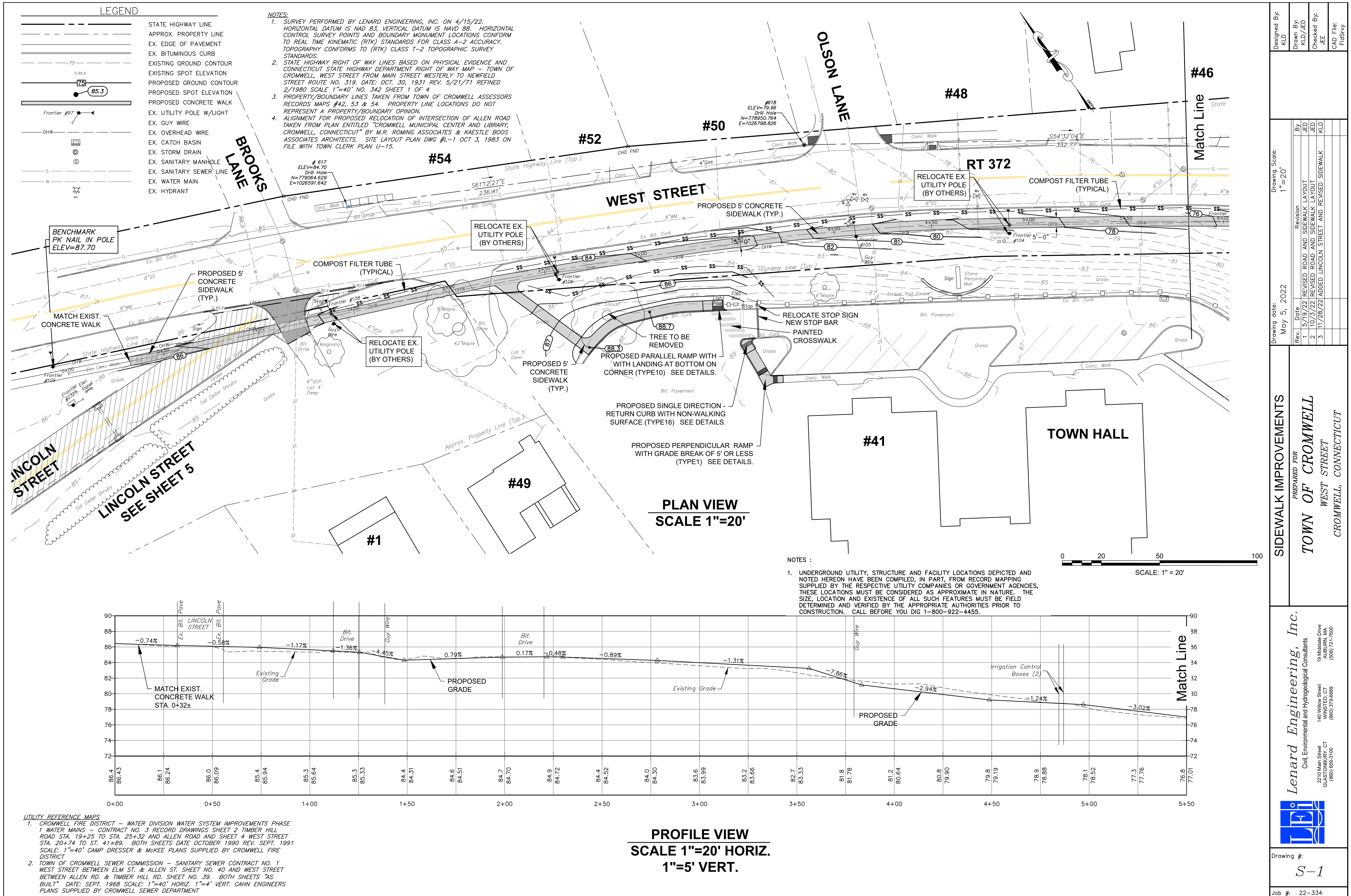
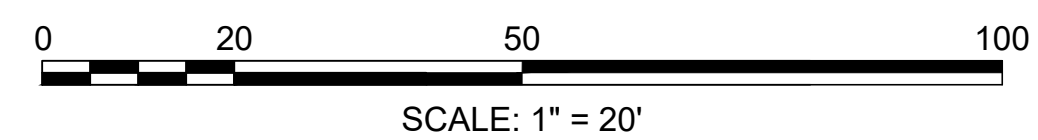
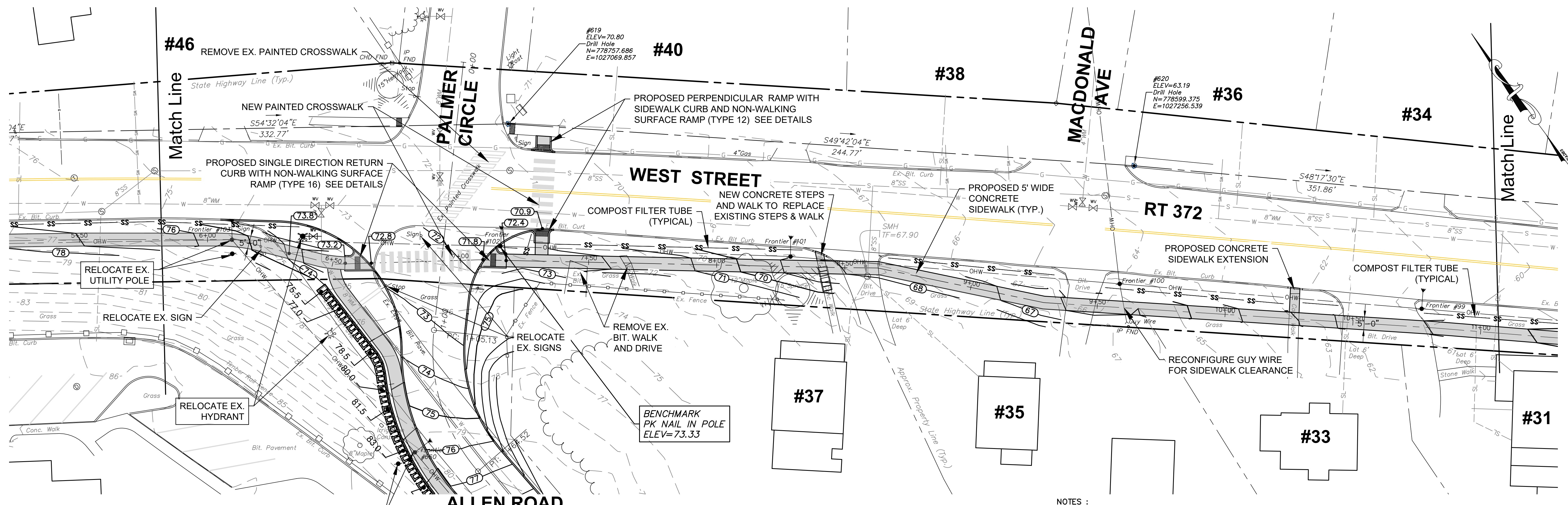
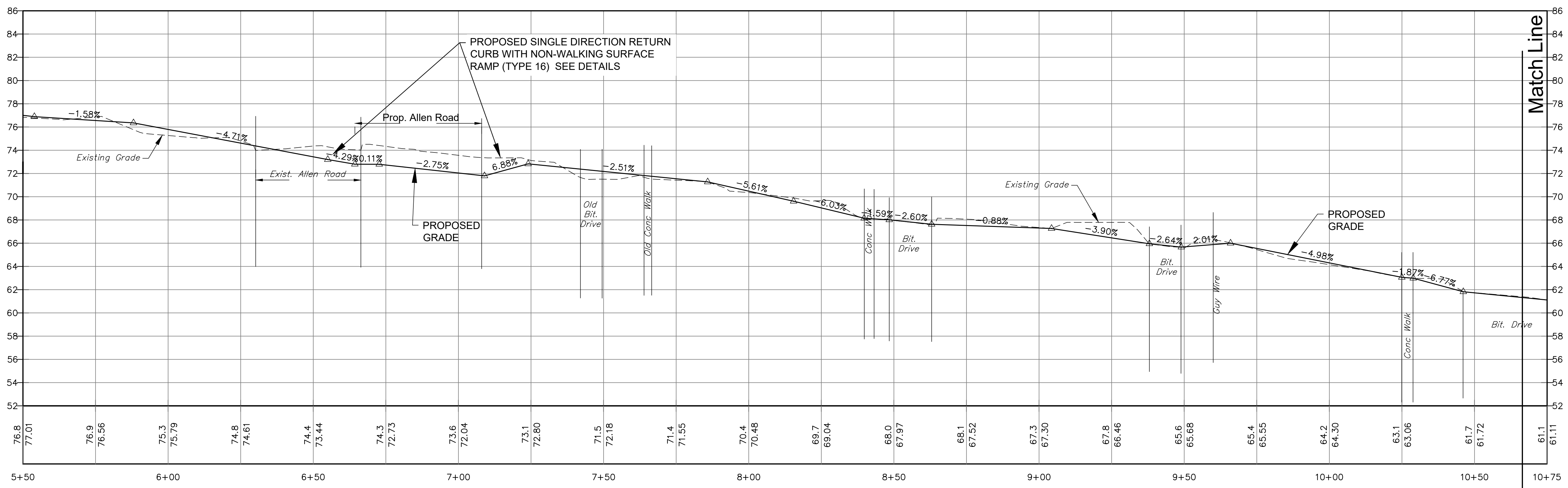






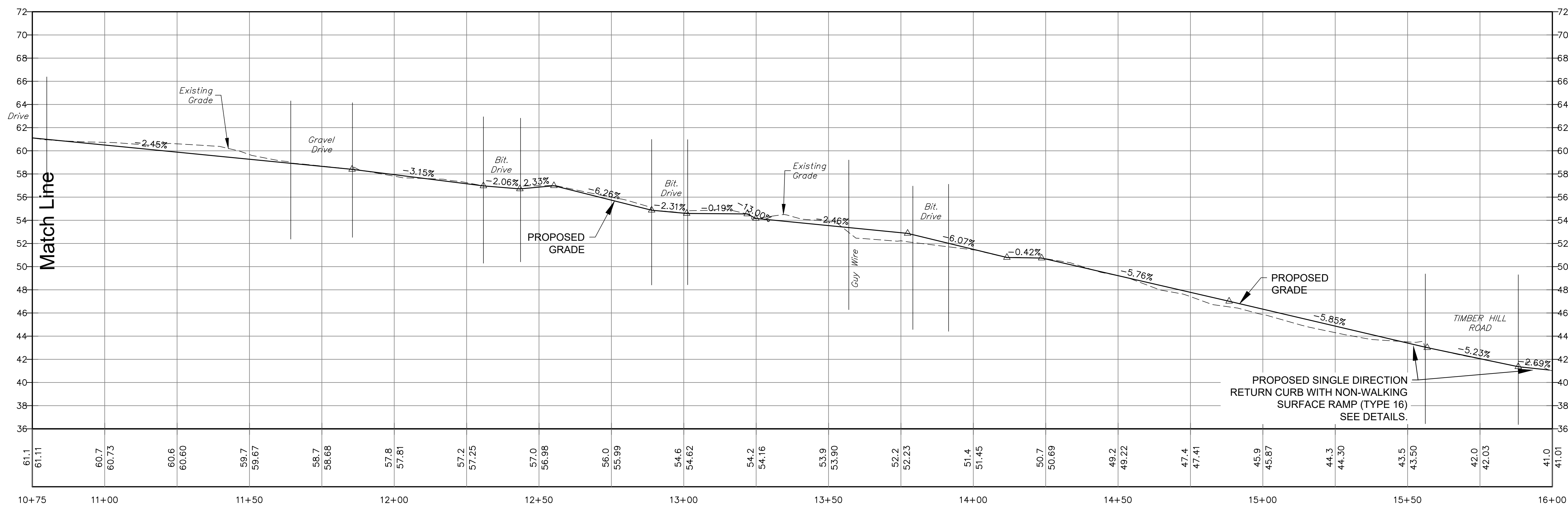
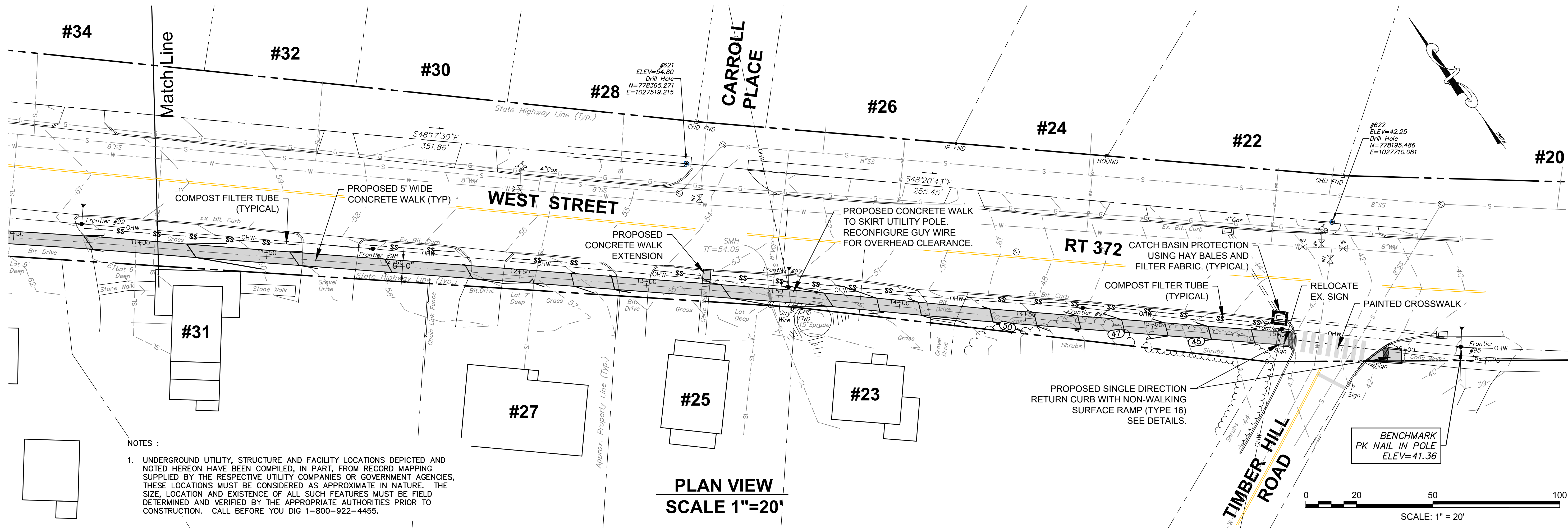
PLAN VIEW  
SCALE 1"=20'

- NOTES :
1. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENT AGENCIES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.

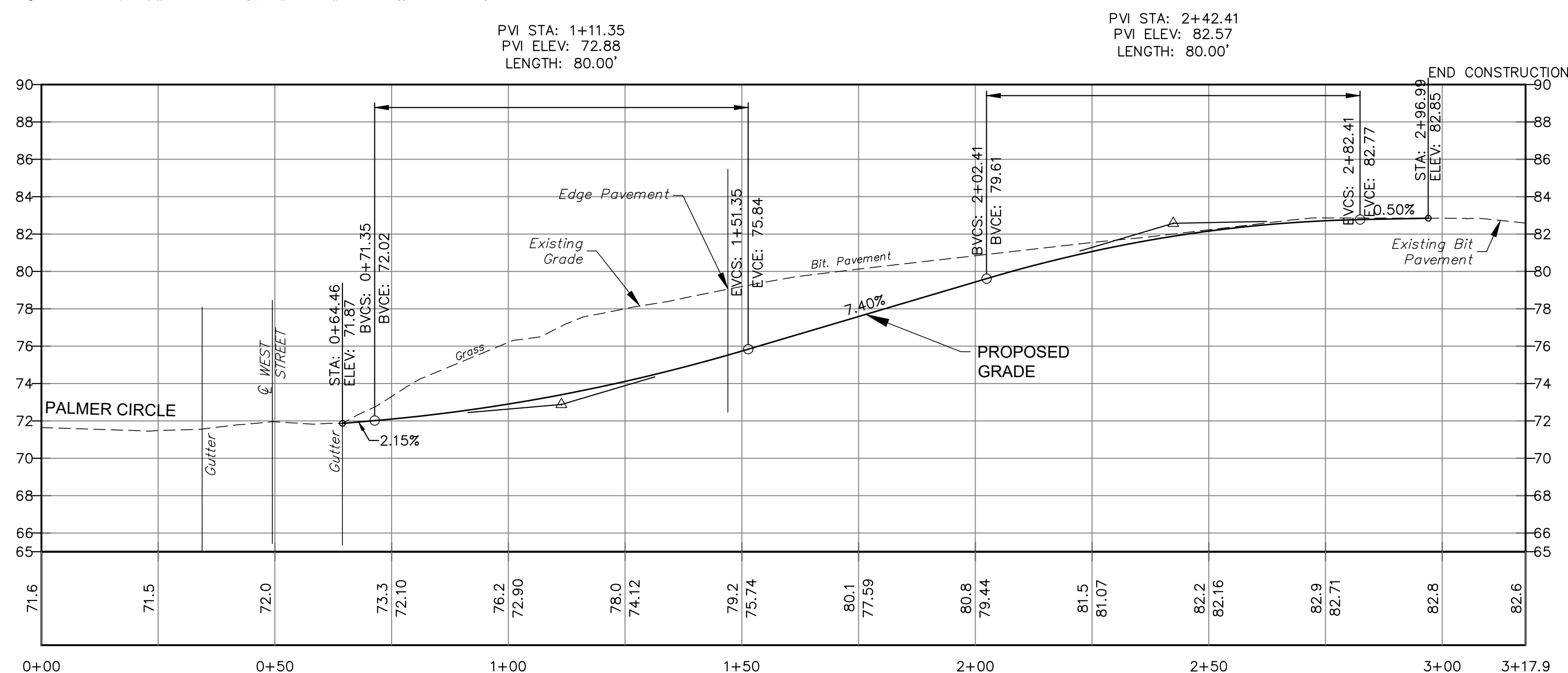
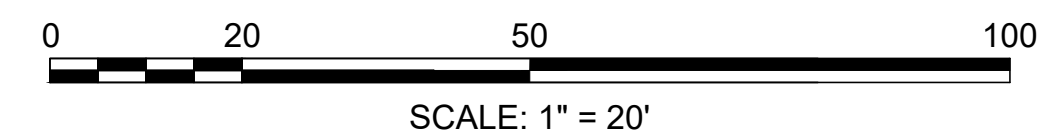
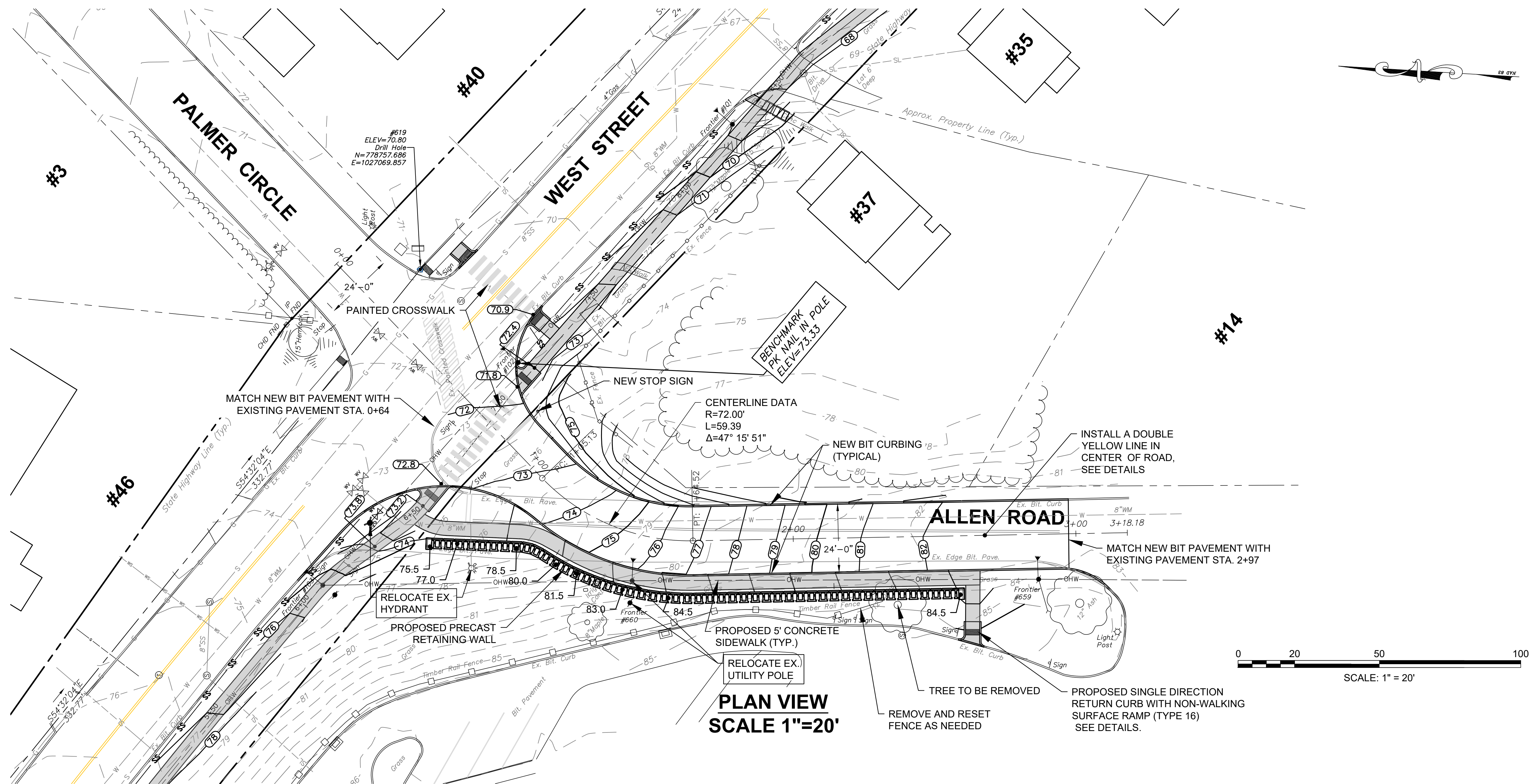


PROFILE VIEW  
SCALE 1"=20' HORIZ.  
1"=5' VERT.

|                                                                                                                                                                                                                  |          |                                               |  |                    |  |                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------|--|--------------------|--|----------------------|--|
| Designed By:<br>KLD                                                                                                                                                                                              |          | Drawn By:<br>KLD/JED                          |  | Checked By:<br>JEE |  | CAD File:<br>FidSrvy |  |
| Drawing Scale:<br>1"=20'                                                                                                                                                                                         |          |                                               |  |                    |  |                      |  |
| Drawing date:<br>May 5, 2022                                                                                                                                                                                     |          |                                               |  |                    |  |                      |  |
| Revision                                                                                                                                                                                                         |          |                                               |  |                    |  |                      |  |
| Rev.                                                                                                                                                                                                             | Date     | BY                                            |  |                    |  |                      |  |
| 1                                                                                                                                                                                                                | 5/19/22  | REVISED ROAD AND SIDEWALK LAYOUT JED          |  |                    |  |                      |  |
| 2                                                                                                                                                                                                                | 10/3/22  | REVISED ROAD AND SIDEWALK LAYOUT JED          |  |                    |  |                      |  |
| 3                                                                                                                                                                                                                | 11/28/22 | ADDED LINCOLN STREET AND REVISED SIDEWALK KLD |  |                    |  |                      |  |
| SIDEWALK IMPROVEMENTS                                                                                                                                                                                            |          |                                               |  |                    |  |                      |  |
| PREPARED FOR<br>TOWN OF CROMWELL<br>WEST STREET<br>CROMWELL, CONNECTICUT                                                                                                                                         |          |                                               |  |                    |  |                      |  |
| Lenard Engineering, Inc.<br>Civil, Environmental and Hydrogeological Consultants<br>2210 Main Street<br>GLASTONBURY, CT<br>(860) 659-3100<br>19 Midstate Drive<br>AUBURN, MA<br>(603) 379-6666<br>(860) 721-7000 |          |                                               |  |                    |  |                      |  |
| Drawing #:<br>S-2                                                                                                                                                                                                |          |                                               |  |                    |  |                      |  |
| Job #:<br>22-334                                                                                                                                                                                                 |          |                                               |  |                    |  |                      |  |



|                                                                                                                                                                                                                                                     |                      |                    |                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|-------------------------------------------|
| Designed By:<br>JEE                                                                                                                                                                                                                                 | Drawn By:<br>KLD/JED | Checked By:<br>JEE | CAD File:<br>FidSurvey                    |
| Drawing Scale:<br>1"=20'                                                                                                                                                                                                                            |                      |                    |                                           |
| Drawing date:<br>May 5, 2022                                                                                                                                                                                                                        |                      |                    |                                           |
| Revision                                                                                                                                                                                                                                            |                      |                    |                                           |
| Rev.                                                                                                                                                                                                                                                | Date                 | BY                 | REVISION                                  |
| 1                                                                                                                                                                                                                                                   | 5/19/22              | JED                | REVISED ROAD AND SIDEWALK LAYOUT          |
| 2                                                                                                                                                                                                                                                   | 10/3/22              | JED                | REVISED ROAD AND SIDEWALK LAYOUT          |
| 3                                                                                                                                                                                                                                                   | 11/28/22             | KLD                | ADDED LINCOLN STREET AND REVISED SIDEWALK |
| SIDEWALK IMPROVEMENTS<br>PREPARED FOR<br>TOWN OF CROMWELL<br>WEST STREET<br>CROMWELL, CONNECTICUT                                                                                                                                                   |                      |                    |                                           |
| Lenard Engineering, Inc.<br>Civil, Environmental and Hydrogeological Consultants<br>2210 Main Street<br>GASTONBURY, CT<br>(860) 659-3100<br>140 Willow Street<br>WINSTED, CT<br>(860) 379-6666<br>19 Midstate Drive<br>AUBURN, MA<br>(508) 721-7000 |                      |                    |                                           |
| Drawing #:<br>S-3                                                                                                                                                                                                                                   |                      |                    |                                           |
| Job #:<br>22-334                                                                                                                                                                                                                                    |                      |                    |                                           |



NOTES :

1. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENT AGENCIES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.

|                           |          |                                           |     |                   |
|---------------------------|----------|-------------------------------------------|-----|-------------------|
| Drawing date: May 5, 2022 |          | Drawing Scale: 1"=20'                     |     | Designed By: KLD  |
| Rev.                      | Date     | Revision                                  | BY  | Drawn By: KLD/JED |
| 1                         | 5/19/22  | REVISED ROAD AND SIDEWALK LAYOUT          | JED | Checked By: JEE   |
| 2                         | 10/3/22  | REVISED ROAD AND SIDEWALK LAYOUT          | JED | CAD File: FldSrvy |
| 3                         | 11/28/22 | ADDED LINCOLN STREET AND REVISED SIDEWALK | KLD |                   |

**SIDEWALK IMPROVEMENTS**

PREPARED FOR

**TOWN OF CROMWELL**

WEST STREET

CROMWELL, CONNECTICUT

**Lenard Engineering, Inc.**

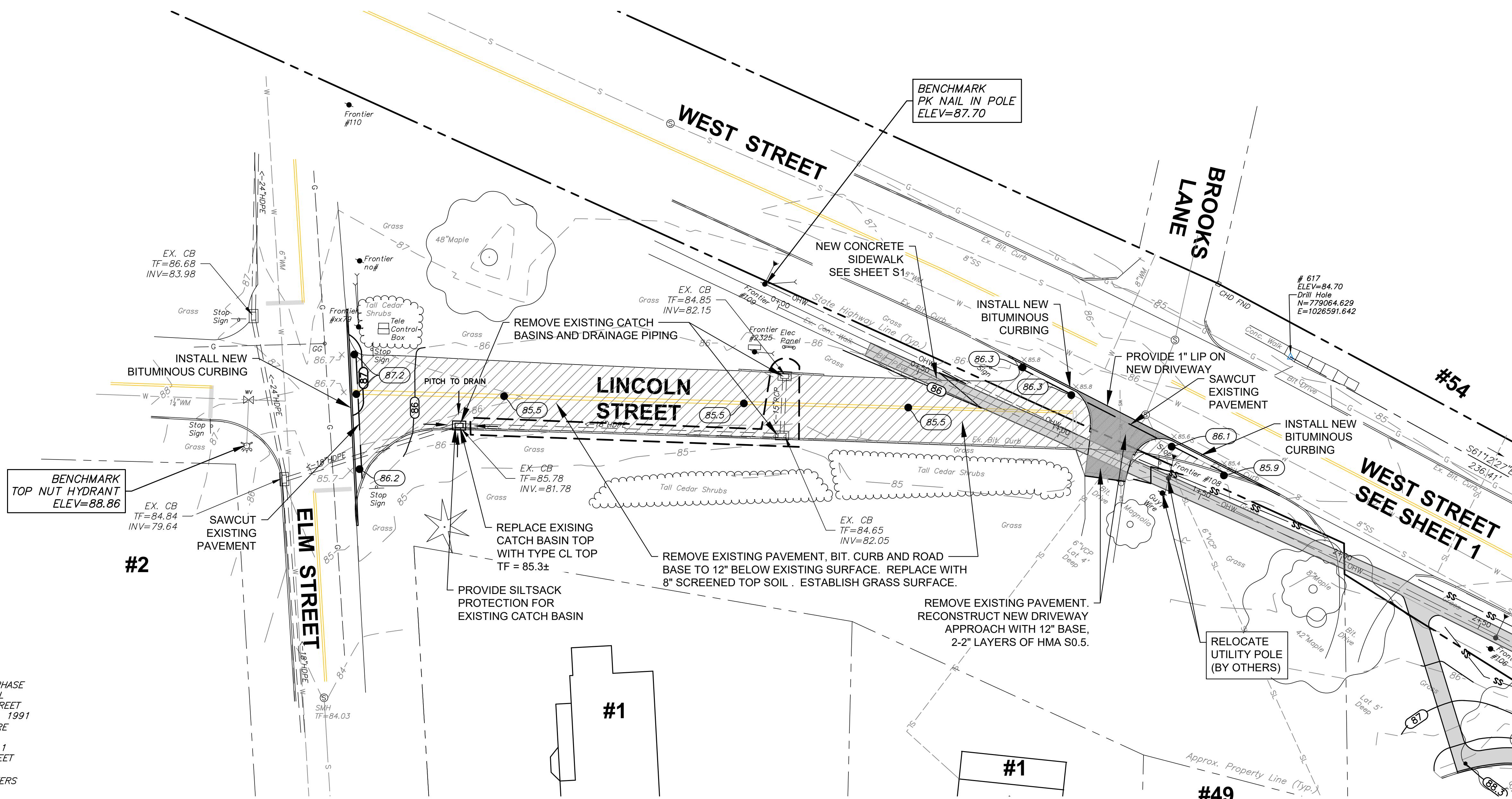
Civil, Environmental and Hydrogeological Consultants

2210 Main Street  
GLASTONBURY, CT  
(860) 659-3100

19 Midstate Drive  
AUBURN, MA  
(603) 379-6666

Drawing #: S-4

Job #: 22-334



0 20 50 100

SCALE: 1" = 20'

1. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENT AGENCIES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.

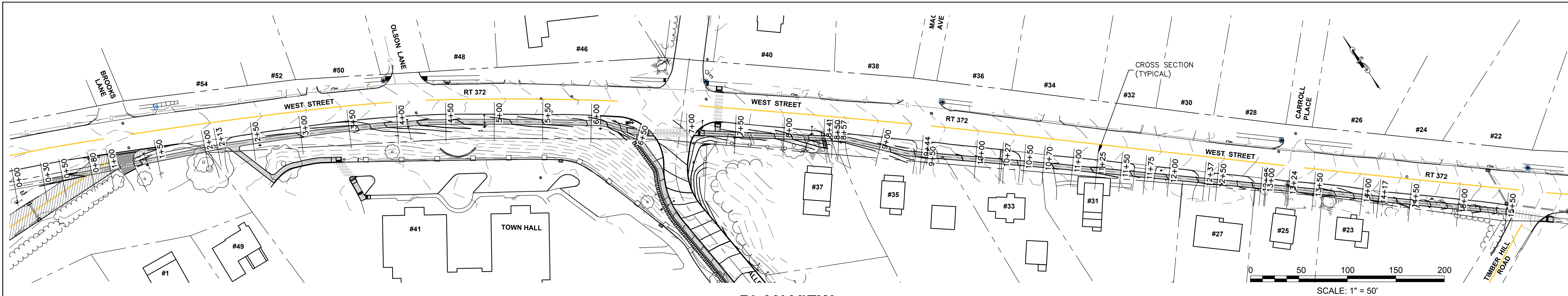
 **Lenard Engineering, Inc.**  
 Civil, Environmental and Hydrogeological Consultants

|                                                       |                                                    |                                                  |
|-------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|
| 2210 Main Street<br>GLASTONBURY, CT<br>(860) 659-3100 | 140 Willow Street<br>WINSTED, CT<br>(860) 379-0689 | 19 Mistade Drive<br>AUBURN, MA<br>(508) 721-1600 |
|-------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|

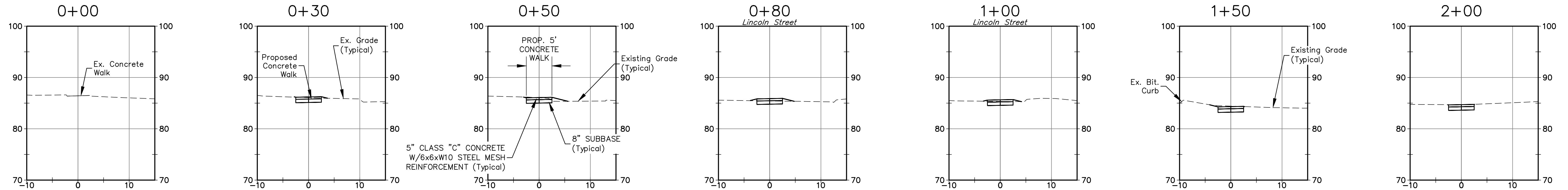
Drawing #:

*S-5*

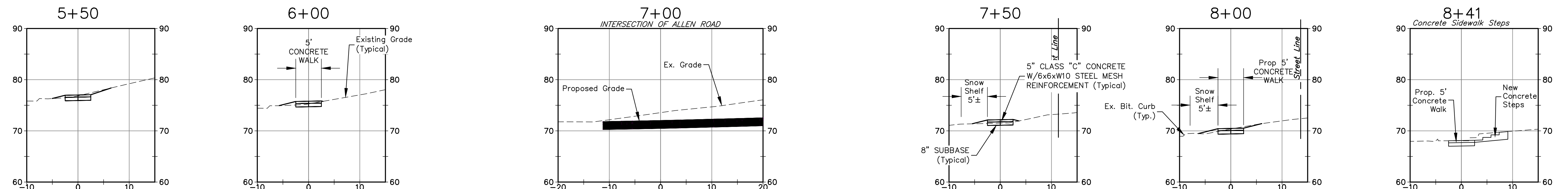
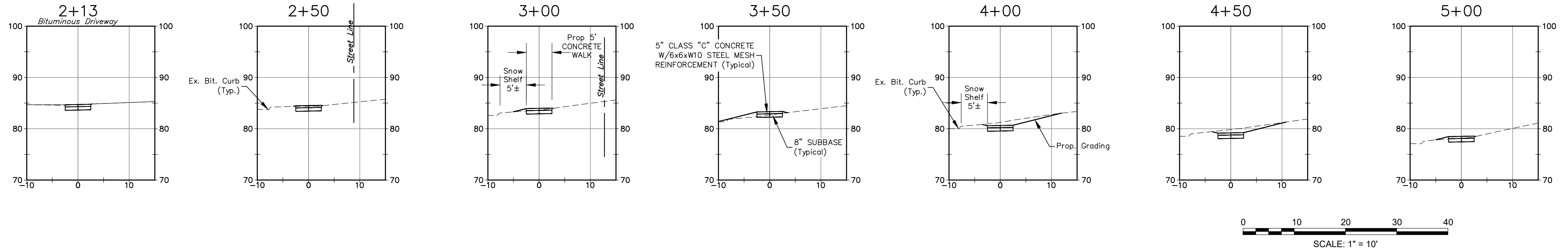
Job #: 22-334.1



PLAN VIEW  
SCALE: 1"=50'



SIDEWALK CROSS SECTIONS  
SCALE: 1"=10' Horiz.  
1"=10' Vert.



|                        |                                              |                    |
|------------------------|----------------------------------------------|--------------------|
| Designed By:<br>KLD    | Drawing Scale:<br>AS NOTED                   | By:<br>KLD         |
| Drawn By:<br>KLD       | Revision<br>11/28/22 REVISED SIDEWALK LAYOUT | Checked By:<br>JEE |
| CAD File:<br>XSections |                                              |                    |

Drawing date: AUGUST 7, 2022

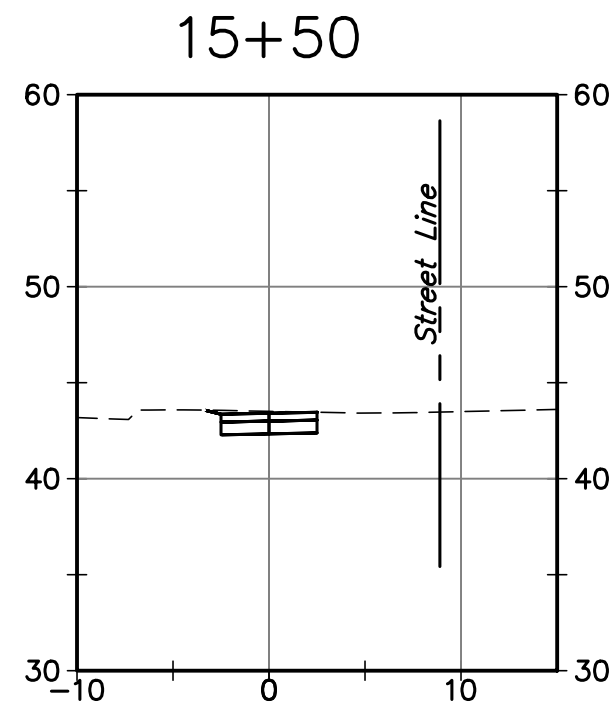
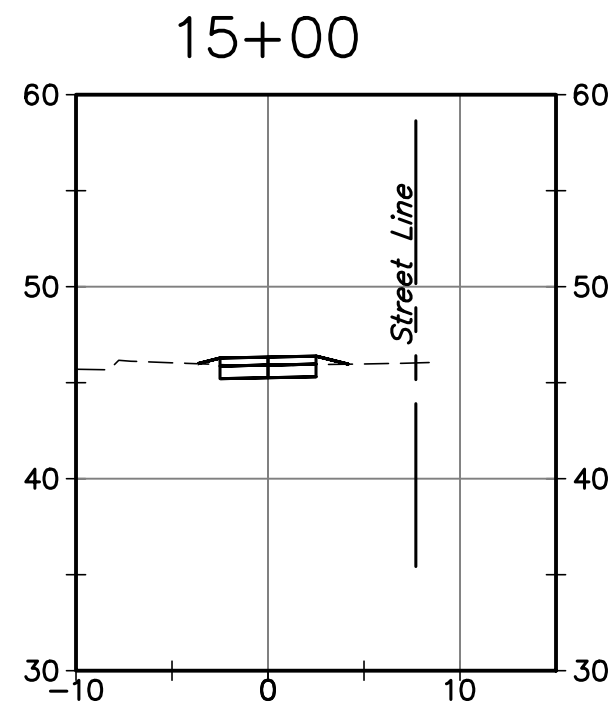
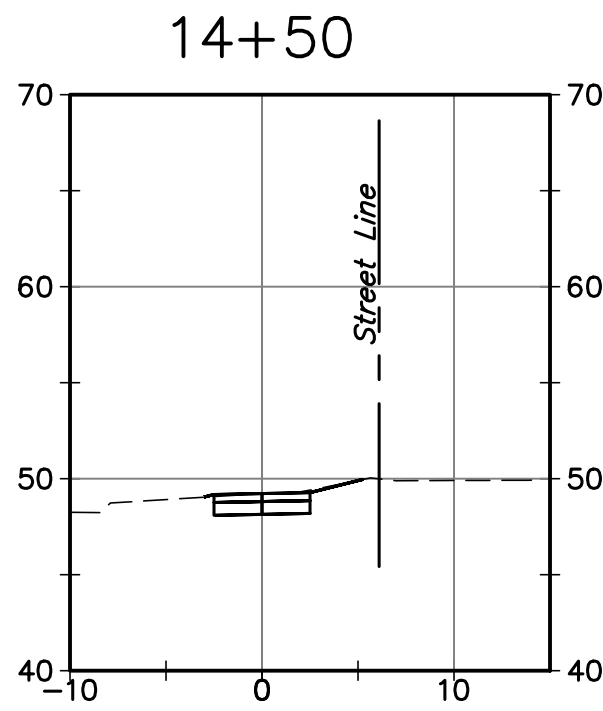
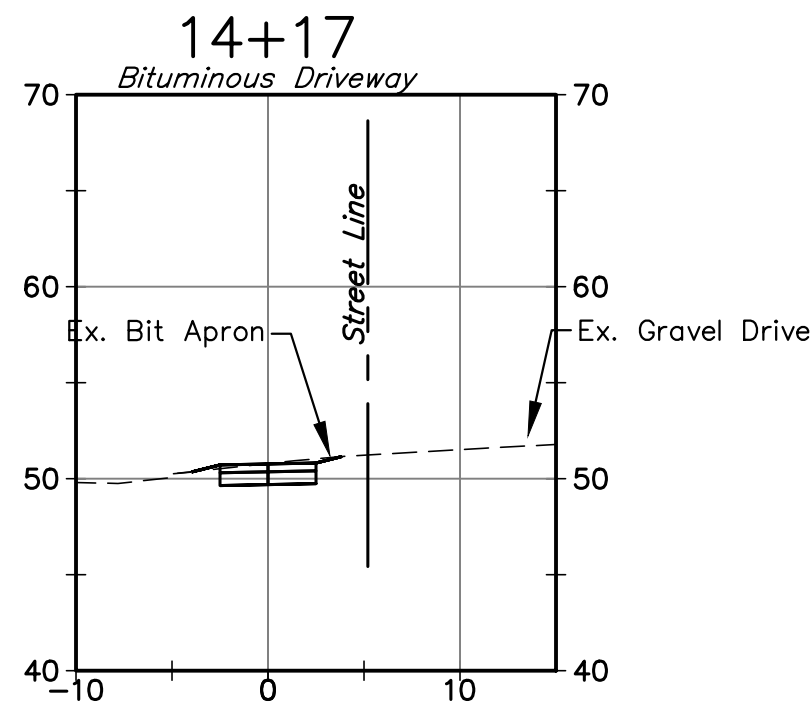
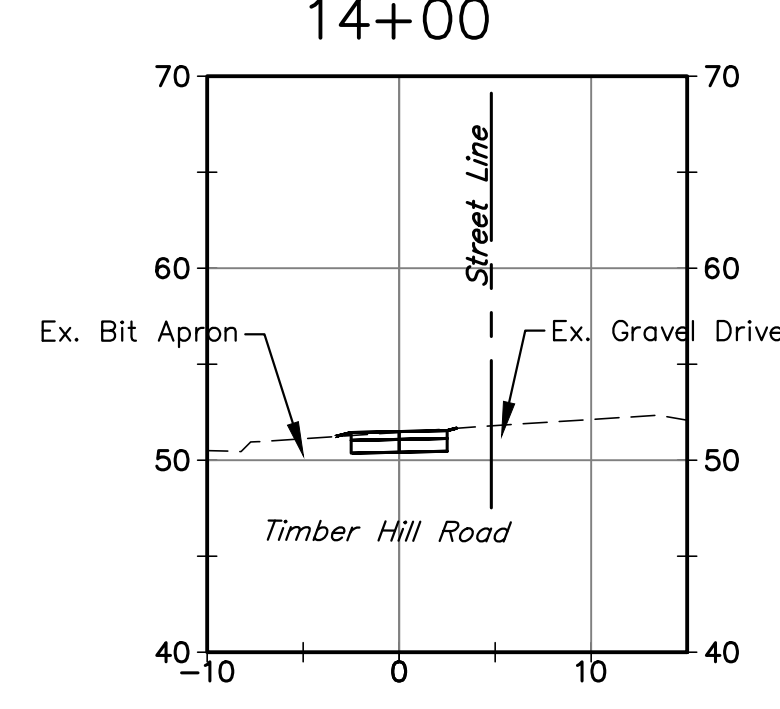
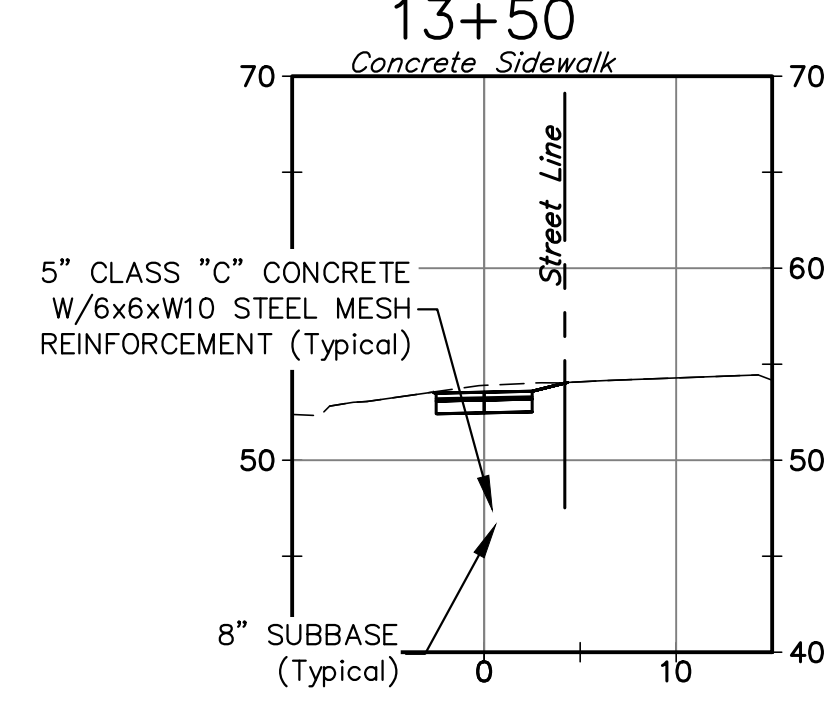
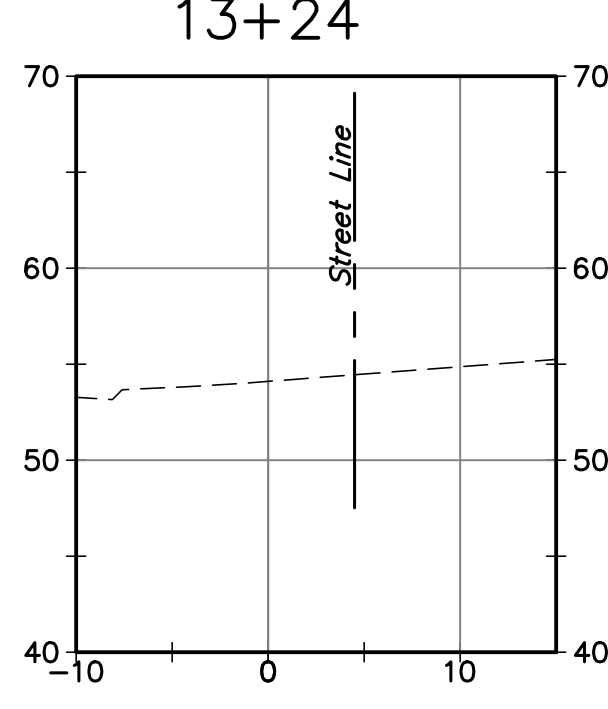
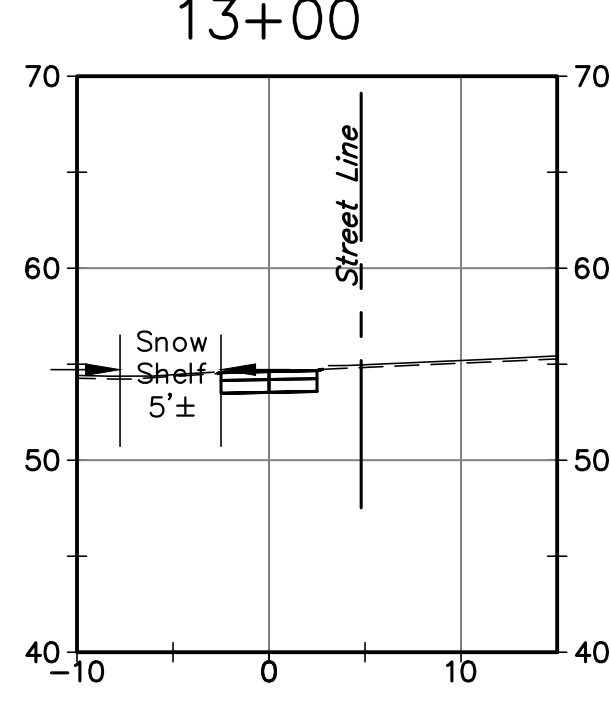
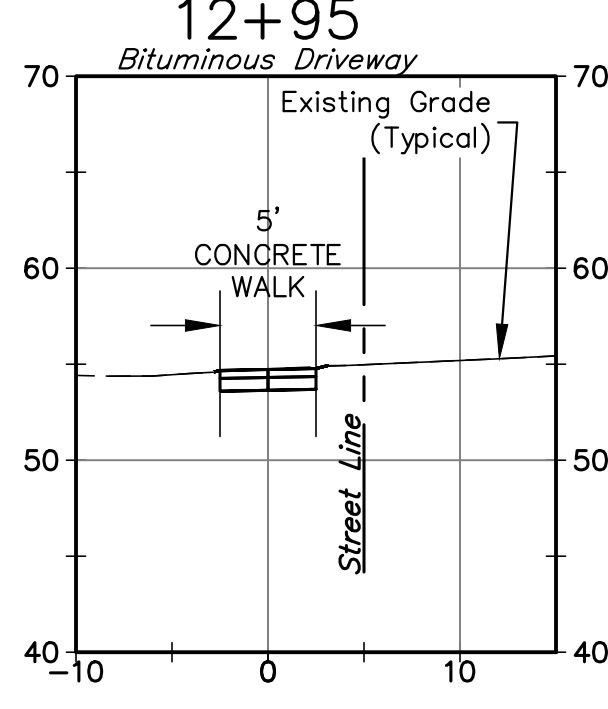
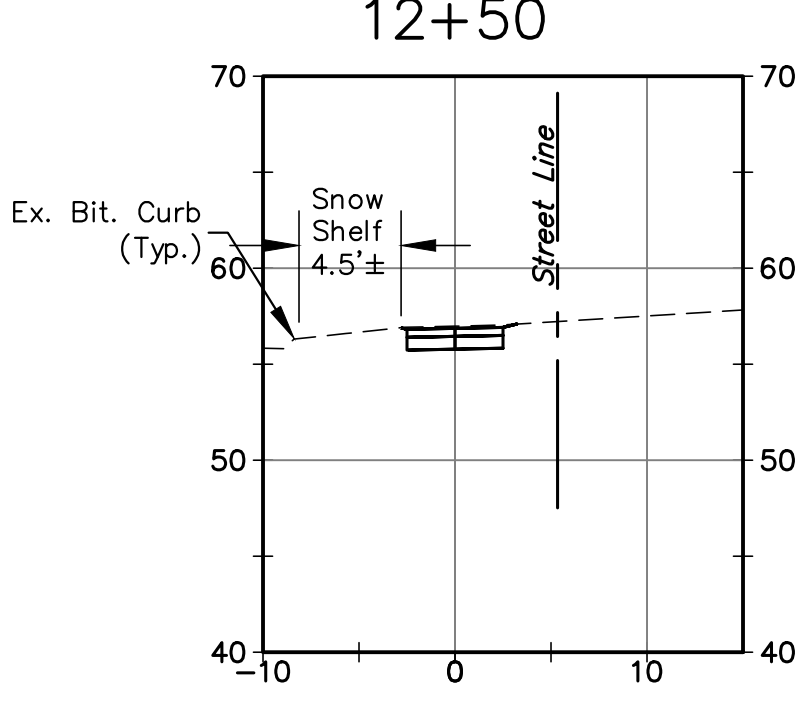
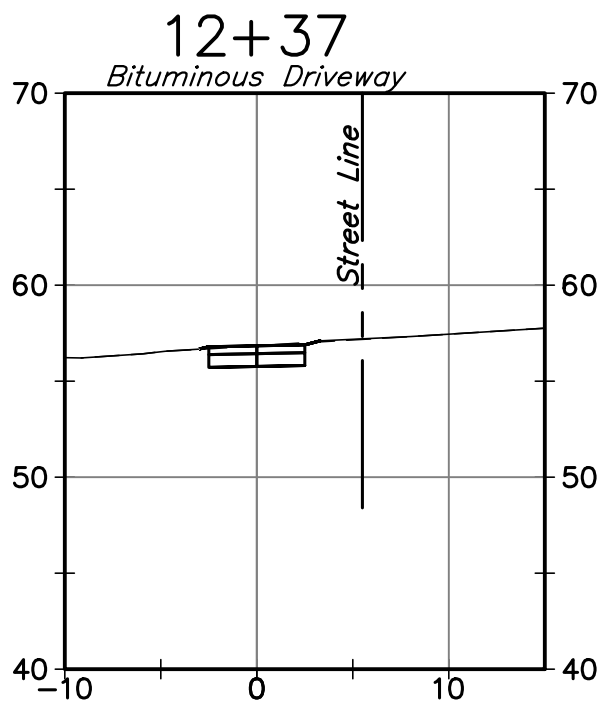
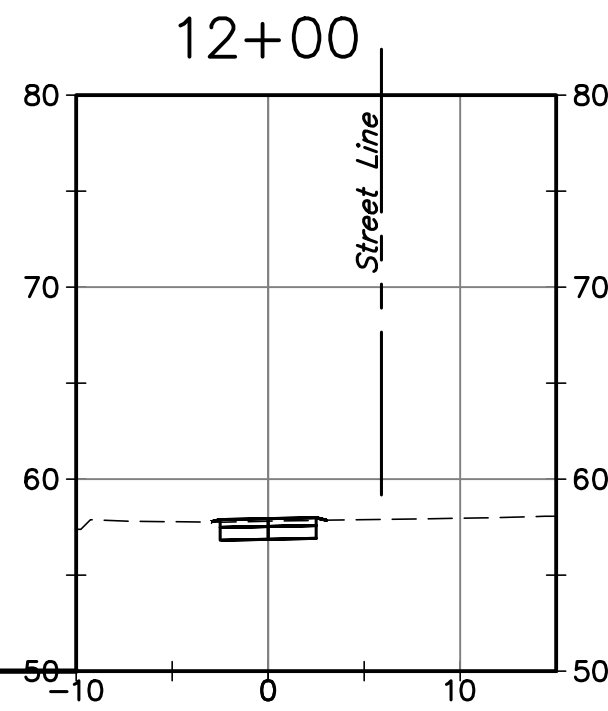
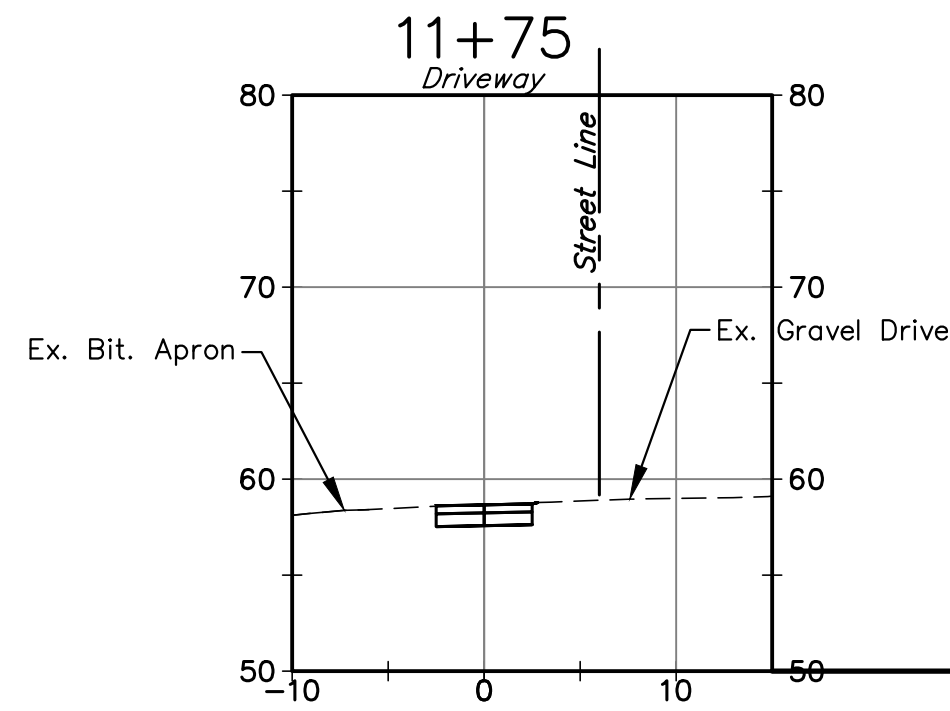
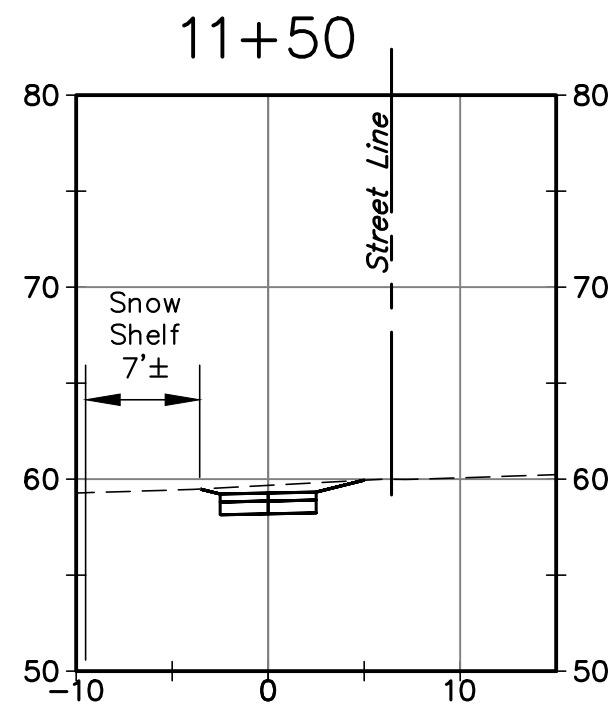
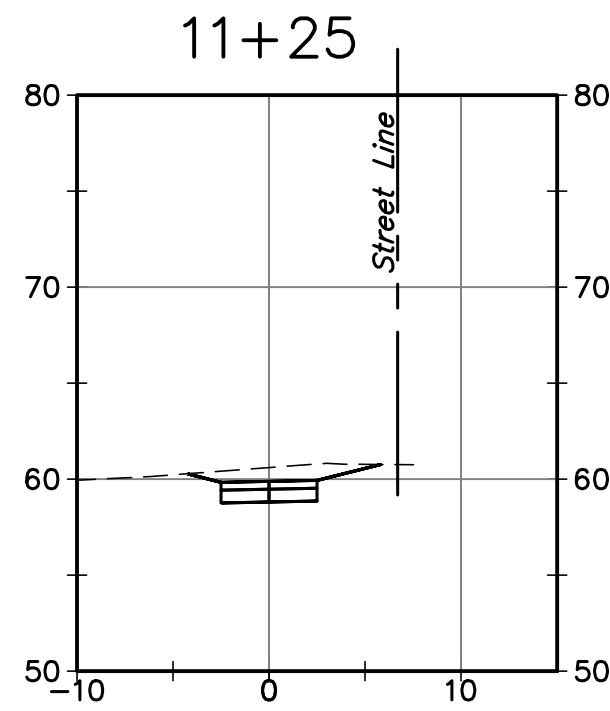
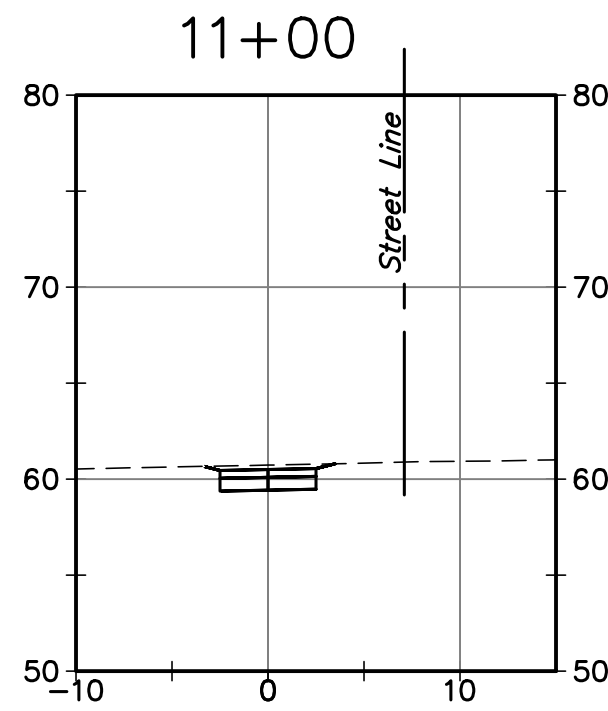
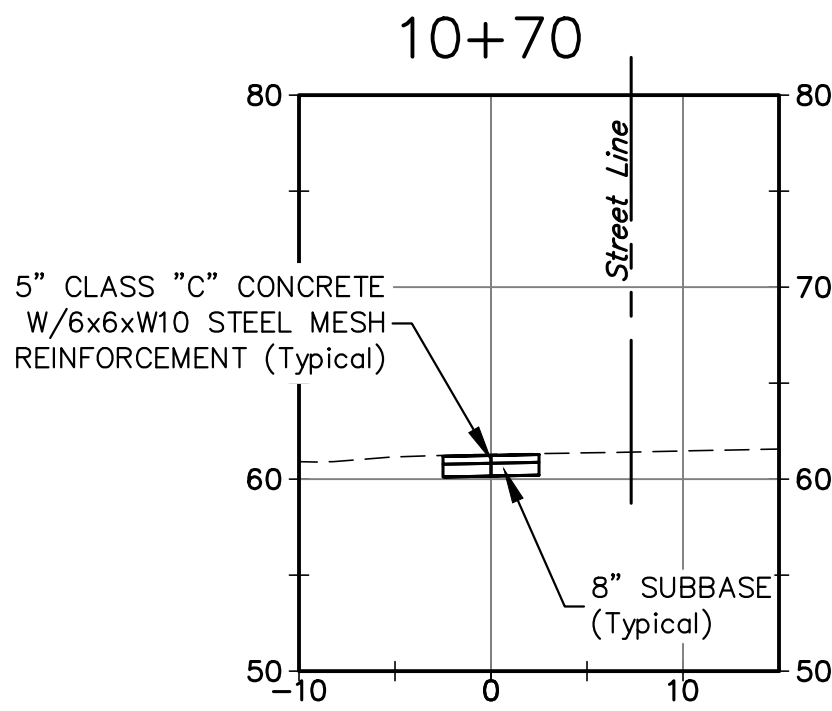
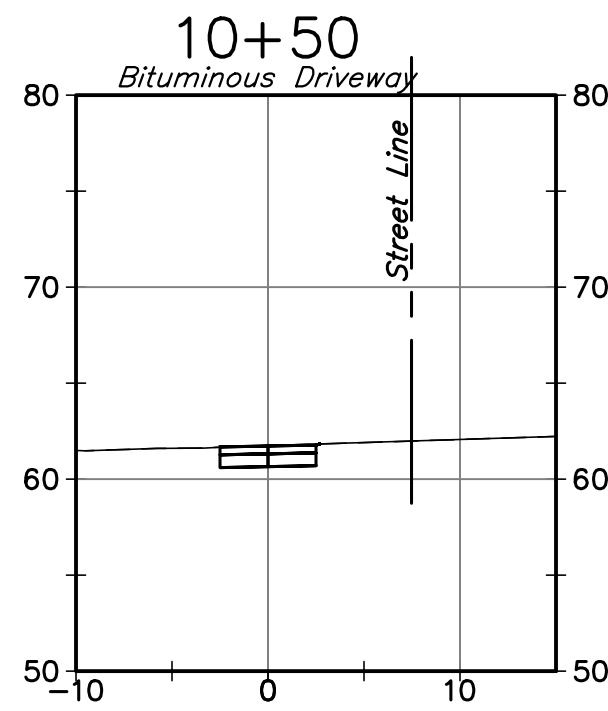
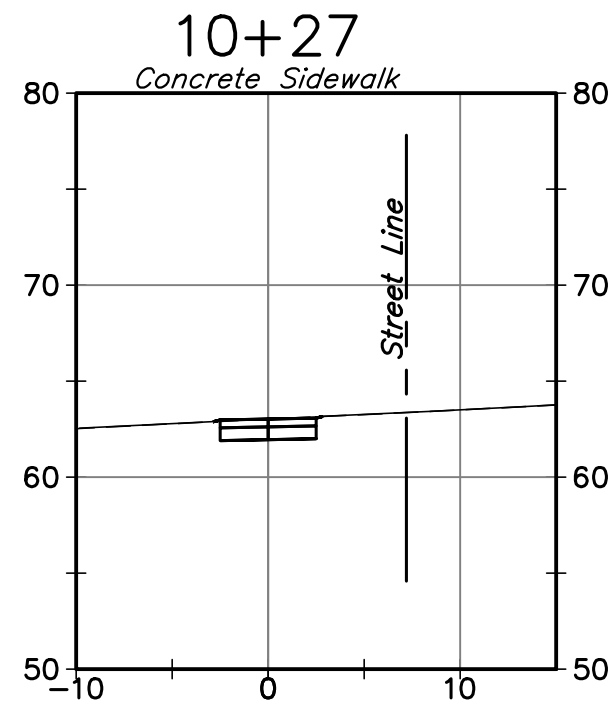
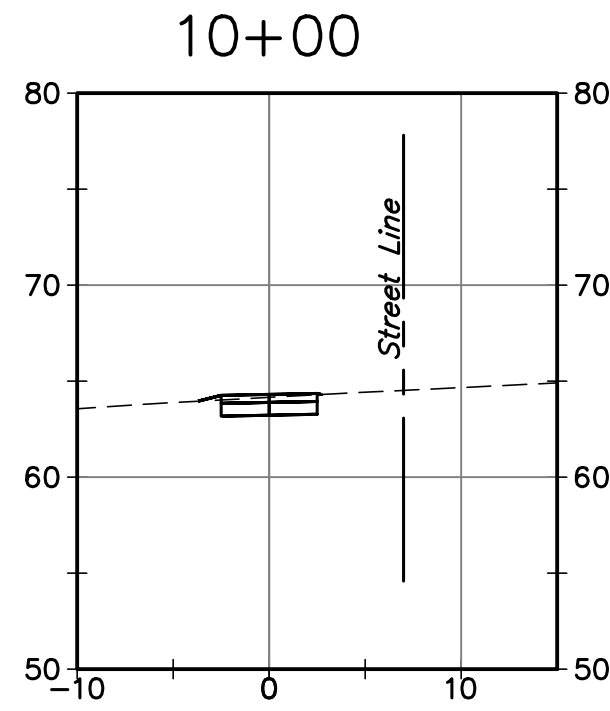
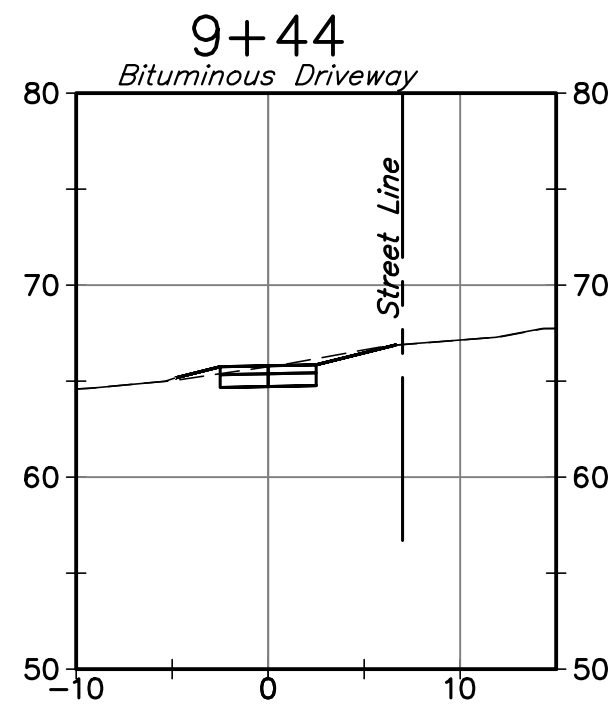
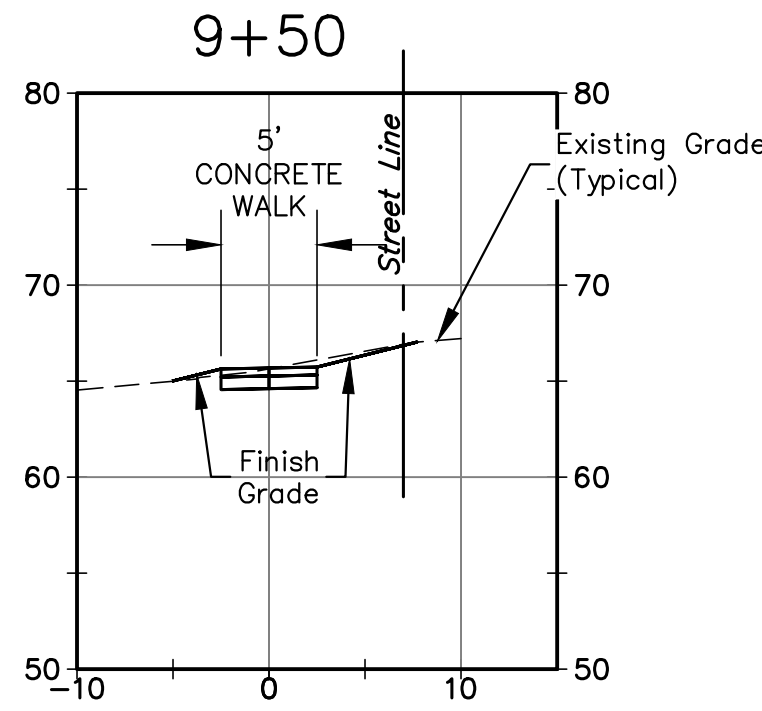
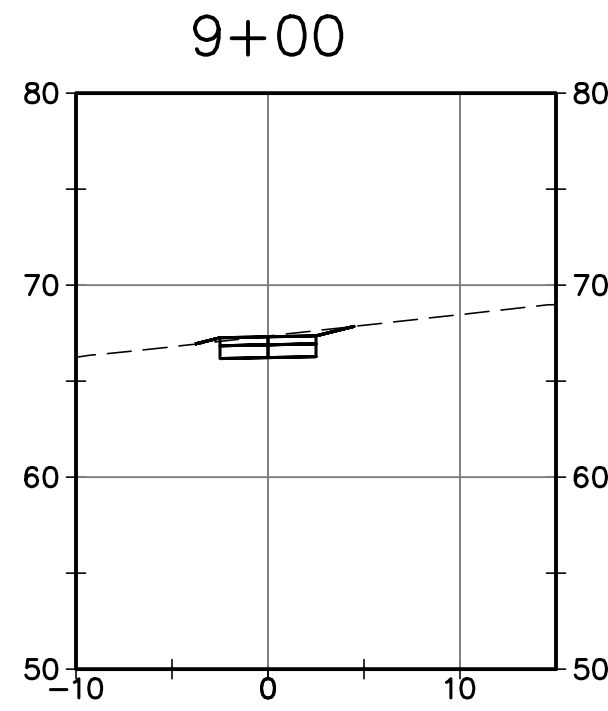
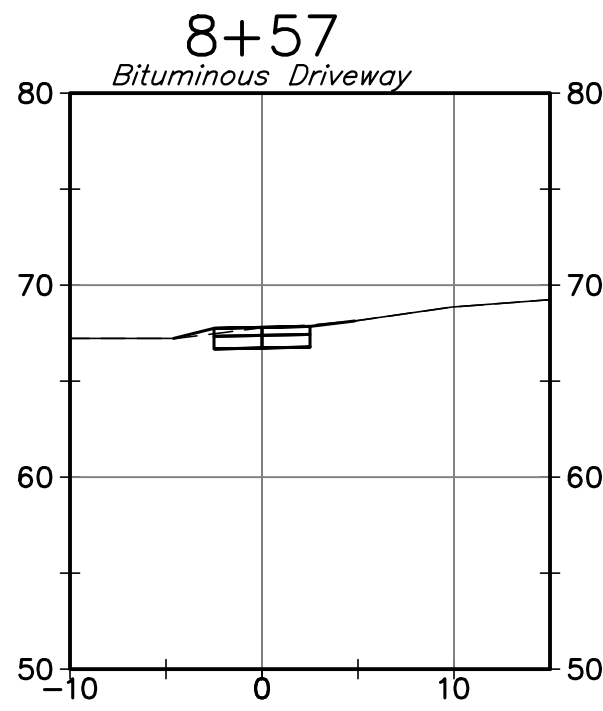
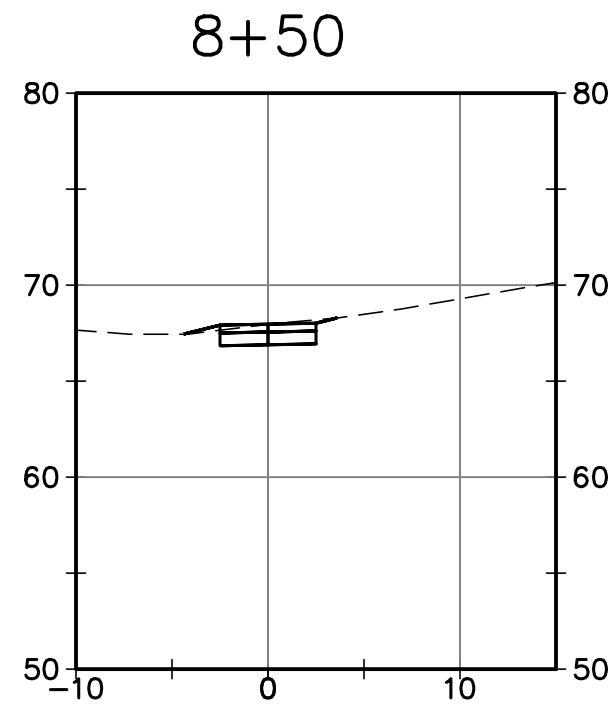
SIDEWALK CROSS SECTIONS  
PREPARED FOR  
**TOWN OF CROMWELL**  
WEST STREET RT. 372  
CROMWELL, CONNECTICUT

**Lenard Engineering, Inc.**  
Civil, Environmental and Hydrogeological Consultants  
2210 Main Street  
GLASTONBURY, CT 06033  
(860) 659-3100

19 Midstate Drive  
AUBURN, MA 01501  
(508) 721-7000

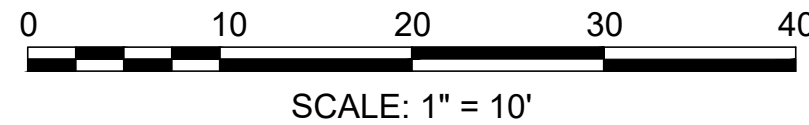
Drawing #:  
**CS-1**

Job #:  
22-334



## SIDEWALK CROSS SECTIONS

SCALE: 1"=10' Horiz.  
1"=10' Vert.



Designed By:  
KLD

Drawn By:  
KLD

Checked By:  
JEE

CAD File:  
XSections

Drawing date:  
AUGUST 7, 2022

Drawing Scale:  
1"=20'

| Rev. | Date     | Revision                | By  |
|------|----------|-------------------------|-----|
| 1    | 11/28/22 | REVISED SIDEWALK LAYOUT | KLD |

SIDEWALK CROSS SECTIONS

PREPARED FOR  
**TOWN OF CROMWELL**  
WEST STREET RT. 372  
CROMWELL, CONNECTICUT

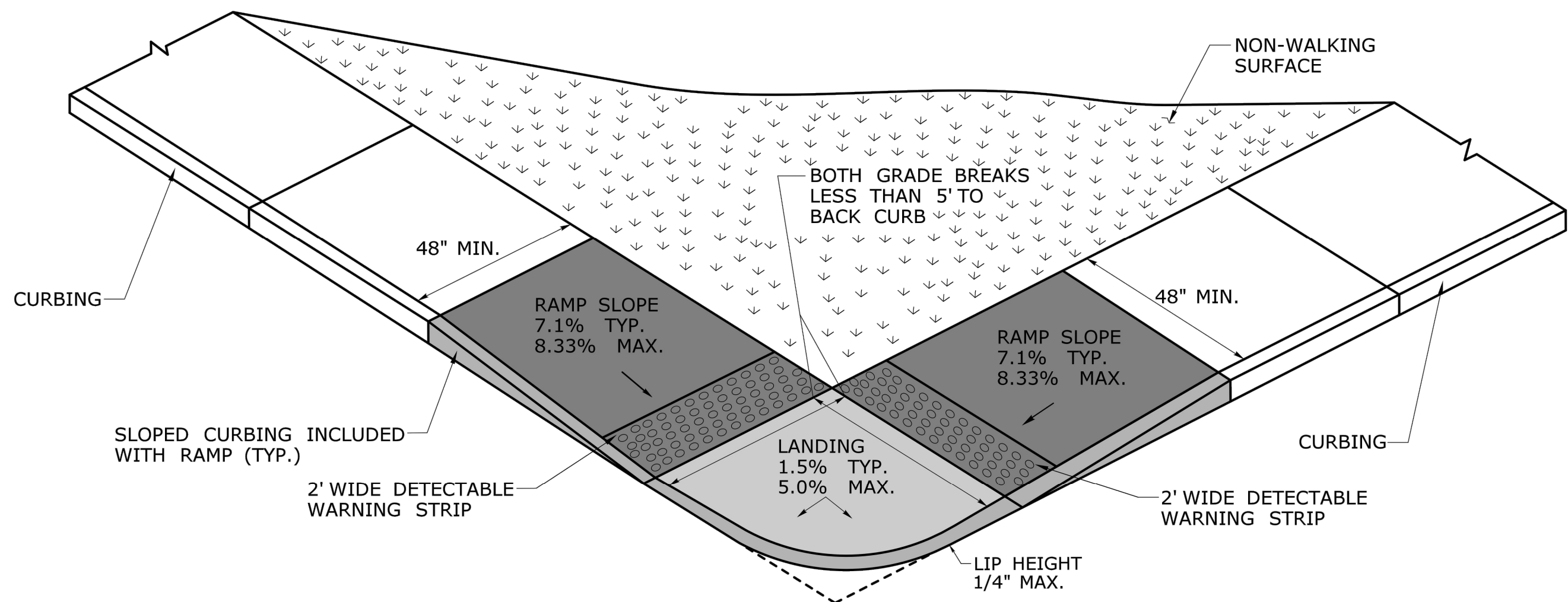
**Lenard Engineering, Inc.**  
Civil, Environmental and Hydrogeological Consultants  
19 Midstate Drive  
AUBURN, MA  
(860) 721-7000

2210 Main Street  
GLASTONBURY, CT  
(860) 659-3100

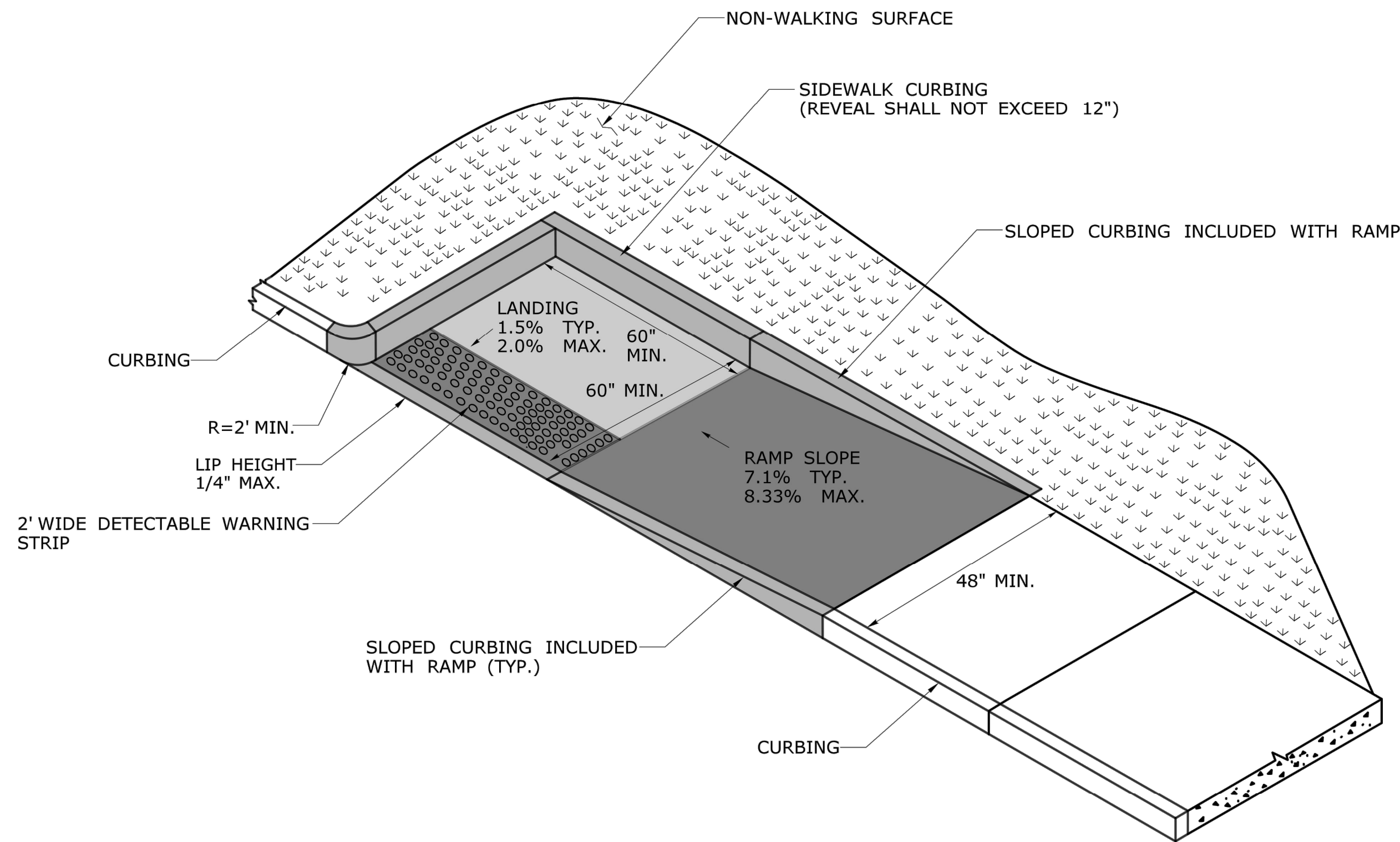
Drawing #:  
**CS-2**

Job #:  
22-334

K:\22-334 Cromwell Walks\Production Drawings\XSections.dwg 12/1/2022 1:29 PM



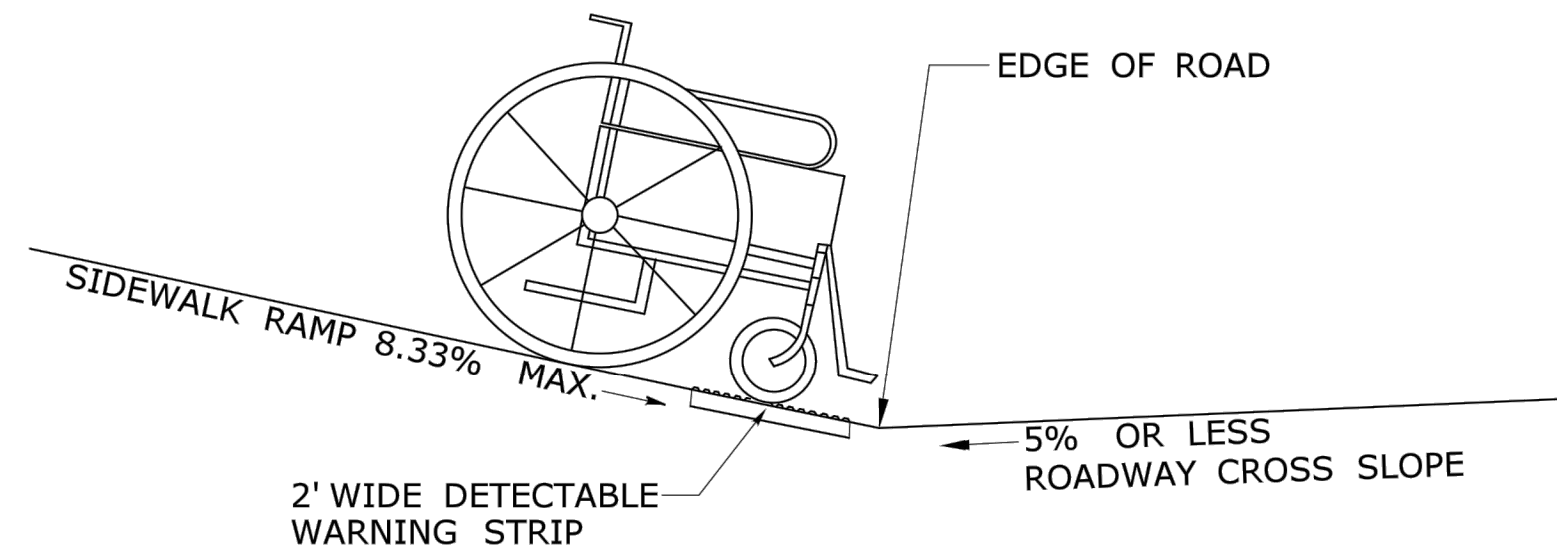
**PERPENDICULAR RAMP  
WITH A GRADE BREAK OF 5' OR LESS  
(TYPE 1)**



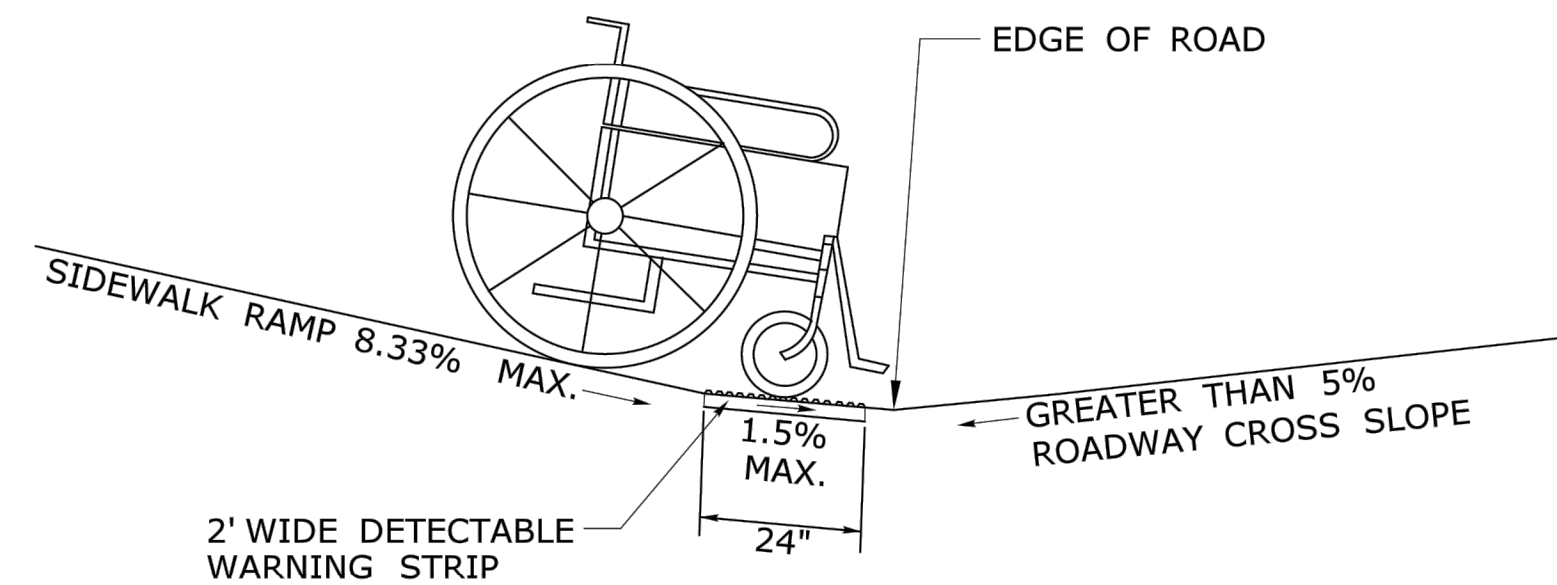
**PARALLEL RAMP  
WITH LANDING AT BOTTOM ON CORNER  
(TYPE 10)**

**GENERAL NOTES:**

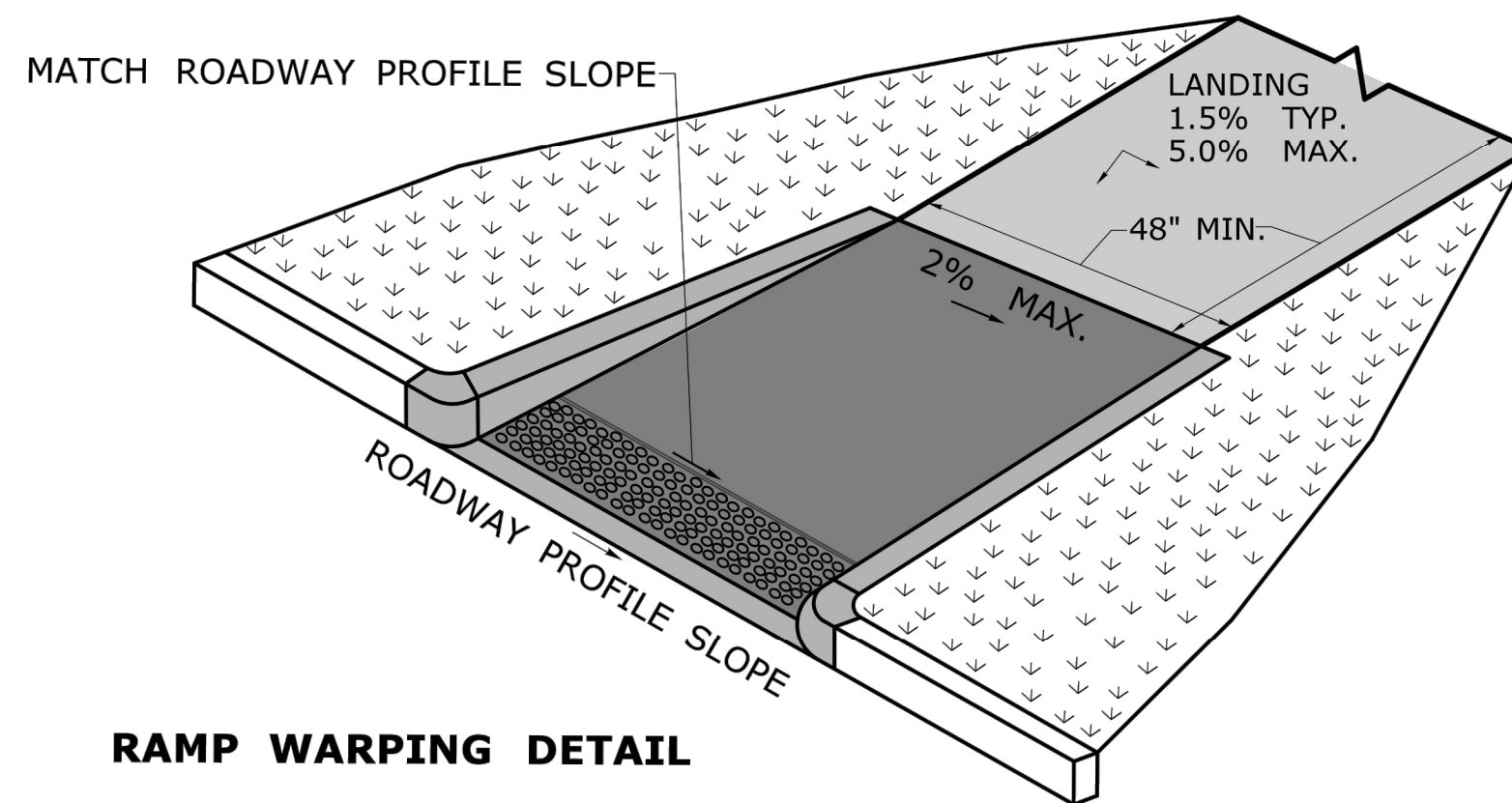
1. SIDEWALK RAMP SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED  $\frac{1}{4}$  INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



**SIDEWALK RAMP GRADE AT  
ROADWAY CROSS SLOPE OF 5% OR LESS**



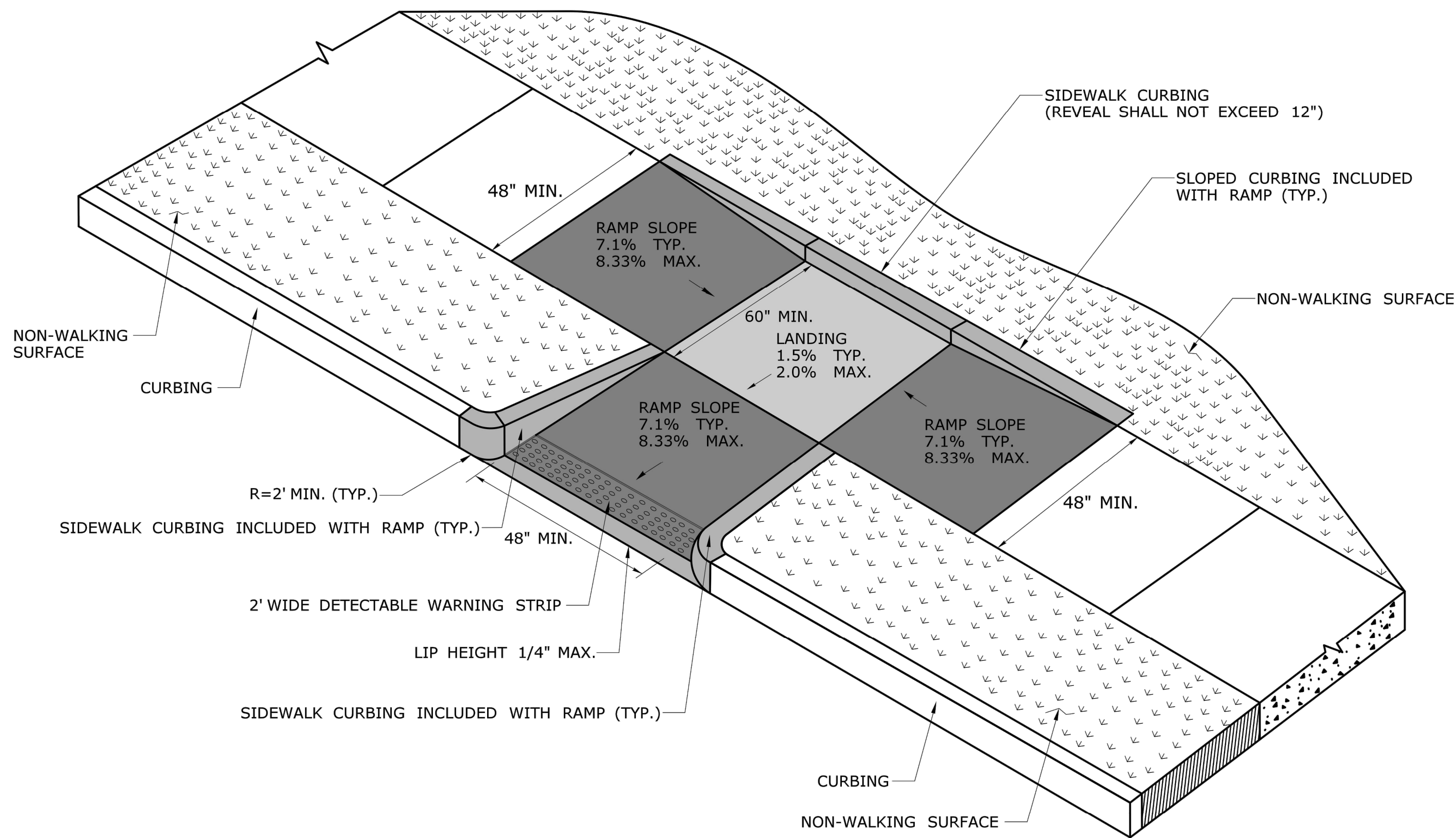
**SIDEWALK RAMP GRADE AT  
ROADWAY CROSS SLOPE OF GREATER THAN 5%**



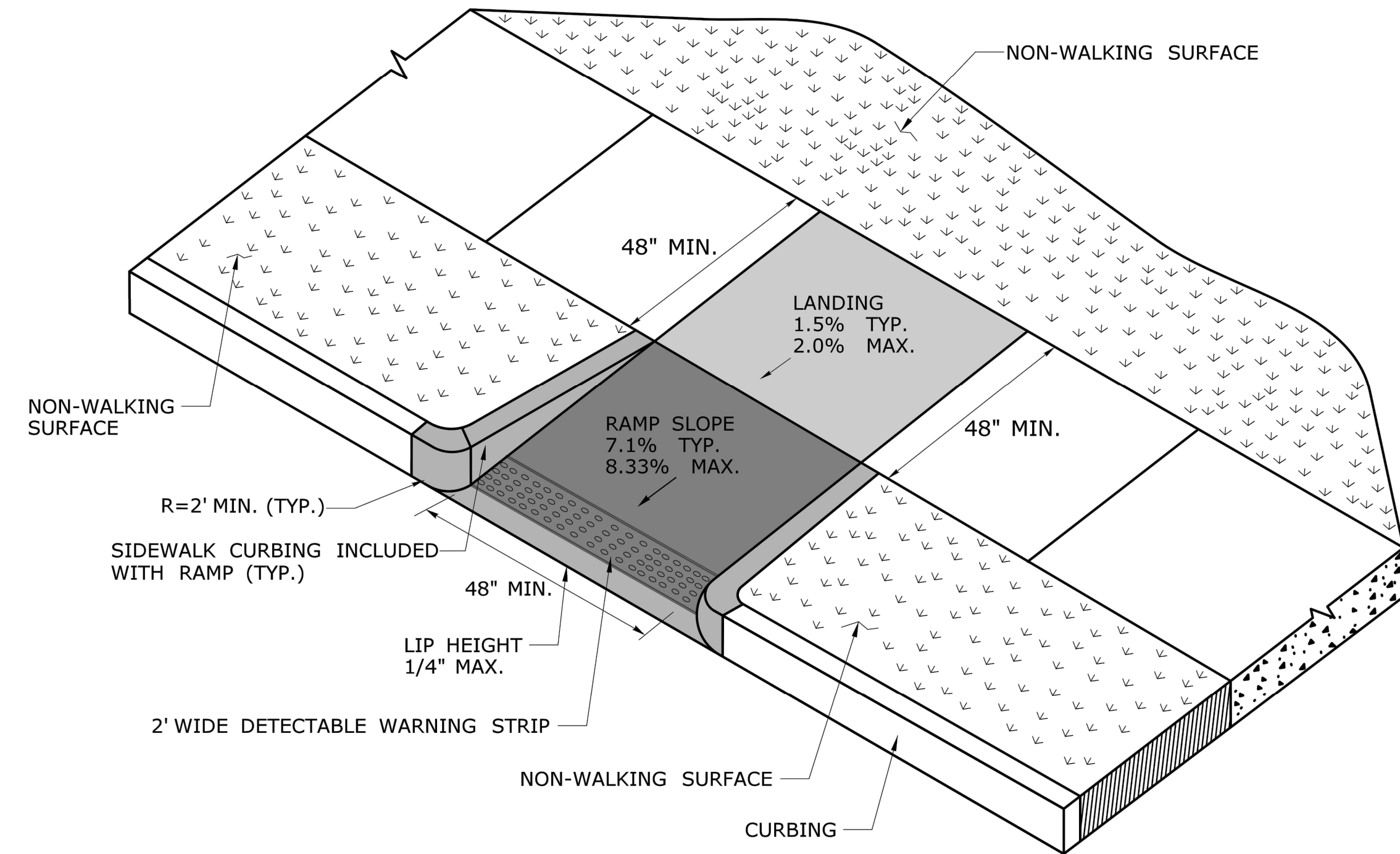
**RAMP WARPING DETAIL**

1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3 % PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
2. COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.

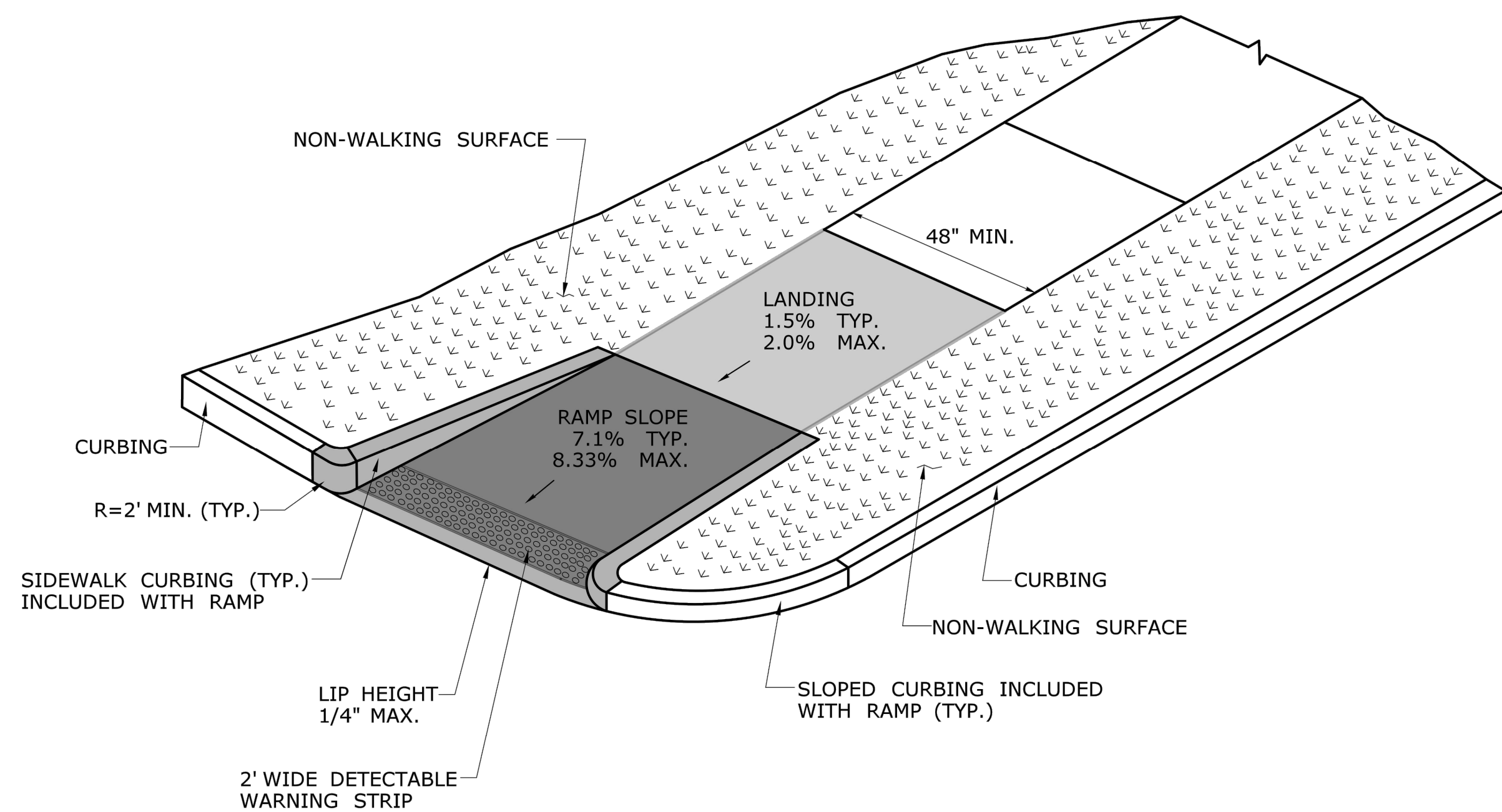
|                                                                                                                                                                                                                  |                      |                    |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|------------------|
| Designed By:<br>KLD                                                                                                                                                                                              | Drawn By:<br>KLD/JED | Checked By:<br>JEE | CAD File:<br>D-1 |
| Drawing Scale:<br>AS NOTED                                                                                                                                                                                       |                      |                    |                  |
| Drawing date:<br>MAY 5, 2022                                                                                                                                                                                     |                      |                    |                  |
| Rev.                                                                                                                                                                                                             | Date                 | By                 | Revision         |
| 1                                                                                                                                                                                                                | 5/19/22              | JED                | ADDED SHEET      |
| SIDEWALK DETAILS                                                                                                                                                                                                 |                      |                    |                  |
| PREPARED FOR<br>TOWN OF CROMWELL<br>WEST STREET<br>CROMWELL, CONNECTICUT                                                                                                                                         |                      |                    |                  |
| Lenard Engineering, Inc.<br>Civil, Environmental and Hydrogeological Consultants<br>2210 Main Street<br>GLASTONBURY, CT<br>(860) 659-3100<br>19 Midstate Drive<br>AUBURN, MA<br>(508) 721-7000<br>(508) 379-6666 |                      |                    |                  |
| Drawing #:<br>D-1                                                                                                                                                                                                |                      |                    |                  |
| Job #:<br>22-334                                                                                                                                                                                                 |                      |                    |                  |



**PERPENDICULAR RAMP WITH SIDEWALK CURB  
AND NON-WALKING SURFACE  
(TYPE 12)**

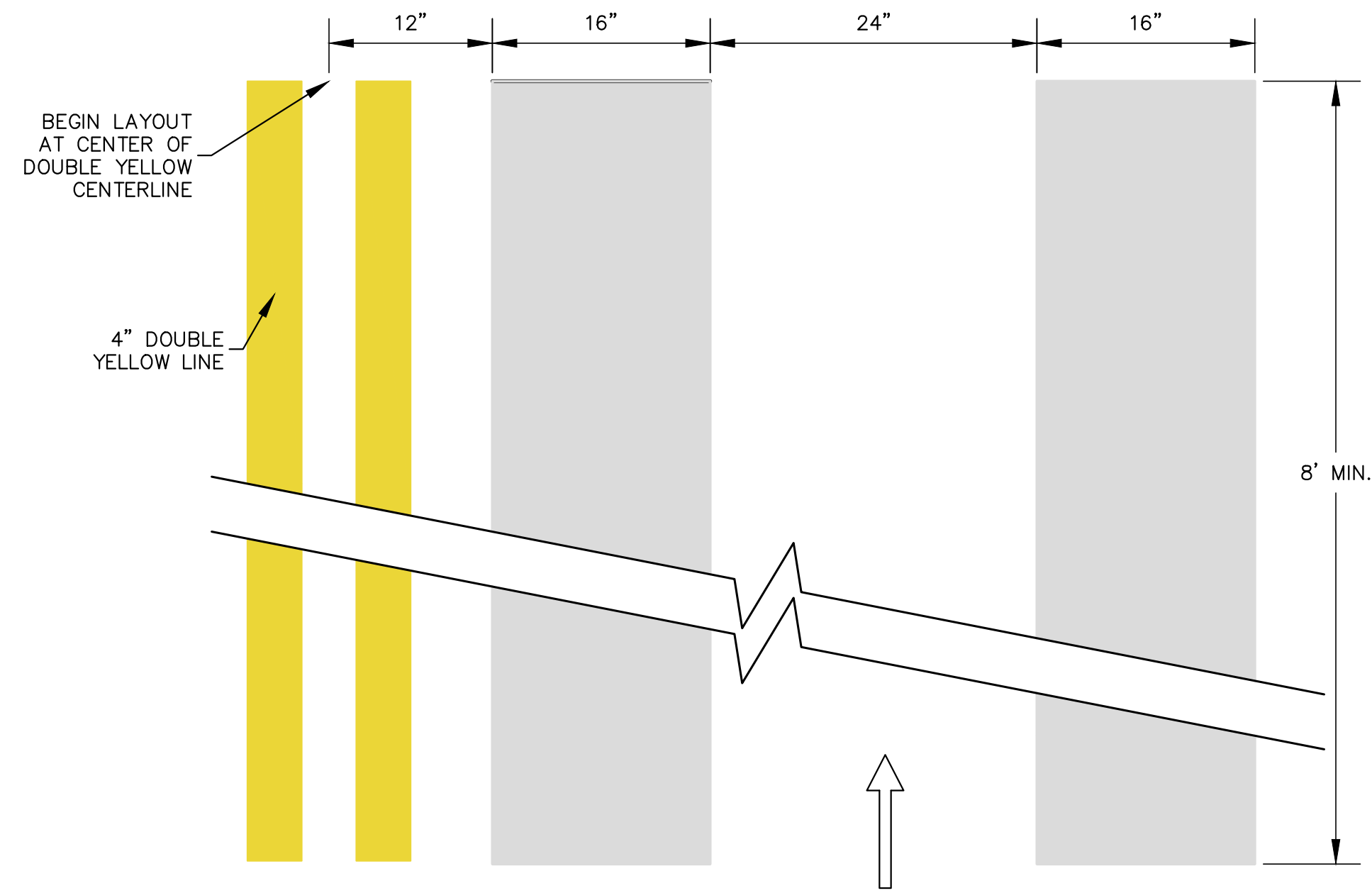


**PERPENDICULAR RAMP  
WITH NON-WALKING SURFACE  
(TYPE 13)**



**SINGLE DIRECTION - RETURN CURB  
WITH NON-WALKING SURFACE  
(TYPE 16)**

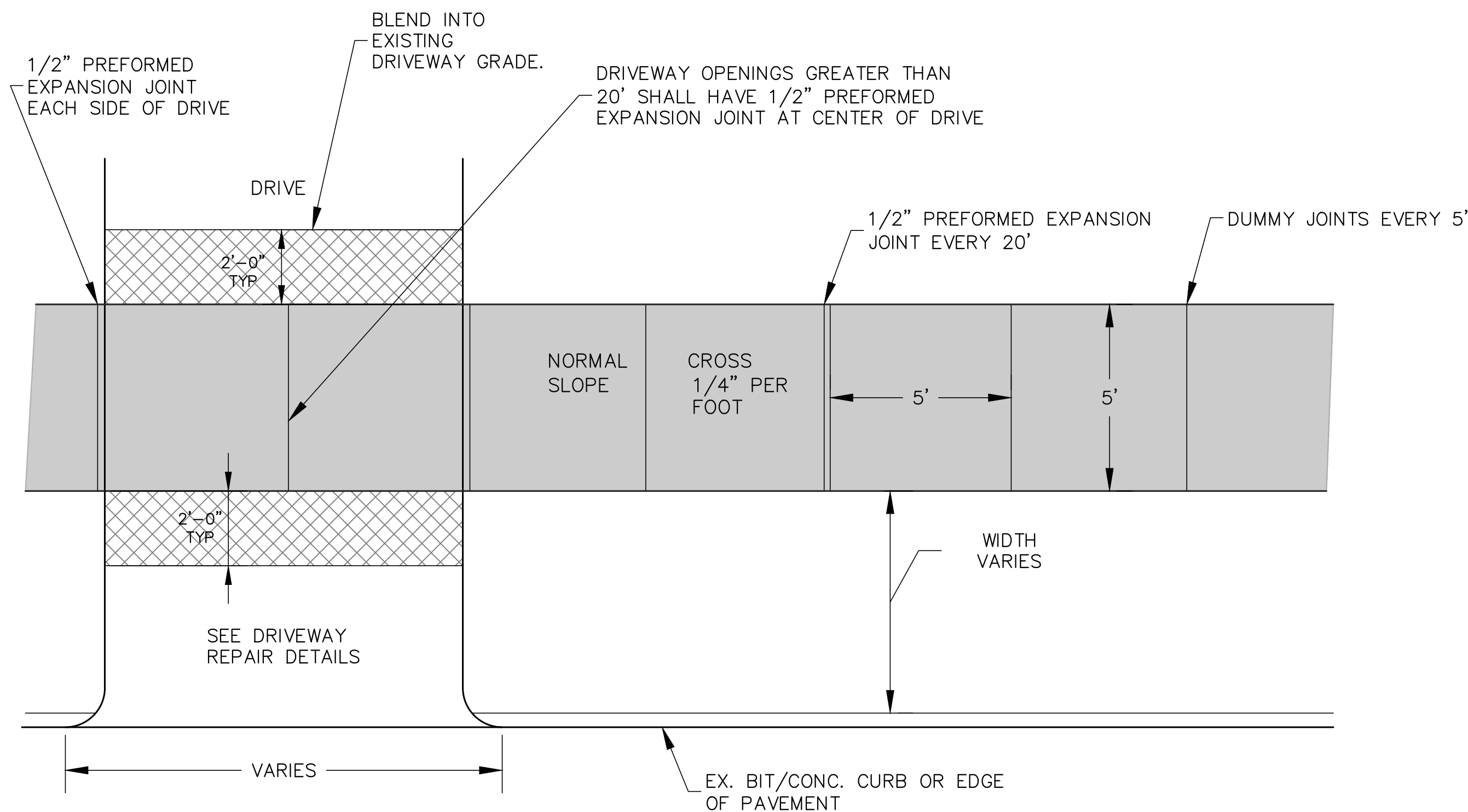
|                                                                                                                                                                                                                        |                            |             |                    |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------|--------------------|------------------|
| Designed By:<br>KLD                                                                                                                                                                                                    | Drawing Scale:<br>AS NOTED | By:<br>JED  | Checked By:<br>JEE | CAD File:<br>D-1 |
| Drawing date: MAY 5, 2022                                                                                                                                                                                              |                            |             |                    |                  |
| Rev. 1                                                                                                                                                                                                                 | Date 5/19/22               | Added Sheet | Revision           |                  |
| <b>SIDEWALK DETAILS</b><br>PREPARED FOR<br><b>TOWN OF CROMWELL</b><br>WEST STREET<br>CROMWELL, CONNECTICUT                                                                                                             |                            |             |                    |                  |
| <b>Lenard Engineering, Inc.</b><br>Civil, Environmental and Hydrogeological Consultants<br>2210 Main Street<br>GASTONBURY, CT<br>(860) 659-3100<br>19 Midstate Drive<br>AUBURN, MA<br>(508) 721-7000<br>(508) 379-6666 |                            |             |                    |                  |
| Drawing #:<br><b>D-2</b>                                                                                                                                                                                               |                            |             |                    |                  |
| Job #:<br><b>22-334</b>                                                                                                                                                                                                |                            |             |                    |                  |



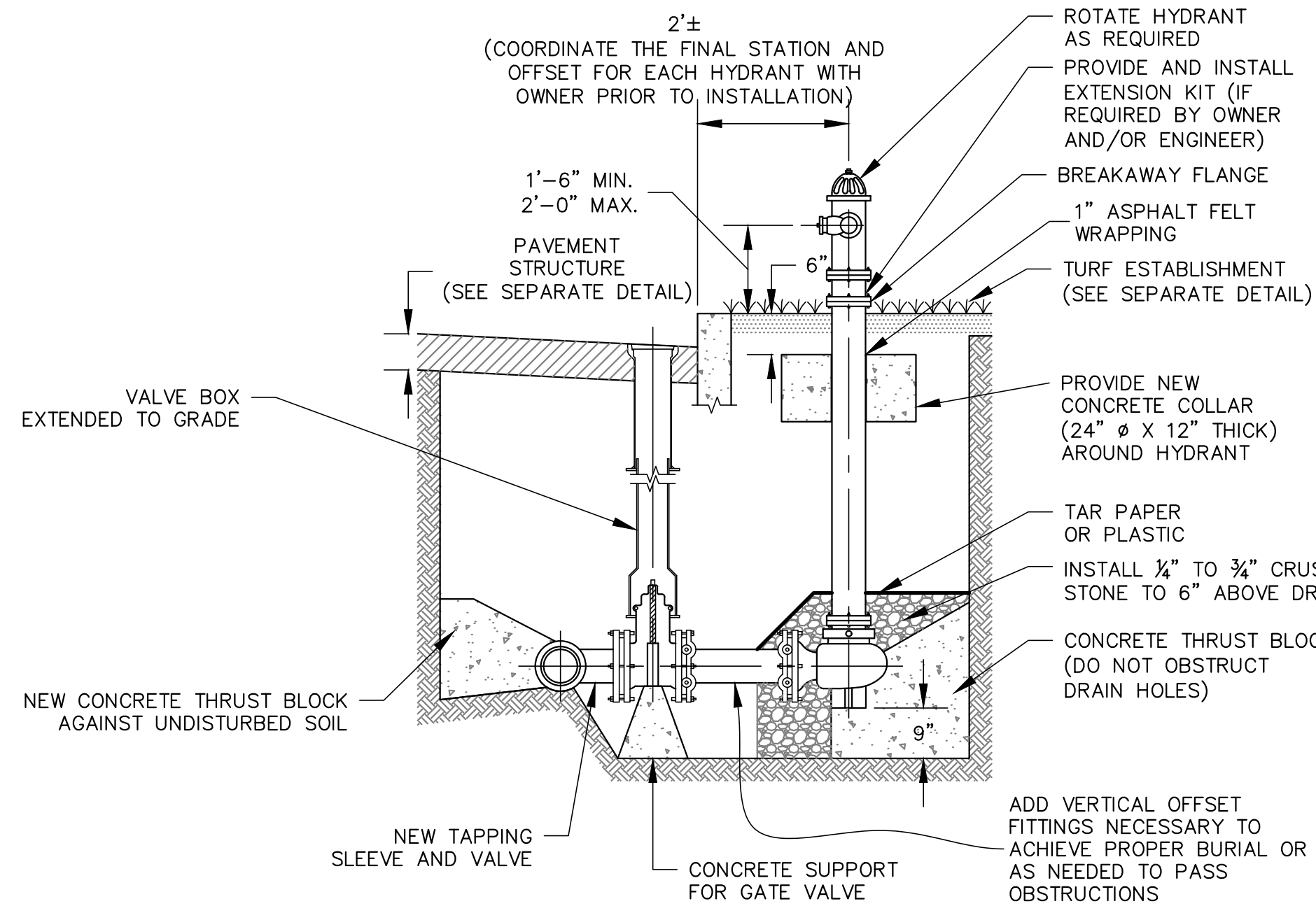
NOTES:

1. CROSSWALK MARKINGS SHALL BE WHITE.
2. BARS SHOULD BE NO CLOSER THAN 1' FROM EDGE OF ROAD.
3. ONLY FULL LENGTH BARS SHALL BE INSTALLED.
4. 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.

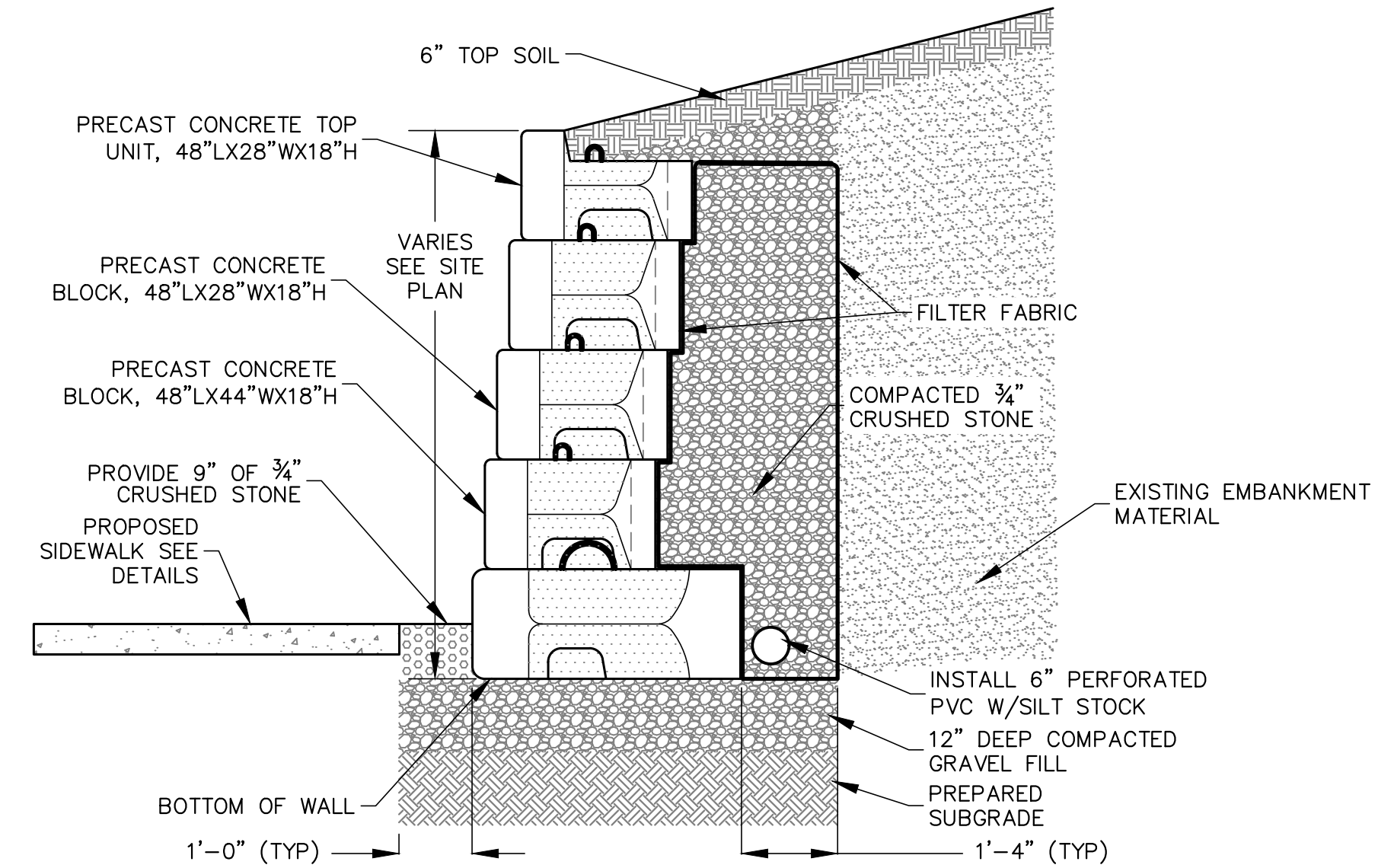
**CROSSWALK DETAIL  
(WHITE)  
N.T.S.**



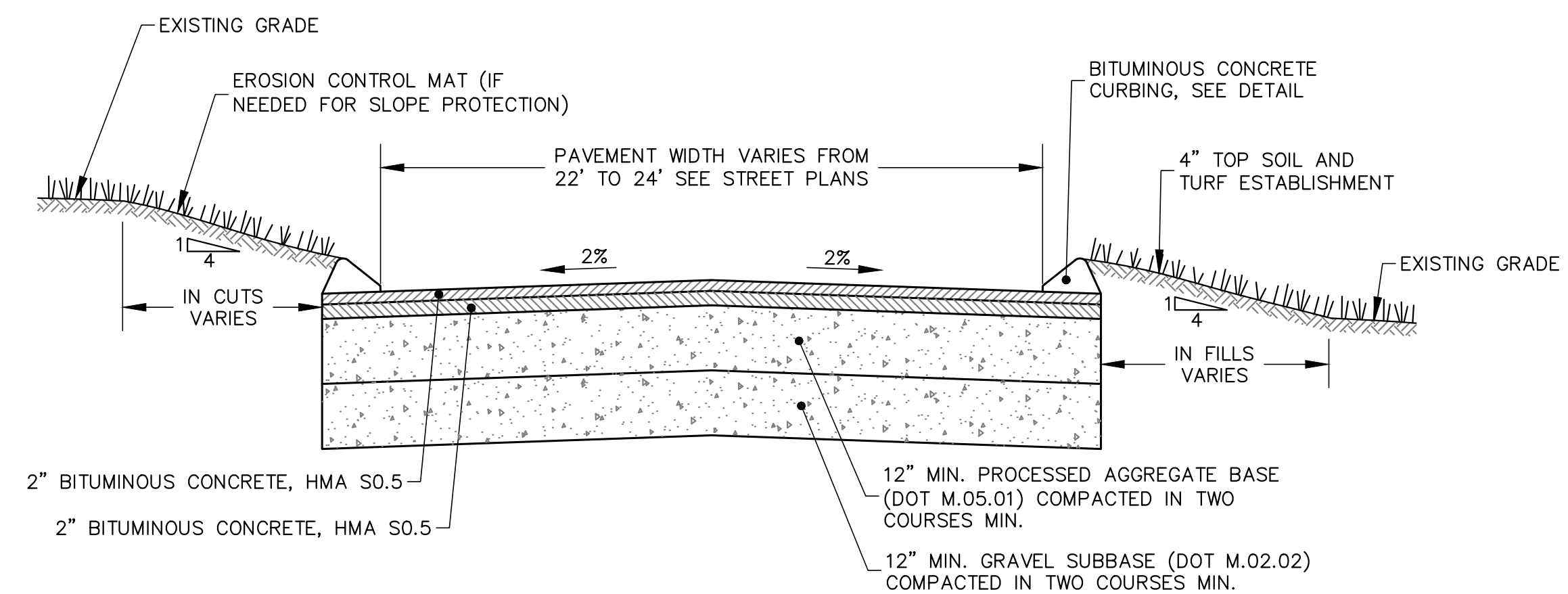
**TYPICAL SIDEWALK PLAN  
N.T.S.**



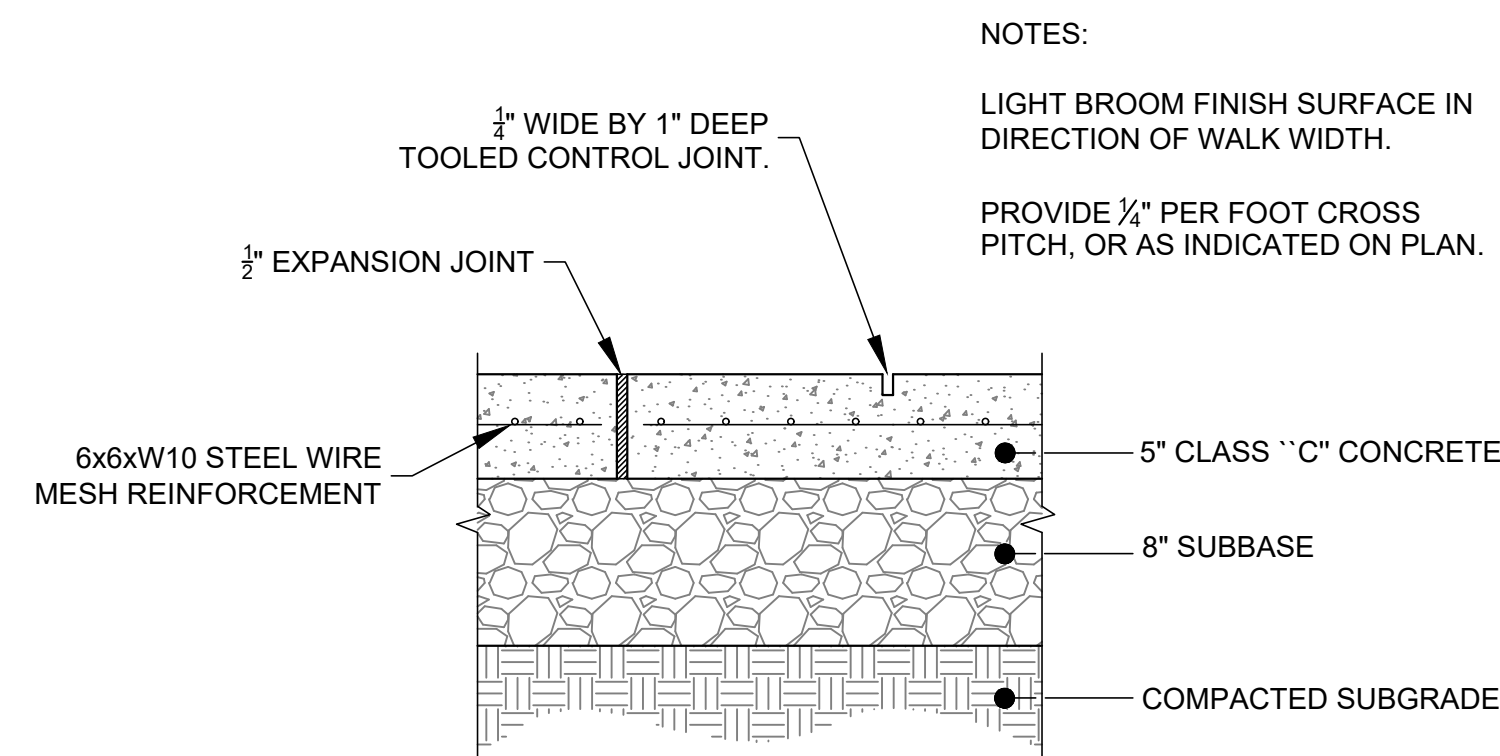
**HYDRANT ASSEMBLY  
NOT TO SCALE**



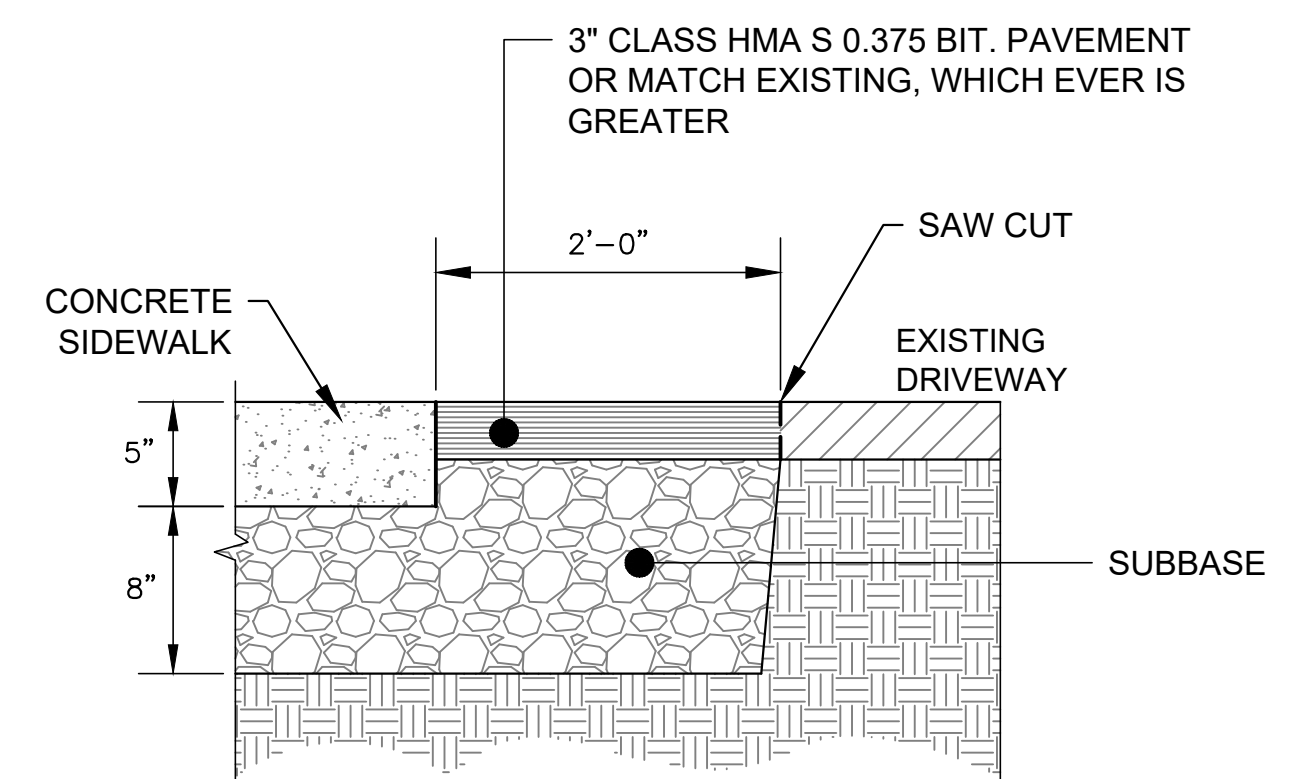
**PRECAST CONCRETE  
RETAINING WALL SECTION  
SCALE: 1/2"=1'-0"**



**TYPICAL ROAD CROSS SECTION  
NOT TO SCALE**

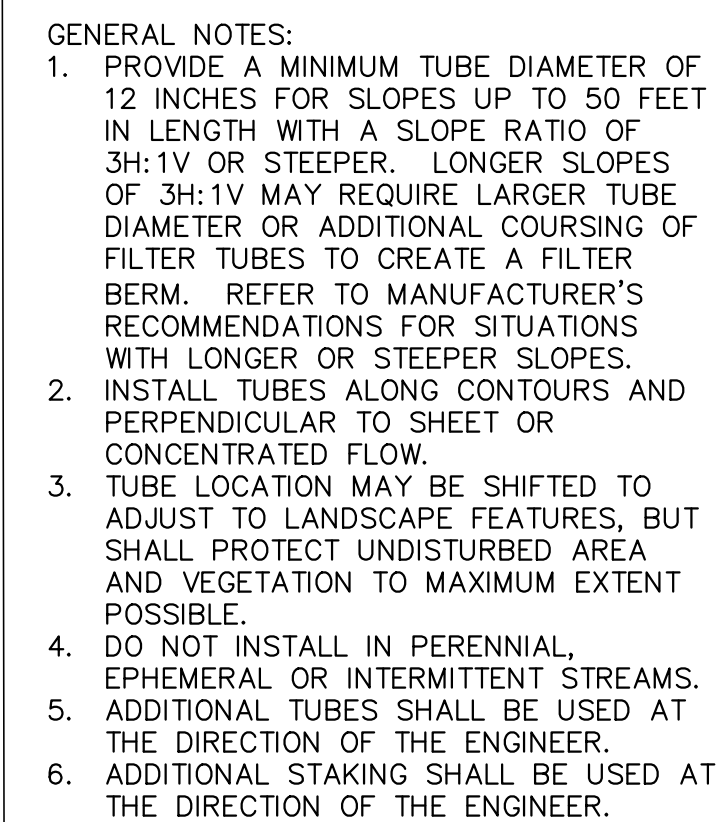


**CONCRETE SIDEWALK DETAIL  
NOT TO SCALE**



**DRIVEWAY REPAIR DETAIL  
NOT TO SCALE**

|                                                                                                                                                                                                                     |                            |            |           |        |              |                      |                    |                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------|-----------|--------|--------------|----------------------|--------------------|------------------|
| Designed By:<br>KLD                                                                                                                                                                                                 | Drawing Scale:<br>AS NOTED | By:<br>JED | Revision: | Rev. 1 | Date 5/19/22 | Revised Sheet Number | Checked By:<br>JEE | CAD File:<br>D-1 |
| <p><b>SIDEWALK DETAILS</b></p> <p>PREPARED FOR<br/><b>TOWN OF CROMWELL</b><br/>WEST STREET<br/>CROMWELL, CONNECTICUT</p>                                                                                            |                            |            |           |        |              |                      |                    |                  |
| <p><b>Lenard Engineering, Inc.</b><br/>Civil, Environmental and Hydrogeological Consultants<br/>19 Midstate Drive<br/>AUBURN, MA<br/>(508) 721-7000<br/>2210 Main Street<br/>GLASTONBURY, CT<br/>(860) 659-3100</p> |                            |            |           |        |              |                      |                    |                  |
| <p>Drawing #:<br/><b>D-3</b></p>                                                                                                                                                                                    |                            |            |           |        |              |                      |                    |                  |
| <p>Job #:<br/>22-334</p>                                                                                                                                                                                            |                            |            |           |        |              |                      |                    |                  |



|                                                                                       |                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><i>Lenard Engineering, Inc.</i></p> <p>Civil, Environmental and Hydrogeological Consultants</p> <p>2210 Main Street,<br/>GLASTONBURY, CT<br/>(860) 659-3100</p> <p>140 Willow Street<br/>WINSTED, CT<br/>(860) 379-6669</p> <p>19 Milcriste Drive<br/>AUBURN, MA<br/>(508) 721-7600</p> |
| <p>Drawing #:</p> <p><i>D-4</i></p> <p>Job #: 22-334</p>                              |                                                                                                                                                                                                                                                                                            |