

COOLIDGE HIGHWAY RESTRIPIPING

BERKLEY
where you want to be



BERKLEY DDA
Retro Feel. Metro Appeal.

CITY OF BERKLEY
OAKLAND COUNTY, MI 48072

ISSUED FOR BID
JANUARY 11, 2019

PREPARED BY:

HRC
HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

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DDA

VIVIAN CARMODY - EXECUTIVE DIRECTOR

MATT BAUMGARTEN
DONNA DIRKSE
PETRO DRAKOPOULOS
JENNIFER FINNEY
LARRY GALLAGHER
ANDY GILBERT
ALANDA KNOX

MITCHELL MOSES
MATTEO PASSALACQUA
DOTTIE POP
RAZUR RAHMAN
BRIAN SCHNICKER
WAYNE WUDYKA

CITY COUNCIL

DAN TERBRACK - MAYOR

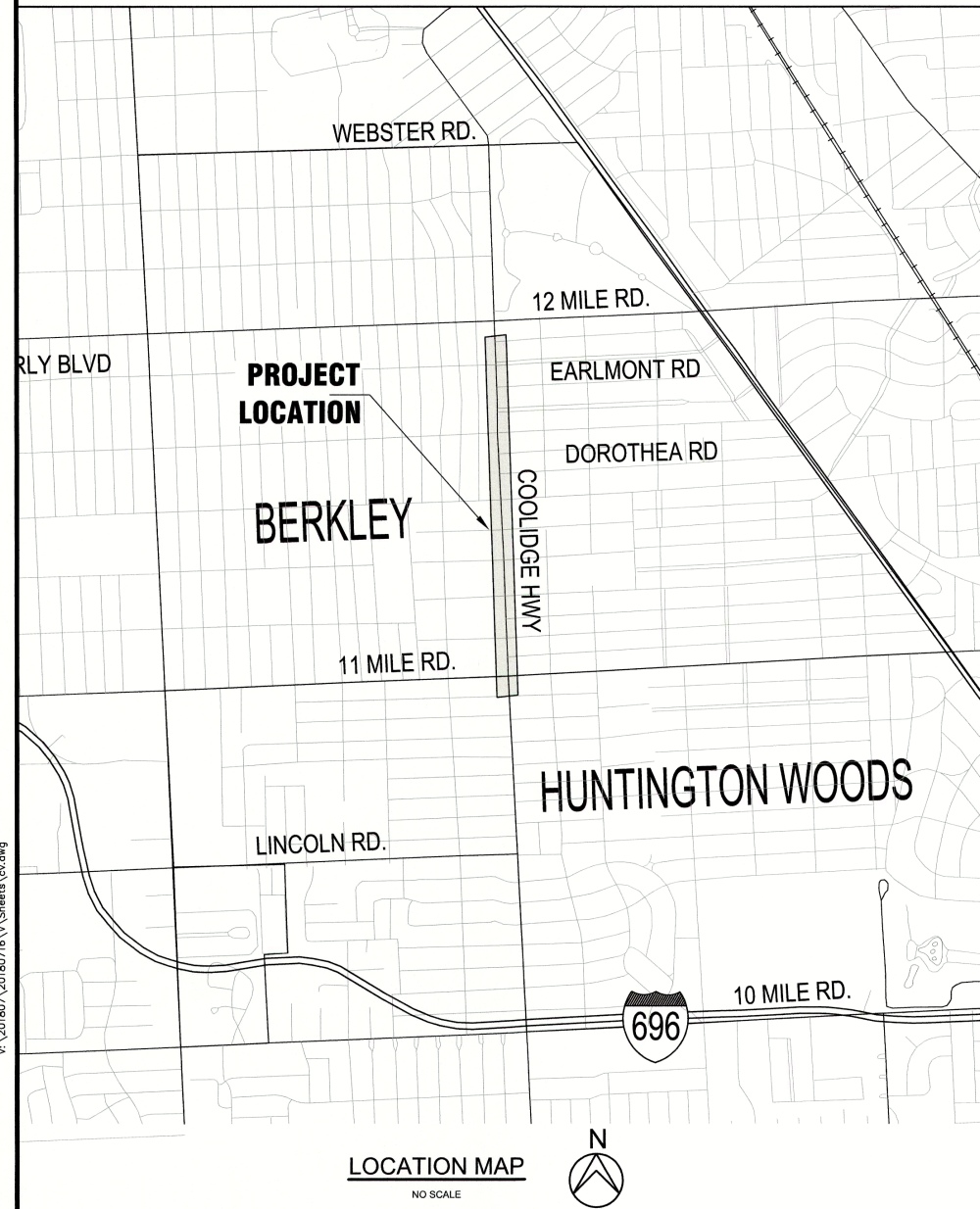
STEPHEN W. BAKER
JACK BLANCHARD
BRIDGET DEAN
ROSS GAVIN
DENNIS S. HENNEN
EILEEN STEADMAN

CITY ADMINISTRATION

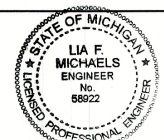
MATTHEW BAUMGARTEN - CITY MANAGER
ANNETTE BOUCHER - CITY CLERK
DERRICK SCHUELLER - PUBLIC WORKS DIRECTOR

LIST OF DRAWINGS

SHEET NO.	SHEET TITLE
COVER	COVER SHEET
TRAFFIC	
T-1	NOTE SHEET
T-2	PAVEMENT MARKING REMOVAL
T-3	PAVEMENT MARKING PLAN
T-4	PAVEMENT MARKING REMOVAL
T-5	PAVEMENT MARKING PLAN
T-6	PAVEMENT MARKING REMOVAL
T-7	PAVEMENT MARKING PLAN
T-8	PAVEMENT MARKING REMOVAL
T-9	PAVEMENT MARKING PLAN



LOCATION MAP
NO SCALE



Lia Michaels
SEAL

HUBBELL, ROTH & CLARK, INC.
JOB NO. 20180716
PREPARED UNDER THE SUPERVISION OF:
LIA F. MICHAELS
REGISTERED PROFESSIONAL ENGINEER
MICHIGAN REGISTRATION NO. 58922

GENERAL

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE M.D.O.T. 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION EXCEPT AS NOTED HEREIN AND IN THE PROPOSAL BOOK.

THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE LOCAL FIRE AND POLICE DEPARTMENTS 24 HOURS IN ADVANCE OF PROPOSED ROAD CLOSURES.

THE CONTRACTOR AND/OR HIS SUBCONTRACTOR SHALL NOTIFY "MISS DIG", (1-800-482-7171 OR 811) AND THE CITY OF BERKLEY WATER, SEWER, FIRE AND POLICE DEPARTMENTS 3 WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

CONTRACTOR TO PROTECT EXISTING ABOVE GROUND AND BELOW GROUND FACILITIES INCLUDING: UTILITIES, POLES, TREES, SHRUBS AND OTHER VEGETATION UNLESS NOTED FOR REMOVAL ON THE PLANS; AND SHALL REPAIR OR REPLACE DAMAGED FACILITIES AT NO COST TO THE OWNER. TREES SHALL BE NEATLY TRIMMED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AND MAINTAIN EXISTING SERVICES TO EXISTING HOMES, INCLUDING SANITARY, WATER, GAS, CABLE AND OTHER UTILITIES.

CONTRACTOR SHALL PROTECT ALL OTHER SITE FEATURES SUCH AS PLANTERS, MAIL BOXES, FENCES, LANDSCAPING, WALLS, WALKS, BENCHES, ETC. AND RESTORE TO ORIGINAL CONDITION IF DAMAGED EXCEPT AS NOTED. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS WORK.

ALL CONSTRUCTION STAGING AREAS SHALL BE APPROVED BY THE PROJECT ENGINEER, THE CITY OF BERKLEY, AND LAND OWNER(S) PRIOR TO START OF CONSTRUCTION. ANY AREAS BEYOND CONSTRUCTION RIGHTS-OF-WAY SECURED BY THE CONTRACTOR FOR USE AS CONSTRUCTION STAGING SHALL BE AT HIS OWN EXPENSE. THE RESTORATION OF ALL STAGING AREAS SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE OF THE WORK OF THIS PROJECT. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS WORK.

FOUR-INCH SIDEWALK IS SUSCEPTIBLE TO CRACKING. THEREFORE, EXISTING SIDEWALK, THE CONTRACTOR CANNOT PUT ANY EQUIPMENT OF ANY KIND ON IT, FOR ANY REASON, EVEN FOR THE TURF ESTABLISHMENT OR RESTORATION WORK OUTSIDE THE SIDEWALK. THE CONTRACTOR SHALL PLAN AND STAGE NECESSARY WORK OUTSIDE THE SIDEWALK TO PREVENT THE PLACEMENT OF ANY EQUIPMENT ON THE SIDEWALK. EXISTING OR NEW, CRACKED, CHIPPED, SPALLED, OR DAMAGED SIDEWALK, NEW OR EXISTING, SHALL NOT BE ACCEPTED AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

RESTORATION

ALL AREAS DISTURBED BY THE CONTRACTOR AND/OR HIS SUBCONTRACTOR BEYOND THE PROJECT WORK LIMITS OF THIS SPECIFIED OR DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE MADE FOR THIS ACTIVITY.

THE CONTRACTOR SHALL NOT PERFORM ANY SIDE WORK CONTRACTED PRIVATELY WITHIN THE CONSTRUCTION AREA.

PLAN INFORMATION

PLAN DIMENSIONS AND MEASUREMENTS ARE BASED ON FIELD TOPOGRAPHIC SURVEY BY: HUBBELL, ROTH & CLARK, INC. (SEPTEMBER 2016). PROPERTY OWNER'S NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY, AND THEIR ACCURACY IS NOT GUARANTEED.

UTILITIES

THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AS OBTAINED FROM SURVEYS AND FROM UTILITY RECORD MAPS. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO NOTIFY THE PROPER UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING UTILITIES AND THEIR LOCATIONS AS PART OF THE CONSTRUCTION OF THIS PROJECT. ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN, PURSUANT TO ACT 53 OF THE PA OF 1974 AS A CONDITION OF THIS CONTRACT NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED.

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE PROJECT LIMITS:

NAME & ADDRESS OF UTILITY

CONSUMERS ENERGY CO
CHRISTOPHER SCHNEIDER
ROYAL OAK OFFICE
4600 COOLIDGE HWY
ROYAL OAK, MI 48073
(248) 433-5618
EMER: (800) 477-5050

DETROIT EDISON UNDERGROUND
MARK SCHRAM
1970 ORCHARD LAKE RD
SYLVAN LAKE, MI 48320
(586) 215-4373
EMER: (800) 477-4747

DETROIT EDISON PLANNING
37849 INTERCHANGE DR
FARMINGTON HILLS, MI 48335
JIM HAMMOND
(586) 427-2982
JONATHON WEIRATH
(586) 427-2952

CITY OF BERKLEY
DERRICK SCHUELLER
3238 BACON
BERKLEY, MI 48072
DEPARTMENT OF PUBLIC WORKS
(248) 658-3490

AT&T
DEAN JONES
54 N MILLS ST, BOX 33
PONTIAC, MI 48342
(248) 972-0139
EMER: (800) 515-7272

MCLEOD USA
GREG SERICH
1295 S LINDEN RD
FLINT, MI 48532
(810) 244-3500

SOCWA
3910 WEBSTER RD
ROYAL OAK, MI 48073
BOB JACKOVICH
(248) 229-9815

ROAD COMMISSION FOR OAKLAND COUNTY
SEAN MURPHY
2420 PONTIAC LAKE RD
WATERFORD, MI 48328
(248) 858-4785

COMCAST CABLEVISION
KAREN SKELLY-LAUBER
27800 FRANKLIN RD
SOUTHFIELD, MI 48034
(248) 809-2706

THE CONTRACTOR SHALL, BEFORE EACH DAYS WORK, OR WHEN MOVING TO A NEW AREA OF WORK, DETERMINE AND EVALUATE THE LOCATION OF ALL UNDERGROUND FACILITIES IN THE AREA. IF LOCATION STAKES HAVE BEEN MOVED OR DO NOT APPEAR CORRECT, THE CONTRACTOR SHALL NOT EXCAVATE UNTIL ALL UTILITIES HAVE HAD AN OPPORTUNITY TO CHECK OR RESTAKE THEIR LOCATIONS. ANY INCURRED DUE TO CHECKING OR RESTAKING OF UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION.

ALL GAS FACILITIES SHALL BE PROTECTED AND SUPPORTED PER DISTRIBUTION STANDARDS AND REQUIREMENTS.

FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL DIAL (800) 482-7171, OR 811 A MINIMUM OF 3 FULL WORKING DAYS, EXCLUDING SATURDAY, SUNDAY AND HOLIDAYS, PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

MAINTAINING TRAFFIC

TRAFFIC SHALL BE MAINTAINED AS SHOWN ON THE PLANS AND AS DETAILED IN THE MDOT SPECIFICATION. ALL WORK THAT HAS NOT BEEN ACCOUNTED FOR IN A PARTICULAR BID ITEM SHALL BE INCLUDED IN LUMP SUM AMOUNT BID FOR Traffic Control and Minor Traf Devices.

ALL EXCAVATED AREAS SHALL BE DELINEATED BY PLASTIC DRUMS AT THE CLOSE OF EACH DAY ALONG THE ENTIRE LENGTH OF ANY EXCAVATION. PLASTIC DRUMS TO BE PLACED OVER ALL EXPOSED CASTINGS IN ROADWAY AT CLOSE OF EACH DAY. TYPE II'S ON THE PROJECT TO BE PLASTIC DRUMS, HIGH INTENSITY FURNISHED AND MAINTAINED BY THE CONTRACTOR.

CONTRACTOR SHALL MAINTAIN SAFE, DUST FREE CONDITIONS ON EXISTING STREETS WHICH SHALL REQUIRE DAILY REMOVAL OF EARTH TRACKED OR SPILED ON ROAD SURFACE, AND OTHER DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT ENGINEER. EXCESSIVE DUST WILL NOT BE TOLERATED AT ANY TIME DURING CONSTRUCTION. NO ADDITIONAL PAYMENT BE ALLOWED FOR THIS WORK.

AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ANY ADDITIONAL SIGNS, BARRICADES AND LIGHTS WITHIN THE PROJECT TO PROTECT THE TRAFFIC AND WORK AREA.

ALL TRAFFIC DEVICES PLACED BY THE CONTRACTOR SHALL CONFORM TO THE DESIGN, CONDITION, PLACEMENT AND LIGHTING REQUIREMENTS SPECIFIED IN THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), 2011 EDITION. ALL TRAFFIC DEVICES SHALL BE MAINTAINED DURING CONSTRUCTION.

ESTABLISH CONSTRUCTION SIGNS AS SHOWN ON THE PLAN WITH SPACING IN ACCORDANCE TO THE MMUTCD, 2011 EDITION.

SIGN LOCATION AND DISTANCES BETWEEN SIGNS SHOULD BE FIELD REVIEWED BY THE ENGINEER BEFORE PLACING TO ASSURE APPROPRIATE PLACEMENT. THE LOCATION OF THE CONSTRUCTION SIGNING SHALL BE CLEARLY MARKING IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF ONE WEEK IN ADVANCE.

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL TRAFFIC CONTROL DEVICES WITHIN THE PROJECT LIMITS. ANY TRAFFIC CONTROL DEVICES DAMAGED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE. THE CONTRACTOR WILL BE CHARGED FOR ANY DAMAGED TRAFFIC CONTROL DEVICES DUE TO THE CONTRACTOR'S OPERATION WHICH ARE REPAIRED OR REPLACED BY THE OWNER.

THE CONTRACTOR SHALL PLACE SANDBAGS ON THE TYPE III BARRICADES TO PREVENT MOVEMENT. THE CONTACTOR SHALL ATTACH AND MAINTAIN TWO (2) STEADY BURN AMBER LIGHTS (TYPE "C") ON EACH OF THESE BARRICADES. ALL TYPE III BARRICADES SHALL BE DOUBLE SIDED.

CONSTRUCTION SIGNING MOUNTED ON PORTABLE SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN THREE (3) DAYS. OTHERWISE, SIGNS SHALL BE GROUND MOUNTED ON 3 LB U-CHANNEL POSTS WHEN POSSIBLE. THE FOLLOWING SIGNS MAY BE PLACED ON TEMPORARY SUPPORTS: SIGNS PLACED IN CONJUNCTION WITH THE TYPE III BARRICADES AND SIGNS WITHIN THE CLOSED PORTION OF THE ROADWAY ITSELF.

ALL SIGNS PLACED IN CONJUNCTION WITH A TYPE III BARRICADE SHALL BE PLACED ON SEPARATE SUPPORTS IMMEDIATELY BEHIND AND ABOVE THE TYPE III BARRICADE. THESE SIGNS SHALL BE INSTALLED ON TEMPORARY SUPPORTS. THE CONTRACTOR SHALL PLACE A SANDBAGS ON THESE SIGNS TO PREVENT MOVEMENT.

TRAFFIC CHANNELING DEVICES (PLASTIC BARRELS) FURNISHED BY THE CONTRACTOR FOR WORK PROTECTION SHALL BE COATED WITH REFLECTORIZED MATERIAL AND AT A SPACING BASED ON POSTED SPEED LIMIT AND PER THE MMUTCD, 2011 EDITION.

ALL NON-APPLICABLE SIGNING WITHIN THE CONSTRUCTION AREA SHALL BE MODIFIED TO FIT CONDITIONS, COVERED OR REMOVED.

ABBREVIATIONS

HORIZONTAL CURVES

- D DEGREE OF CURVATURE
- R RADIUS
- Δ CENTRAL ANGLE
- T TANGENT
- L ARC LENGTH
- CH. BRG. CHORD BEARING (LONG CHORD)
- L.C. CHORD LENGTH
- P.C. POINT OF CURVATURE
- P.C.C. POINT OF COMPOUND CURVATURE
- P.I. POINT OF INTERSECTION
- P.T. POINT OF TANGENCY
- P.O.C. POINT ON CURVE
- P.R.C. POINT OF REVERSE CURVATURE

VERTICAL CURVES

- P.V.C. POINT OF VERTICAL CURVE
- P.V.I. POINT OF VERTICAL INTERSECTION
- P.V.T. POINT OF VERTICAL TANGENCY

GENERAL

- E/M EDGE OF METAL
- EX/EXIST. EXISTING
- P.O.R. POINT OF ROTATION
- P.O.B. POINT OF BEGINNING
- P.O.E. POINT OF ENDING
- H.C.P. HORIZONTAL CONTROL POINT
- B.M. BENCH MARK
- M.S.E. MECHANICALLY STABILIZED EMBANKMENT
- STM. STORM SEWER
- SAN. SANITARY SEWER
- W.M. WATERMAIN
- R.O.W. RIGHT-OF-WAY
- T/C TOP OF CURB
- F.J. HYDRANT FROST JACKET ELEVATION
- S.S.L. SLOPE STAKE LINE
- C.I.P. COMPACTED IN PLACE
- C.S.B. COMPLETE SAND BACKFILL
- OCWRC OAKLAND COUNTY WATER RESOURCES COMMISSION

LEGEND

ITEM	EXISTING	PROPOSED
BUILDING		
RIGHT-OF-WAY		
PROPERTY LINE		
STORM MANHOLE		
SANITARY MANHOLE		
CATCHBASIN		
PAVEMENT MARKING		

PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED OUTSIDE THE PROJECT LIMITS ON COOLIDGE HIGHWAY 10 DAYS PRIOR TO CONSTRUCTION. THE MESSAGE SHALL READ "NEW TRAFFIC PATTERN" "STARTS XX-XX-XX".

QUANTITIES - THIS SHEET		
PAY ITEM	QTY	UNIT
Mobilization, Max	1	LSUM
Flag Control	1	LSUM
Channelizing Device, 42 inch, Furn	100	Ea
Channelizing Device, 42 inch, Oper	100	Ea
Lighted Arrow, Type C, Furn	2	Ea
Lighted Arrow, Type C, Oper	2	Ea
Sign, Type B, Temp, Prismatic, Furn	250	Sft
Sign, Type B, Temp, Prismatic, Oper	250	Sft
Traffic Regulator Control	1	LSUM
Minor Traf Devices	1	LSUM
Sign, Portable, Changeable Message, Furn	1	Ea
Sign, Portable, Changeable Message, Oper	1	Ea
Color Audio Video Route Survey	1	LSUM
Observation Crew Days	10	Day

PARKING ANALYSIS

EXISTING ON-STREET PARKING = 86 SPACES
 PROPOSED ON-STREET PARKING = 134 SPACES
 NET CHANGE = 48 SPACES



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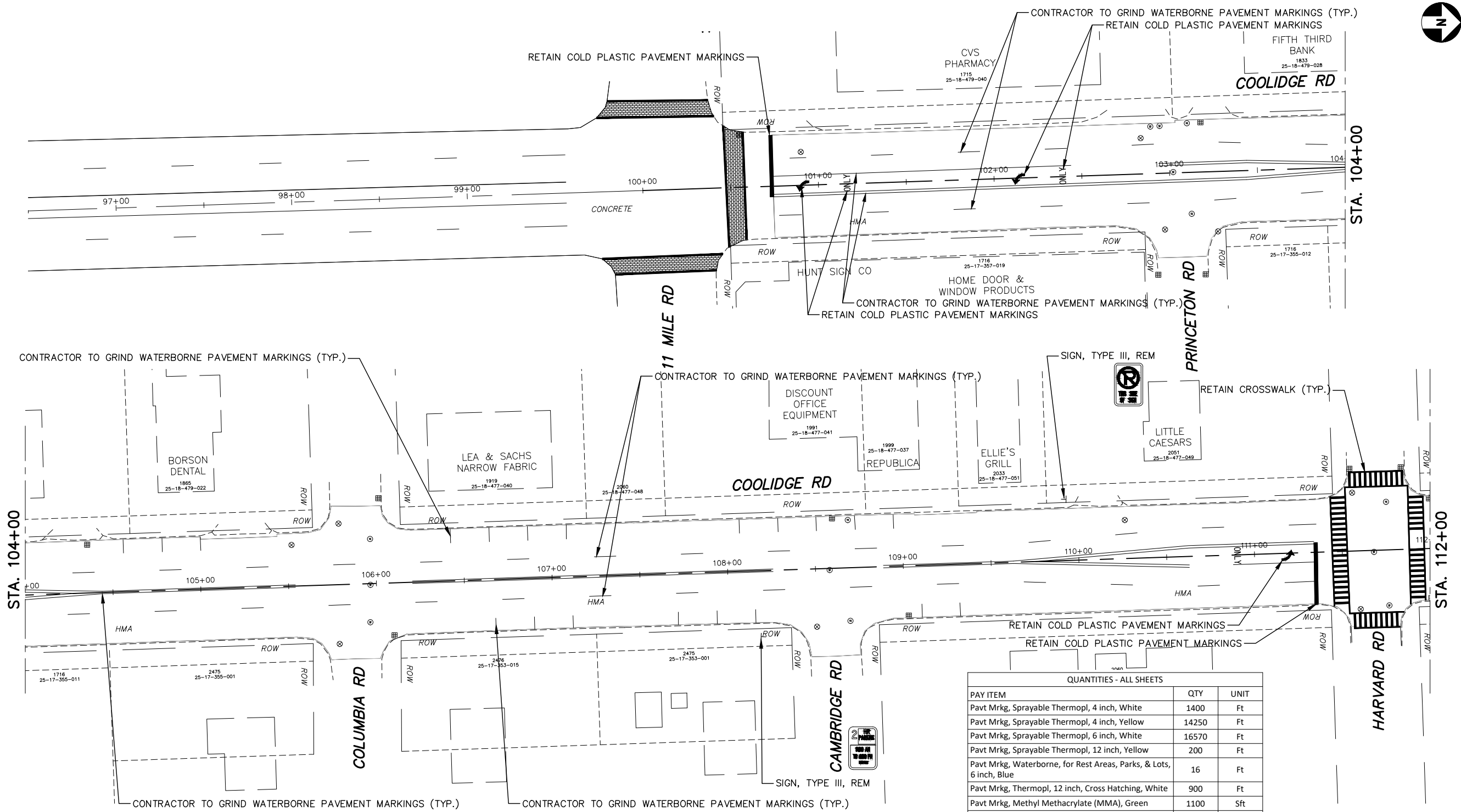
1/11/2019	ISSUED FOR BID
1/2/2019	ISSUED FOR OWNERS REVIEW
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	CHS
DRAWN	ECH
CHECKED	CHS
APPROVED	CHS



CITY OF BERKLEY
COOLIDGE RESTRIPING

NOTE SHEET

HRC JOB NO. 20180716	SCALE NTS
DATE November 2018	SHEET NO. T-1 OF



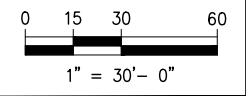
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QUANTITIES - ALL SHEETS		
PAY ITEM	QTY	UNIT
Pavt Mrkg, Sprayable Thermopl, 4 inch, White	1400	Ft
Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	14250	Ft
Pavt Mrkg, Sprayable Thermopl, 6 inch, White	16570	Ft
Pavt Mrkg, Sprayable Thermopl, 12 inch, Yellow	200	Ft
Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 6 inch, Blue	16	Ft
Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, White	900	Ft
Pavt Mrkg, Methyl Methacrylate (MMA), Green	1100	Sft
Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym	2	Ea
Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym	6	Ea
Pavt Mrkg, Ovly Cold Plastic, Only	1	Ea
Pavt Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk	1600	Ft
Pavt Mrkg, Ovly Cold Plastic, Bike, Small Symbol	26	Ea
Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	26	Ea
Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	3	Ea
Sign, Type III, Rem	10	Ea
Sign, Type IIIB	165	Sft
Post, Steel, 3 lb	255	Ft
Rem Spec Mrkg	1800	Sft
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	17000	Ft

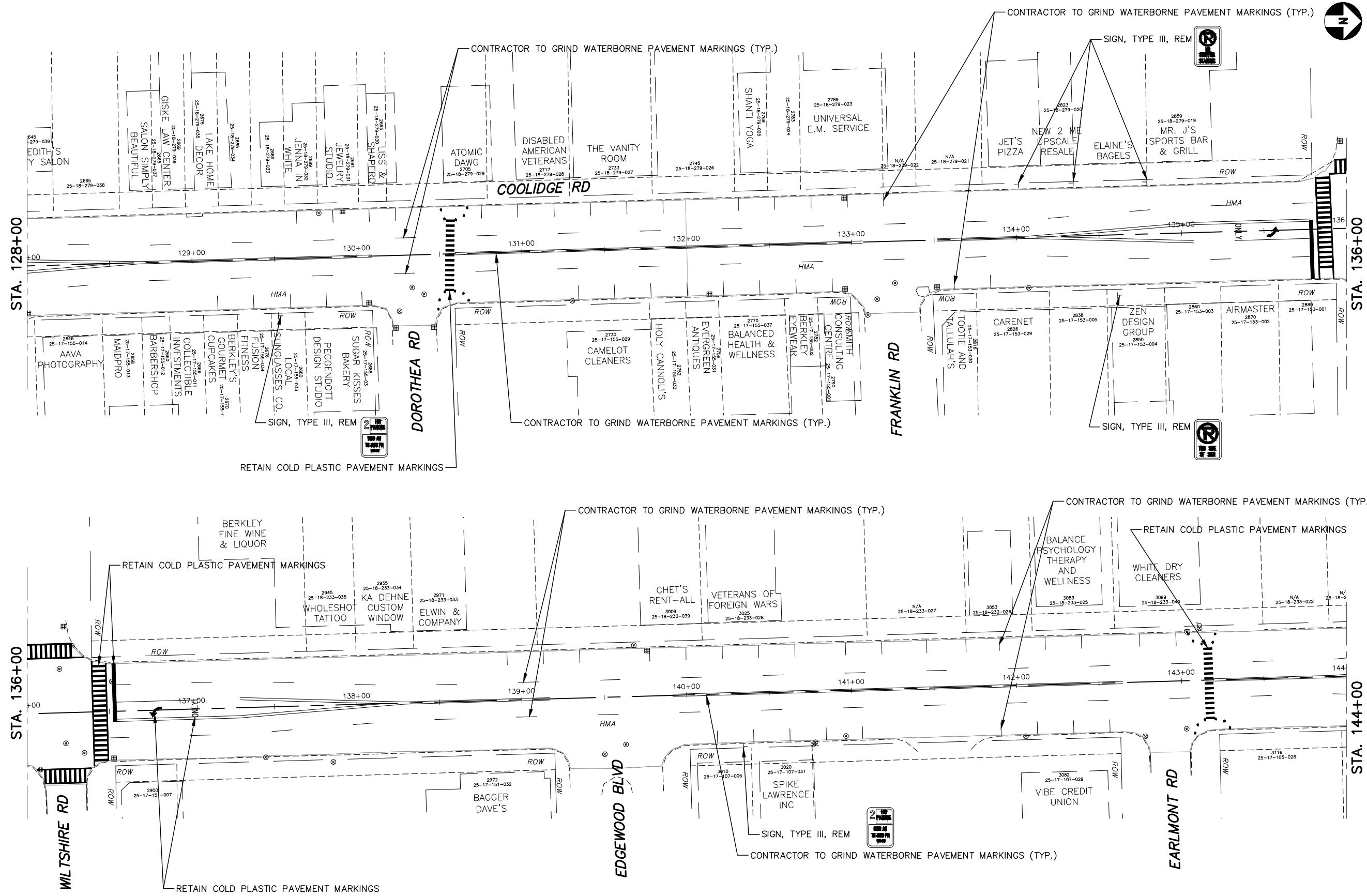
NOTE:
 1. ALL REMOVED SIGNS SHALL BE SALVAGED AND GIVEN TO THE CITY.



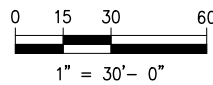
CITY OF BERKLEY
COOLIDGE RESTRIPING

PAVEMENT MARKING REMOVAL
 STATION 96+50 TO
 STATION 112+00

HRC JOB NO. 20180716	SCALE 1" = 30'
DATE January 2019	SHEET NO. T-2



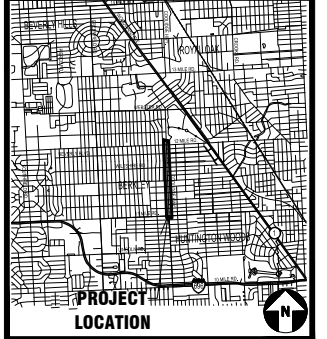
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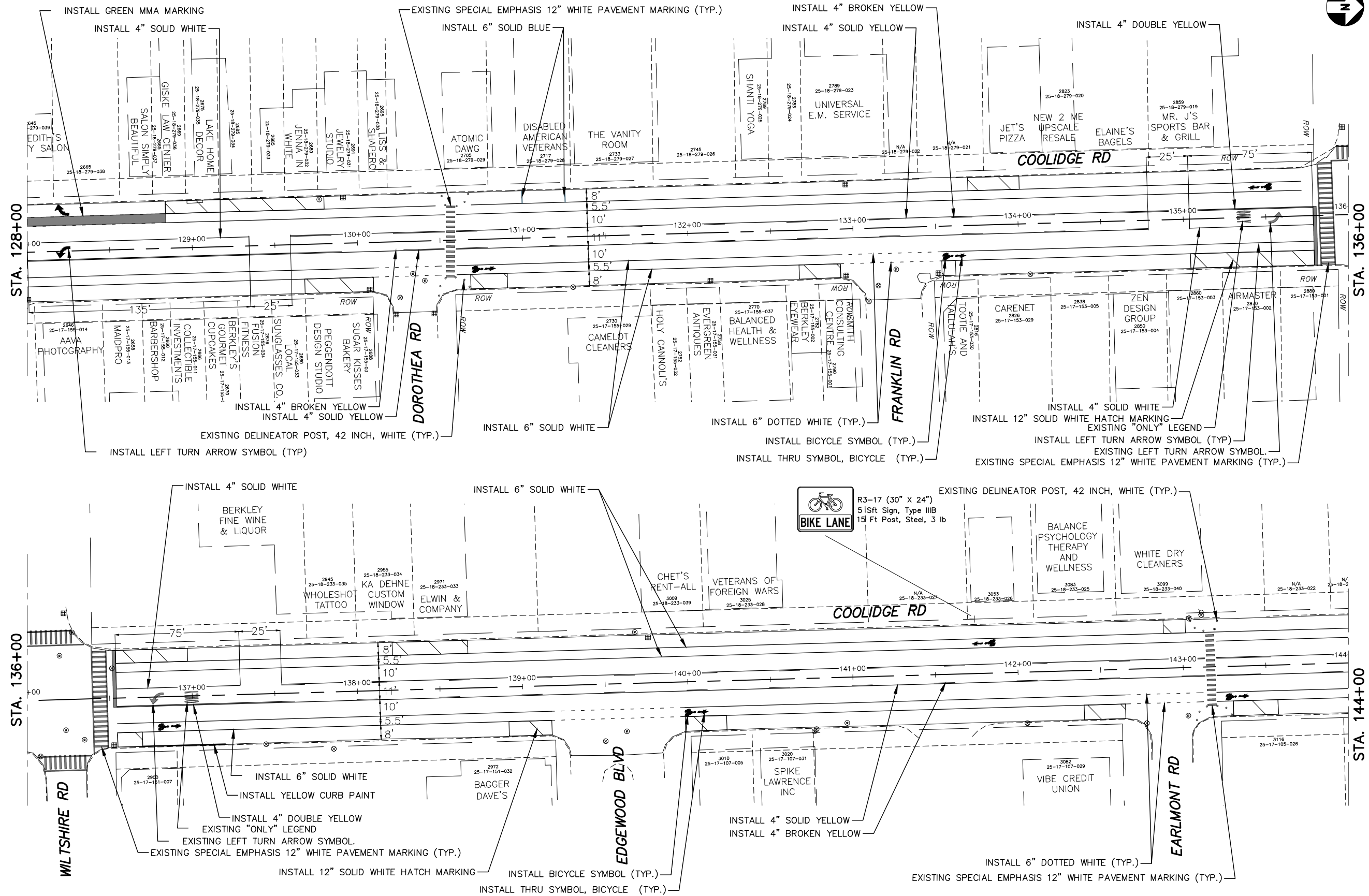
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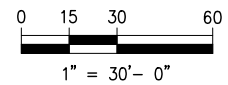
CITY OF BERKLEY
COOLIDGE RESTRIPING

PAVEMENT MARKING REMOVAL
 STATION 128+00 TO
 STATION 144+00

HRC JOB NO. 20180716	SCALE 1" = 30'
DATE January 2019	SHEET NO. T-6



NOTE:
 1. PAVEMENT MARKINGS AND SIGNS SHALL BE LAID OUT BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
 2. YELLOW CURB PAINT PAID FOR AS "PAVT MRKG, SPRAYABLE THERMOPL, 12 INCH, YELLOW"



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CITY OF
BERKLEY
COOLIDGE
RESTRIPING

PROPOSED PAVEMENT MARKINGS
 STATION 128+00 TO
 STATION 144+00

HRC JOB NO. 20180716	SCALE 1" = 30'
DATE January 2019	SHEET NO. T-7

