 $T = 99.57'$
 $L = 180.82'$
 $E = 26.53'$

CURVE GRAND
P.I. STA. 6+00.45
 $\Delta = 90^{\circ}00'00''$
 $D_c = 229^{\circ}10'59''$
 $R = 25.00'$
 $T = 25.00'$
 $L = 39.27'$
 $E = 10.36'$



1	2024-09-10	RECORD DRAWINGS
0	2020-01-29	RFC
NO.	DATE	DESCRIPTION
ISSUE RECORD		



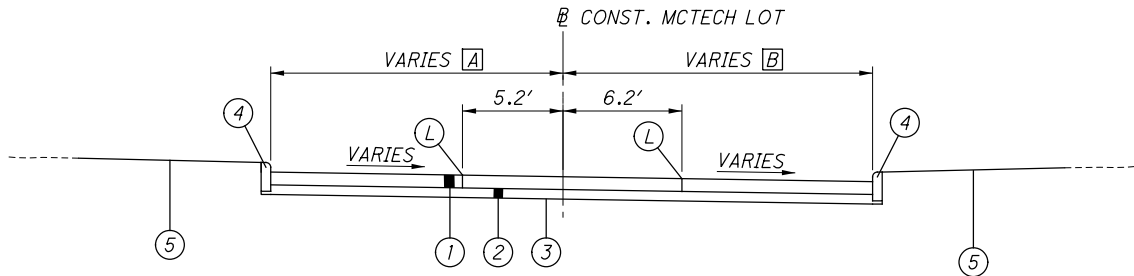
LEGEND

- ① ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QCI, AS PER PLAN
- ② ITEM 304 - 6" AGGREGATE BASE
- ③ ITEM 204 - SUBGRADE COMPACTION
- ④ ITEM 609 - CURB, TYPE 6, AS PER PLAN
- ⑤ ITEM 659 - SEEDING AND MULCHING, AS PER PLAN
- ⑥ ITEM 252 - FULL DEPTH PAVEMENT SAWING
- L LONGITUDINAL JOINT PER ODOT SCD BP-2.1
- Y BUTT JOINT BETWEEN EXISTING AND PROPOSED PAVEMENT, DOWELED TYPE Y JOINT AS PER ODOT SCD BP-2.5 SHALL BE PROVIDED

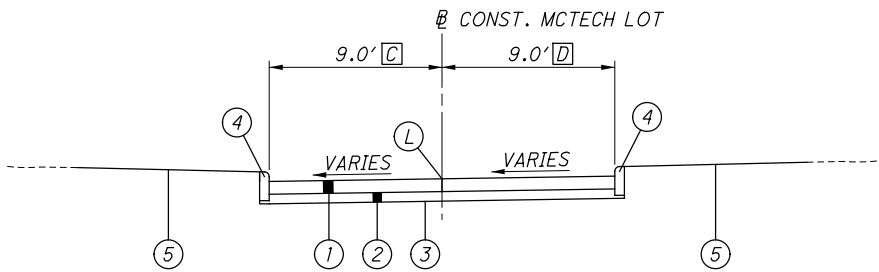
NOTES

WHERE THE TYPICAL SECTIONS INDICATE "VARIES", SEE PARKING LOT DETAIL SHEET 8 AND GRADING PLAN SHEET 12
SEE PARKING LOT DETAIL, GRADING PLAN, AND JOINTING PLAN FOR PAVEMENT INFORMATION FROM STA. 2+77.91 TO STA. 3+36.15 AND FROM STA. 6+23.21 TO STA. 6+94.65

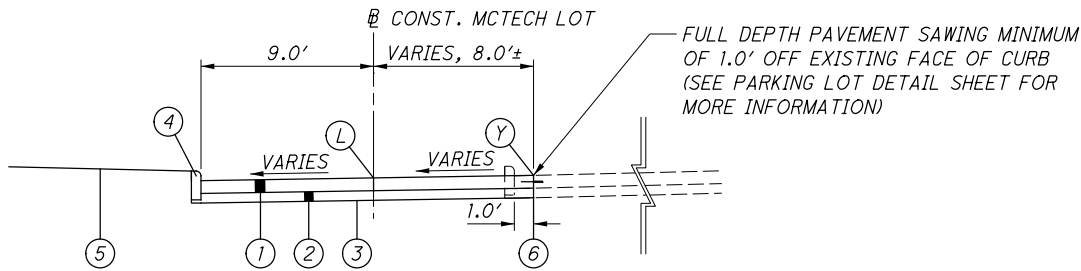
- A WIDTH VARIES FROM 16.6' AT STA. 8+75.00 TO 15.3' AT STA. 9+25.87
- B WIDTH VARIES FROM 17.5' AT STA. 8+75.00 TO 15.5' AT STA. 9+34.00
- C WIDTH VARIES FROM 9.0' AT STA. 7+56.49 TO 17.0' AT STA. 7+95.63
- D WIDTH VARIES FROM 9.0' AT STA. 7+33.81 TO 20.8' AT STA. 8+05.49
- E 32.0' FROM STA. 1+66.83 TO STA. 2+32.49
- F WIDTH VARIES FROM 12.0' AT STA. 1+66.83 TO 27.2' AT STA. 2+32.49



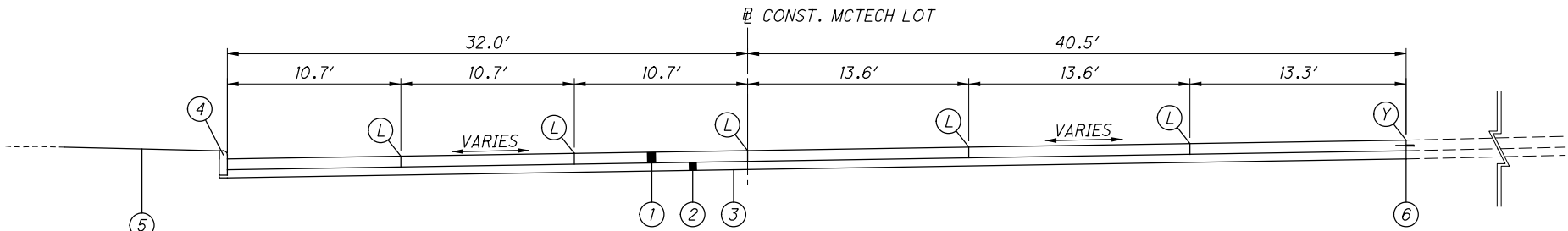
MCTECH CORP. EAST DRIVEWAY
STA. 8+75.00 TO STA. 9+75.45



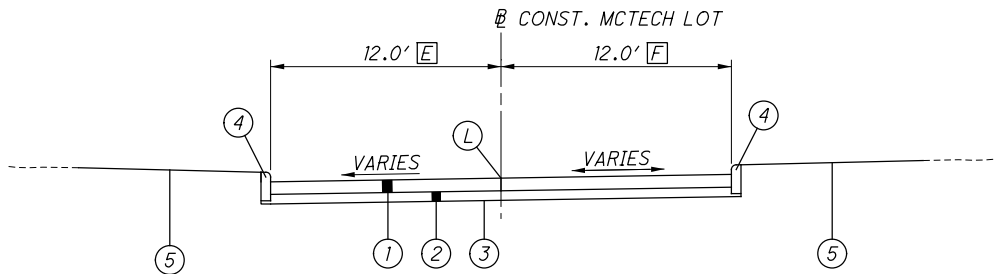
MCTECH CORP. EAST DRIVEWAY
STA. 6+94.65 TO STA. 8+00.82



MCTECH CORP. PARKING LOT
STA. 3+36.15 TO STA. 6+23.21



MCTECH CORP. WEST DRIVEWAY
STA. 2+32.49 TO STA. 2+77.91



MCTECH CORP. WEST DRIVEWAY
STA. 0+12.96 TO STA. 2+32.49

NO.	DATE	DESCRIPTION
0	2020-01-29	RFC
ISSUE RECORD		

UTILITIES

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

ELECTRIC
CLEVELAND PUBLIC POWER (CPP)
ATTN: CHRIS HIRZEL
1300 LAKESIDE AVENUE
CLEVELAND, OH 44114
216-664-3922 (CHRIS)
CHIRZEL@CPP.ORG

CLEVELAND ELECTRIC ILLUMINATING
COMPANY (CEI)
ATTN: DEAN CHATFIELD
6896 MILLER ROAD
BRECKSVILLE, OH 44141
440-546-8740
DMCHATFIELD@FIRSTENERGYCORP.COM

NATURAL GAS
DOMINION EAST OHIO GAS
COMPANY (DEOG)
ATTN: AARON CONANT
320 SPRINGSIDE DRIVE, SUITE 320
AKRON, OH 44333
330-664-2451
k.aaron.conant@dominionenergy.com

WATER
CITY OF CLEVELAND,
DIVISION OF WATER (CWDP)
ATTN: FRED ROBERTS
1201 LAKESIDE AVENUE
CLEVELAND, OH 44114
216-664-2444 x5590
FRED_ROBERTS@CLEVELANDWATER.COM

CATV
CHARTER COMMUNICATION
ATTN: PAT SANTOITEMMO
8179 EAST DOW CIRCLE
STRONGSVILLE, OH 44136
216-575-8016 CELL 216-854-0717
Pat.Santoiemmo@charter.com

SEWER
NORTHEAST OHIO REGIONAL
SEWER DISTRICT (NEORS)
ATTN: ROBERT STOERKEL
4747 EAST 49TH STREET
CUYAHOGA HEIGHTS, OHIO 44125
216-881-6600
stoerkelr@neorsd.org

CITY OF CLEVELAND,
DIVISION OF WATER
POLLUTION CONTROL (CDWPC)
ATTN: ELIE RAMY, ALAN SCHIELY
12302 KIRBY AVE.
CLEVELAND, OH 44108
216-644-3783/ 216-664-2756
ERAMY@CLEVELANDWPC.COM
ASCHIELY@CLEVELANDWPC.COM

UTILITIES (CONTINUED)

SIGNALS
CITY OF CLEVELAND,
DIVISION OF TRAFFIC ENGINEERING
ATTN: RICH TUTIE
4150 EAST 49TH STREET
CLEVELAND, OHIO 44106
216-420-8270
Rtutie@city.cleveland.oh.us

ODOT DISTRICT-12
(PUBLIC UTILITY)
ATTN: TONY TOTH
5500 TRANSPORTATION BLVD.
GARFIELD HEIGHTS, OH 44125
216-584-2220
Anthony.Toth@dot.ohio.gov

LIGHTING
CLEVELAND PUBLIC POWER (CPP)
ATTN: BRIAN SHEPARD
1300 LAKESIDE AVENUE
CLEVELAND, OH 44114
216-664-3922 EXT. 173
bshepherd@cpp.org

TELEPHONE
XO COMMUNICATIONS
ATTN: DALE FERGUSON
3 SUMMIT DRIVE, SUITE 750
INDEPENDENCE, OH 44131
216-619-3492
DALE.FERGUSON@XO.COM

AT&T
ATTN: ERIC JOHNSTON
13630 LORAIN AVE
CLEVELAND, OH 44111
216-476-6141
EJ1265@ATT.COM

AT&T CORP.
ATTN: GREG BELEW
5980-G WILCOX PLACE
DUBLIN, OHIO 43016
614-760-8320
gbelew@hlengineering.com

VERIZON
ATTN: AL GUEST
120 RAVINE STREET
AKRON, OH 44303
O. 330-253-8267/ M. 330-329-5495
ALLAN.GUEST@VERIZON.COM

CENTURYLINK (LEVEL 3)
ATTN: TOM TROMBLEY OR
DOUG HOLLOWAY
4000 CHESTER AVE
CLEVELAND, OH 44103
734-777-1910
216-906-6284
TOM.TROMBLEY@CENTURYLINK.COM
DOUG.HOLLOWAY@CENTURYLINK.COM

ZAYO
ATTN: JOHN BRUCE
CORTLAND, OHIO 44410
JOHN.BRUCE@ZAYO.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

ROADWAY
PAVEMENT
UTILITIES

SEE BUILDABLE UNIT BU15 FOR ROADWAY, PAVEMENT, AND UTILITIES GENERAL NOTES.

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

WHEN THIS ITEM IS CALLED FOR ON THE PLANS, ALL APPLICABLE PROVISIONS OF ITEM 255, AS SET FORTH IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, SHALL APPLY EXCEPT AS MODIFIED HEREIN.

ALL WORK, INCLUDING DOWELING INTO ADJACENT PAVEMENT, SHALL BE PER CITY OF CLEVELAND SCD PR-1.

255.04 CORRECTION OF DISTURBED SUBBASE AND SUBGRADE

SUITABLE SUBBASE DISTURBED IN AREAS WHERE CONCRETE PAVEMENT IS REMOVED SHALL BE SHAPED AND RECOMPACTED TO THE SATISFACTION OF THE ENGINEER. UNSUITABLE SUBBASE SHALL BE REMOVED AND REPLACED WITH ITEM 304 - AGGREGATE BASE TO THE DEPTH OF ADJACENT SUBBASE.

WHERE UNSUITABLE SUBGRADE MATERIAL IS ENCOUNTERED, IT SHALL BE REMOVED TO THE DEPTH DETERMINED BY THE ENGINEER, AND REPLACED IN EIGHT (8) INCH MAXIMUM (LOOSE DEPTH) MECHANICALLY COMPACTED LAYERS. SUITABLE EMBANKMENT MATERIAL (204.02) REQUIRED TO REPLACE THE UNDERCUT SUBGRADE SHALL, TO THE EXTENT POSSIBLE, EXHIBIT THE SAME PHYSICAL PROPERTIES AS THE ADJACENT SOUND SUBGRADE MATERIALS. ALL EXPOSED OR RECONSTRUCTED SUBGRADE SOILS SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER.

REMOVAL, DISPOSAL, AND REPLACEMENT (WITH ITEM 304) OF UNSUITABLE SUBBASE AND SUBGRADE MATERIAL IN AREAS IDENTIFIED FOR ITEM 255 SHALL BE CONSIDERED INCIDENTAL TO ITEM 255. NO SEPARATE PAYMENT WILL BE MADE.

ITEM 305, 451, 452, 608 AND 609 - CONSTRUCTION OF CONCRETE BASE PAVEMENT, DRIVEWAYS, SIDEWALKS AND CURB, AS PER PLAN

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

ITEM 607 - FENCE, TYPE CL, AS PER PLAN
ITEM 607 - GATE, TYPE CL, AS PER PLAN

INSTALL FENCE AND GATE IN ACCORDANCE WITH CMS 607 AND ODOT STANDARD CONSTRUCTION DRAWING F-1.1 WTH THE FOLLWING EXCEPTIONS: FENCE AND GATE HEIGHT SHALL BE 10 FEET. FENCE AND GATE SHALL INCLUDE TOP RAIL AND BARBED WIRE.

ITEM 608 - CURB RAMPS, AS PER PLAN

ALL CURB RAMPS PROVIDED BY THE CONTRACTOR SHALL MEET ALL ADA REQUIREMENTS AND THE FOLLOWING: TRUNCATED DOME TILES TINTED RED AS MANUFACTURED BY ENGINEERED PLASTICS, INC., TRUNCATED DOME TACTILE SYSTEMS AS MANUFACTURED BY ADA SOLUTIONS INC., OR APPROVED EQUAL SHALL BE INSTALLED AT ALL CURB RAMPS.

CURB RAMPS SHALL CONFORM TO THE CITY OF CLEVELAND CURB RAMPS STANDARD DRAWINGS.

THICKNESS OF THE CURB RAMP WALK AND CONCRETE BASE BENEATH THE TRUNCATED DOMES SHALL BE A MINIMUM OF 8 INCHES. IN ADDITION, (A 2 INCH COMPACTED SCREENINGS BED THAT MEETS THE REQUIREMENTS OF C&MS 703.10 (LIMITED TO CRUSHED STONE) SHALL BE FURNISHED AND PLACED BENEATH ALL CURB RAMP AREAS).

ITEM 608 - CONCRETE WALK, AS PER PLAN

ALL SIDEWALKS SHALL CONFORM TO THE FOLLOWING: PER 608.03(C), IT IS REQUIRED THAT 1/2 INCH THICK EXPANSION JOINT MATERIAL (C&MS 703.05) IS INSTALLED BETWEEN THE WALK AND THE BACK OF CURB AND INCH THICK FOR ANY OTHER FIXED OBJECT. IN ADDITION TO THE LOCATIONS SPECIFIED UNDER C&MS 608.03(C), TRANSVERSE EXPANSION JOINTS SHALL BE CONSTRUCTED AT INTERVALS OF NOT MORE THAN 25 TO 30 FEET UNLESS OTHERWISE DIRECTED. THE EXPANSION JOINT FILLER C&MS 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 C&MS 705.04 JOINT SEALER.

FINAL SURFACE FINISH OF WALKS SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL STANDARDS/ORDINANCES. IN ADDITION, A 2 INCH COMPACTED SCREENINGS BED THAT MEETS THE REQUIREMENTS OF C&MS 703.10 (LIMITED TO CRUSHED STONE) SHALL BE FURNISHED AND PLACED BENEATH ALL SIDEWALK AREAS.

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS THAT ARE NOT PAVED OR OTHERWISE COVERED IN NON-ERODIBLE SURFACE, IN ACCORDANCE WITH C&MS ITEM 659, AND AS SPECIFIED BELOW, EXCEPT FOR AREAS IDENTIFIED FOR SPECIFIC AESTHETIC TREATMENTS BELOW. FOR SLOPES 3:1 OR STEEPER (H:V), THE CONTRACTOR SHALL PROVIDE SLOPE EROSION PROTECTION IN ACCORDANCE WITH C&MS 670.

THE CONTRACTOR SHALL PLACE A MINIMUM OF 4 INCHES OF TOPSOIL PRIOR TO SEEDING OPERATIONS. CLASS I SEED SHALL BE USED EXCEPT IN LOCATIONS WHERE SIDE SLOPES ARE 3:1 OR STEEPER, WHERE CLASS 3B SHALL BE USED. SOIL ANALYSIS TESTING, WATER, LIME, COMMERCIAL FERTILIZER, REPAIR SEEDING AND MULCHING, INTER-SEEDING, AND MOWING SHALL BE PROVIDED TO PROMOTE THE GROWTH AND CARE OF PERMANENT SEEDED AREAS.

DRAINAGE
SANITARY

SEE BUILDABLE UNITS BU05, BU09, BUI3, BU21, AND BU24 FOR DRAINAGE AND SANITARY GENERAL NOTES.

0	2020-01-29	RFC
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SITE SPECIFIC REQUIREMENTS

PARCEL 2274, PERK COMPANY INC., GRAND AVENUE
TOTAL SITE CLEARING INCLUDES BUILDING SLAB, FOUNDATION AND FENCE REMOVAL. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY FENCE ADJACENT TO PAVING AND CONSTRUCTION OPERATIONS TO MAINTAIN SECURITY AT ALL TIMES FOR ACCESS TO PARCELS 2281 AND 2277 UNTIL SUCH TIME THAT SECURE ACCESS TO PARCEL 2277 IS REESTABLISHED AT RAWLINGS AVENUE. INSTALL TEMPORARY FENCE IN ACCORDANCE WITH CMS 607 AND ODOT STANDARD CONSTRUCTION DRAWING F-1.1 WTH THE FOLLWING EXCEPTIONS: FENCE HEIGHT SHALL BE 10 FEET. FENCE SHALL INCLUDE TOP RAIL AND BARBED WIRE.

PARCEL 2277, MCTECH HOLDINGS, GRAND AVENUE
TOTAL SITE CLEARING APPLIES WITHIN THE PERMANENT EASEMENT. PARTIAL SITE CLEARING APPLIES WITHIN THE TEMPORARY EASEMENT. SITE CLEARING INCLUDES PAVEMENT AND DRAINAGE REMOVAL ALONG PORTIONS OF GRAND AVENUE. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY FENCE ADJACENT TO GRADING AND CONSTRUCTION OPERATIONS TO MAINTAIN SITE SECURITY AT ALL TIMES. INSTALL TEMPORARY FENCE IN ACCORDANCE WITH CMS 607 AND ODOT STANDARD CONSTRUCTION DRAWING F-1.1 WTH THE FOLLWING EXCEPTIONS: FENCE HEIGHT SHALL BE 10 FEET. FENCE SHALL INCLUDE TOP RAIL AND BARBED WIRE.

SITE IMPROVEMENTS INCLUDE TWO RIGID COMMERCIAL PAVEMENT DRIVEWAY ACCESS POINTS ON THE SOUTH SIDE OF THE PROPERTY TO RAWLINGS AVENUE ON THE EAST AND WEST SIDES OF THE BUILDING. GATES SHALL BE PROVIDED IN THE EXISTING FENCE AT THE NEW DRIVEWAYS TO RAWLINGS AVENUE TO MAINTAIN SECURE PERIMETER FENCING.

RECONFIGURE PARKING LOT ON NORTH SIDE OF BUILDING TO ACCOMMODATE TWO-WAY TRAFFIC USING RIGID COMMERCIAL DRIVEWAY PAVEMENT. RESTORE DRVIEWAY CONNECTION AT NORTHEAST CORNER OF BUILDING BETWEEN PARKING LOT AND LOADING DOCK ON EAST SIDE OF BUILDING.

PARKING STALL RESTRICTIONS SHALL BE LIMITED TO A MAXIMUM OF 30 DAYS DURING WHICH TIME A MINIMUM OF 30 PARKING STALLS SHALL BE MAINTAINED. ACCESS TO LOADING DOCKS SHALL BE MAINTAINED AT ALL TIMES.

CATCH BASINS TO REMAIN SHALL BE ADJUSTED TO MATCH PROPOSED PARKING LOT GRADE. SITE GRADING SHALL MAINTAIN EXISTING DRAINAGE PATTERN. EXISTING STORM AND SANITARY SEWERS SHALL BE RECONNECTED.

DO NOT DISTURB FLAGPOLE, PARKING SIGNS, OR TREES AND LANDSCAPING ON THE NORTH SIDE OF THE BUILDING.

ITEM SPECIAL - MAINTENANCE OF WATER SERVICE

(A) THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN AND REMOVE ALL TEMPORARY WATER MAINS AND TEMPORARY SERVICE CONNECTIONS, INCLUDING NECESSARY VALVES AND TEMPORARY HYDRANTS FOR FIRE PROTECTION ON THE TEMPORARY WATER MAINS, TO ALL AFFECTED PREMISES WHERE THE RELOCATIONS OF THE EXISTING WATER MAIN AND CONSTRUCTION OF NEW SERVICE CONNECTIONS WILL RESULT IN THE INTERRUPTION OF SERVICE FOR PERIODS LONGER THAN FOUR (4) HOURS BETWEEN 6:00 A.M. AND MIDNIGHT. BETWEEN MIDNIGHT AND 6:00 A.M. SERVICES MAY BE INTERRUPTED FOR THE ENTIRE SIX (6) HOUR PERIOD. THE PROVIDING OF TEMPORARY WATER MAINS SHALL ALSO INCLUDE FLUSHING, TESTING, SAMPLING AND, IF REQUIRED, CHLORINATION; ALL AS SPECIFIED ELSEWHERE IN THESE SPECIFICATIONS.

THE FAILURE OF THE CONTRACTOR TO INSTALL TEMPORARY MAINS OF SUFFICIENT SIZE MAY MAKE THE CONTRACTOR LIABLE WHERE CONFLAGRATION DUE TO LACK OF WATER FOR FIRE PROTECTION MAY GIVE RISE TO ACTIONABLE CLAIMS FOR DAMAGES CHARGEABLE TO THE CONTRACTOR BY REASON OF SAID FAILURE.

(B) THE CONTRACTOR SHALL SUBMIT A PLAN FOR MAINTAINING WATER SERVICE IN CONFORMANCE WITH THE REQUIREMENTS HEREIN STIPULATED 2 WEEKS PRIOR TO INSTALLATION. THE PLAN SHALL ALSO SPECIFY ALL CONSTRUCTION METHODS, MATERIALS UTILIZED, VALVE LOCATIONS AND MEET THE APPROVAL OF THE ENGINEER, LOCAL FIRE DEPARTMENT AND THE CLEVELAND WATER DEPARTMENT BEFORE THE CONTRACTOR BEGINS ANY OF THE WATERWORK. APPROVAL OF SUCH A PLAN FOR TEMPORARY WATER MAINS SHALL NOT RELIEVE THE CONTRACTOR RESPONSIBILITY FOR PROVIDING SUFFICIENT SUPPLY. THE CONTRACTOR SHALL AT HIS OWN EXPENSE INCREASE THE SIZES OF THE TEMPORARY WATER MAINS BEYOND THE SIZES INDICATED HEREIN IF THE SIZES AS NOTED IN THESE SPECIFICATIONS ARE FOUND TO BE INSUFFICIENT.

(C) TEMPORARY WATER MAINS SHALL BE PLACED ON ONE OR BOTH SIDES OF THE STREET. CONNECTIONS ARE PERMISSIBLE ONLY ON THE SIDE OF THE STREET ON WHICH THE PARTICULAR TEMPORARY MAIN IS LOCATED. THE TEMPORARY MAINS SHALL NOT OBSTRUCT ANY STREETS, SIDEWALKS OR DRIVEWAYS. TRENCHING OR RAMPING SHALL BE PERFORMED AS REQUIRED TO PROVIDE PROTECTION FOR THE TEMPORARY WATER MAINS AND TO PROVIDE FOR THE SAFE MOVEMENT OF VEHICULAR AND PEDESTRIAN TRAFFIC. TEMPORARY WATER MAINS THAT CROSS DRIVEWAYS AND SIDEWALKS SHALL BE RAMPED WITH RUBBERIZED/NEOPRENE TYPE RAMPING; NO ASPHALT OR STONE RAMPING SHALL BE ALLOWED FOR THIS PURPOSE. ALL LINES CROSSING STREETS SHALL BE TRENCHED ACROSS TO ALLOW BYPASS PIPE TO LIE FLUSH WITH THE PAVEMENT SURFACE. NO RAMPING WILL BE ALLOWED ON STREET CROSSINGS EXCEPT FOR SIDE STREETS APPROVED BY THE CITY. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTARY CONNECTIONS WHERE VALVES WITH NIPPLES HAVE BEEN REMOVED, WHERE ADJACENT WATER MAINS CONNECT, OR WHERE ORDERED BY THE CITY.

(D) SIZES FOR TEMPORARY WATER MAINS SHALL BE AS FOLLOWS:

1. WHERE IT IS NOT POSSIBLE TO HAVE BOTH RELOCATED/NEW AND EXISTING WATER MAINS SIMULTANEOUSLY IN SERVICE IN ORDER TO TRANSFER AND RECONNECT EXISTING SERVICE CONNECTIONS TO THE RELOCATED/NEW WATER MAIN, OR WHEN THE TIME REQUIRED TO PUT THE RELOCATED/NEW WATER MAIN, EXCLUDING SERVICE CONNECTIONS, INTO SERVICE EXCEEDS THE RATIONS SPECIFIED IN PARAGRAPH "A", THE SIZES FOR TEMPORARY WATER MAINS SHALL BE AS FOLLOWS:

A. WHEN WITHIN THE LIMITS OF THE WATER MAIN RELOCATION NO SERVICE CONNECTIONS EXIST, OR SERVICE CONNECTIONS EXIST ON ONLY ONE SIDE OF THE STREET, THE TEMPORARY WATER MAIN SHALL NOT BE LESS THAN TWO (2) NOMINAL PIPE DIAMETERS SMALLER THAN EXISTING PIPE BUT IN NO CASE LESS THAN FOUR (4) INCHES IN DIAMETER AND SUCH TEMPORARY WATER MAIN SHALL BE PLACED ON ONLY ONE SIDE OF THE STREET. FOR EXAMPLE, IF EXISTING WATER MAIN IS TWELVE (12) INCH NOMINAL DIAMETER, TEMPORARY WATER MAIN SHALL NOT BE LESS THAN EIGHT (8) INCH NOMINAL DIAMETER.

B. WHEN THE LIMITS OF THE WATER MAIN RELOCATION SERVICE CONNECTIONS EXIST ON BOTH SIDES OF THE STREET, THE TEMPORARY WATER MAINS SHALL NOT BE LESS THAN ONE (1) NOMINAL PIPE DIAMETER SMALLER THAN THE EXISTING PIPE BUT IN NO CASE LESS THAN SIX (6) INCHES IN DIAMETER AND SUCH TEMPORARY WATER MAINS SHALL BE PLACED ON BOTH SIDES OF THE STREET.

C. FOR EXAMPLE, IF EXISTING WATER MAIN IS TWELVE (12) INCH NOMINAL DIAMETER, TEMPORARY WATER MAINS SHALL NOT BE LESS THAN TEN (10) INCH NOMINAL DIAMETER, ON EACH SIDE.

2. WHEN TEMPORARY WATERLINES AS DESCRIBED IN PARAGRAPH D-1 ARE NOT REQUIRED, BUT THE INTERRUPTION IN WATER SERVICE EXCEEDS THE DURATIONS SPECIFIED IN PARAGRAPH "A" BECAUSE OF THE TIME REQUIRED TO CONNECT NEW/RELOCATED WATER MAINS TO EXISTING MAINS AND/OR TO RE-CONNECT EXISTING SERVICE CONNECTIONS TO THE NEW/RELOCATED MAIN, THE SIZES FOR TEMPORARY WATER MAINS, ON ONE OR BOTH SIDES OF THE STREET, AS REQUIRED, SHALL NOT BE LESS THAN THAT INDICATED BELOW PROVIDED THAT THESE SIZES ARE APPROVED BY THE FIRE DEPARTMENT OF THE MUNICIPALITY IN WHICH THE WORK IS BEING PERFORMED.

3.THE SIZE OF THE TEMPORARY CONNECTION SHALL BE OF AT LEAST THE SAME SIZE AS THE PERMANENT CONNECTION THAT HAS GONE TO THE BUILDING UNLESS THE CONNECTION IS LARGER THAN THE BYPASS PIPING. IF THE PERMANENT CONNECTION IS LARGER THAN THE BYPASS PIPING, THEN THE TEMPORARY CONNECTION WILL BE OF THE SAME SIZE AS THE BYPASS PIPING.

THE CONTRACTOR SHALL PROVIDE ENOUGH ISOLATION VALVES IN THE TEMPORARY WATER MAIN SYSTEM SUCH THAT PIPE SEGMENTS ON EACH SIDE OF THE STREET OF EACH STREET BLOCK CAN BE ISOLATED. IN NO CASE SHALL SEGMENTS OF PIPE BETWEEN VALVES BE LONGER THAN 1000 FEET.

MINIMUM FLOWS THAT SHALL BE AVAILABLE FROM TEMPORARY BYPASS WATER LINES, 4-INCHES IN DIAMETER OR LARGER, SHALL BE:

1. ON RESIDENTIAL DEAD END AND SIDE STREETS WHICH MUST BE OR ARE SUPPLIED FROM THE EXISTING WATER LINE BEING CLEANED AND LINED, A MINIMUM OF 600 GALLONS PER MINUTE (GPM) AT A 20 POUND PER SQUARE INCH (PSI) RESIDUAL PRESSURE AT ANY POINT ALONG SAID TEMPORARY BYPASS WATER LINE.

2. ON RESIDENTIAL MAIN OR THROUGH STREETS CONNECTING TWO (2) OR MORE DEAD END OR SIDE STREETS WHICH MUST BE OR ARE SUPPLIED FROM THE EXISTING WATER LINE BEING CLEANED AND LINED, A MINIMUM OF 1,000 GPM AT A 20 PSI RESIDUAL PRESSURE AT ANY POINT ALONG SAID TEMPORARY BYPASS WATERLINE.

3. ON A STREET IN COMMERCIAL, INDUSTRIAL OR MULTI-FAMILY COMPLEX AREAS, WHICH MUST BE OR ARE SUPPLIED FROM THE EXISTING WATER LINE BEING CLEANED AND LINED, A MINIMUM OF 1,300 GPM AT 20 PSI RESIDUAL PRESSURE AT ANY POINT ALONG SAID TEMPORARY BYPASS WATERLINE.

THE CONTRACTOR SHALL FURNISH NECESSARY HOSES, VALVES, PIPE AND FITTINGS FOR WATER SERVICE CONNECTIONS. THE CONTRACTOR SHALL ONLY CONNECT TO AN OUTSIDE HOSE BIB OR SILL COCK, UNLESS OTHERWISE APPROVED BY THE CITY. ALL CONNECTIONS TO OUTSIDE HOSE BIBS OR SILL COCKS SHALL BE SUPPLIED WITH Y CONNECTORS.

THE CONTRACTOR SHALL MAKE A REASONABLE EFFORT TO SHUT OFF CONNECTIONS AT THE SERVICE STOP BOX WHERE POSSIBLE. IF A SERVICE STOP BOX IS NOT AVAILABLE, THE CONTRACTOR SHALL SHUT OFF THE CONNECTIONS INSIDE THE RESIDENCE OR BUILDING, AND SHALL CLEAR SERVICE CONNECTIONS USING INTERNAL PLUMBING.

THE CONTRACTOR SHALL NOT BE PAID ANY EXTRA ALLOWANCE IF REQUIRED TO SHUT A CONNECTION WITHIN A BUILDING OR CLEAR SERVICE CONNECTIONS USING INTERNAL PLUMBING. ALL SUCH COSTS SHALL BE INCLUDED IN THE BID.

(E) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED REPAIRS TO, OR REPLACEMENT OF, DAMAGED TEMPORARY WATER MAINS AND APPURTENANCES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING AND REPAIRING ANY DAMAGED PAVEMENT, SIDEWALKS, CURBS, TREE LAWNS OR OTHER AREAS DISTURBED BY THE INSTALLATION; AND FOR MAINTENANCE OR REPAIR OF THE TEMPORARY WATER MAINS, TEMPORARY SERVICE CONNECTIONS AND APPURTENANCES THERETO. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE BID FOR "ITEM SPECIAL - MAINTENANCE OF WATER SERVICE".

(F) THE CONTRACTOR SHALL NOT PUT ANY TEMPORARY WATER MAINS INTO SERVICE WITHOUT AN APPROVED PLAN AS INDICATED IN PARAGRAPH B.

(G) THE TEMPORARY WATER MAIN AND ALL APPURTENANCES SHALL BE FURNISHED, MAINTAINED AND REMOVED BY THE CONTRACTOR. THE TEMPORARY WATER MAIN PIPE AND APPURTENANCES FURNISHED SHALL BE CLEAN AND IN SUCH CONDITION THAT THEY MAY BE TESTED, FLUSHED, CHLORINATED AND PRODUCE SATISFACTORY WATER SAMPLES AS REQUIRED BY THE CITY. ANY NECESSARY CHLORINATION SHALL BE DONE BY THE CITY AS STIPULATED ELSEWHERE IN THESE SPECIFICATIONS AND SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. ALL CONNECTIONS TO THE TEMPORARY WATER MAIN SHALL BE MADE BY THE CONTRACTOR UNDER THE SUPERVISION OF THE CITY.

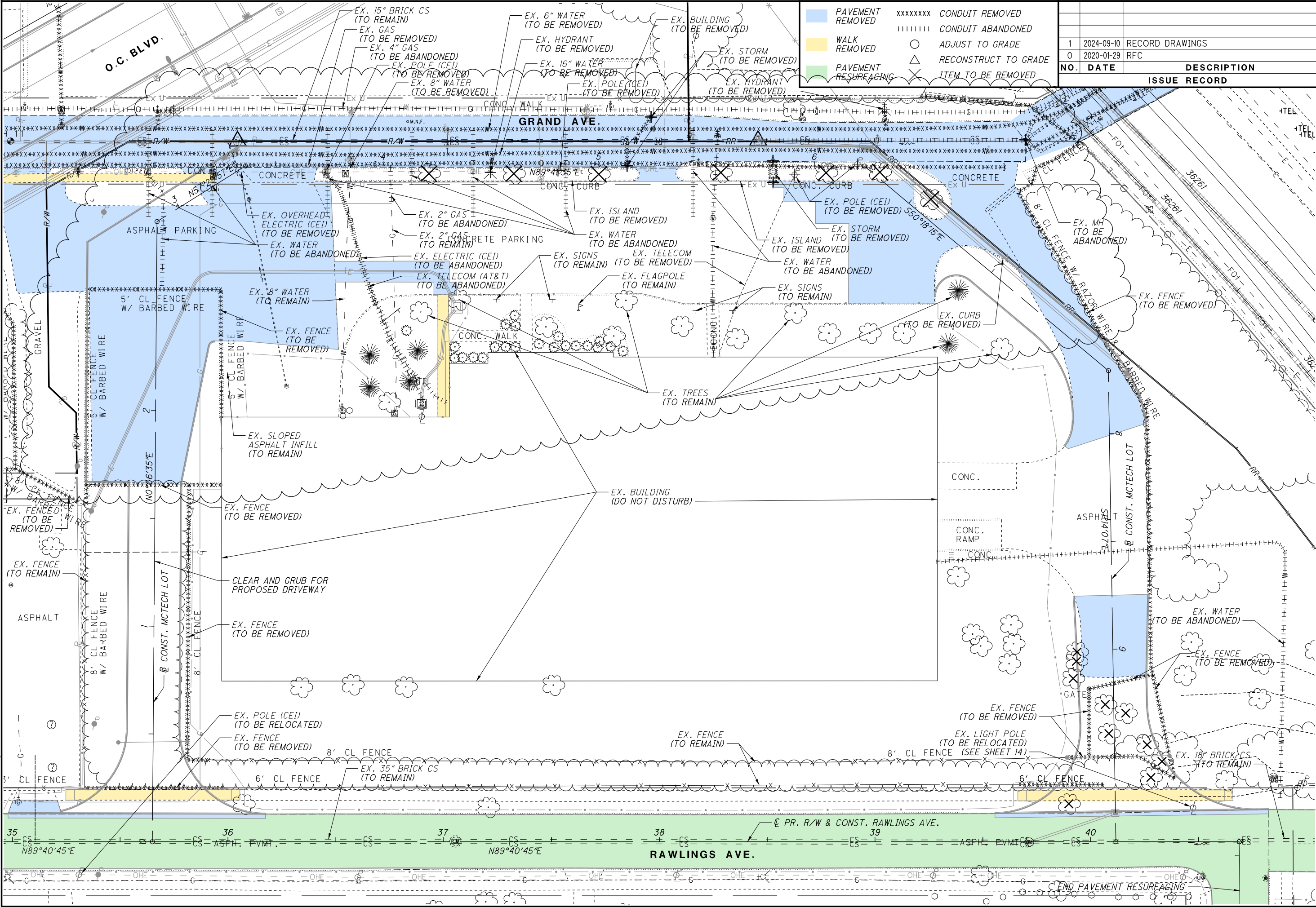
(H) THE CONTRACTOR SHALL PROVIDE TEMPORARY FOUR (4) INCH FIRE HYDRANTS ON THE TEMPORARY WATERLINE IN ACCORDANCE WITH THE "TEMPORARY WATER MAIN & HYDRANT CONNECTION ASSEMBLY" DETAIL, SEE CWD STANDARD DETAILS. THE CONTRACTOR SHALL PROVIDE A SUFFICIENT NUMBER OF VALVES ON THE TEMPORARY WATER MAIN AS TO ALLOW PROPER SEQUENCING OF THE NEW/RELOCATED WATER MAIN WORK WITHOUT UNDUE DELAY. WATER TO THE TEMPORARY WATER MAIN WILL BE PROVIDED FROM THE EXISTING PERMANENT HYDRANTS THROUGH THE TEMPORARY HYDRANTS JUST BEYOND THE LIMITS OF THE SHUTDOWN AND/OR FROM ADJACENT WATER MAINS.

PAYMENT

THE DIVISION OF WATER WILL REQUIRE THAT THE CONTRACTOR PAY ALL DIVISION OF LABOR CHARGES FOR "FLUSHING AND SAMPLING" OF TEMPORARY WATER MAINS. CHARGES OR FEES FOR CHLORINATION WORK OR ANY WORK PERFORMED BY THE CITY MAY BE OBTAINED FROM THE PERMITS AND SALES UNIT OF THE DIVISION OF WATER AND HEAT. PAYMENT FOR DIVISION OF WATER LABOR SHALL BE MADE TO THE PERMITS AND SALES SECTION PRIOR TO ANY WATER WORK BEING PERFORMED.

0	2020-01-29	RFC
NO.	DATE	DESCRIPTION
ISSUE RECORD		

BU-15B - ROADWAY & PAVEMENT, MCTECH PARKING LOT
...Sheets\BU-15B\96833.dgn 11/12/2024 4:20:31 PM Rohit.Bk



CUY-IR490/ SR010-
2.09/ 19.28

DEMOLITION PLAN
MCTECH CORP. PARKING LOT

RECORD PLANS

7
16

RECORD PLANS

NO.	DATE	DESCRIPTION
1	2024-09-10	RECORD DRAWINGS
0	2020-01-29	RFC

CALCULATED
RB

CHECKED
RC

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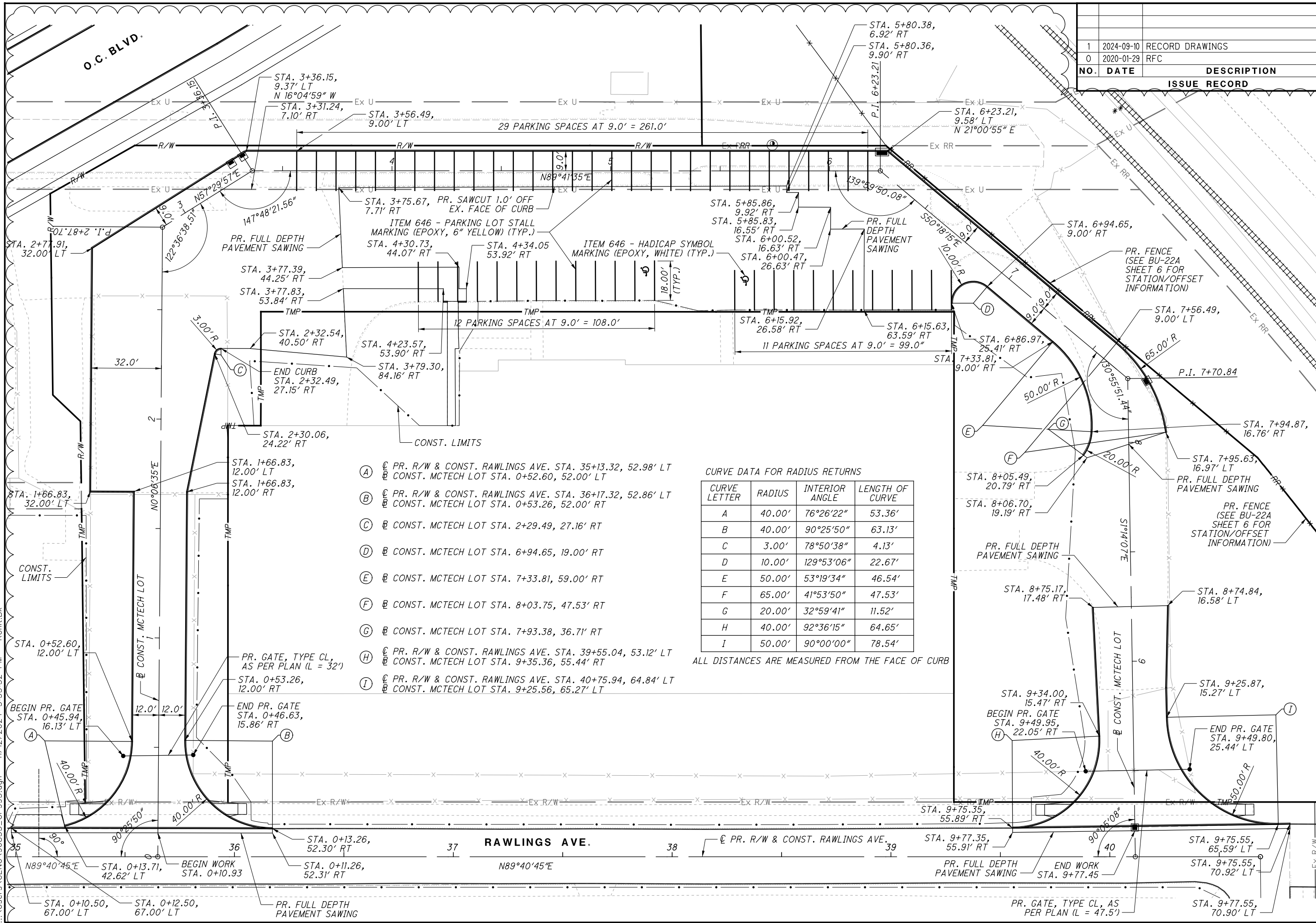
20

40

HORIZONTAL
SCALE IN FEET

↑

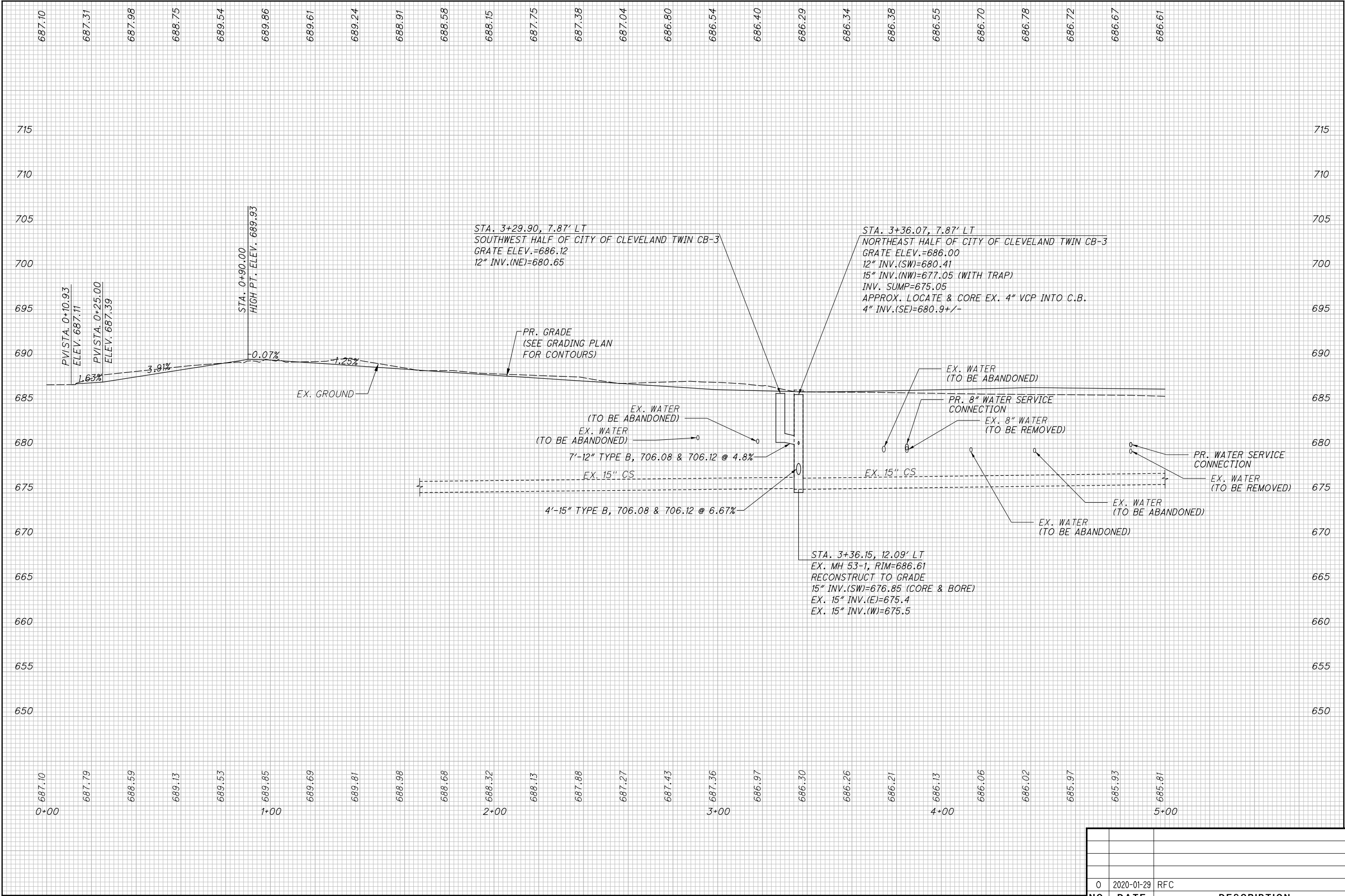
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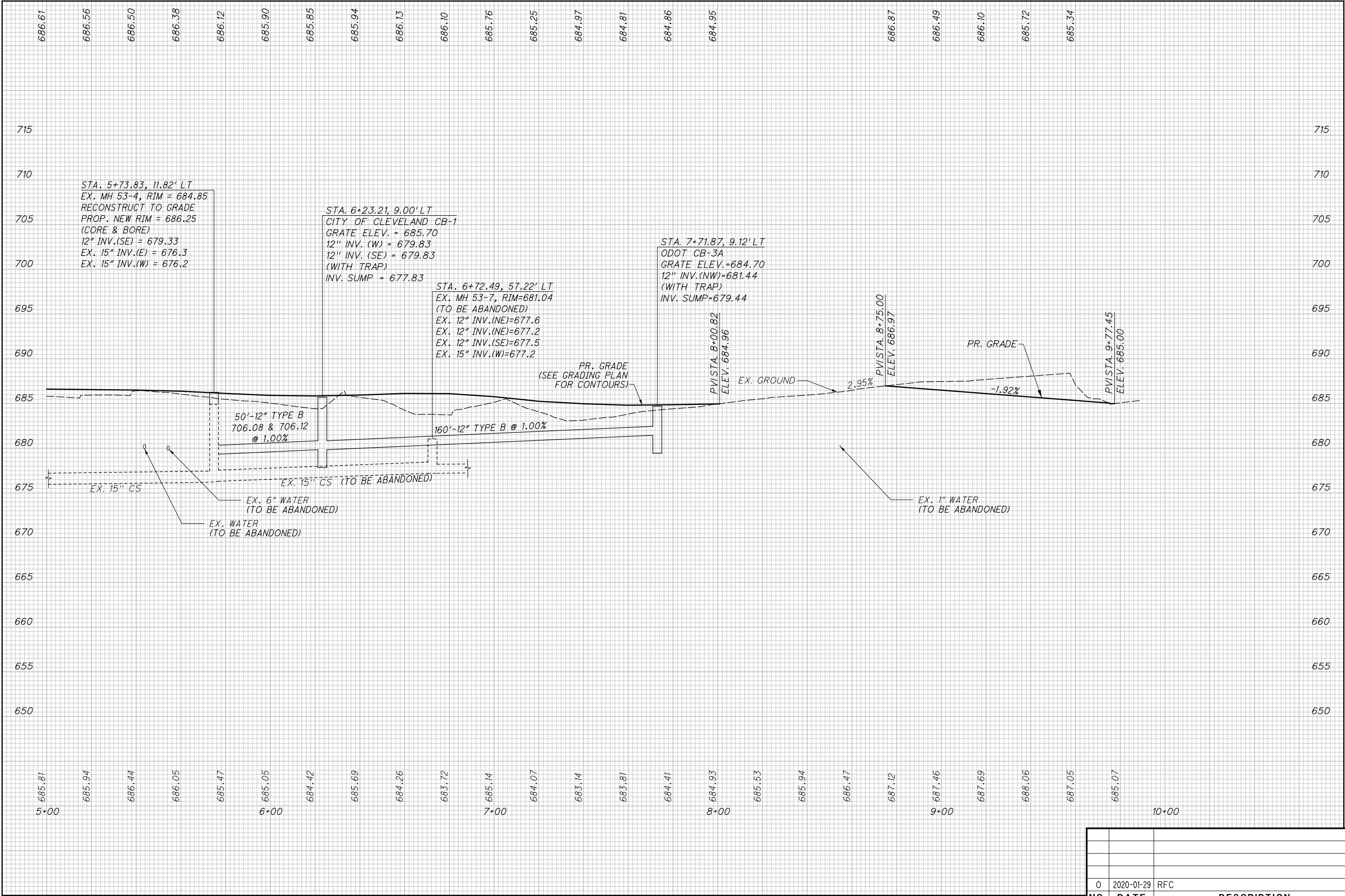
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NO.	DATE	DESCRIPTION
ISSUE RECORD		



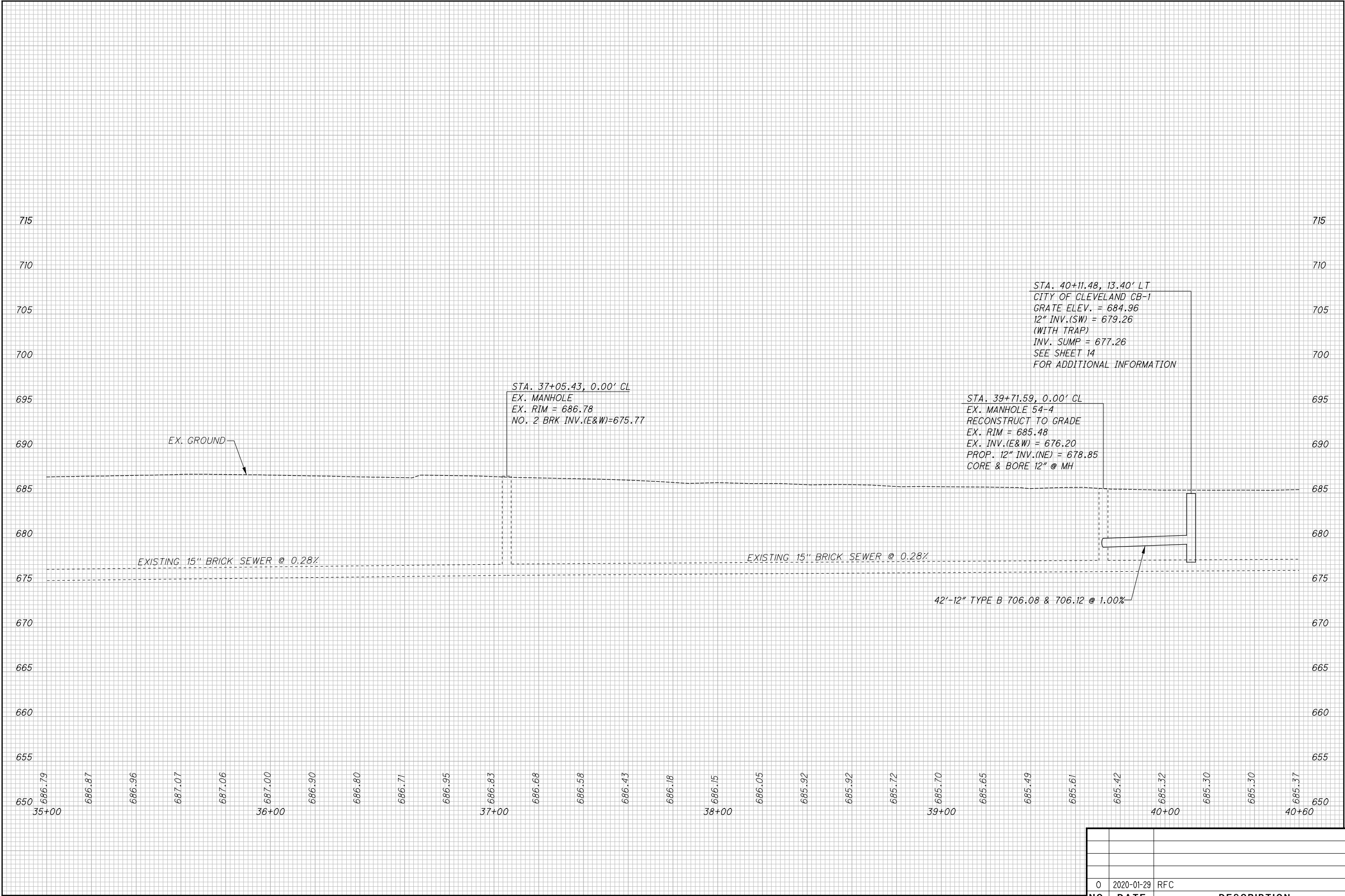
PARKING LOT DETAIL
MCTECH CORP. PARKING LOT



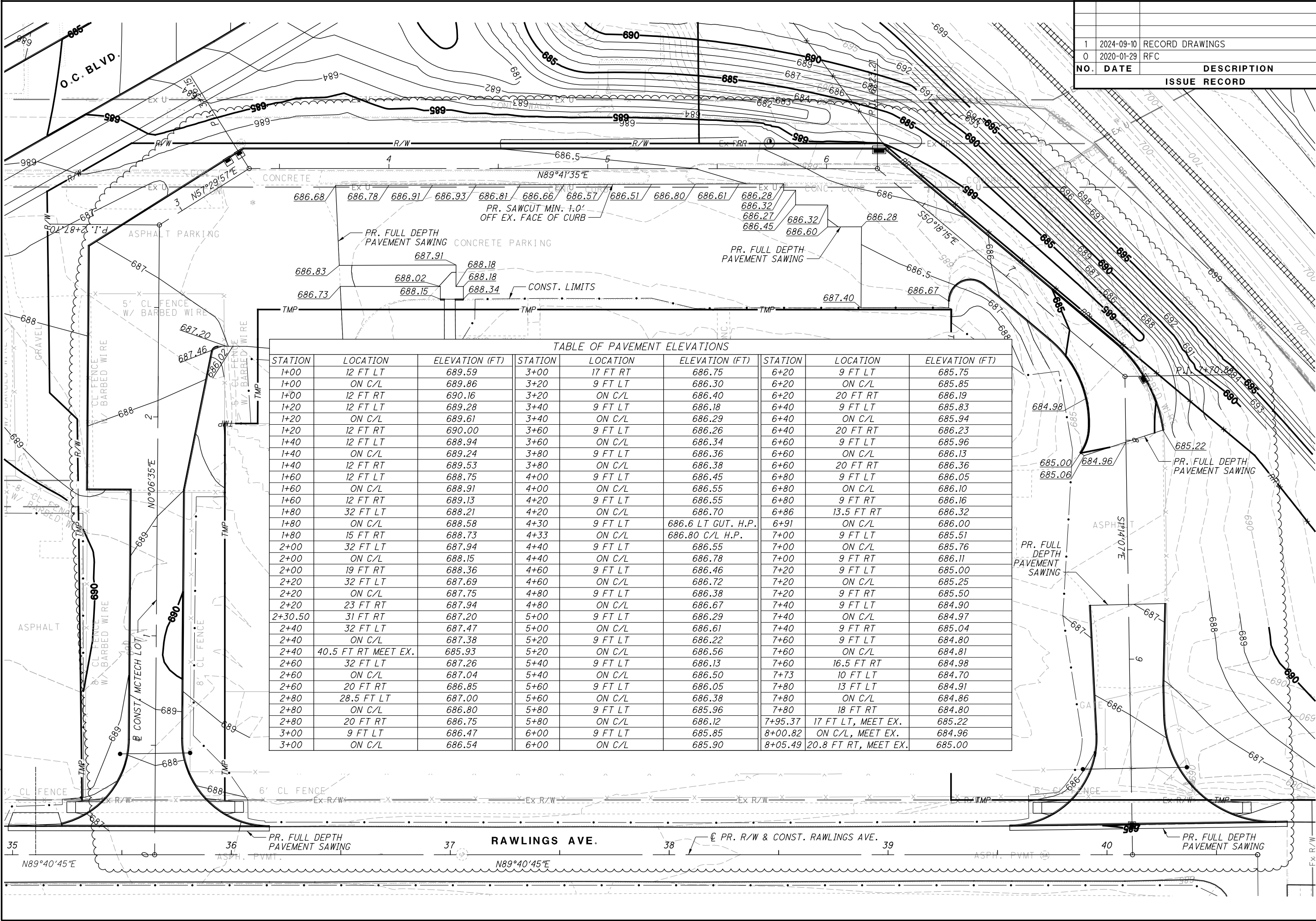
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NO.	DATE	DESCRIPTION
ISSUE RECORD		



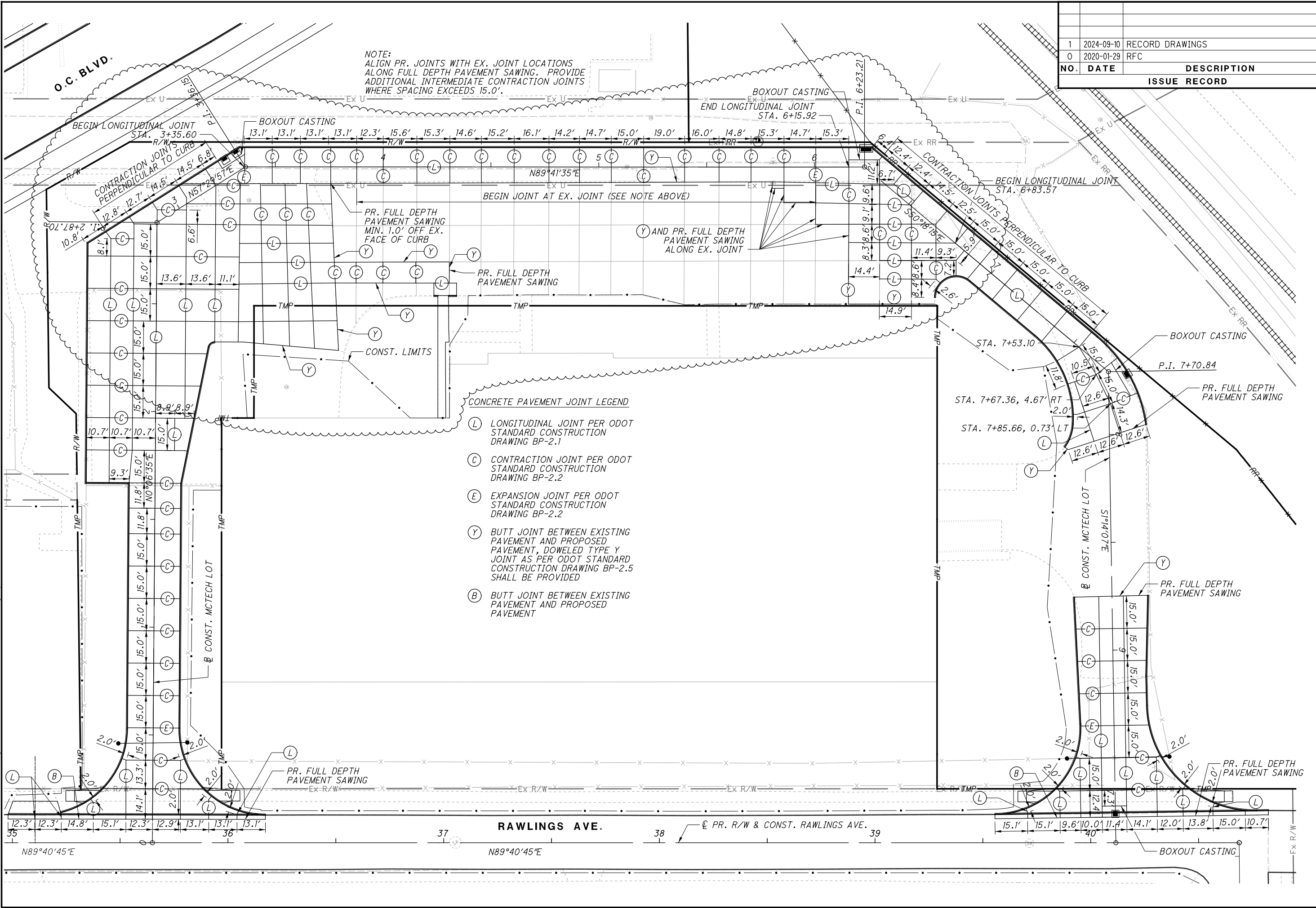
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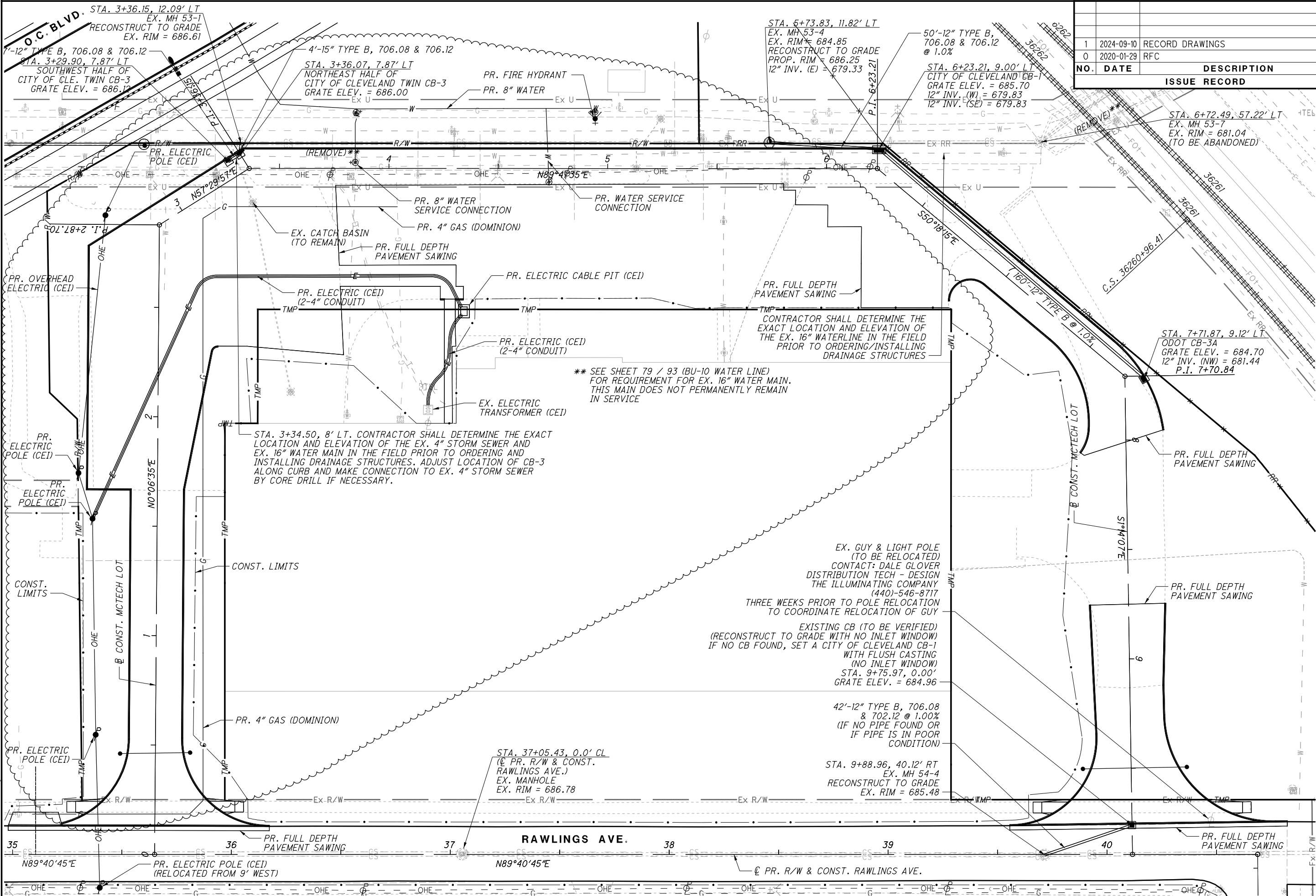
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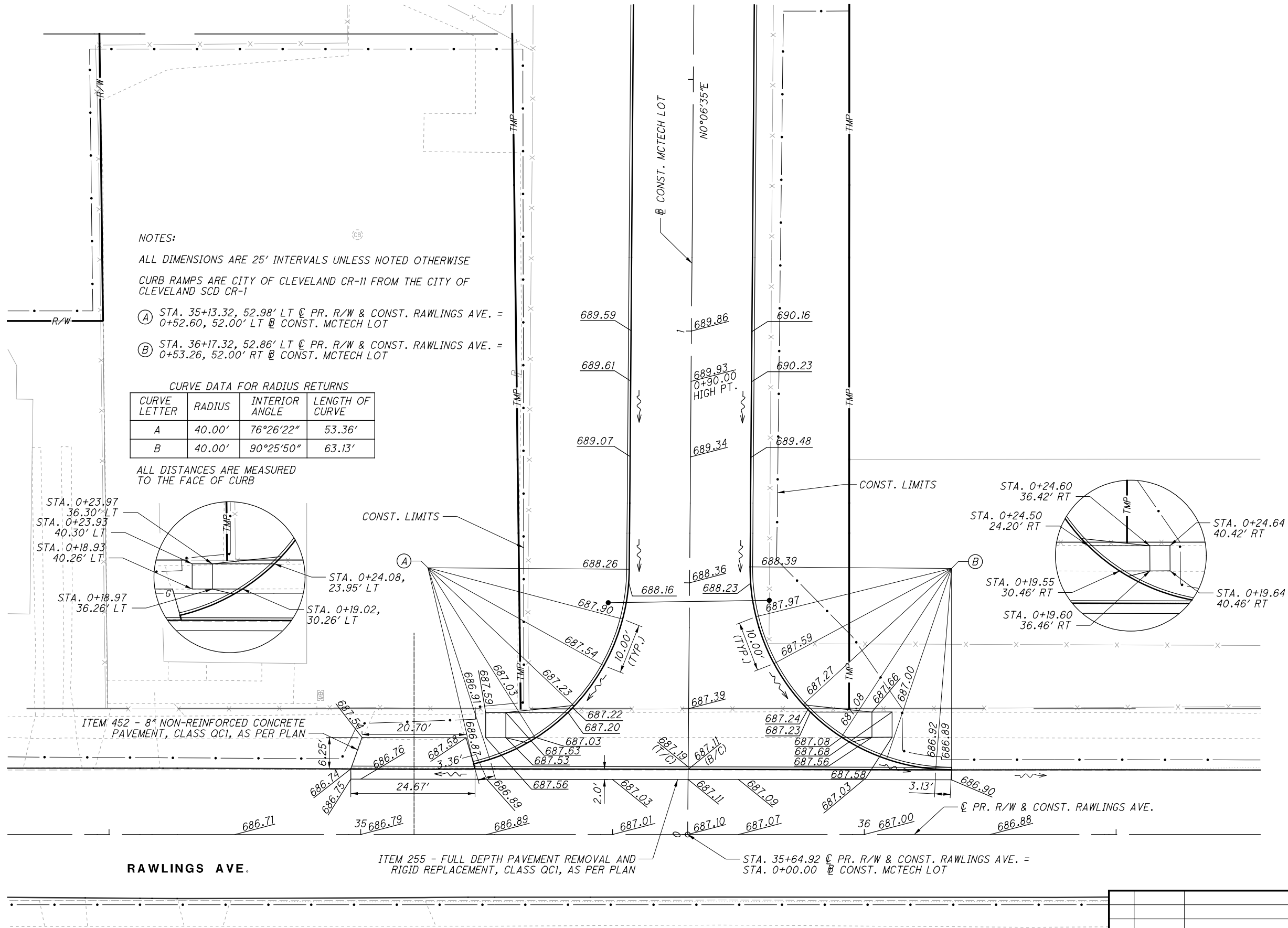
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ISSUE RECORD		



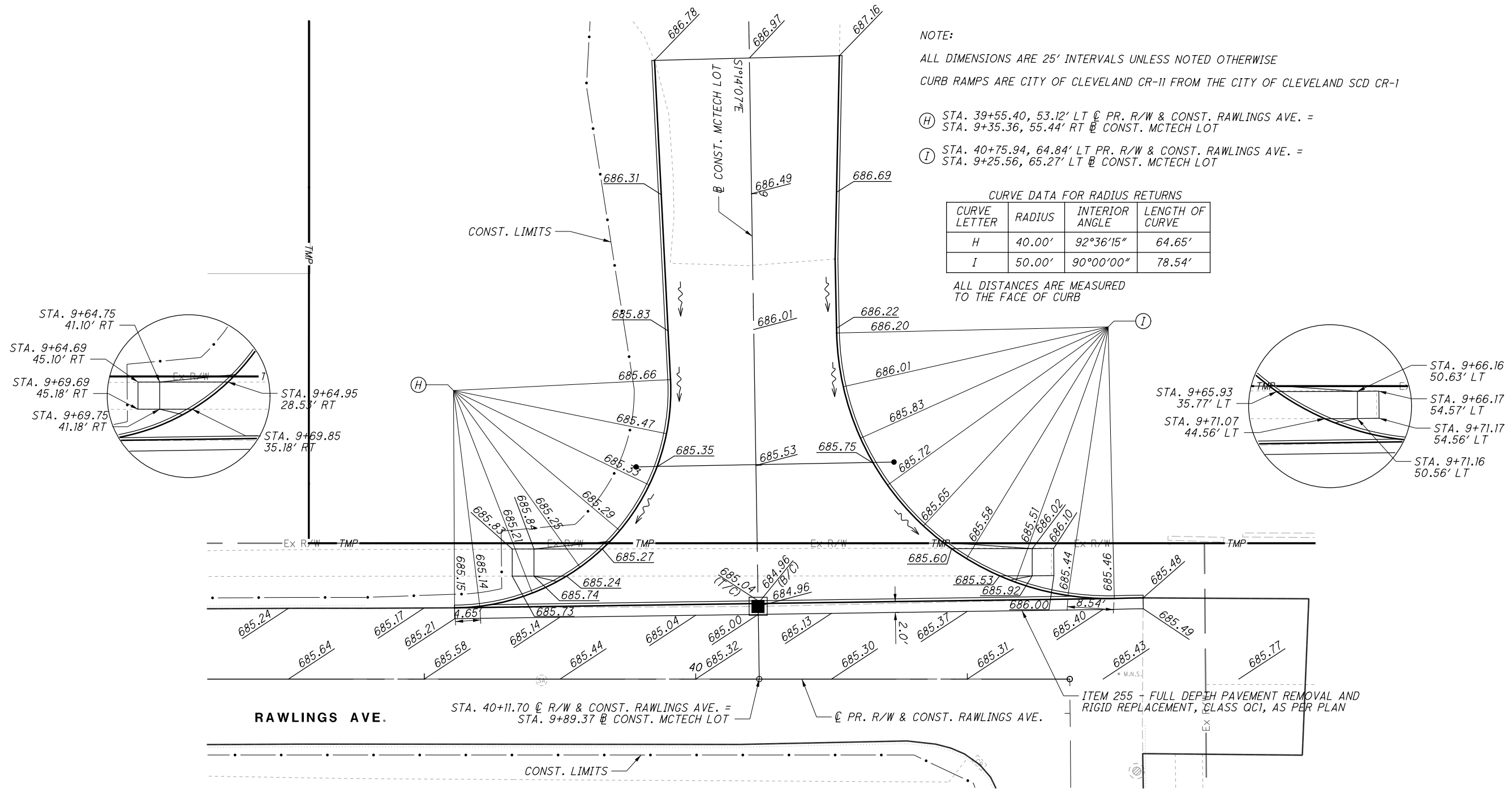
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NO.	DATE	DESCRIPTION
		ISSUE RECORD



NO.		DATE	DESCRIPTION
1		2024-09-10	RECORD DRAWINGS
0		2020-01-29	RFC
ISSUE RECORD			



NO.	DATE	DESCRIPTION
0	2020-01-29	RFC
ISSUE RECORD		



NOTE:
ALL DIMENSIONS ARE 25' INTERVALS UNLESS NOTED OTHERWISE
CURB RAMPS ARE CITY OF CLEVELAND CR-II FROM THE CITY OF CLEVELAND SCD CR-1

- (H) STA. 39+55.40, 53.12' LT @ PR. R/W & CONST. RAWLINGS AVE. =
STA. 9+35.36, 55.44' RT @ CONST. MCTECH LOT
- (I) STA. 40+75.94, 64.84' LT @ PR. R/W & CONST. RAWLINGS AVE. =
STA. 9+25.56, 65.27' LT @ CONST. MCTECH LOT

CURVE DATA FOR RADIUS RETURNS			
CURVE LETTER	RADIUS	INTERIOR ANGLE	LENGTH OF CURVE
H	40.00'	92°36'15"	64.65'
I	50.00'	90°00'00"	78.54'

ALL DISTANCES ARE MEASURED
TO THE FACE OF CURB

0	2020-01-29	RFC
NO.	DATE	DESCRIPTION
ISSUE RECORD		