



Special Meeting
6:00 p.m., Tuesday, January 29, 2019
Conference Room
23600 Liberty Street
Farmington, MI 48335

SPECIAL MEETING AGENDA

- 1. Roll Call**
- 2. Approval of Agenda**
- 3. Public Comment**
- 4. Oakland Street Project**
- 5. Other Business**
- 6. Council Comment**
- 7. Adjournment**

Farmington City Council Staff Report	Council Meeting Date: 1-29-19	Item Number 4
Submitted by: City Manager		
Agenda Topic: Proposed Oakland Street Project		
Proposed Motion: Move to approve the proposed Oakland Street project		
Background: The Oakland Street Project consists of road reconstruction, water/sewer replacement, additional 16-18 parking spaces, sidewalk on the south side of the street, removal of AT&T utility poles, street lights and landscaping.		
Materials: Engineering design of proposed Oakland Street Project		

CITY OF FARMINGTON OAKLAND COUNTY, MICHIGAN OAKLAND STREET RECONSTRUCTION

CITY OF FARMINGTON CITY COUNCIL

STEVEN G. SCHNEEMANN
• MAYOR •

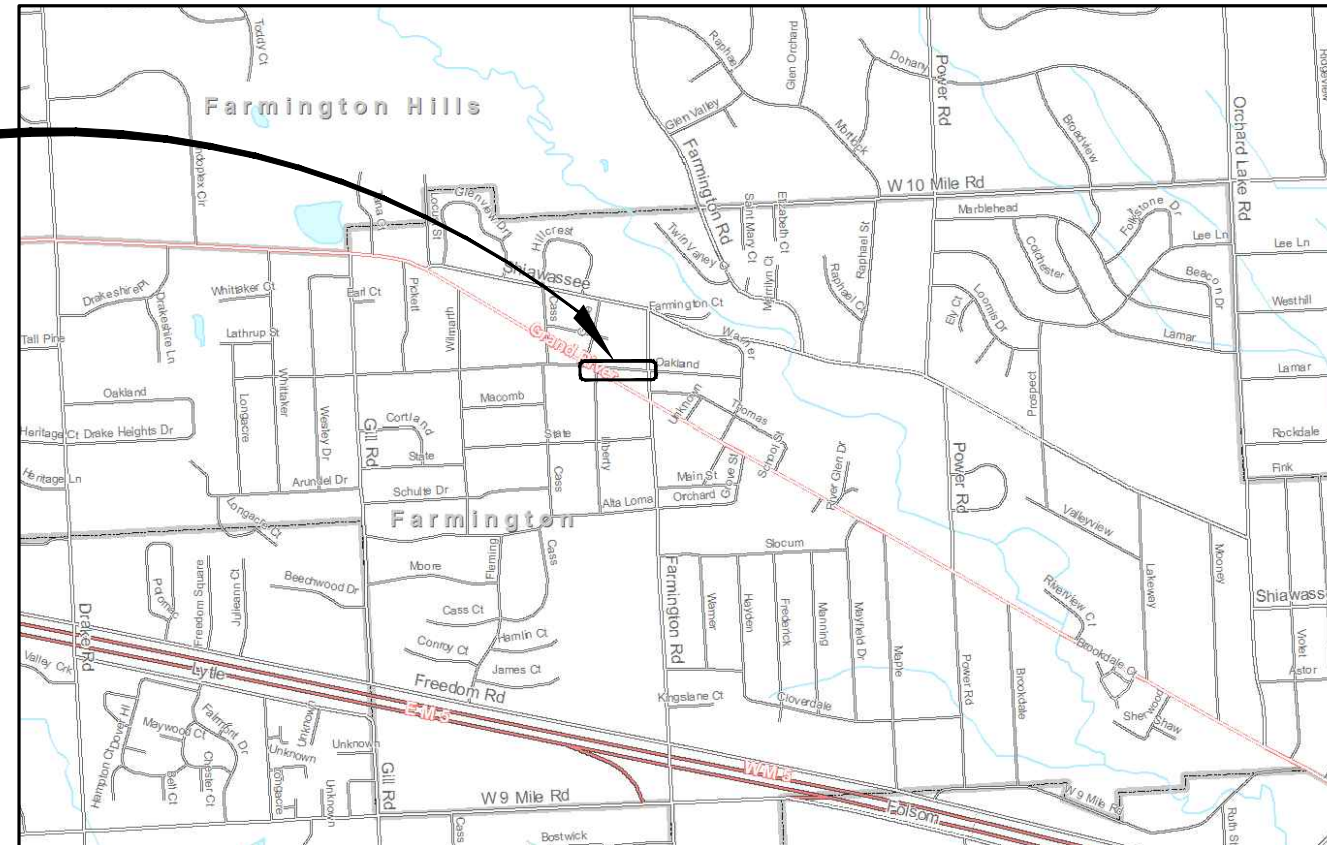
SARA BOWMAN
• MAYOR PRO-TEM •

WILLIAM GALVIN
JOE LaRUSSA
MARIA TAYLOR
• COUNCIL MEMBERS •

DAVID MURPHY
• CITY MANAGER •

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28-29	WATER MAIN STANDARD DETAILS
30-31	SANITARY SEWER STANDARD DETAILS
32-33	STORM SEWER STANDARD DETAILS

**PROJECT
LOCATION**



LOCATION MAP
N.T.S.

M.D.O.T. STANDARD PLANS	
TITLE	PLAN NO.
*SIDEWALK RAMP AND DETECTABLE WARNING DETAILS	*R-28-J
DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS	R-29-I
CONCRETE CURB AND CONCRETE CURB & GUTTER	R-30-G

* MDT SPECIAL DETAIL

GENERAL PROVISIONS

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2012 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE MICHIGAN MANUAL ON TRAFFIC CONTROL DEVICES 2011 EDITION, AND ACCORDING TO THE MDT LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS, 3R, DATED 08/28/08.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. CITY OF FARMINGTON WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN. PURSUANT TO ACTS 173 & 174 OF THE P.A. 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) 482-7171 (OR 811). UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THE PLANS AND ARE NOT THE RESPONSIBILITY OF THE CITY OF FARMINGTON.

APPLICATION DATE	PERMITS	APPROVAL DATE
7/6/18	MDEQ WATER MAIN PA 399	7/20/18
	MDOT ROW PERMIT	
	OCWRC SOIL EROSION CONTROL PERMIT	

CONTRACT FOR:
APPROXIMATELY 1350 SYD OF ROAD RECONSTRUCTION ALONG WITH LANDSCAPING,
SIDEWALK AND LIGHTING IMPROVEMENTS



Advancing Communities

34000 Plymouth Road | Livonia, MI 48150
P (734) 522-6711 | F (734) 522-6427

PREPARED UNDER THE SUPERVISION OF:

53585
Registration No.
-
Date

MATTHEW D. PARKS, P.E.

REVISIONS

PROJECT NO. 0111-18-0030	SHEET NO. 1 OF 33
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WATER & SEWER UTILITY SYMBOLS

EXISTING

- ST STORM MANHOLE
- SQUARE CATCH BASIN
- ⊕ ROUND CATCH BASIN
- === CULVERT
- ⊕ CULVERT W/O END SECTION
-) CULVERT W/END SECTION
- S SANITARY MANHOLE
- ⊙ CLEAN OUT
- ⊗GW GATE VALVE & WELL
- GATE VALVE & BOX
- ⊗ W WATER STOP BOX
- ⊙ FIRE HYDRANT
- ⊕ MP METER PIT
- ⊕ WATER METER
- ⊕ SH SPRINKLER HEAD
- ⊕ IRRIGATION VALVE

PROPOSED

- STORM MANHOLE
- INLET/CATCH BASIN
-) CULVERT END SECTION
- SANITARY MANHOLE
- ⊗GV&W GATE VALVE & WELL
- ⊗GV&B GATE VALVE & BOX
- ⊗TSV&W TAPPING SLEEVE VALVE & WELL
- ⊗TSV&B TAPPING SLEEVE VALVE & BOX
- ⊙ FIRE HYDRANT

REAL ESTATE SYMBOLS

- ↔ CONTIGUOUS PROPERTY SYMBOL
- ⊗ PARCEL NUMBER BOX
- ⊗ NO ROW IMPACTS

MISCELLANEOUS UTILITY SYMBOLS

EXISTING

- ↖ GUY WIRE
- ⊗GP GUY POLE
- ⊗U UTILITY POLE
- ⊕U UTILITY POLE W/LIGHT
- ⊕ LIGHT/DECOR LAMP POLE
- ⊕ FLOOD LIGHT
- ⊕ GAS VALVE
- ⊕ GAS VENT
- ⊕ G GAS METER
- ⊕ G GAS RISER
- ⊕ TRAFFIC SIGNAL
- ⊕ PEDESTRIAN RISER
- ⊕ TRANSFORMER PAD
- ⊕ U PRIVATE UTILITY MANHOLE
- R X R RAILROAD CROSSING
- ⊕ E ELECTRIC METER
- ⊕ PB PHONE BOOTH
- ⊕ TS TRAFFIC SIGNAL CONTROLLER
- ⊕ HAND HOLE
- ⊕ E ELECTRIC RISER
- ⊕ T TELEPHONE RISER
- ⊕ C CABLE TV RISER
- ⊕ W MONITORING WELL
- ⊕ UNDERGROUND MARKER

MISCELLANEOUS SYMBOLS

EXISTING

- ⊕ RIPRAP
- ⊕ SIGN
- FLOW DIRECTION
- ⊕ STUMP
- ⊕ WETLAND
- ⊕ CONIFEROUS TREE } CL 1 1" TO 5"
- ⊕ DECIDUOUS TREE } CL 2 6" TO 17"
- ⊕ CONIFEROUS SHRUB } CL 3 18" TO 35"
- ⊕ DECIDUOUS SHRUB } CL 4 36" AND UP
- ⊕ SB# SOIL BORING
- ⊕ SECTION CORNER
- ⊕ MON MONUMENT
- ⊕ IRON ROD/PIPE
- ⊕ PK PK NAIL
- ⊕ BM# BENCHMARK
- ⊕ TP# TRAVERSE POINT
- ⊕ MAIL/NEWSPAPER BOX
- ⊕ FP FLAG POLE
- ⊕ POST

HAZARDOUS OR FLAMMABLE MATERIAL USED WITH UNDERGROUND GAS & ELECTRICAL LINES

CAUTION - CRITICAL UNDERGROUND UTILITY USED WITH TELEPHONE & FIBER OPTIC LINES

PROPOSED

- ⊕ RIPRAP
- ⊕, ⊕, ⊕, ⊕, ⊕, ⊕ SIGN
- FLOW DIRECTION
- ⊕, ⊕, ⊕ STRUCTURE NUMBER WM SAN STM
- ⊕ ADA SIDEWALK RAMP
- ⊕ DETECTABLE WARNING SURFACE

UTILITY PATTERN

EXISTING

- ELEC --- ELECTRICAL *
- 6" (COMPANY) GAS --- GAS/OIL
- (COMPANY) CABLE/TEL --- CABLE/TELEPHONE *
- FIBER OPTIC --- FIBER OPTIC *
- 12" WM --- WATER
- 12" SAN --- SANITARY
- 12" STM --- STORM

PROPOSED

- 12" --- STORM/SANITARY/WATER
 - 12" --- PRIMARY UTILITY WILL HAVE A CONTINUOUS LINESTYLE, WITH THE SECONDARY UTILITY MATCHING ITS RESPECTIVE EXISTING UTILITY LNESTYLE
- *OH = OVERHEAD , UG = UNDERGROUND

ROW PATTERN

EXISTING

- ROW --- ROW
- SECTION --- SECTION
- PROPERTY/PARCEL --- PROPERTY/PARCEL

PROPOSED

- ROW --- ROW

TOPO PATTERN

EXISTING

- HEDGE/TREE --- HEDGE/TREE
- FENCE --- FENCE
- GUARDRAIL --- GUARDRAIL
- CENTERLINE OF DITCH --- CENTERLINE OF DITCH
- RAILROAD --- RAILROAD
- WETLAND/EDGE OF WATER --- WETLAND/EDGE OF WATER

PROPOSED

- GRADING LIMIT (SLOPE STAKE) --- GRADING LIMIT (SLOPE STAKE)
- CENTERLINE OF DITCH --- CENTERLINE OF DITCH
- GUARDRAIL --- GUARDRAIL
- FENCE --- FENCE

REMOVAL LEGEND

- ⊗ SIDEWALK REMOVAL
- ⊗ HMA SURFACE REMOVAL
- ⊗ PAVEMENT REMOVAL
- ⊗ COLD MILLING HMA SURFACE
- ⊗ HMA BASE CRUSHING AND SHAPING
- ⊗ EXCAVATION, EARTH, MODIFIED
- ⊗ CURB AND GUTTER, REM
- ⊗ TREE, REM
- S-XXXXXX SALVAGE
- B-XXXXXX BULKHEAD
- A-XXXXXX ABANDON
- R-XXXXXX REMOVE
- ADJ-XXXXXX ADJUST
- REL-XXXXXX RELOCATE
- REC-XXXXXX RECONSTRUCT
- R B/O-XXXXXX REMOVE BY OTHERS
- ADJ B/O-XXXXXX ADJUST BY OTHERS
- REL B/O-XXXXXX RELOCATE BY OTHERS

IF NECESSARY FOR CLARITY

- ⊗ SALVAGE
- ⊗ BULKHEAD
- ⊗ ABANDON
- ⊗ CLEARING
- ⊗ REMOVE
- ⊗ REL RELOCATE
- ⊗ REC RECONSTRUCT
- ⊗ REL B/O RELOCATE BY OTHERS
- ⊗ ADJ B/O ADJUST BY OTHERS

SPECIAL LEGEND

OHM
ARCHITECTS ENGINEERS PLANNERS
34000 Plymouth Road
Livonia, MI 48150
P (734) 522-6711 | F (734) 522-6427
OHM-ADVISORS.COM

REVISIONS:

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DATE: 01/25/2011 15:00:03
PROJECT: 0125011180030_Oakland_St_Reconstruct
CITY/VILLAGE/TOWNSHIP: FARMINGTON
COUNTY: OAKLAND
SCALE: NTS
H: NTS
V: NTS
VERT DATUM: NAVD83
HORIZ DATUM: NAVD83
DRAWN BY: JKH
CHECKED BY: JKH
DATE: 01/25/2011 15:00:03
PROJECT: 0125011180030_Oakland_St_Reconstruct
CITY/VILLAGE/TOWNSHIP: FARMINGTON
COUNTY: OAKLAND
SCALE: NTS
H: NTS
V: NTS
VERT DATUM: NAVD83
HORIZ DATUM: NAVD83
DRAWN BY: JKH
CHECKED BY: JKH

**CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
LEGEND**

DRAWING PATH: P:\0101_0125011180030_Oakland_St_Reconstruct\Drawings\Civil\0318003001EG.dwg Jan 25, 2019 - 3:52pm

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GENERAL

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2012 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION EXCEPT AS NOTED HEREIN AND IN THE CONTRACT DOCUMENTS.

LIMITATIONS ON PRIVATE WORK: DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS ADJACENT TO THE PROJECT, UNLESS GIVEN WRITTEN CONSENT OF THE ENGINEER.

THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER TO COMPLY WITH ALL FEDERAL, STATE, AND CITY CODES FOR NOISE LEVELS, VIBRATIONS, OR ANY OTHER RESTRICTIONS WHILE REMOVING PAVEMENT OR FOR ANY OTHER CONSTRUCTION OPERATIONS WITHIN THIS CONTRACT TO BE INCLUDED IN THE RESPECTIVE ITEM OF WORK.

WHEN THE CONTRACTOR FAILS TO PERFORM THE DUTIES AS CALLED FOR ON THESE PLANS AND IN THE CONTRACT, THE ENGINEER MAY REQUIRE CITY FORCES TO PERFORM WORK, WITH OR WITHOUT NOTIFICATION TO THE CONTRACTOR OR THE SURETY. THE CONTRACTOR WILL BE CHARGED EQUIPMENT RENTAL RATES AS ESTABLISHED BY THE CITY. TIME CHARGED TO THE CONTRACTOR SHALL BE FROM THE TIME THAT THE WORKFORCE AND EQUIPMENT LEAVE THE CITY YARD TO THE TIME THAT THEY RETURN TO THE CITY YARD.

ALL AREAS DISTURBED BY THE CONTRACTOR AND/OR HIS SUBCONTRACTOR SHALL BE SEEDED AS SPECIFIED OR DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR THIS ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE AREAS OF WORK, INCLUDING EXISTING FENCING, LAWN, TREES, SPRINKLER SYSTEMS, AND SHRUBBERY.

THE CONTRACTOR SHALL RELOCATE DISTURBED ORNAMENTAL OBJECTS AS DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR THIS ACTIVITY.

DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. AREAS FOR SEEDING AND SODDING ARE INDICATED ON THE PLANS. MULCH BLANKET AND HIGH VELOCITY MULCH BLANKET SHALL BE PLACED IN ACCORDANCE TO SUBSECTION 816.03.H OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

ALL AREAS DISTURBED BY THE CONTRACTOR AND/OR HIS SUBCONTRACTOR BEYOND THE SLOPE STAKE LINE OF THE PROJECT SHALL BE SODDED OR SEEDS AS SPECIFIED OR DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR THIS ACTIVITY.

THE CONSTRUCTION OF ALL LONGITUDINAL JOINTS IN THE HMA LEVELING AND WEARING COURSES SHALL BE CONSTRUCTED WITH THE USE OF A JOINT MATCHING SHOE.

UNTIL THE FINAL ACCEPTANCE OF THE PROJECT, ANY RANDOM, IRREGULARLY CRACKED NEW CONCRETE CURB & GUTTER, CONCRETE PAVEMENT, OR SIDEWALK THAT OCCURS SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR PRIOR TO OPENING THE PAVEMENT TO TRAFFIC.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT. ADEQUATE CARE SHALL BE TAKEN AT ALL TIMES.

ALL DRIVEWAY OPENINGS SHALL CONFORM TO MDOT SPECIAL DETAIL R-29-H, DETAIL L OR DETAIL M, EXCEPT THE LAYOUT SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE GRADING OF AGGREGATE SHOULDERS SHALL BE AS DIRECTED BY THE ENGINEER.

AT LOCATIONS WHERE BARRIER CURBS TERMINATE, THE HEIGHT OF THE BACK OF CURB SHALL TRANSITION FROM FULL HEIGHT TO A HEIGHT OF ONE (1) INCH OVER 10 (10) FEET OR AS DIRECTED BY THE ENGINEER.

ANY PERMANENT SIGNS REQUIRING RELOCATION DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE SALVAGED AND RESET BY THE CONTRACTOR AT LOCATIONS DESIGNATED BY THE ENGINEER. SIGNS AND POST DAMAGED DURING THE REMOVAL AND STORAGE OPERATION SHALL BE REPLACED WITH NEW SIGNS AND POST BY THE CONTRACTOR AT THEIR SOLE EXPENSE.

THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR STORE ANY EQUIPMENT AND MATERIALS ON PRIVATE PROPERTY. ALL WORK SHALL BE CONFINED TO THE CONSTRUCTION LIMITS SHOWN ON THE PLANS UNLESS AUTHORIZED IN ADVANCE BY THE ENGINEER.

EARTH DISTURBANCE LIMITS FOR THIS PROJECT ARE SHOWN ON THE PLANS. RESTORATION MEASURES HAVE BEEN INCLUDED IN THE PLANS FOR THE APPROVED AREAS OF DISTURBANCE. THE CONTRACTOR SHALL SUBMIT AN EARTH CHANGE PLAN FOR ANY WORK BEYOND THE APPROVED LIMITS TO THE ENGINEER TO REVIEW FOR APPROVAL PRIOR TO THE DISTURBANCE. ALL COSTS FOR OBTAINING AND EXECUTING AN APPROVED EARTH CHANGE PLAN, INCLUDING RESTORATION, SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.

THE CONTRACTOR SHALL MAINTAIN ACCESS FOR POSTAL SERVICE AND REFUSE COLLECTION TO ALL PROPERTIES AT ALL TIMES. ACCESS SHALL ALSO BE MAINTAINED FOR EMERGENCY SERVICES, INCLUDING POLICE, FIRE AND EMERGENCY RESPONSE PERSONNEL AND EQUIPMENT, AT ALL TIMES.

THE CONTRACTOR SHALL PROTECT AND NOT DAMAGE THE NEW CONCRETE ON FARMINGTON ROAD, AS WELL AS THE NEW HMA SURFACE ON GRAND RIVER AVENUE.

REMOVALS

SAW CUTTING FOR PAVEMENT REMOVAL AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE TO THE DEPTH REQUIRED FOR PROPER REMOVAL OF PAVEMENTS OR CURB.

SAWING DEPTH SHALL BE ADEQUATE TO PREVENT SPALLING, CHIPPING, OR DAMAGE TO EXISTING PAVEMENT EDGES LEFT IN PLACE AS DIRECTED BY THE ENGINEER.

REMOVALS SHALL BE DONE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN FIELD.

SIDEWALK REMOVAL LIMITS SHALL BE TO THE NEAREST PANEL. PARTIAL PANEL REMOVALS ARE NOT ACCEPTABLE, UNLESS APPROVED BY THE ENGINEER.

CURB SECTION REMOVALS SHALL BE TO THE NEAREST JOINT. PARTIAL CURB SECTION REMOVALS ARE NOT ACCEPTABLE.

THE CONTRACTOR SHALL REMOVE THE EXISTING PAVEMENT SURFACE, AS DIRECTED BY THE ENGINEER, TO A SUFFICIENT DEPTH IN ORDER TO CONSTRUCT THE PROPOSED PAVEMENT CROSS-SECTION.

PAVEMENT REMOVAL AS SHOWN ON THE PLANS SHALL BE AT THE DISCRETION OF THE ENGINEER. IF IN HIS/HER JUDGEMENT, AREAS OF PAVEMENT MAY BE LEFT IN PLACE, OR ADDITIONAL AREAS ADDED, TO PROVIDE THE PROPER CROSS-SECTION AND BASE, ADJUSTMENTS CAN BE MADE IN THE QUANTITIES.

SAW CUTS ARE NOT PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE REMOVAL ITEMS.

ALL SIGN SALVAGES SHALL BE RESET IMMEDIATELY.

MISS DIG RULES APPLY PRIOR TO SAW CUTTING AND REMOVAL IF SHALLOW LEADS ARE EXPECTED OR ENCOUNTERED, HAND DIGGING OR POT HOLING OUTSIDE OF THE PAVEMENT, BEHIND THE SECTION OF CURB REMOVAL SHALL BE CONDUCTED AT NO ADDITION EXPENSE TO THE OWNER.

UTILITY NOTES

1. FOR PROTECTION OF UNDERGROUND UTILITIES AND CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL DIAL 1-800-482-7171 OR 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS OF THE 'MISS DIG' ALERT SYSTEM WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE 'MISS DIG' ALERT SYSTEM.

2. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT. ADEQUATE CARE SHALL BE TAKEN AT ALL TIMES.

3. THE LOCATIONS SHOWN FOR ALL PUBLIC UTILITIES, INCLUDING WATER SERVICE AND SANITARY SEWER LEADS ARE BASED ON BEST AVAILABLE INFORMATION. NO GUARANTEE IS MADE REGARDING THE ACCURACY OF THIS INFORMATION. THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATION(S) IF HE DESIRES TO IN PERFORMING THE WORK OF THIS PROJECT. PAYMENT FOR 'EXPLORATORY EXCAVATION, TRENCH' WILL NOT BE PAID FOR UNLESS APPROVED IN ADVANCE BY THE ENGINEER.

4. ALL UTILITY WORK, INCLUDING STORM SEWER, SANITARY SEWER AND WATER MAIN, SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF FARMINGTON'S STANDARD DETAILS.

5. THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR WRITTEN NOTICE TO ALL PROPERTY OWNERS PRIOR TO THE CLOSURE OF DRIVEWAYS OR THE INTERRUPTION OF CITY WATER SERVICE IN THE EVENT OF A WATER MAIN SHUT-DOWN.

6. THE CONTRACTOR SHALL NOTE THAT A NEW 8-INCH WATER MAIN IS BEING CONSTRUCTED ALONG OAKLAND AVENUE. THE NEW WATER MAIN SHALL BE DISINFECTED AND TESTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. UPON PASSING BOTH THE PRESSURE TEST(S) AND BACTERIOLOGICAL TEST(S), THE CONTRACTOR SHALL TIE IN THE NEW WATER MAIN AS SHOWN ON THE PLANS. ONCE THE NEW MAIN IS IN SERVICE, THE CONTRACTOR SHALL TRANSFER THE EXISTING WATER SERVICES FROM THE 4-INCH WATER MAIN TO THE NEW 8-INCH WATER MAIN. THE CONTRACTOR SHALL NOTE THAT IF GALVANIZED OR STEEL SERVICE LEADS ARE ENCOUNTERED, NEW COPPER SERVICES WILL BE INSTALLED. ONCE THE SERVICE LEADS HAVE BEEN TRANSFERRED TO THE NEW 8-INCH WATER MAIN, THE 4-INCH WATER MAIN WILL BE REMOVED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

7. THE CONTRACTOR SHALL NOTE THAT THERE ARE SELECTIVE SANITARY SEWER REPAIRS AND CONSTRUCTION ALONG OAKLAND AVENUE. SOME OF THIS WORK MUST BE PRECEDED BY SEWER CLEANING AND VIDEO RECORDING IN ORDER TO VERIFY THE LOCATION OF THE NEEDED REPAIRS. THEREFORE, THE FOLLOWING SANITARY SEWER SEGMENTS WILL REQUIRE CLEANING AND VIDEO RECORDING:

- SANITARY MANHOLE 2046 TO SANITARY MANHOLE 2056

THE ACTUAL WORK PERFORMED ON THE SANITARY SEWERS INCLUDING CIPP LINING, MAY CHANGE BASED ON THE FINDINGS OF THE VIDEO INSPECTIONS. ALL WORK MUST BE APPROVED IN ADVANCE BY THE ENGINEER.

10. THE CONTRACTOR SHALL NOTE THAT THERE ARE SELECTED LOCATIONS WHERE STORM STRUCTURES ARE BEING REMOVED AND REPLACED SO AS TO ALIGN WITH THE CONSTRUCTION OF NEW CURB OR ALLOW FOR THE PLACEMENT OF CONCRETE SPILLWAYS. AT THESE LOCATIONS, THERE MAY BE INSTANCES WHERE THE WORK MAY NEED TO BE MODIFIED BY THE ENGINEER TO DEAL WITH SPECIFIC SITE CONDITIONS, INCLUDING ADJUSTING THE LOCATION AND/OR SPECIFIC WORK THAT WILL NEED TO BE PERFORMED. IF THIS IS REQUIRED IN THE OPINION OF THE ENGINEER, ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND PAID FOR AT THE UNIT PRICE(S) FOR THE ACTUAL WORK PERFORMED.

11. THE CONTRACTOR SHALL NOTE THAT SELECTED LOCATIONS ARE BEING IDENTIFIED FOR INSTALLATION OF 'SUBGRADE UNDERDRAIN, 6 INCH.' UNLESS OTHERWISE SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AT THESE LOCATIONS, PIPE SEGMENTS EQUALING 25 FEET OF 6-INCH SUBGRADE UNDERDRAIN SHALL BE INSTALLED. THIS PROJECT IS NOT PROPOSING THE CONSTRUCTION OF 'CONTINUOUS' SUBGRADE UNDERDRAIN.

12. WHERE STORM SEWER INLETS ARE TO BE PLACED IN F2 AND F4 CURB AND GUTTER, EAST JORDAN IRON WORKS 7045 CASTINGS AND TYPE "M2" SINUSOIDAL COVERS ARE TO BE USED. AT ALL OTHER LOCATIONS WHERE INLETS ARE TO BE CONSTRUCTED, EAST JORDAN IRON WORKS 5080 CASTINGS AND TYPE "M2" SINUSOIDAL COVERS ARE TO BE USED.

13. THE RECONSTRUCTION OF STRUCTURES, BEYOND "STRUCTURE ADJUSTMENT", SHALL BE AS DIRECTED BY THE ENGINEER.

LAWN SPRINKLER SYSTEMS AND LANDSCAPING

IT IS ANTICIPATED THAT THE CONTRACTOR WILL COME ACROSS EXISTING IRRIGATION SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF EXISTING LAWN SPRINKLER SYSTEMS AND/OR LANDSCAPING (IN WRITING WITH A COPY SENT TO THE ENGINEER) TWO WEEKS IN ADVANCE OF ANY WORK TO BE DONE THAT WILL AFFECT THOSE SYSTEMS AND/OR LANDSCAPING. IF THE PROPERTY OWNER FAILS TO RELOCATE THE LAWN SPRINKLER SYSTEM PRIOR TO THE CONTRACTOR BEGINNING WORK, AND IF THE CONTRACTOR CUTS THE SYSTEM DURING CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE REPAIRS OF THE SPRINKLER SYSTEM WITH THE INSPECTOR. IF THE SPRINKLER SYSTEM IS PROPERLY MARKED BY THE PROPERTY OWNER, AND THE CONTRACTOR DAMAGES THE SYSTEM, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THE NECESSARY REPAIRS AT THE CONTRACTOR'S COST. IF THE PROPERTY OWNER FAILS TO RELOCATE THE LANDSCAPING PRIOR TO THE CONTRACTOR BEGINNING WORK, THE CONTRACTOR SHALL CAREFULLY SALVAGE THE LANDSCAPING ITEMS AND STOCKPILE THEM ON THE PROPERTY OWNERS PROPERTY FOR THE PROPERTY OWNER.

FLAGGING OPERATIONS

THE CONTRACTOR AND ANY SUBCONTRACTORS WHO WILL BE USING A FLAGGING OPERATION FOR THIS PROJECT SHALL BE REQUIRED TO PROVIDE SATISFACTORY DOCUMENTATION PROVING THAT THEY HAVE MET THE MINIMUM REQUIREMENTS SET FORTH IN SECTION 812 OF THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. FAILURE TO PROVIDE DOCUMENTATION WILL RESULT IN THE ROAD AUTHORITY WITHHOLDING PAYMENT FOR FLAGGING OPERATIONS.

TREE PRESERVATION

TREE REMOVAL SHALL NOT COMMENCE IN ANY OPEN AREA UNTIL AFTER APPROVAL TO DO SO IS GIVEN BY THE ENGINEER. TREES REMOVED BY THE CONTRACTOR THAT WERE NOT CLEARLY MARKED AND INTENDED FOR REMOVAL SHALL BE REPLACED WITH 2 1/2" TO 3" DIAMETER PLANTINGS OF A SIMILAR SPECIES AT THE CONTRACTOR'S EXPENSE, REPLACEMENT TREES SHALL BE PROVIDED SUCH THAT THE SUM OF THE DIAMETERS OF THE REPLACEMENT TREES EQUALS THE DIAMETER OF THE TREES REMOVED. TEMPORARY FENCE SHALL BE ERECTED AROUND TREES THAT ARE TO BE SAVED.

HAND FINISHING

HAND FINISHING OF CONCRETE POURS TO BE STRUCK OFF AND CONSOLIDATED BY HAND METHODS WILL BE PERMITTED ON VARIABLE WIDTH LANES AND LANES FORMED BY FLEXIBLE FORMS FOR SHORT RADIUS CURVES AS DIRECTED BY THE ENGINEER.

SOIL EROSION MEASURES

PLACE PERMANENT SEED AND MULCH AS SOON AS POSSIBLE. CRITICAL DITCH GRADES SHOULD BE PROTECTED WITH EITHER SOD OR SEED/MULCH AS DIRECTED BY THE ENGINEER. REFER TO PLANS AND STANDARD DETAILS FOR SOIL EROSION DETAILS.

CONCRETE PAVEMENT/CURB AND GUTTER

THE CONCRETE MIX SHALL BE GRADE P1 IN ACCORDANCE WITH SECTION 601 OF THE 2012 MDOT STANDARD SPECS FOR CONSTRUCTION.

ADJUSTING MONUMENT BOXES

IT IS THE INTENT THAT ALL GOVERNMENT CORNERS ON THIS PROJECT BE PRESERVED AND THAT, WHERE NECESSARY, MONUMENT BOXES BE PLACED OR ADJUSTED, WHETHER SHOWN OR NOT. PRESERVING MONUMENT BOXES SHALL BE PERFORMED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

DUST CONTROL

THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST ON THE PROJECT BY SPRAYING WATER ON ANY AGGREGATE OR UNRESTORED SURFACES AS NEEDED OR AS REQUESTED BY THE ENGINEER. ALL COSTS FOR THIS OPERATION SHALL BE INCLUDED CONTRACT PAY ITEMS AND WILL NOT BE PAID FOR SEPARATELY.

SIDEWALK

ADDITIONAL SIDEWALK MAY BE ADDED BY THE ENGINEER TO THE SCOPE OF THE PROJECT PRIOR TO CONSTRUCTION. ANY SIDEWALK DAMAGED BY THE CONTRACTOR NOT MARKED FOR REMOVAL ON THE PLANS SHALL BE REPLACED AT THE COST OF THE CONTRACTOR.

UTILITIES

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE PROJECT LIMITS:

- FOR WATER & SANITARY/STORM SEWER:
CITY OF FARMINGTON
ATT: CHUCK EUDY
PH: 248-437-7250
- FOR ELECTRIC:
DETROIT EDISON
ATTN: MEREDITH SALENS
PH: (734) 397-4265
- FOR GAS:
CONSUMERS ENERGY
ATTN: CHRIS SCHNEIDER
PH: (734) 513-6277
- FOR TELEPHONE:
AT&T
ATTN: LARRY ZOAN
PH: (248) 456-0821
- FOR CABLE TELEVISION:
BRIGHT HOUSE CABLE
ATTN: BOB HENDZELL
PH: (313) 538-3911 EXT. 1112

MISC PROJECT QUANTITIES		
TOTAL	UNIT	DESCRIPTION
1	LSUM	Mobilization, Max., 5%
1	LSUM	Audio Video Route Survey
1	LSUM	Permit Fees Allowance
1	LSUM	Traffic Maintenance and Control
510	Ft	Erosion Control, Silt Fence
5	Ea	Erosion Control, Inlet Protection, Fabric Drop



OHM
ARCHITECTS ENGINEERS PLANNERS
34000 Plymouth Road
Livonia, MI 48150
P (734) 522-6711 | F (734) 522-6427
OHM-ADVISORS.COM

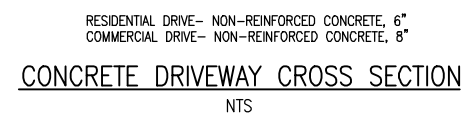
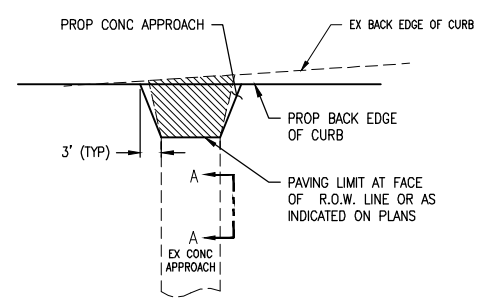
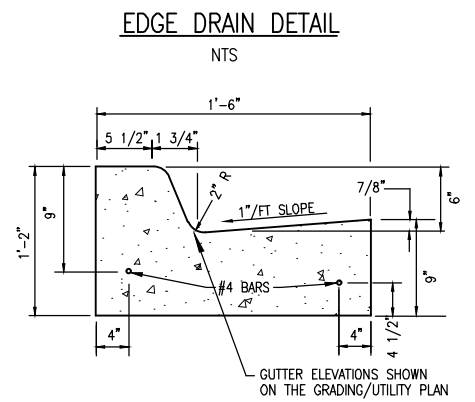
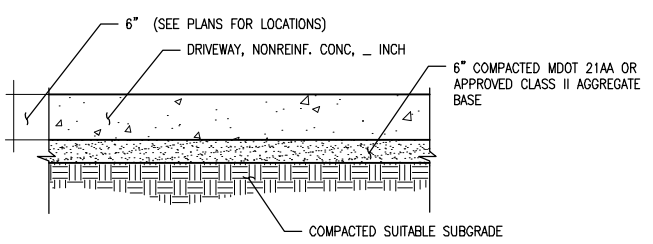
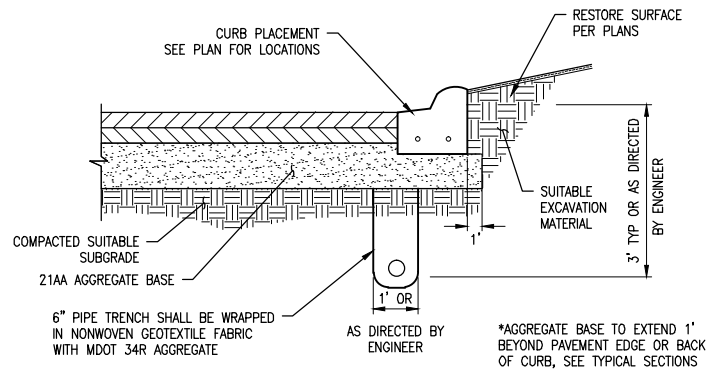
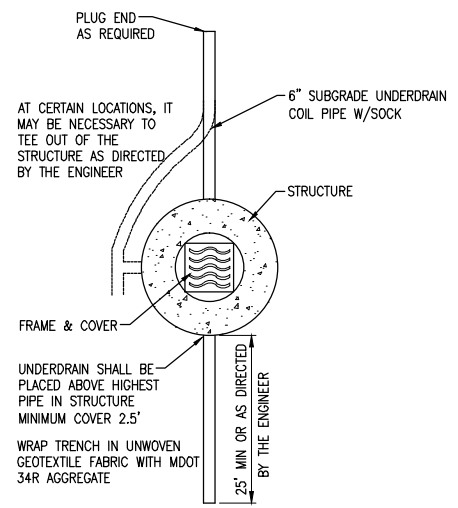
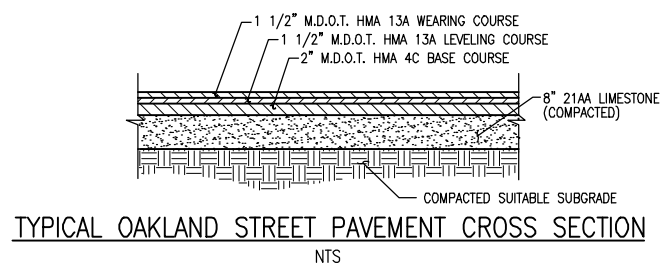
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DATE: 01/11/2023
 PROJ NUMBER: 8111-16-003
 PROJ NAME: KAW
 PROJ ADDR: JUL
 COUNTY: OAKLAND
 CITY/VILLAGE/TOWNSHIP: FARMINGTON
 H: N/A
 V: N/A
 SCALE: N/A
 HORIZONTAL: N/A
 VERT DATUM: NAVD83
 NORTHING: N/A
 EASTING: N/A

CITY OF FARMINGTON
 OAKLAND STREET RECONSTRUCTION
 GENERAL NOTES & DETAILS

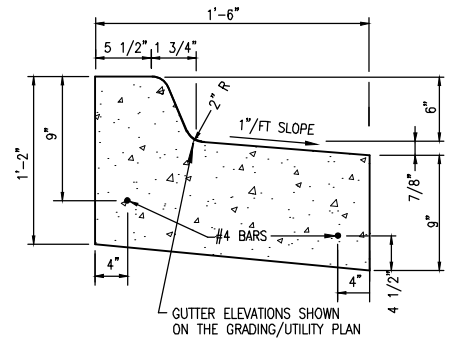
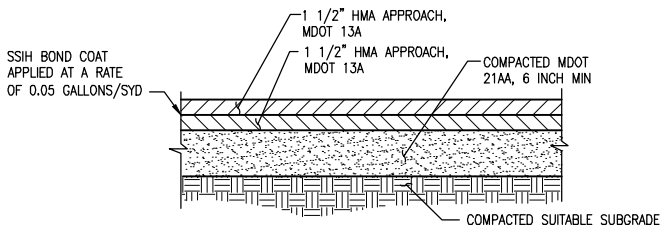
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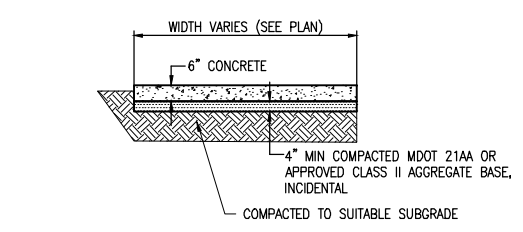
MDOT TYPE F2
 CONCRETE CURB AND GUTTER DETAIL
 NTS

HMA & CONCRETE DRIVE APPROACH (RESIDENTIAL)
 APPLIES: 33432 OAKLAND, 33424 OAKLAND, 33414 OAKLAND, 23801 FARMINGTON, 23715 FARMINGTON
 NTS



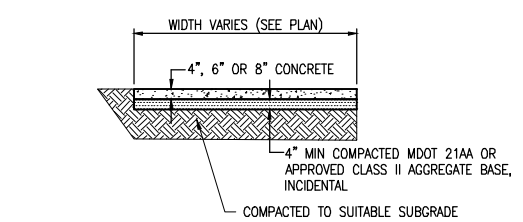
MDOT TYPE F2 R (MOD)
 CONCRETE CURB AND GUTTER DETAIL
 NTS

NOTE:
 THE HMA SURFACE SHALL BE APPLIED IN 2 LIFTS
 HMA DRIVEWAY CROSS SECTION
 NTS



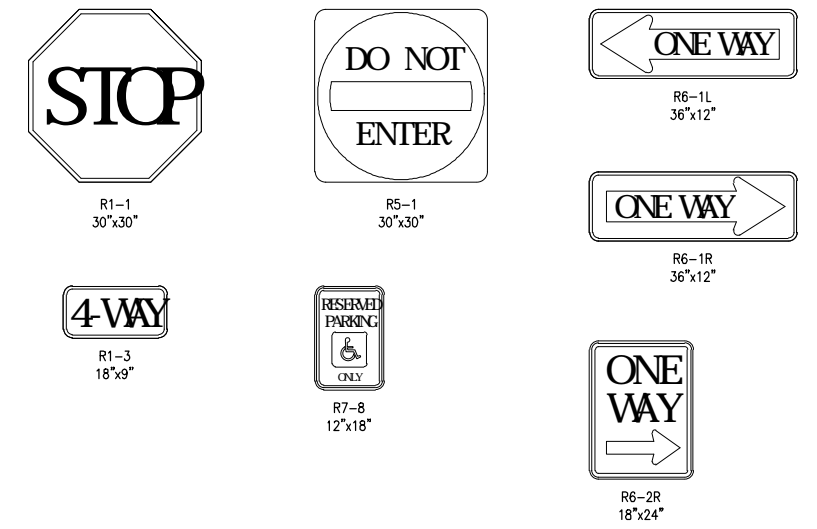
NOTES:
 1. PREP SUBBASE WITH PRAMITOL "C" OR EQUAL APPROVED SOIL STERILANT PRIOR TO PAVING
 2. PLACE 1/4 inch CONTRACTION JOINTS AT 5' INTERVALS
 3. PLACE 1/2 inch EXPANSION JOINTS AT 50' INTERVALS (MAX)

ADA RAMP CONCRETE SIDEWALK
 NTS



NOTES:
 1. PREP SUBBASE WITH PRAMITOL "C" OR EQUAL APPROVED SOIL STERILANT PRIOR TO PAVING
 2. PLACE 1/4 inch CONTRACTION JOINTS AT 5' INTERVALS
 3. PLACE 1/2 inch EXPANSION JOINTS AT 50' INTERVALS (MAX)

CONCRETE SIDEWALK
 NTS



SIGNS
 NTS

CHART FROM DRAKE RD

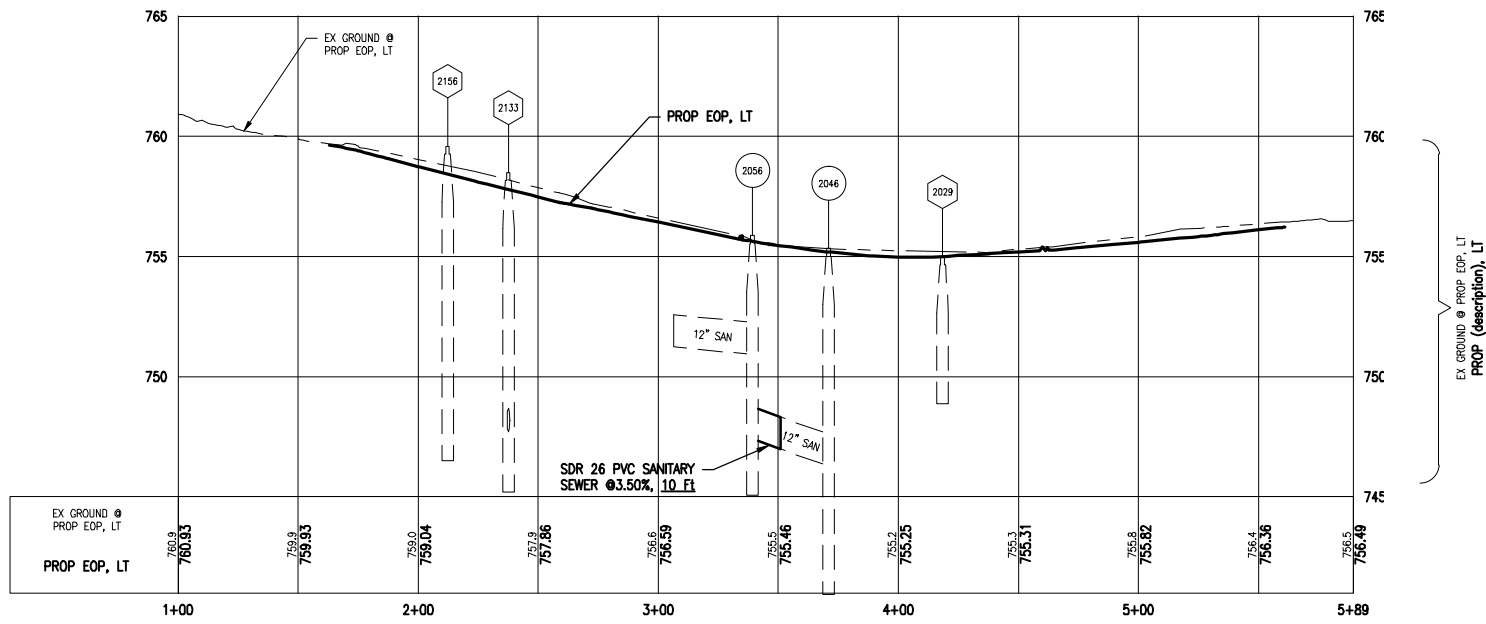
HMA APPLICATION ESTIMATE					
MIX TYPE	ITEM DESCRIPTION	RATE OF APPL. LB/SYD	EST THICKNESS (INCHES)	PERFORMANCE GRADE	LOCATION/NOTES
5E1	HMA, 5E1	165	1.5	64-22	TOP COURSE AWI=260 MIN
4E1	HMA, 4E1	220	2	64-22	LEVELING COURSE
2C	HMA, 2C	440	4	58-22	BASE COURSE
W	HMA, 13A	VARIES	VARIES	58-22	PLACE WEDGING COURSE AS DIRECTED BY THE ENGINEER TO ACHIEVE PROPOSED X-SLOPE SHOWN IN THE TYPICAL SECTIONS
HMA APPROACH	HMA, 36A	163	3 (2 LIFTS)	58-22	

DATE: 01/25/2011 10:03:03 AM PROJ: R18-0033 KAW JCH COUNTY: OAKLAND CITY/TOWNSHIP: FARMINGTON SCALE: NTS V: NTS SHEET: 4 OF 33

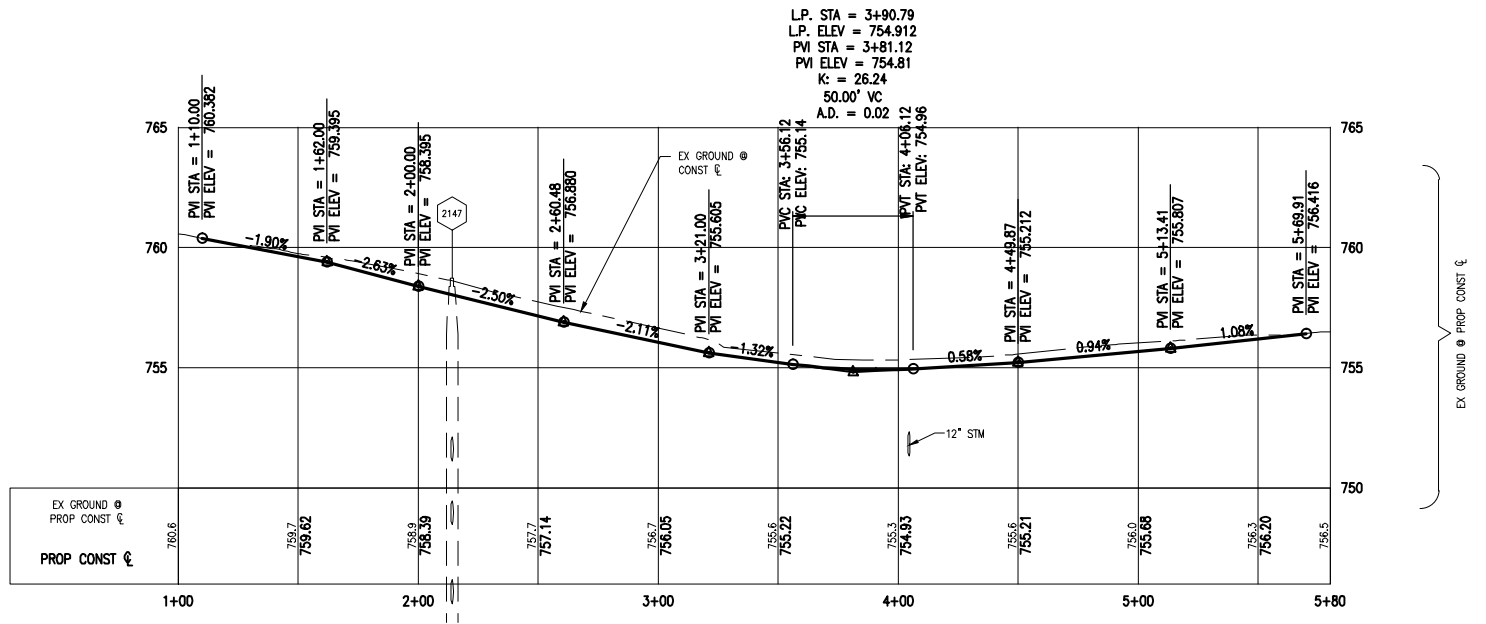
CITY OF FARMINGTON
 OAKLAND STREET RECONSTRUCTION
 GENERAL NOTES & DETAILS

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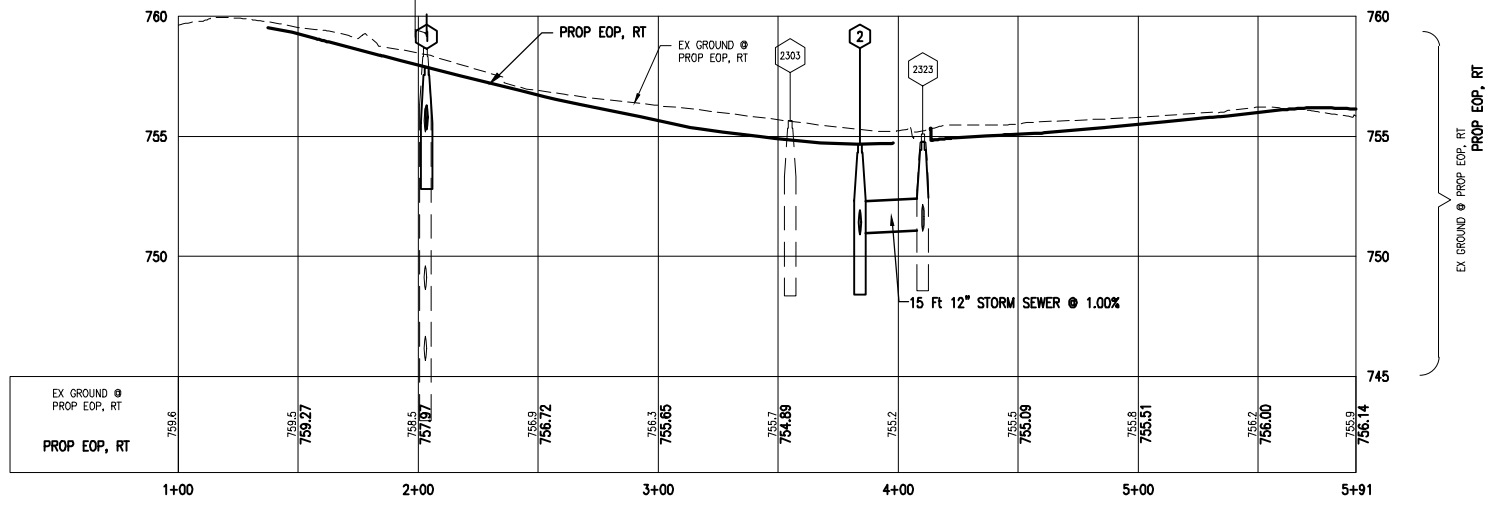
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- 2156
STA 2+01.09, -23.7' L
STORM MANHOLE
T/CAST 759.60
12" INV S 749.00
- 2056
STA 3+24.58, -6.6' L
EX SAN MH
T/CAST 756.87
12" INV E 747.57
12" INV N 747.62
12" INV S 751.09
PROP T/CAST 755.62
- 2133
STA 2+26.43, -19.1' L
STORM MANHOLE
T/CAST 758.49
12" INV SW 747.69
- 2046
STA 3+56.91, -6.2' L
EX SAN MH
T/CAST 755.34
12" INV W 746.44
12" INV S 743.44
PROP T/CAST 755.09
- 2029
STA 4+04.43, -6.2' L
EX SD CB
T/CAST 754.99
12" INV S 751.38
PROP T/CAST 755.09



- 2144
STA 2+14.11, 5.7' R
STORM MANHOLE
T/CAST 758.72
12" INV E 751.12
12" INV NE 745.17
12" INV SW 748.47
PROP T/CAST 757.99



- 2148
STA 2+10.56, 12.4' R
STORM MANHOLE
T/CAST 758.67
12" INV NE 745.67
12" INV N 748.62
12" INV S 755.17
- 2303
STA 3+62.55, 20.5' R
EX STM MH
T/CAST 755.66
12" INV SE 750.86
12" INV W 750.96
PROP T/CAST 754.87
- 2323
STA 4+04.58, 17.5' R
EX SD CB
T/CAST 755.10
12" INV N 751.16
12" INV SW 751.06
PROP T/CAST 754.77
12" INV SW 751.26
- 1
STA 2+11.00, 24.4' R
48" DIA CATCH BASIN
T/CAST 757.88
12" INV N 755.30
- 2
STA 3+91.61, 24.4' R
48" DIA CATCH BASIN
T/CAST 754.67
12" INV N 751.11
12" INV S 750.92

REVIEWS:

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DATE	PRO NUMBER	ENG	PRO IOR	PRO IOR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	01118-003	KW	JUL			OAKLAND	FARMINGTON	H: 1"=40' V: 1"=4'	NADES	NADES

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
PROFILES

JOB BENCHMARK #207
SET COTTON SPINDLE N FACE OF UTIL POLE
S SIDE OF OAKLAND ST
+/- 160' E OF GRAND RIVER
ELEV 756.93

TRAVEL POINT #107
N 353475.22
E 13390282.35 ELEV 755.31

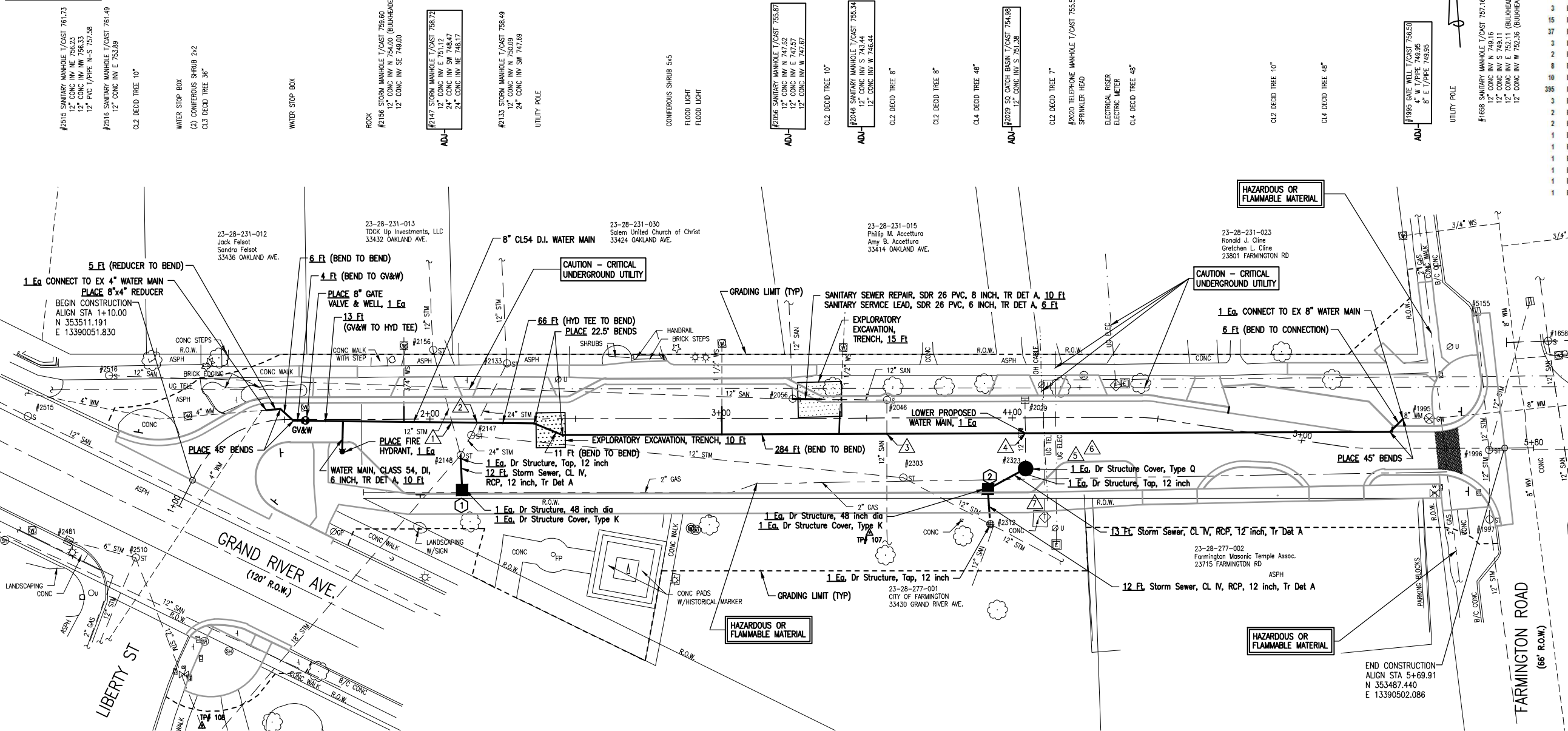
TRAVEL POINT #108
N 353426.82
E 13390048.62 ELEV 759.75

OAKLAND STREET

(50' R.O.W.)

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
7	Ft	Sanitary Service Lead, SDR 26 PVC, 6 inch, Tr Det A
11	Ft	Sanitary Sewer Repair, SDR 26 PVC, 8 inch, Tr Det A
2	Ea	Dr Structure Cover, Type K
1	Ea	Dr Structure Cover, Type Q
2	Ea	Dr Structure, 48 inch dia
3	Ea	Dr Structure, Tap, 12 inch
15	Ft	Exploratory Excavation, Trench
37	Ft	Storm Sewer, Cl IV, RCP, 12 inch, Tr Det A
3	Ft	Structure, Adj, Add Depth
2	Ea	Structure Cover, Adj
8	Ea	Structure, Adj
10	Ft	Water Main, Class 54, DI, 6 inch, Tr Det A
395	Ft	Water Main, Class 54, DI, 8 inch, Tr Det A
3	Ea	1-1/2 inch Curb Stop and Box
2	Ea	3/4 inch Curb Stop and Box
2	Ea	Connection to Existing Water Main
1	Ea	Fire Hydrant Assembly
1	Ea	Gate Valve and Well, 8 inch
1	Ea	Lower Proposed Water Main
1	Ea	Water Service, Jumper Connect, 1-1/2 inch
1	Ea	Water Service, Jumper Connect, 3/4 inch
1	Ea	Water Service, Type K Copper, 3/4 inch, Short



- 23-28-231-012 Jack Felsot Sandra Felot 33436 OAKLAND AVE.
- 23-28-231-013 TOCK Up Investments, LLC 33432 OAKLAND AVE.
- 23-28-231-030 Salem United Church of Christ 33424 OAKLAND AVE.
- 23-28-231-015 Philip M. Accettura Amy B. Accettura 33414 OAKLAND AVE.
- 23-28-231-023 Ronald J. Cline Gretchen L. Cline 23801 FARMINGTON RD
- 23-28-277-002 Farmington Masonic Temple Assoc. 23715 FARMINGTON RD
- 23-28-277-001 CITY OF FARMINGTON 33430 GRAND RIVER AVE.

WATER SERVICE SCHEDULE

ITEM	ADDRESS	APPROX. WM STATION
JUMPER CONNECT, 3/4 INCH	33436 OAKLAND	N/A
JUMPER CONNECT, 3/4 INCH	33432 OAKLAND AVE	1+44
SHORT, 1 1/2 INCH	33424 OAKLAND AVE	2+02
JUMPER CONNECT, 1 1/2 INCH	33414 OAKLAND AVE	2+43
JUMPER CONNECT, 1 INCH	23720 FARMINGTON RD	5+30
JUMPER CONNECT, 3/4 INCH	33324 OAKLAND AVE	UNKNOWN

WATER MAIN APPURTENANCES

ITEM	STATION	OFFSET	T/CAST OR F.G.
CONNECT TO EXISTING W/ 8"x4" REDUCER	1+44.34	3.8' L	
45' BEND	1+48.86	3.7' L	
45' BEND	1+53.15	0.4' R	
8" GV&W	1+57.15	0.4' R	T/ CAST
FIRE HYDRANT	1+69.87	11.1' R	F.G.
8"x6" TEE	1+70.09	0.6' R	
22.5' BEND	2+35.80	1.5' R	
22.5' BEND	2+45.54	5.6' R	
45' BEND	5+30.59	5.7' L	
45' BEND CONNECT TO EXISTING	5+35.03	10.1' L	

- UTILITY CROSSING WATER MAIN
 - EX STORM SEWER T/PIPE 750.01 PROP WM B/PIPE 752.49
 - EX STORM SEWER T/PIPE 750.50 PROP WM B/PIPE 752.23
 - EX SANITARY SEWER T/PIPE 744.50 PROP WM B/PIPE 749.46
 - EX STORM SEWER INV 751.30 PROP WM B/PIPE 749.97
 - UG TELE LINE B/PIPE UNKNOWN PROP WM T/PIPE
 - UG ELEC LINE B/PIPE UNKNOWN PROP WM T/PIPE
 - UG GAS LINE B/PIPE UNKNOWN PROP WM T/PIPE
- UTILITY CROSSING STORM SEWER
 - UG GAS LINE B/PIPE UNKNOWN PROP STM T/PIPE



Know what's below.
Call before you dig.

DATE: 01/15/2003 PROJ: KAW JCH DATE: 01/15/2003 PROJ: KAW JCH DATE: 01/15/2003 PROJ: KAW JCH

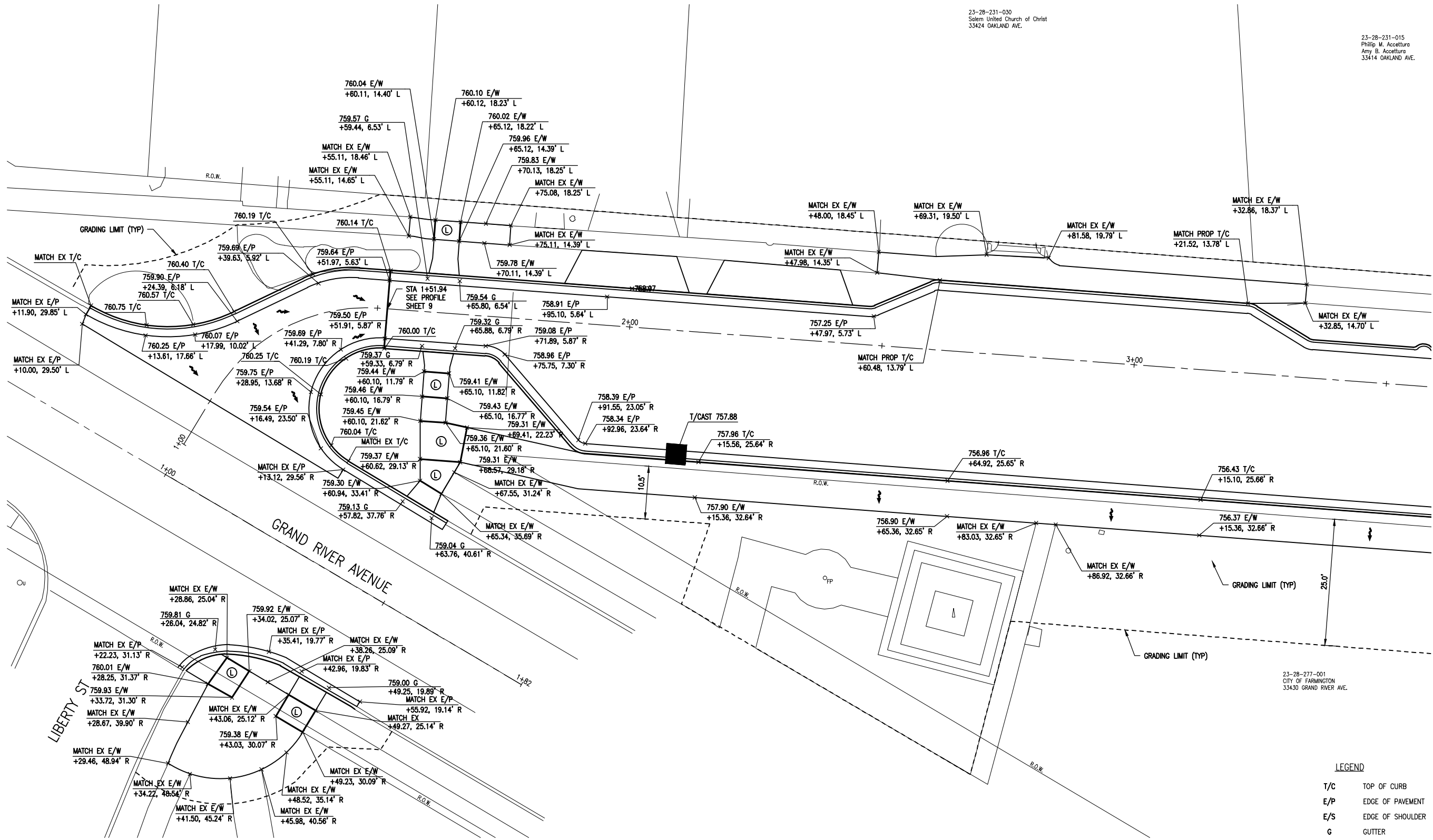
CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
UTILITY PLAN

OAKLAND STREET (50' R.O.W.)



23-28-231-030
Salem United Church of Christ
33424 OAKLAND AVE.

23-28-231-015
Philip M. Accettura
Amy B. Accettura
33414 OAKLAND AVE.



- T/C TOP OF CURB
- E/P EDGE OF PAVEMENT
- E/S EDGE OF SHOULDER
- G GUTTER
- E/W EDGE OF WALK
- T/CAST TOP OF CAST
- HP/LP HIGH POINT/LOW POINT

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REVISIONS:

HORIZONTAL VERT DATUM

NAVD83

SCALE

1"=10'

COUNTY

OAKLAND

CITY/TOWNSHIP

FARMINGTON

CADD

PR

PROJ MGR

JUH

ENG

ASD

DATE

01/15/2020

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
DETAILED GRADING

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OAKLAND STREET (50' R.O.W.)

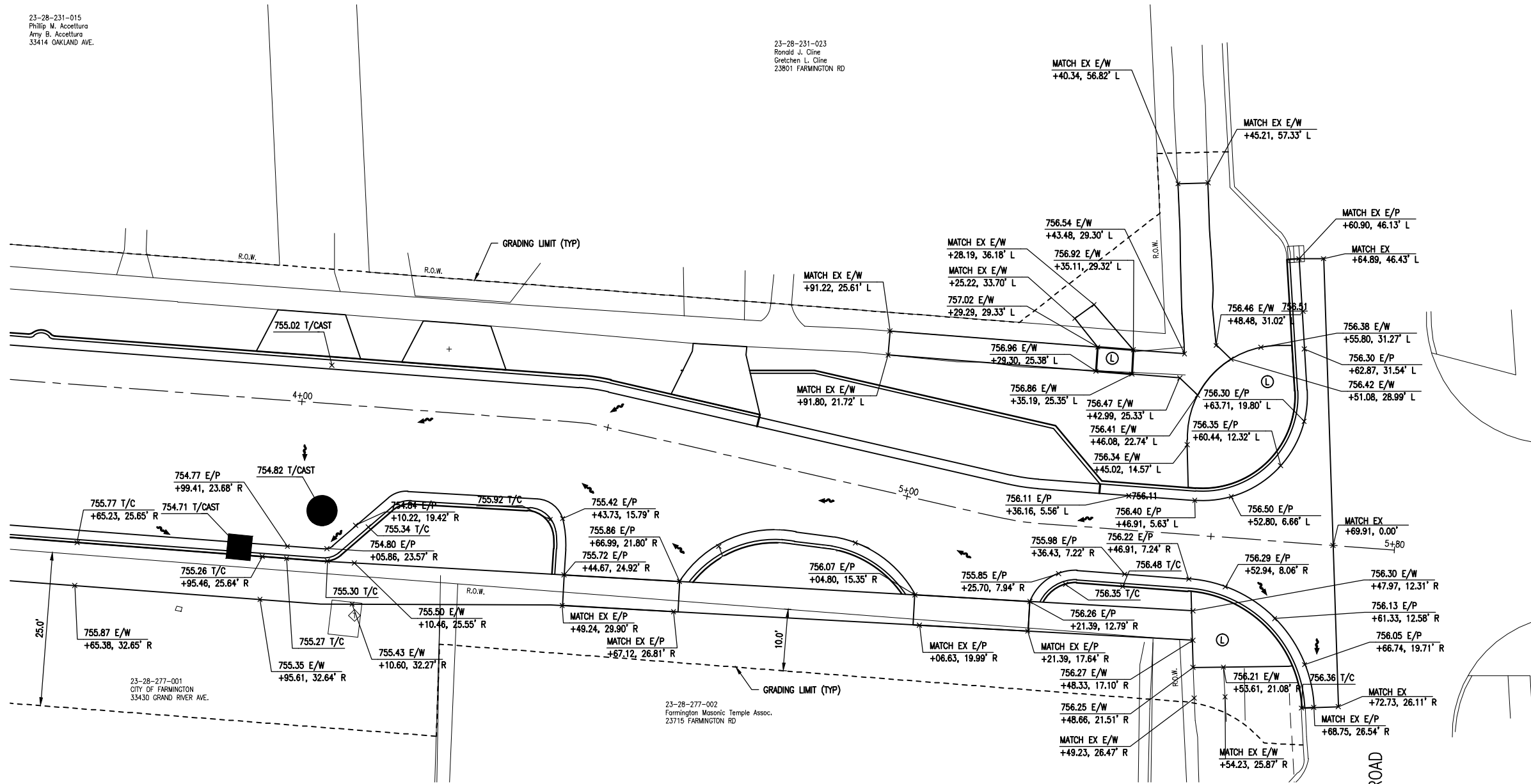


23-28-231-015
Phillip M. Accettura
Amy B. Accettura
33414 OAKLAND AVE.

23-28-231-023
Ronald J. Cline
Gretchen L. Cline
23801 FARMINGTON RD

23-28-277-001
CITY OF FARMINGTON
33430 GRAND RIVER AVE.

23-28-277-002
Farmington Masonic Temple Assoc.
23715 FARMINGTON RD



LEGEND

- T/C TOP OF CURB
- E/P EDGE OF PAVEMENT
- E/S EDGE OF SHOULDER
- G GUTTER
- E/W EDGE OF WALK
- T/CAST TOP OF CAST
- HP/LP HIGH POINT/LOW POINT

REVISIONS:

DATE: 01/15/2020

SCALE: 1"=10'

CITY: FARMINGTON

COUNTY: OAKLAND

PRD: 01/15/2020

PROJ: 23-28-231-015

ENG: PHM

DATE: 01/15/2020

SHEET: 10

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
DETAILED GRADING

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GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH DRAWINGS FOR ALL DIVISIONS OF WORK.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE PROJECT SITE PRIOR TO BIDDING THE WORK.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH WORK. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS. NO WORK SHALL BE DONE IN AREAS WHERE SUCH DISCREPANCIES EXIST. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- CONTACT MISS DIG (800-482-7171) AND ALL LOCAL UTILITY SERVICES FOR UTILITY LOCATIONS PRIOR TO COMMENCING WITH WORK.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO COMMENCING WITH WORK.
- THE CONTRACTOR SHALL COORDINATE ALL WORK AND BE RESPONSIBLE FOR ALL METHODS, MEANS, SEQUENCE AND PROCEDURES OF WORK.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY MEASURES DURING CONSTRUCTION OPERATIONS TO PROTECT THE PUBLIC ACCORDING TO ALL APPLICABLE CODES AND RECOGNIZED LOCAL PRACTICES.
- CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THE DRAWINGS AS WELL AS ANY DISCOVERED DURING THE CONSTRUCTION PROCESS.
- CONTRACTOR SHALL COORDINATE ACCESS AND STAGING AREAS WITH THE OWNER'S REPRESENTATIVE.
- THE LIMITS OF CONSTRUCTION LINE SHOWN DEFINES THE LIMITS OF WORK IN THIS CONTRACT. THERE MAY BE INSTANCES WHERE EROSION PROTECTION DEVICES AND UTILITY SYSTEMS EXTEND BEYOND THE PROJECT LIMITS LINE IN ORDER TO SUCCESSFULLY COMPLETE OPERATIONS AND/OR TIE INTO ADJACENT SYSTEMS.
- THE CONTRACTOR SHALL KEEP ALL DRAINAGE FACILITIES AFFECTED BY HIS CONSTRUCTION OPERATIONS CLEAN AND FULLY OPERATIONAL AT ALL TIMES. THIS MAY INCLUDE STRUCTURES LOCATED OUTSIDE THE PROJECT LIMIT LINES.
- MAINTAIN ALL EXISTING EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCE, ORANGE GEO FENCE AND/OR OTHER MEASURES) DURING CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ADVERSE IMPACTS TO THE ADJACENT WATER BODIES, SURFACES AND STORM SEWERS ACCORDING TO ALL APPLICABLE FEDERAL/STATE LAWS AND REGULATIONS.
- REPORT ALL EXISTING DAMAGE OF EXISTING SITE TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBSEQUENT DAMAGE.
- CONTRACTOR SHALL PROTECT, BY WHATEVER MEANS NECESSARY, THE EXISTING SITE IMPROVEMENTS TO REMAIN. ALL DAMAGED ITEMS SHALL BE REPLACED OR REPAIRED AT NO ADDITIONAL COST TO THE OWNER. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF ANY DAMAGE OCCURS.
- CONTRACTORS SHALL COORDINATE ALL WORK WITH RELATED TRADES AND THE GENERAL CONSTRUCTION OF THE PROJECT SO AS NOT TO IMPEDE THE PROGRESS OF THE WORK OF OTHERS OR THE CONTRACTORS OWN WORK.
- EACH CONTRACTOR SHALL VERIFY THE CONDITION AND COMPLETENESS OF ALL WORK PERFORMED BY OTHERS IN RELATION TO HIS/HER PROJECT WORK RESPONSIBILITIES INCLUDING THE CHECKING OF EXISTING ELEVATIONS OR STRUCTURES PRIOR TO INITIATING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF ANY SITE CONDITIONS ARE INCOMPLETE, MISSING OR DAMAGED.
- ALL CONSTRUCTION DEBRIS AND REMOVED ITEMS SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- NOTIFY OWNER'S REPRESENTATIVE 72 HOURS IN ADVANCE OF ANY PLANNED UTILITY INTERRUPTION.
- CONTRACTOR SHALL CLEAN THE WORK AREAS AT THE END OF EACH WORKING DAY. ALL MATERIALS, PRODUCTS AND EQUIPMENT SHALL BE STORED IN AN ORGANIZED FASHION.
- THE PLANS ASSUME THAT THE LAYOUT AND STAKING WILL BE ACCOMPLISHED USING TOTAL STATIONING / DIGITAL METHODS. ANY INFORMATION PROVIDED IS INTENDED TO SUPPORT INFORMATION ALREADY CONTAINED IN CAD FILES USED FOR DOCUMENTING LAYOUT AND STAKING. CAD FILES DELINEATING ALL GRADING AND HARDSCAPE ELEMENTS SHOWN IN THESE PLANS CAN BE PROVIDED TO THE CONTRACTOR UPON REQUEST.
- CONTRACTOR SHALL EMPLOY SKILLED PERSONNEL AND USE EQUIPMENT NECESSARY TO ENSURE THAT ALL WORK IS PROFESSIONALLY AND PROPERLY INSTALLED AND IN FULL COMPLIANCE WITH THE PLANS AND DETAILS.
- CONTRACTOR SHALL COMPLY WITH STATE AND LOCAL LAWS AND REGULATIONS REGARDING NOTIFICATION OF EXISTING GAS AND OIL PIPELINE COMPANY OWNERS. EVIDENCE OF SUCH NOTICE SHALL BE FURNISHED TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH WORK.

PLANTING NOTES

- STAKE ALL BED LINES AND TREE LOCATIONS FOR THE LANDSCAPE ARCHITECT'S REVIEW PRIOR TO INSTALLATION. ALL PLANTING PROCEDURES ARE SUBJECT TO THE REVIEW OF THE LANDSCAPE ARCHITECT AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES FOUND AT NO ADDITIONAL COST TO THE OWNER.
- SECURE PLANT MATERIAL AS SPECIFIED ON PLANS. IN THE EVENT THAT PLANT MATERIALS SPECIFIED ARE NOT AVAILABLE, CONTACT LANDSCAPE ARCHITECT FOR APPROVED SUBSTITUTIONS. NO SUBSTITUTIONS FOR PLANT MATERIALS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT.
- VERIFY THAT ALL PLANTING PRODUCTS, PLANT MATERIAL, AND PLANT QUANTITIES DELIVERED TO THE SITE MATCH WHAT IS INDICATED ON THE PLANS AND SPECIFICATIONS.
- PROTECT ALL PLANT MATERIAL DURING DELIVERY TO PREVENT DAMAGE TO ROOT BALLS, TRUNKS, BRANCHES AND THE DESICCATION OF LEAVES. PROTECT ALL PLANT MATERIAL DURING SHIPPING WITH SHADE CLOTH OR SHIP WITH ENCLOSED TRANSPORT. MAINTAIN PROTECTIONS AND HEALTH OF PLANT MATERIAL STORED ON SITE. HANDLE ALL TREES WITH NYLON STRAPS. NO CHAINS OR CABLES WILL BE ALLOWED. REMOVE UNACCEPTABLE PLANT MATERIAL IMMEDIATELY FROM THE SITE.
- ALL PLANT MATERIAL SHALL BE NURSERY GROWN, WELL FORMED, TRUE TO SPECIES, HARDENED OFF WITH VIGOROUS ROOT SYSTEMS, FULL CROWN AND CANOPIES, AND FREE FROM DISEASE, PESTS AND INSECTS, AND DEFECTS SUCH AS KNOTS, SUN SCALD, WINDBURN, LEAF DISCOLORATION, IRREGULAR BRANCHING OR INJURIES.
- ALL PLANT HEIGHTS, SPREADS, CONTAINER SIZES, AND ROOT BALLS SIZES SHALL CONFORM TO THE SIZE STANDARDS SET FORTH IN ANSI Z-60.1 "AMERICAN STANDARDS FOR NURSERY STOCK".
- ALL PLANT MATERIAL DELIVERED TO THE SITE IS SUBJECT TO THE REVIEW OF THE LANDSCAPE ARCHITECT BEFORE, DURING AND AFTER INSTALLATION.
- PROVIDE PLANT SAMPLES OR PHOTOGRAPHS OF EACH PLANT SPECIFIED TO THE LANDSCAPE ARCHITECT FOR COMPLIANCE REVIEW PRIOR TO INSTALLATION.
- TEST FILL ALL TREE AND PLANTING PITS WITH WATER, PRIOR TO PLANTING, TO ASSURE PROPER SOIL PERCOLATION. PITS WHICH DO NOT ADEQUATELY DRAIN SHALL BE FURTHER EXCAVATED TO A DEPTH SUFFICIENT FOR DRAINAGE TO OCCUR AND/OR BACKFILLED WITH SUITABLE DRAINAGE GRAVEL. NO ALLOWANCES SHALL BE MADE FOR PLANT MATERIAL LOSS DUE TO IMPROPER DRAINAGE. CONTRACTOR SHALL REPLACE LOST PLANT MATERIAL WITH SAME SIZE AND SPECIES AT NO ADDITIONAL COST TO OWNER.
- ALL PLANT MATERIALS, INCLUDING RELOCATED PLANT MATERIAL, SHALL BE PLANTED IN A PROFESSIONAL MANNER TYPICAL TO THE INDUSTRY STANDARDS OF THE AREA TO ASSURE COMPLETE SURVIVABILITY OF ALL INSTALLED PLANT MATERIALS AS WELL AS TO PROVIDE AN AESTHETICALLY APPROVED PROJECT. CONTRACTOR SHALL REFER TO THE PLANTING DETAILS FOR MINIMUM SIZE AND WIDTH OF PLANTING PITS AND BEDS, GUYING AND STAKING, MULCHING, AND OTHER PLANTING REQUIREMENTS.
- NO PLANTS SHALL BE PLANTED WITH IN A 2'-0" RADIUS (CLEARANCE ZONE) AROUND ALL DRAINS LOCATED IN LANDSCAPE BEDS. CONTRACTOR SHALL MULCH AREA AROUND ALL DRAINS LOCATED IN LANDSCAPE BEDS. REFER TO ENGINEERING DRAWINGS FOR ALL DRAIN LOCATIONS.
- LAWN AREAS TO PROVIDE A SMOOTH AND CONTINUAL GRADE.
- PLANTING BEDS SHALL HAVE A MINIMUM OF 3" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH.
- ALL PLANTING AREAS SHALL BE WEED FREE PRIOR TO PLANTING INSTALLATION.
- REMOVE ALL PLANTING AND LANDSCAPE DEBRIS FROM THE PROJECT SITE AND SWEEP AND WASH CLEAN ALL PAVED AND FINISHED SURFACES AFFECTED BY THE LANDSCAPE INSTALLATION.
- REFER GENERAL NOTES FOR ADDITIONAL INSTRUCTIONS.

TREE PROTECTION NOTES

- ALL TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY AN APPROVED METHOD.
- TREE REMOVAL SHALL INCLUDE THE TREE STUMPS UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL REMOVE ALL DOWNED TREE DEBRIS FROM THE SITE AND DISPOSED OF PROPERLY.
- ALL AREAS WITHIN THE DRIPLINES OF EXISTING TREES SHALL REMAIN FREE OF CONSTRUCTION MATERIALS, DEBRIS, VEHICLES AND FOOT TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING, BARRICADES AND/OR OTHER SUITABLE GUARDS OUTSIDE DRIP LINE (OUTSIDE PERIMETER OF BRANCHES) TO PROTECT TREES AND PLANT MATERIAL TO REMAIN. NO WORK SHALL BE PERFORMED WITHIN THE DRIPLINE OF EXISTING TREES UNLESS INDICATED. ALL WORK INDICATED TO BE PERFORMED WITHIN THE DRIPLINE OF TREES SHALL BE DONE BY HAND AND CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO THE TREE ROOTS.
- SILT FENCING SHALL BE LOCATED OUTSIDE OF ANY TREE PROTECTION FENCING.
- SEE TREE PROTECTION DETAIL FOR MORE INFORMATION.

LAYOUT NOTES

- ALL DIMENSIONS SHOWN ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED
- DO NOT SCALE DRAWINGS. UTILIZE DIMENSIONS INDICATED ON THE PLANS. ALL DIMENSIONING SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION WITH THE LANDSCAPE ARCHITECT.
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT, FACE OF WALL, OR FACE OF CURB UNLESS OTHERWISE NOTED.
- WALKWAYS AND HARDSCAPE ELEMENTS INDICATED AS CURVILINEAR SHALL HAVE SMOOTH CONTINUOUS CURVES.
- UNLESS INDICATED OTHERWISE, ALL WALKWAYS ABUT AT 90 DEGREE ANGLES.
- ALL CONCRETE SCORING SHALL BE PARALLEL, PERPENDICULAR OR TANGENT TO ADJACENT IMPROVEMENTS UNLESS OTHERWISE NOTED.
- LAYOUT ALL CONSTRUCTION LINES AND VERIFY LAYOUT WITH THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING ANY CONSTRUCTION WORK.
- RADII OF CURBS ARE ESTIMATED FROM SURVEY OR BASE DATA. THE CONTRACTOR SHALL MAKE ALL MODIFICATIONS NECESSARY TO ASSURE EXISTING AND NEW CURBS MEET FLUSH, EVEN AND SMOOTHLY.
- PROVIDE ISOLATION JOINTS WHERE CONCRETE PAVING OR PAVING BASE MEETS A FIXED STRUCTURE (EXISTING OR PROPOSED).
- PROVIDE FLUSH CONDITIONS AT JUNCTURE OF ALL WALKWAYS AND DOOR THRESHOLDS.
- REFER GENERAL NOTES FOR ADDITIONAL INSTRUCTIONS.
- SEE METHODS OF PAYMENT FOR CONSTRUCTION REQUIREMENTS, MATERIALS AND EXECUTION.
- BARRIER FREE RAMPS, PARKING AND SIGNAGE MUST MEET CURRENT MDOT STANDARDS.
- SEE ADDITIONAL CIVIL PLANS FOR DEMOLITION, GRADES AND VEHICULAR PAVEMENT.
- CLAY PAVER WALKS TO BE MINIMUM 6 FT. WIDE UNLESS OTHERWISE NOTED.
- LIGHT POLES SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS.
- REPORT ANY DISCREPANCIES BETWEEN DIMENSIONED LAYOUT AND ACTUAL FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT.
- VERIFY THAT ALL UNDERGROUND UTILITIES, SLEEVES, DRAINTILE AND WIRING HAS BEEN PLACED, TESTED AND APPROVED PRIOR TO INSTALLING BACKFILL AND/OR PAVEMENT.
- LAYOUT TO BE DONE BY REGISTERED SURVEYOR, REVIEWED BY THE LANDSCAPE ARCHITECT AND ADJUSTED ON SITE (IF REQUIRED) PRIOR TO INSTALLATION WITHOUT ADDITIONAL COST TO OWNER.

IRRIGATION NOTES

- CONTRACTOR SHALL DESIGN THE IRRIGATION SYSTEM TO PROVIDE HEAD TO HEAD COVERAGE OF ALL LANDSCAPE AREAS AS INDICATED ON THE PLANS (AT A MINIMUM) AND SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL AS DESCRIBED IN THE SPECIFICATIONS.
- ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.
- WHERE NEW IRRIGATION SYSTEM CONNECTS TO ANY EXISTING SYSTEM, ALL NEW MATERIALS (HEADS, VALVES, NOZZLES, ETC.) SHALL BE OF THE SAME MANUFACTURER AS THE EXISTING SYSTEM. CONTRACTOR TO COORDINATE WITH CITY AS TO THE EXTENTS AND MANUFACTURER OF THE EXISTING IRRIGATION SYSTEM WHERE NEW CONNECTS TO EXISTING.
- BEFORE ANY WORK COMMENCES, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND OTHER CONTRACTORS TO ENABLE WORK TO PROCEED AS QUICKLY AS POSSIBLE.
- CONTRACTOR SHALL COORDINATE THE AVAILABILITY OF POWER WITH DTE PRIOR TO INSTALLATION OF THE IRRIGATION SYSTEM.
- ALL WIRING AND BACKFLOW PREVENTION TO BE PER LOCAL CODE AND AS DESCRIBED IN THE SPECS. ALL IRRIGATION WIRING SHALL BE ON SEPARATE CIRCUIT FROM SITE LIGHTING. CONTRACTOR SHALL COORDINATE ALL NECESSARY INSPECTIONS PER LOCAL CODE.
- INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH MINIMUM 12" OF COVER BASED ON FINISH GRADES.
- ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTIONS AND BE IN A VALVE OR SPLICE BOX.
- ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED DIRECT BURY.
- PROVIDE BLOWOUT FITTINGS ON EACH LINE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.



REVISIONS	DATE	DESCRIPTION

DATE	PROJ NUMBER	ENG	PROJ LEAD	CADD	COUNTY	CITY/TOWNSHIP	SCALE	VERT DATUM	NAV/DOB
01/11/2023	81115-R-003	KAW	JUH	PR	OAKLAND	FARMINGTON	1"=10'	NAVD83	

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
LANDSCAPE NOTES



Know what's below.
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DECIDUOUS TREES



RED SUNSET MAPLE

SHRUBS



ROYAL BURGUNDY BARBERRY



BLUE CHIP JUNIPER



GRO-LOW FRAGRANT SUMAC



APRICOT DRIFT ROSE



GOLDFLAME SPIREA

PERENNIALS, ORNAMENTAL GRASSES & GROUND COVER



ART'S PRIDE CONEFLOWER



WALKER'S LOW CATMINT



DWARF FOUNTAIN GRASS



PINK IMPRESSION DARWIN TULIP



BOWLES' COMMON PERIWINKLE

REVISIONS:

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	VERT DATUM
	0111-15-003	KAW	JUH	PR	OAKLAND	FARMINGTON	1:1	NADES
								NA/08

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
PLANT CHARACTER IMAGES



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HARDSCAPE MATERIALS



RUNNING BOND BRICK PAVERS WITH 'ARGYLE' STRIPING (SE CORNER OF GRAND RIVER AVE. AND LIBERTY ST.)

ARGYLE STRIPING:
-ENDICOTT CLAY PRODUCTS: MANGANESE IRONSPOT

FIELD:
-PACIFIC CLAY BEAR PATH PAVER: MEDIUM IRONSPOT

NOTE:
REFER TO NOTES, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION



BRICK PAVER SOLDIER COURSE (GRAND RIVER PLAZA)

SOLDIER COURSE:
-ENDICOTT CLAY PRODUCTS: MANGANESE IRONSPOT

NOTE:
REFER TO NOTES, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION



HERRINGBONE BRICK PAVER CROSSWALK (OAKLAND ST. & FARMINGTON ST. CROSSWALK, ON WEST SIDE)

FIELD:
-PACIFIC CLAY BEAR PATH PAVER: MEDIUM IRONSPOT

NOTE:
REFER TO NOTES, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION



SOLDIER COURSE ADJACENT TO HERRINGBONE BRICK PAVER CROSSWALK (OAKLAND ST. & FARMINGTON ST. CROSSWALK, ON WEST SIDE)

SOLDIER COURSE:
-ENDICOTT CLAY PRODUCTS: MANGANESE IRONSPOT

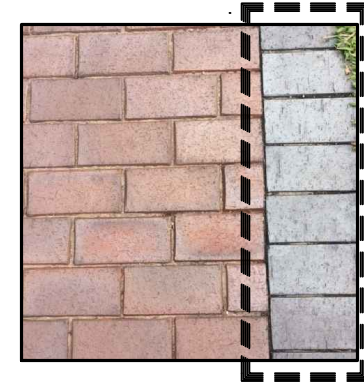
NOTE:
REFER TO NOTES, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION



RUNNING BOND BRICK PAVERS (OAKLAND ST. & FARMINGTON ST. PLAZAS ON WEST SIDE OF INTERSECTION)

FIELD:
-PACIFIC CLAY BEAR PATH PAVER: MEDIUM IRONSPOT

NOTE:
REFER TO NOTES, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION



SOLDIER COURSE ADJACENT TO RUNNING BOND BRICK PAVERS (OAKLAND ST. & FARMINGTON ST. PLAZAS ON WEST SIDE OF INTERSECTION)

SOLDIER COURSE:
-ENDICOTT CLAY PRODUCTS: MANGANESE IRONSPOT

NOTE:
REFER TO NOTES, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION



TRUNCATED DOME BRICK PAVERS (OAKLAND ST. & FARMINGTON ST. PLAZAS ON WEST SIDE OF INTERSECTION)

FIELD:
-ENDICOTT CLAY PRODUCTS: MANGANESE IRONSPOT WITH DETECTABLE WARMING DOMES PER ADA STANDARDS

NOTE:
REFER TO NOTES, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION

SITE FURNISHING MATERIALS



VICTOR STANLEY MODEL SD-35 BLACK LITTER RECEPTACLE

NOTE:
REFER TO NOTES, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION



VICTOR STANLEY MODEL SD-35 BLACK RECYCLE RECEPTACLE

NOTE:
REFER TO NOTES, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION



BOLLARD: FAIRWEATHER SF, MODEL CU-CB-B CAST DUCTILE IRON BOLLARD WITH NON-STANDARD BREAKAWAY IMPACT MOUNTING CHAIN: CREATIVE PIPE

NOTE:
REFER TO NOTES, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION

LIGHTING MATERIALS (SEE ELECTRICAL PLANS)



FARMINGTON STANDARD STREETSCAPE LED LIGHT POLE, SEE ELECTRICAL PLANS

ARCHITECTS ENGINEERS PLANNERS
34000 Plymouth Road
Livonia, MI 48150
P (734) 522-6711 | F (734) 522-6427
OHM-ADVISORS.COM

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DATE	PROJ NUMBER	ENG	PROJ LEAD	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	VERT DATUM
01/11/15-03/03	81115-003	KAW	JUH	PR	OAKLAND	FARMINGTON	1:1	NAVD83

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
MATERIAL CHARACTER IMAGES

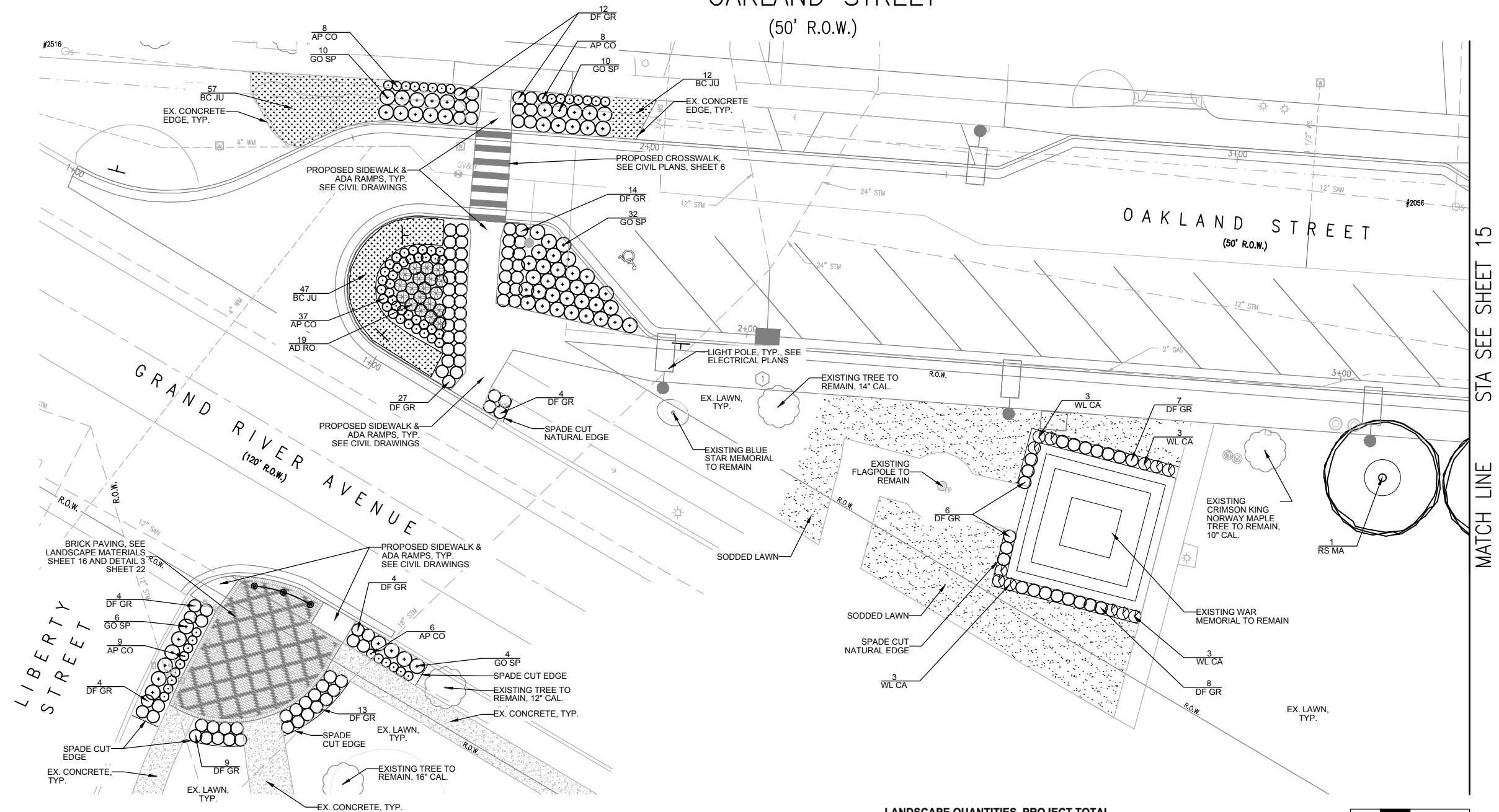


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OAKLAND STREET (50' R.O.W.)



MATCH LINE STA SEE SHEET 15

OAKLAND STREET PLANT LIST

PLANT LIST-TREES					
CODE	COMMON NAME	LATIN NAME	SIZE	COND.	SPACING QUANTITY
RS MA	RED SUNSET MAPLE	<i>Acer rubrum 'Red Sunset'</i>	2"	B&B	As Per Plan 4

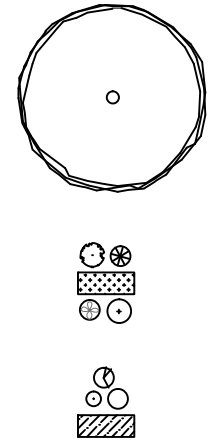
PLANT LIST-SHRUBS					
CODE	COMMON NAME	LATIN NAME	SIZE	COND.	SPACING QUANTITY
RB BA	ROYAL BURGUNDY BARBERRY	<i>Berberis thunbergii 'Gentry'</i>	#3	CONT.	24" O.C. 80
BC JU	BLUE CHIP JUNIPER	<i>Juniperus horizontalis 'Blue Chip'</i>	#2	CONT.	24" O.C. 116
GL SU	GRO-LOW FRAGRANT SUMAC	<i>Rhus aromatica 'Gro-Low'</i>	#2	CONT.	30" O.C. 20
AD RO	APRICOT DRIFT ROSE	<i>Rosa 'Meimirote'</i>	#2	CONT.	24" O.C. 19
GO SP	GOLDPLANE SPIREA	<i>Spiraea x bumalda 'Goldflame'</i>	#2	CONT.	30" O.C. 56

PLANT LIST-PERENNIALS, ORNAMENTAL GRASSES & SPRING BULBS					
CODE	COMMON NAME	LATIN NAME	SIZE	COND.	SPACING QUANTITY
AP CO	ART'S PRIDE CONEFLOWER	<i>Echinacea 'Art's Pride'</i>	1 GAL.	CONT.	18" O.C. 66
WL CA	WALKER'S LOW CATMINT	<i>Nepeta x faassenii 'Walker's Low Catmint'</i>	1 GAL.	CONT.	24" O.C. 83
DF GR	DWARF FOUNTAIN GRASS	<i>Pennisetum alopecuroides 'Hamel'</i>	1 GAL.	CONT.	24" O.C. 196
PI TU	PINK IMPRESSION DARWIN TULIP	<i>Tulipa darwin 'Pink Impression'</i>	BULB	100-PACK	8" O.C. 12
BC PE	BOWLES' COMMON PERIWINKLE	<i>Vinca minor 'Bowlesii'</i>	PLUG	38-CELL FLAT	12" O.C. 8

NOTE: THE ABOVE PLANT LIST QUANTITIES REFLECT PROJECT TOTALS, NOT SHEET TOTALS.

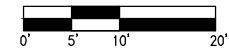
FOR PLANTING NOTES, REFER TO SHEET 11.

PLANT LEGEND



LANDSCAPE QUANTITIES, PROJECT TOTAL

TOTAL	UNIT	DESCRIPTION
100	Sft	Brick Paving, Pedestrian, ADA Truncated Domes
348	Sft	Brick Paving, Pedestrian, Running Bond
458	Sft	Brick Paving, Pedestrian, Running Bond (with 'Argyle' Stripin
112	Sft	Brick Paving, Vehicular, Herringbone Crosswalk
10	Ft	_Chain Between Bollards
3	Ea	_Break Away Bollards
1	LSUM	Watering and Cultivating, First Season, Min
1	LSUM	Watering and Cultivating, Second Season, Min
4	Ea	<i>Acer rubrum</i> , 2 inch
116	Ea	<i>Juniperus horizontalis</i> 'Blue Chip', #2 cont.
196	Ea	<i>Pennisetum alopecuroides</i> 'Hamel', #1 cont.
20	Ea	<i>Rhus aromatica</i> , #2 cont.
80	Ea	<i>Berberis thunbergii</i> 'Gentry', #3 cont.
68	Ea	<i>Echinacea</i> 'Art's Pride', #1 cont.
1	Ea	Litter Receptacle, Victor Stanley: Model SD-35, Black
83	Ea	<i>Nepeta x faassenii</i> 'Walker's Low Catmint', #1 cont.
1	Ea	Recycle Receptacle, Victor Stanley: Model SD-35, Black
19	Ea	<i>Rosa</i> 'Meimirote', #2 cont.
56	Ea	<i>Spiraea x bumalda</i> 'Goldflame', #2 cont.
12	Ea	<i>Tulipa darwin</i> 'Pink Impression', 100-Pack of Bulbs
8	Ea	<i>Vinca minor</i> 'Bowlesii', 38-Cell Flat
1	LSUM	Irrigation
219	Syd	Sodding
113	Cyd	_Planting Mix, 12 Inch
29	Cyd	Mulch, 3 inch
25	Cyd	Topsoil Surface, Furn, 4 inch
1	LSUM	Tree Protection Fencing
1	LSUM	ATT Relocate (work done by others)



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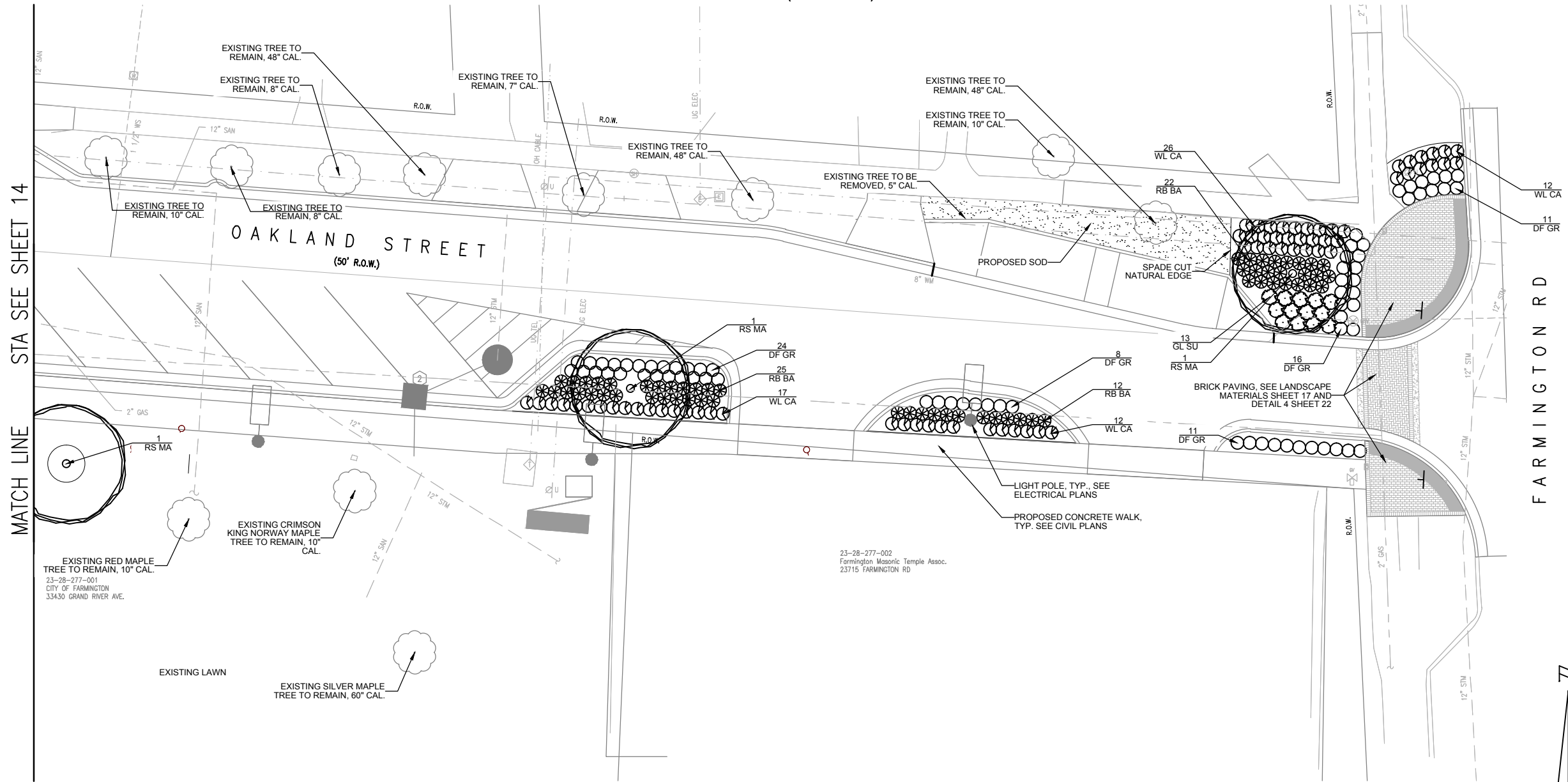
NO.	DATE	DESCRIPTION

CITY OF FARMINGTON
 OAKLAND STREET RECONSTRUCTION
 PLANTING PLAN

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OAKLAND STREET (50' R.O.W.)



OAKLAND STREET PLANT LIST						
PLANT LIST: TREES						
CODE	COMMON NAME	LATIN NAME	SIZE	COND.	SPACING	QUANTITY
RS MA	RED SUNSET MAPLE	<i>Acer rubrum 'Red Sunset'</i>	2"	B&B	As Per Plan	4

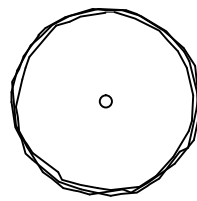
PLANT LIST: SHRUBS						
CODE	COMMON NAME	LATIN NAME	SIZE	COND.	SPACING	QUANTITY
RB BA	ROYAL BURGUNDY BARBERRY	<i>Berberis thunbergii 'Gentry'</i>	#3	CONT.	24" O.C.	80
BC JU	BLUE CHIP JUNIPER	<i>Juniperus horizontalis 'Blue Chip'</i>	#2	CONT.	24" O.C.	116
GL SU	GRO-LOW FRAGRANT SUMAC	<i>Rhus aromatica 'Gro-Low'</i>	#2	CONT.	30" O.C.	20
AD RO	APRICOT DRIFT ROSE	<i>Rosa 'Meimurte'</i>	#2	CONT.	24" O.C.	19
GO SP	GOLDFLAME SPIREA	<i>Spiraea x bumalda 'Goldflame'</i>	#2	CONT.	30" O.C.	56

PLANT LIST: PERENNIALS, ORNAMENTAL GRASSES & SPRING BULBS						
CODE	COMMON NAME	LATIN NAME	SIZE	COND.	SPACING	QUANTITY
AP CO	ART'S PRIDE CONEFLOWER	<i>Echinacea 'Art's Pride'</i>	1 GAL.	CONT.	18" O.C.	68
WL CA	WALKER'S LOW CATMINT	<i>Nepeta x faassenii 'Walker's Low Catmint'</i>	1 GAL.	CONT.	24" O.C.	83
DF GR	DWARF FOUNTAIN GRASS	<i>Pennisetum alopecuroides 'Hameln'</i>	1 GAL.	CONT.	24" O.C.	196
PI TU	PINK IMPRESSION DARWIN TULIP	<i>Tulipa darwin 'Pink Impression'</i>	BULB	100-PACK	6" O.C.	12
BC PE	BOWLES' COMMON PERIWINKLE	<i>Vinca minor 'Bowles'</i>	PLUG	38-CELL FLAT	12" O.C.	8

NOTE: THE ABOVE PLANT LIST QUANTITIES REFLECT PROJECT TOTALS, NOT SHEET TOTALS.

FOR PLANTING NOTES, REFER TO SHEET 11.

PLANT LEGEND



TREES



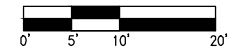
SHRUBS



PERENNIALS, ORNAMENTAL GRASSES, GROUNDCOVER & SPRING BULBS

LANDSCAPE QUANTITIES, PROJECT TOTAL

TOTAL	UNIT	DESCRIPTION
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REVISIONS:

DATE

PROJ. NUMBER

SCALE

CITY/TOWNSHIP

COUNTY

DATE

PROJ. NUMBER

SHEET

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
PLANTING PLAN

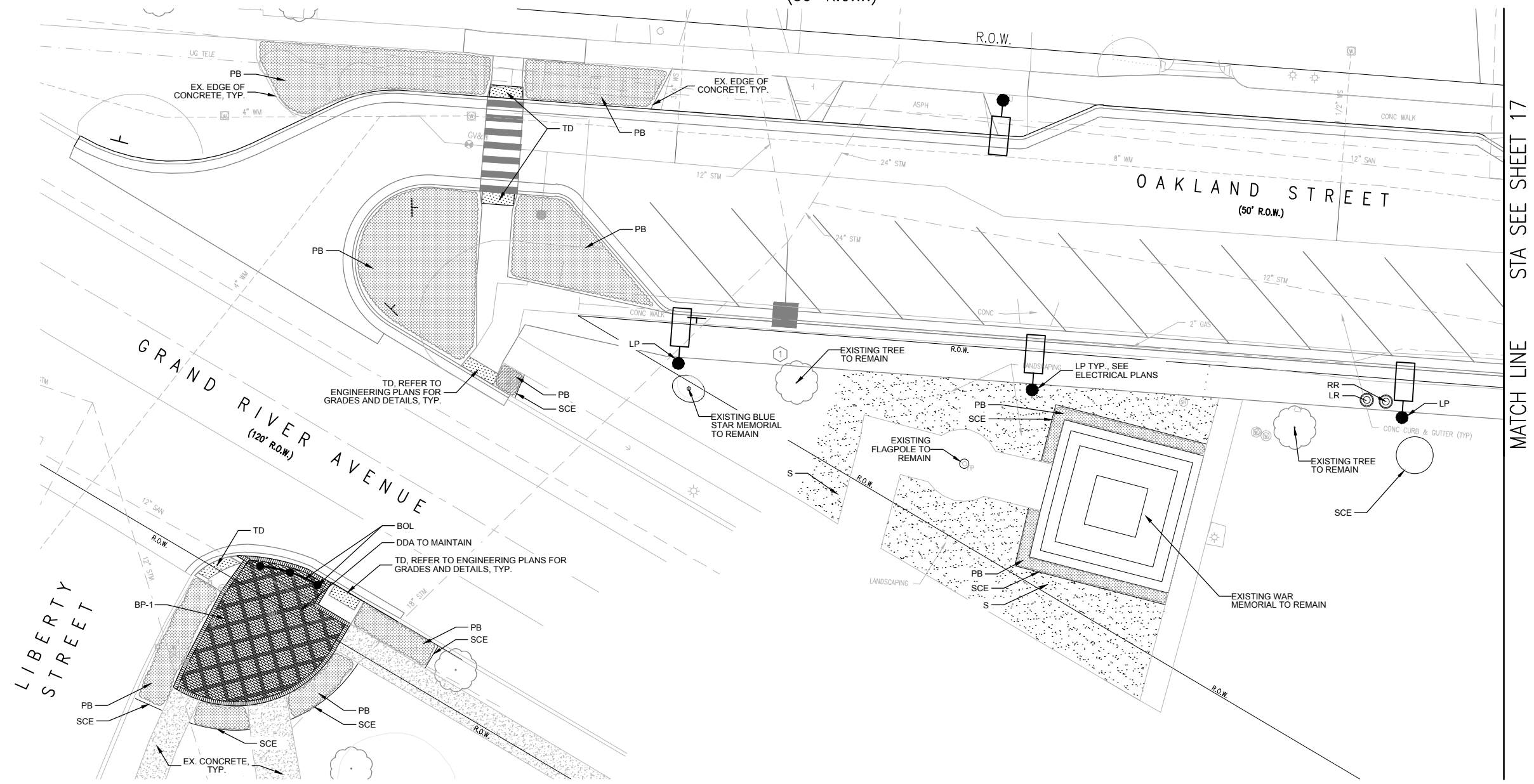


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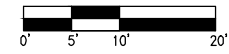
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OAKLAND STREET (50' R.O.W.)



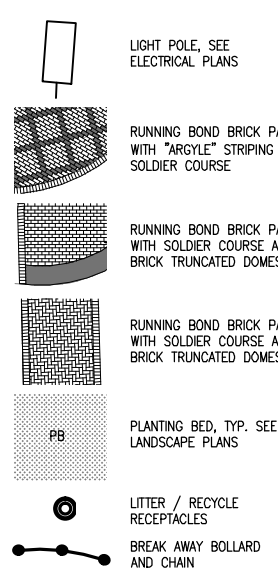
MATCH LINE STA SEE SHEET 17



OAKLAND STREET MATERIALS LIST		
CODE	ITEM	NOTES
BOL	BREAK AWAY BOLLARD AND CHAIN	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
BP-1	BRICK PAVING, PEDESTRIAN, RUNNING BOND (WITH 'ARGYLE' STRIPING)	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
BP-2	BRICK PAVING, PEDESTRIAN, RUNNING BOND	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
BP-3	BRICK PAVING, VEHICULAR, HERRINGBONE CROSSWALK	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
BP-4	BRICK PAVING, PEDESTRIAN, ADA TRUNCATED DOMES	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
LP	LIGHT POLE	SEE ELECTRICAL PLANS, SHEETS 24-26
LR	LITTER RECEPTACLE, VICTOR STANLEY: MODEL SD-35, BLACK	SEE LANDSCAPE DETAIL SHEET 23
PB	PLANTING BED	SEE PLANTING PLANS, SHEET 14-15
RR	RECYCLE RECEPTACLE, VICTOR STANLEY: MODEL SD-35, BLACK	SEE LANDSCAPE DETAIL SHEET 23
SCE	SPADE CUT EDGE	SEE LANDSCAPE DETAIL SHEET 20
S	SODDING	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
TD	TRUNCATED DOMES	SEE ENGINEERING PLANS

FOR MATERIALS NOTES, REFER TO SHEET 11.

MATERIALS LEGEND



LANDSCAPE QUANTITIES, PROJECT TOTAL

TOTAL	UNIT	DESCRIPTION
100	Sft	Brick Paving, Pedestrian, ADA Truncated Domes
348	Sft	Brick Paving, Pedestrian, Running Bond
458	Sft	Brick Paving, Pedestrian, Running Bond (with 'Argyle' Striping)
112	Sft	Brick Paving, Vehicular, Herringbone Crosswalk
10	Ft	_Chain Between Bollards
3	Ea	_Break Away Bollards
1	LSUM	Watering and Cultivating, First Season, Min
1	LSUM	Watering and Cultivating, Second Season, Min
4	Ea	Acer rubrum, 2 inch
116	Ea	Juniperus horizontalis 'Blue Chip', #2 cont.
196	Ea	Pennisetum alopecuroides 'Hamelin', #1 cont.
20	Ea	Rhus aromatica, #2 cont.
80	Ea	Berberis thunbergii 'Gentry', #3 cont.
68	Ea	Echinacea 'Art's Pride', #1 cont.
1	Ea	Litter Receptacle, Victor Stanley: Model SD-35, Black
83	Ea	Nepeta x faassenii 'Walker's Low Catmint', #1 cont.
1	Ea	Recycle Receptacle, Victor Stanley: Model SD-35, Black
19	Ea	Rosa 'Meimiroto', #2 cont.
56	Ea	Spirea x bumalda 'Goldflame', #2 cont.
12	Ea	Tulipa darwin 'Pink Impression', 100-Pack of Bulbs
8	Ea	Vinca minor 'Bowlesii', 38-Cell Flat
1	LSUM	Irrigation
219	Syd	Sodding
113	Cyd	_Planting Mix, 12 Inch
29	Cyd	Mulch, 3 inch
25	Cyd	Topsail Surface, Furn, 4 inch
1	LSUM	Tree Protection Fencing
1	LSUM	ATT Relocate (work done by others)

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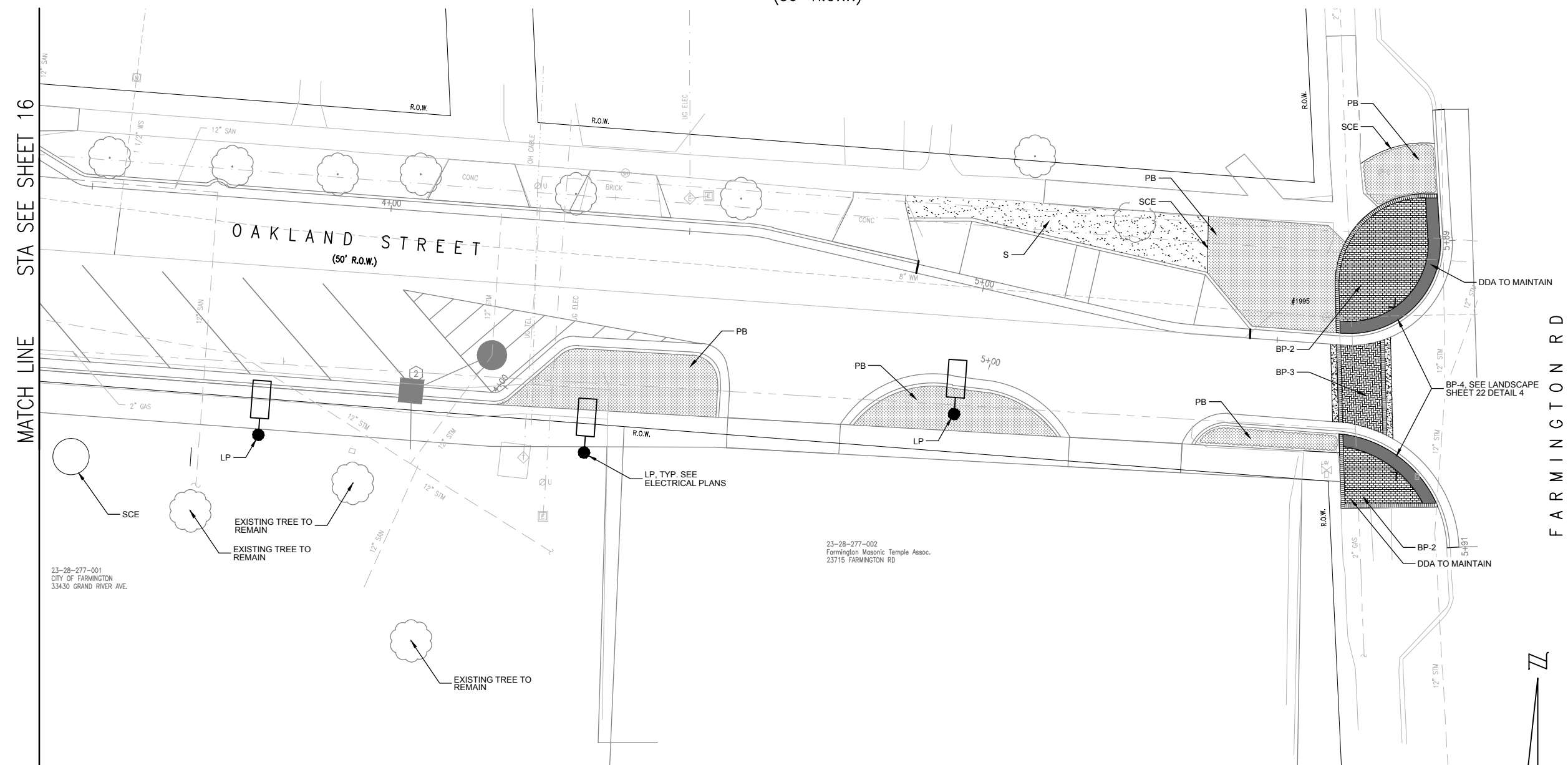
REVISIONS: _____
DATE: _____ PROJ. NO.: 011115-0030 KAW JUL 11
CITY/TOWNSHIP: FARMINGTON COUNTY: OAKLAND
SCALE: 1"=10'
VERT. DATUM: NAVD83
HOR. DATUM: NAD83

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
LANDSCAPE MATERIALS



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OAKLAND STREET (50' R.O.W.)



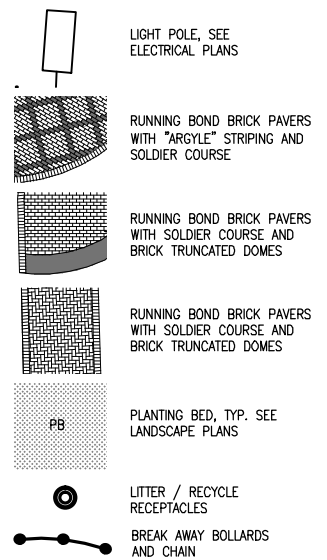
MATCH LINE STA SEE SHEET 16

FARMINGTON RD

OAKLAND STREET MATERIALS LIST		
CODE	ITEM	NOTES
BOL	BREAK AWAY BOLLARD AND CHAIN	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
BP-1	BRICK PAVING, PEDESTRIAN, RUNNING BOND (WITH 'ARGYLE' STRIPING)	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
BP-2	BRICK PAVING, PEDESTRIAN, RUNNING BOND	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
BP-3	BRICK PAVING, VEHICULAR, HERRINGBONE CROSSWALK	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
BP-4	BRICK PAVING, PEDESTRIAN, ADA TRUNCATED DOMES	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
LP	LIGHT POLE	SEE ELECTRICAL PLANS, SHEETS 24-26
LR	LITTER RECEPTACLE, VICTOR STANLEY, MODEL SD-35, BLACK	SEE LANDSCAPE DETAIL SHEET 23
PB	PLANTING BED	SEE PLANTING PLANS, SHEET 14-15
RR	RECYCLE RECEPTACLE, VICTOR STANLEY, MODEL SD-35, BLACK	SEE LANDSCAPE DETAIL SHEET 23
SCE	SPADE CUT EDGE	SEE LANDSCAPE DETAIL SHEET 20
S	SODDING	SEE LANDSCAPE DETAILS AND SPECIFICATIONS
TD	TRUNCATED DOMES	SEE ENGINEERING PLANS

FOR MATERIALS NOTES, REFER TO SHEET 11.

MATERIALS LEGEND



REVISIONS:

DATE	PROJ NUMBER	ENG	PROJ LEAD	CADD	COUNTY	CITY/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
01/11/2023	0111-15-003	KAW	JUH	PR	OAKLAND	FARMINGTON	1"=10'	NAD83	NAVD83

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
LANDSCAPE MATERIALS

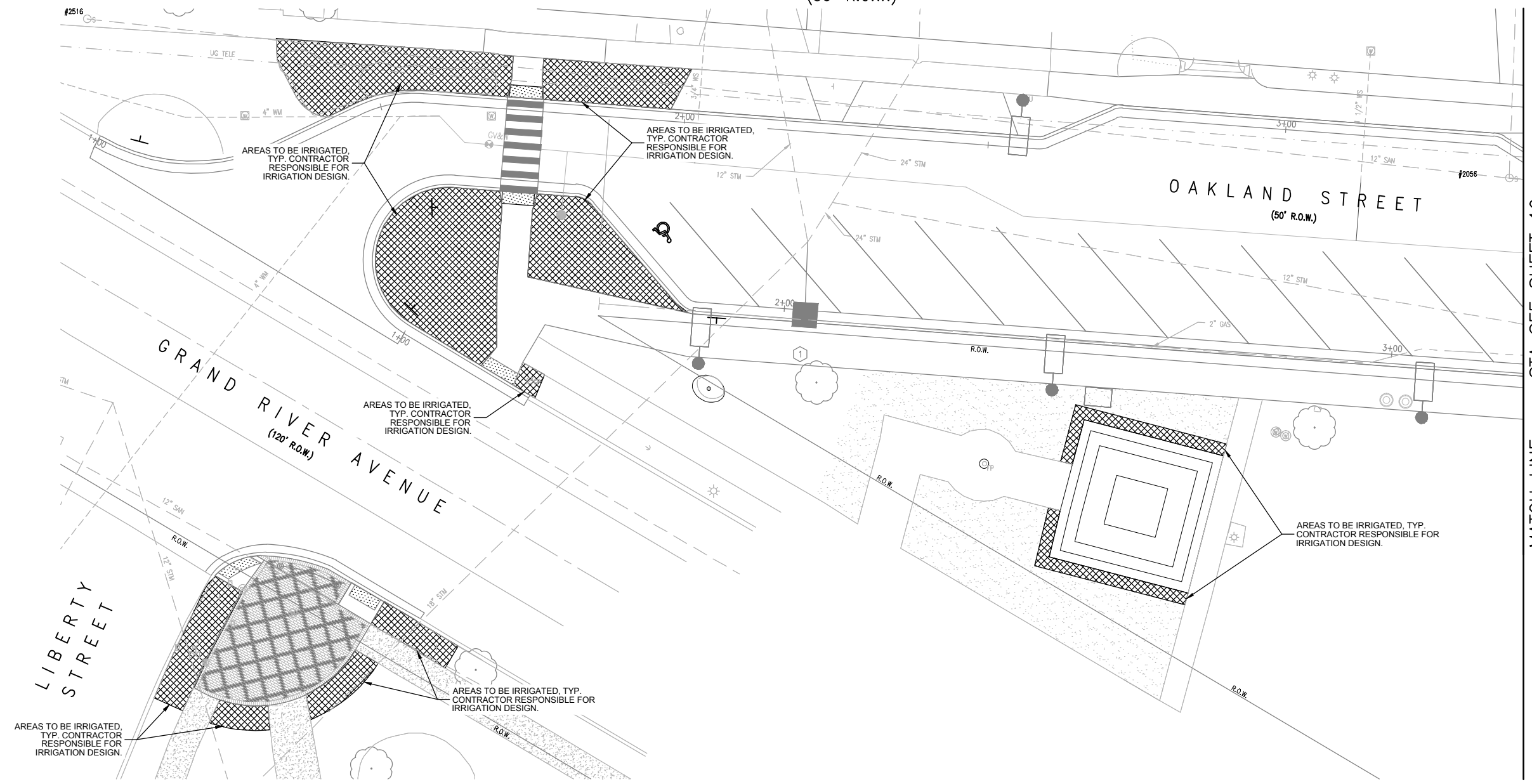


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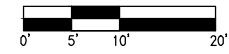
OAKLAND STREET (50' R.O.W.)



OHM
ARCHITECTS ENGINEERS PLANNERS
34000 Plymouth Road
Livonia, MI 48150
P (734) 522-6711 | F (734) 522-6427
OHM-ADVISORS.COM



MATCH LINE STA SEE SHEET 19



IRRIGATION LEGEND



IRRIGATION NOTES

1. ALL SYSTEM COMPONENTS SHALL BE OF THE SAME SUPPLIER OR AS RECOMMENDED BY THE MANUFACTURER.
2. ALL SLEEVES TO BE 4" SCHEDULE 40 PVC UNLESS OTHERWISE INDICATED ON THE PLANS. CONTRACTOR SHALL STAKE SLEEVE LOCATIONS AT BOTH ENDS.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. CONTRACTOR SHALL COORDINATE THE AVAILABILITY OF POWER WITH DTE PRIOR TO INSTALLATION OF THE IRRIGATION SYSTEM.
5. SEE IRRIGATION NOTES, SHEET 11.

REVISIONS:

DATE	PROJ NUMBER	ENG	PROJ LEAD	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	011115-003	KAW	JUL	PR	OAKLAND	FARMINGTON	1"=10'	NAD83	NAVD83

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
IRRIGATION PLANS

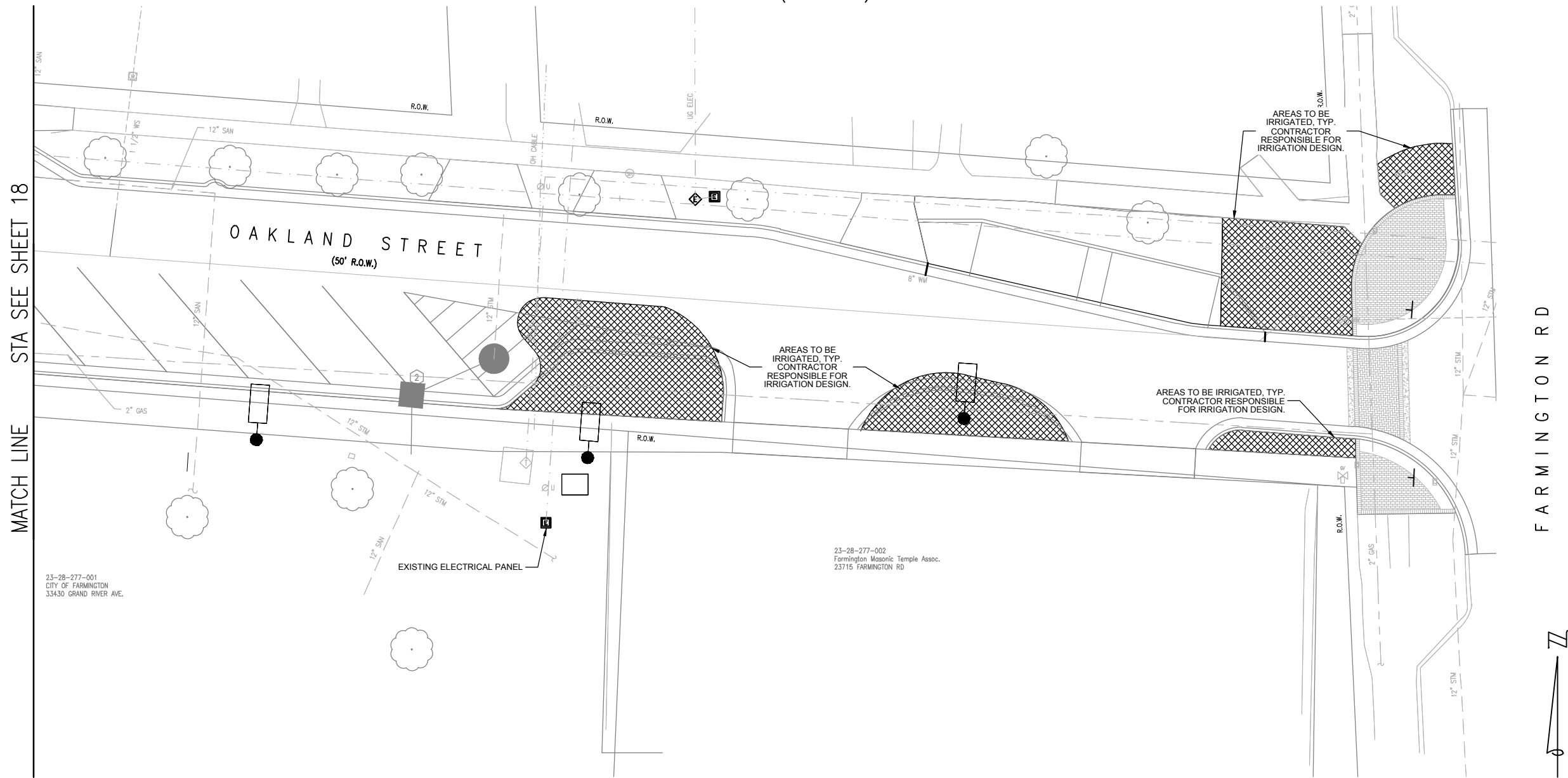


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OAKLAND STREET (50' R.O.W.)




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34000 Plymouth Road
Livonia, MI 48150
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REVISIONS:


DATE	PROJ NUMBER	ENG	PROJ LEAD	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	011115-003	KAW	JUL	PR	OAKLAND	FARMINGTON	1"=10'	NAD83	NAVD83

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
IRRIGATION PLANS

DRAWING PATH: P:\0101_0125011180030_Oakland_St_Reconstruct\Drawings\PLN_LID\Sheets\18030_IRRIGATION SHEETS.dwg, Jan 25, 2019, 4:30pm

MATCH LINE STA SEE SHEET 18

IRRIGATION LEGEND

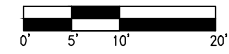
 AREAS TO BE IRRIGATED DESIGN BY OTHERS

- IRRIGATION NOTES**
- ALL SYSTEM COMPONENTS SHALL BE OF THE SAME SUPPLIER OR AS RECOMMENDED BY THE MANUFACTURER.
 - ALL SLEEVES TO BE 4" SCHEDULE 40 PVC UNLESS OTHERWISE INDICATED ON THE PLANS. CONTRACTOR SHALL STAKE SLEEVE LOCATIONS AT BOTH ENDS.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL COORDINATE THE AVAILABILITY OF POWER WITH DTE PRIOR TO INSTALLATION OF THE IRRIGATION SYSTEM.
 - SEE IRRIGATION NOTES, SHEET 11.

23-28-277-001
CITY OF FARMINGTON
33430 GRAND RIVER AVE.

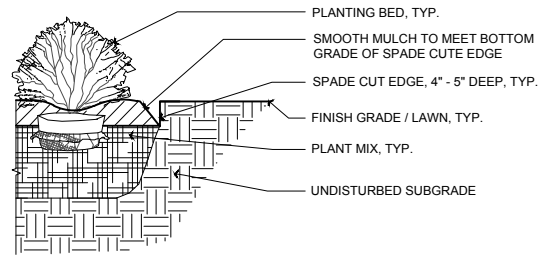
EXISTING ELECTRICAL PANEL

23-28-277-002
Farmington Masonic Temple Assoc.
23715 FARMINGTON RD.




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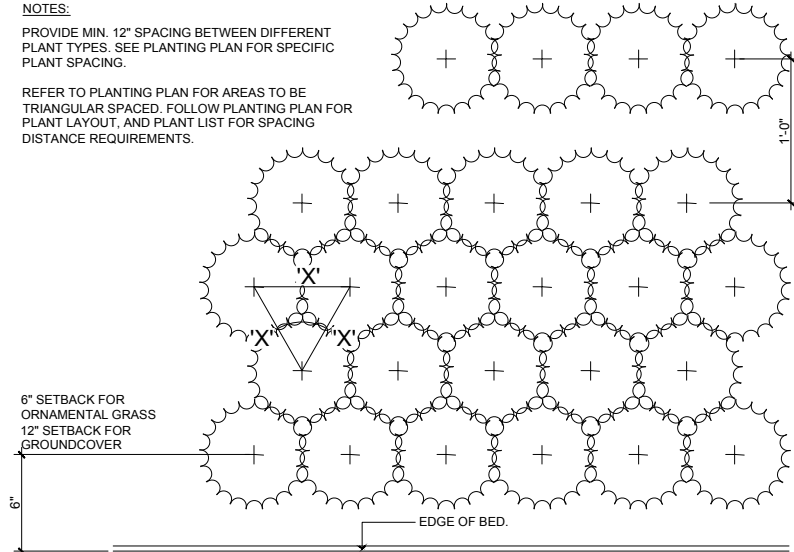


01 PLANTING BED SPADE CUT EDGE
SCALE: 1" = 1'-0"

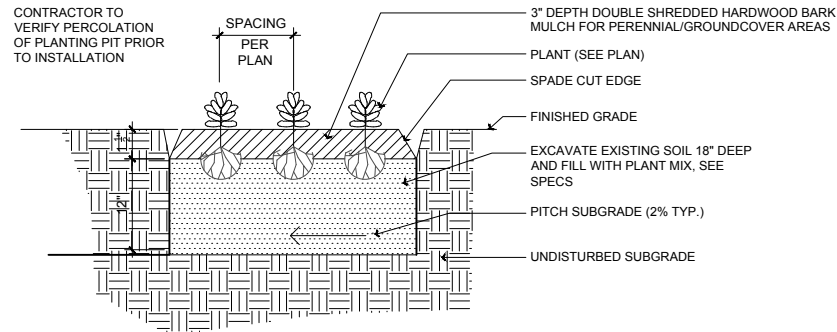
NOTES:

PROVIDE MIN. 12" SPACING BETWEEN DIFFERENT PLANT TYPES. SEE PLANTING PLAN FOR SPECIFIC PLANT SPACING.

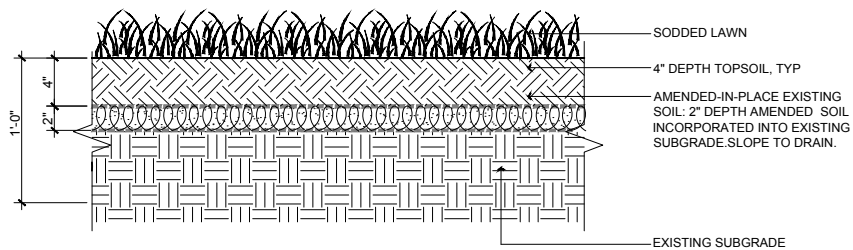
REFER TO PLANTING PLAN FOR AREAS TO BE TRIANGULAR SPACED. FOLLOW PLANTING PLAN FOR PLANT LAYOUT, AND PLANT LIST FOR SPACING DISTANCE REQUIREMENTS.



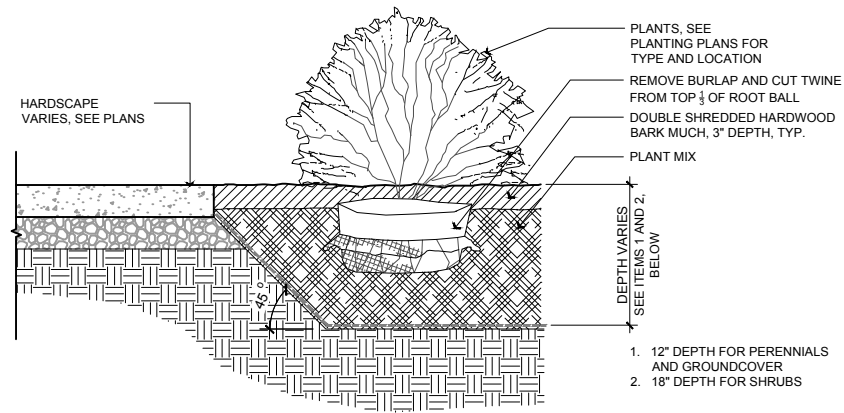
02 PLANT SPACING
SCALE: 1" = 1'-0"



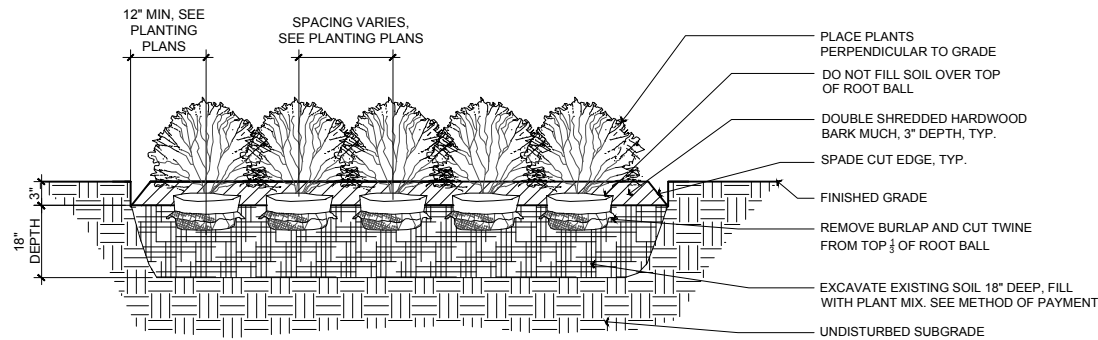
03 PERENNIAL/GROUNDCOVER/ANNUAL PLANTING DETAIL
SCALE: 1" = 1'-0"



04 SOD LAWN DETAIL
SCALE: 1 1/2" = 1'-0"



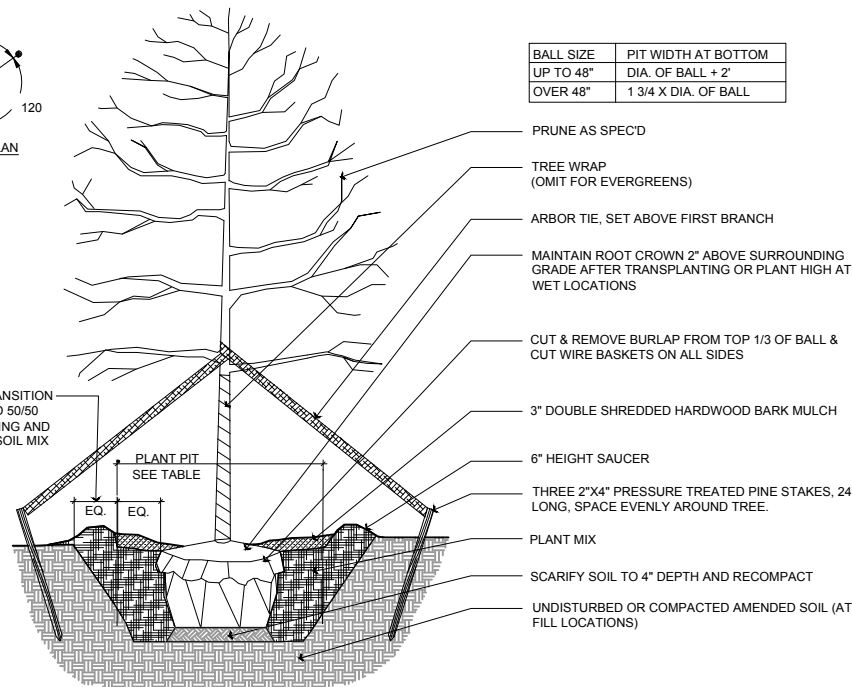
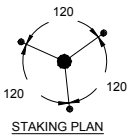
05 EXCAVATION FOR SOIL AT PAVEMENT AND STRUCTURES
SCALE: 1" = 1'-0"



06 SHRUBS / ORNAMENTAL GRASS PLANTINGS
SCALE: 1" = 1'-0"

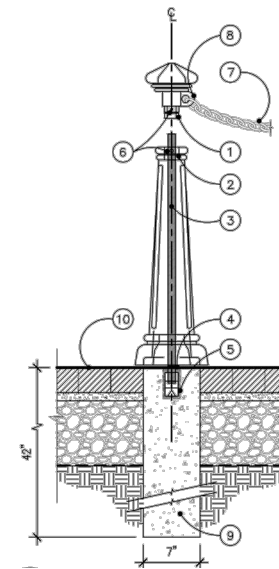
NOTES:

- CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
- FINAL TREE STAKING PLACEMENT TO BE APPROVED BY OWNER.
- DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
- MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHEN EVER POSSIBLE.
- IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN (8 IN.) INTO PLANTING HOLE.
- REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM TOP HALF OF ROOTBALL.
- SET TREE PLUMB IN PLANTING PIT.
- EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL. SET TOP OF ROOT BALL 3" ABOVE FINISH GRADE.



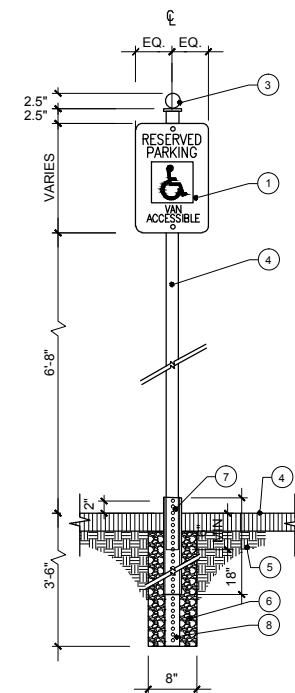
BALL SIZE	PIT WIDTH AT BOTTOM
UP TO 48" DIA. OF BALL + 2'	
OVER 48"	1 3/4 X DIA. OF BALL

07 TREE PLANTING
SCALE: 1/2" = 1'-0"



08 BREAK AWAY BOLLARD INSTALLATION DETAIL
SCALE: NO SCALE

- SCREW "ALL-THREAD" ROD INTO BOTTOM OF FINIAL
- 2" Ø HOLE IN CENTER OF BOLLARD
- 3/4" "ALL-THREAD" ROD
- BREAK-AWAY GROOVE MACHINED AT STREET LEVEL ON "ALL-THREAD" ROD
- DRILL 1 1/4" Ø HOLE MIN. X 3 1/2" DEEP INTO CONCRETE. INSTALL DOUBLE END RAWL & THREAD ROD INTO RAWL.
- HOLE FOR 3/8" SET SCREWS (3 EACH)
- ZINC COATED STEEL CHAIN. VERIFY CHAIN LENGTH WITH LANDSCAPE ARCHITECT FOR DESIRED LOOP EFFECT.
- EYE BOLTS VARY PER BOLLARD. REFER TO PLAN FOR BOLLARD LOCATION.
- 7" DIA. X 3'-6" DEPTH CAST-IN-PLACE CONCRETE FOOTING.
- CLAY BRICK PAVERS - SEE TYPICAL DETAIL.



09 DECORATIVE SIGN POST AND SIGN DETAIL
SCALE: NO SCALE

- ALUMINUM SIGN PANEL PER MDT STANDARDS. SEE CIVIL DWGS FOR SIGN PLAN TYPE & LOCATIONS.
- 2" SQUARE, 1/8" THICK WALL TUBULAR STEEL SIGN POST. INSTALL (2) 3/8" DIA. HOLES ON EACH SIDE OF POST & SLEEVE.
- BALL CAP TO MATCH BALL CAPS IN RILEY PAVILION PARK.
- SURFACE VARIES - SEE PLAN
- COMPACTED SUBGRADE
- 8" 21AA CRUSHED STONE BASE. COMPACT TO 95% MOD. PROCTOR.
- 2 1/2" SQUARE, 3/16" THICK WALL TUBULAR ANCHOR SLEEVE. LEAVE (2) HOLES EXPOSED ABOVE GROUND.
- 2 1/2" SQUARE, 3/16" THICK WALL TUBULAR ANCHOR POST.

NOTES:

- BACK OF SIGN PANEL TO BE PAINTED WITH SEMI-GLOSS BLACK ENAMEL PER MANUFACTURER'S RECOMMENDATIONS.
- POST, SLEEVES, BALL CAP AND ALL PUNCHED HOLES TO BE PRIMED WITH ZINC RICH PRIMER THEN POWDER COATED SEMI-GLOSS BLACK.
- SIGNS TO BE INSTALLED IN MDT 200A OR EQUAL BREAK-AWAY SYSTEM FOOTING. SUBMIT SHOP DRAWINGS FOR REVIEW.
- SIGNS TO BE LOCATED AT BARRIER FREE SPACES PER CODE & AS INDICATED ON THE SIGNAGE PLAN.

REVISIONS:

NO. DESCRIPTION DATE

SCALE

AS NOTED

CITY/TOWNSHIP

FARMINGTON

COUNTY

OKLAND

STATE

PROJ. NO.

0111-15-003

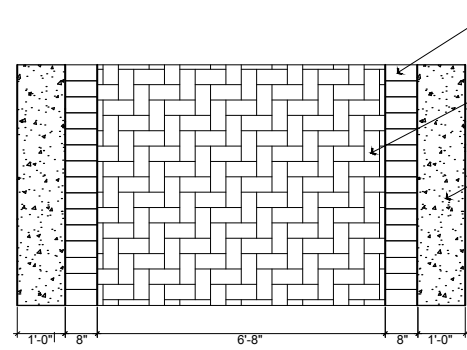
DATE

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SHEET



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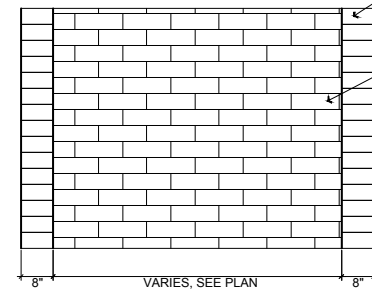
CROSSWALK SOLDIER COURSE TO STACKED BOND VEHICULAR CLAY BRICK PAVER, ENDICOTT CLAY PRODUCTS, MANGANESE IRONSPOT COLOR

MAIN CROSSWALK PAVER FIELD TO BE VEHICULAR CLAY BRICK PAVERS, PACIFIC CLAY BEAR PATH PAVER, MEDIUM IRONSPOT COLOR, HERRINGBONE PATTERN, 90° TO DIRECTION OF VEHICULAR TRAVEL

9 3/4" THICK X 12" WIDE CONCRETE BORDER FOR CROSSWALK (SOUTH SIDE OF OAKLAND AND FARMINGTON INTERSECTION, ONLY.) APPLY 12" WIDE COLD PLASTIC OVERLAY TO CONCRETE BORDER. SEE DETAIL 4, THIS SHEET.

GENERAL NOTES
1. REFER TO MATERIALS PLAN AND DETAIL 4, THIS SHEET FOR LAYOUT
2. REFER TO SPECIFICATIONS FOR BRICK PAVER MANUFACTURER INFORMATION, COLORS, DIMENSIONS AND INSTALLATION METHODS.

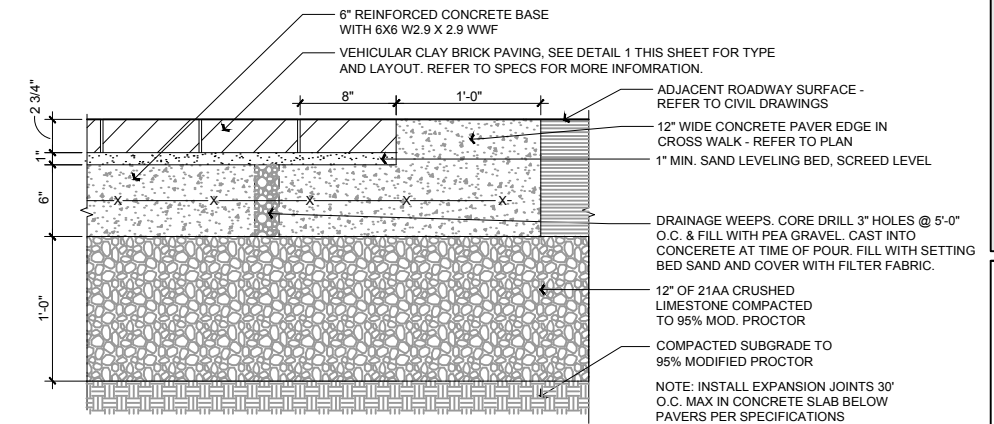
01 BRICK PAVER CROSSWALK DETAIL
SCALE: 1/2" = 1'-0"



SOLDIER COURSE BORDER TO BE STACKED BOND ENDICOTT CLAY PRODUCTS, MANGANESE IRONSPOT BRICK COLOR. REFER TO SPECIFICATIONS FOR PAVER INFORMATION.

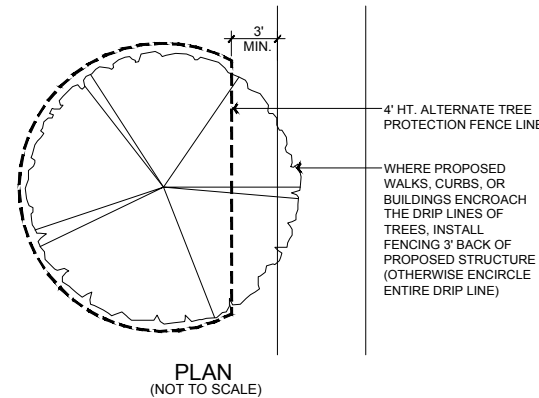
MAIN PAVER FIELD TO BE PACIFIC CLAY BEAR PATH PAVER, MEDIUM IRONSPOT COLOR, RUNNING BOND PATTERN. REFER TO SPECIFICATIONS FOR PAVER INFORMATION.

03 TYPICAL PEDESTRIAN BRICK PAVER DETAIL WITHOUT 'ARGYLE' STRIPING
SCALE: 1/2" = 1'-0"

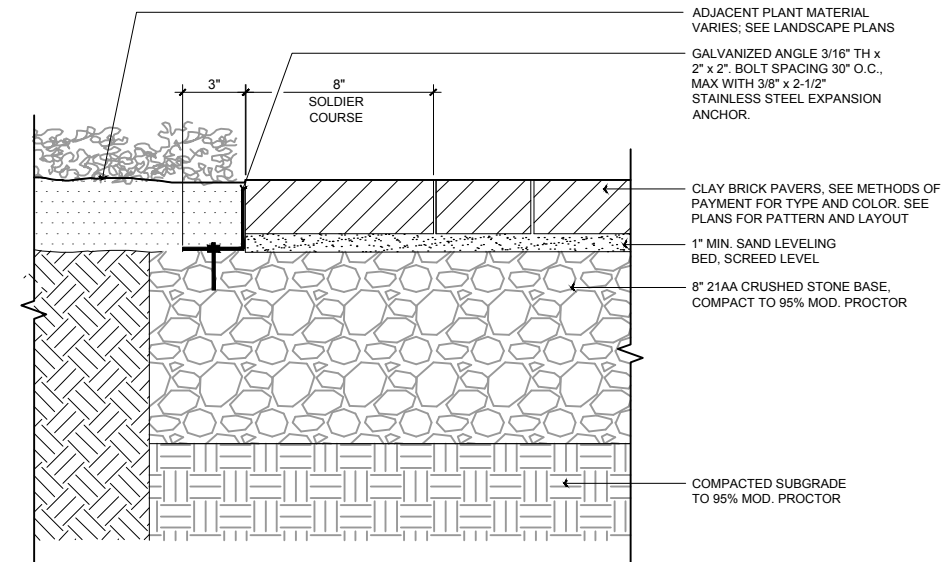


04 TYPICAL VEHICULAR BRICK PAVING
SCALE: 1" = 1'-0"

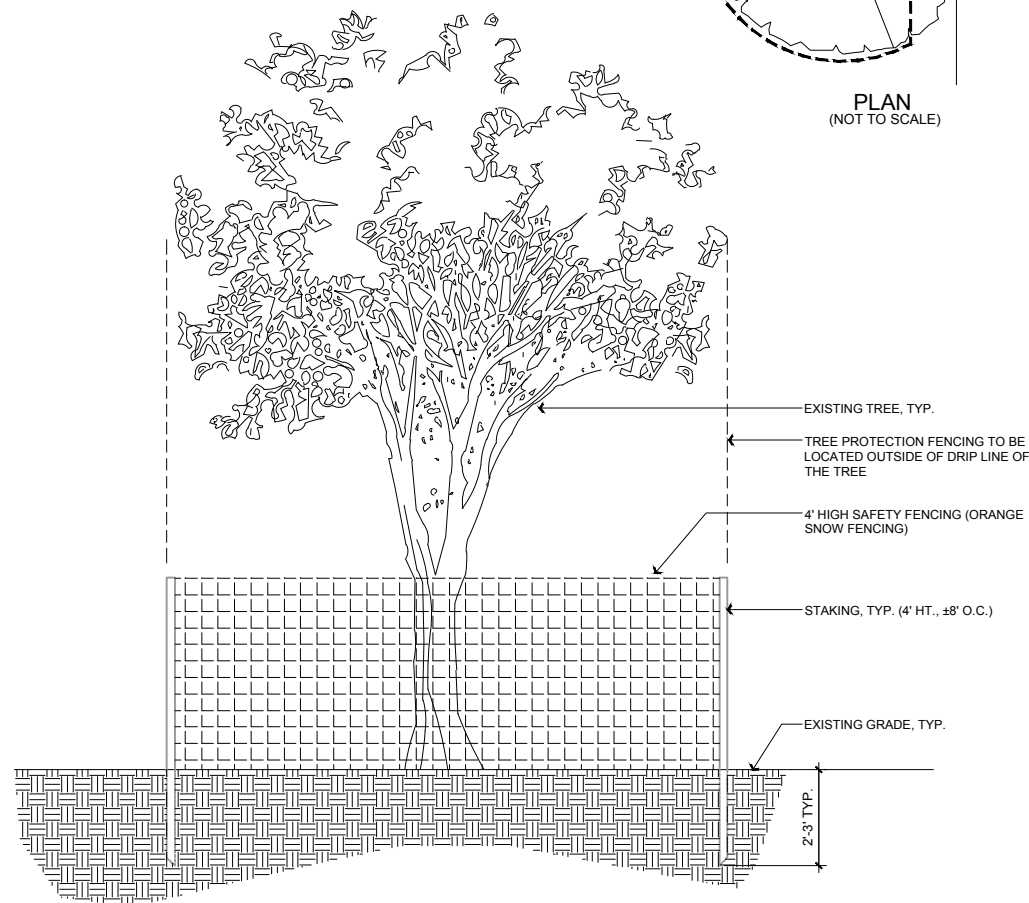
NOTE:
1. ALL TREE PROTECTION FENCING SHALL BE ERECTED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES. INSPECTION SHALL BE AT THE DISCRETION OF THE GENERAL CONTRACTOR.
2. NO ACTIVITY SHALL TAKE PLACE WITHIN THE DRIP LINE OF ANY TREE TO REMAIN (GRADING, DIGGING, CUTTING, FILLING, STORAGE OF MATERIALS, ETC.)
3. ANY REQUIRED SILT FENCING SHALL BE LOCATED OUTSIDE THE TREE PROTECTION FENCING.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING TREES SCHEDULED TO REMAIN AND ANY REPLACEMENT TREES REQUIRED AS A RESULT. ANY DAMAGE TO EXISTING TREES TO REMAIN SHALL BE REPORTED TO THE GENERAL CONTRACTOR IMMEDIATELY.



02 TREE PROTECTION FENCING DETAIL
SCALE: 1/2" = 1'-0"



05 SECTION OF BRICK ABUTTING PLANTING BED OR LAWN
SCALE: 3" = 1'-0"



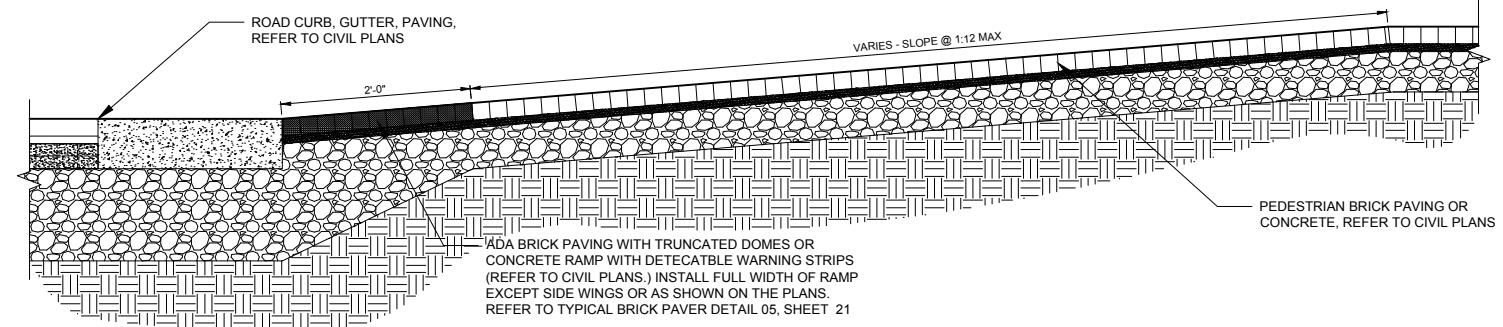
REV.	DATE	DESCRIPTION

DATE	PROJ. NUMBER	ENG	PROJ. LEAD	CADD	COUNTY	CITY/TOWNSHIP	SCALE	VERT. DATUM
	011115-003	KAW	JUH	PR	OAKLAND	FARMINGTON	AS NOTED	NA

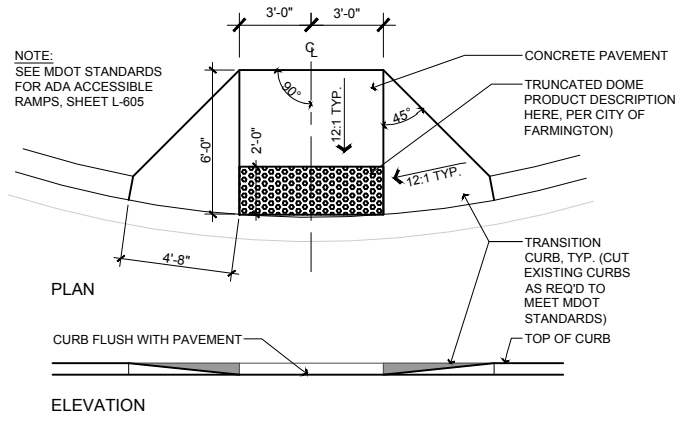


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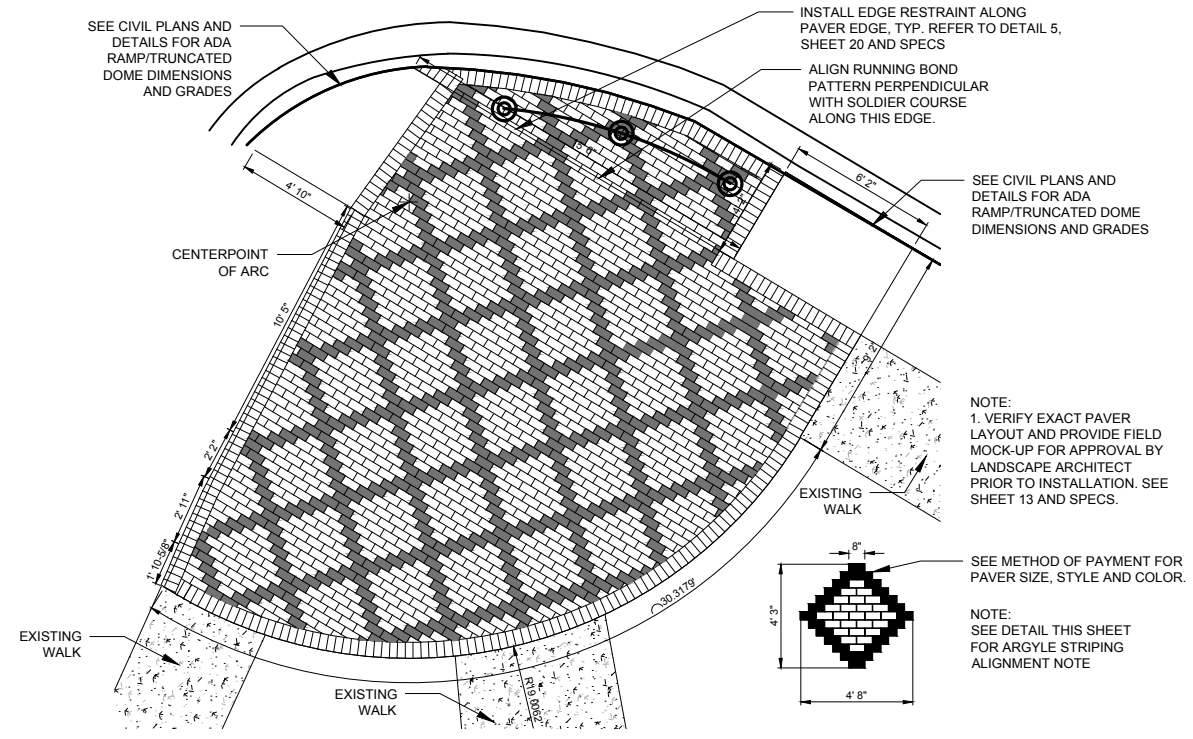
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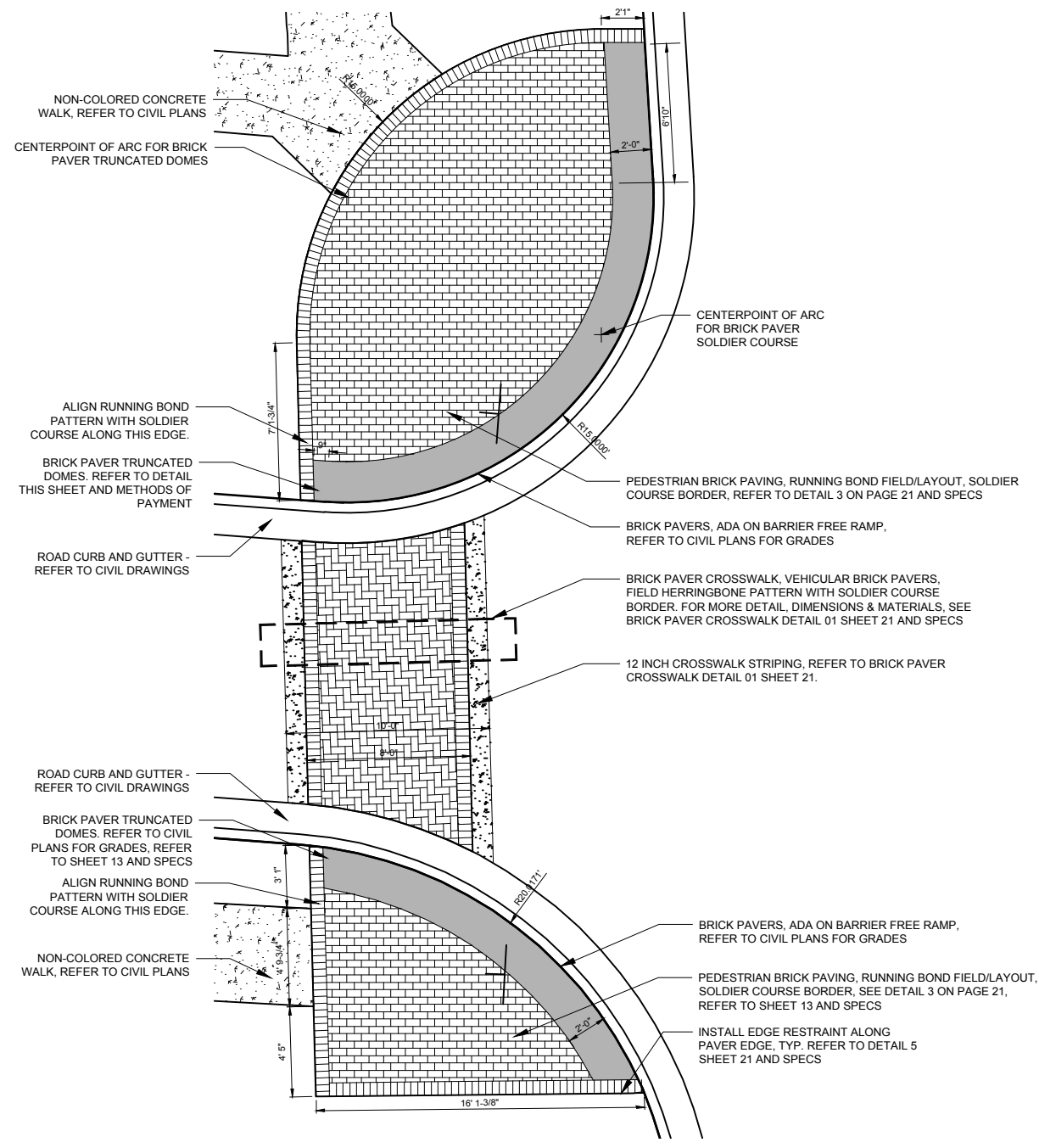
01 TYPICAL BARRIER FREE RAMP SECTION, ADA
NTS



02 TYPICAL BARRIER FREE RAMP DETAIL
SCALE: 1/4" = 1'-0"



03 PAVING PATTERN - GRAND RIVER AVE. & LIBERTY ST. (S.E. CORNER)
SCALE: 1/4" = 1'-0"



04 PAVING PATTERN - OAKLAND ST. & FARMINGTON RD. INTERSECTION LAYOUT DETAIL
(S.W. & N.W. CORNER, & WESTERN CROSSWALK)
SCALE: 1/4" = 1'-0"

DRAWING PATH: P:\0101_0125011180030_Oakland St Reconstruction Drawings\PLN_Landscape\030_Landscape Detail Sheets.dwg Jan 25, 2019 - 3:55pm

REVISONS:

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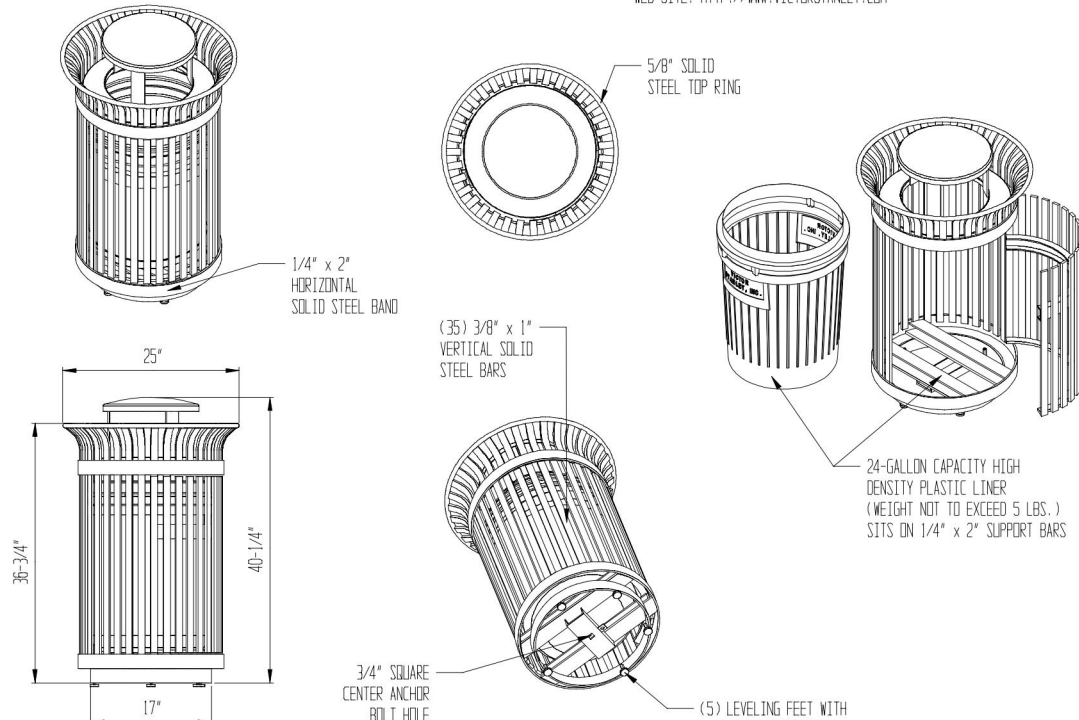
DATE	PROJ NUMBER	ENG	PROJ LEAD	CADD	COUNTY	CITY/TOWNSHIP	SCALE	VERT DATUM
01/11/2020	KAW	JUH		FR	OAKLAND	FARMINGTON	AS NOTED	NAVD83

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
LANDSCAPE DETAILS



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AVAILABLE OPTIONS:
POWDER COATING
10 STANDARD COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE).
CUSTOM PLAQUES & DECALS
AVAILABLE WITH STEEL PLAQUES IN VARIOUS SIZES AND PRESSURE SENSITIVE VINYL OUTDOOR DECALS.

LIDS
STANDARD TAPERED FORMED LID. AVAILABLE WITH OPTIONAL S-1 FORMED DOME (AS SHOWN), S-1 FORMED DOME WITH STAINLESS STEEL ASHTRAY, AND DS-24 FORMED DOME WITH SELF-CLOSING DOOR.

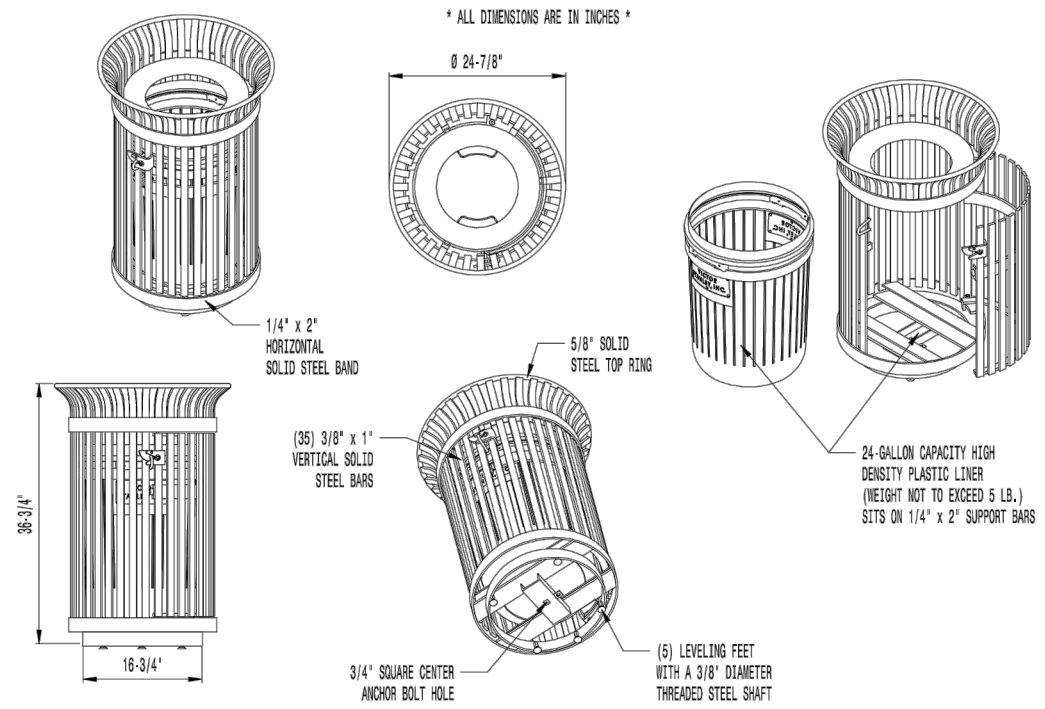
SECURITY
SHOWN WITH STANDARD LOCKABLE LATCH AVAILABLE WITH OPTIONAL KEYED LOCK BOX. LID RIVETED IN PLACE. AVAILABLE WITH OPTIONAL MOUNT WITH 3 IN-LINE ANCHOR HOLES AND OPTIONAL BOTTOM PLATE COVER.

NOTES:
1. DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
3. OIL IMPREGNATED BRONZE BUSHINGS AND STAINLESS STEEL PIVOT PINS FOR DOOR MOVEMENT, STANDARD 3/16\"/>

SD-35
IRONSITES® SERIES 24 GALLON SIDE-DOOR-OPENING LITTER RECEPTACLE
SHOWN: OPTIONAL S-1 FORMED DOME LID

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REV. 12/15/06 DRAWN M.C.W. 2006-167

01 VICTORY STANLEY: LITTER RECEPTACLE, SD-35 IRONSITES SERIES
N.T.S.



AVAILABLE OPTIONS:
POWDER COATING
12 STANDARD COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)
CUSTOM PLAQUES & DECALS
AVAILABLE WITH STEEL PLAQUES IN VARIOUS SIZES AND PRESSURE SENSITIVE VINYL OUTDOOR DECALS.

LIDS
STANDARD TAPERED FORMED LID (AS SHOWN). AVAILABLE WITH OPTIONAL DOME LID, DOME LID WITH STAINLESS STEEL ASHTRAY, RAIN BONNET LID, RAIN BONNET LID WITH STAINLESS STEEL ASHTRAY, CONVEX LID, CONVEX LID WITH SELF-CLOSING DOOR.

SECURITY
SHOWN WITH STANDARD WITH LOCKABLE LATCH AVAILABLE WITH OPTIONAL KEYED LOCK BOX. LID RIVETED IN PLACE. AVAILABLE WITH OPTIONAL MOUNT WITH 3 IN-LINE ANCHOR HOLES AND OPTIONAL BOTTOM PLATE COVER.

NOTES:
1. DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
3. OIL IMPREGNATED BRONZE BUSHINGS AND STAINLESS STEEL PIVOT PINS FOR DOOR MOVEMENT, STANDARD 3/16\"/>

SD-35
IRONSITES® SERIES 24-GALLON SIDE-DOOR-OPENING LITTER RECEPTACLE
SHOWN: STANDARD TAPERED FORMED LID



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02 VICTORY STANLEY: RECYCLE RECEPTACLE, SD-35, IRONSITES SERIES
N.T.S.

REV.	DATE	DESCRIPTION

DATE	PROJ NUMBER	ENG	PROJ LEAD	SCALE	VERT DATUM
01/11/15-003	811	RAW	JUH	AS NOTED	NAVD83
CITY	COUNTY	CADD	DTW/LAGE/TOWNSHIP		
FARMINGTON	OAKLAND	PR			



DRAWING PATH: P:\0101_0125011180030_Oakland_St_Reconstruct\Drawings\PLN_LID\Sheets\180330_LIDSCP DETAIL SHEETS.dwg Jan 25, 2019 - 3:55pm

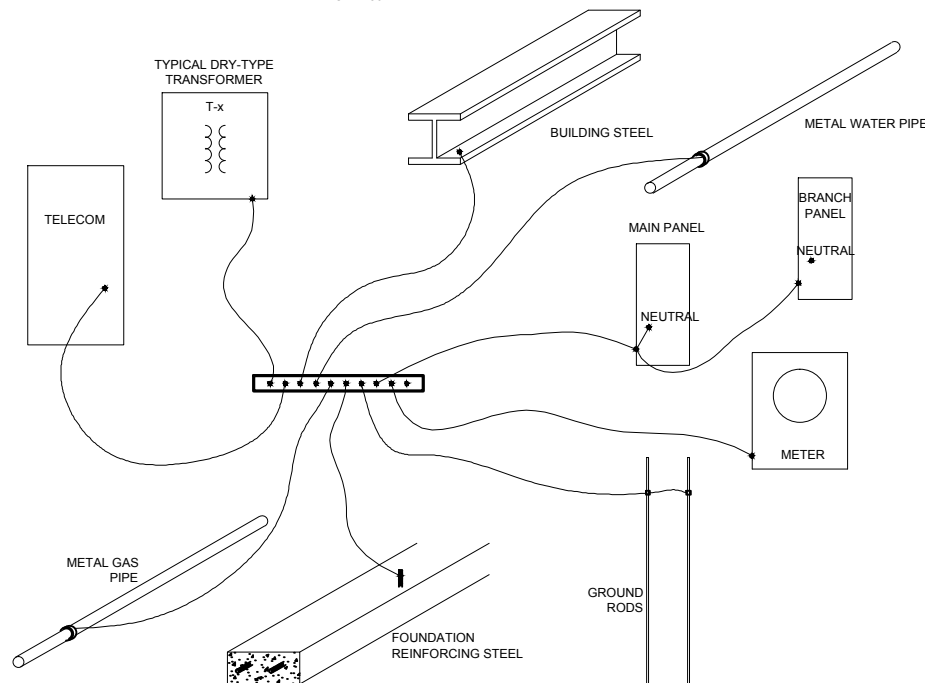
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GENERAL ELECTRICAL NOTES

- ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE AND ANY LOCAL AMENDMENTS.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF AN ELECTRICAL PERMIT AND SCHEDULING OF THE NECESSARY INSPECTIONS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION POWER FROM THE EXISTING MAIN PANEL PER SPECIFICATIONS. ALSO PROVIDE TEMPORARY LIGHTING PER THE PROJECT MANUAL.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
- A BOUND MANUAL SHALL BE SUBMITTED UPON COMPLETION WITH MAINTENANCE INSTRUCTIONS, PARTS LISTS, AND MANUFACTURER'S WARRANTIES. ALSO A WARRANTY FROM THE ELECTRICAL CONTRACTOR SHALL BE INCLUDED IN THIS MANUAL. ONE COPY OF THE RECORD DRAWINGS AND FINAL INSPECTION REPORT SHALL BE INCLUDED AT THIS TIME.
- THE CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE OPERATION AND MAINTENANCE OF THE ELECTRICAL SYSTEM.
- ACCEPTABLE WIRING METHODS: CONCEALED CONDUIT & WIRE PER THE LOCAL ELECTRICAL CODE. ALL WIRING SHALL BE CONCEALED WITHIN WALLS AND ABOVE CEILINGS IN ALL FINISHED SPACES. PVC-40 WITH THHN/THWN COPPER WIRE SHALL BE USED FOR ALL UNDERGROUND CIRCUITS AND FEEDERS. MC CABLE SHALL ONLY BE USED FOR FIXTURE WHIPS ABOVE CEILINGS.
- SWITCHES AND RECEPTACLE DEVICES SHOWN ADJACENT ON THE FLOOR PLAN SHALL BE IN MULTI-GANG BOXES. ALL LOW VOLTAGE WIRING SHALL MAINTAIN MINIMUM 2" SEPARATION FROM THE 120/208V OR 277/480V SYSTEMS.
- WIRING DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE, COLOR TO MATCH EXISTING. INTERIOR DEVICE PLATES TYPE AND COLOR SHALL MATCH EXISTING. PROVIDE WEATHERPROOF WHILE IN USE COVER FOR EXTERIOR RECEPTACLES.
- IDENTIFY EACH JUNCTION BOX AND RECEPTACLE WITH THE PANEL & CIRCUIT NUMBER. COMPLETE EACH PANEL CIRCUIT DIRECTORY.

NOTES

- SIZE GROUNDING/BONDING CONDUCTORS PER NEC ARTICLE 250



ELECTRICAL LEGEND AND SYMBOLS

PROPOSED	EXISTING	DEMOLITION
_____	_____	-----
-----	-----	-----
-----	-----	-----
-----	-----	-----

SWITCHES, RECEPTACLES AND OUTLETS

- S SINGLE POLE SWITCH
- S₃ THREE-WAY SWITCH
- S₄ FOUR-WAY SWITCH
- S_{DM} DIMMER SWITCH
- S_X KEY-OPERATED SWITCH
- S_T TIMER SWITCH
- S_P PILOT LIGHT SWITCH
- S_M MOTION DETECTION SWITCH - WALL
- S_{MC} MOTION DETECTION SWITCH - CEILING MOUNT
- S₃ PROVIDE DOUBLE SWITCHING. THE TWO OUTSIDE LAMPS OF EACH FIXTURE TO BE CONTROLLED BY ONE SWITCH AND THE TWO MIDDLE LAMPS OF EACH FIXTURE TO BE CONTROLLED BY THE OTHER SWITCH.
- S_F FAN SWITCH
- S_V LOW VOLTAGE SWITCH
- WP DUPLEX GROUNDED RECEPTACLE
- G WEATHERPROOF RECEPTACLE & COVER, GFI
- G DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
- CTR 208V, 1ϕ GROUNDED RECEPTACLE
- CTR COUNTERTOP RECEPTACLE
- Q QUADRUPLEX RECEPTACLE
- F FLOOR RECEPTACLE
- S SIMPLEX RECEPTACLE
- T TIMER
- J JUNCTION BOX
- P PUSH BUTTON
- PC PHOTO CELL

TELEPHONE/COMMUNICATIONS

- ▽ TELEPHONE/DATA OUTLET. SEE DETAIL.
- ▽ TELEPHONE OUTLET. SEE DETAIL.
- ▽ FLOOR TELEPHONE/DATA OUTLET
- S CEILING SPEAKER, FLUSH MTD. WITH BACKBOX AND GRILLE
- △ WALL SPEAKER
- C WALL MTD. CLOCK MTD. 6"-8" AFF.
- TV CABLE TV OUTLET
- B BELL
- CB CALL BACK SWITCH
- M MICROPHONE JACK
- PS POWER SUPPLY ABOVE CEILING
- WG WIRE GUARD WHERE NOTED
- K KEYPAD
- G GLASS BREAK DETECTOR - CEILING MOUNTED
- ↔ MAGNETIC SWITCH (DOOR CONTACT)
- A AMPLIFIER
- SC SECURITY CAMERA
- ED ELECTRIC DOOR LOCK
- PR PROXIMITY READER ACCESS CONTROL
- EC ENTRANCE CALL SYSTEM
- NL NURSE CALL LIGHT
- N NURSE CALL PULL STATION

SWITCH LOOP WIRING

CIRCUIT WIRING

UNDERGROUND WIRING

UN-SWITCHED HOT WIRING

FIRE ALARM SYSTEM

- OUTDOOR BELL/CHIME
- S SMOKE DETECTOR
- DS DUCT SMOKE DETECTOR
- H HEAT DETECTOR
- CS FIRE ALARM STROBE - CEILING MOUNT
- CS FIRE ALARM HORN AND STROBE
- FS FIRE ALARM SPEAKER AND STROBE
- CS FIRE ALARM STROBE
- CS FIRE ALARM SPEAKER AND STROBE - CEILING MOUNT
- CS FIRE ALARM HORN AND STROBE - CEILING MOUNT
- CS FIRE ALARM CHIME AND STROBE
- CS FIRE ALARM CHIME AND STROBE - CEILING MOUNT
- F FIRE ALARM PULL STATION
- DH ELECTRO./MAG. DOOR HOLD OPEN
- FS FIRE ALARM FLOW SWITCH
- TS FIRE ALARM TAMPER SWITCH
- FAA FIRE ALARM ANNUCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- CS FIRE ALARM SPEAKER - CEILING MOUNT
- CS FIRE ALARM SPEAKER - WALL MOUNT

LIGHT FIXTURES

- SURFACE CEILING MOUNT
- EMERGENCY SURFACE CEILING MOUNT
- PENDANT/CHAIN MOUNT
- EMERGENCY PENDANT/CHAIN MOUNT
- RECESSED MOUNT
- EMERGENCY RECESSED MOUNT
- EXTERIOR POLE LIGHT
- EMERGENCY WALL PACK
- EXTERIOR WALL MOUNT
- EMERGENCY EXTERIOR WALL MOUNT
- EXIT LIGHT - CEILING MOUNT
- EXIT LIGHT - WALL MOUNT
- RECESSED CAN LIGHT
- EMERGENCY RECESSED CAN LIGHT
- INTERIOR WALL MOUNT
- EMERGENCY INTERIOR WALL MOUNT
- CEILING FAN
- MOTION SENSOR

POWER DISTRIBUTION

- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- COMBINATION MOTOR STARTER, DISCONNECT SWITCH
- STARTER
- ELECTRIC METER
- LIGHT, POWER OR DISTRIBUTION PANEL - SURFACE MOUNT
- LIGHT, POWER OR DISTRIBUTION PANEL - FLUSH MOUNT
- MOTOR
- RELAY

ABBREVIATIONS

- A AMPERE
- AFF ABOVE FINISHED FLOOR
- CAT CATALOG
- CB CIRCUIT BREAKER
- CMU CONCRETE MASONRY UNIT
- C CONDUIT CO. COMPANY
- CUH CABINET UNIT HEATER
- EC ELECTRICAL CONTRACTOR
- EF EXHAUST FAN
- EWC ELECTRIC WATER COOLER
- FA FIRE ALARM
- GFI GROUND FAULT INTERRUPTER
- GND EQUIPMENT GROUND
- HID HIGH INTENSITY DISCHARGE
- HPS HIGH PRESSURE SODIUM
- HVAC HEATING, VENTILATING & AIR CONDITIONING
- K KEY OPERATED DEVICE
- KVA KILOVOLT-AMPERES
- MCB MAIN CIRCUIT BREAKER
- MDP MAIN DISTRIBUTION PANEL
- MH METAL HALIDE
- MISC MISCELLANEOUS
- MLO MAIN LUG ONLY
- MTD MOUNTED
- NO NUMBER
- PL PILOT LIGHT
- RECEP RECEPTACLE
- TRANS TRANSFORMER
- TEL TELEPHONE
- TV TELEVISION
- TYP TYPICAL
- UGE UNDERGROUND ELECTRIC
- UH UNIT HEATER
- UON UNLESS OTHERWISE NOTED
- V VOLT
- VA VOLT-AMPERES
- W WIRE
- WP WEATHERPROOF
- Ø PHASE

NOTES

- MINIMUM SIZE OF RIGID CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.
- MINIMUM SIZE OF FLEX CONDUIT SHALL BE 1/2", UNLESS OTHERWISE NOTED.
- MINIMUM SIZE WALL BOX IN CMU SHALL BE 4"x4", UNLESS OTHERWISE NOTED.
- WHERE MOTION DETECTOR SWITCHES ARE PROVIDED, PROVIDE BALLASTS WHICH ARE COMPATIBLE WITH SWITCHES.
- MINIMUM SIZE OF UNDERGROUND CONDUIT SHALL BE 1 1/4", UNLESS OTHERWISE NOTED.



Know what's below.
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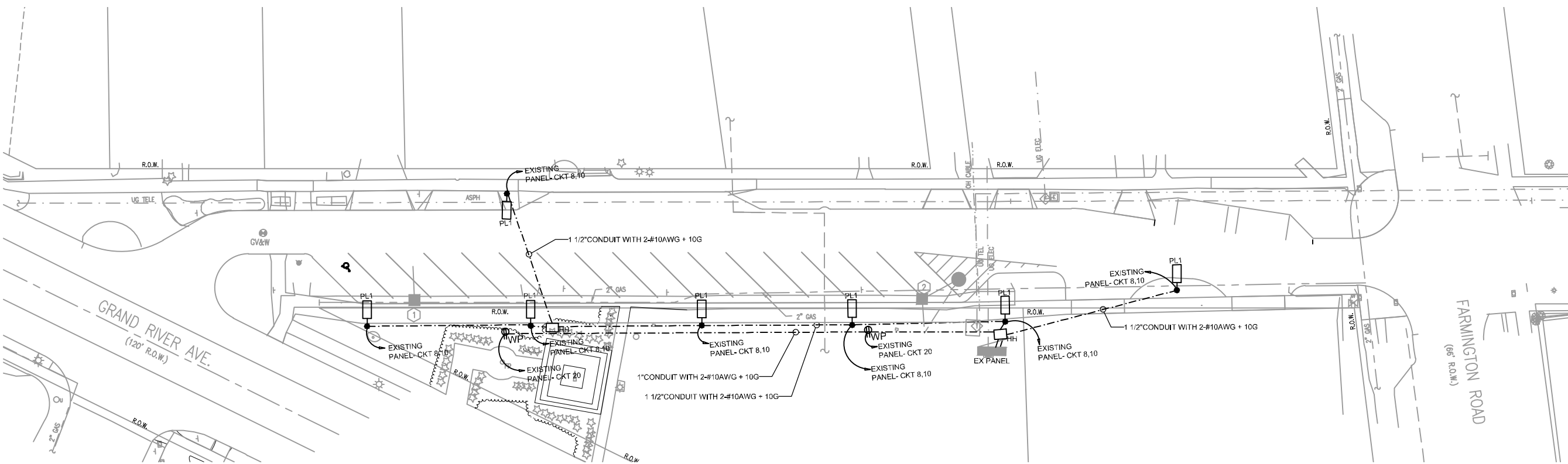
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 PROJ. NO: 011118-003 PROJ. NO: 011118-003 PROJ. NO: 011118-003 PROJ. NO: 011118-003 PROJ. NO: 011118-003
 COUNTY: OAKLAND COUNTY: OAKLAND COUNTY: OAKLAND COUNTY: OAKLAND COUNTY: OAKLAND
 CITY/TOWNSHIP: FARMINGTON CITY/TOWNSHIP: FARMINGTON CITY/TOWNSHIP: FARMINGTON CITY/TOWNSHIP: FARMINGTON CITY/TOWNSHIP: FARMINGTON
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 REVISIONS: | | | | |

CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
ELECTRICAL LEGEND & SYMBOLS

OAKLAND STREET (50' R.O.W.)



OHM
ARCHITECTS ENGINEERS PLANNERS
34000 Plymouth Road
Livonia, MI 48150
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QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
360	Ft	Conduit, DB, 1, 1 1/2 inch
180	Ft	Conduit, DB, 1, 1 inch
1310	Ft	Wire #10AWG
2	Ea	Ground Mounted Receptacle
2	Ea	Hand Hole
7	Ea	Pole and Luminaire

DRAWING PATH: P:\0101_0125011180035_Oakland_St_Reconstruct\Drawings\Civil\Plns_Crest\ELECTRICAL_180035CON.dwg Jan 25, 2019 - 4:50pm

REVISIONS:

NO.	DATE	DESCRIPTION	BY	CHKD.

SHEET



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CITY OF FARMINGTON
OAKLAND STREET RECONSTRUCTION
ELECTRICAL SITE LIGHTING PLAN

25
OF 33

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EX PANEL		DESCRIPTION: EXISTING PANEL SURFACE MOUNT, 240/120V, 1φ, 4W, 100A, MCB, 20 CIRCUIT											
IDENTIFICATION	KVA LOAD		WIRE	POLE	AMP	CIRCUIT	CIRCUIT	AMP	POLE	WIRE	KVA LOAD		IDENTIFICATION
	A	B									B	A	
LIGHTS	0.00	0.00	EX.	2	20	1	2	20	1	EX.	0.00	0.00	NW ISLAND
PHOTOCELL	-	-	EX.	1	20	5	4	20	1	EX.	0.00	0.00	SE ISLAND
TWIST LOCK	-	-	EX.	1	30	7	6	20	1	EX.	-	-	SW ISLAND
GFCI	-	-	EX.	1	20	9	8	20	2	#10	-	-	OAKLAND ST LIGHTS
GFCI	-	-	EX.	1	20	11	10	20	1	EX.	-	-	PULL BOX
GFCI	-	-	EX.	1	20	13	12	20	1	EX.	-	-	LIGHT POLE PLUGS
GFCI	-	-	EX.	1	20	15	14	20	1	EX.	-	-	PULL BOX
GFCI	-	-	EX.	1	20	17	16	20	1	EX.	-	-	SPRINKLER
NE ISLAND	-	-	EX.	1	20	19	18	20	1	EX.	-	-	GROUND MOUNTED RECEPTACLES
CONNECTED LOAD	0.00	0.00					20	20	1	#10	-	-	CONNECTED LOAD

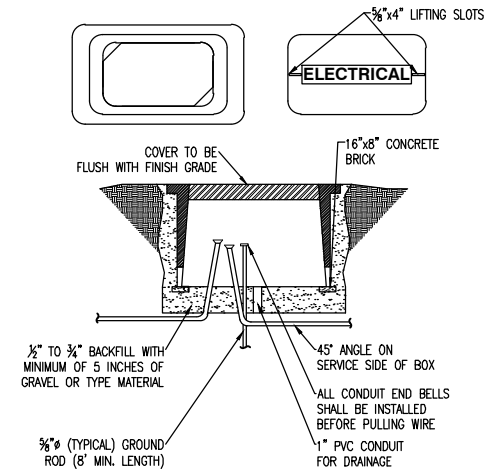
LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG #	LAMPS	BALLASTS	REMARKS
PL1	POLE MOUNTED LUMINAIRE	KING LUMINAIRE	K134R-P4AR-III-60(SSL)-7030-120-277V-K4/K12-4K-BK	4000K, 70CRI	100 WATTS	TEXTURED BLACK WITH CW #7 FINISH. PURCHASE WITH KING LUMINAIRE POLE MODEL # KF31-10-DR.

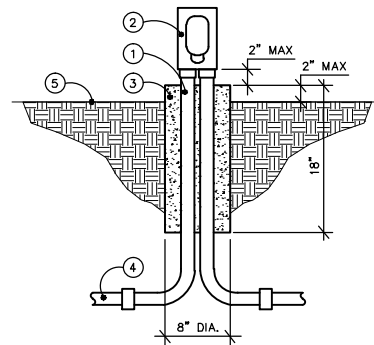


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- BOX AND COVER SHALL BE CONCRETE OR COMPOSITE. METAL COVER IS ACCEPTABLE.
- COVERS SHALL BE SECURED WITH 3/8" BOLTS, NUTS, AND WASHERS, WHICH SHALL BE BRASS, STAINLESS STEEL OR OTHER CORROSION RESISTANT MATERIAL. STAINLESS STEEL SHALL HAVE A CHROMIUM CONTENT OF NOT LESS THAN 18% AND A NICKEL CONTENT OF NOT LESS THAN 8%. NUTS SHALL BE RECESSED BELOW TOP SURFACE OF COVER.
- COVER LETTERING SHALL BE 1/2" MINIMUM LETTERS CAST IN STANDARD MARKINGS (ELECTRICAL).
- CONDUIT ENTERING THE BOX SHALL HAVE 90° LONG RADIUS BEND (INSIDE THE BOX). THE CONDUITS OPENING, INSIDE THE BOX, SHALL BE AT LEAST 4" BELOW THE LID. OPENING SHALL HAVE SMOOTH EDGE. IF THE CONDUIT IS P.V.C. A SLIP COUPLING MUST BE USED. IF THE CONDUIT IS RIGID PIPE, A PROTECTIVE BUSHING SHALL BE USED.
- CONDUCTORS SHALL HAVE A MINIMUM OF 24" SLACK FROM CONDUIT BELL END.
- BACKFILL WITH EXCAVATED MATERIAL AND THOROUGHLY COMPACT.
- WHERE PULLBOXES ARE INSTALLED IN CONCRETE AREAS, 1/2" PREMOLDED EXPANSION JOINT SHALL BE INSTALLED AROUND THE BOX.
- MINIMUM DIMENSIONS SHALL BE 13"x24"x18" FOR HANDLES.



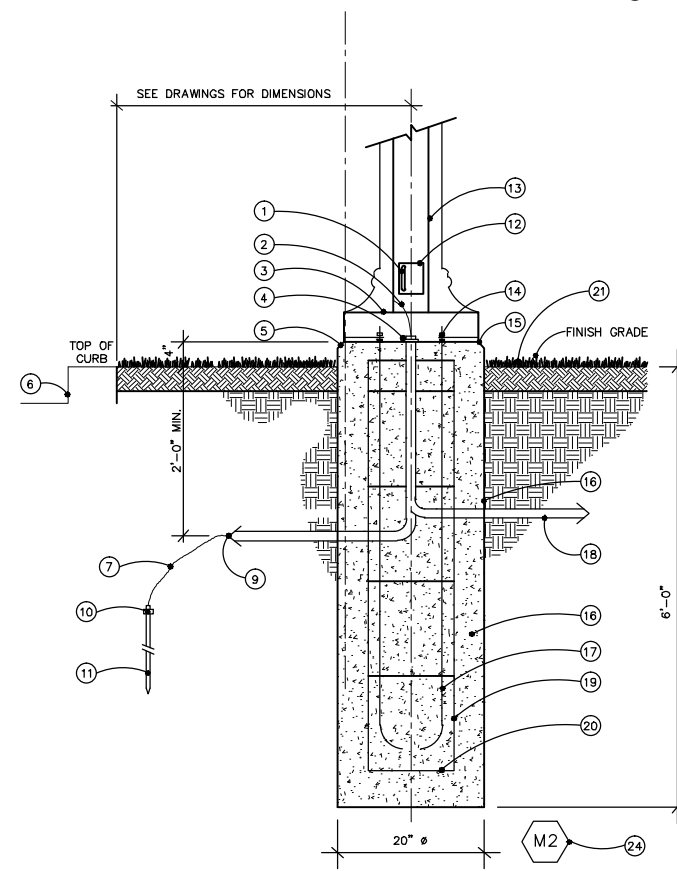
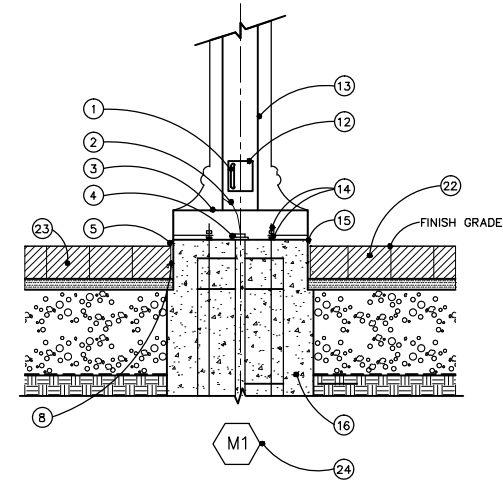
3 PULL BOX DETAIL
NO SCALE



2 GROUND MOUNTED DUPLEX RECEPTACLE
NO SCALE

- RIGID CONDUIT
- SINGLE GANG TYPE "FSS" BOX W/ WEATHER PROOF COVER AND G.F.I. PROTECTED DUPLEX RECEPTACLE. FINISH: BLACK
- CONCRETE BASE
- BRANCH CIRCUIT RIGID PVC CONDUIT
FINISH GRADE

NOTE:
PROVIDE A 12" LONG PIECE OF P1000 UNISTRUT EXTENDED INTO CONCRETE BASE TO SUPPORT THE "FSS" BOX. PAINT ALL EXPOSED UNISTRUT BLACK. (UNISTRUT NOT VISIBLE IN DETAIL)
RECEPTACLE CONDUITS SHALL BE 1".



1 TYPICAL PEDESTRIAN LIGHT POLE INSTALLATION DETAILS - TYPES 1 AND 2
NO SCALE

- FUSE (S) IN CKT. TO BALLAST WITH BUSS TYPE "BBB" FUSE (S) AND BUSS "IRON" HEH WATERPROOF FUSE HOLDERS. SIZE FUSES AS REQUIRED BY LUMINAIRE MANUFACTURER
- CONNECT GROUND TO POLE BASE W/ BURNDY NO. GB4C
- BASE COVER - VERIFY DIAMETER IN FIELD AND REPORT ANY DISCREPANCIES BETWEEN BASE COVER AND FOOTING DIAMETER TO THE LANDSCAPE ARCHITECT AND ELECTRICAL ENGINEER
- BUSH CONDUITS
- 1" CHAMFER
- FACE OF CURB
- NO. 8 TW GREEN GROUND WIRE
- POLYMERIC SAND JOINT
- 3/4" PVC CONDUIT FOR GROUND WIRE
- GROUND ROD CLAMP BURNDY NO. GAR-644C
- 3/4" x 8" COPPER WELD GROUND ROD
- HAND HOLE - 4" x 6" (NOMINAL)
- USE NO. 12 TW IN POLE
- PROJECT ANCHOR BOLTS 3" ABOVE TOP OF BASE. PROVIDE DOUBLE NUTS FOR LEVELING UNIT (ONE ABOVE AND ONE BELOW BASE FLANGE)
- GROUT VOID BETWEEN BASE FLANGE AND TOP OF CONCRETE. HAND FINISH. PROVIDE 3/8" WEEP HOLE THROUGH GROUT AT BASE OF POLE
- REINFORCED CONCRETE BASE
- ANCHOR BOLTS TO BE FURNISHED BY POLE MANUFACTURER
- SEE PLANS FOR TYPE OF WIRING
- 4 NO. 5 REBAR
- WELD NO. 5 TIE RODS ALL AROUND @ 12" O/C
- LAWN OR PLANTING AREAS
- LIGHT POLE BASE DETAIL - BRICK PAVING
- BRICK PAVERS
- MOUNTING TYPE DESIGNATIONS - REFER TO ELECTRICAL PLANS



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OAKLAND STREET RECONSTRUCTION
ELECTRICAL DETAILS & SCHEDULES