

# CITY OF LATHRUP VILLAGE

IN COOPERATION WITH  
MICHIGAN DEPARTMENT OF TRANSPORTATION AND  
FEDERAL HIGHWAY ADMINISTRATION

## SOUTHFIELD ROAD TRAFFIC SIGNAL

BETWEEN MARGATE AVENUE AND KILBIRNIE AVENUE

CONTROL SECTION No. 63000  
MDOT JOB No. 220123  
HRC JOB No. 20220916

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### GENERAL PROVISIONS

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND MICHIGAN DEPARTMENT OF TRANSPORTATION NON-FREEWAY, NON-NHS 3R GUIDELINES.

PLACING OF TRAFFIC CONTROL SIGNS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THIS WORK WILL BE DONE PRIOR TO THE FINAL ACCEPTANCE OF THIS PROJECT.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. THE CITY OF FARMINGTON HILLS AND HUBBELL, ROTH & CLARK, INC. WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATIONS FROM THE LOCATIONS SHOWN. PURSUANT TO ACT 174 OF THE PA OF 2013 AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT. PHONE (800) 462-7171 OR (248) 647-7344 OR 811.

HORIZONTAL ALIGNMENT IS BASED ON STATE PLANE COORDINATES. VERTICAL DATUM IS NAVD83.



**KELLY GARRETT**  
MAYOR

**BRUCE KANTOR**  
**JALEN C. JENNINGS**  
**DALTON BARKSDALE**  
**JASON HAMMOND**  
COUNCIL MEMBERS

STANDARD PLANS		
CONSTRUCTION OF THE FOLLOWING ITEMS, WHERE CALLED FOR ON THE PLANS, WILL BE CONSTRUCTED ACCORDING TO MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD PLANS AS INDICATED.		
REQUIRED ON THIS PROJECT	ITEMS OF WORK	STANDARD PLAN NUMBERS
X	CURB RAMP AND DETECTABLE WARNING DETAILS	R-28-K*
X	DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS	R-29-J*
X	CONCRETE CURB AND CONCRETE CURB AND GUTTER	R-30-G
X	SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E

\* SEE MDOT SPECIAL DETAIL

TRAFFIC AND SAFETY STANDARD PLANS		
CONSTRUCTION OF THE FOLLOWING ITEMS, WHERE CALLED FOR ON THE PLANS, WILL BE CONSTRUCTED ACCORDING TO MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD PLANS AS INDICATED.		
REQUIRED ON THIS PROJECT	ITEMS OF WORK	STANDARD PLAN NUMBERS
X	GROUND DRIVEN SIGN SUPPORTS FOR TEMP. SIGNS	WZD-100-A
X	TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E

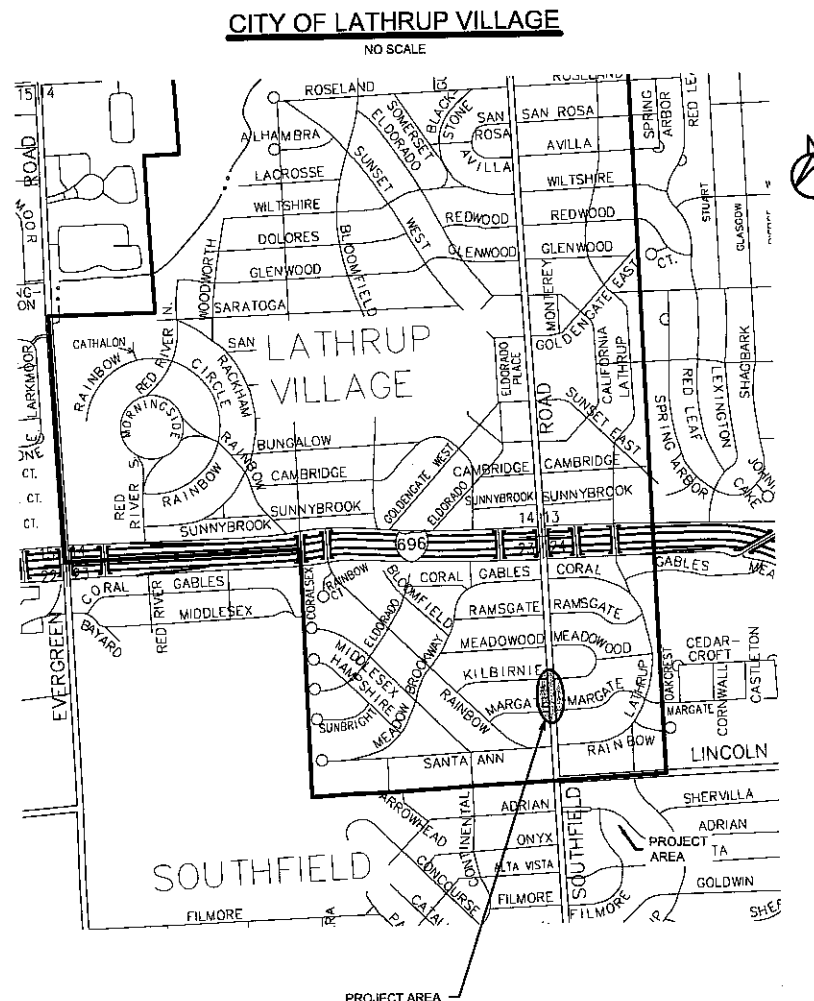
\* SEE MDOT SPECIAL DETAIL

TRAFFIC SIGNAL STANDARD PLANS		
CONSTRUCTION OF THE FOLLOWING ITEMS, WHERE CALLED FOR ON THE PLANS, WILL BE CONSTRUCTED ACCORDING TO MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD PLANS AS INDICATED.		
REQUIRED ON THIS PROJECT	ITEMS OF WORK	STANDARD PLAN NUMBERS
X	TRAFFIC SIGNAL MAST ARM POLE AND MAST ARM LOADING TABLE AND DESIGN CRITERIA	SIG-030-A
X	TRAFFIC SIGNAL MAST ARM POLE AND MAST ARM DETAILS - CATEGORY III	SIG-033-A
X	TRAFFIC SIGNAL MAST ARM STANDARD FOUNDATIONS	SIG-040-B
X	GLOBAL POSITIONING SYSTEM (GPS) MODULE	SIG-120-A
X	SECONDARY SERVICE/DISCONNECT FOR STEEL POLES	SIG-201-A
X	COLOR CODE WIRING/EQUIPMENT GROUNDING	SIG-230-A
X	HANDHOLE PRECAST POLYMER CONCRETE	SIG-240-A
X	CONDUIT (DIRECT BURIAL/ENCASED)	SIG-250-A
X	MAST ARM MOUNTED TS BRACKET ASSEMBLY	SIG-301-A

\* SEE MDOT SPECIAL DETAIL

SCALE  
FULL SIZE  
PLAN SHEET HOR. 1" = 20'  
PROFILE VER. 1" = 5'

SCALE  
REDUCED SIZE  
PLAN SHEET HOR. 1" = 40'  
PROFILE VER. 1" = 10'



### TRAFFIC DATA

#### SPEEDS

	DESIGN	POSTED
SOUTHFIELD ROAD	50 mph	45 mph

#### TRAFFIC VOLUMES (ADT)

	2024	2044	(COMMERCIAL)
SOUTHFIELD ROAD	39,000	47,500	3%

CONTRACT FOR:  
CONSTRUCTING A SIGNALIZED, MID-BLOCK PEDESTRIAN CROSSING AT SOUTHFIELD ROAD BETWEEN MARGATE AVENUE AND KILBIRNIE AVENUE IN LATHRUP VILLAGE. THE TRAFFIC SIGNALS WILL BE MAST ARM MOUNTED WITH PUSHBUTTONS FOR CROSSING PEDESTRIAN TRAFFIC. THE PROJECT WILL INCLUDE SIDEWALK WORK, PAVEMENT MARKINGS, AND CULVERTS INSTALLED TO BRING THE SIDEWALKS UP TO GRADE.

**CITY OF LATHRUP VILLAGE**  
27400 SOUTHFIELD ROAD  
LATHRUP VILLAGE, MI 48076

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER

CONTRACT FOR:

CITY LATHRUP VILLAGE  
SOUTHFIELD ROAD BETWEEN MARGATE AVENUE AND  
KILBIRNIE AVENUE

SHEET  
NUMBER  
1

PREPARED UNDER THE SUPERVISION OF:

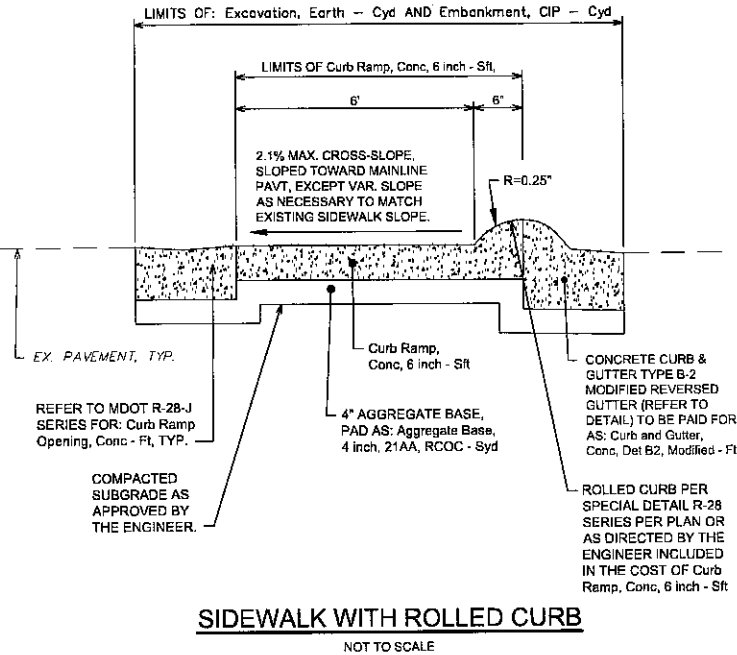


**HUBBELL, ROTH & CLARK, INC**  
Consulting Engineers

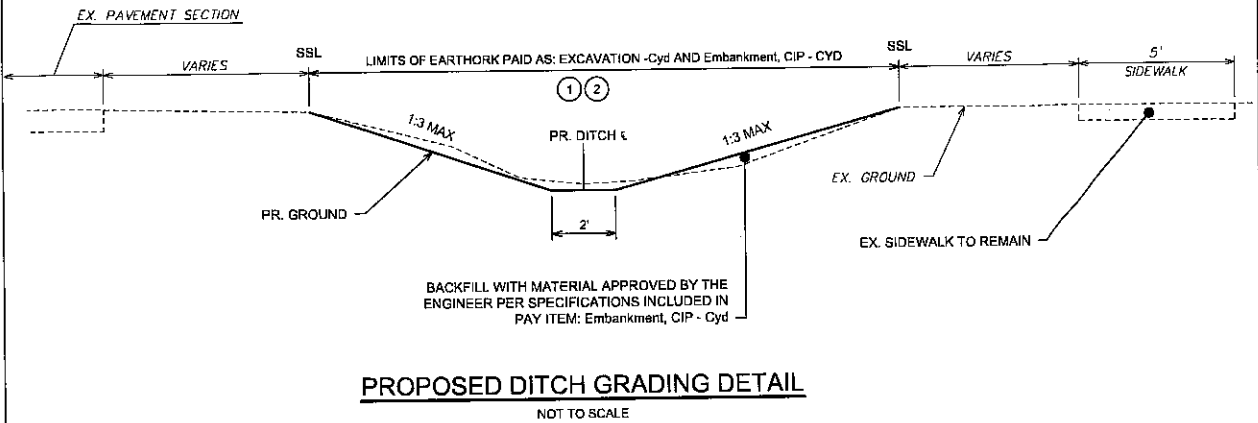
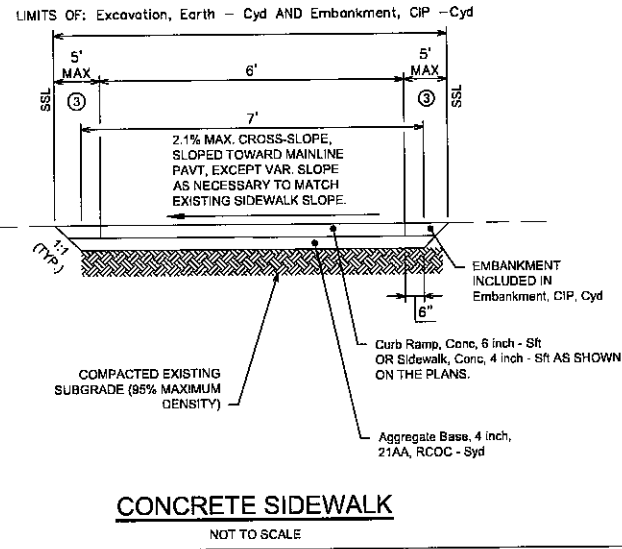
555 HULET DRIVE  
BLOOMFIELD HILLS, MICH.

P.O. BOX 824  
48303 - 0824

NOTES:  
 1. SIDEWALK JOINTS PAID AS PART OF SIDEWALK PAY ITEM. LOCATION OF SIDEWALK JOINTS AND JOINT DETAILS SHALL BE IN ACCORDANCE WITH MDOT STANDARD PLAN R-29 SERIES.  
 2. SIDEWALK RAMPS CONSTRUCTED IN ACCORDANCE WITH SPECIAL DETAIL R-28 SERIES.

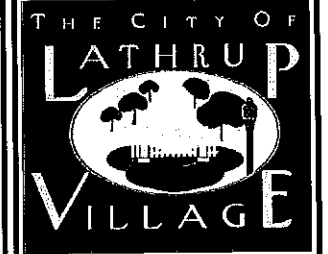
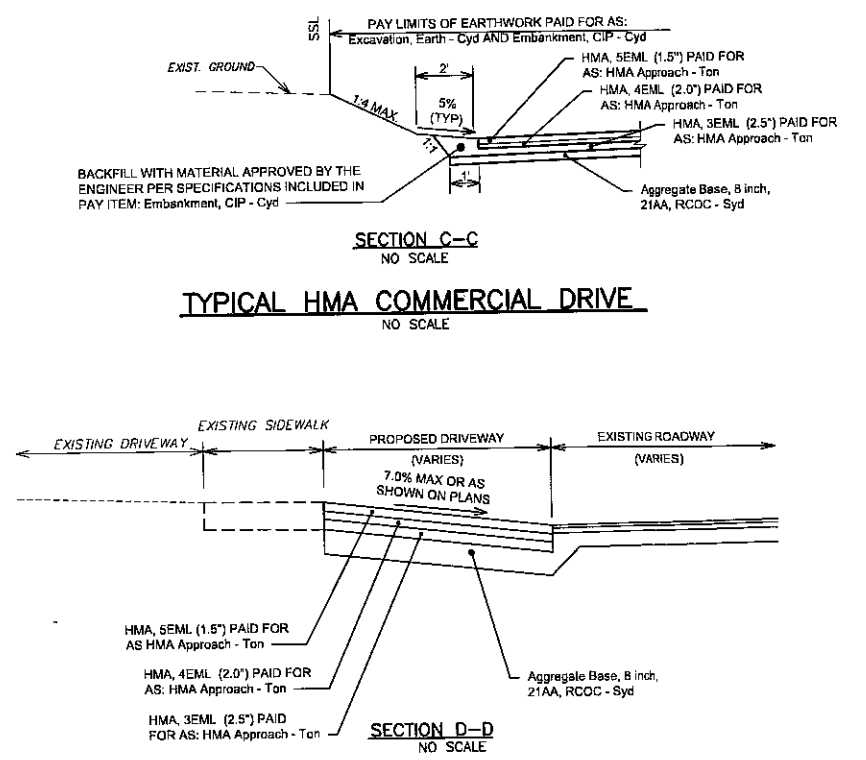
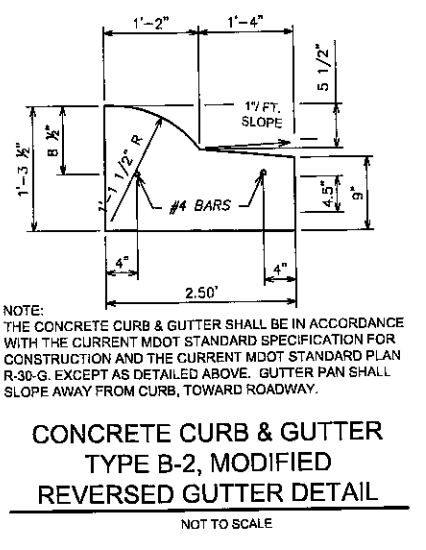
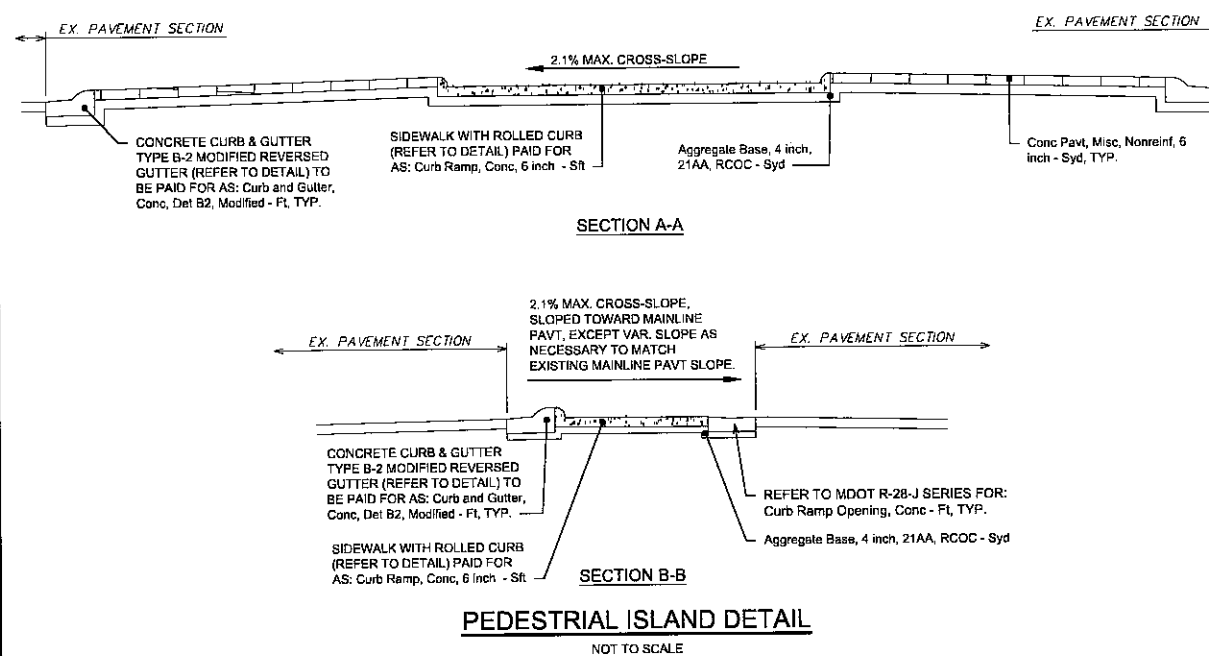
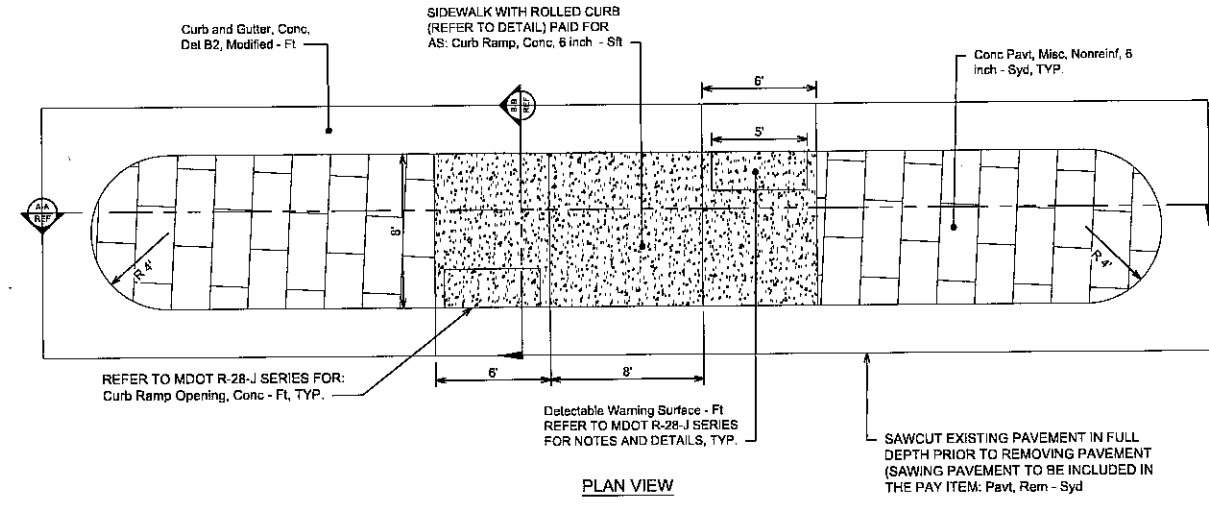
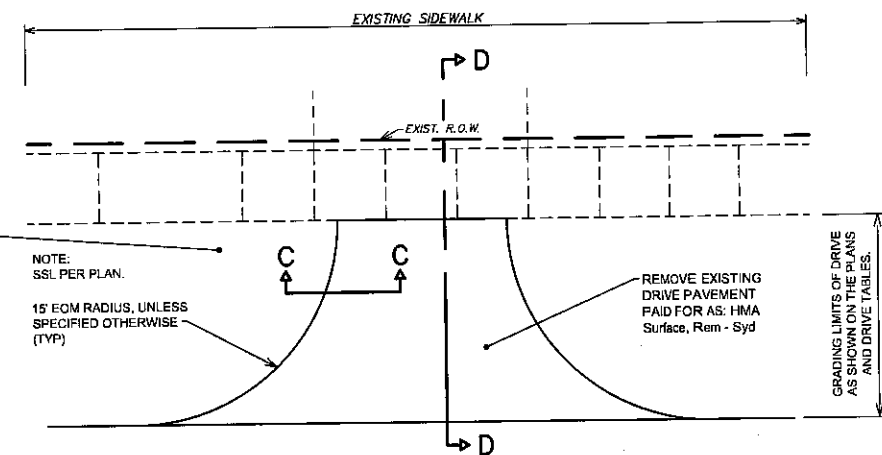


**SIDEWALK NOTES:**  
 1. ADA RAMPS AND LANDINGS SHALL BE CONSTRUCTED IN CONCRETE AND IN ACCORDANCE WITH CURRENT MDOT STANDARD DETAIL R-28 SERIES AND SHALL HAVE A MINIMUM CLEAR OPENING OF 8' WIDE.  
 2. A CLEAN SAW CUT JOINT SHALL BE PROVIDED WHEREVER NEW PAVEMENT MATCHES EXISTING PAVEMENT (INCLUDED IN THE COST OF SIDEWALK PAY ITEMS)  
 3. Turf Establishment, THM Seed, Regular Mulch, Performance, RCOC - Syd



NOTES:  
 1. ROADSIDE RESTORATION TO BE PAID FOR AS: TURF Establishment, THM Seed, Regular Mulch, Performance, RCOC - Syd  
 2. 6" OF TOPSOIL STRIPPING SHALL BE INCLUDED IN THE QUANTITY FOR Excavation, Earth - Cyd

NECESSARY EARTHWORK AND SUBGRADE PREPARATION WITHIN SSL AND DRIVE LIMITS SHALL BE PAID FOR AS: Excavation, Earth - Cyd AND Embankment, CIP - Cyd. THE LIMITS OF WORK SHALL BE DESCRIBED IN THIS DETAIL.



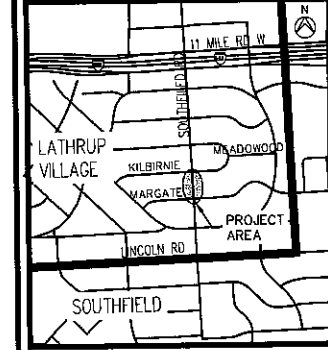
**HRC**  
**HUBBELL, ROTH & CLARK, INC.**  
 CONSULTING ENGINEERS SINCE 1915

555 HULEY DRIVE  
 BLOOMFIELD HILLS, MICH. P.O. BOX 824  
 48303 - 0824

PHONE: (248) 454-6300  
 FAX (1st. Floor): (248) 454-6312  
 FAX (2nd. Floor): (248) 454-6309

WEB SITE: www.hrcenr.com

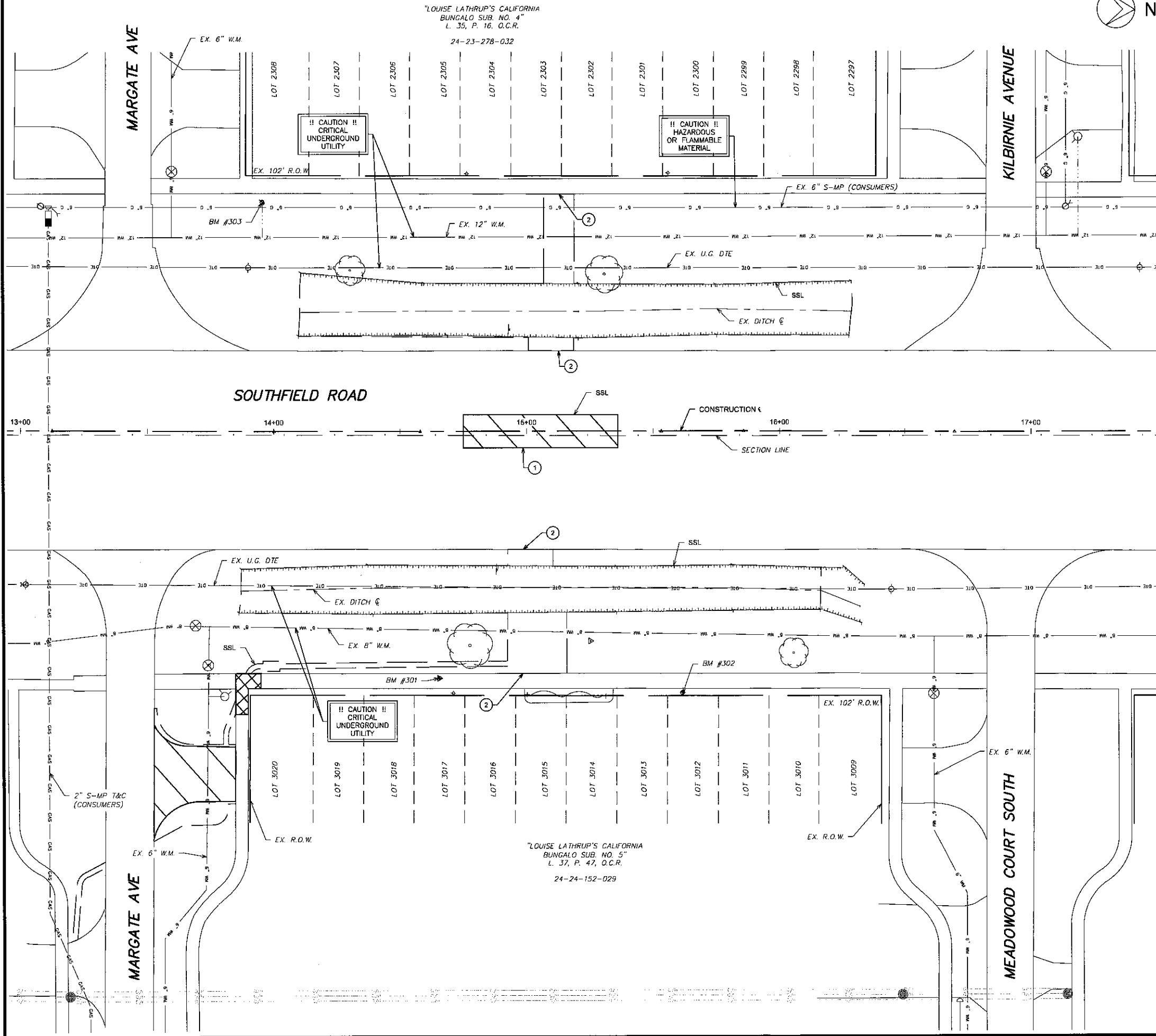
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	JCL
DRAWN	HFA
CHECKED	
APPROVED	



**THE CITY OF LATHRUP VILLAGE**  
**TRAFFIC SIGNAL MODERNIZATION**

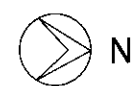
**PROJECT DETAILS**

HRC JOB NO.	SCALE
20220916	NO SCALE
DATE	SHEET NO.
February 2024	2 OF 2



"LOUISE LATHRUP'S CALIFORNIA BUNGALO SUB. NO. 4" L. 35, P. 16, O.C.R. 24-23-278-032

"LOUISE LATHRUP'S CALIFORNIA BUNGALO SUB. NO. 5" L. 37, P. 47, O.C.R. 24-24-152-029



BENCHMARK		
BM. #	DESCRIPTION	ELE. EV.
301	MAG NAIL SET IN SIDEWALK SW OF LIGHT POLE BASE ON EAST SIDE OF SOUTHFIELD ROAD	692.71
302	TOP OF SOUTH SIDE OF CONCRETE LIGHT POLE BASE ON THE EAST SIDE OF SOUTHFIELD ROAD, 100' SOUTH OF KILBIRNIE AVENUE	694.56
303	WEST FLANGE SOLD OF HYDRANT ON THE WEST SIDE OF SOUTHFIELD ROAD AND SOUTH OF KILBIRNIE AVENUE	693.80

REMOVAL QUANTITIES - THIS SHEET		
PAY ITEM	QTY	UNIT
Sidewalk, Rem	13	Syd
Excavation, Earth	256	Cyd
HMA Surface, Rem	177	Syd

- NOTES:
- ① VERTICAL SAWCUT FULL DEPTH THROUGH EXISTING PAVEMENT INCLUDED IN THE COST OF Pavt. Rem - Syd
  - ② A CLEAN SAWCUT JOINT SHALL BE PROVIDED WHERE PROPOSED SIDEWALK MATCHES EXISTING PAVEMENT, INCLUDED IN THE COST OF SIDEWALK PAY ITEMS

DRIVEWAY CONSTRUCTION QUANTITIES - THIS SHEET (FOR INFORMATION ONLY)		
DRIVE/ APPROACH	GRADING LIMITS*	HMA SURFACE, REM
STATION		SYD
13+53	32' RT	89

\*GRADING LIMITS MEASURED FROM EDGE OF MARGATE AVE.

- LEGEND
- HMA SURFACE REMOVAL PAID FOR AS: HMA Surface, Rem
  - Sidewalk, Rem
  - SLOPE STAKE LINE (SSL)

NOTE: UTILITY INFORMATION ON THIS DRAWING MAY BE FROM INFORMATION DISCLOSED TO THIS FIRM BY THE VARIOUS UTILITY COMPANIES, CITY/COUNTY AGENCIES, AND OTHER VARIOUS SOURCES. UNDERGROUND UTILITIES WHICH ARE ON PRIVATE PROPERTY ARE USUALLY NOT DELINEATED UPON A UTILITY COMPANY'S PUBLISHED PLANS. THEIR LOCATION, IF SHOWN UPON THIS SURVEY, ARE APPROXIMATED FROM FOUND POINT MARKERS, ETC. AS LOCATED BY THIS FIRM FROM SOURCES WHICH ARE UNKNOWN. NO QUANTITIES ARE GIVEN AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL MISS DIG 3 WORKING DAYS PRIOR TO CONSTRUCTION.

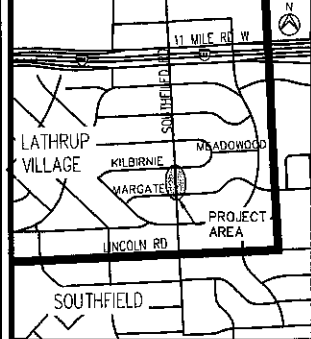


THREE FULL WORKING DAYS BEFORE YOU DIG, CALL THE MISS DIG SYSTEM AT 800-482-7171 OR 811.



**HRC**  
**HUBBELL, ROTH & CLARK, INC**  
 CONSULTING ENGINEERS SINCE 1915  
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 48303-0824  
 PHONE: (248) 454-8300  
 FAX (1st. Floor): (248) 454-6312  
 FAX (2nd. Floor): (248) 454-6859  
 WEB SITE: www.hrcengr.com

DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	JCL
DRAWN	HFA
CHECKED	
APPROVED	



THE CITY OF LATHRUP VILLAGE  
**TRAFFIC SIGNAL MODERNIZATION**

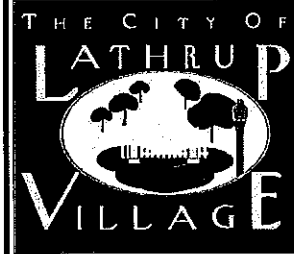
REMOVAL PLAN SOUTHFIELD ROAD	
HRC JOB NO. 20220916	SCALE 1"=20'
DATE February 2024	SHEET NO. 3 OF 3



1. CALL MISS DIG (800-482-7171 OR 811) 3 WORKING DAYS PRIOR TO ANY EXCAVATION FOR THE LOCATIONS OF UNDERGROUND UTILITIES.
2. WHERE ABANDONING OF U.G. CABLES IS CALLED FOR ON PLANS OR DIAGRAMS, CONTRACTOR SHALL CUT & REMOVE CABLES WITHIN MANHOLES & HANDHOLES.
3. WHERE INSTALLATION OF NEW MANHOLES OVER EXISTING CONDUITS (TO ACCOMMODATE NEW & EXISTING CONDUITS) IS CALLED FOR ON PLANS, CONTRACTOR SHALL CAREFULLY & SO AS NOT TO DAMAGE EXISTING CABLES. REMOVE THE EXISTING CONDUITS & ENCASMENT WITHIN MANHOLES. EXISTING CABLES SHALL BE EXTENDED & PROPERLY TRAINED, RACKED & SUPPORTED.
4. ALL EXISTING STREET LIGHTING, TRAFFIC SIGNAL, PRIMARY, TRANSMISSION ETC. CIRCUITS SHALL ALWAYS BE MAINTAINED IN AN OPERATIONAL CONDITION (EXCEPT WHERE OTHERWISE NOTED).
5. ALL CONDUITS NOT TERMINATING IN STRUCTURES SUCH AS MANHOLES, HANDHOLES OR FOUNDATIONS SHALL EXTEND 2 FEET BEYOND PAVEMENT LIMIT (EXCEPT AS OTHERWISE INDICATED). ALL UNOCCUPIED CONDUITS SHALL BE PLUGGED/CAPPED (TO KEEP MOISTURE AND DEBRIS OUT). FIT THE ENDS OF ALL PVC CONDUIT TERMINATIONS WITH BUSHINGS OR END BELL FITTINGS (TO PREVENT DAMAGE TO THE CABLES AND CONDUCTORS).
6. ALL TREE TRIMMING REQUIRED TO CLEAR NEW OR SALVAGED STREET LIGHTING & TRAFFIC SIGNAL STD.'S, O.H. STREET LIGHTING & TRAFFIC SIGNAL UNITS SHALL BE INCLUDED IN OTHER CONTRACT PAY ITEMS AND NOT PAID FOR SEPERATELY.
7. EXISTING O.H. & T.S. FACILITIES ARE NOT NECESSARILY SHOWN ON PLANS.
8. ALL OVERHEAD WIRES & UNDERGROUND CABLES SHALL CONSIST OF COPPER CONDUCTORS AS PER SPECIFICATIONS.
9. ALL NEW ANCHOR GUYS SHALL BE INSTALLED ON A 1:1 RATIO OR AS NEARLY AS POSSIBLE (EXCEPT WHERE OTHERWISE NOTED). (STRUT GUYS ARE ACCEPTED)
10. ALL CABLES SHALL BE TAGGED IN ALL MANHOLES AND HANDHOLES.
11. INSTALL WOOD POLES SO AS NOT TO INTERFERE WITH TRAFFIC OR FUTURE CONSTRUCTION STAGES.
12. ALL TRAFFIC SIGNS SUCH AS "NO PARKING", "NO STANDING", "STREET NAME", ETC. SHALL BE TRANSFERRED FROM OLD STD. OR POLE TO NEW STD. OR POLE AT THE SAME LOCATION OR IN CLOSE PROXIMITY BY CONTRACTOR.
13. ALL TRAFFIC SIGNALS SHALL BE MOUNTED WITH NEW STANDARD TRAFFIC SIGNAL BRACKETS & FITTINGS.
14. ALL TRAFFIC SIGNAL ITEMS, AS CALLED FOR ON PLANS, SHALL HAVE INCLUDED IN THE TRAFFIC SIGNAL ITEM ALL CABLES FROM THE CONTROLLER TO THE TRAFFIC SIGNALS, FOUNDATIONS & PIPE EXTENSIONS NEEDED TO MAINTAIN 17'-0" UNDER CLEARANCE AS INDICATED (18'-0" FOR JOINT USE WOOD POLES).
15. WHEN ENTERING PROPOSED CONDUIT INTO EXISTING MANHOLES & HANDHOLES EXERCISE CAUTION NOT TO DISTURB EXISTING CABLES. PROPOSED CONDUIT TAPS INTO EXISTING HANDHOLES ARE NOT PAID FOR SEPARATELY AND INCLUDED IN OTHER ITEMS OF WORK.
16. BACKFILL ALL CONDUIT TRENCHES WITHIN THE LIMITS OF THE ROADBED AND SIDEWALK WITH CLASS II GRANULAR MATERIAL IN ACCORDANCE WITH SECTION 204. PLACE AND COMPACT THE GRANULAR MATERIAL IN ACCORDANCE WITH THE CONTROLLED DENSITY METHOD IN SUBSECTION 205.03.H.4.a.
17. ALL SALVAGED TRAFFIC SIGNALS SHALL BE TRAFFIC SIGNALS PREVIOUSLY INSTALLED NEW ON THIS CONTRACT. (EXCEPT AS OTHERWISE INDICATED)
18. ALL O.H. TRAFFIC SIGNAL SPAN WIRE SHALL USE 5/16" EXTRA HIGH STRENGTH STRAND WIRE. TRAFFIC SIGNAL BOTTOM TETHER WIRE SHALL USE 1/4" COMMON GRADE STRAND WIRE.
19. SEAL-END OF CABLE WHERE COILING OF CABLE IS CALLED FOR ON PLANS. (CONTRACTOR SHALL RECEIVE PAYMENT FOR COILED-UP CABLES)
20. THE CONTRACTOR SHALL DELIVER TO ROAD COMMISSION FOR OAKLAND COUNTY (RCOC), THE T.S. CONTROLLER FOR TIMING. THE CONTRACTOR WILL PICKUP THE CONTROLLER AND CABINET FROM RCOC WHEN READY FOR INSTALLATION.
21. PROPOSED T.S. SHALL BE PUT INTO OPERATION AT THE TIME OF REMOVAL OF EXISTING T.S. FACILITIES. CONTRACTOR SHALL NOTIFY RCOC. IF UNABLE TO MAINTAIN T.S. IN AN OPERABLE CONDITION AT ALL TIMES.
22. A MINIMUM CLEARANCE OF 3'-6" HORIZONTAL & 1'-0" VERTICAL MUST BE MAINTAINED BETWEEN PROPOSED FACILITEIS & EXISITING U.G. WATER FACILITIES OR AS SPECIFIED ON PLANS.

23. ALL PROPOSED EQUIPMENT SHALL MAINTAIN 10 FEET OF CLEARANCE FROM PRIMARY, NEUTRAL, OR ABOVE POWER CABLES.
24. THE ROAD COMMISSION FOR OAKLAND COUNTY (RCOC) WILL INSPECT THE INSTALLATION OF ALL TRAFFIC SIGNAL EQUIPMENT. THE CONTRACTOR MUST NOTIFY RCOC WHEN WORK IS GOING TO BE PERFORMED. THE CONTRACTOR MUST PROVIDE THREE (3) WORKING DAYS' NOTICE (EXCLUDING SATURDAY, SUNDAY, AND HOLIDAYS) TO RCOC, SIGNAL SYSTEMS DIVISION, TELEPHONE (248) 858-7250, FOR THE INSPECTION TO BE PERFORMED.
25. ALL MATERIAL REMOVED ON THIS CONTRACT SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR. CONTRACTOR SHALL NOTIFY RCOC PRIOR TO REMOVAL OF THE EQUIPMENT AND ALL MATERIAL IDENTIFIED BY THE RCOC SHALL BE STORED ON SITE AS DIRECTED BY THE ENGINEER FOR PICK UP BY THE RCOC.
26. TS\_\_\_ REM - THE UNIT PRICE FOR RELEVANT REMOVAL PAY ITEMS INCLUDE THE COST OF REMOVING AND DISPOSING OF TRAFFIC SIGNALS, PEDESTRIAN SIGNALS, CABLES, AND OTHER MATERIALS.
27. FOR TYPICAL PEDESTRIAN T.S. WIRING ON POLES; (RCOC STEEL POLES, WOOD POLES, OR STEEL POLES OWNED BY OTHERS) SEE STANDARD DETAIL SHEET OC-4A, ALL STEEL POLES SHALL BE ASSUMED TO BE OWNED BY RCOC UNLESS OTHERWISE NOTED ON PLANS.
28. ALL TRAFFIC SIGNAL SPANS WITH SOLID STATE CONTROLLERS SHALL BE GROUNDED. THE GROUNDING OF BOTH SHALL HAVE A RESISTANCE NO GREATER THAN 10 OHM WHEN INSTALLED.
29. CONCRETE PAVEMENT REPAIR SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2020 M.D.O.T STANDARD SPECIFICATIONS FOR CONSTRUCTION AND RCOC A.S.R. SPECIFICATIONS.
30. ALL CONDUIT BENDS SHALL HAVE MINIMUM RADI: IN ACCORANCE WITH THE CURRENT N.E.C.
31. ALL TRAFFIC SIGNAL FITTINGS (SCREWS, BOLTS, PINNACLES, ETC.) SHALL BE GREASED WITH A NON-OXIDE TYPE GREASE.
32. INSTALL STEEL POLE AS HANDHOLE, AS DESCRIBED ON STANDARD DETAIL SHEET OC-2, IN ALL EXISTING STEEL POLES AS DIRECTED BY THE ENGINEER. (INCLUDED IN THE INTALLATION OF T.S. ON THIS CONTRACT)
33. ALL GROUND WIRE SHALL BE #6 STRANDED COPPER.
34. WHEN SPLICING TRAFFIC SIGNAL CABLES (ONLY IF APPROVED BY ENGINEER), USE UN-INSULATED SOLID BARREL COMPRESSION TYPE CONNECTORS. TAPE OVER EACH INDIVIDUAL BARREL AND ANY BARE WIRE WITH PREMIUM GRADE PVC, 7 MIL, SUNLIGHT & COLD RESISTANT TAPE. THEN TAPE OVERALL SPLICE WITH LINERLESS RUBBER SPLICING TAPE OR EQUIVALENT. THEN TAPE OVER THAT WITH A LAYER OF PREMIUM GRADE PVC, 7 MIL, SUNLIGHT & COLD RESISTANT TAPE OVER LAPPING CABLE JACKET BY ONE INCH. ALL TAPE SHOULD COVER SPLICES FROM CABLE JACKET TO CABLE JACKET AND BE 1/2 LAPPED. THE FINAL LAYER OF TAPE SHOULD BE WRAPPED IN AN UPWARD MOTION SO THAT CUT OFF END DOES NOT ALLOW MOISTURE BACK INTO SPLICE.
35. NO CHANGES FROM PLANS IN LOCATION OF SUPPORTING STRUCTURES, SIGNAL HEAD PLACEMENT OR TRAFFIC SIGNAL EQUIPMENT WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ROAD COMMISSION FOR OAKLAND COUNTY. CONTACT ROAD COMMISSION FOR OAKLAND COUNTY-TRAFFIC OPERATIONS CENTER AT (248) 858-7250.
36. STEMMING OF SIGNAL HEADS TO MAINTAIN EQUAL UNDER CLEARANCE FOR EACH SPAN WIRE MOUNTED SIGNAL HEAD (AT ALL INTERSECTIONS OF THIS CONTRACT) IS INCLUDED IN THE INSTALLATION OF T.S. IN THIS CONTRACT.
37. ALL DIRECTIONAL BORED, OPEN CUT, OR DIRECT BURIAL CONDUIT CALLED FOR ON PLANS IS THE PREFERRED METHOD OF INSTALLATION. IF THE METHOD OF CONDUIT INSTALLATION IS IMPOSSIBLE TO CONSTRUCT OR IF THE CONTRACTOR PREFERES TO USE ANY OTHER METHOD, THE CHANGE OF METHOD MAY BE MADE UPON APPROVAL BY THE PROJECT ENGINEER.
38. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING OR ANTICIPATING THE NEED OR DESIRE TO INSTALL CONDUIT BY ANY OTHER METHOD AND TO INCLUDE THE COST IN THE CONTRACT BID.
39. NO EXTRA PAYMENT WILL BE ALLOWED IF THE CONTRATOR CHOOSES TO CHANGE THE METHOD OF CONDUIT INSTALLATION.
40. THE CONTRACTOR SHALL MAKE THE PERMANENT CONNECTION TO LOCAL UTILITY CO. 120V SERVICE USING APPROVED PARALLEL GROOVED CONNECTORS. (INCLUDED IN THE INSTALLATION OF T.S. ON THIS CONTRACT)
41. ALL OVERHEAD CAMERA CLAMP-ON BRACKET ARMS SHALL BE INSTALLED ON WOOD OR STEEL POLES PERPENDICULAR TO THE CURB UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
42. CONTACT LOCAL UTILITY COMPANY PRIOR TO INSTALLATION OF TRAFFIC SIGNALS. (INCLUDED IN THE INSTALLATION OF TRAFFIC SIGNALS ON THIS CONTRACT)

43. ALL HEMISPHERICAL CAMERA CABLES SHALL BE CAT5e (SHIELDED, 24 AWG SOLID CORE, GEL FILLED, OUTDOOR RATED). CABLE SHALL HAVE A DRAIN WIRE. MAXIMUM LENGTH OF CABLE WITHOUT A POE (POWER OVER ETHERNET) REPEATER IS 250 FT. GROUND THE DRAIN WIRE TO THE EPM (ETHERNET PROTECTION MODULE) GROUND LUG USING 1-1/8" #6 AWG COPPER FROM LUG ON EPM TO CABINET GROUND BUS.
44. ALL WEATHERHEADS AND LB'S SHALL BE NEW AND METAL UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
45. THE "PLOWING IN CONDUIT" METHOD SHALL NOT BE USED ON THIS CONTRACT UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
46. WHEN CONTRACTOR IS INSTALLING A NEW STEEL STRAIN POLE FOR INSTALLATION OF A NEW SPAN WIRE BY LOCAL UTILITY COMPANY, A SPAN WIRE ATTACHMENT CLAMP AND BULL RING SHALL BE PROVIDED BY THE CONTRACTOR. (INCLUDED IN THE INSTALLATION OF T.S. ON THIS CONTRACT)
47. ALL PEDESTRIAN TRAFFIC SIGNALS NOT IN USE ON THIS PROJECT SHALL BE BAGGED AS DIRECTED BY THE ENGINEER.
48. ALL TRAFFIC SIGNALS, CASE SIGNS, AND SPAN MOUNTED STATIC SIGNS THAT ARE NOT BEING USED WILL BE BAGGED, HOODED, TURNED, OR TAKEN DOWN TO CLEARLY INDICATE THAT THEY ARE NOT IN OPERATION. BAGGING MATERIAL WILL BE OF SUCH CONSTRUCTION AS TO NOT ALLOW ANYTHING TO BE VISIBLE THROUGH THE MATERIAL. BAGGING MATERIAL WILL BE OF SUCH CONSTRUCTION AS TO HOLD UP TO WIND AND OTHER ADVERSE WEATHER CONDITIONS. ALL TRAFFIC SIGNALS AND CASE SIGNS WILL BE DISABLED SO THAT NO LIGHTS ARE OPERATIONAL.
49. ALL MAST ARM MOUNTED TRAFFIC SIGNALS AND CASE SIGNS SHALL BE MOUNTED SUCH THAT A 17'-0" UNDER CLEARANCE IS MAINTAINED AT ALL TIMES.
50. THIS WORK CONSISTS OF THE CONTRACTOR'S RESPONSIBILITY TO TEST THE STRAIN POLE AND MAST ARM ANCHOR BOLTS. PROVIDE MATERIALS AND TESTING BY AN RCOC APPROVED LAB FOR ALL ANCHOR BOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH SUBSECTIONS 105.10, 820, AND 908.14 OF THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATION FOR CONSTRUCTION AND ALL CONTRACT DOCUMENTS. ANCHOR BOLTS SHALL BE MARKED BY COLOR CODED ENDS AND NON-REMOVABLE CASTING (HEAT) STAMP TO PROVIDE TRACEABILITY DURING TESTING AND INSTALLATION. INCLUDE PICTURES (OR OTHER PROPOSED METHOD) WITH THE TESTING RESULTS OF THE MATERIALS AT THE CONTRACTOR'S YARD AND LAB FOR TRACEABILITY IN THE FIELD. PROVIDE TEST DATA CERTIFICATION TO THE ENGINEER ACCORDING TO THE MDOT MATERIALS SOURCE GUIDE. ANCHOR BOLT TESTING WILL NOT PAID FOR SEPARATELY AND IS INCLUDED IN OTHER ITEMS OF WORK. ANCHOR BOLTS SHALL NOT BE HEATED NOR HAMMERED AFTER ACCEPTANCE FOR USE ON THIS PROJECT. MDOT DOES NOT TEST FOR LOCAL AGENCY PROJECTS.
51. MAST ARM INSPECTIONS FOR QUALITY ASSURANCE MUST BE COORDINATED WITH ROAD COMMISSION FOR OAKLAND COUNTY.
52. CUT OVER OF INTERSECTIONS, MODIFICATIONS OF ANY SIGNAL CONFIGURATION, AND TRAFFIC SWITCHES SHALL TAKE PLACE ON MONDAY - THURSDAY FROM 9 A.M. - 3 P.M. ONLY. CUT OVERS ARE NOT PERMITTED ON HOLIDAYS.
53. FOR MATERIAL INSPECTION REQUESTS (HMA, CONCRETE, AGGREGATE, ETC) CONTRACTOR SHALL COMPLETE THE ONLINE INSPECTION REQUEST AT: <http://www.rcocweb.org/503/Contractor-Inspection-Request> REFER TO PROPOSAL FOR ADDITIONAL INFORMATION.
54. WHERE REQUIRED BY THE LOCAL UTILITY COMPANY OR APPLICABLE CODE, INSTALL OR HAVE INSTALLED ALL NECESSARY INSULATORS OR ELECTRICAL PROTECTIVE DEVICES AND/OR COORDINATE WITH THE LOCAL UTILITY COMPANY TO HAVE REQUIRED PROTECTIVE DEVICES INSTALLED ON THE UTILITY COMPANY'S FACILITIES. ASSUME ALL LOCATIONS MAY REQUIRE WORK WITHIN 10 FEET OF PRIMARY AND/OR NEUTRAL CONDUCTORS. THE COST OF ANY PROTECTIVE DEVICES OR INSULATORS SHALL BE INCLUDED IN THE COST OF PERFORMING THIS WORK AND WILL NOT PAID FOR SEPARATELY.
55. SIGN INSTALLATION DATE STICKER - RCOC WILL PROVIDE INSTALLATION DATE STICKERS TO THE CONTRACTOR AT THE PRECONSTRUCTION MEETING. AT THE TIME OF INSTALLATION, PLACE AN INSTALLATION DATE STICKER ON THE BACK LOWER PORTION OF THE CASE AND NON-ILLUMINATED STREET NAME SIGNS.
56. RCOC MARCH 2014 TRAFFIC SIGNAL DETAIL BOOK IS AVAILABLE AT RCOC WEBSITE: <http://www.rcocweb.org/DocumentCenter/View/190/2014-Traffic-Signal-Detail-Book-PDF> THIS INFORMATION IS ALSO AVAILBLE UPON REQUEST DIRECTLY FROM RCOC TRAFFIC SAFETY DEPARTMENT BY CONTACTING AHMAD JAWAD, SIGNAL SYSTEMS ENGINEER AT (248) 858-7250. IN CASE OF CONFLICT, UTILIZE RCOC SPECIAL PROVISIONS AND RCOC STANDARD CONSTRUCTION SIGNAL DETAIL BOOK. THEN USE CONTRACT DOCUMENTS AND 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION WHICHEVER ARE MOST RESTRICTIVE AS DETERMINED BY THE ENGINEER.



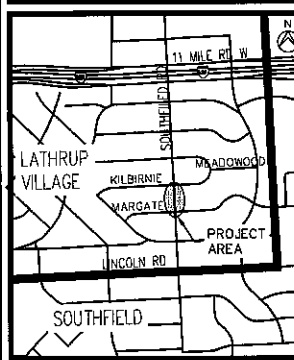
**HRC**  
**HUBBELL, ROTH & CLARK, INC**  
 CONSULTING ENGINEERS SINCE 1915

10000 WOODBURN SQUARE  
 ANN ARBOR, MICH. 48106-4000

PHONE: (248) 858-8800  
 FAX (1st. Floor): (248) 454-6312  
 FAX (2nd. Floor): (248) 454-6358

WEB SITE: [www.hrcengr.com](http://www.hrcengr.com)

DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	HFA
DRAWN	COB
CHECKED	LFM
APPROVED	















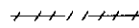












**THE CITY OF LATHRUP VILLAGE**  
**TRAFFIC SIGNAL**  
**MODERNIZATION**

SIGNAL NOTES  
SOUTHFIELD RD





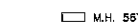














HRC JOB NO. 20220916	SCALE NTS
DATE February 2023	SHEET NO. 5 OF

# LEGEND SHEET











## TRAFFIC SIGNAL

-  INSTALL 12" VEHICULAR TRAFFIC SIGNAL (1-WAY SHOWN)
-  INSTALL VEHICULAR TRAFFIC SIGNAL WITH SALVAGED HEADS (2-WAY SHOWN)
-  EXISTING VEHICULAR TRAFFIC SIGNAL (1-WAY SHOWN)
-  REMOVE VEHICULAR TRAFFIC SIGNAL (1-WAY SHOWN)
-  INSTALL PEDESTRIAN (COUNTDOWN TYPE) TRAFFIC SIGNAL (2-WAY SHOWN)
-  INSTALL PEDESTRIAN (COUNTDOWN TYPE) TRAFFIC SIGNAL WITH SALVAGED HEAD (2-WAY SHOWN)
-  REMOVE PEDESTRIAN (WALK-DON'T WALK) TRAFFIC SIGNAL (1-WAY SHOWN)
-  EXISTING PEDESTRIAN (WALK-DON'T WALK) TRAFFIC SIGNAL (1-WAY SHOWN)
-  INSTALL JUNCTION BOX
-  INSTALL SALVAGED JUNCTION BOX
-  REMOVE JUNCTION BOX
-  EXISTING JUNCTION BOX
-  INSTALL OVERHEAD PLASTIC JACKETED CABLE
-  EXISTING OVERHEAD PLASTIC JACKETED CABLE
-  REMOVE OVERHEAD PLASTIC JACKETED CABLE
-  INSTALL TRAFFIC SIGNAL CONTROLLER (NEW OR SALVAGED AS INDICATED). (EXCEPT AS OTHERWISE INDICATED)
-  INSTALL MAST ARM POLE & MAST ARM (SIZES AS INDICATED) ON NEW FOUNDATION (EXCEPT AS OTHERWISE INDICATED).
-  INSTALL TRAFFIC SIGNAL PEDESTAL ON NEW FOUNDATION (EXCEPT AS OTHERWISE INDICATED).
-  INSTALL ANCHOR BASE STEEL STRAIN POLE (SIZE AS INDICATED) ON NEW FOUNDATION. (EXCEPT AS OTHERWISE INDICATED).
-  EXISTING TRAFFIC SIGNAL CONTROLLER
-  EXISTING MAST ARM STANDARD
-  EXISTING PEDESTAL
-  EXISTING STEEL STRAIN POLE
-  BAG SIGNALS AS DIRECTED BY ENGINEER. (INCLUDED IN INSTALLATION OF T.S. ON THIS CONTRACT).
-  REMOVE BAG AS DIRECTED BY ENGINEER. (INCLUDED IN INSTALLATION OF T.S. ON THIS CONTRACT).
- POCH POLE CONTACT HEIGHT OF T.S. SPAN WIRE
- L.C.H. LOW CONTACT HEIGHT OF SPAN WIRE TO SPAN WIRE.
- INSTALL WARNING SIGN (TYPE AS INDICATED ON PLANS).
- INSTALL 2-WAY CASE SIGN
- REMOVE 2-WAY CASE SIGN
- EXISTING 2-WAY CASE SIGN
- INSTALL 4-WAY CASE SIGN
- REMOVE 4-WAY CASE SIGN
- EXISTING 4-WAY CASE SIGN
















## UNDERGROUND

-  M.H. 1234
-  EX. H.H.
-  EXISTING DUCT RUN
-  REMOVE EXISTING DUCT RUN
-  BUILD DIRECT BURIAL CONDUIT (D.B.) OR ENCASED CONDUIT (E.C.) (2-3" D.B. SHOWN)
-  GALVANIZED IRON CONDUIT (2-3" SHOWN)
-  M.H. 5678
-  M.H. 9012
-  M.H. 3456
-  M.H. 7890
-  BUILD ROUND HANDHOLE
-  BUILD SQUARE HANDHOLE
-  BUILD TYPE "D" HANDHOLE
-  EXISTING DIRECT BURIAL OR PARKWAY CABLE
-  ABANDON DIRECT BURIAL OR PARKWAY CABLE
-  INSTALL DIRECT BURIAL CABLE (NO. & SIZE AS INDICATED)
-  EXISTING U.G.-FED ST. LTG. UNIT
-  REMOVE U.G.-FED ST. LTG. UNIT & FDN. (EXCEPT AS OTHERWISE INDICATED)
-  INSTALL COMB. T.S. & ST. LTG. STD. (SIZE AS SPECIFIED) ON NEW FDN., 6FT. CLAMP ON BRACKET ARM WITH 3'-0" RISE, INSTALL 400W. TYPE LUMINAIRE.









## TRAFFIC SIGNAL

-  INSTALL OVERHEAD DETECTION CAMERA MOUNTED AS INDICATED ON THE PLANS.
-  INSTALL SALVAGED OVERHEAD DETECTION CAMERA MOUNTED AS INDICATED ON THE PLANS.
-  EXISTING OVERHEAD DETECTION CAMERA
-  REMOVE OVERHEAD DETECTION CAMERA
-  INSTALL LOOP DETECTION AREA IN PAVT
-  WIRELESS VEHICLE DETECTION AREA
-  INSTALL LOOP DETECTOR & CABINET (EXCEPT AS OTHERWISE INDICATED).
-  EXISTING LOOP DETECTOR & CABINET
-  INSTALL OPTICAL DETECTOR AS SHOWN ON PLANS
-  INSTALL WIRELESS VEHICLE RADIO RECEIVER AS INDICATED

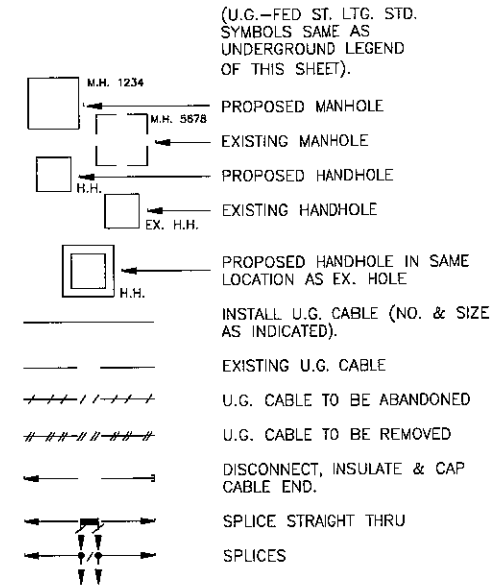
## OVERHEAD

-  EXISTING OR REMOVE WOOD POLE AS INDICATED
-  REPLACE WOOD POLE (HEIGHT & CLASS AS INDICATED)
-  INSTALL WOOD POLE (HEIGHT & CLASS AS INDICATED) (USE SALVAGED POLE WHERE INDICATED)
-  EXISTING OVERHEAD ST. LTG. UNIT
-  REMOVE OVERHEAD ST. LTG. UNIT
-  INSTALL OVERHEAD ST. LTG. UNIT
-  EXISTING OVERHEAD LINE
-  REMOVE OVERHEAD LINE
-  INSTALL OVERHEAD LINE
-  INSTALL & LATER REMOVE OVERHEAD LINE
-  INSTALL GUY & ANCHOR (1/2" GUY SHOWN)
-  REMOVE GUY & ANCHOR ROD
-  INSTALL POLE GUY (1/2" GUY SHOWN)
-  INSTALL ARM GUY (3/8" GUY SHOWN)
-  REMOVE GUY (TYPE AS INDICATED)
- IN. MATERIAL TO BE INSTALLED
- RM. MATERIAL TO BE REMOVED
- MSS MAKE WOOD POLE SELF-SUPPORTING IN CONCRETE
- C.P. CABLE POLE

## GENERAL

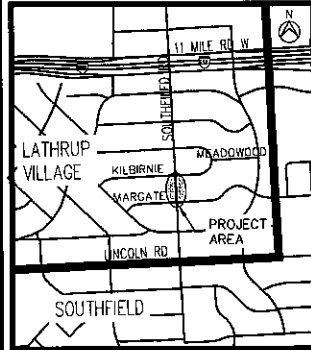
-  PROPERTY LINE (ROW)
-  PAVEMENT JOINTLINE & CURB FACE
-  PROPOSED PAVEMENT
-  SEWER LINE, MANHOLE & CATCH BASIN
-  DET. ED. CO. U.G. LINE & MANHOLE
-  TELEPHONE U.G. LINE & MANHOLE
-  WATERMAIN & GATEWELL (OTHER UTILITIES SIMILAR)
-  GAS STRUCTURE AND U.G. LINE

## DIAGRAMS



**HRC**  
**HUBBELL, ROTH & CLARK, INC**  
 CONSULTING ENGINEERS SINCE 1915  
 555 HULET DRIVE  
 BLOOMFIELD HILLS, MICH. P.O. BOX 824  
 48303-0824  
 PHONE: (248) 454-6300  
 FAX (Int. Floor): (248) 454-6312  
 FAX (2nd Floor): (248) 454-6339  
 WEB SITE: www.hrcengr.com

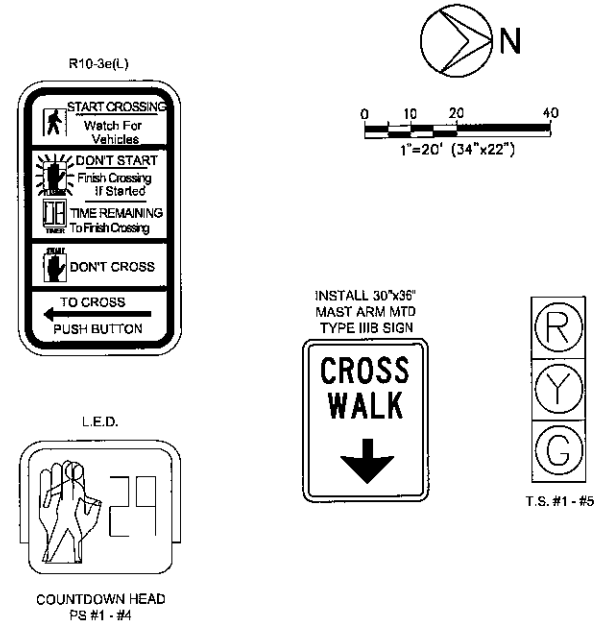
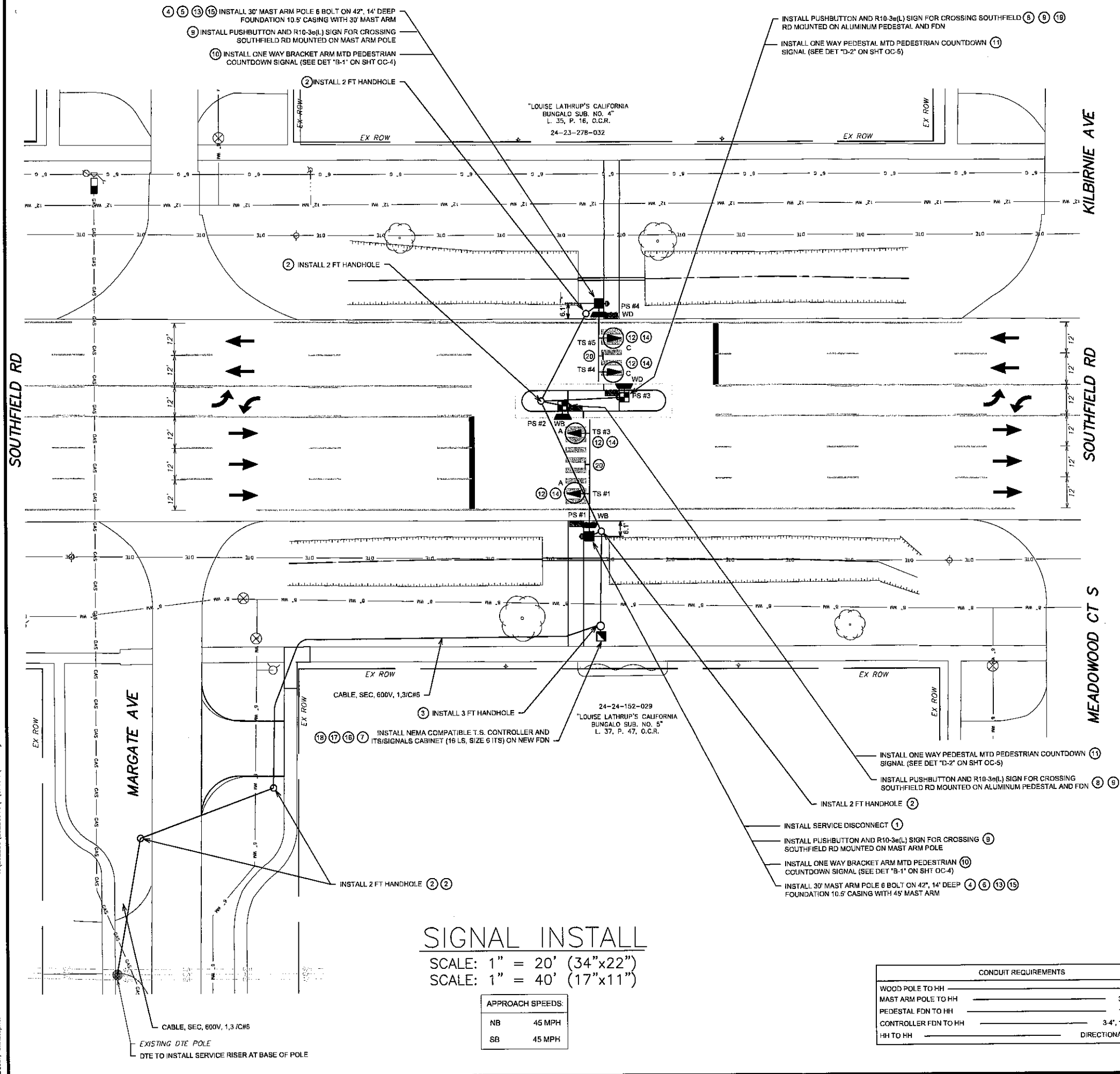
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	HFA
DRAWN	COB
CHECKED	LFM
APPROVED	



**THE CITY OF LATHRUP VILLAGE**  
**TRAFFIC SIGNAL MODERNIZATION**

SIGNAL LEGEND  
 SOUTHFIELD RD

HRC JOB NO. 20220916	SCALE NTS
DATE February 2023	SHEET NO. 6 OF 6



**CONSTRUCTION QUANTITIES - THIS SHEET**

PAY ITEM	QTY	UNIT
1 Serv Disconnect	2	Ea
2 Hh, Round, 2 foot Dia, RCOC	5	Ea
3 Hh, Round, 3 foot Dia, RCOC	1	Ea
4 Mast Arm Pole, Cat III	2	Ea
5 Mast Arm, 30 foot, Cat III	1	Ea
6 Mast Arm, 45 foot, Cat III	1	Ea
7 Controller Fdn, Base Mount	1	Ea
8 Pedestal, Fdn	2	Ea
9 Pushbutton and Sign	4	Ea
10 TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	2	Ea
11 TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	2	Ea
12 TS, One Way Mast Arm Mtd (LED)	4	Ea
13 Casing	21	Ft
14 Backplate, TS, RCOC	4	Ea
15 Mast Arm Pole Fdn, 6 Bolt	28	Ft
16 Controller, Digital Type, Delivered, RCOC	1	Ea
17 Cabinet, ITS Type, RCOC	1	Ea
18 Cabinet, ITS Type, Delivered, RCOC	1	Ea
19 Pedestal, Alum, RCOC	2	Ea
20 Mast Arm, Mtd, Sign, Type III, RCOC	2	Ea
Conduit, DB, 1, 1 1/4 inch	60	Ft
Conduit, DB, 1, 3 inch	160	Ft
Conduit, DB, 3, 3 inch	20	Ft
Conduit, DB, 3, 4 inch	20	Ft
Cable, Sec, 600V, 1, 3/C#6	300	Ft
Conduit, Directional Bore, 2, 4 inch, RCOC	275	Ft

**NOTES:**

- CONTACT \_\_\_\_\_ OF DTE ENERGY AT (248) XXX-XXXX FOR ELECTRIC SERVICE CONNECTION.
- MINIMUM SIGNAL HEAD UNDERCLEARANCE IS 18 FEET.
- PRIOR TO SIGNAL TURN ON/CUTOVER, PLEASE CONTACT MR. STEVE WHEELER AT 248-858-7250 EIGHT WEEKS PRIOR IN ORDER TO OBTAIN RCOC BOARD APPROVAL
- NEW SIGNAL SHALL BE IN FLASH FOR A MINIMUM OF 7 CALENDAR DAYS PRIOR TO ACTIVATION.

**ADA ACCESSIBILITY CRITERIA:**

- PUSHBUTTON MUST BE NO MORE THAN 10" FROM EDGE OF SIDEWALK (REACH CONSIDERATION).
- PUSHBUTTON MUST BE IN MIDDLE OF A 4' MINIMUM LONG SECTION OF SIDEWALK (LANDING) WITH A SLOPE OF NO MORE THAN 2%.
- PUSHBUTTON MUST FACE INTERSECTION AND BE PARALLEL TO CROSSWALK DIRECTION OR AS DIRECTED BY ENGINEER.

**811**

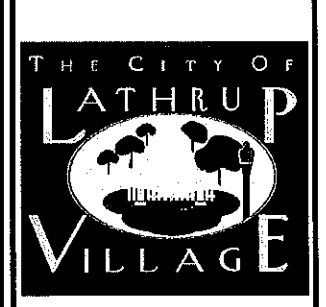
THREE FULL WORKING DAYS BEFORE YOU DIG. CALL THE MISS DIG SYSTEM AT 800-482-7171 OR 811.

**CONDUIT REQUIREMENTS**

FROM	TO	SIZE
WOOD POLE TO HH	HH	1-3"
MAST ARM POLE TO HH	HH	3-3" & 1-1 1/4"
PEDESTAL FDN TO HH	HH	1-3" & 1-1 1/4"
CONTROLLER FDN TO HH	HH	3-4", 1-3" & 1-1 1/4"
HH TO HH		DIRECTIONAL BORE, 2-4"

**APPROACH SPEEDS:**

Direction	Speed
NB	45 MPH
SB	45 MPH



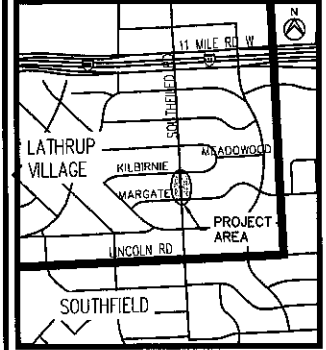
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DATE	ADDITONS AND/OR REVISIONS
DESIGNED	COB
DRAWN	HFA
CHECKED	COB
APPROVED	LSM



**THE CITY OF LATHRUP VILLAGE**  
**TRAFFIC SIGNAL MODERNIZATION**

**SIGNAL INSTALL PLAN**  
**SOUTHFIELD ROAD**

C.O. #1608

HRC JOB NO.	SCALE
20220916	1"=20'

DATE	SHEET NO.
March 2024	7 OF 7