

**GENERAL NOTES:**

1. BASE ROCK SHALL CONFORM TO WSDOT SPECIFICATION 9-03.9(3) FOR CRUSHED SURFACING BASE COURSE. ASPHALT TREATED BASE (ATB) MAY BE SUBSTITUTED FOR BASE ROCK. THE SUBSTITUTION RATIO SHALL BE 1" ATB=2" BASE ROCK.
2. HOT MIX ASPHALT FOR ARTERIAL ROADWAYS SHALL BE CLASS 3/8" PG 58H-22 3.0 TO 30 ESAL MIX DESIGN.
3. HOT MIX ASPHALT FOR LOCAL ACCESS/NEIGHBORHOOD CIRCULATORS AND LOOP ROADS SHALL BE CLASS 3/8" PG 58H-22 0.3 TO 3.0 ESAL MIX DESIGN.
4. IF A PROJECT HAS BOTH RESIDENTIAL AND ARTERIAL STREETS AND THE QUANTITY OF HMA IS LESS THAN 100 TONS FOR ONE OF THE STREET TYPES, THE MIX DESIGN OF THE STREET WITH MORE HMA MAY BE USED FOR ALL THE HMA.
5. SUGGESTED PAVEMENT DESIGNS ARE FOR PROLONGED DRY WEATHER CONSTRUCTION. ADDITIONAL MATERIALS AND/OR GEOTEXTILE FABRICS MAY BE REQUIRED DURING WET WEATHER CONSTRUCTION.
6. PRIOR TO PAVEMENT DESIGN, CONTACT PAVEMENT MANAGEMENT (PAVEMENT@CITYOFVANCOUVER.US) DEPARTMENT FOR DESIGN METHODOLOGY.
7. A PAVEMENT DESIGN REPORT WILL BE REQUIRED FOR ROADWAY PAVING EXCEEDING 2,000 S.F. OR IF A-7 SOIL IS AT SUBGRADE. THE PAVEMENT SECTIONS SHOWN ON T10-03 TO T10-23 ARE FOR ESTIMATING PURPOSES OR MINOR PAVING ACTIVITIES.
8. A PAVEMENT DESIGN REPORT SHALL BE DONE FOR ALL PCC AND PERVIOUS CONCRETE PAVEMENT CONSTRUCTION. THE REPORT SHALL BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER.
9. ALL ARTERIAL, INDUSTRIAL, LOOP AND CUL-DE-SAC STREETS REQUIRE STREET LIGHTING, SEE STANDARD PLAN **T21-01A AND T21-01B CITY STREET LIGHTING REQUIREMENTS SCHEDULE AND NOTES.**

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| REV NO. | DATE | BY  | APPR |
|---------|------|-----|------|
| 1       | 2/21 | OIS | MHA  |
| 2       | 9/21 | RAW | MHA  |
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|         |      |     |      |
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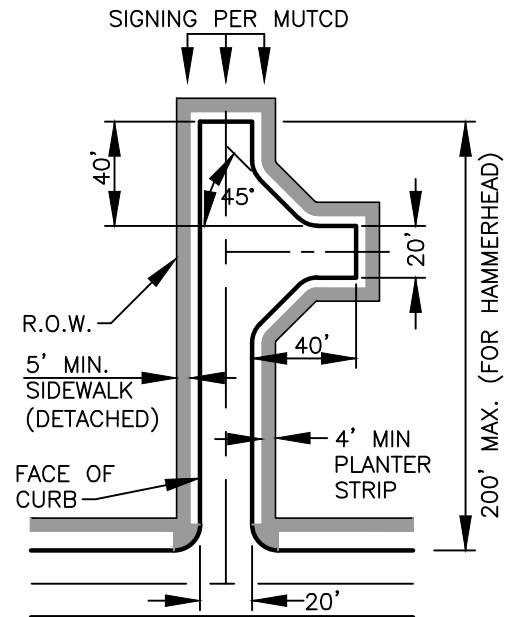
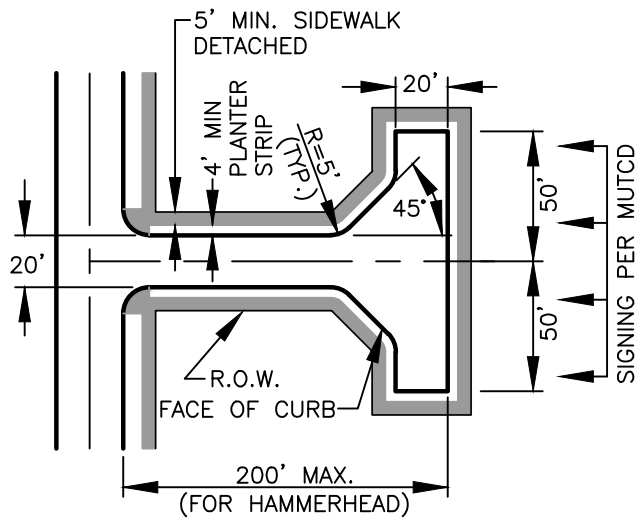
**PUBLIC WORKS – STREETS  
AND TRANSPORTATION**

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



STREET SECTION  
GENERAL NOTES

STANDARD PLAN  
NUMBER  
T10-00



## REDUCED HAMMERHEAD

### NOTES:

1. THE PAVEMENT DESIGN SHALL BE PER VMC 11.80.050.
2. THE LENGTH OF A STREET TERMINATION IS MEASURED ALONG CENTERLINE FROM THE INTERSECTING STREET CURB LINE TO THE END OF STREET OR BACK OF HAMMERHEAD.
3. **NO PARKING SIGNS SHALL BE POSTED IN REDUCED HAMMERHEADS AND THE CURB PAINTED RED.**
4. A STREET OR ALLEY MAY BE TERMINATED ABRUPTLY WITH CURBING AND TYPE 3 BARRICADES WHEN LESS THAN 100 FT. LONG MAY BE ALLOWED WITH DIRECTOR'S APPROVAL.
5. SIDEWALK NOT REQUIRED IF PRIVATE STREET SERVES <5 LOTS.
6. ROLLED CURB ARE NOT ALLOWED WITH A REDUCED HAMMERHEAD.

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| REV NO. | DATE | BY  | APPR | PUBLIC WORKS – STREETS AND TRANSPORTATION |
|---------|------|-----|------|-------------------------------------------|
| 1       | 3/08 | RAW | MHA  |                                           |
| 2       | 2/07 | RAW | MHA  |                                           |
| 3       | 8/08 | RAW | MHA  |                                           |
| 4       | 7/14 | RAW | MHA  |                                           |
| 5       | 1/15 | RAW | MHA  |                                           |
| 6       | 9/21 | RWA | MHA  |                                           |

APPROVED BY: *M. H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021

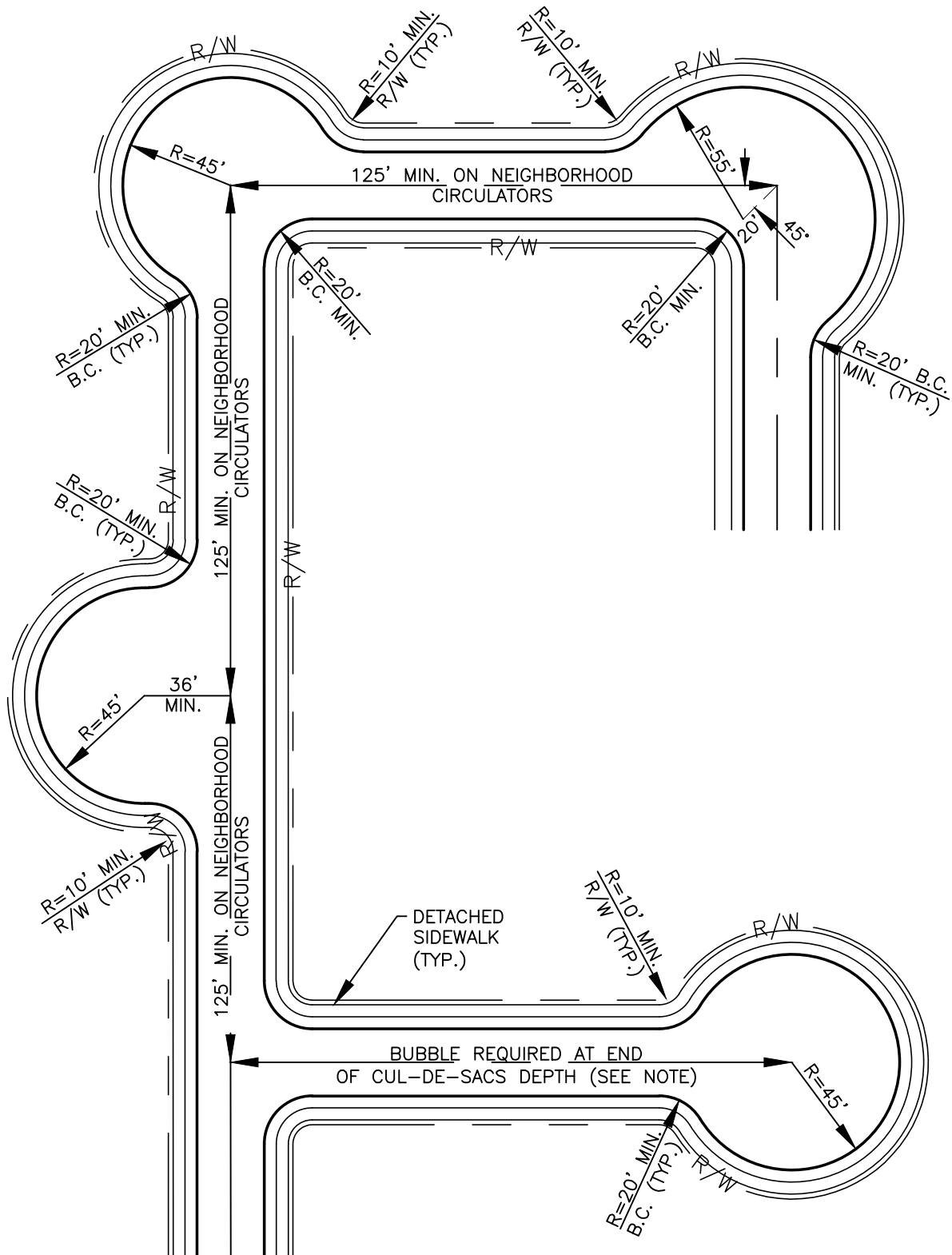
CITY OF  
**Vancouver**  
WASHINGTON

STREET TERMINATION  
FOR PERSONAL VEHICLES  
(NOT EMERGENCY VEHICLES)

STANDARD PLAN  
NUMBER

T10-01A





**NOTES:**

THE BUBBLE RADII SHOWN ON THIS FIGURE ARE FOR LOCAL RESIDENTIAL STREETS. RADII FOR CUL-DE-SAC BUBBLES FOR OTHER STREET CLASSIFICATIONS ARE SHOWN ON **STREET TERMINATION DETAIL T10-01A AND T10-01B**. THE USE OF BUBBLES (EXCEPT FOR A CUL-DE-SAC) ON OTHER THAN RESIDENTIAL STREETS MUST BE APPROVED BY A CITY DIRECTOR. RADII APPROPRIATE FOR THESE BUBBLES WILL BE ESTABLISHED AS PART OF THAT APPROVAL.

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| REV NO. | DATE | BY  | APPR | PUBLIC WORKS – STREETS AND TRANSPORTATION                                       |
|---------|------|-----|------|---------------------------------------------------------------------------------|
| 1       | 8/04 | RAW | MHA  | APPROVED BY: <i>M.H. Pedraza</i><br>ENGINEER MANAGER<br>APPROVED DATE: 9/1/2021 |
| 2       | 3/06 | RAW | MHA  |                                                                                 |
| 3       | 2/07 | RAW | MHA  |                                                                                 |
| 4       | 8/08 | RAW | MHA  |                                                                                 |
| 5       | 7/14 | RAW | MHA  |                                                                                 |
| 6       | 9/21 | RAW | MHA  |                                                                                 |

CITY OF  
**Vancouver**  
WASHINGTON

BUBBLES FOR STREETS

STANDARD PLAN NUMBER

T10-02

| REV NO. | DATE | BY  | APPR |
|---------|------|-----|------|
| 1       | 8/08 | RAW | MHA  |
| 2       | 7/14 | RAW | MHA  |
| 3       | 3/17 | RAW | MHA  |
| 4       | 7/19 | RAW | MHA  |
| 5       | 2/21 | OIS | MHA  |
| 6       | 9/21 | RAW | MHA  |

PUBLIC WORKS – STREETS  
AND TRANSPORTATION

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER

APPROVED DATE: 9/1/2021

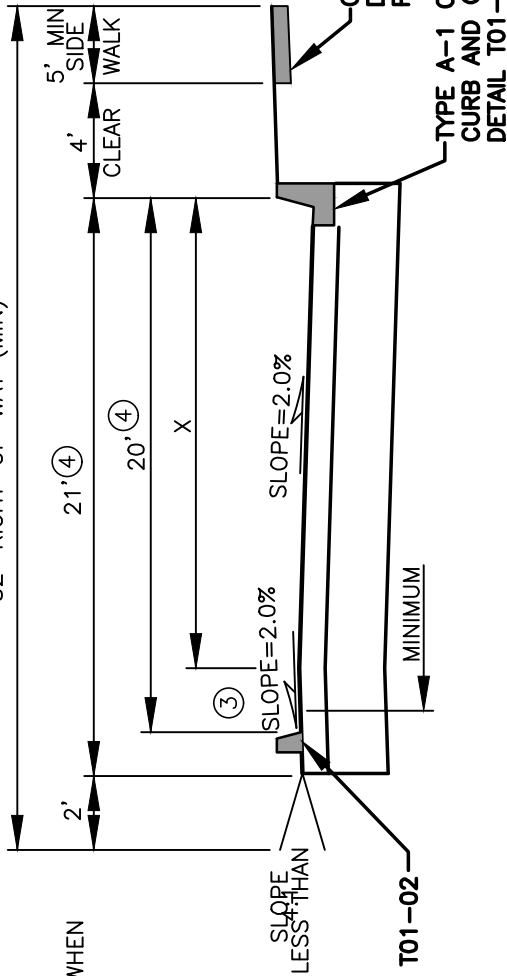


LOCAL ACCESS AND  
LOOP ROAD HALF  
STREET CONSTRUCTION

STANDARD PLAN  
NUMBER  
T10-03

- ① SIDEWALK MAY BE MEANDERING WITH THE TRANSPORTATION MANAGER'S APPROVAL.
- ② ATTACHED SIDEWALK ALLOWED WITH THE TRANSPORTATION MANAGER'S APPROVAL WHEN DETACHED SIDEWALK IS NOT FEASIBLE.
- ③ DRAINAGE CAPACITY TO BE DESIGNED FOR FULL WIDTH STREET.
- ④ AN ADDITIONAL 5 FEET OF WIDTH IS REQUIRED IF MORE THAN FIVE LOTS ARE SERVED BY THIS STREET.

32' RIGHT-OF-WAY (MIN)



TEMPORARY EXTRUDED CURB DETAIL T01-02

NEIGHBORHOOD CIRCULATOR/  
NON RESIDENTIAL LOCAL ACCESS

| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.40'                | 0.85'                  |
| A-6                 | 0.45'                | 1.00'                  |
| A-7                 | NO SECTION ESTIMATED |                        |
| OTHER               | NO SECTION ESTIMATED |                        |

NOTES:

1. NO PARKING ALLOWED UNTIL THE PAVED WIDTH IS A MINIMUM 28 FEET.
2. WHEN EXTENDING AN EXISTING HALF WIDTH ROADWAY SAWCUT A MINIMUM 1 FOOT BACK INTO EXISTING ACP FOR EXTENSION (OR 1 FOOT BACK OF TEMPORARY CURB.
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

RESIDENTIAL LOCAL ACCESS,  
LOOP CUL-DE-SAC

| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.40'                | 0.75'                  |
| A-6                 | 0.45'                | 1.00'                  |
| A-7                 | 0.35'                | 1.25'                  |
| OTHER               | NO SECTION ESTIMATED |                        |

|                                                 | X<br>FT. |
|-------------------------------------------------|----------|
| NEIGHBORHOOD CIRCULATOR                         | 18       |
| LOCAL ACCESS/<br>LOOP AND<br>CUL-DE-SAC (T4-16) | 16       |
|                                                 | 14       |

| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS AND TRANSPORTATION |
|---------|------|-----|------|-------------------------------------------|
| 1       | 7/14 | RAW | MHA  |                                           |
| 2       | 3/16 | RAW | MHA  |                                           |
| 3       | 3/17 | RAW | MHA  |                                           |
| 4       | 7/19 | RAW | MHA  |                                           |
| 5       | 2/21 | OIS | MHA  |                                           |
| 6       | 9/21 | RAW | MHA  |                                           |

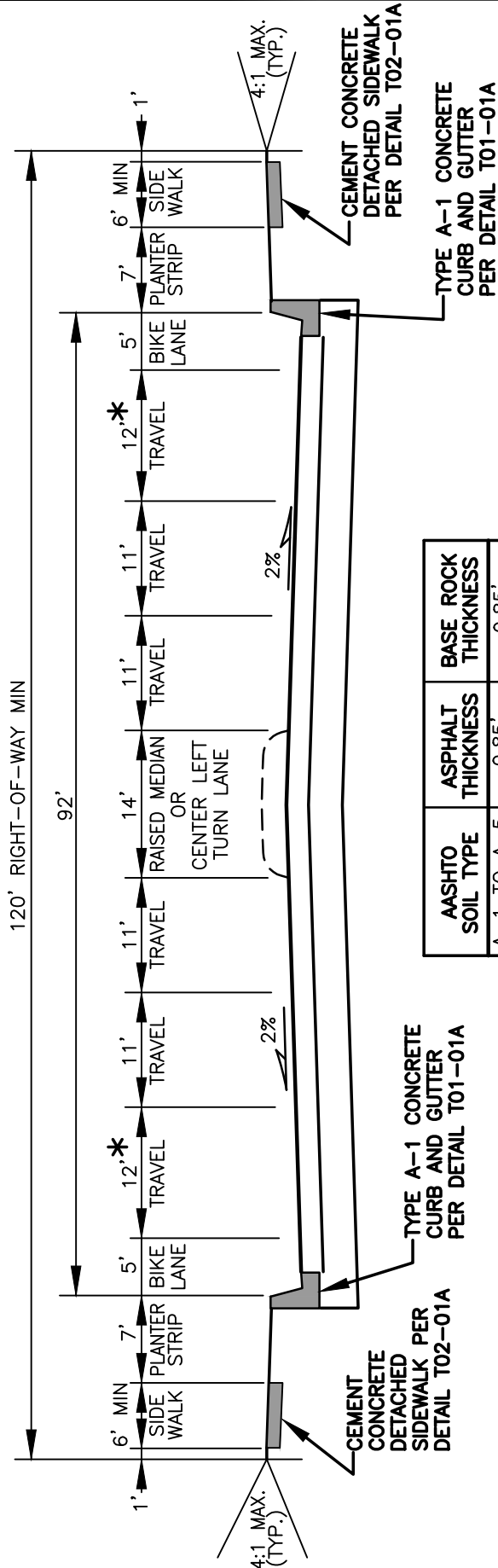
APPROVED BY: *MHA*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



6-LANE PRINCIPAL  
ARTERIAL WITH CENTER  
LEFT-TURN AND BIKE LANES

STANDARD PLAN  
NUMBER

T10-04



| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.85'                | 0.85'                  |
| A-6                 | 0.90'                | 1.25'                  |
| A-7                 | NO SECTION ESTIMATED |                        |
| OTHER               | NO SECTION ESTIMATED |                        |

**NOTES:**

- MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
- WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
- SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

\* TRAVEL LANE MAY BE REDUCED TO 11' MINIMUM TO ACCOMMODATE 6' BIKE LANE WHEN CURB AND GUTTER (A-1) IS USED.

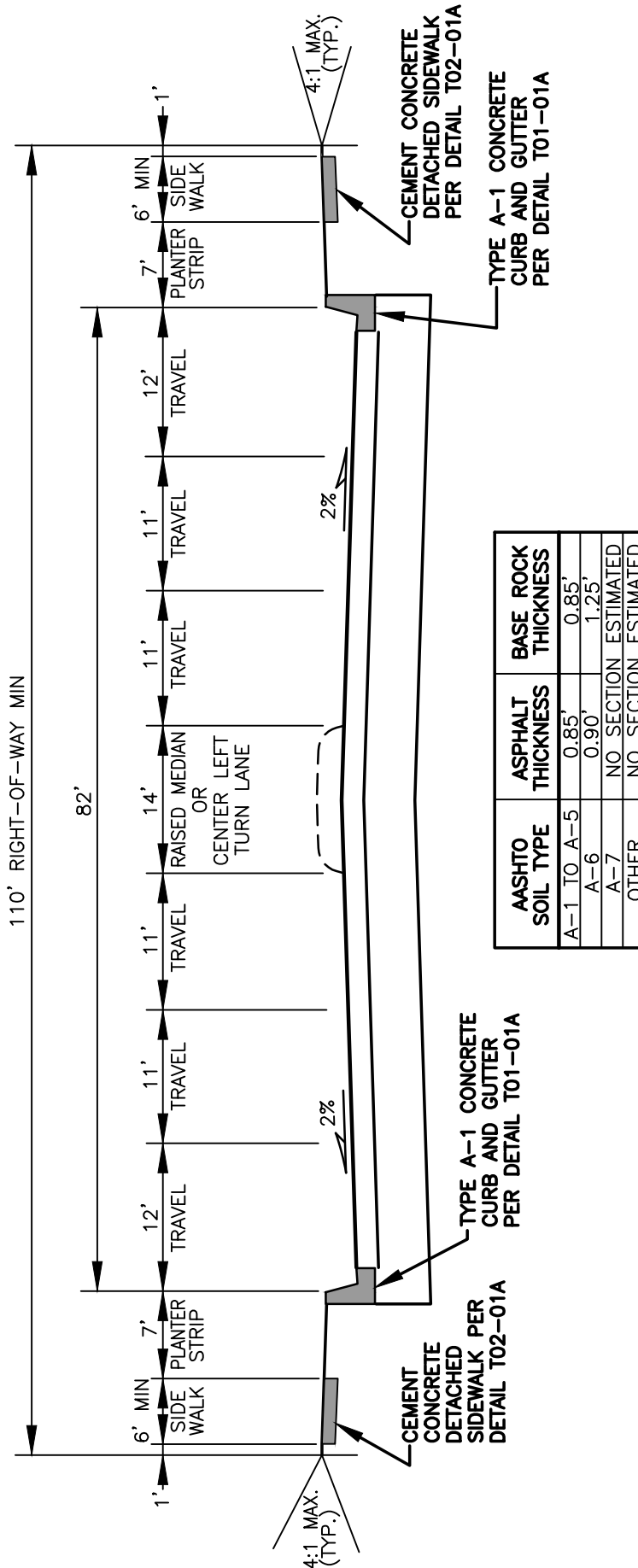
| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS<br>AND TRANSPORTATION |
|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 3/16 | RAW | MHA  |                                              |
| 3       | 3/17 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



6-LANE PRINCIPAL  
ARTERIAL WITH CENTER  
LEFT-TURN LANE

STANDARD PLAN  
NUMBER  
T10-05



#### NOTES:

- MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
- WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
- SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

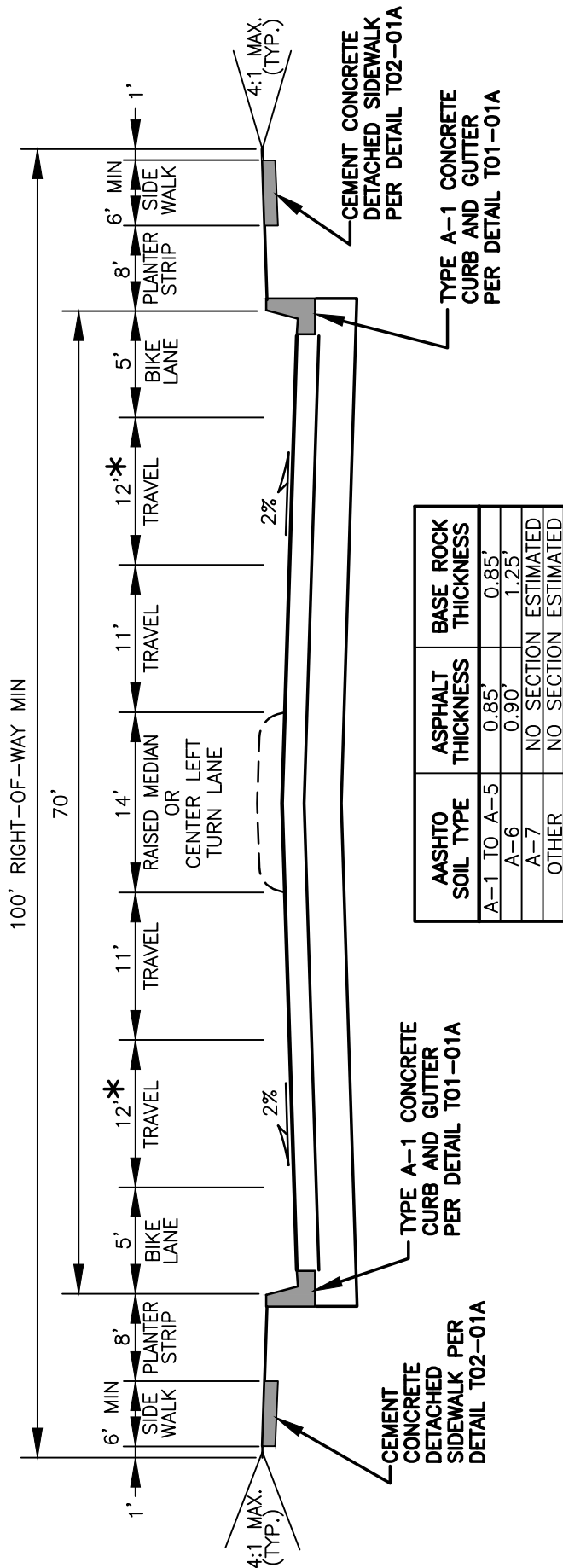
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|---------|------|-----|------|-------------------------------------------|
| 1       | 7/14 | RAW | MHA  |                                           |
| 2       | 3/16 | RAW | MHA  |                                           |
| 3       | 3/17 | RAW | MHA  |                                           |
| 4       | 7/19 | RAW | MHA  |                                           |
| 5       | 2/21 | OIS | MHA  |                                           |
| 6       | 9/21 | RAW | MHA  |                                           |

APPROVED BY: *M. H. Pedraza*  
ENGINEER MANAGER

APPROVED DATE: 9/1/2021



|                                                                           |                                   |
|---------------------------------------------------------------------------|-----------------------------------|
| 4-LANE PRINCIPAL<br>ARTERIAL WITH CENTER<br>LEFT-TURN LANE AND BIKE LANES | STANDARD PLAN<br>NUMBER<br>T10-06 |
|---------------------------------------------------------------------------|-----------------------------------|



| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.85'                | 0.85'                  |
| A-6                 | 0.90'                | 1.25'                  |
| A-7                 | NO SECTION ESTIMATED |                        |
| OTHER               | NO SECTION ESTIMATED |                        |

#### NOTES:

1. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

\* TRAVEL LANE MAY BE REDUCED TO 11' MINIMUM TO ACCOMMODATE 6' BIKE LANE WHEN CURB AND GUTTER (A-1) IS USED.

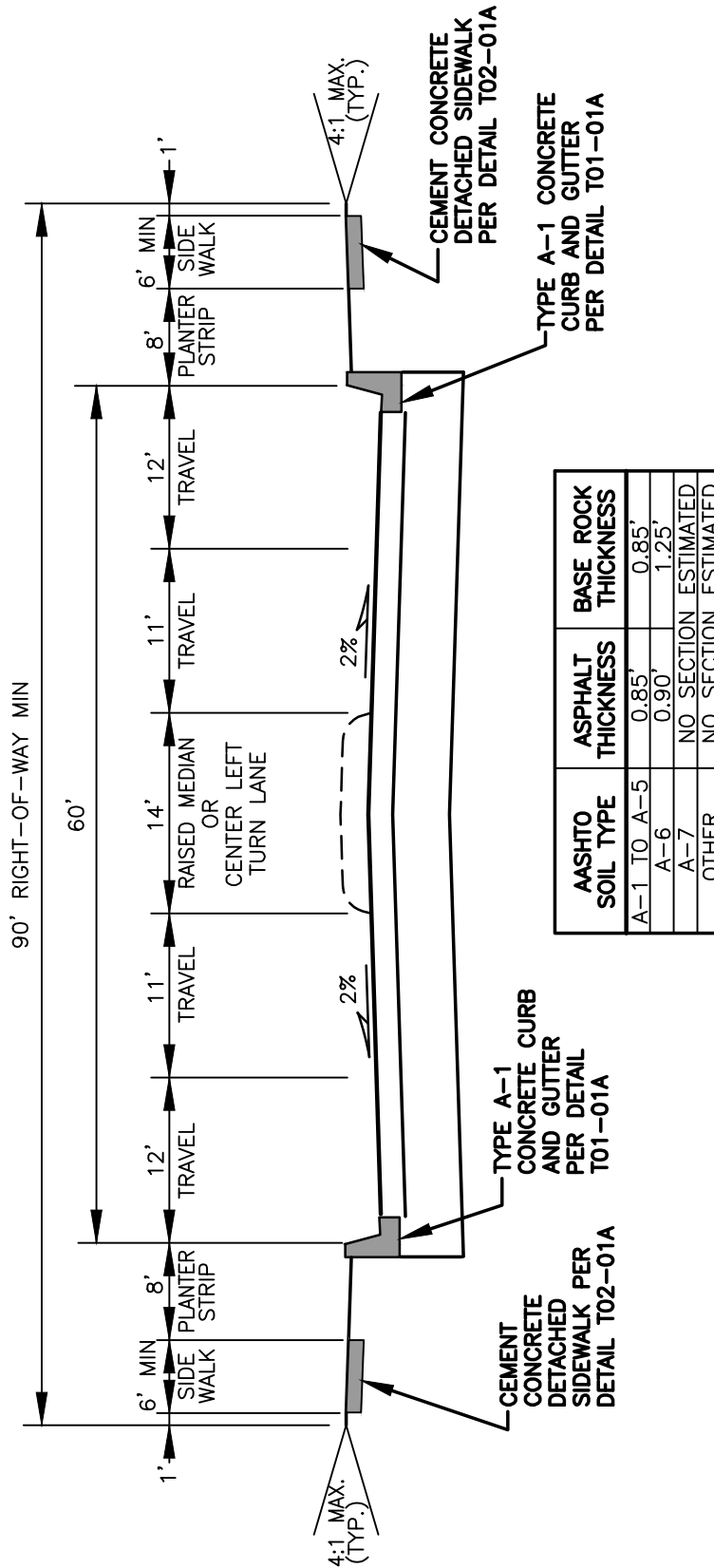
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| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS<br>AND TRANSPORTATION |  |
|---------|------|-----|------|----------------------------------------------|--|
| 1       | 8/08 | RAW | MHA  |                                              |  |
| 2       | 7/14 | RAW | MHA  |                                              |  |
| 3       | 3/17 | RAW | MHA  |                                              |  |
| 4       | 7/19 | RAW | MHA  |                                              |  |
| 5       | 2/21 | OIS | MHA  |                                              |  |
| 6       | 9/21 | RAW | MHA  |                                              |  |

APPROVED BY:   
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



| 4-LANE PRINCIPAL<br>ARTERIAL WITH CENTER<br>CENTER LEFT-TURN LANE |  | STANDARD PLAN<br>NUMBER |
|-------------------------------------------------------------------|--|-------------------------|
|                                                                   |  | T10-07                  |



**NOTES:**

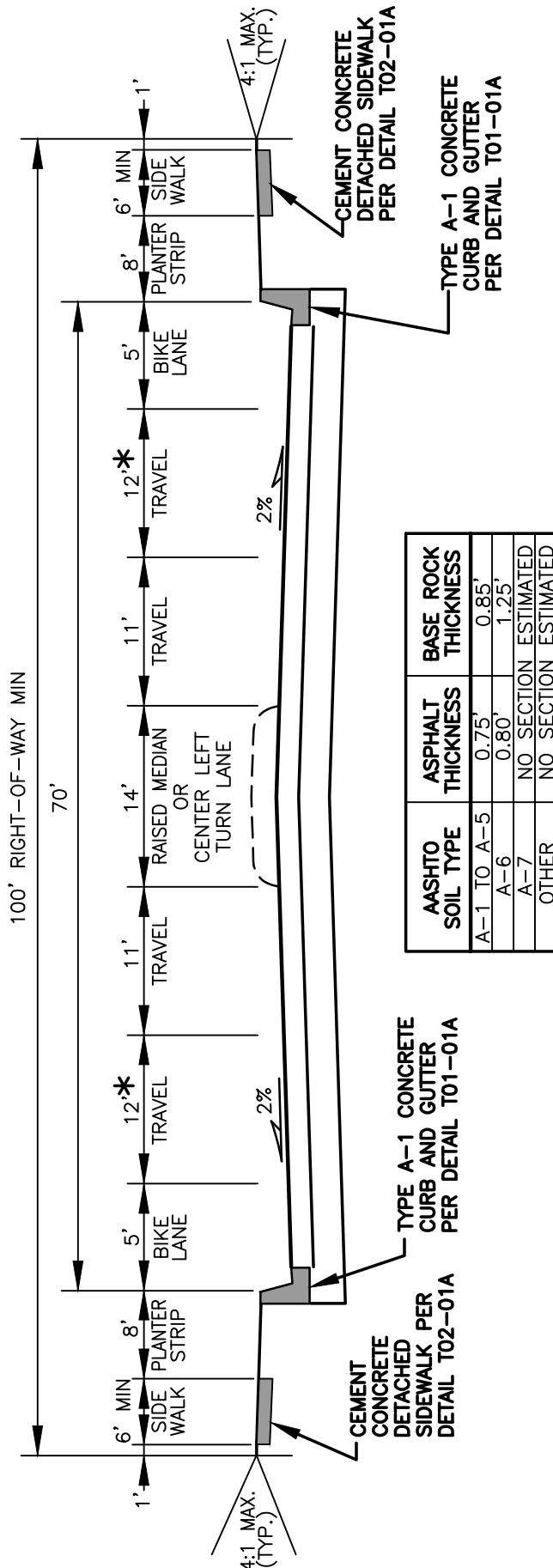
1. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS AND TRANSPORTATION |
|---------|------|-----|------|-------------------------------------------|
| 1       | 7/14 | RAW | MHA  |                                           |
| 2       | 3/16 | RAW | MHA  |                                           |
| 3       | 3/17 | RAW | MHA  |                                           |
| 4       | 7/19 | RAW | MHA  |                                           |
| 5       | 2/21 | OIS | MHA  |                                           |
| 6       | 9/21 | RAW | MHA  |                                           |

APPROVED BY: *MHA*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



|                                                                       |                                   |
|-----------------------------------------------------------------------|-----------------------------------|
| 4-LANE MINOR<br>ARTERIAL WITH CENTER<br>LEFT-TURN LANE AND BIKE LANES | STANDARD PLAN<br>NUMBER<br>T10-08 |
|-----------------------------------------------------------------------|-----------------------------------|



| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.75'                | 0.85'                  |
| A-6                 | 0.80'                | 1.25'                  |
| A-7                 | NO SECTION ESTIMATED |                        |
| OTHER               | NO SECTION ESTIMATED |                        |

**NOTES:**

1. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
  2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
  3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.
- \* TRAVEL LANE MAY BE REDUCED TO 11' MINIMUM TO ACCOMMODATE 6' BIKE LANE WHEN CURB AND GUTTER (A-1) IS USED.

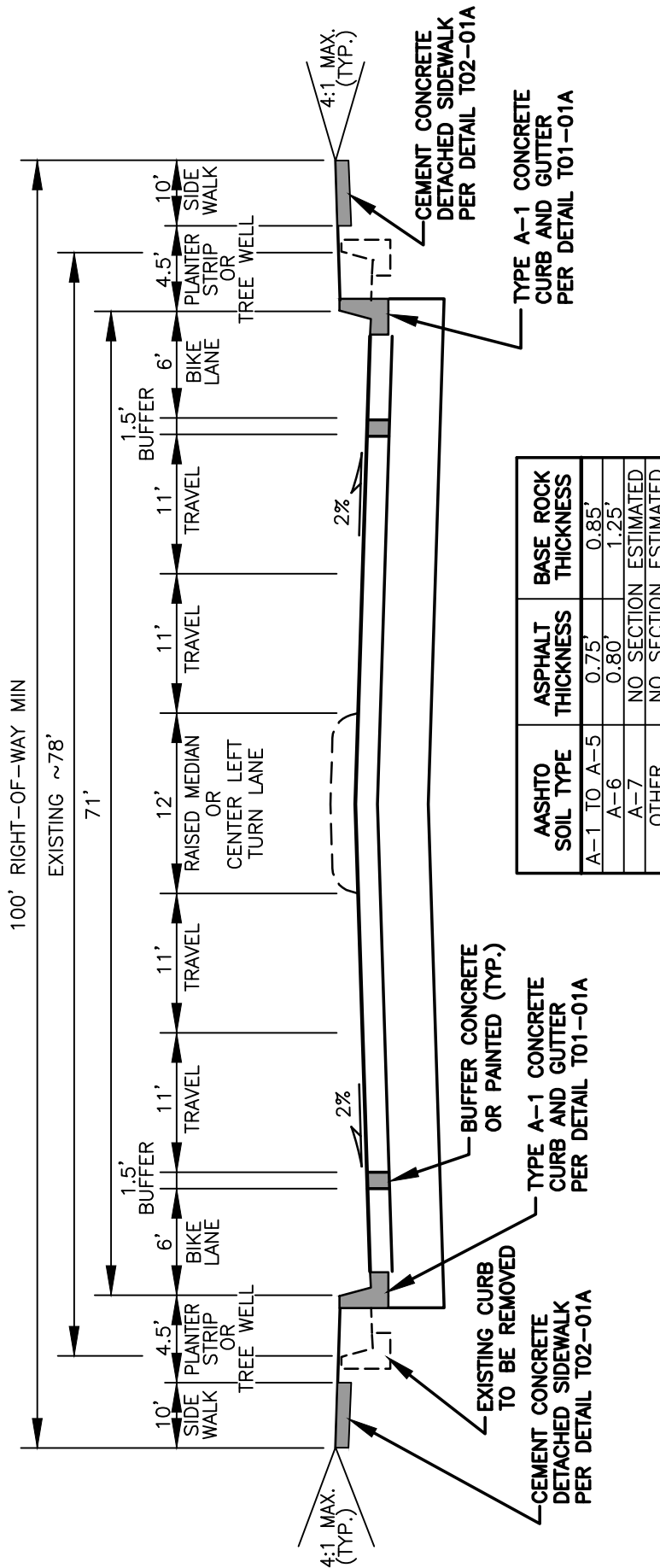
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|---------|------|-----|------|-------------------------------------------|
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| 2       | 7/14 | RAW | MHA  |                                           |
| 3       | 3/17 | RAW | MHA  |                                           |
| 4       | 7/19 | RAW | MHA  |                                           |
| 5       | 2/21 | OIS | MHA  |                                           |
| 6       | 9/21 | RAW | MHA  |                                           |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



FORT VANCOUVER WAY - CAMPUS  
STREET STANDARD  
(McLOUGHLIN TO FOURTH PLAIN)

STANDARD PLAN  
NUMBER  
T10-08A



#### NOTES:

- MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
- WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
- THIS TYPICAL SECTION IS INTENDED TO COMPLIMENT THE ADOPTED CENTRAL PARK SUBAREA PLAN AND TITLE 20 VMC 20.640.050, WHICH SETS "GREAT STREET" PEDESTRIAN/BIKE SAFETY AND ACCESS POLICY AND DESIGN GUIDELINES.
- SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

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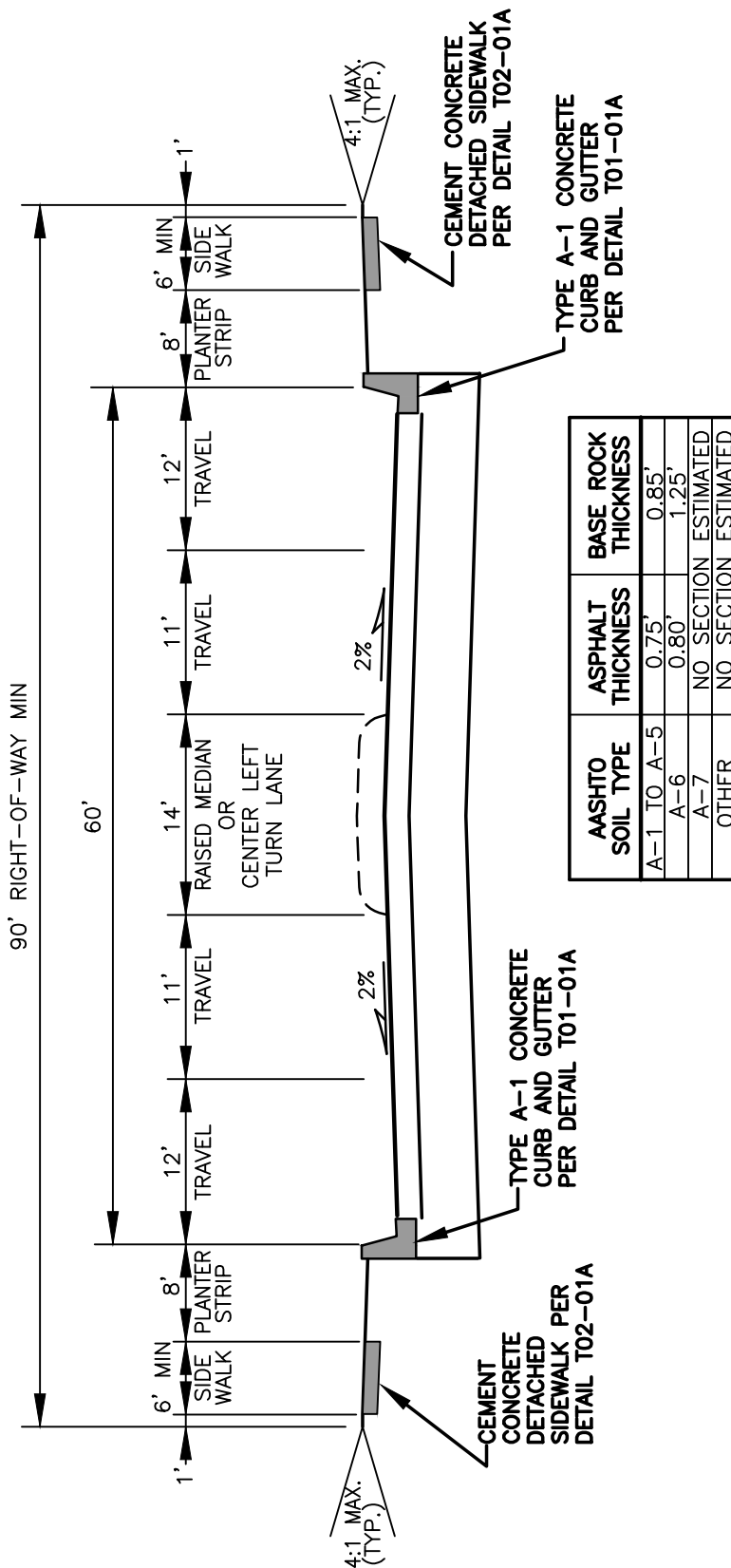
| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS<br>AND TRANSPORTATION |  |
|---------|------|-----|------|----------------------------------------------|--|
| 1       | 8/08 | RAW | MHA  |                                              |  |
| 2       | 7/14 | RAW | MHA  |                                              |  |
| 3       | 3/17 | RAW | MHA  |                                              |  |
| 4       | 7/19 | RAW | MHA  |                                              |  |
| 5       | 2/21 | OIS | MHA  |                                              |  |
| 6       | 9/21 | RAW | MHA  |                                              |  |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



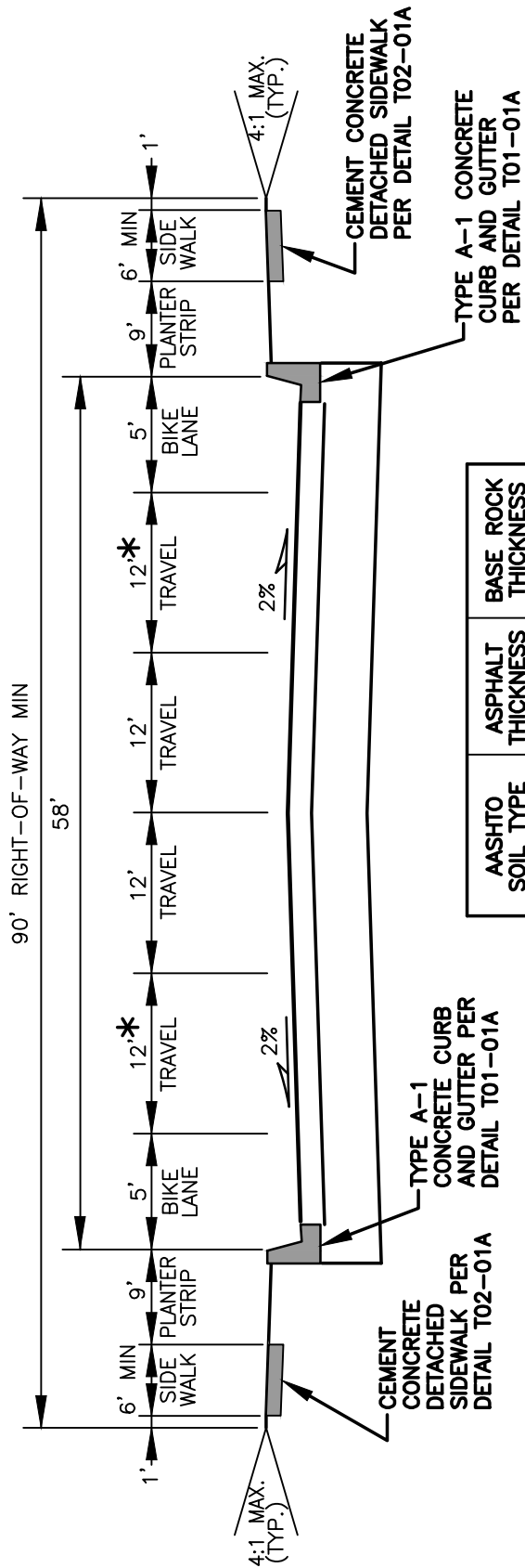
4-LANE MINOR  
ARTERIAL WITH CENTER  
LEFT-TURN LANE

STANDARD PLAN  
NUMBER  
T10-09



**NOTES:**

1. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. SEE STANDARD PLAN PLAN T10-00 FOR GENERAL NOTES.



| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.75'                | 0.85'                  |
| A-6                 | 0.80'                | 1.25'                  |
| A-7                 | NO SECTION ESTIMATED |                        |
| OTHER               | NO SECTION ESTIMATED |                        |

**NOTES:**

1. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

\* TRAVEL LANE MAY BE REDUCED TO 11' MINIMUM TO ACCOMMODATE 6' BIKE LANE WHEN CURB AND GUTTER (A-1) IS USED.

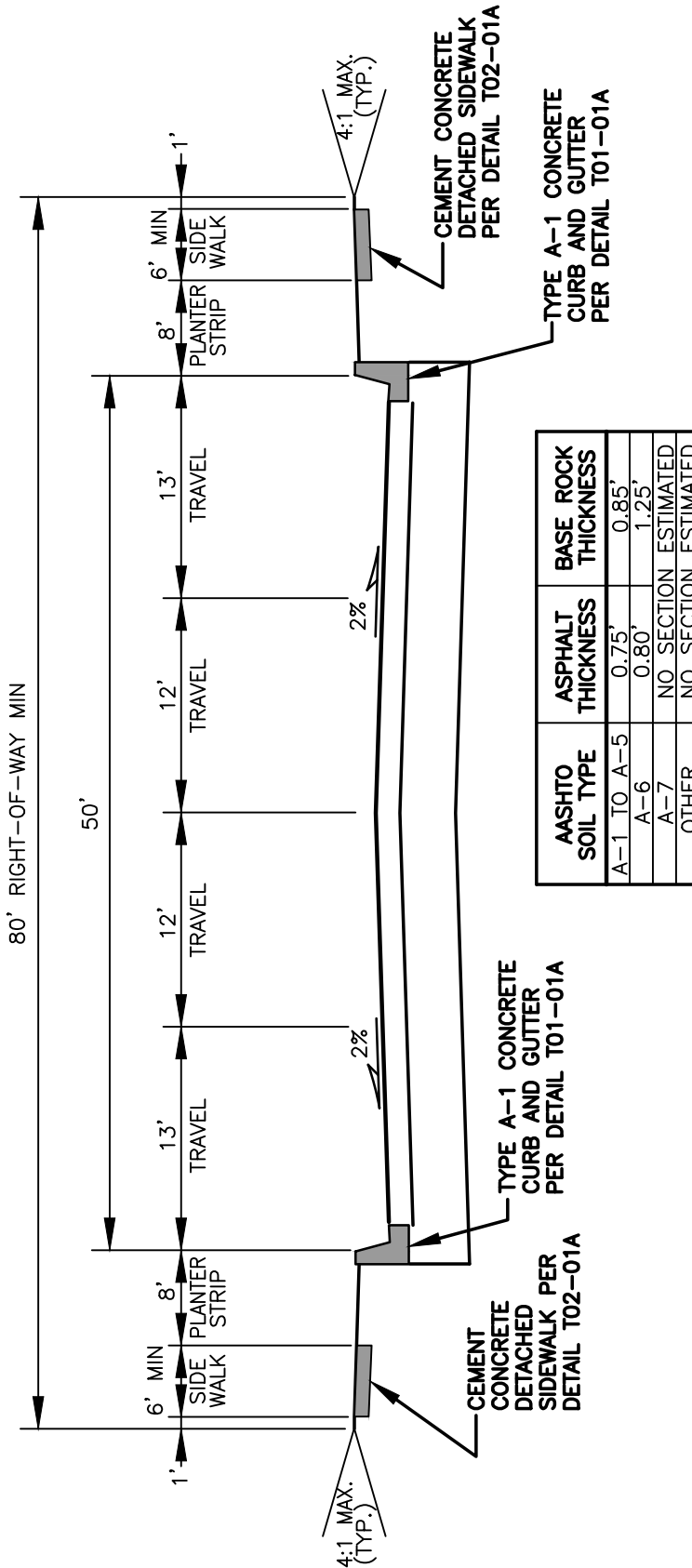
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|---------|------|-----|------|-------------------------------------------------------|--|
| 1       | 7/14 | RAW | MHA  |                                                       |  |
| 2       | 3/16 | RAW | MHA  | APPROVED BY: <i>M. H. Pedraza</i><br>ENGINEER MANAGER |  |
| 3       | 3/17 | RAW | MHA  |                                                       |  |
| 4       | 7/19 | RAW | MHA  | APPROVED DATE: 9/1/2021                               |  |
| 5       | 2/21 | OIS | MHA  |                                                       |  |
| 6       | 9/21 | RAW | MHA  |                                                       |  |

CITY OF  
**Vancouver**  
WASHINGTON

4-LANE MINOR  
ARTERIAL WITH  
BIKE LANES

STANDARD PLAN  
NUMBER

T10-10

**NOTES:**

1. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS AND TRANSPORTATION |  |
|---------|------|-----|------|-------------------------------------------|--|
| 1       | 8/08 | RAW | MHA  |                                           |  |
| 2       | 7/14 | RAW | MHA  |                                           |  |
| 3       | 3/17 | RAW | MHA  |                                           |  |
| 4       | 7/19 | RAW | MHA  |                                           |  |
| 5       | 2/21 | OIS | MHA  |                                           |  |
| 6       | 9/21 | RAW | MHA  |                                           |  |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



4-LANE MINOR ARTERIAL

STANDARD PLAN NUMBER

T10-11

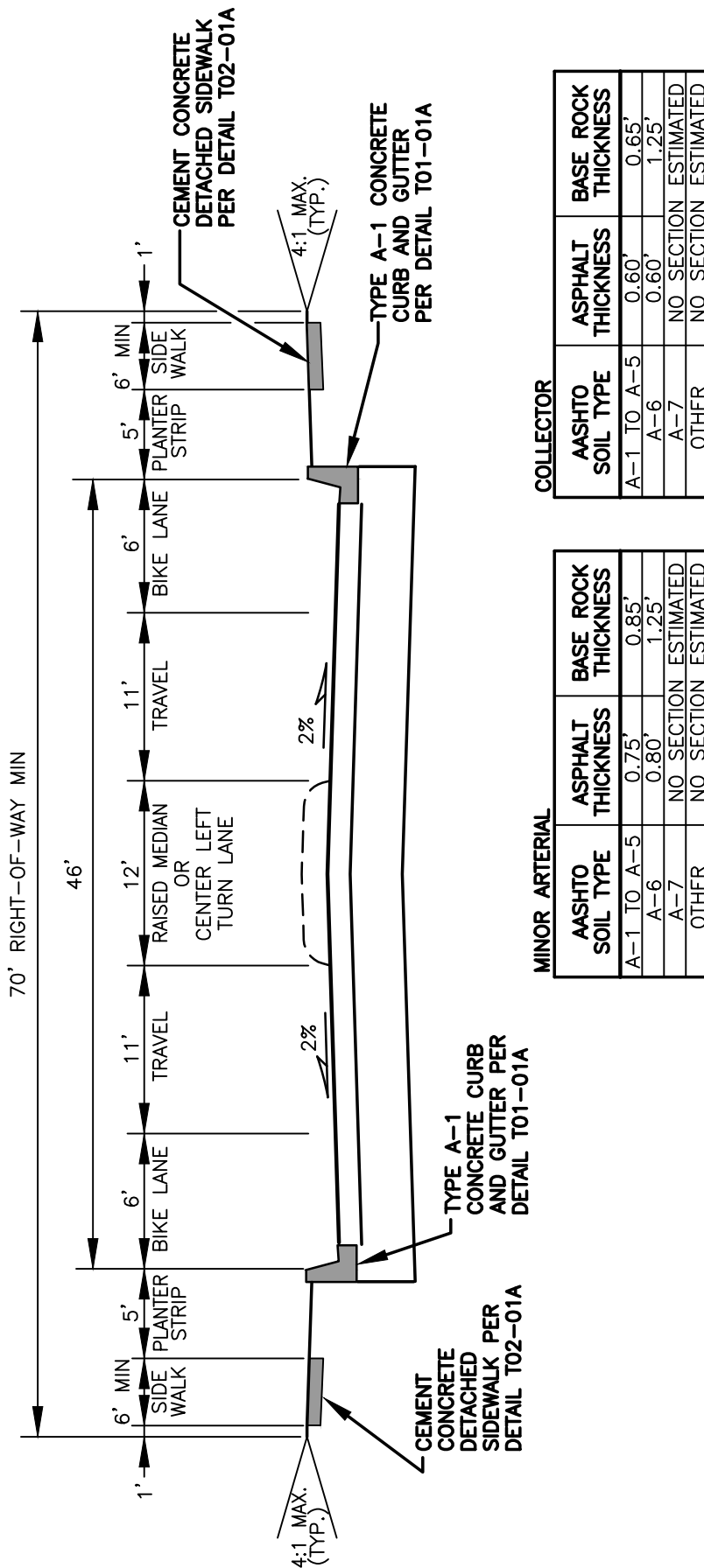
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|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 7/14 | RAW | MHA  |                                              |
| 3       | 3/17 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



3-LANE COLLECTOR/  
MINOR ARTERIAL  
WITH BIKE LANES

STANDARD PLAN  
NUMBER  
T10-12



MINOR ARTERIAL

| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.75'                | 0.85'                  |
| A-6                 | 0.80'                | 1.25'                  |
| A-7                 | NO SECTION ESTIMATED | NO SECTION ESTIMATED   |
| OTHER               | NO SECTION ESTIMATED | NO SECTION ESTIMATED   |

COLLECTOR

| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.60'                | 0.65'                  |
| A-6                 | 0.60'                | 1.25'                  |
| A-7                 | NO SECTION ESTIMATED | NO SECTION ESTIMATED   |
| OTHER               | NO SECTION ESTIMATED | NO SECTION ESTIMATED   |

NOTES:

1. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

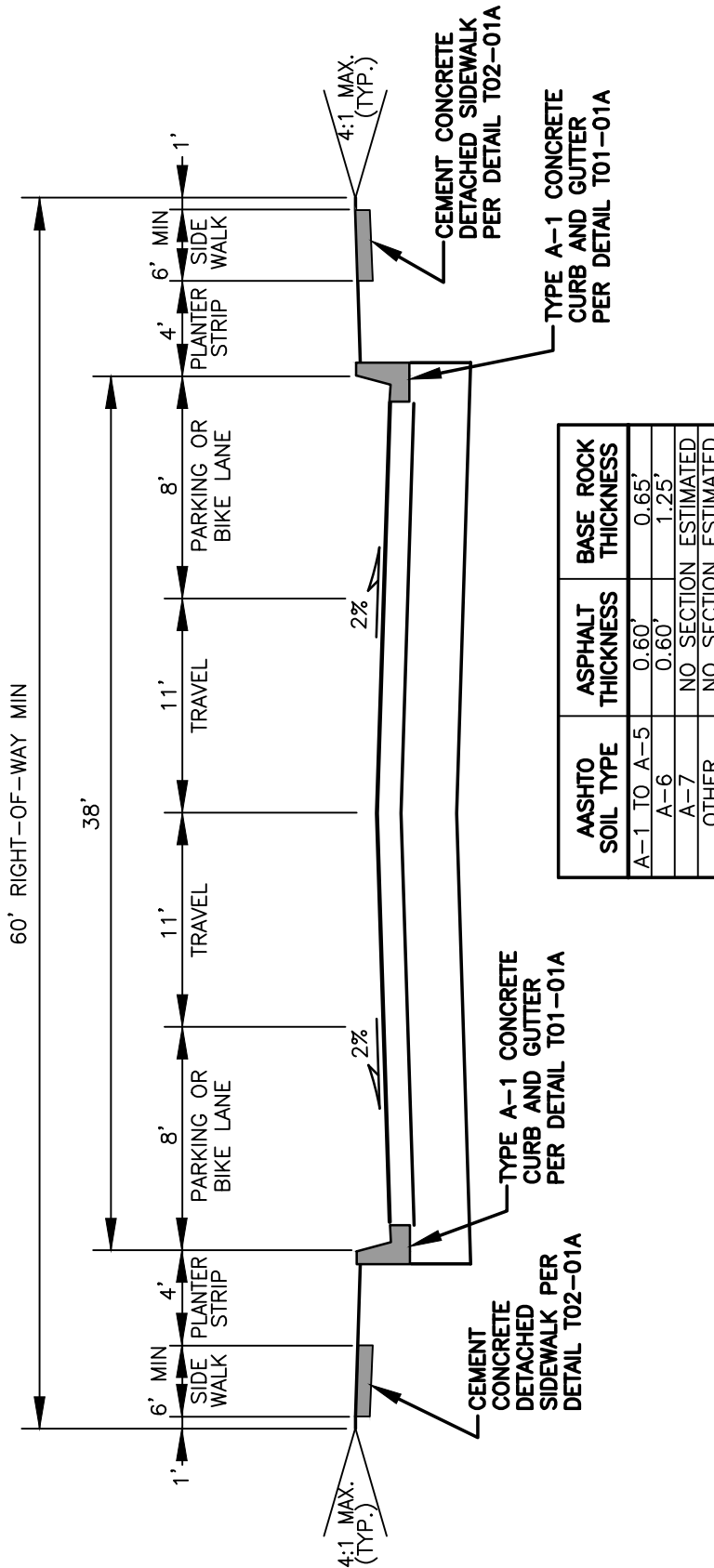
| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS<br>AND TRANSPORTATION |
|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 7/14 | RAW | MHA  |                                              |
| 3       | 3/17 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



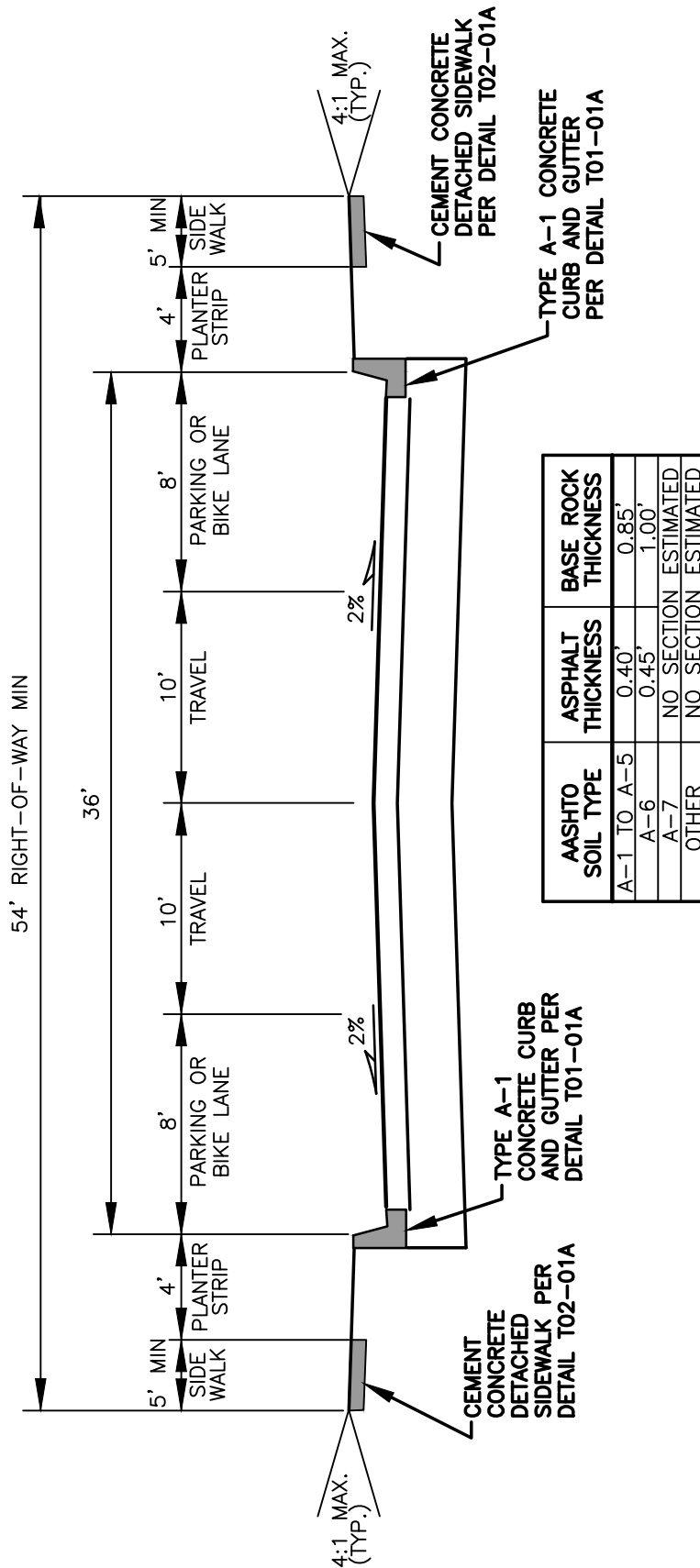
2-LANE COLLECTOR/  
MINOR ARTERIAL

STANDARD PLAN  
NUMBER  
T10-13



**NOTES:**

1. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

**NOTES:**

1. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

| REV NO. | DATE | BY  | APPR | PUBLIC WORKS – STREETS<br>AND TRANSPORTATION         |  |
|---------|------|-----|------|------------------------------------------------------|--|
| 1       | 8/08 | RAW | MHA  |                                                      |  |
| 2       | 7/14 | RAW | MHA  | APPROVED BY: <i>M.H. Pedraza</i><br>ENGINEER MANAGER |  |
| 3       | 3/17 | RAW | MHA  |                                                      |  |
| 4       | 7/19 | RAW | MHA  | APPROVED DATE: 9/1/2021                              |  |
| 5       | 2/21 | OIS | MHA  |                                                      |  |
| 6       | 9/21 | RAW | MHA  |                                                      |  |



NEIGHBORHOOD CIRCULATOR  
NON RESIDENTIAL  
LOCAL ACCESS

STANDARD PLAN  
NUMBER  
T10-14

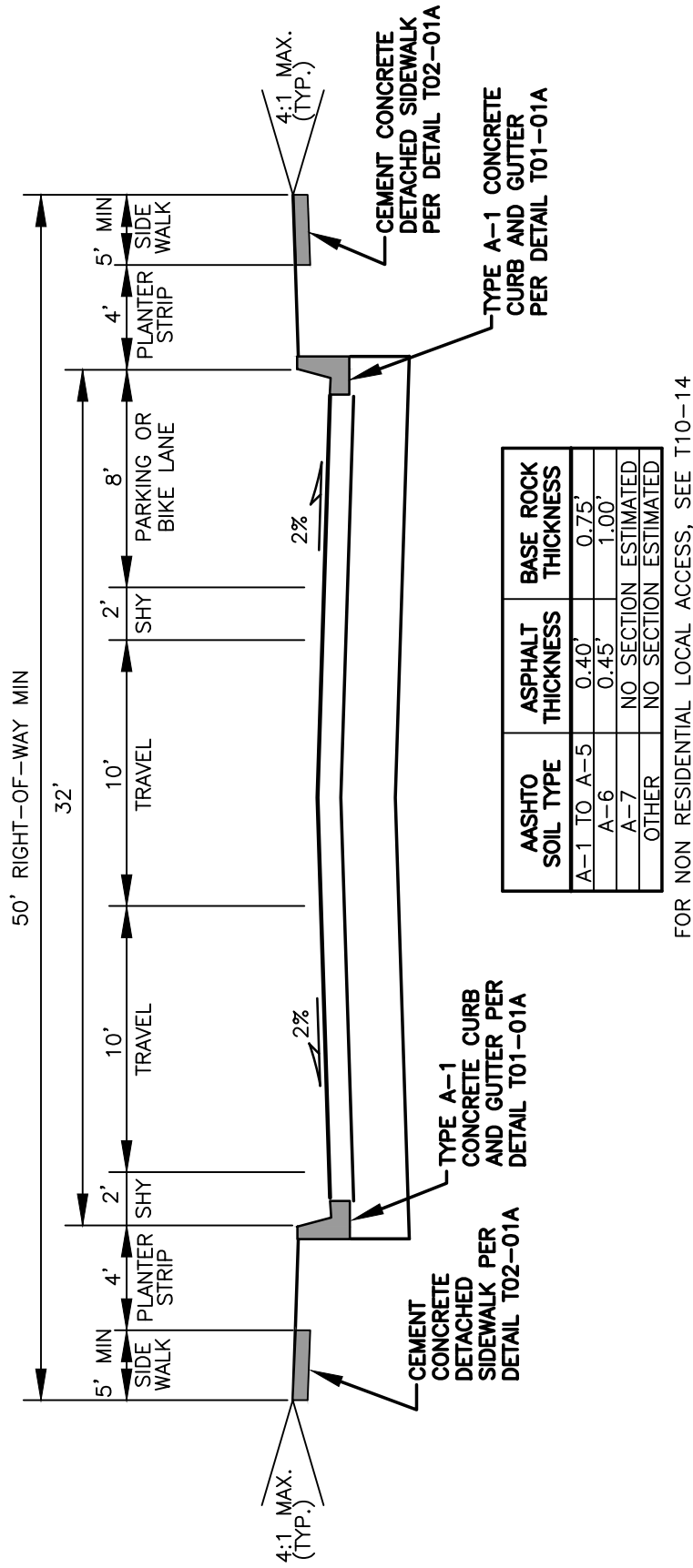
| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS<br>AND TRANSPORTATION |
|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 7/14 | RAW | MHA  |                                              |
| 3       | 3/17 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



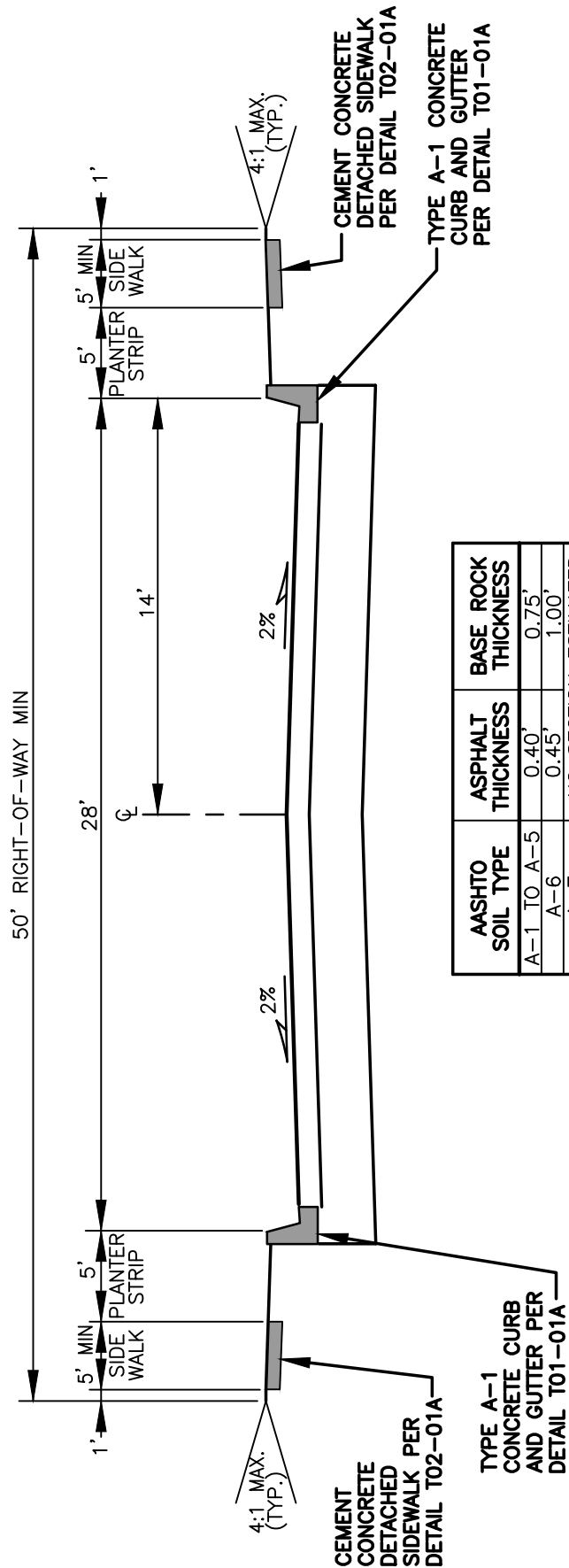
LOCAL ACCESS OPTION A  
(32' ROADWAY WIDTH)

STANDARD PLAN  
NUMBER  
T10-15A



**NOTES:**

1. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. PARKING RESTRICTED TO ONE SIDE ONLY.
4. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.



| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.40'                | 0.75'                  |
| A-6                 | 0.45'                | 1.00'                  |
| A-7                 | NO SECTION ESTIMATED |                        |
| OTHER               | NO SECTION ESTIMATED |                        |

FOR NON RESIDENTIAL LOCAL ACCESS, SEE T10-14

#### NOTES:

1. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. PARKING RESTRICTED TO ONE SIDE ONLY.
4. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS<br>AND TRANSPORTATION |
|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 7/14 | RAW | MHA  |                                              |
| 3       | 3/17 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER

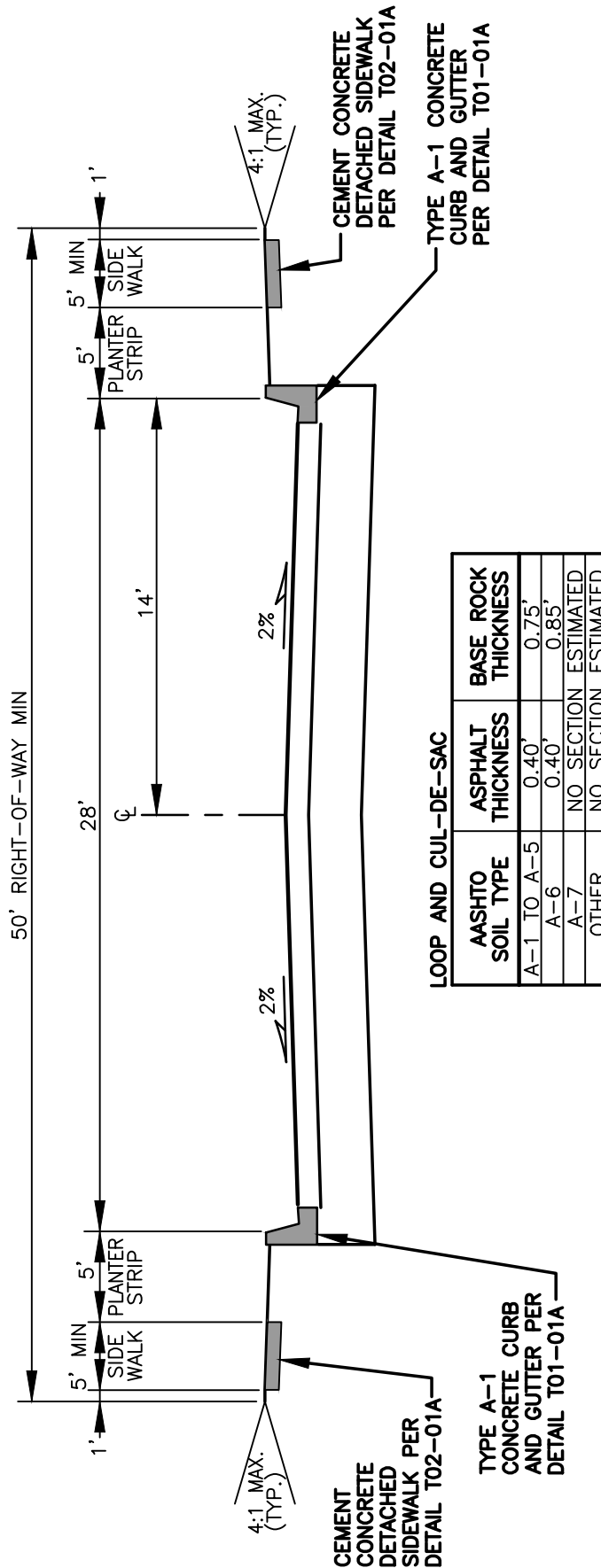
APPROVED DATE: 9/1/2021

CITY OF  
**Vancouver**  
WASHINGTON

LOCAL ACCESS OPTION B  
(28' ROADWAY WIDTH)

STANDARD PLAN  
NUMBER

T10-15B



**NOTES:**

1. SEE **STREET TERMINATION DETAIL T10-01B** FOR ADDITIONAL CUL-DE-SAC REQUIREMENTS.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. PARKING RESTRICTED TO ONE SIDE ONLY.
4. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS AND TRANSPORTATION |
|---------|------|-----|------|-------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                           |
| 2       | 7/14 | RAW | MHA  |                                           |
| 3       | 3/17 | RAW | MHA  |                                           |
| 4       | 7/19 | RAW | MHA  |                                           |
| 5       | 2/21 | OIS | MHA  |                                           |
| 6       | 9/21 | RAW | MHA  |                                           |

APPROVED BY: *MHA*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021

CITY OF  
**Vancouver**  
WASHINGTON

LOOP AND CUL-DE-SAC

STANDARD PLAN NUMBER

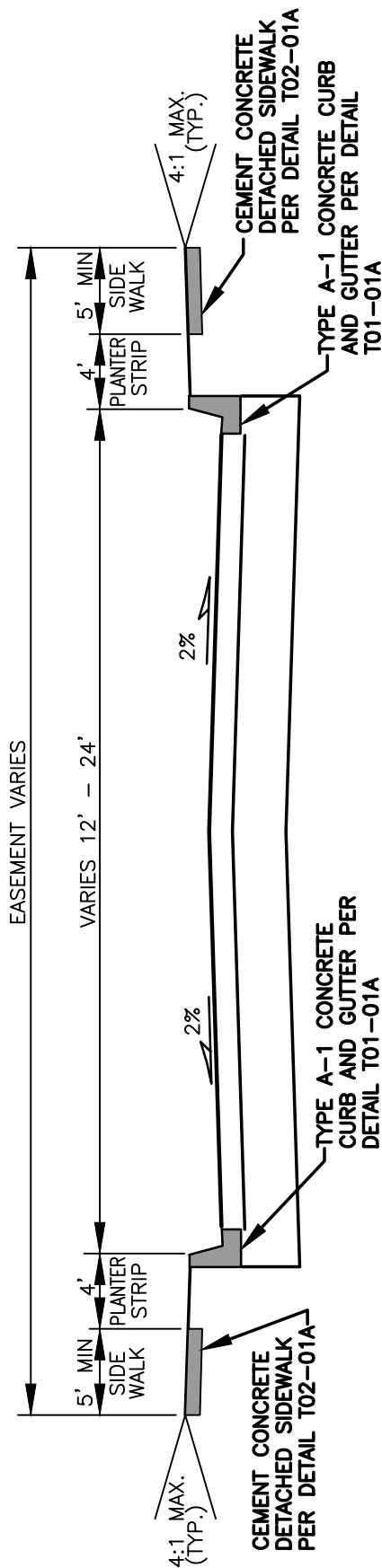
T10-16

| REV NO. | DATE | BY  | APPR |  |
|---------|------|-----|------|--|
| 1       | 7/14 | RAW | MHA  |  |
| 2       | 1/15 | RAW | MHA  |  |
| 3       | 3/17 | RAW | MHA  |  |
| 4       | 7/19 | RAW | MHA  |  |
| 5       | 2/21 | OIS | MHA  |  |
| 6       | 9/21 | RAW | MHA  |  |

PUBLIC WORKS – STREETS AND TRANSPORTATION

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER

APPROVED DATE: 9/1/2021



INFILL PRIVATE STREET 11.80.060.F-1

| NO. OF DWELLINGS | STREET LENGTH | MIN. WIDTH (CURB TO CURB) |
|------------------|---------------|---------------------------|
| 1-4              | <150'         | 12'                       |
| 1-4              | >150'         | 16'                       |
| 5-20             | >150'         | 20'                       |
| 20+              | >150'         | 24'                       |

| AASHTO SOIL TYPE | ASPHALT THICKNESS    | BASE ROCK THICKNESS |
|------------------|----------------------|---------------------|
| A-1 TO A-5       | 0.40"                | 0.75'               |
| A-6              | 0.40"                | 0.85'               |
| A-7              | NO SECTION ESTIMATED |                     |
| OTHER            | NO SECTION ESTIMATED |                     |

PRIVATE STREET 11.80.050.C-1

| NO. OF DWELLINGS | STREET LENGTH | MIN. WIDTH (CURB TO CURB) |
|------------------|---------------|---------------------------|
| 1-4              | <200'         | 12' (SEE NOTE 9)          |
| 1-4              | 200-400'      | 16' (SEE NOTE 9)          |
| 5-8              | <200'         | 16'                       |
| 5-8              | 200-400'      | 18'                       |
| 5-8              | 401-750'      | 20'                       |

NOTES:

- SIDEWALK REQUIRED ON EACH SIDE OF THE STREET WITH DRIVEWAY ACCESS.
- THE STREET SHALL BE WITHIN AN EASEMENT AND SHALL BE BOUNDED BY, AT A MINIMUM, THE BACK OF SIDEWALK OR THE BACK OF CURB, WHICHEVER IS FARTHER FROM THE STREET.
- CROWN MAY BE ELIMINATED AND SLOPE IN ONE DIRECTION. INVERTED SECTION REQUIRES A ROAD MODIFICATION.
- FOR INFILL STREETS, REFER TO V.M.C. 11.80.060 – INFILL DEVELOPMENT TRAFFIC STANDARDS.
- PRIVATE STREETS SERVING 1-4 DWELLINGS ARE NOT REQUIRED TO CONSTRUCT CURB AND GUTTER, SIDEWALK OR STREET LIGHTS (SEE T10-18).
- PERVIOUS CONCRETE MAY BE USED ON THE TRAVEL SURFACE OF A PRIVATE STREET ON A CASE BY CASE BASIS WITH THE APPROVAL OF CITY OF VANCOUVER TRANSPORTATION DEVELOPMENT REVIEW. THE PERVIOUS CONCRETE DESIGN SHALL BE INCLUDED WITH THE PROJECT'S FC SUBMITTAL.
- SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

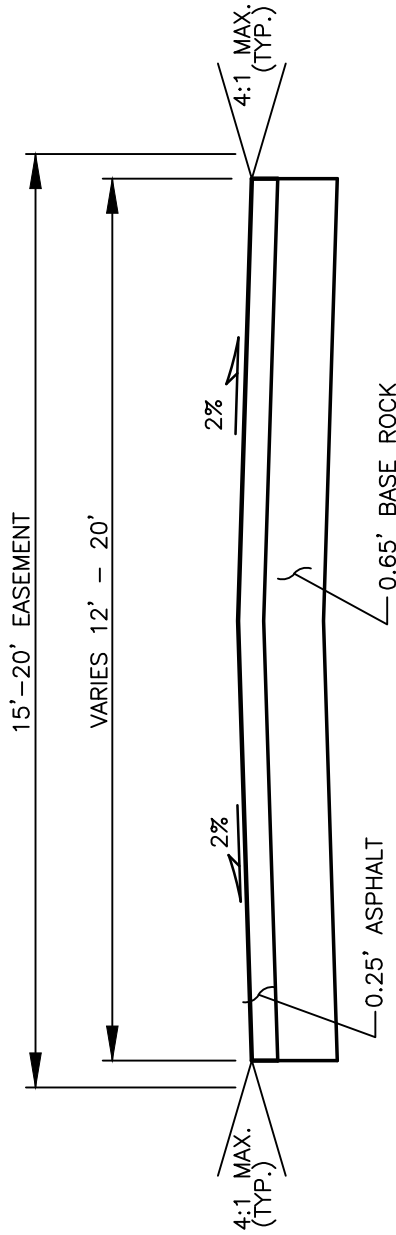
PRIVATE STREET

STANDARD PLAN NUMBER  
T10-17



| REV NO. | DATE | BY  | APPR | PUBLIC WORKS – STREETS<br>AND TRANSPORTATION |
|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 7/14 | RAW | MHA  |                                              |
| 3       | 1/15 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



| LENGTH    | MIN. WIDTH<br>(CURB TO CURB) |
|-----------|------------------------------|
| <150'     | 12'*                         |
| 150'-400' | 16'*                         |

\*FIRE CODE MAY REQUIRE 20'.

#### NOTES:

1. PRIOR TO ANY PAVEMENT DESIGN, CONTACT PUBLIC WORKS PAVEMENT MANAGER FOR DESIGN METHODOLOGY.
2. CROWN MAY BE ELIMINATED BY SLOPING IN ONE DIRECTION. INVERTED SECTION REQUIRES A ROAD MODIFICATION.
3. FOR INFILL STREETS, REFER TO V.M.C. 11.80.060 – INFILL DEVELOPMENT TRAFFIC STANDARDS.
4. PROVIDE TURNAROUNDS PER **STREET TERMINATION DETAIL T10-01** AND **VMC TABLE 11.80.070.C-3**.
5. PERVIOUS CONCRETE MAY BE USED ON THE TRAVEL SURFACE OF A PRIVATE STREET ON A CASE BY CASE BASIS WITH THE APPROVAL OF CITY OF VANCOUVER TRANSPORTATION DEVELOPMENT REVIEW. THE PERVIOUS CONCRETE DESIGN SHALL BE INCLUDED WITH THE PROJECT'S FC SUBMITTAL.
6. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

PRIVATE STREET  
1-4 DWELLINGS

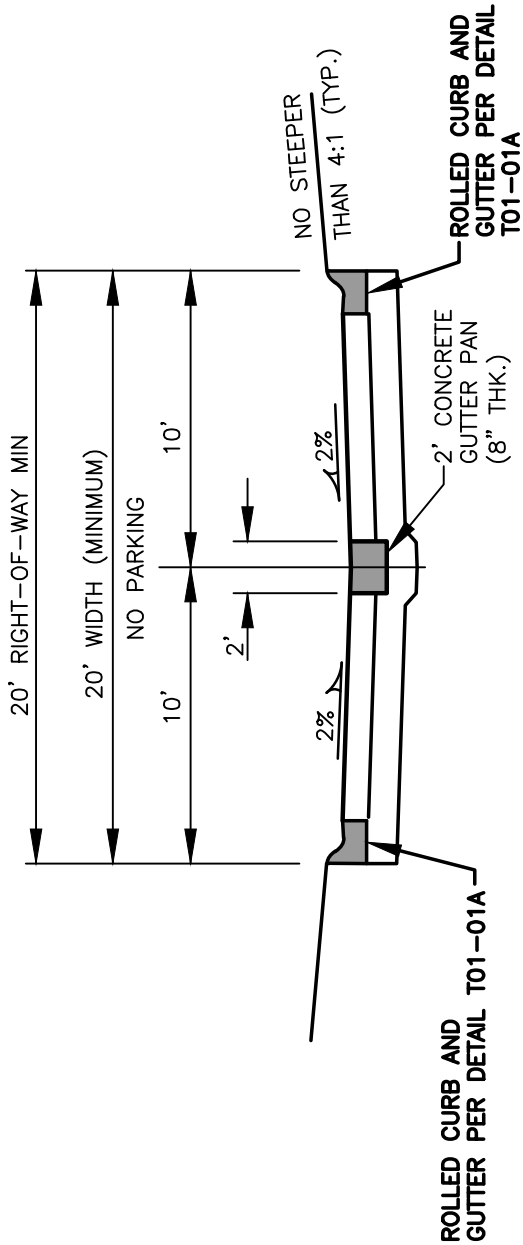
STANDARD PLAN  
NUMBER  
T10-18

| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS<br>AND TRANSPORTATION |
|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 7/14 | RAW | MHA  |                                              |
| 3       | 3/17 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



|       |                                   |
|-------|-----------------------------------|
| ALLEY | STANDARD PLAN<br>NUMBER<br>T10-19 |
|-------|-----------------------------------|



| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.40'                | 0.65'                  |
| A-6                 | 0.30'                | 0.75'                  |
| A-7                 | NO SECTION ESTIMATED |                        |
| OTHER               | NO SECTION ESTIMATED |                        |

**NOTES:**

1. ADDITIONAL RIGHT-OF-WAY MAY BE REQUIRED AT CURVES AND CONNECTIONS TO STREETS.
2. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

I:\CITYAPPS\AUTOCAD\STD\_DETAILS\DRAWING\_FILES\T10-20

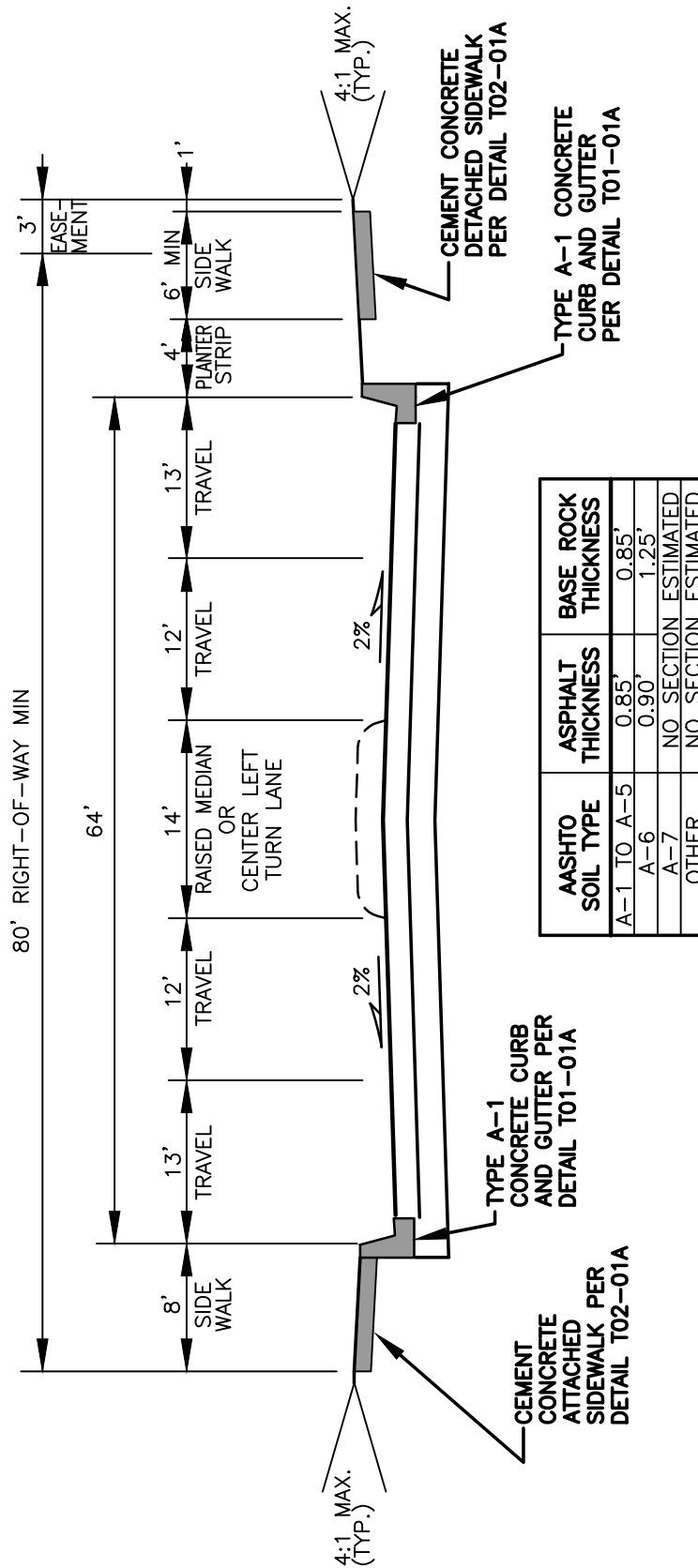
| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS<br>AND TRANSPORTATION |
|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 7/14 | RAW | MHA  |                                              |
| 3       | 3/17 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



5-LANE PRIMARY  
INDUSTRIAL II

STANDARD PLAN  
NUMBER  
T10-20



#### NOTES:

1. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
2. PRIOR TO ANY PAVEMENT DESIGN, CONTACT PUBLIC WORKS PAVEMENT MANAGER FOR DESIGN METHODOLOGY.
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

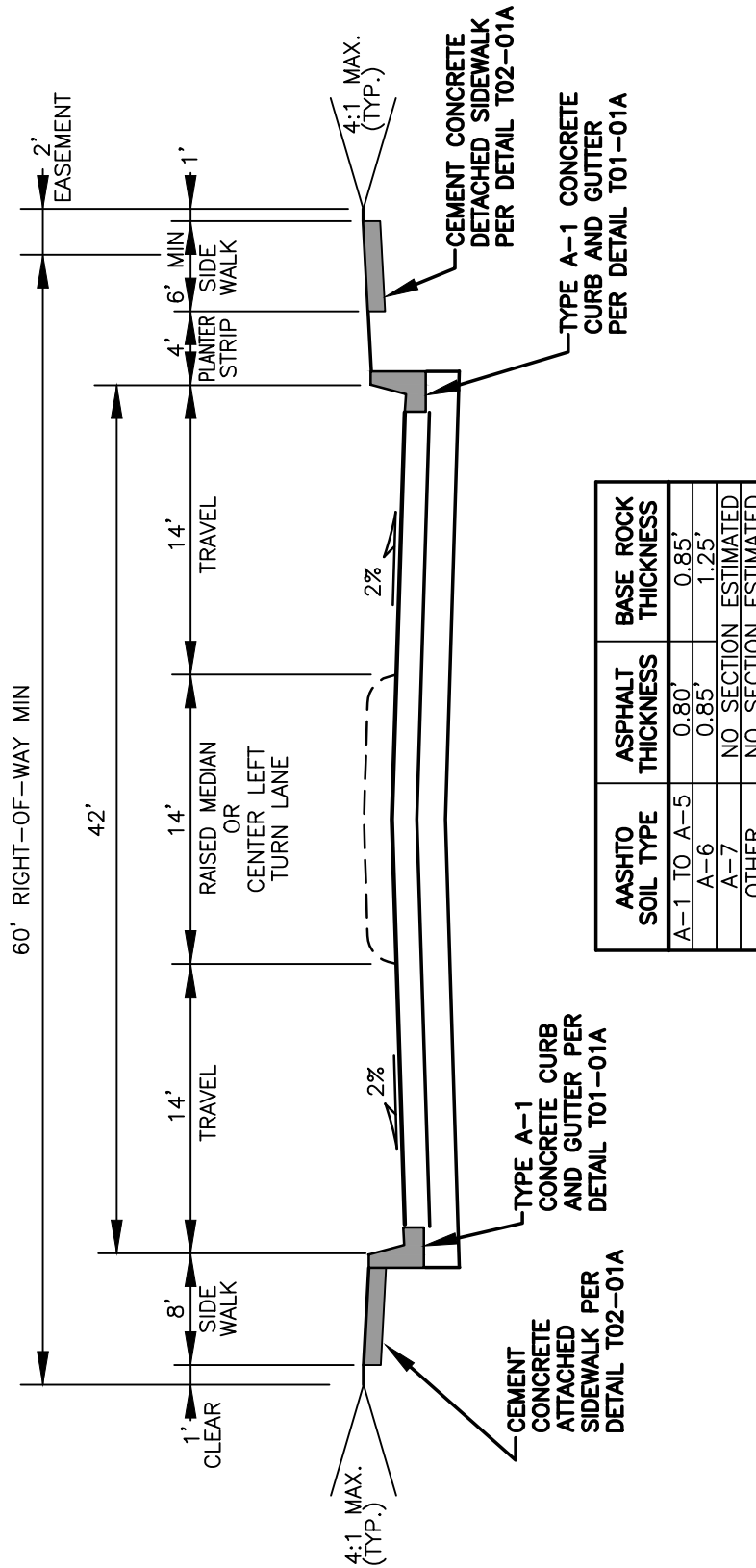
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| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS<br>AND TRANSPORTATION |
|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 7/14 | RAW | MHA  |                                              |
| 3       | 3/17 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



|                                |                                   |
|--------------------------------|-----------------------------------|
| 3-LANE PRIMARY<br>INDUSTRIAL I | STANDARD PLAN<br>NUMBER<br>T10-21 |
|--------------------------------|-----------------------------------|



# **NOTES:**

1. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
2. PRIOR TO ANY PAVEMENT DESIGN, CONTACT PUBLIC WORKS PAVEMENT MANAGER FOR DESIGN METHODOLOGY.
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

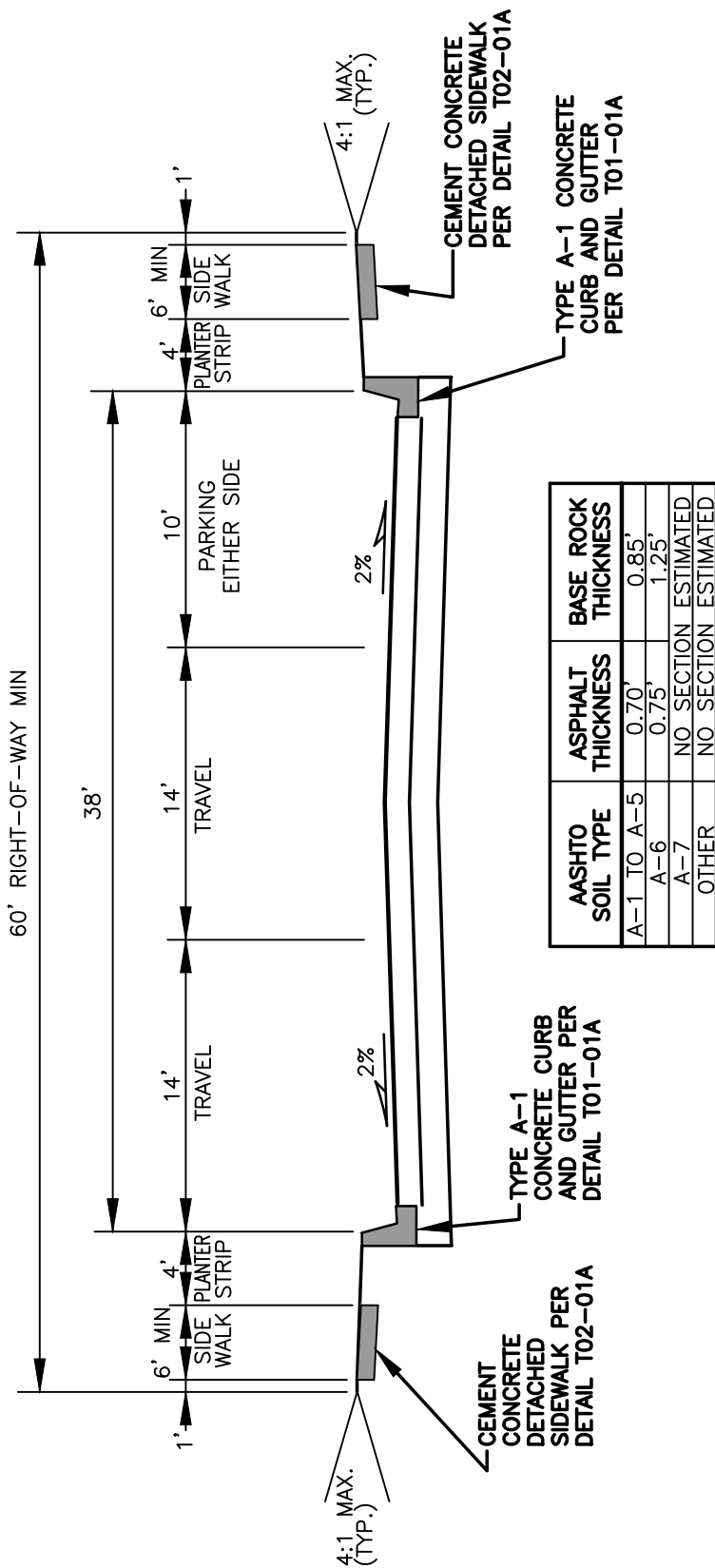
| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS<br>AND TRANSPORTATION |
|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 7/14 | RAW | MHA  |                                              |
| 3       | 3/17 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



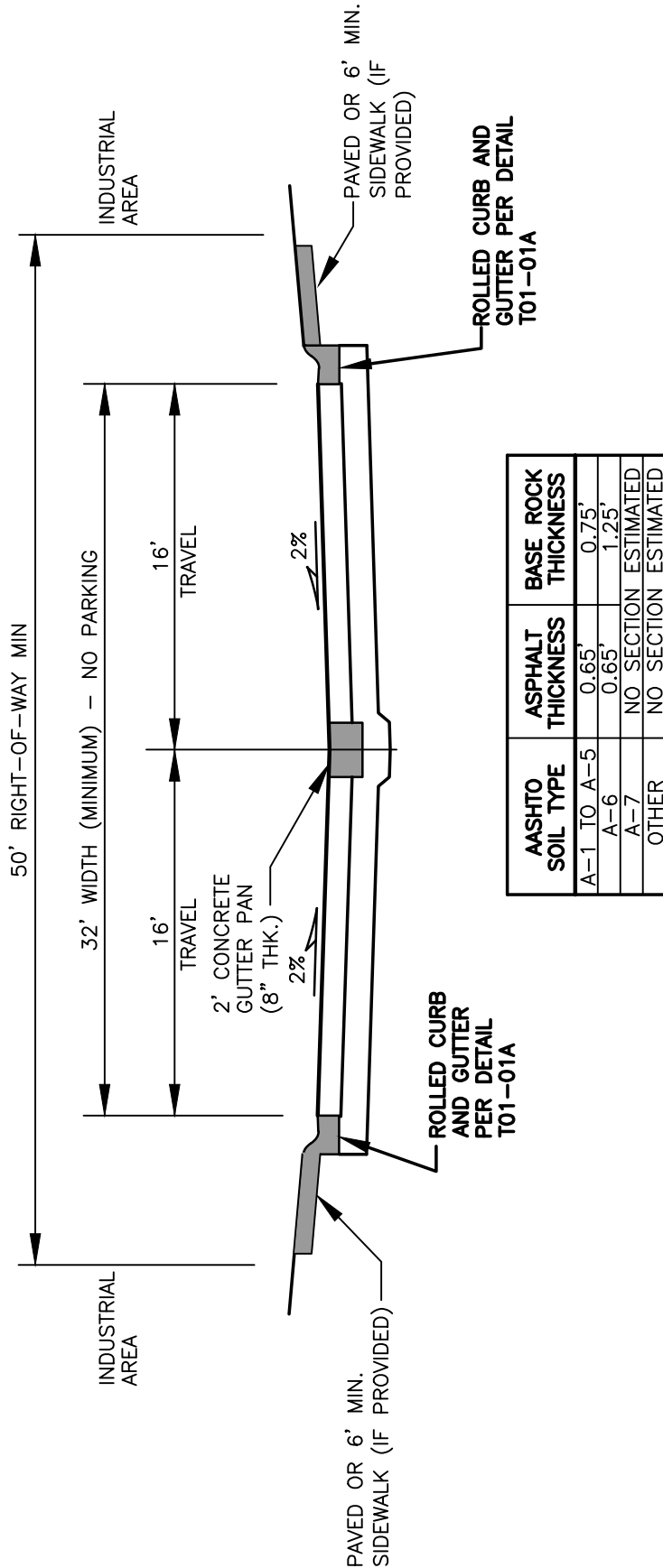
2-LANE SECONDARY  
INDUSTRIAL

STANDARD PLAN  
NUMBER  
T10-22



**NOTES:**

1. A PAVEMENT DESIGN REPORT SHALL BE DONE FOR ALL PCC PAVEMENT CONSTRUCTION.
2. MEANDERING SIDEWALKS MAY BE ALLOWED WITH THE DIRECTOR'S APPROVAL.
3. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
4. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.



| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.65'                | 0.75'                  |
| A-6                 | 0.65'                | 1.25'                  |
| A-7                 | NO SECTION ESTIMATED | NO SECTION ESTIMATED   |
| OTHER               | NO SECTION ESTIMATED | NO SECTION ESTIMATED   |

**NOTES:**

1. IF BUILT, SIDEWALKS SHALL HAVE A CONCRETE DEPTH OF 6" (INCHES) MIN.
2. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

| REV NO. | DATE | BY  | APPR | PUBLIC WORKS – STREETS<br>AND TRANSPORTATION |
|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 7/14 | RAW | MHA  |                                              |
| 3       | 3/17 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021

CITY OF  
**Vancouver**  
WASHINGTON

2-LANE  
LOCAL INDUSTRIAL

STANDARD PLAN  
NUMBER  
T10-23

I:\CITYAPPS\AUTOCAD\STD\_DETAILS\DRAWING\_FILES\T10-24A

SEE VMC  
20.925.060  
STREET TREES  
SPACING (TYP.)

SEE CITY  
STREET LIGHTING  
REQUIREMENTS  
SCHEDULE  
(T21-01A) FOR  
SPACING

SEE SHARED  
DRIVEWAY DETAIL  
T01-08 (TYP.)

10' PUBLIC  
EASEMENT

30' RIGHT-OF-WAY

10' PUBLIC  
EASEMENT

5' PLANTER  
STRIP

5' DETACHED  
SIDEWALK

10' TRAVEL  
LANE

10' TRAVEL  
LANE

8'  
PARKING/  
BULB OUT

8'  
ATTACHED  
SIDEWALK

MIN. 2 PARKING SPACES BETWEEN  
BULB OUTS. SEE ON-STREET  
PARALLEL PARKING STALL  
MARKINGS (T29-50) FOR SPACING

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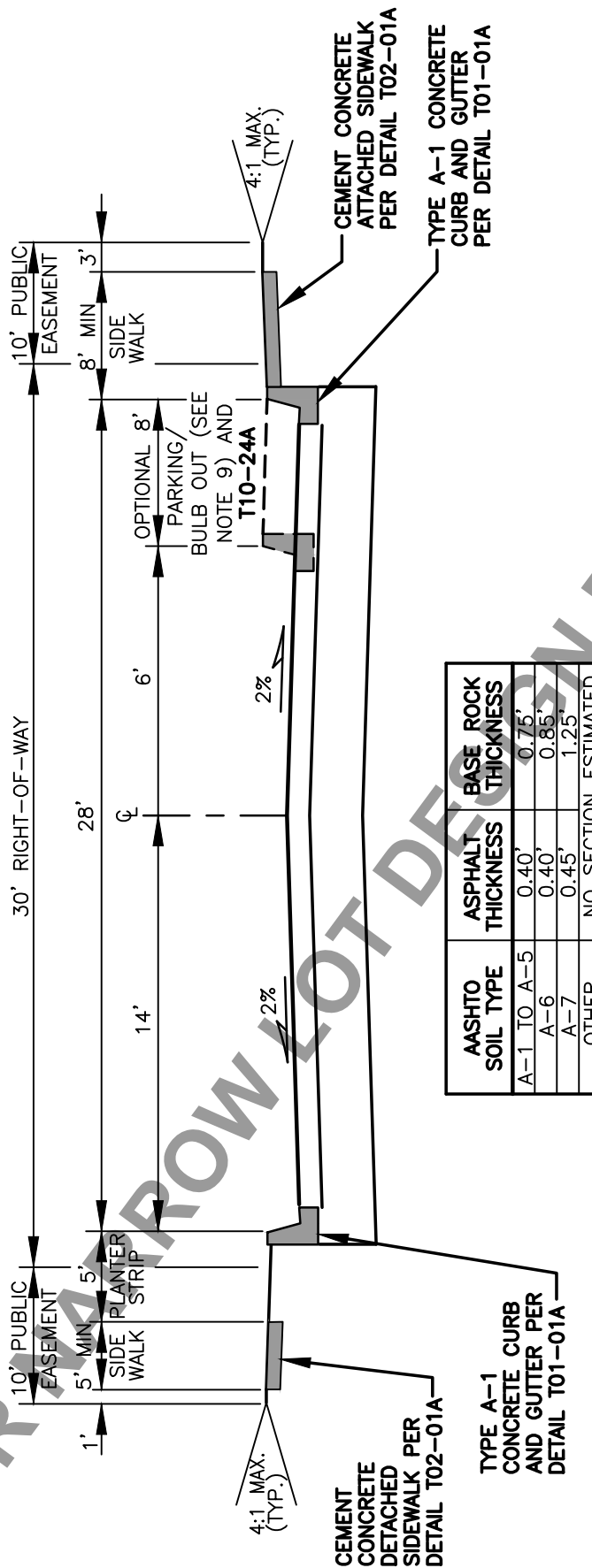
| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS AND TRANSPORTATION |
|---------|------|-----|------|-------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                           |
| 2       | 7/14 | RAW | MHA  |                                           |
| 3       | 3/17 | RAW | MHA  |                                           |
| 4       | 7/19 | RAW | MHA  |                                           |
| 5       | 2/21 | OIS | MHA  |                                           |
| 6       | 9/21 | RAW | MHA  |                                           |

APPROVED BY: *M.H. Pedraza*  
ENGINEER MANAGER  
APPROVED DATE: 9/1/2021



NARROW LOT  
STREET SECTION

STANDARD PLAN  
NUMBER  
T10-24B

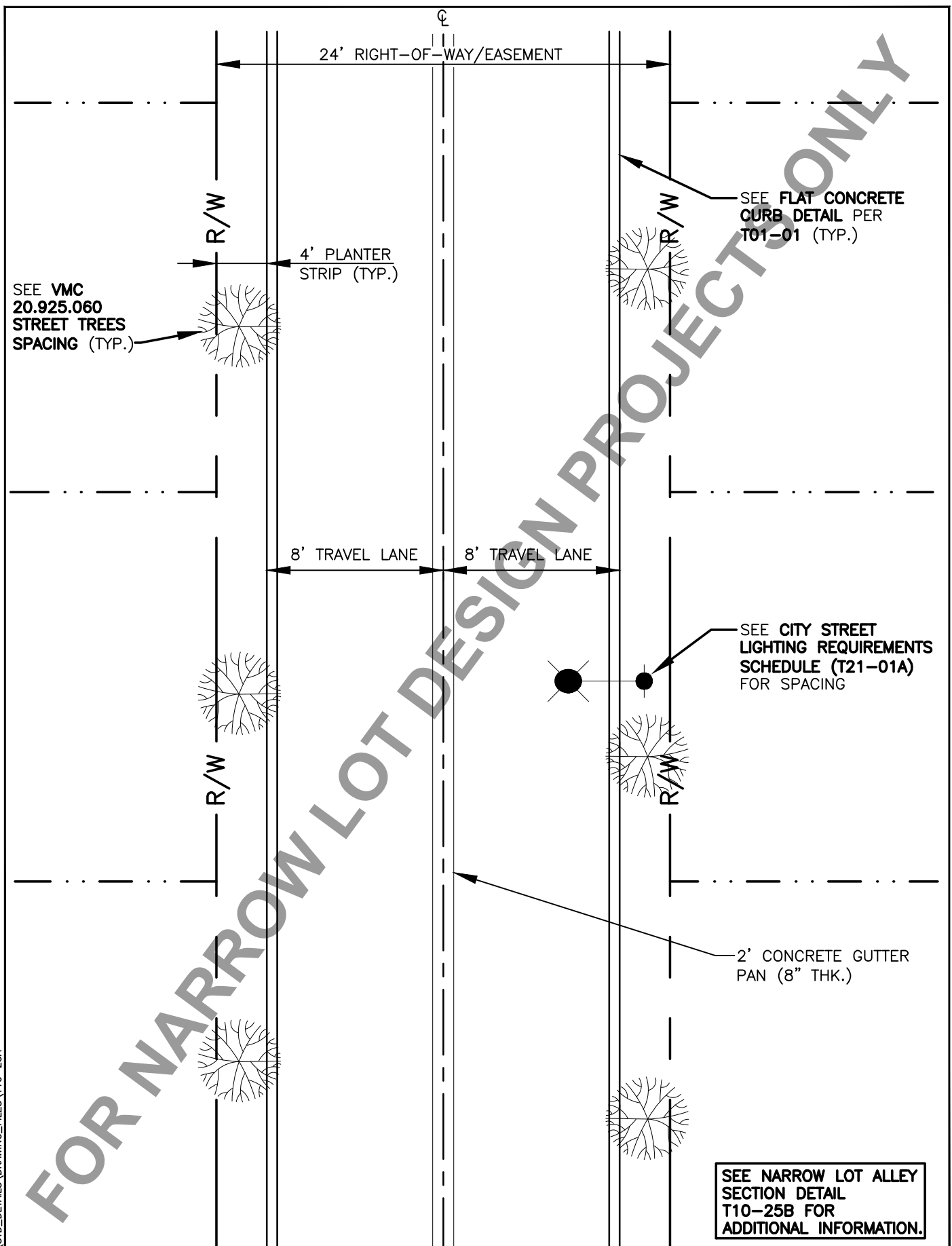


| AASHTO SOIL TYPE | ASPHALT THICKNESS    | BASE ROCK THICKNESS |
|------------------|----------------------|---------------------|
| A-1 TO A-5       | 0.40'                | 0.75'               |
| A-6              | 0.40'                | 0.85'               |
| A-7              | 0.45'                | 1.25'               |
| OTHER            | NO SECTION ESTIMATED |                     |

**NOTES:**

1. WIDER SIDEWALKS MAY BE REQUIRED UNDER SPECIAL CIRCUMSTANCES.
2. PARKING/BULB OUT RESTRICTED TO ONE SIDE ONLY.
3. SEE **STREET TERMINATION DETAIL T10-01** FOR ADDITIONAL CUL-DE-SAC REQUIREMENTS.
4. SEE **NARROW LOT STREET PLAN DETAIL T10-24A** FOR ADDITIONAL INFORMATION.
5. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.

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| REV NO.                          | DATE | BY  | APPR | PUBLIC WORKS – STREETS<br>AND TRANSPORTATION |  |
|----------------------------------|------|-----|------|----------------------------------------------|--|
| 1                                | 2/07 | RAW | MHA  |                                              |  |
| 2                                | 8/08 | RAW | MHA  |                                              |  |
| 3                                | 7/14 | RAW | MHA  |                                              |  |
| 4                                | 9/21 | RAW | MHA  |                                              |  |
| APPROVED BY: <i>M.H. Pedraza</i> |      |     |      | ENGINEER MANAGER                             |  |
| APPROVED DATE: 9/1/2021          |      |     |      |                                              |  |



|                                 |  |                         |
|---------------------------------|--|-------------------------|
| NARROW LOT ALLEY<br>PLAN DETAIL |  | STANDARD PLAN<br>NUMBER |
|                                 |  | T10-25A                 |

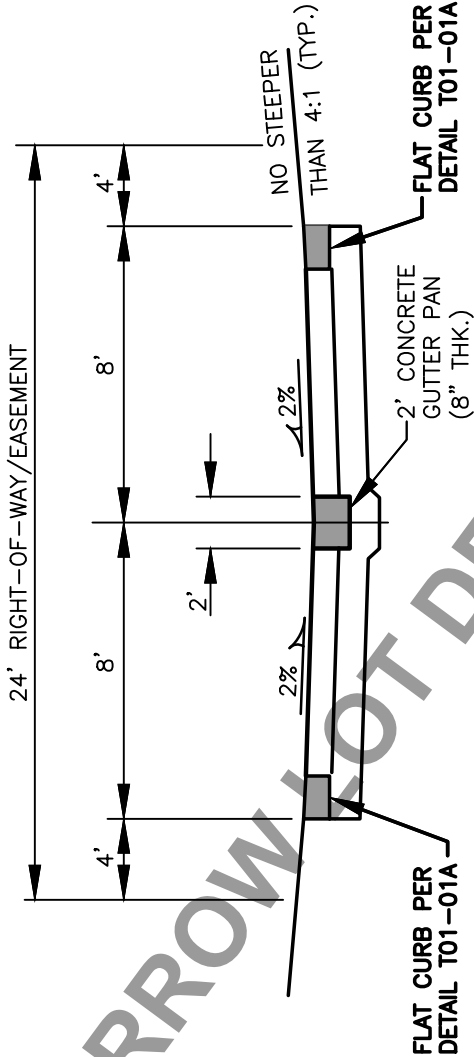
| REV NO. | DATE | BY  | APPR | PUBLIC WORKS - STREETS<br>AND TRANSPORTATION |
|---------|------|-----|------|----------------------------------------------|
| 1       | 8/08 | RAW | MHA  |                                              |
| 2       | 7/14 | RAW | MHA  |                                              |
| 3       | 3/17 | RAW | MHA  |                                              |
| 4       | 7/19 | RAW | MHA  |                                              |
| 5       | 2/21 | OIS | MHA  |                                              |
| 6       | 9/21 | RAW | MHA  |                                              |

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NARROW LOT ALLEY  
SECTION

STANDARD PLAN  
NUMBER  
T10-25B



| AASHTO<br>SOIL TYPE | ASPHALT<br>THICKNESS | BASE ROCK<br>THICKNESS |
|---------------------|----------------------|------------------------|
| A-1 TO A-5          | 0.40'                | 0.75'                  |
| A-6                 | 0.40'                | 0.85'                  |
| A-7                 | 0.45'                | 1.25'                  |
| OTHER               | NO SECTION ESTIMATED |                        |

**NOTES:**

1. ADDITIONAL RIGHT-OF-WAY MAY BE REQUIRED AT CURVES AND CONNECTIONS TO STREETS.
2. SEE **NARROW LOT ALLEY PLAN DETAIL T10-25A.**
3. SEE STANDARD PLAN T10-00 FOR GENERAL NOTES.