

DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION

MINOR COLLECTOR

A.D.T. - 2020 = 1650

A.D.T. - 2040 = 1700

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
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CONVENTIONAL SYMBOLS (USED IN PLANS)

	CONCRETE	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS		
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE		
OVERHEAD POWER		
UNDERGROUND POWER		
GAS		
WATER		

MANHOLE	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
DROP INLET	
DITCH BLOCK	
GROUND MOUNTED SIGN	

LIGHT POLE
 H-FRAME POWER POLE
 TELEPHONE PEDESTAL
 FENCE
 CHAIN LINK
 WOVEN WIRE
 GATE POST
 BENCHMARK

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES. EXCEPT FOR THE
PROPOSED MSD STORMSEWER PROJECT

424 NORTH SAPPINGTON ROAD
GLENDALE, MISSOURI 63122
314-968-8157

APPROVED BY:

EAST ESSEX AVENUE
RECONSTRUCTION
GLENDALE, MISSOURI AND KIRKWOOD, MISSOURI
FEDERAL PROJECT NO. STP-9901 (653)
TIP # 6949-21
PRELIMINARY PLANS

A map showing the area around 1000 Hillard Rd. The map includes Hillard Rd, Dwyer Ave, and Par Ln. The property at 1000 Hillard Rd is highlighted in green.



N.T.S

PROJECT LIMITS	
BEGINNING OF PROJECT	STA 11+52.91
END OF PROJECT	STA 23+84.93
APPARENT LENGTH	2,332.02 FEET
EQUATIONS AND EXCEPTIONS	N/A
TOTAL CORRECTIONS	N/A
NET LENGTH OF PROJECT	2,232.02 FEET

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**PRELIMINARY
PLANS
NOT FOR
CONSTRUCTION**

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MISSOURI STATE ENGINEERING CORPORATION
CERTIFICATE/CLIC. NO. 2002011852

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EAST ESSEX AVE
RECONSTRUCTION

PROJECT/JOB NO. STP-9901 (653)
MSD PROJECT NO. 22MSD-00471
MSD BASE MAP 23M
DATE PREPARED 5/22/2023
SHEET 1 OF 17

35 AM 5/22/2023

14353 NAVD88(SLC2011a) Elev = 619.05 F+US (or)
1886.686 Meter NGVD29 Elev = 619.39 F+US
"L" on the northwest corner of the first concrete
step at #500 Sappington Road; (Glendale
Presbyterian Church) 41' east of the centerline
of Sappington Road and 15' north of the
centerline of Winnetka Lane extended.
SP M0 East = 306126 ± E = 259901 ± Meter - Estimated
Rough NAD83 Lat = 38.591809 ± (N/+)
Long = 90.386347 ± (W/-)

PROJECT DISTURBANCE = 0.71 ACRES
PROJECT RUNOFF DIFFERENTIAL = 0.258 CFS

CONTRACTOR'S INSURANCE (OFFSITE):

PREVAILING WAGE NOTE:

GENERAL NOTES:

1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND PART OF THE CONSTRUCTION OF THIS PROJECT.
2. THE BASIS OF BEARING IS GRID NORTH, MISSOURI COORDINATE SYSTEM 1983, EAST ZONE.VERTICAL DATUM IS NAVD88.
3. ALL CONSTRUCTION OPERATIONS AND WORK ZONE TRAFFIC CONTROL WITHIN THE RIGHT OF WAY WILL FOLLOW MODOT OR M.U.T.C.D. STANDARDS, WHICHEVER IS MORE STRINGENT.
4. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY AND RECORDS. THE CITY DOES NOT WARRANT THE LOCATIONS OF THESE FACILITIES AS PRECISE. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR’S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND PRECISE LOCATION OF ALL FACILITIES AND TO AVOID DAMAGE. SEE THE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES KNOWN TO BE ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS.
5. CONTRACTOR SHALL REFERENCE AND FOLLOW THE MODOT ADA CHECKLIST WHEN LAYING OUT AND CONSTRUCTING CURB RAMPS, LANDINGS, SIDEWALK, PAVED APPROACH SIDEWALK CONNECTIONS, PEDESTRIAN SIGNALS, AND ANY OTHER PEDESTRIAN ITEMS ON THIS PROJECT.
6. THERE SHALL BE A MINIMUM OF 4’ OF HORIZONTAL SIDEWALK CLEAR SPACE AROUND FEATURES SUCH AS EXISTING POWER POLES, NEW SIGNAL MAST ARMS, NEW SIGNAL 8’ TALL POSTS, AND ANY OTHER FEATURES THAT PROTRUDE ABOVE THE GROUND.
7. DETECTABLE WARNING PANELS SHALL BE RED PREFORMED UNITS CAST INTO THE RAMP PER THE MANUFACTURER’S RECOMMENDATIONS. PRECAST CONCRETE UNITS, SURFACE APPLIED MATERIALS, OR STAMPED CONCRETE WILL NOT BE ALLOWED.
8. THE GENERAL REQUIREMENTS, PROVISIONS AND TECHNICAL SPECIFICATIONS GOVERNING THE COMPLETION OF THE WORK CONTEMPLATED SHALL BE THE CURRENT VERSION OF THE “MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION”, TOGETHER WITH THE GENERAL AND JOB SPECIAL PROVISIONS AND OTHER STATE AND FEDERAL REQUIREMENTS CONTAINED IN THE CONTRACT DOCUMENTS.

RESTORATION NOTES:

1. CONTRACTOR TO SOD ALL GRASS AREAS DISTURBED BY THE CONSTRUCTION UNLESS OTHERWISE SPECIFIED. SEE PLANS AND SPECIFICATION FOR DETAILS. AREA OF DISTURBANCE SHALL BE MINIMIZED TO REDUCE SODDING.
2. CONTRACTOR SHALL REPLACE DAMAGE TO CITY OR PRIVATE PROPERTY WHERE NECESSARY TO MATCH PRECONSTRUCTION CONDITIONS.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA AND SHALL USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION INCLUDING, BUT NOT LIMITED TO, STAKED STRAW BALES AND/OR SILTATION FABRIC FENCES. CONTROL SHALL COMMENCE WITH THE CLEARING OPERATIONS AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY CITY OF KIRKWOOD AND AS NEEDED BY MODOT. THE CONTRACTOR’S RESPONSIBILITIES INCLUDE ALL IMPLEMENTATION AND MAINTENANCE AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE CITY OF GLENDALE AND AS REQUIRED BY MODOT MAY AT THEIR OPTION DIRECT THE CONTRACTOR IN HIS METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITING OF SILT OR MUD ON NEW OR EXISTING PAVEMENT SHALL BE REMOVED IMMEDIATELY. ANY DEPOSITING OF SILTS OR MUD IN NEW OR EXISTING STORM SEWERS AND/OR SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF THE CITY OF GLENDALE AND AS REQUIRED BY CONTRACTOR.”
2. ALL EROSION CONTROL SYSTEMS ARE TO BE INSPECTED AND CORRECTED WEEKLY, ESPECIALLY WITHIN 48 HOURS OF ANY RAIN STORM RESULTING IN ONE-HALF INCH OF RAIN OR MORE. ANY SILT OR DEBRIS LEAVING THE SITE AND AFFECTING PUBLIC RIGHT OF WAY OR STORM WATER DRAINAGE FACILITIES SHALL BE CLEANED UP WITHIN 24 HOURS AFTER THE END OF THE STORM.
3. EROSION CONTROL DEVICES (SILT FENCE, SEDIMENT BASIN, ETC.) SHALL BE IN ACCORDANCE WITH THE MODOT STORMWATER POLLUTION PREVENTION PLAN
4. GRADED AREAS SHALL BE SODDED WITHIN 14 DAYS OF STOPPING LAND DISTURBANCE ACTIVITIES.

PAVEMENT AND DRIVEWAY NOTES:

1. REPLACE PAVEMENT STRIPING WHERE NECESSARY TO MATCH PRECONSTRUCTION CONDITIONS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. ALL PAVEMENT REMOVED OR DAMAGED BY THIS CONSTRUCTION AS REQUIRED OR IN EXCESS OF THAT INDICATED ON THE PLANS SHALL BE REPLACED, “IN KIND.” DAMAGED PAVEMENT SHALL BE REPLACED BY CONTRACTOR WITH NO PAY.
3. THE CONTRACTOR SHALL KEEP ALL PAVEMENTS CLEAN AND FREE OF MUD, ROCK AND DEBRIS AT ALL TIMES DURING CONSTRUCTION.
4. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS (PREFERABLY IN PERSON) 48 HOURS IN ADVANCE OF ANY DISRUPTED ACCESS TO THEIR DRIVEWAY.
5. ACCESS TO PRIVATE DRIVEWAYS MAY BE LIMITED BY THE NATURE OF THIS WORK. THE CONTRACTOR SHALL SCHEDULE HIS WORK SUCH THAT AT NO TIME DURING THE LIFE OF THIS CONTRACT WILL ANY DRIVEWAY BE CLOSED FOR MORE THAN TEN (10) CONSECUTIVE CALENDAR DAYS. PLACEMENT OF CONCRETE MUST TAKE PLACE WITHIN THREE (3) DAYS OF PAVEMENT BEING BROKEN. ONE DAY SHALL BE CONSIDERED A PERIOD OF TIME OF EIGHT (8) CONSECUTIVE HOURS TO 24 CONSECUTIVE HOURS.

STRIPING/SIGNAGE NOTES:

1. ALL PERMANENT STRIPING SHALL BE TYPE B EPOXY MARKING PAINT WITH DOUBLE-DROP ON GLASS BEADS.
2. ALL STOP BARS, YIELD BARS, DIRECTIONAL SYMBOLS, WORDING, AND CROSSWALKS SHALL BE TYPE B EPOXY MARKING PAINT WITH DOUBLE-DROP ON GLASS BEADS.
3. ALL SIGNS SHALL BE MOUNTED AT A HEIGHT OF SEVEN (7) FEET MEASURED FROM THE BOTTOM OF THE SIGN TO THE TOP OF THE CURB, OR TO THE TOP OF THE ROADWAY AT EDGE OF PAVEMENT. ALL SIGNS SHALL BE MOUNTED ONE (1) FOOT FROM THE EDGE OF SIDEWALK.
4. BIKE LANE SYMBOL SHALL BE STANDARD PERFORMED THERMOPLASTIC WITH TYPE P DROP ON GLASS BEADS.

STANDARD SEWER CONSTRUCTION:

ALL STORM AND SANITARY SEWER STRUCTURES AND APPURTENANCES TO BE DEDICATED TO MSD, OR TO BE PRIVATE UNDER MSD INSPECTION, SHALL CONFORM TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT, STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2009. THAT WILL INCLUDE STANDARD DETAILS SHOWN THEREIN, AND SHALL INCLUDE ALL SUBSEQUENT CHANGES MADE THERETO.

SOME RECENT CHANGES CONCERN PIPE FIELD TESTING AND PERFORMANCE, AND INCLUDE THE FOLLOWING:

PART 2 MATERIALS OF CONSTRUCTION

HIGH DENSITY POLYETHYLENE (HDPE) PIPE IS NOT ALLOWED FOR GRAVITY SEWERS FOR STORM, COMBINED, OR SANITARY SEWERS THAT ARE “PUBLIC” OR “PRIVATE UNDER MSD INSPECTION”.

POLYPROPYLENE (PP) PIPE IS ALLOWED AS FOLLOWS FOR GRAVITY SEWERS THAT ARE “PUBLIC” OR “PRIVATE UNDER MSD INSPECTION”:

1. FOR USE IN SANITARY AND COMBINED SEWERS 12 TO 60 INCHES IN DIAMETER IT SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2764 “STANDARD SPECIFICATION FOR 6 TO 60 IN. POLYPROPYLENE (PP) CORRUGATED DOUBLE AND TRIPLE WALL PIPE AND FITTINGS FOR NON- PRESSURE SANITARY SEWER APPLICATIONS.”
2. FOR USE IN STORM SEWERS 12 TO 24 INCHES IN DIAMETER IT SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2881 “STANDARD SPECIFICATION FOR 12 TO 60 IN. POLYPROPYLENE (PP) DUAL WALL PIPE AND FITTINGS FOR NON-PRESSURE STORM SEWER APPLICATIONS;” OR
3. FOR USE IN STORM SEWERS 12 TO 60 INCHES IN DIAMETER IT SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2764 “STANDARD SPECIFICATION FOR 6 TO 60 IN. POLYPROPYLENE (PP) CORRUGATED DOUBLE AND TRIPLE WALL PIPE AND FITTINGS FOR NON- PRESSURE SANITARY SEWER APPLICATIONS.”

IF REINFORCED CONCRETE PIPE IS USED FOR SANITARY OR COMBINED SEWERS LARGER THAN 27”, ALL PIPE AND JOINTS SHALL CONFORM TO ASTM C 361. IN ADDITION, IF THE DIAMETER IS LARGER THAN 48”, THE JOINT TYPE MUST INCLUDE A GASKET THAT IS CONFINED IN A GROOVE IN THE SPIGOT OF THE PIPE.

PART 4 – PIPE SEWER CONSTRUCTION

SECTION B, PIPE FIELD TESTS, PARAGRAPH 2, REACH INTEGRITY TESTING – DELETE THE FIRST SENTENCE AND THE FOLLOWING REPLACEMENT APPLIES:

ALL SANITARY AND COMBINED SEWERS SHALL SUSTAIN A MAXIMUM LEAKAGE LIMIT OF 100 GALLONS/INCH OF PIPE DIAMETER/MILE OF LINE/DAY, AS REQUIRED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES SPECIFICATIONS.

SECTION B, PIPE FIELD TESTS, PARAGRAPH 2, REACH INTEGRITY TESTING, SUBPARAGRAPH C, INFILTRATION/EXFILTRATION TESTING – DELETE THE SIXTH SENTENCE, CONCERNING LEAKAGE LIMITS, AND THE FOLLOWING REPLACEMENT APPLIES:

THE MEASUREMENT OF LEAKAGE SHALL NOT EXCEED 100 GALLONS/INCH OF PIPE DIAMETER/MILE OF LINE/DAY, AS REQUIRED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES SPECIFICATIONS.

SECTION B, PIPE FIELD TESTS, PARAGRAPH 4, MANHOLE TESTING, SUBPARAGRAPH A, VACUUM TESTING – AFTER THE FIRST SENTENCE, THE FOLLOWING ADDITION APPLIES:

THE VACUUM TEST MUST BE PERFORMED PRIOR TO BACKFILLING AROUND THE MANHOLE UNLESS THE CONTRACTOR PROVIDES DOCUMENTATION FROM THE PRECAST MANHOLE MANUFACTURER STATING THAT THE MANHOLE MAY BE VACUUM TESTED AFTER BACKFILLING HAS TAKEN PLACE. THE CONTRACTOR MUST SUBMIT THIS DOCUMENTATION PRIOR TO BACKFILLING AROUND ANY MANHOLE.

SECTION B, PIPE FIELD TESTS, PARAGRAPH 4, MANHOLE TESTING, SUBPARAGRAPH B, EXFILTRATION TESTING – DELETE THE SECOND SENTENCE, CONCERNING LEAKAGE LIMITS, AND THE FOLLOWING ADDITION APPLIES:

FOR EXFILTRATION TESTING, THE ALLOWABLE LEAKAGE LIMIT IS 100 GALLONS/INCH OF PIPE DIAMETER/MILE OF LINE/DAY WHEN THE AVERAGE HEAD ON THE TEST SECTION IS THREE FEET (3’) OR LESS.

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REV	DATE	BY					



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EAST ESSEX AVE
RECONSTRUCTION

GENERAL NOTES
(SHEET 1 OF 1)

PROJECT/JOB NO. STP-9901(653)
MSD PROJECT NO. 22MSD-00471
MSD BASE MAP 23M
DATE PREPARED 5/22/2023
SHEET 2 OF 17

X:\Production\Files\2021\521-0012\CAD\002 General Notes Sheet.dgn 11:50:53 AM 5/22/2023

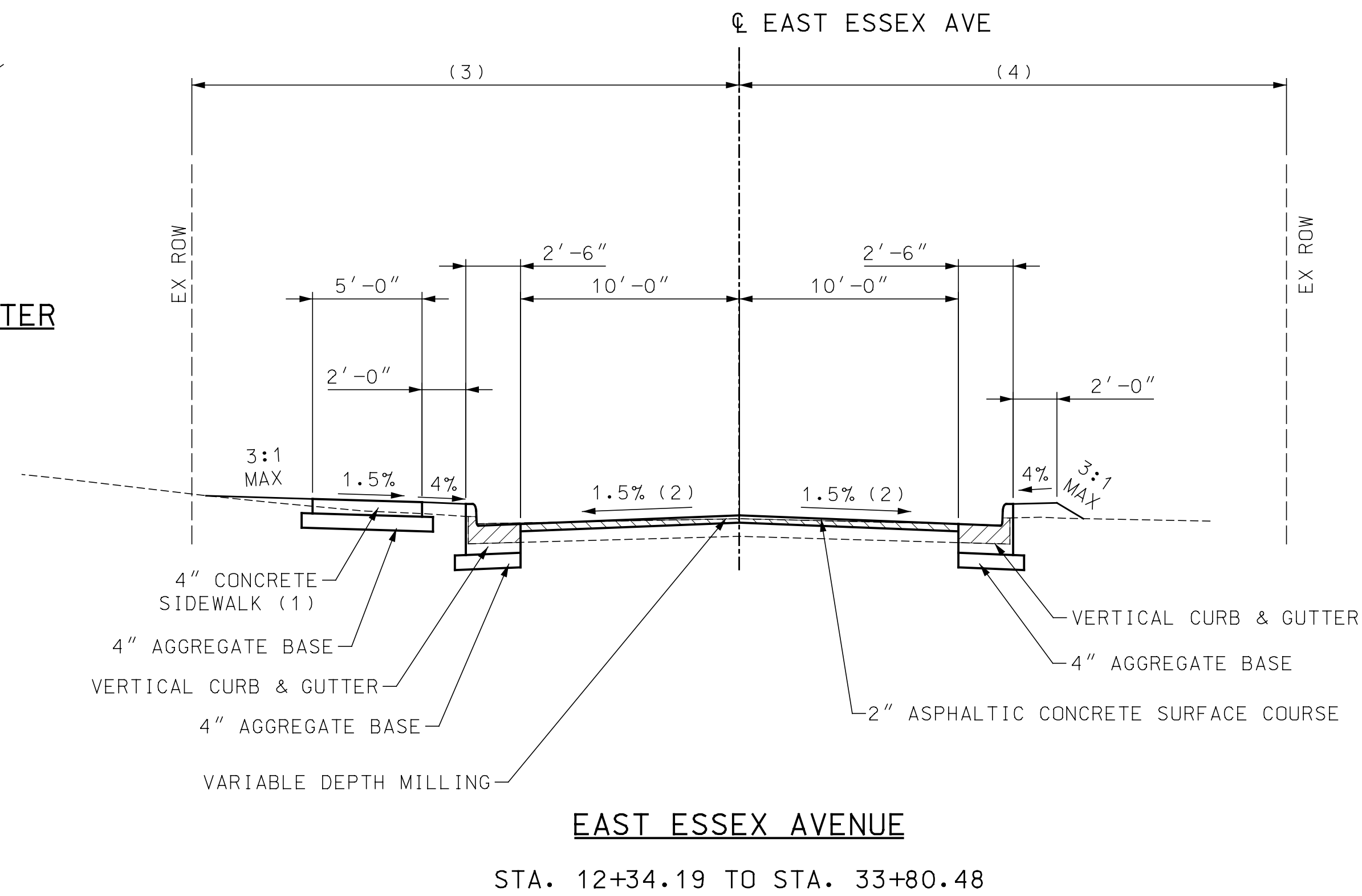
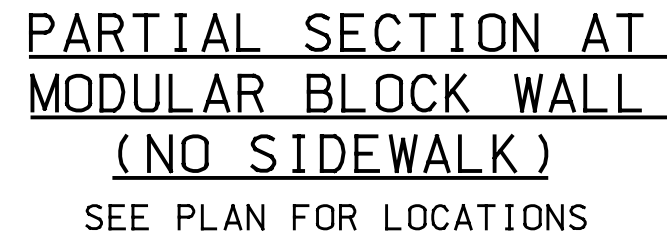
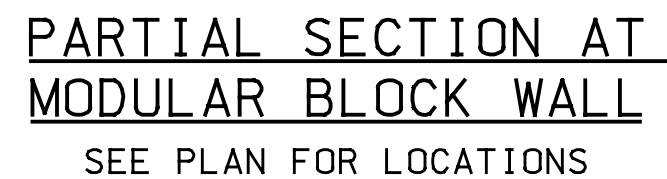
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CERTIFICATE # LICENSE NO. 2002020852

PROJECT/JOB NO.
STP-9901 (653)
 MSD PROJECT NO.
22MSD-00471
 MSD BASE MAP
23M
 DATE PREPARED
5/22/2023
 SHEET
2 OF 17

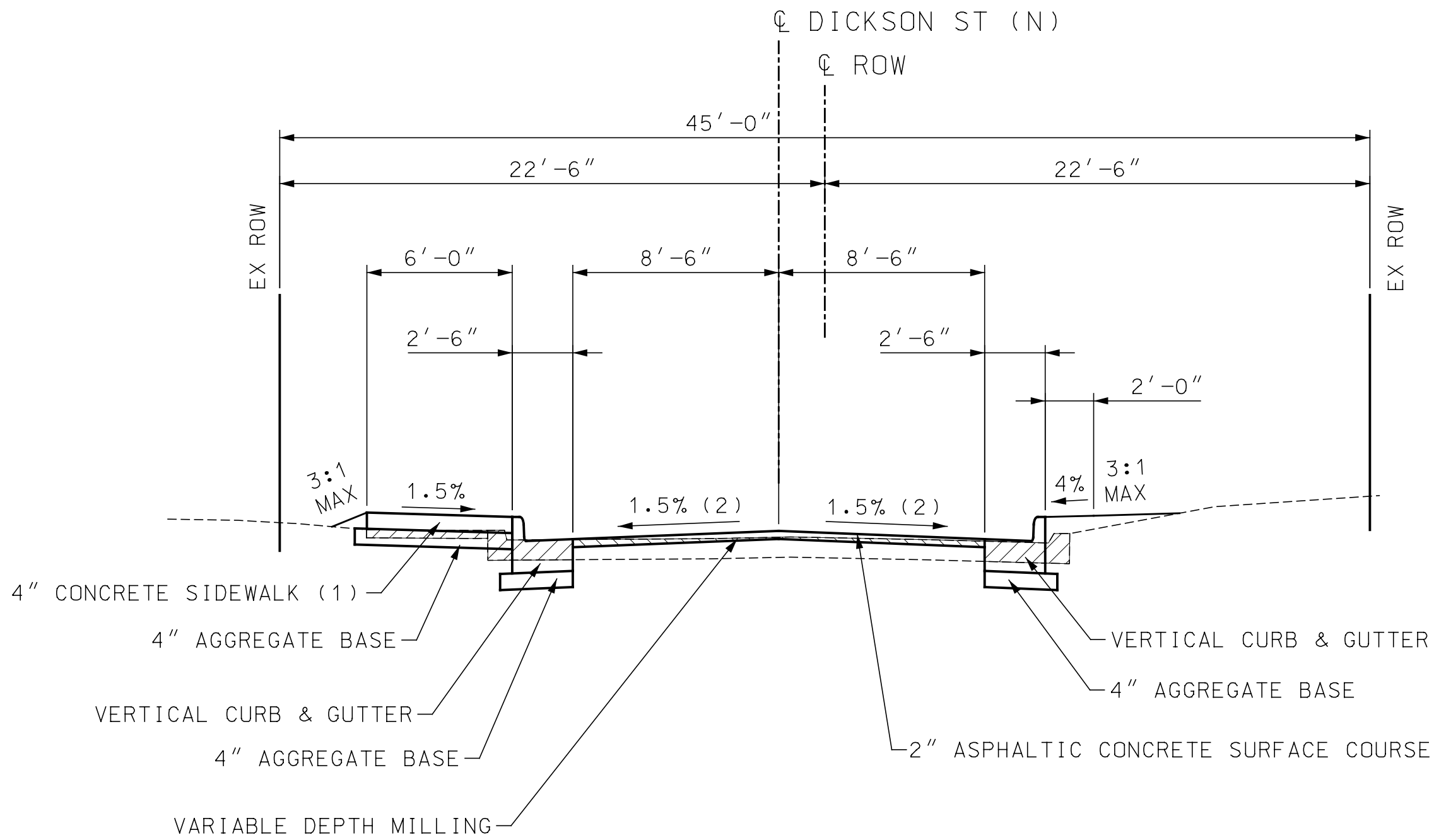
LOCHMUELLER PROJECT NO. 512-0012

1. SIDEWALK SHALL BE CONSTRUCTED TO PROVIDE A MINIMUM 4' WIDE ACCESSIBLE ROUTE IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
2. SLOPES MAY VARY AT INTERSECTIONS. SEE INTERSECTION DETAILS FOR LOCATION AND LENGTH OF TRANSITIONS.
3. ROW VARIES 25' 12+45.37 TO 20+36.17
25' TO 27'-4" STA 20+36.17 TO 21+23.20
17' STA 22+14.55 TO 26+30.69
20' STA 26+83.64 TO 28+31.39 AND STA 32+64.28 TO 33+65.00
4. ROW VARIES 25' 12+45.37 TO 19+58.60
23' TO 29'-5" STA 19+58.60 TO 20+98.86
12'-9" TO 13' STA 21+49.95 TO STA 25+55.65
18' STA 25+55.65 TO STA 27+95.65
13' STA 27+95.65 TO STA 28+31.39 AND STA 32+64.28 TO 33+65.00



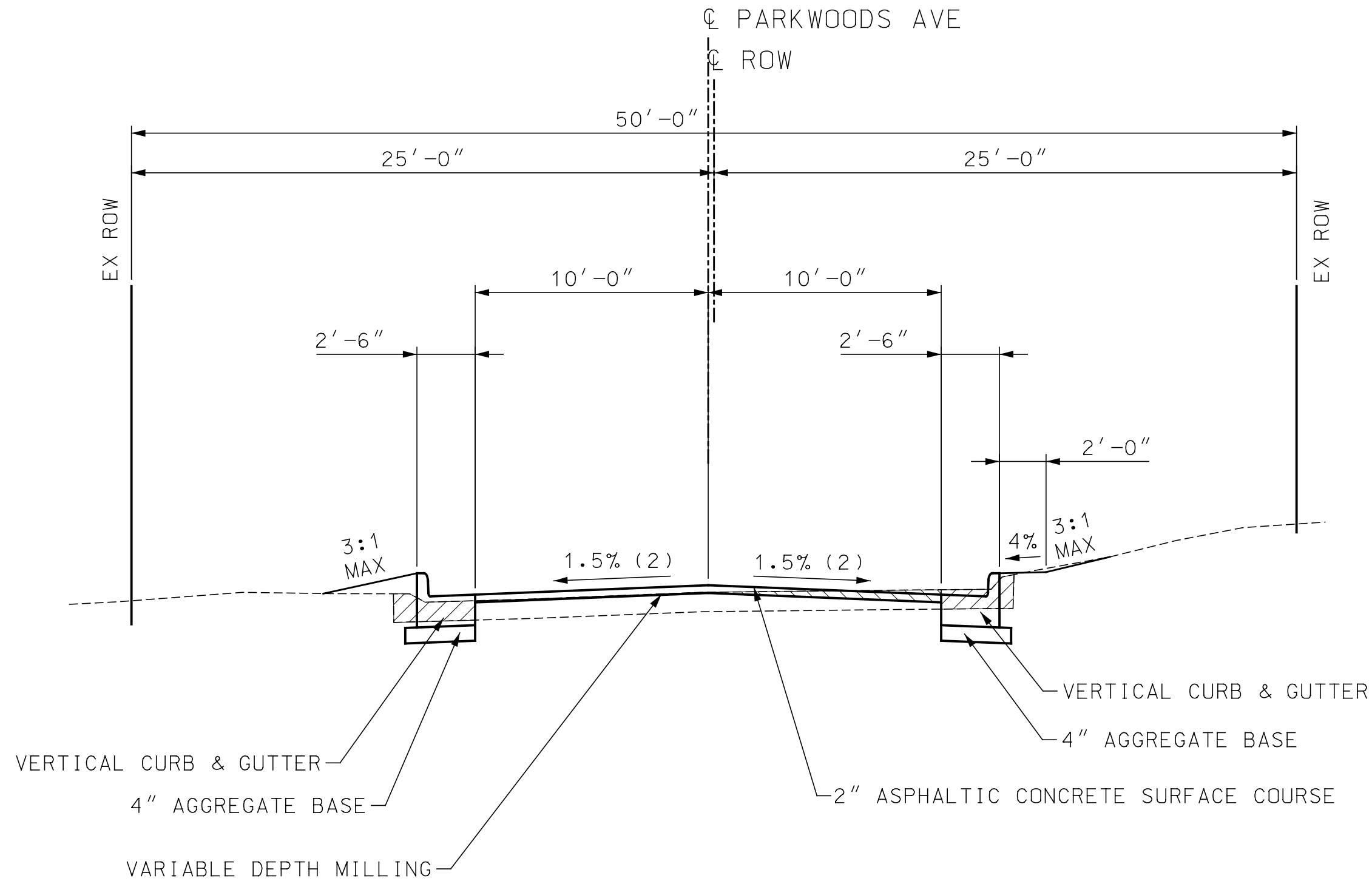
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2. SLOPES MAY VARY AT INTERSECTIONS. SEE INTERSECTION DETAILS FOR LOCATION AND LENGTH OF TRANSITIONS.



DICKSON STREET (NORTH)

STA. 1+00.00 TO STA. 1+41.11



PARKWOODS AVENUE

STA. 1+00.00 TO STA. 1+43.58

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**EAST ESSEX AVE
RECONSTRUCTION**

**TYPICAL SECTIONS
SHEET 2 OF 4**

PROJECT/JOB NO.
STP-9901(653)

MSD PROJECT NO.
22MSD-00471

MSD BASE MAP
23M

DATE PREPARED
5/22/2023

SHEET
3 OF 17

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EAST ESSEX AVE
RECONSTRUCTION

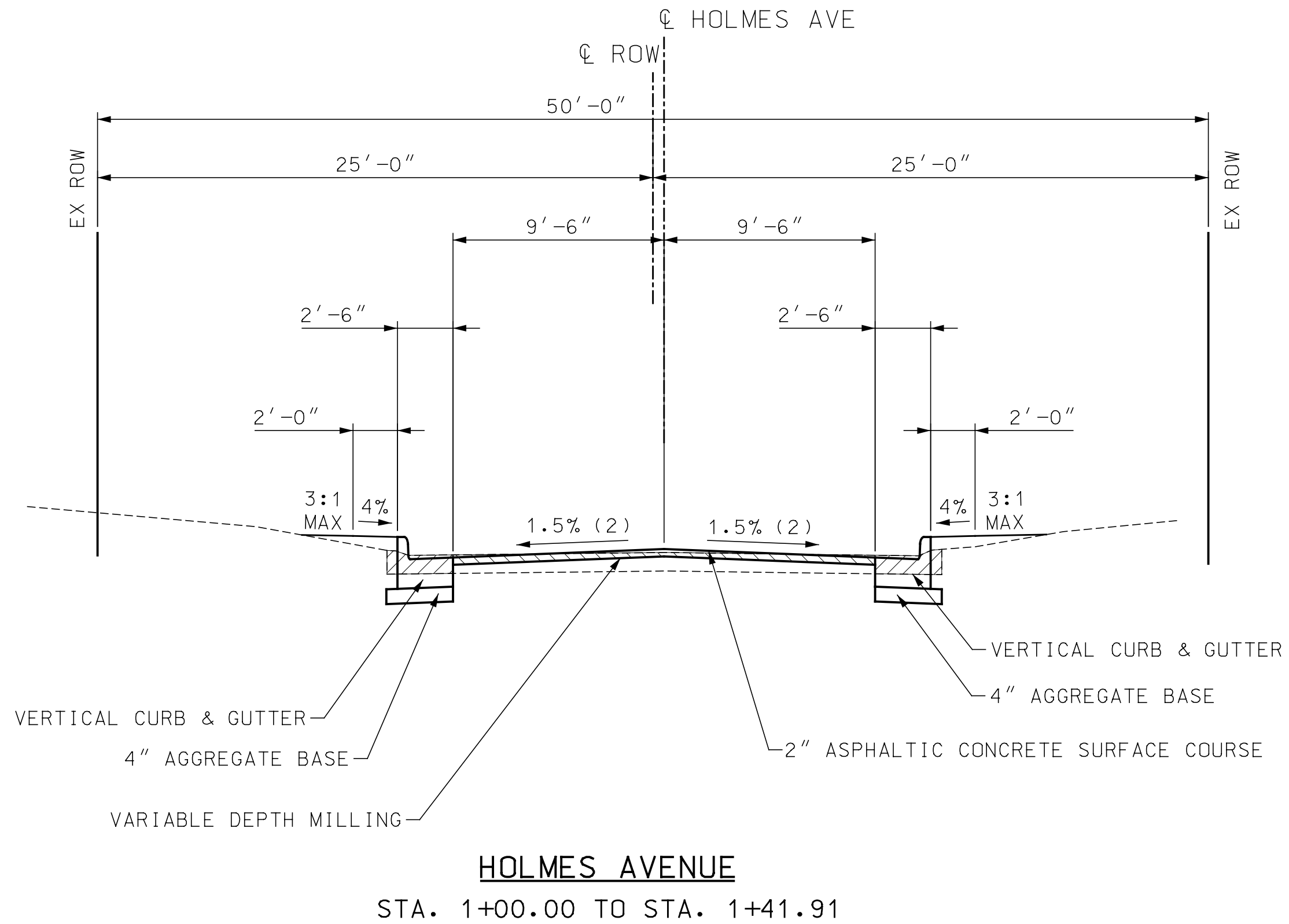
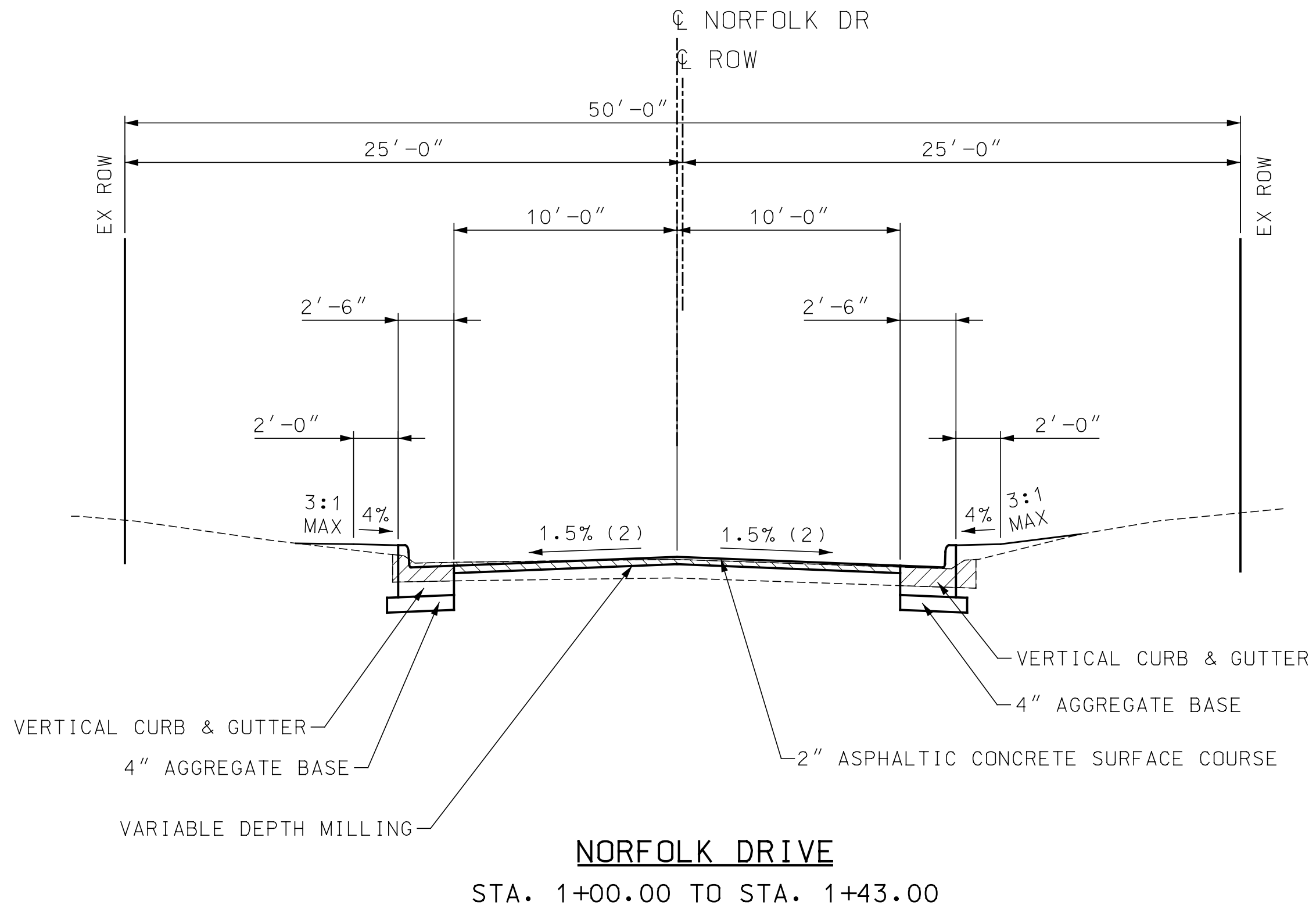
TYPICAL SECTIONS
SHEET 3 OF 4

PROJECT/JOB NO. STP-9901(653)
MSD PROJECT NO. 22MSD-00471
MSD BASE MAP 23M
DATE PREPARED 5/22/2023
SHEET 4 OF 17

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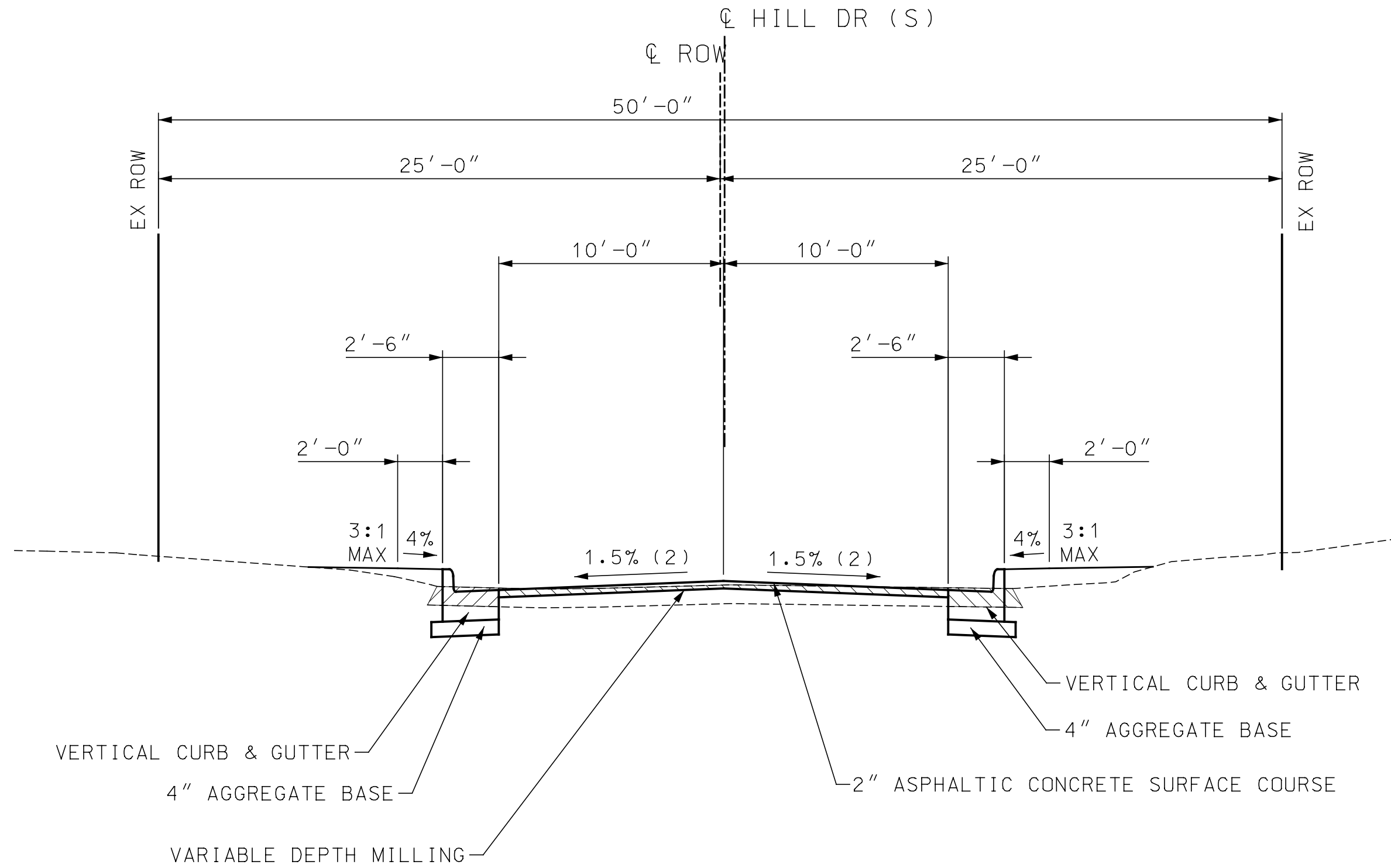
NOTES:

- SIDEWALK SHALL BE CONSTRUCTED TO PROVIDE A MINIMUM 4' WIDE ACCESSIBLE ROUTE IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
- SLOPES MAY VARY AT INTERSECTIONS. SEE INTERSECTION DETAILS FOR LOCATION AND LENGTH OF TRANSITIONS.

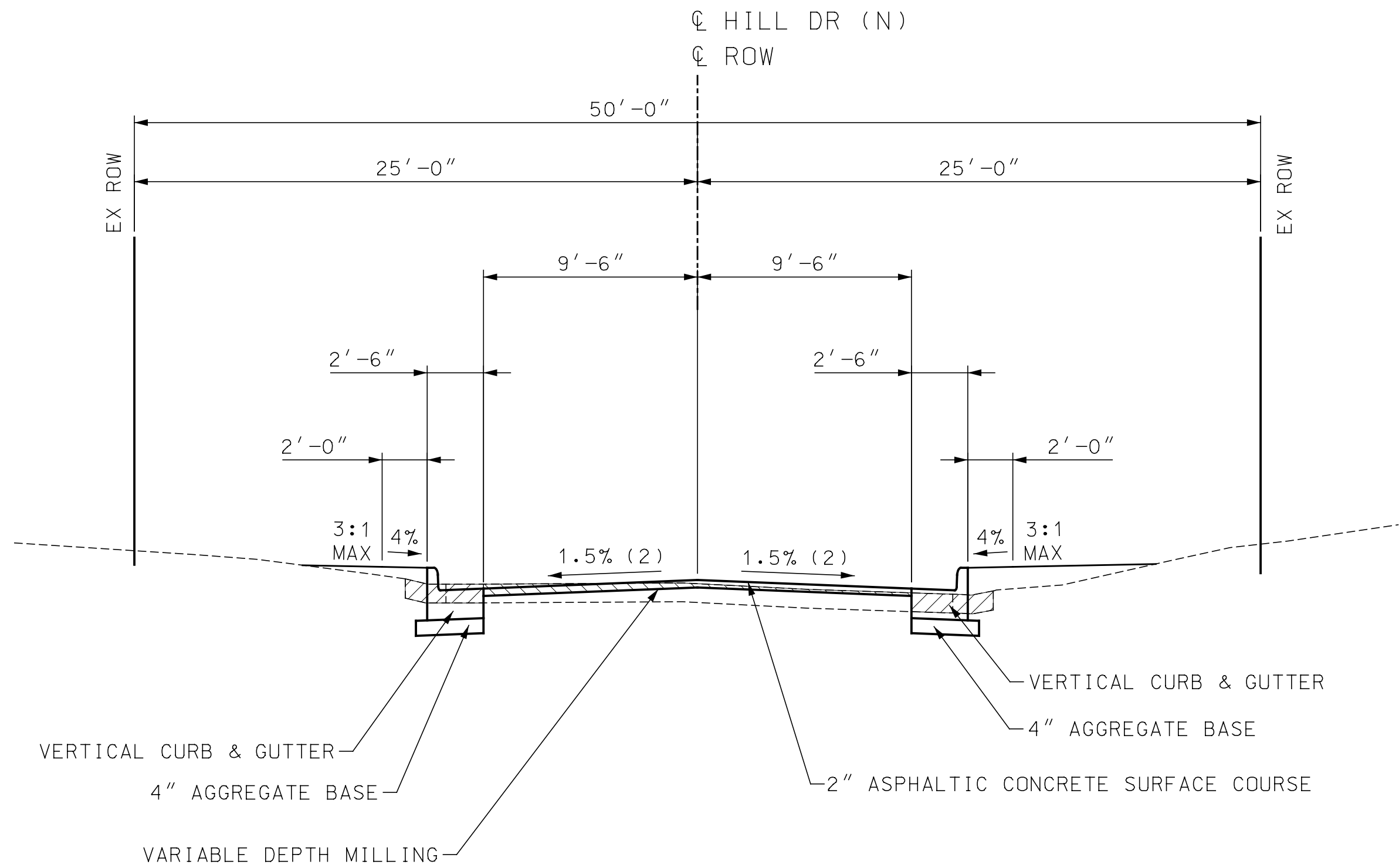


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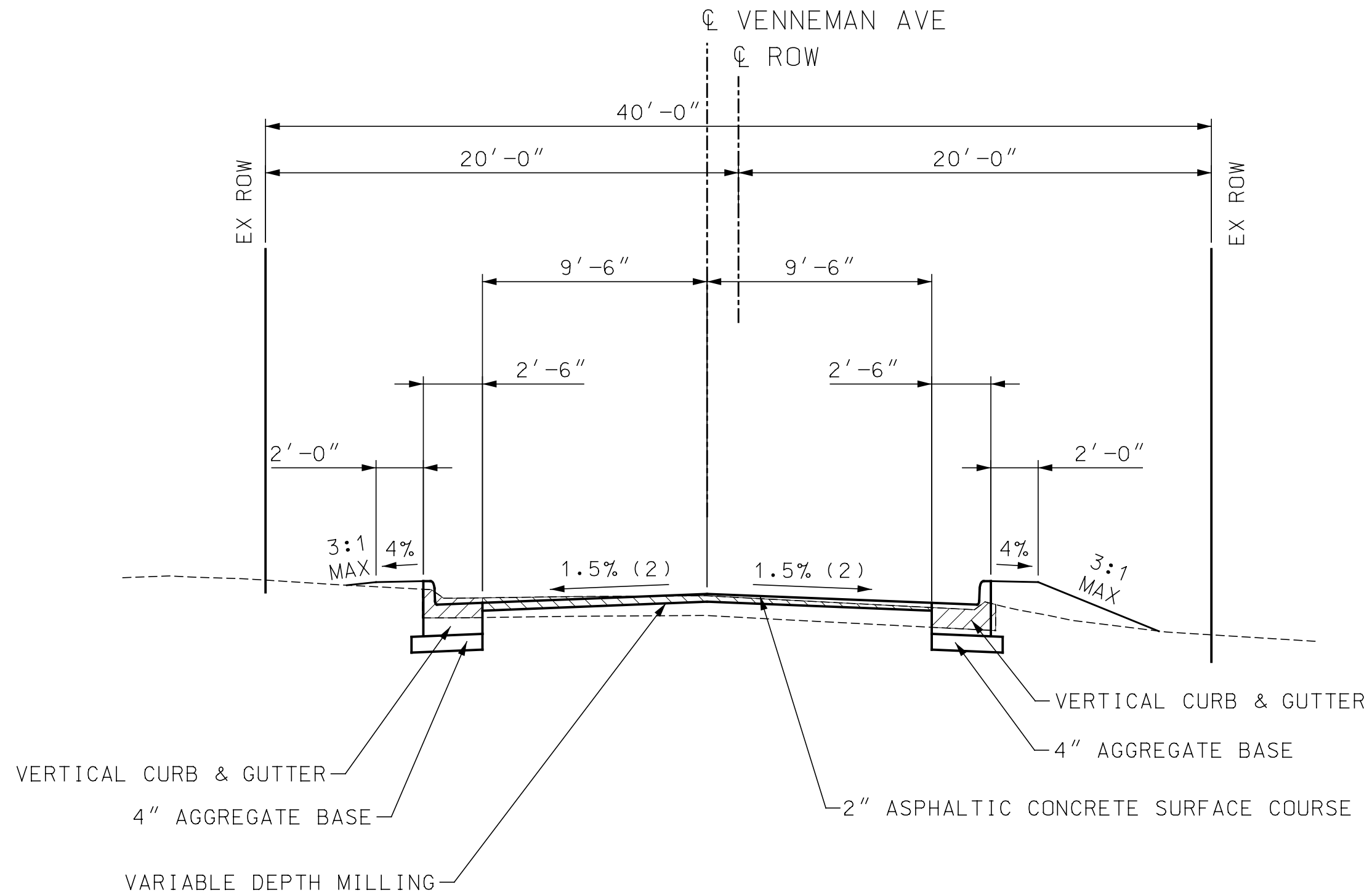
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2. SLOPES MAY VARY AT INTERSECTIONS. SEE INTERSECTION DETAILS FOR LOCATION AND LENGTH OF TRANSITIONS.



HILL DRIVE (SOUTH)
STA. 1+00.00 TO STA. 1+45.41



HILL DRIVE (NORTH)
STA. 1+00.00 TO STA. 1+44.44



VENNEMAN AVENUE
STA. 1+00.00 TO STA. 1+48.29

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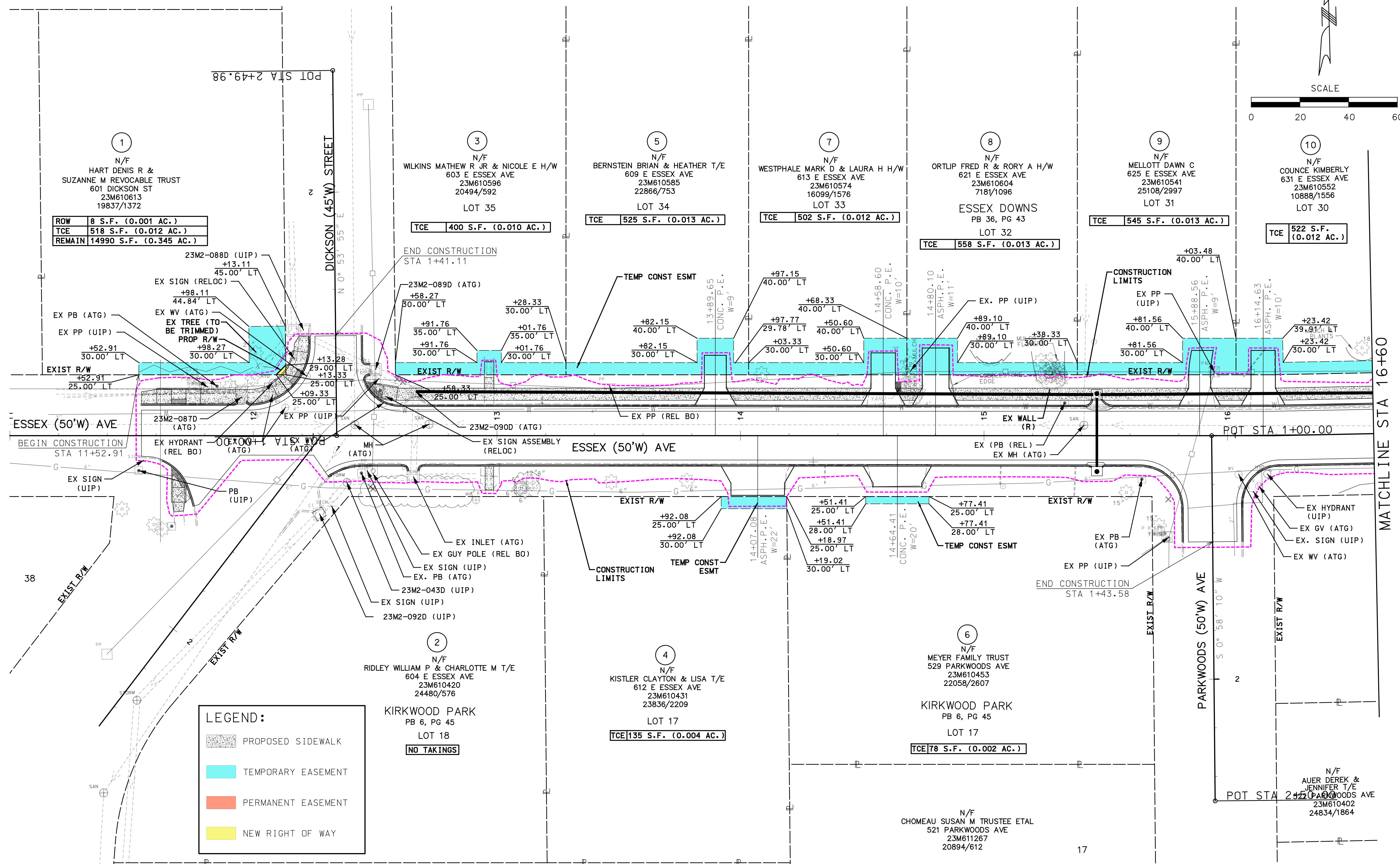
REVISIONS		DESCRIPTION	
REV	DATE	BY	DESCRIPTION

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**EAST ESSEX AVE
RECONSTRUCTION**

**TYPICAL SECTIONS
SHEET 4 OF 4**

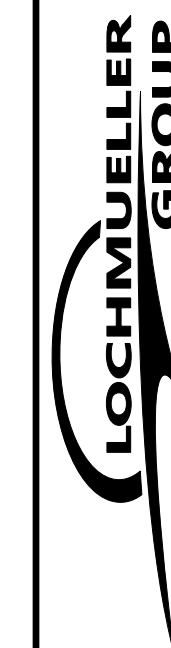
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SHEET	5 OF 17



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EAST ESSEX AVE
RECONSTRUCTIONROW PLAN
SHEET 1 OF 5

PROJECT/JOB NO.
STP-9901 (653)

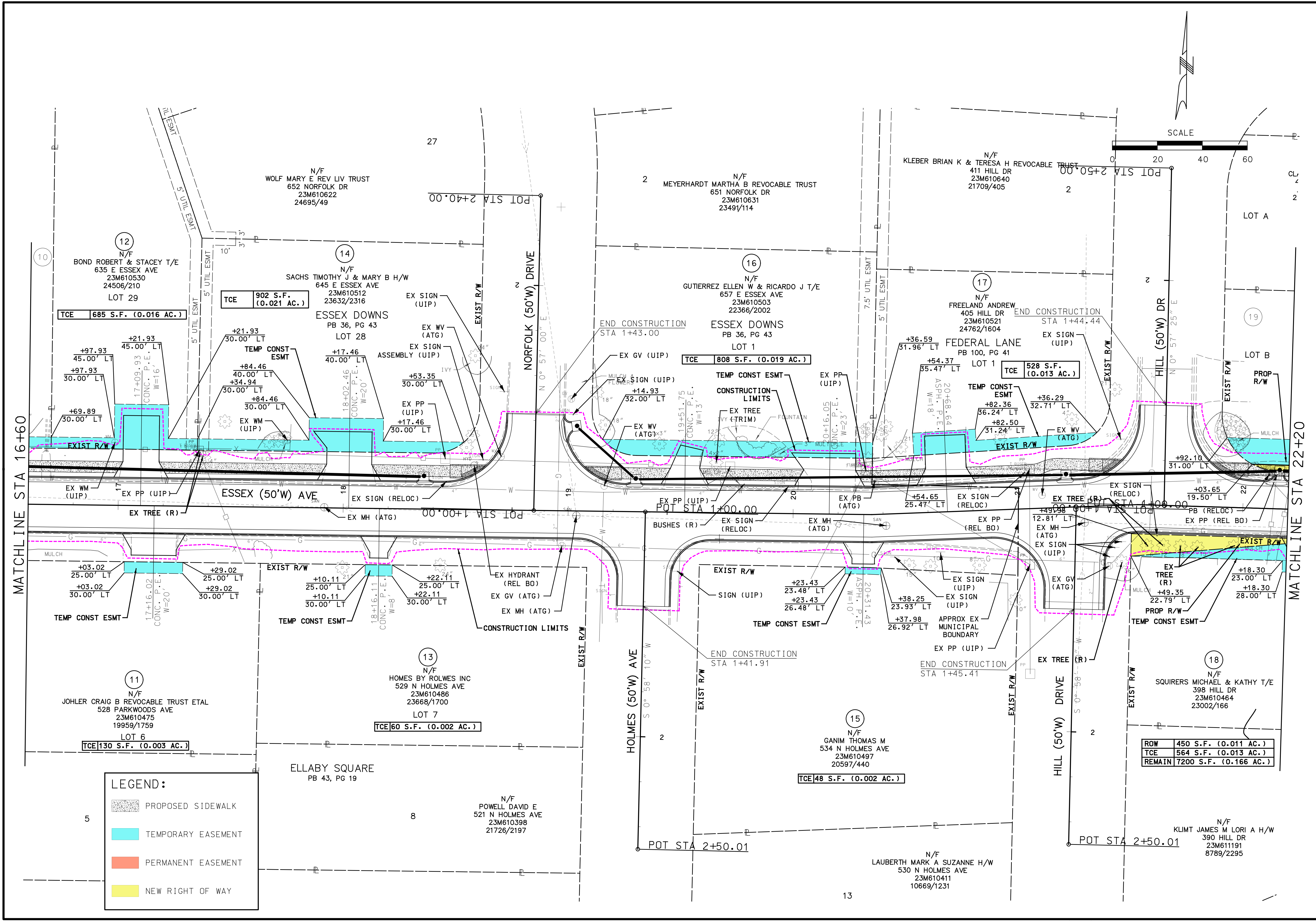
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MSD BASE MAP
23M

DATE PREPARED
5/22/2023

SHEET
6 OF 17

51:09 AM 5/22/2023



LEGEND:

- PROPOSED SIDEWALK
- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- NEW RIGHT OF WAY

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**EAST ESSEX AVE
RECONSTRUCTION**

ROW PLAN

SHEET 2 OF 5

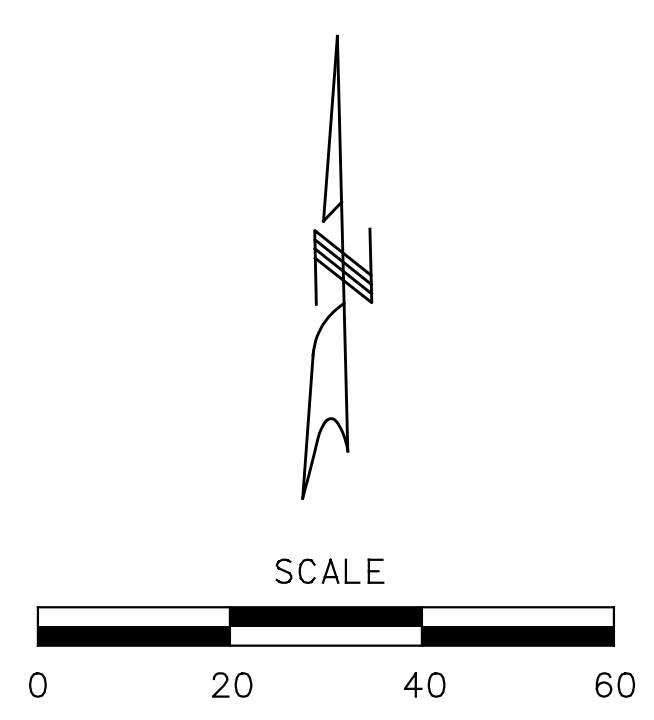
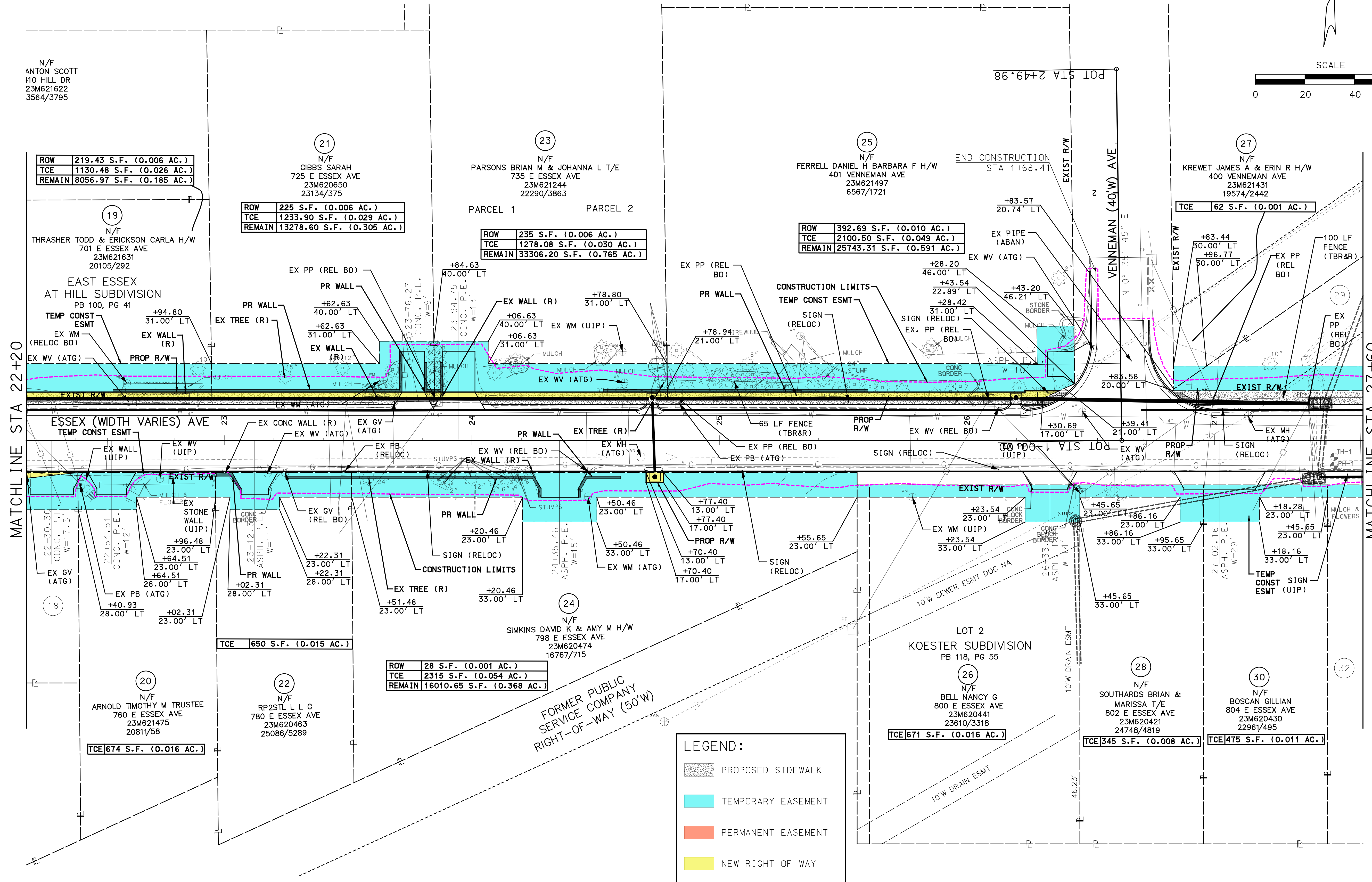
PROJECT/JOB NO.
STP-9901 (653)

MSD PROJECT NO.
22MSD-00471

MSD BASE MAP
23M

DATE PREPARED
5/22/2023

SHEET
7 OF 17



**PRELIMINARY
PLANS
NOT FOR
CONSTRUCTION**

**DISCLAIMER OF
RESPONSIBILITY**
I hereby specify that the documents intended to be authorized by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part of the engineering project or survey.

REVISIONS		DESCRIPTION
REV	DATE	BY



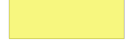
LOCHMULLER GROUP
411 N 10TH STREET, SUITE 200
SAINT LOUIS, MISSOURI 63101
P (314) 621-3395 F (314) 621-3288
WWW.LOCHMULLERGROUP.COM
MISSOURI STATE ENGINEERING CORPORATION
CERTIFICATE/LICENSE NO. 2002011852

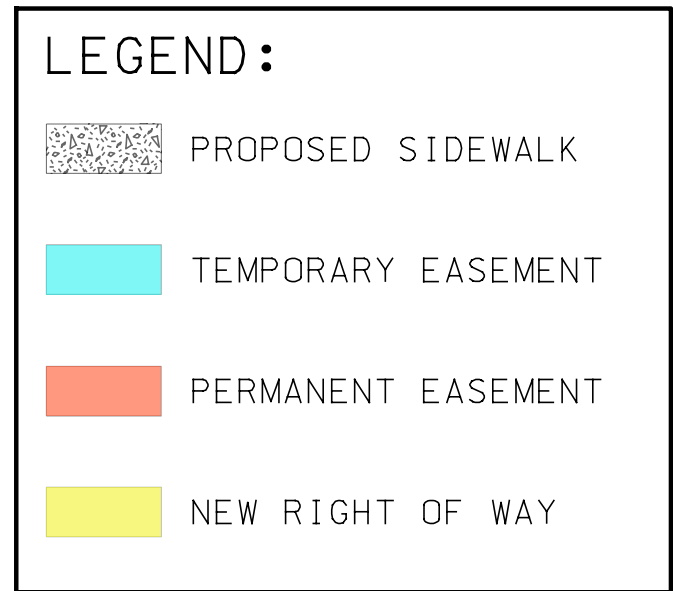
**EAST ESSEX AVE
RECONSTRUCTION**

**ROW PLAN
SHEET 3 OF 5**

PROJECT/JOB NO. STP-9901 (653)
MSD PROJECT NO. 22MSD-00471
MSD BASE MAP 23M
DATE PREPARED 5/22/2023
SHEET 8 OF 17

LEGEND:

-  PROPOSED SIDEWALK
-  TEMPORARY EASEMENT
-  PERMANENT EASEMENT
-  NEW RIGHT OF WAY



PROJECT/JOB NO. STP-9901 (653)
MSD PROJECT NO. 22MSD-00471
MSD BASE MAP 23M
DATE PREPARED 5/22/2023
SHEET 10 OF 17

LOCHMUELLER PROJECT NO. 512-0012