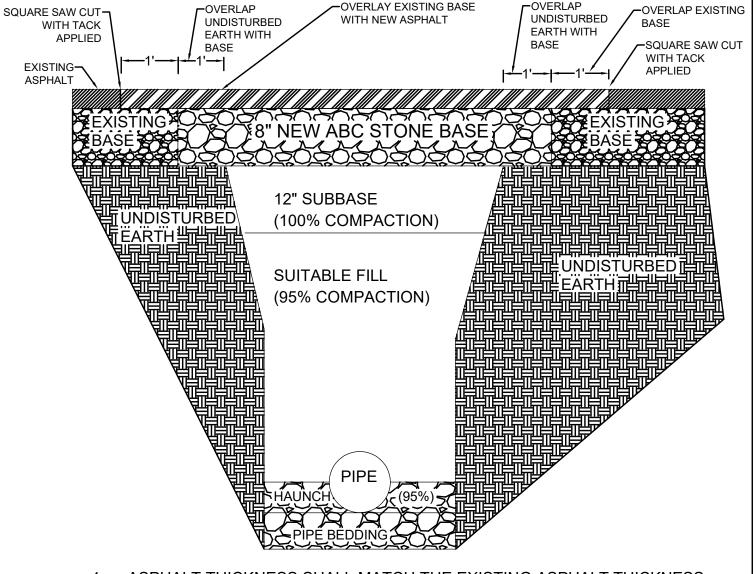


## **Standard Details**

**Public Services Department** 

January 2023



- 1. ASPHALT THICKNESS SHALL MATCH THE EXISTING ASPHALT THICKNESS OR BE 2" NC DOT S9.5B ASPHALT WHICHEVER IS GREATER.
- 2. ALL PAVEMENT CUTS SHALL BE REPAIRED WITHIN 3 DAYS FROM THE DATE THAT THE ASPHALT IS CUT FOR THE REPAIR.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING COMPACTION REQUIREMENTS BY A LICENSED GEO-TECHNICAL FIRM.
- 4. ALL PAVEMENT PATCHES SHALL PROVIDE A UNIFORM AND SMOOTH DRIVING SURFACE.
- 5. SUITABLE MATERIAL SHALL BE FREE FROM HEAVY CLAYS, GUMBO, DEBRIS, ORGANICS, AND LITTLE TO NO EXCESSIVE MOISTURE.
- 6. SUITABLE FILL SHALL BE INSTALLED IN 6" 8" LIFTS COMPACTED BY A MECHANIZED TAMPER.

SECTION: STREETS

DATE: 2021

DRAWN BY: JWP

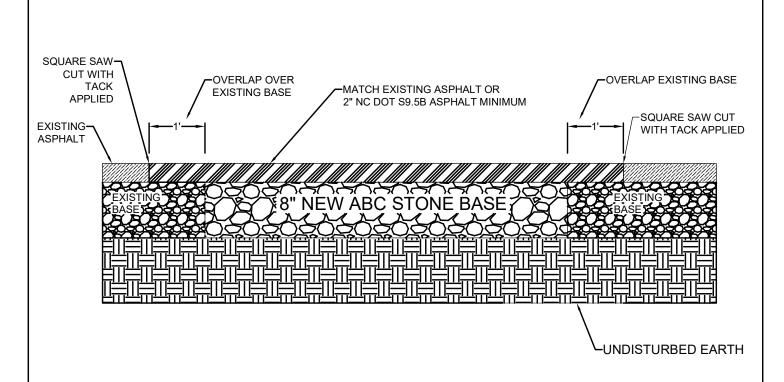
CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

PAVEMENT REPAIR UTILITY CUT

PUBLIC SERVICES DEPARTMENT





#### NOTES:

- 1. ASPHALT THICKNESS SHALL MATCH THE EXISTING ASPHALT THICKNESS OR BE 2" NC DOT S9.5B ASPHALT WHICHEVER IS GREATER.
- 2. ALL PAVEMENT CUTS SHALL BE REPAIRED WITHIN 3 DAYS FROM THE DATE THAT THE ASPHALT IS CUT FOR THE REPAIR.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING COMPACTION REQUIREMENTS BY A LICENSED GEO-TECHNICAL FIRM.
- 4. ALL PAVEMENT PATCHES SHALL PROVIDE A UNIFORM AND SMOOTH DRIVING SURFACE.
- 5. THE CONTRACTOR SHALL REMOVE ANY UNSUITABLE MATERIAL FROM THE PATCH AREA AS DIRECTED BY THE TOWN ENGINEER AND REPLACE WITH A SUITABLE MATERIAL.
- 6. SUITABLE MATERIAL SHALL BE FREE FROM HEAVY CLAYS, GUMBO, DEBRIS, ORGANICS, AND LITTLE TO NO EXCESSIVE MOISTURE.
- 7. SUITABLE FILL SHALL BE INSTALLED IN 6" 8" LIFTS COMPACTED BY A MECHANIZED TAMPER.

DATE: 2021

DRAWN BY: JWP

CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

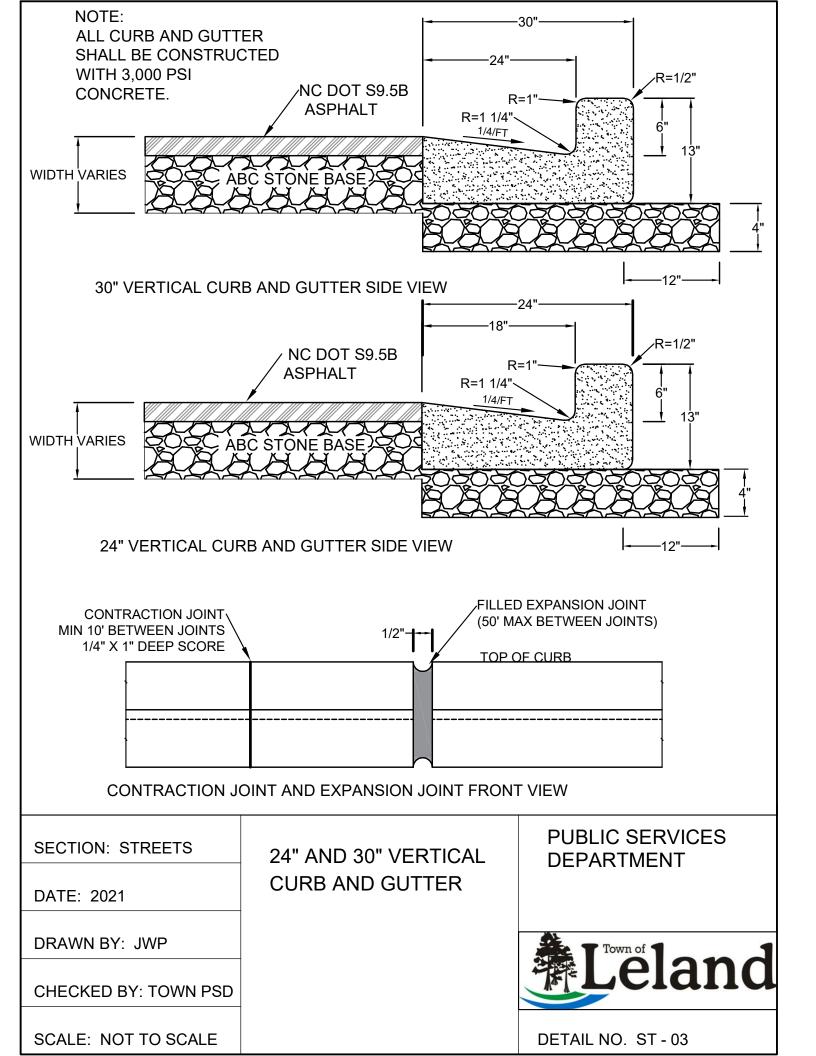
PAVEMENT REPAIR FULL DEPTH PATCH

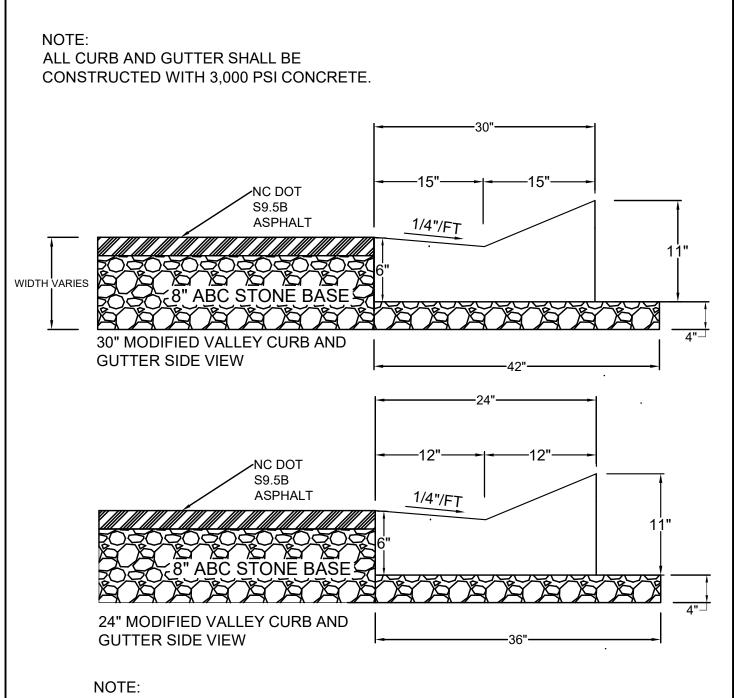
PUBLIC SERVICES DEPARTMENT

PUBLIC SERVICES DEPARTMENT

PUBLIC SERVICES DEPARTMENT

DETAIL NO. ST - 02





 FOR CONTRACTION AND EXPANSION JOINT REQUIREMENTS, PLEASE REFERENCE STANDARD DETAIL ST - 03.

DATE: 2021

DRAWN BY: JWP

CHECKED BY: TOWN PSD

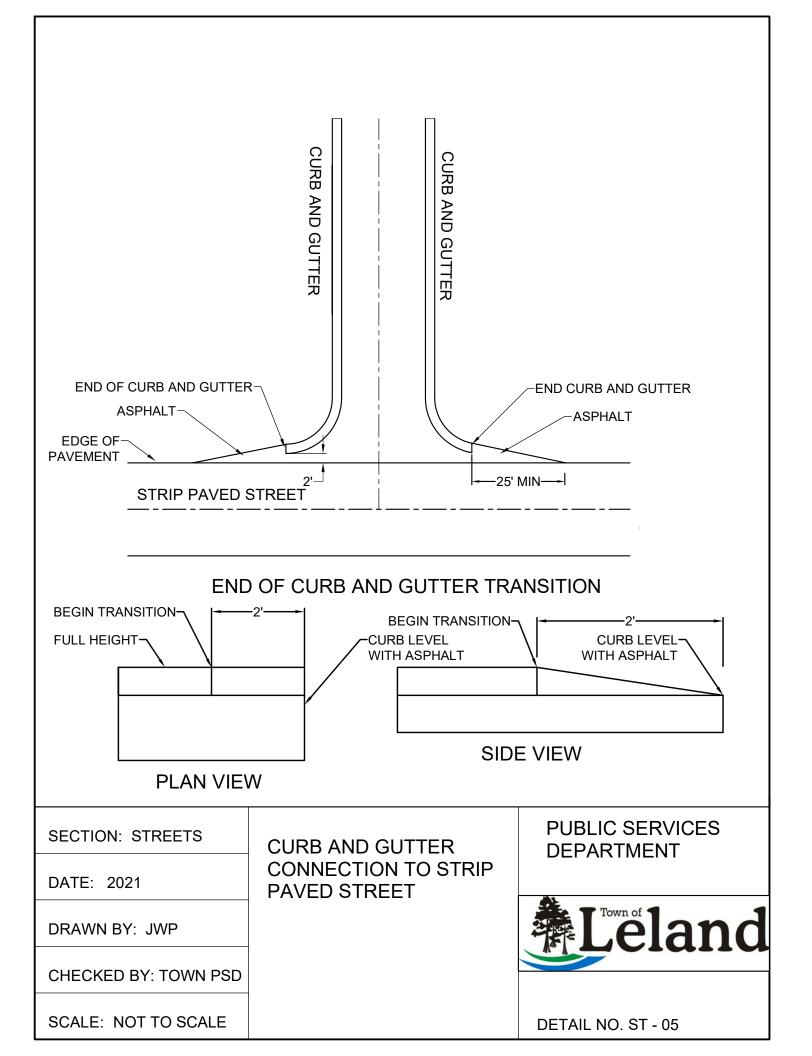
24" AND 30" MODIFIED VALLEY (ROLL OVER) CURB AND GUTTER

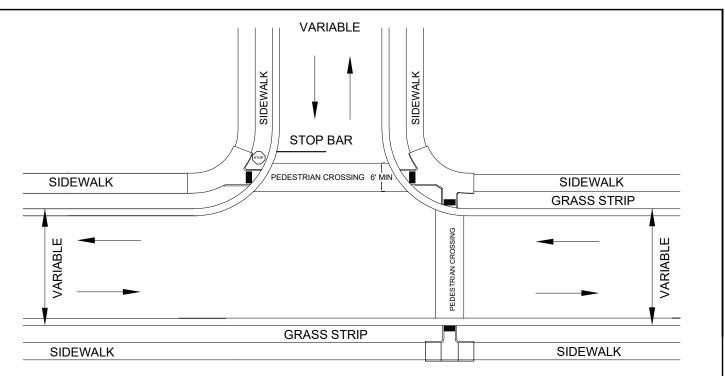
PUBLIC SERVICES DEPARTMENT

PUBLIC SERVICES DEPARTMENT

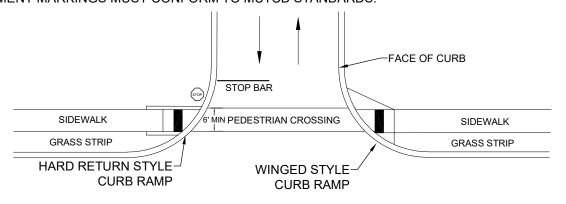
PUBLIC SERVICES DEPARTMENT

DETAIL NO. ST - 04





DETAIL SHOWING TYPICAL LOCATION OF SIDEWALK ACCESS RAMPS
PEDESTRIAN CROSSWALKS, STOP SIGN, AND STOP BARS FOR "T" TYPE INTERSECTION.
STOP BAR MUST BE IN FRONT OF CROSSWALK.
SIDEWALK ON BOTH SIDES OF THE THRU STREET.
ALL PAVEMENT MARKINGS MUST CONFORM TO MUTCD STANDARDS.



DETAIL SHOWING TYPICAL LOCATION OF SIDEWALK ACCESS RAMPS
PEDESTRIAN CROSSWALKS, STOP SIGN, AND STOP BARS FOR "T" TYPE INTERSECTION.
SIDEWALK ON ONE SIDE OF THE THRU STREET.
STOP BAR SHALL BE IN FRONT OF CROSSWALK.

SECTION: STREETS

DATE: 2021

CURB RAMPS AT "T" INTERSECTIONS

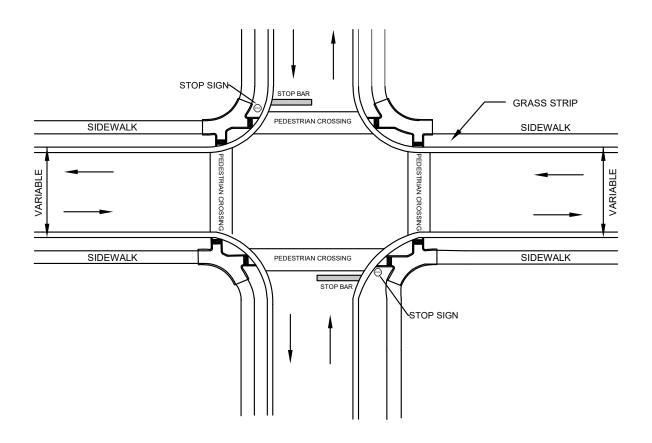
CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

PUBLIC SERVICES DEPARTMENT

PUBLIC SERVICES DEPARTMENT

DETAIL NO. ST - 06

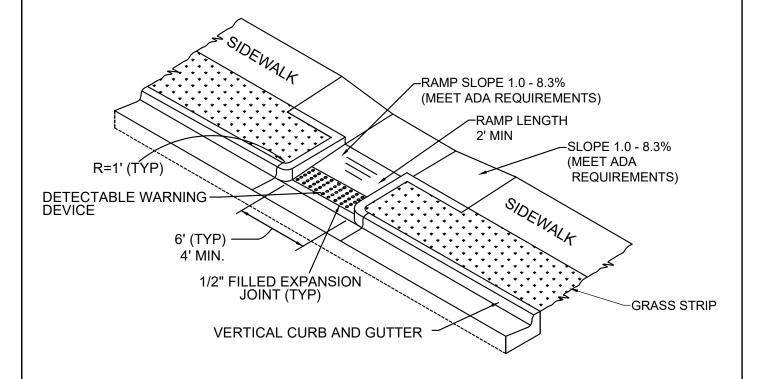


LOCATION OF CURB RAMP, PEDESTRIAN CROSSWALKS, AND STOP BARS

## NOTES:

- 1. CURB RAMPS AT MARKED CROSSWALKS MUST BE ENTIRELY WITHIN THE CROSSWALK.
- RAMPS MUST MEET CURRENT ADA ACCESSIBILITY STANDARDS.
- 3. STOP BARS MUST BE INSTALLED PER NC DOT STANDARDS.
- 4. STOP BARS MUST BE INSTALLED IN FRONT OF CROSSWALK.
- 5. ALL PAVEMENT MARKINGS MUST MEET MUTCD STANDARDS.

SECTION: STREETS	CURB RAMP LOCATIONS	PUBLIC SERVICES DEPARTMENT
DATE: 2021	AT INTERSECTION WITH TWO RESIDENTIAL	Town of
DRAWN BY: JWP	STREETS	Leland
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST - 07



### NOTES:

- 1. THE CENTER PORTION OF THE CURB RAMP SHALL MATCH THE WIDTH OF THE SIDEWALK.
- THE CENTER PORTION OF THE CURB RAMP SHALL BE AT LEAST 48" WIDE.
- 3. MAINTAIN POSITIVE STORMWATER FLOW IN THE FLOW LINE OF THE GUTTER.
- 4. RAMP LENGTH SHALL BE 2' MIN.
- 5. FILLED EXPANSION JOINTS ARE REQUIRED BETWEEN NEW CONCRETE AND EXISTING CONCRETE AND WHERE CONCRETE CHANGES THE ANGLE OF CONSTRUCTION.
- RAMPS MUST MEET CURRENT ADA ACCESSIBILITY STANDARDS.

SECTION: STREETS

**DATE: 2021** 

DRAWN BY: JWP

CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

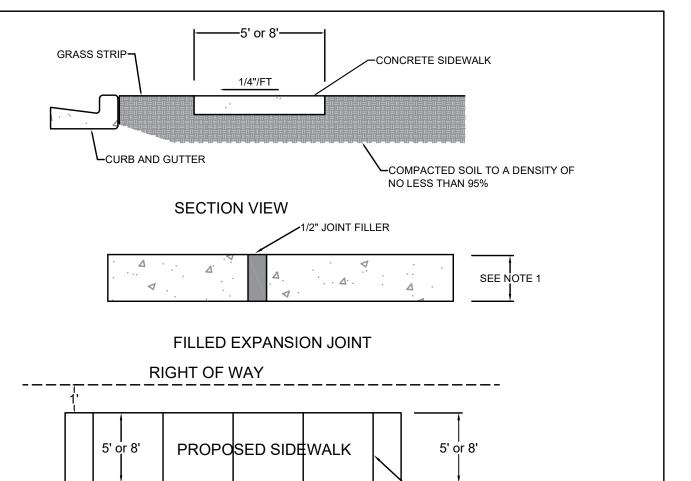
TYPICAL CURB RAMP ON STREET WITH VERTICAL CURB AND GUTTER (HARD RETURN STYLE) PUBLIC SERVICES DEPARTMENT



## **CURB RAMP NOTES**

- 1. ALL CURB RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) LATEST EDITION.
- 2. ALL CONCRETE SHALL BE CLASS A WITH A 28 DAY BREAK OF AT LEAST 3,000 PSI.
- 3. THE WALKING SURFACE OF THE RAMP SHALL HAVE A SLIP RESISTANT FINISH.
- 4. THE SLOPE OF THE CURB RAMP SHALL NOT EXCEED A 12:1 RATIO.
- 5. THE DETECTABLE WARNING DEVICE OF THE CURB RAMP SHALL BE RED CONTRAST AND MUST BE IN COMPLIANCE WITH ADA REQUIREMENTS.
- 6. A FULL DEPTH EXPANSION JOINT SHALL BE INSTALLED WHERE THE CONCRETE CURB RAMP JOINS THE CURB AND GUTTER AND THE CONCRETE CURB RAMP ABUTS EXISTING CONCRETE SIDEWALK.
- 7. ALL CURB RAMPS SHALL BE THE SAME WIDTH AS THE ADJOINING SIDEWALK OR 48" WIDE IF THE SIDEWALK IS LESS THAN 48" WIDE.
- 8. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4' X4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL COMPLETELY WITHIN THE PEDESTRIAN CROSSWALK LINES.

SECTION: STREETS	CURB RAMP NOTES	PUBLIC SERVICES DEPARTMENT
DATE: 2021		Town of
DRAWN BY: JWP		<b>雅Leland</b>
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST - 12



### **PLAN VIEW**

**CURB AND GUTTER** 

**GRASS STRIP** 

### NOTES:

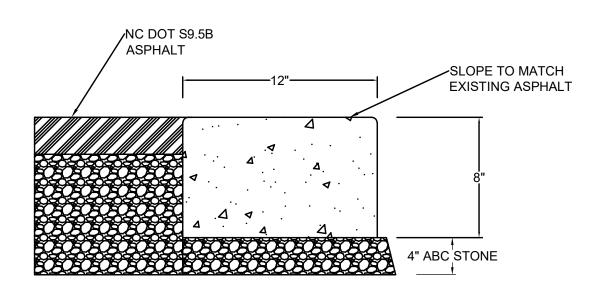
- 1. SIDEWALK DEPTH SHALL BE 4" EXCEPT AT DRIVEWAYS WHERE THE DEPTH SHALL BE 6".
- 2. THE DISTANCE BETWEEN FILLED EXPANSION JOINTS SHALL BE 50' MAX.

SAW CUT JOINTS 1/4" WIDE

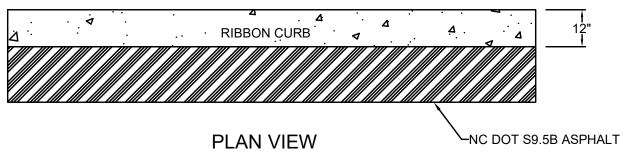
AND 1" DEEP (EVERY 5')

- 3. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH 3,000 PSI CONCRETE.
- 4. ALL MANHOLES, WATER VALVES AND METER BOXES MUST BE LOCATED OUTSIDE OF THE SIDEWALK AREA.
- ALL SIDEWALK REPAIRS SHOULD BE FROM CONTRACTION JOINT TO CONTRACTION JOINT.
- 6. THE SIDEWALK WIDTH SHALL BE DETERMINED BY TOWN STAFF.

SECTION: STREETS	5' AND 8' WIDE CONCRETE	PUBLIC SERVICES DEPARTMENT
DATE: 2021	SIDEWALK	Town of
DRAWN BY: JWP		#Leland
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST - 13



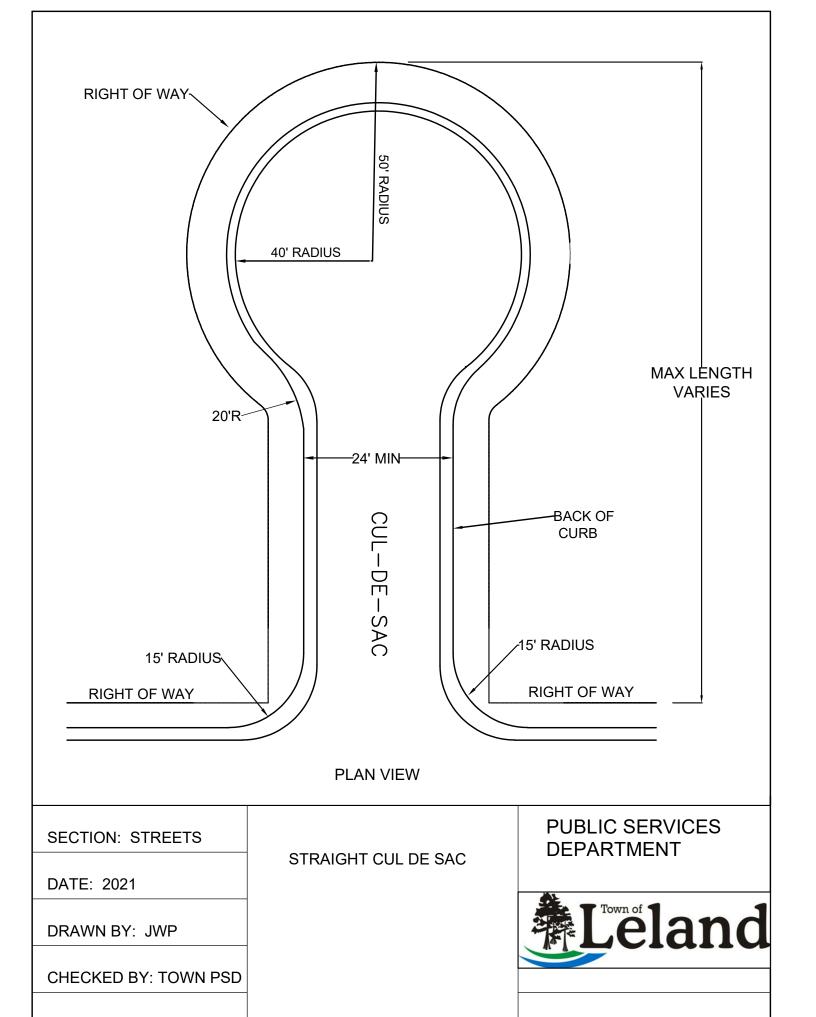
## SIDE VIEW



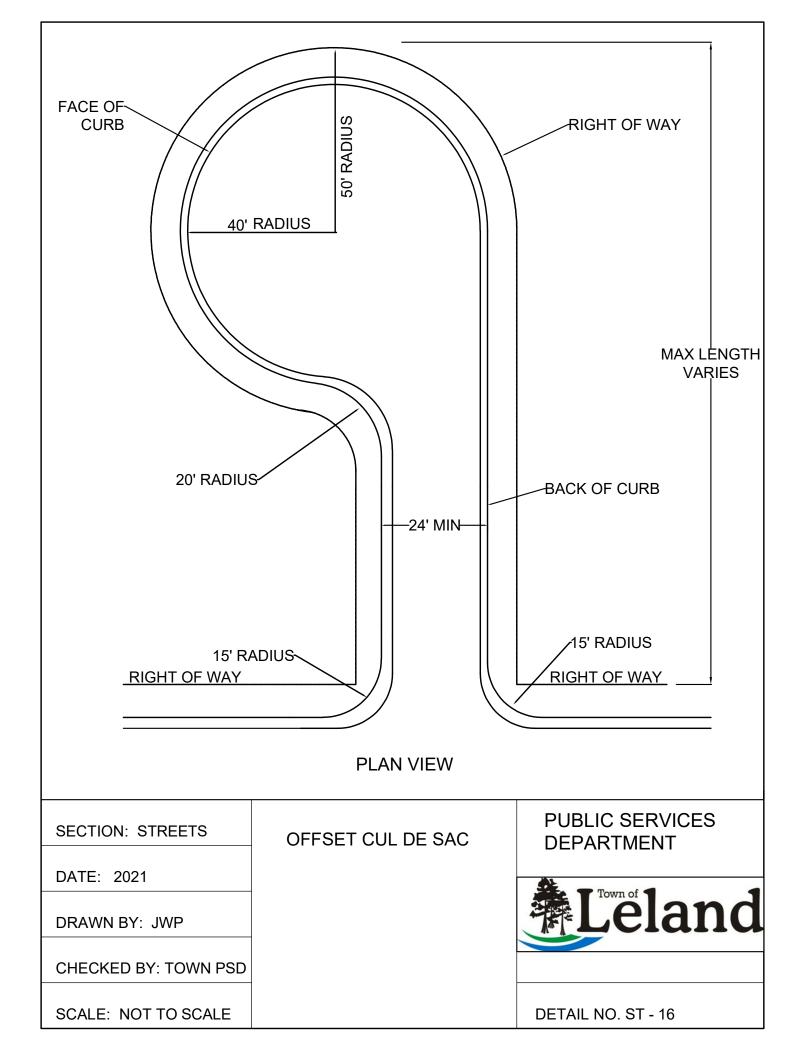
## **NOTES**

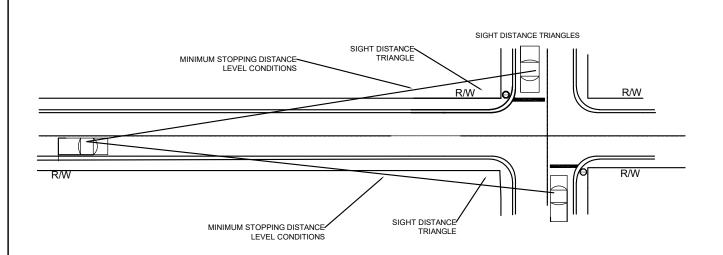
- 1. CONCRETE SHALL BE 3,000 PSI.
- 2. FILLED EXPANSION JOINTS SHALL BE NO MORE THAN 50' APART.
- 3. SAW CUT CONTRACTION JOINTS SHALL BE NO MORE THAN 5' APART.

SECTION: STREETS	CONCRETE RIBBON	PUBLIC SERVICES DEPARTMENT
DATE: 2021	CURB	
DRAWN BY: JWP		Leland
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST - 14



SCALE: NOT TO SCALE DETAIL NO. ST - 15





### NOTES:

- MINIMUM STOPPING DISTANCES BASED UPON SPEED AND OTHER FACTORS
- 2. NO VEGETATION OR MAN MADE OBJECTS HIGHER THAN THREE FEET ARE ALLOWED WITHIN THE SIGHT TRIANGLE.
- 3. THE ROADWAY DESIGNER IS RESPONSIBLE FOR CALCULATING THE MINIMUM STOPPING DISTANCES AND SIGHT DISTANCES BASED UPON THE ROADWAY DESIGN AND FIELD CONDITIONS.
- 4. THE DIMENSIONS OF THE SIGHT TRIANGLE WILL VARY WITH THE STOPPING DISTANCE.

## MINIMUM STOPPING DISTANCE LEVEL CONDITIONS FOR CARS

#### DESIGN SPEED MINIMUM STOPPING DISTANCE (FT)

1	L5	80
2	20	11!
2	25	15
3	30	200
3	35	250
4	10	30
4	15	360
5	50	425
		401

SOURCE: AASHTO GREEN BOOK, LATEST EDITION

SECTION: STREETS

DATE: 2021

DRAWN BY: JWP

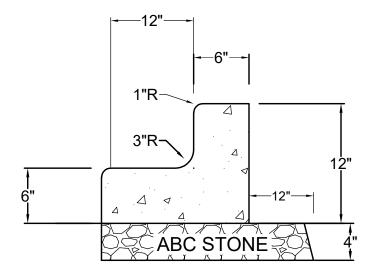
CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

STOPPING DISTANCES FOR STREET INTERSECTIONS

# PUBLIC SERVICES DEPARTMENT

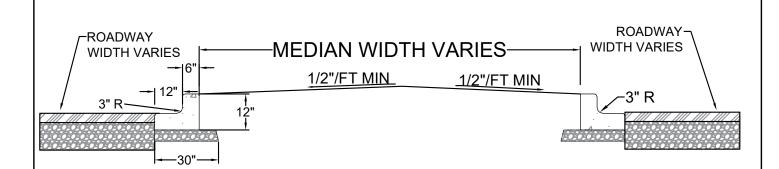




## **NOTES**

- 1. CONCRETE SHALL BE 3,000 PSI.
- 2. FILLED EXPANSION JOINTS SHALL BE NO MORE THAN 50' APART.
- 3. SAW CUT CONTRACTION JOINTS SHALL BE NO MORE THAN 5' APART.

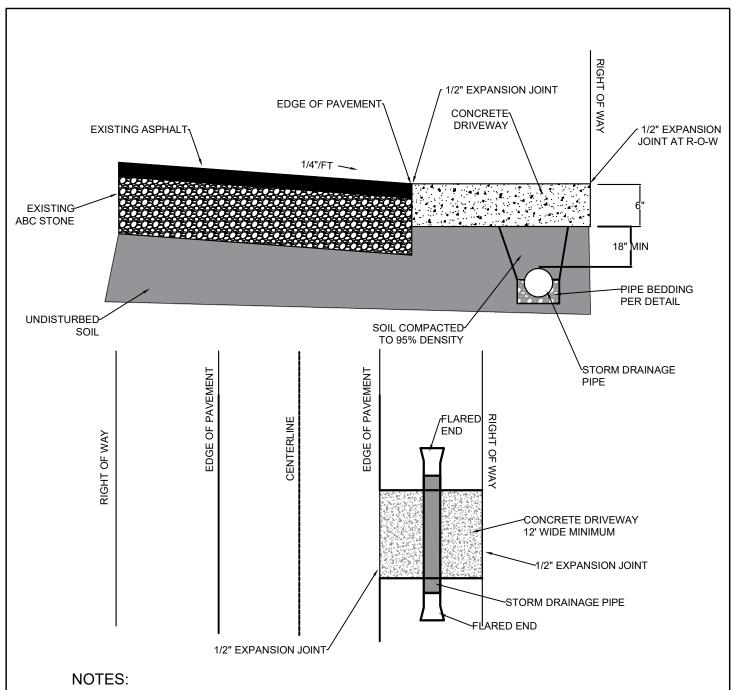
SECTION: STREETS	CONCRETE MEDIAN	PUBLIC SERVICES DEPARTMENT
DATE: 2021	CURB	Town of
DRAWN BY: JWP		Leland
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST - 18



#### NOTES:

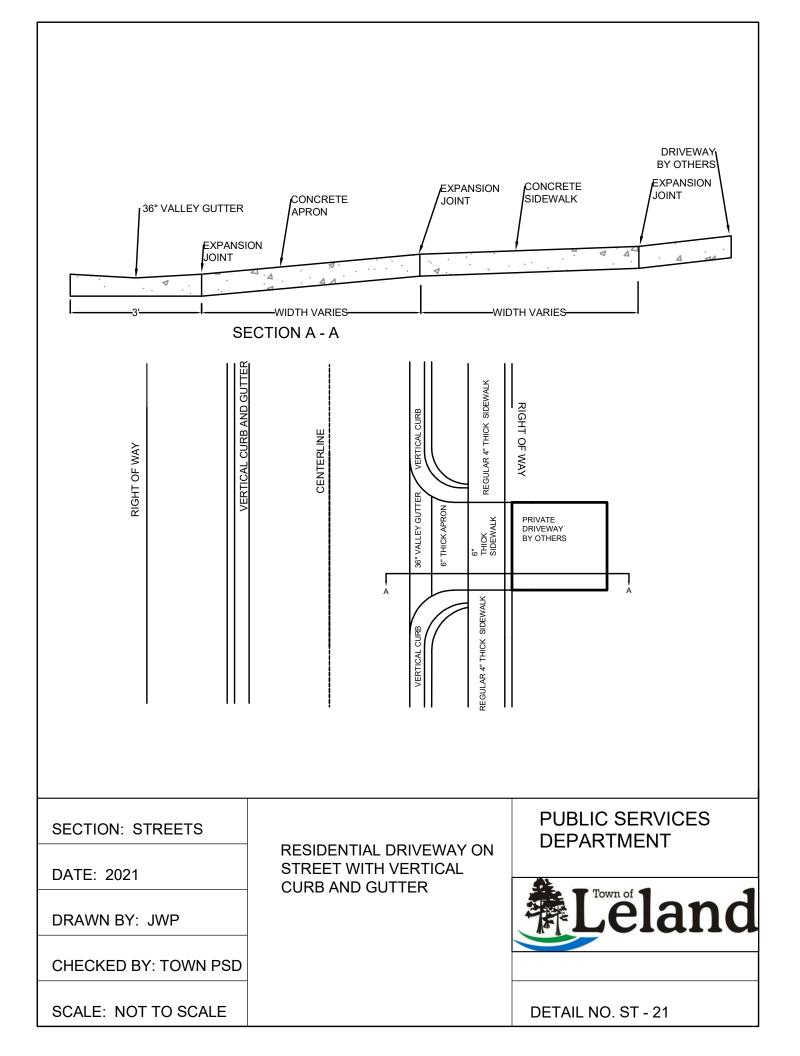
- 1. ALL MEDIANS LESS THAN 3 FT WIDE SHALL BE 6" CONCRETE
- 2. MEDIANS 3 FT TO 6 FT WIDE SHOULD BE GRASS.
- 3. MEDIANS GREATER THAN 6 FT WIDE SHALL BE LANDSCAPED. THE LANDSCAPE PLAN MUST BE APPROVED BY TOWN STAFF.
- 4. THE AREA BETWEEN THE MEDIAN CURBS SHALL BE EXCAVATED A MINIMUM DEPTH OF 6" BELOW THE EXISTING GRADE AND APPROVED TOPSOIL USED FOR GRASSED AND LANDSCAPED MEDIANS.
- 5. IRRIGATION SYSTEMS IN THE MEDIAN MUST BE APPROVED BY TOWN STAFF.
- 6. THE MEDIAN SHALL BE DESIGNED FOR POSITIVE DRAINAGE TO THE CURB.

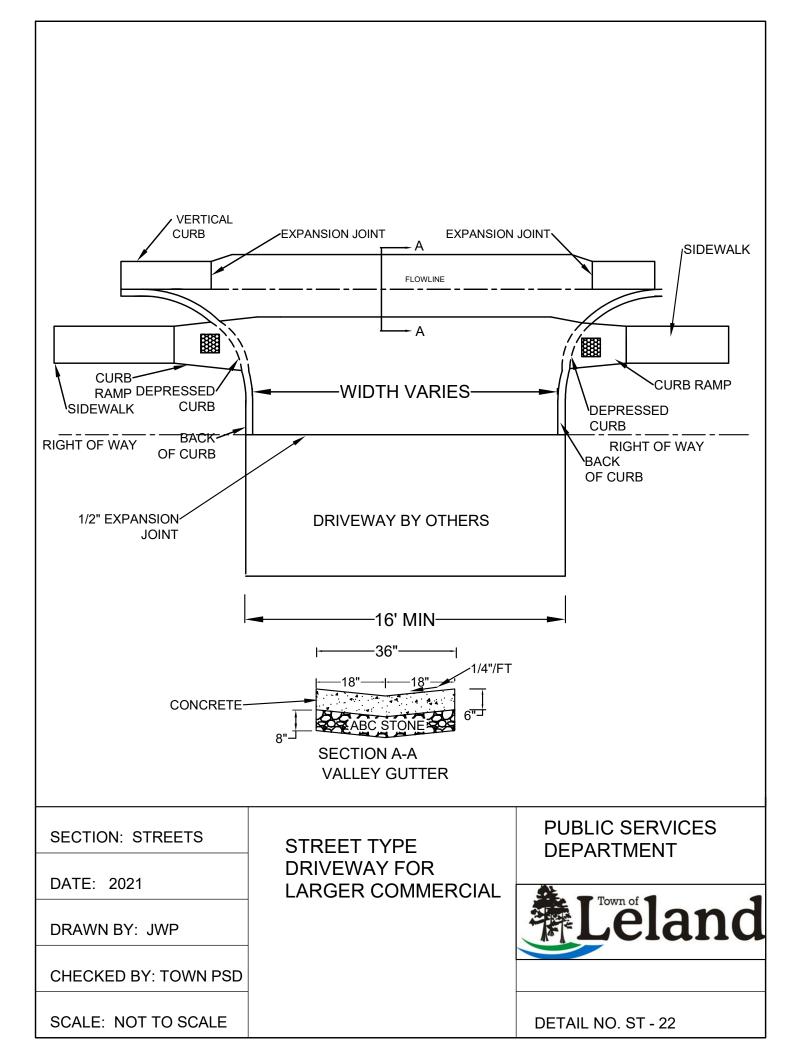
SECTION: STREETS	ROADWAY MEDIAN	PUBLIC SERVICES DEPARTMENT
DATE: 2021		<b>A</b> L
DRAWN BY: JWP		#Leland
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST -19

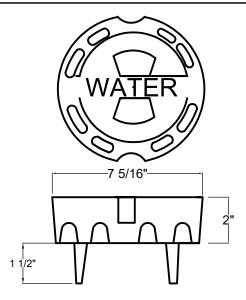


- 1. THE STORM DRAINAGE PIPE SHALL BE BASED UPON THE UPSTREAM DRAINAGE BASIN SIZE.
- 2. THE STORM DRAINAGE PIPE SHALL BE CENTERED ON THE EXISTING DRAINAGE SWALE AND MATCH THE EXISTING FLOW LINE.

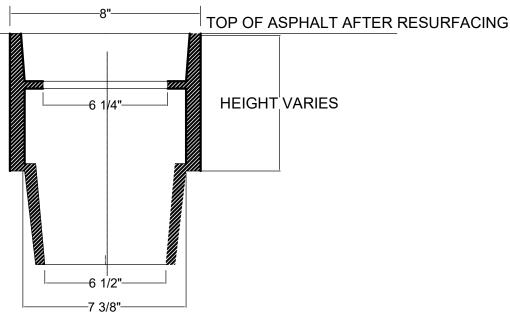
SECTION: STREETS	DRIVEWAY ON STRIP PAVED ROAD	PUBLIC SERVICES DEPARTMENT
DATE: 2021		₩.
DRAWN BY: JWP		#Leland
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST - 20







## **VALVE BOX LID**



## **VALVE BOX RISER**

### NOTES:

- 1. CONTACT UTILITY PROVIDER BEFORE COMMENCING ANY WORK.
- REMOVE EXISTING VALVE BOX LID.
- 3. INSERT VALVE BOX RISER WITH CORRECT HEIGHT DIMENSION TO ADJUST TOP TO FINISHED GRADE AND REPLACE VALVE BOX LID.

**SECTION: STREETS** 

DATE: 2021

DRAWN BY: JWP

CHECKED BY: TOWN PSD

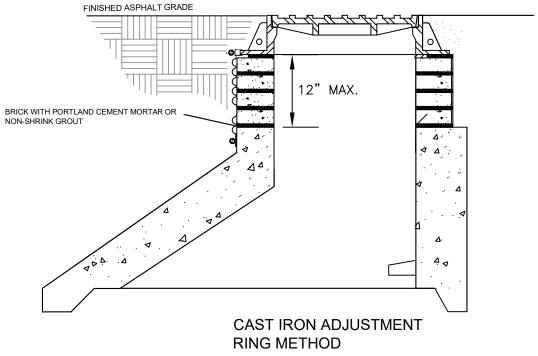
SCALE: NOT TO SCALE

ADJUST WATER VALVE BOX TO GRADE

PUBLIC SERVICES DEPARTMENT



## **CEMENT BRICK METHOD**



MANHOLE COVER

CAST IRON MANHOLE ADJUSTMENT RING HEIGHT VARIES

NOTE:

 REMOVE INFILTRATION PAN PRIOR TO ADJUSTING CASTING TO GRADE AND REINSTALL INFILTRATION PAN AFTER CASTING HAS BEEN ADJUSTED TO GRADE.

2. CONTACT UTILITY PROVIDER BEFORE COMMENCING ANY WORK.

**SECTION: STREETS** 

DATE: 2021

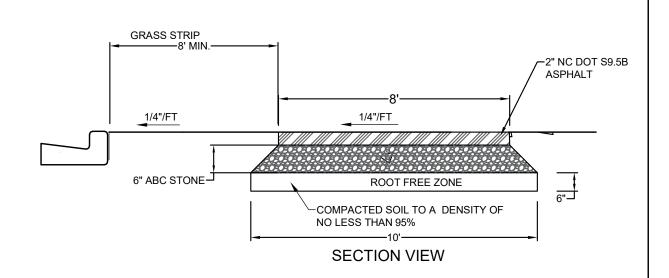
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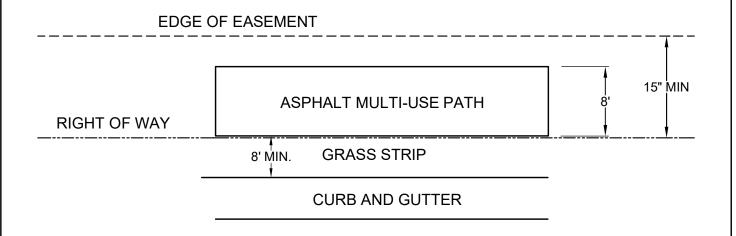
CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

STANDARD MANHOLE CASTING ADJUSTMENT TO GRADE PUBLIC SERVICES DEPARTMENT





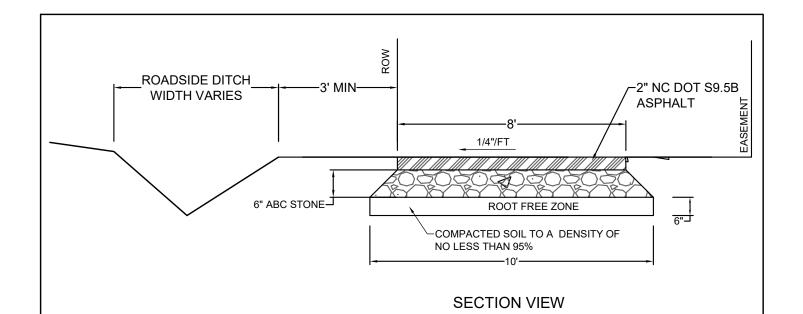


## **PLAN VIEW**

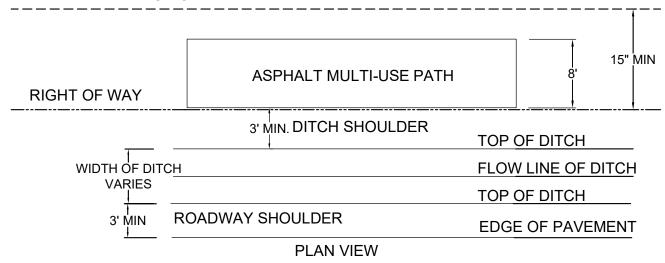
## **NOTES**

1. THE ROOT FREE ZONE SHALL BE FREE OF ALL ROOTS > 1/2".

SECTION: STREETS	8' MULTI-USE PATH ON	PUBLIC SERVICES DEPARTMENT
DATE: 2021	STREET WITH CURB AND GUTTER	**
DRAWN BY: JWP	GOTTEN	Leland
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST - 25



## **EDGE OF EASEMENT**

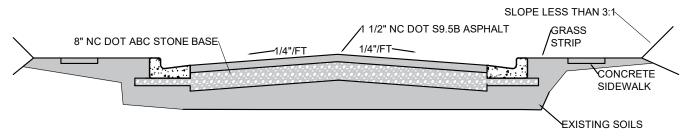


### NOTES:

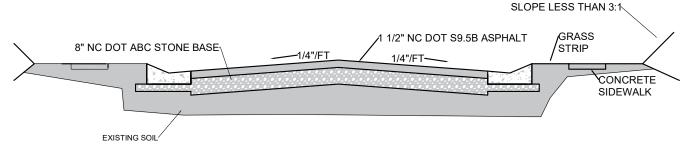
1. THE ROOT FREE ZONE SHALL BE FREE OF ALL ROOTS > 1/2".

SECTION: STREETS	8' MULTI-USE PATH ON STREET WITH DITCH	PUBLIC SERVICES DEPARTMENT
DATE: 2021	SECTION	Town of
DRAWN BY: JWP		<b>#Leland</b>
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST - 26

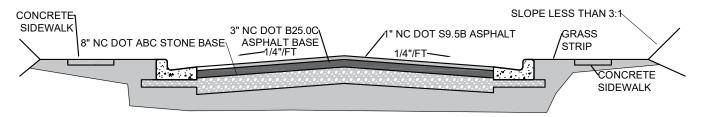
## RESIDENTIAL STREET WITH VERTICAL CURB AND GUTTER



## RESIDENTIAL STREET WITH MODIFIED VALLEY CURB



## COLLECTOR ROAD WITH VERTICAL CURB



### NOTE:

- 1. FOR PAVEMENT WIDTH, RIGHT OF WAY WIDTH, GRASS STRIP WIDTH AND SIDEWALK WIDTH CONSULT WITH THE TOWN ENGINEER AND PLANNING STAFF.
- 2. THE ASPHALT AND BASE DEPTHS SHOWN ARE THE MINIMUM VALUES FOR COLLECTOR AND RESIDENTIAL STREETS. THE ACTUAL ASPHALT AND BASE DEPTHS SHALL BE CALCULATED BASED UPON THE ACTUAL SOIL CONDITIONS AS SHOWN IN THE DESIGN MANUAL.

DATE: 2021

DRAWN BY: JWP

CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

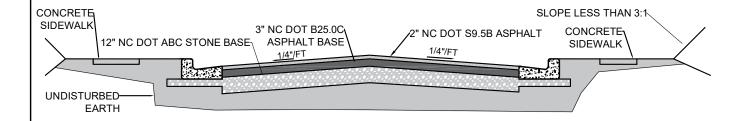
RESIDENTIAL AND COLLECTOR STREET CROSS SECTIONS

PUBLIC SERVICES DEPARTMENT

PUBLIC SERVICES DEPARTMENT

DETAIL NO. ST - 27

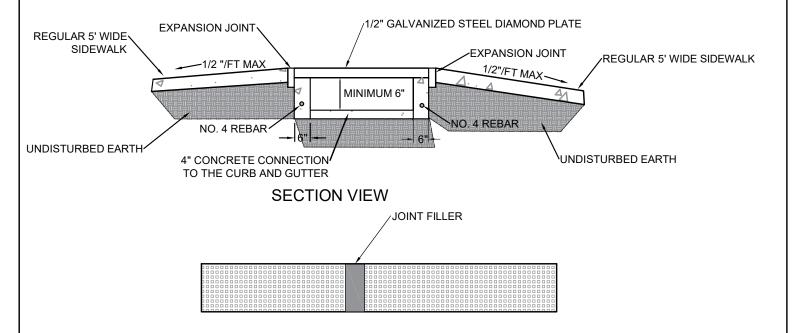
## MAJOR THOROUGHFARE WITH 30" VERTICAL CURB



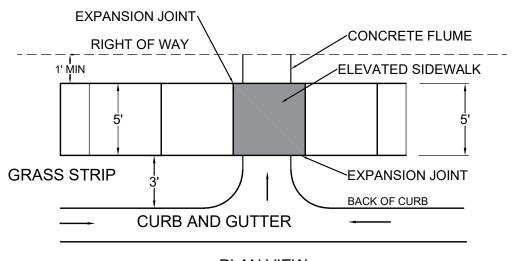
## NOTES:

- 1. FOR PAVEMENT WIDTH, RIGHT OF WAY WIDTH, GREEN SPACE WIDTH AND SIDEWALK WIDTH, CONSULT WITH THE TOWN ENGINEER AND PLANNING STAFF.
- 2. THE ASPHALT AND BASE DEPTHS SHOWN ARE THE MINIMUM VALUES FOR A THOROUGHFARE STREET. THE ACTUAL ASPHALT AND BASE DEPTHS SHALL BE CALCULATED BASED UPON THE ACTUAL SOIL CONDITIONS AS SHOWN IN THE DESIGN MANUAL.

SECTION: STREETS	MAJOR THOROUGHFARE WITH 30" VERTICAL CURB	PUBLIC SERVICES DEPARTMENT
DATE: 2021		Town of
DRAWN BY: JWP		#Leland
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST - 28



### TRAVERSE EXPANSION JOINT

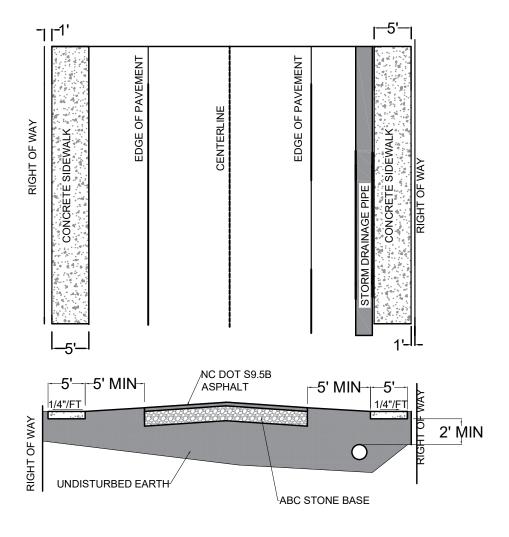


## **PLAN VIEW**

### **NOTES**

- 1. ELEVATED SIDEWALK DIMENSIONS SHOULD BE DETERMINED BY DESIGN ENGINEER TO ENSURE PROPER DRAINAGE. PUBLIC SERVICES TO REVIEW DIMENSIONS PRIOR TO CONSTRUCTION.
- 2. EXPANSION MATERIAL SHALL BE PLACED BETWEEN THE SUPPORTS AND BOTTOM OF SIDEWALK.

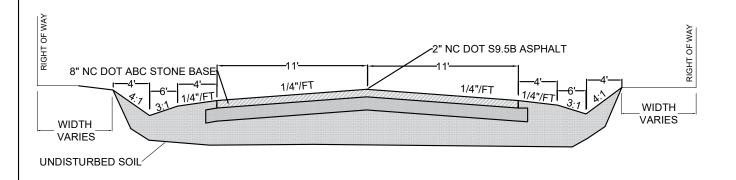
SECTION: STREETS	ELEVATED SIDEWALK	PUBLIC SERVICES DEPARTMENT
DATE: 2023	WITH OPENING FOR DRAINAGE	
DRAWN BY: AMW		
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST - 29



## NOTES:

- 1. SIDEWALK DEPTH SHALL BE 4" EXCEPT AT DRIVEWAYS WHERE THE DEPTH SHALL BE 6".
- 2. THE DISTANCE BETWEEN FILLED EXPANSION JOINTS SHALL BE 50' MAX.
- 3. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH 3,000 PSI CONCRETE.
- 4. ALL MANHOLES, WATER VALVES AND METER BOXES MUST BE LOCATED OUTSIDE OF THE SIDEWALK AREA.
- 5. ALL SIDEWALK REPAIRS SHOULD BE FROM CONTRACTION JOINT TO CONTRACTION JOINT.

SECTION: STREETS		PUBLIC SERVICES DEPARTMENT
DATE: 2021	STRIP PAVED STREET WITH SIDEWALKS ON BOTH	32.7
DRAWN BY: JWP	SIDES OF THE STREET	Leland
CHECKED BY: TOWN PSD		
SCALE: NOT TO SCALE		DETAIL NO. ST - 30

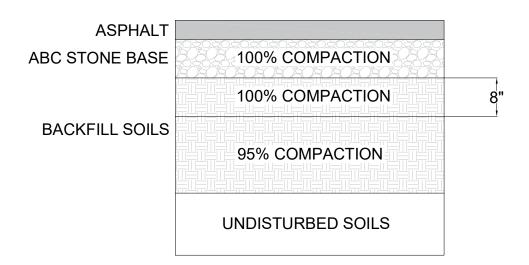


## STRIP PAVED RESIDENTIAL STREET WITH DITCHES

### NOTE:

- 1. FOR PAVEMENT WIDTH, RIGHT OF WAY WIDTH, GREEN SPACE WIDTH AND SIDEWALK WIDTH, REFER TO THE ROADWAY DESIGN MANUAL.
- 2. THE ASPHALT AND BASE DEPTHS SHOWN ARE THE MINIMUM VALUES FOR A RESIDENTIAL STREET. THE ACTUAL ASPHALT AND BASE DEPTHS SHALL BE CALCULATED BASED UPON THE ACTUAL SOIL CONDITIONS AS SHOWN IN THE DESIGN MANUAL.

SECTION: STREETS	STRIP PAVED RESIDENTIAL STREET WITH DITCHES	PUBLIC SERVICES DEPARTMENT		
DATE: 2021	OTREET WITH BITORIES			
DRAWN BY: JWP		#Leland		
CHECKED BY: TOWN PSD				
SCALE: NOT TO SCALE		DETAIL NO. ST - 31		



## NOTE:

SCALE: NOT TO SCALE

1. THE ASPHALT AND BASE DEPTHS SHOULD BE CALCULATED BASED UPON THE ACTUAL SOIL CONDITIONS AS SHOWN IN THE TOWN DESIGN MANUAL.

DETAIL NO. ST - 32

DATE: 2023

DRAWN BY: AMW

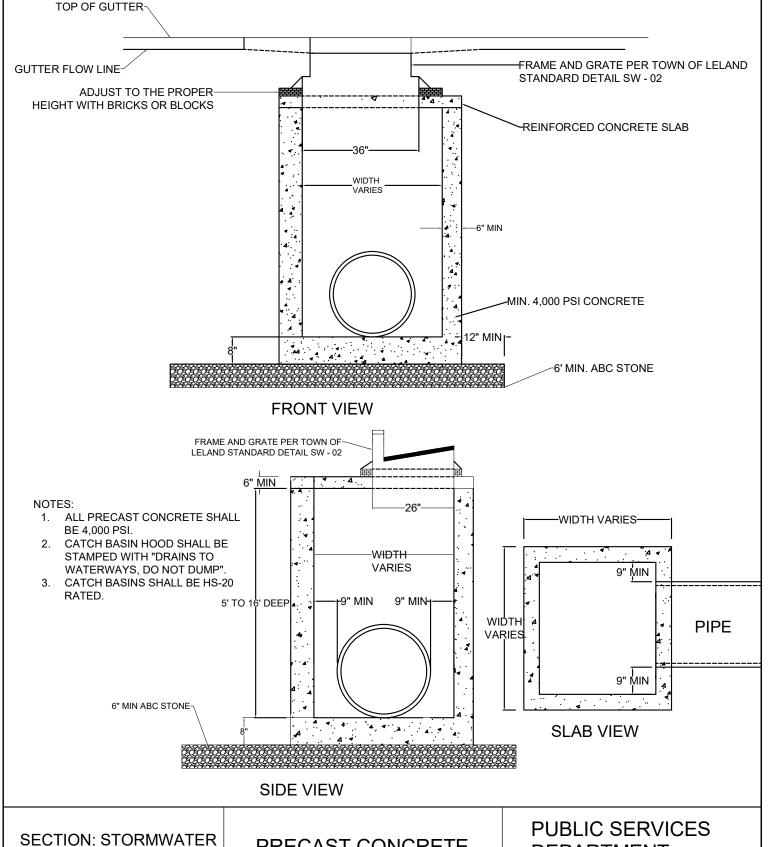
CHECKED BY: TOWN PSD

ASPHALT PAVEMENT COMPACTION DETAIL

PUBLIC SERVICES DEPARTMENT

PUBLIC SERVICES DEPARTMENT

COMPACTION DETAIL



**DATE: 2023** 

DRAWN BY: JWP

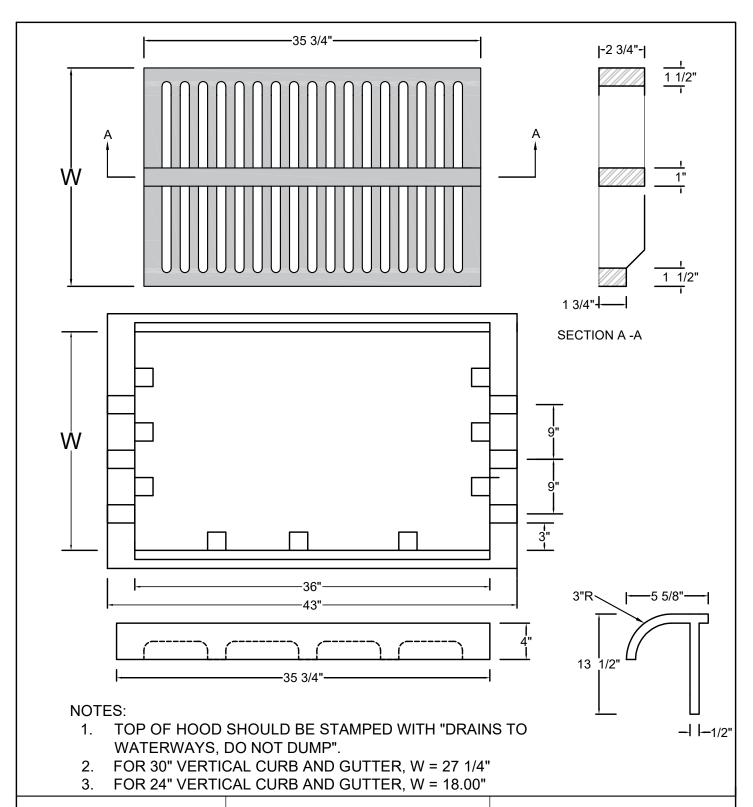
CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

PRECAST CONCRETE **CATCH BASIN** 

**DEPARTMENT** 





**SECTION: STORMWATER** 

DATE: 2021

DRAWN BY: JWP

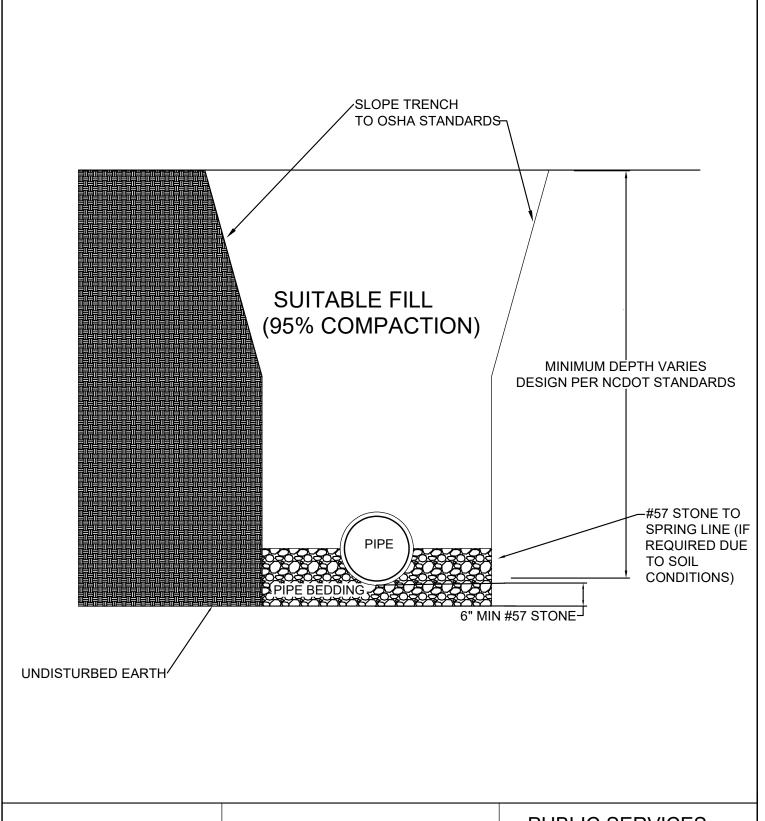
CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

36" CATCH BASIN FRAME, GRATE, AND HOOD FOR 24" AND 30" VERTICAL CURB AND GUTTER

# PUBLIC SERVICES DEPARTMENT





**SECTION: STORMWATER** 

DATE: 2022

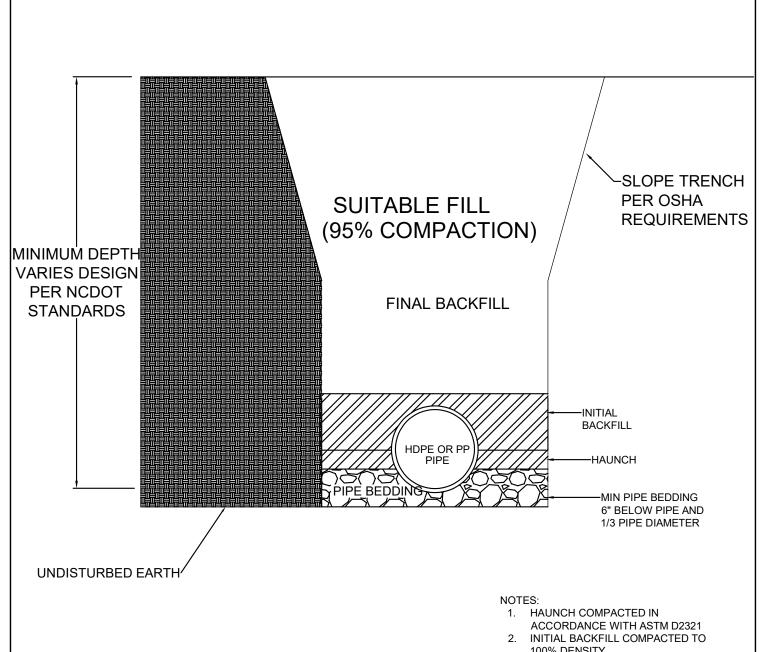
DRAWN BY: JWP

**CHECKED BY: TOWN PSD** 

SCALE: NOT TO SCALE

BEDDING FOR REINFORCED CONCRETE PIPE PUBLIC SERVICES DEPARTMENT





- 100% DENSITY
- 3. INSTALL PER HDPE AND PP PIPE MANUFACTURER'S RECOMMENDATIONS

**SECTION: STORMWATER** 

DATE: 2022

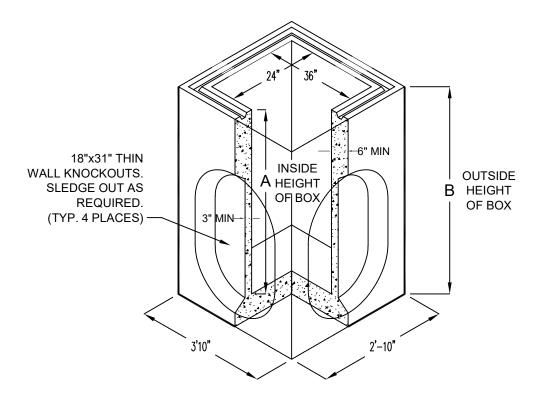
DRAWN BY: JWP

CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

**BEDDING FOR** HDPE AND PP PIPE **PUBLIC SERVICES DEPARTMENT** 





OUTSIDE HEIGHT OF THE BOX "B" SHALL RANGE FROM 3' TO 6' INSIDE HEIGHT OF THE BOX "A" SHALL RANGE FROM 2.5' TO 5.5'

### NOTES:

- 1. USE 4,000 PSI CONCRETE AND PROVIDE FOR HS-20 LOADING.
- PROVIDE LIFT HOLES OR PIN IN ACCORDANCE WITH OSHA STANDARDS.
- 3. SEAL JOINTS WITH FLEXIBLE BUTYL RUBBER BASE CONFORMING TO ASTM M-19B.
- 4. WAFFLE BOX SHALL HAVE A FOUNDATION OF 6" #57 STONE.
- 5. FOR DROP INLET FRAME AND GRATE, REFER TO DETAIL SW 07.

**SECTION: STORMWATER** 

DATE: 2023

DRAWN BY: JWP

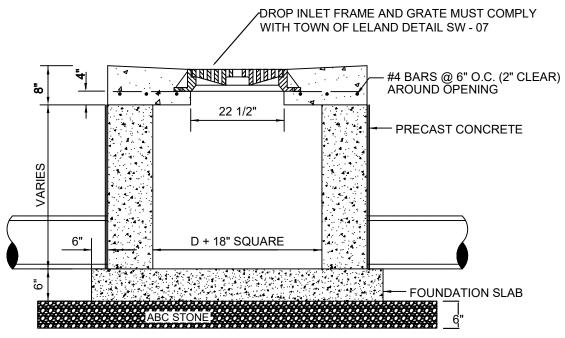
CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

24" X 36" PRECAST CONCRETE WAFFLE DROP INLET BOX WITH 4 KNOCKOUT PANELS

# PUBLIC SERVICES DEPARTMENT





SANDE DE PIPE INSIDE DIAMETER

D = PIPE INSIDE DIAMETER

D = PIPE INSIDE DIAMETER

FLOW LINE D

D + 18" SQ.

#57 STONE

NOTES:

- 1. USE 4,000 PSI CONCRETE AND PROVIDE FOR HS-20 LOADING.
- PROVIDE LIFT HOLES OR PIN IN ACCORDANCE WITH OSHA STANDARDS.
- 3. SEAL JOINTS WITH FLEXIBLE BUTYL RUBBER BASE CONFORMING TO ASTM M-19B.

**SECTION: STREETS** 

**DATE: 2023** 

DRAWN BY: JWP

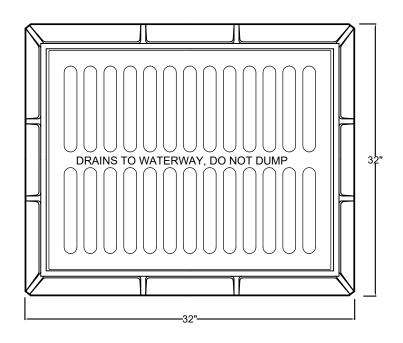
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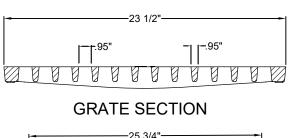
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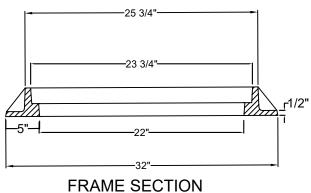
PRECAST CONCRETE DROP INLET BOX WITHOUT KNOCKOUT PANELS

# PUBLIC SERVICES DEPARTMENT









**SECTION: STREETS** 

DATE: 2021

DRAWN BY: JWP

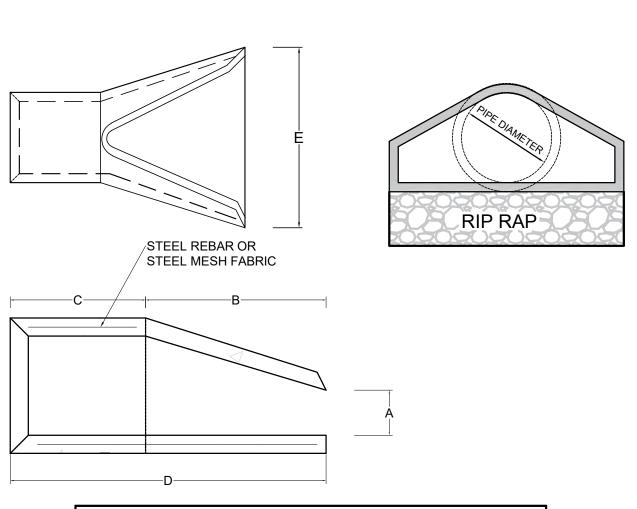
**CHECKED BY: TOWN PSD** 

SCALE: NOT TO SCALE

24" X 24" DROP INLET FRAME AND GRATE

PUBLIC SERVICES DEPARTMENT





FLARED END SECTION DIMENSIONS							
PIPE INNER DIAMETER	WALL THICKNESS	А	В	С	D	E	
	(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	
15"	2.25	9	27.5	42.5	70	30	
18"	2.5	11.5	26.5	42.5	69	36	
24"	3	13	47.5	25.5	69	48	
30"	3.5	16.5	54.5	14.75	69	60	
36"	3.75	22	67	30	97	72	
42"	6	29	67.5	25.5	93	78.5	
48"	5.5	31.5	69	25	94	84	
BASED ON AMERICAN CONCRETE PRODUCTS							

RIP RAP DIMENSIONS WILL VARY BASED UPON ENERGY DISSIPATION CALCULATIONS.

**SECTION: STORMWATER** 

DATE: 2021

DRAWN BY: JWP

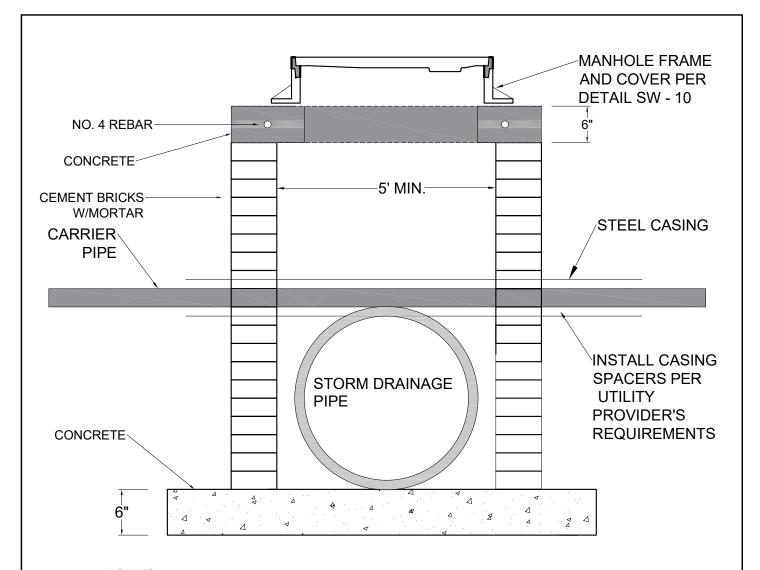
**CHECKED BY: TOWN PSD** 

SCALE: NOT TO SCALE

PRECAST CONCRETE FLARED END SECTION

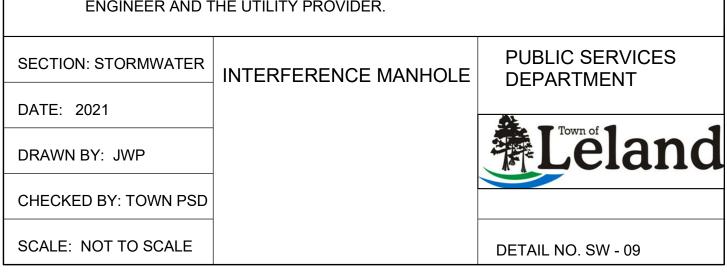
PUBLIC SERVICES DEPARTMENT





#### NOTES:

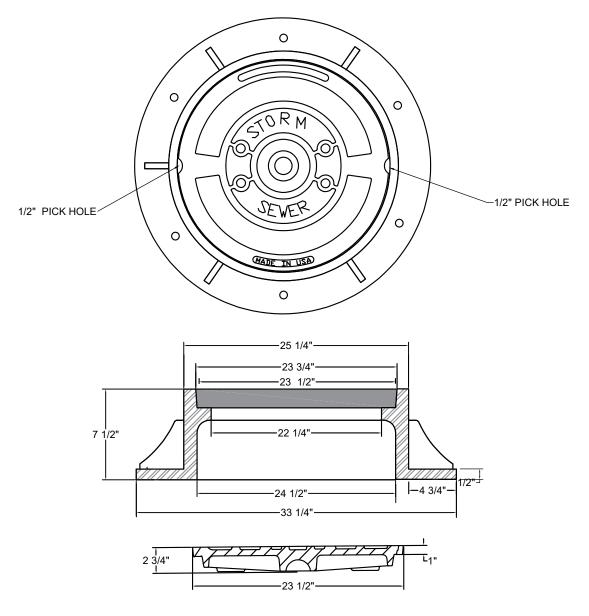
- 1. MANHOLE SIZE VARIES WITH THE SIZE OF THE STORM DRAINAGE PIPE
- 2. THE OUTSIDE OF THE STORM DRAINAGE PIPE SHALL BE AT LEAST 6" FROM THE INSIDE WALL OF THE INTERFERENCE MANHOLE.
- 3. THE STEEL CASING SHALL BE PLACED NO LOWER THAN THE MID-POINT OF THE STORM DRAINAGE PIPE ALLOWING WATER TO FLOW UNDER THE CARRIER PIPE.
- 4. CARRIER PIPE SHOULD BE CENTERED IN MANHOLE WITH NO JOINTS INSIDE THE INTERFERENCE MANHOLE
- 5. USE OF INTERFERENCE MANHOLE MUST BE APPROVED BY THE TOWN ENGINEER AND THE UTILITY PROVIDER.



MINIMUM WEIGHTS (LBS) FRAME 180

FRAME 180 COVER 120 TOTAL 300

MANHOLE COVER TO BE STAMPED WITH "DRAINS TO WATERWAYS, DO NOT DUMP".



SECTION: STORMWATER

DATE: 2021

DRAWN BY: JWP

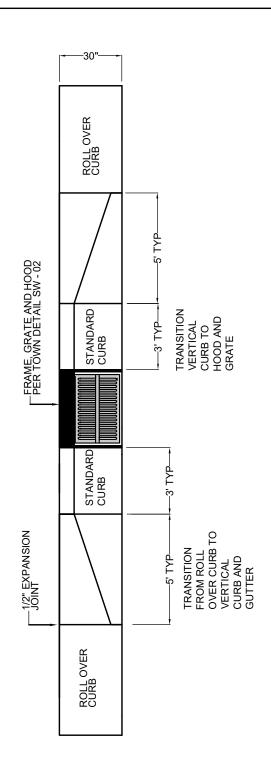
CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

MANHOLE RING AND COVER FOR STORMWATER JUNCTION BOXES AND INTERFERENCE MANHOLES

# PUBLIC SERVICES DEPARTMENT





**SECTION: STREETS** 

DATE: 2021

DRAWN BY: JWP

**CHECKED BY: TOWN PSD** 

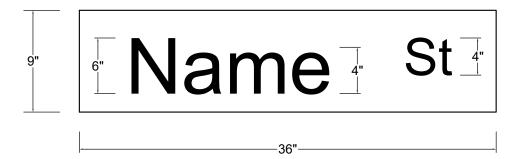
SCALE: NOT TO SCALE

TRANSITION FROM MODIFIED VALLEY CURB AND GUTTER TO VERTICAL CURB AND GUTTER

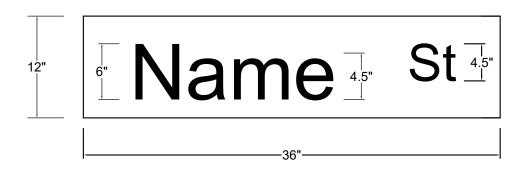
# PUBLIC SERVICES DEPARTMENT



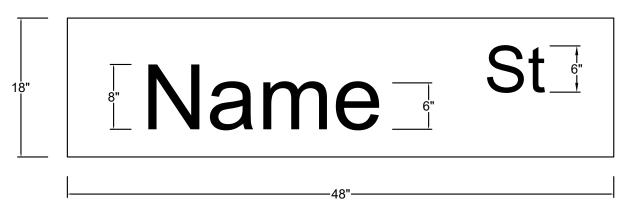
## RESIDENTIAL STREET



## **COLLECTOR STREET**



## THOROUGHFARE STREET



**SECTION: STREETS** 

DATE: 2021

DRAWN BY: JWP

CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

POST MOUNTED STREET NAME SIGN PUBLIC SERVICES DEPARTMENT



DETAIL NO. PM - 01

## STREET NAME SIGN NOTES

- 1. ALL SIGN BLANKS SHALL BE ALUMINUM.
- 2. ALL 36" SIGN BLANKS SHALL HAVE A MINIMUM THICKNESS OF .08" OR 2.0 MM.
- 3. ALL 48" SIGN BLANKS SHALL HAVE A MINIMUM THICKNESS OF .13" OR 3.2 MM.
- 4. ALL SIGN BLANKS LENGTHS ARE MINIMUMS. LONGER SIGN BLANKS MAY BE REQUIRED BASED UPON THE LENGTH OF THE STREET NAME.
- 5. ALL SIGNS SHALL BE DOUBLE SIDED WITH A REFLECTIVE BACKGROUND AND WHITE REFLECTIVE LETTERS.
- 6. ALL SIGNS SHALL CONFORM TO THE MUTCD STANDARDS FOR REFLECTIVITY.
- 7. THE LETTER FONT SHALL BE TRUE TYPE OR AS APPROVED IN THE FHWA STANDARD HIGHWAY SIGNS MANUAL LATEST EDITION.
- 8. FOR RESIDENTIAL STREETS WITH A SPEED LIMIT >25 MPH, THE COLLECTOR STREET NAME SIGN STANDARD SHALL BE USED.

**SECTION: STREETS** 

DATE: 2021

DRAWN BY: JWP

**CHECKED BY: TOWN PSD** 

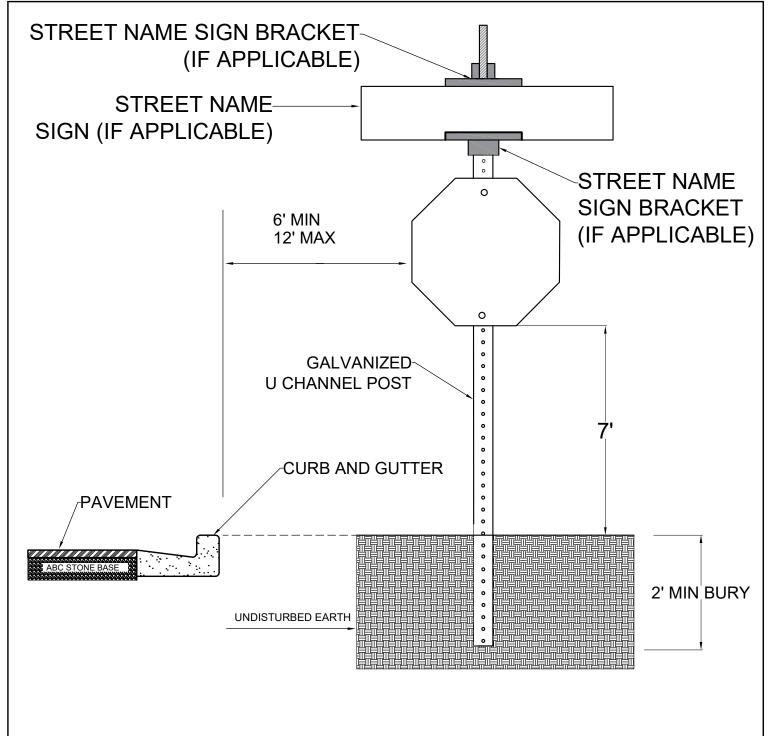
SCALE: NOT TO SCALE

STREET NAME SIGN NOTES

PUBLIC SERVICES DEPARTMENT



DETAIL NO. PM - 02



ALL SIGNS MUST MEET THE MUTCD REQUIREMENTS FOR SIZE, HEIGHT ABOVE THE GROUND, AND REFLECTIVITY.

SECTION: STREETS

DATE: 2021

DRAWN BY: JWP

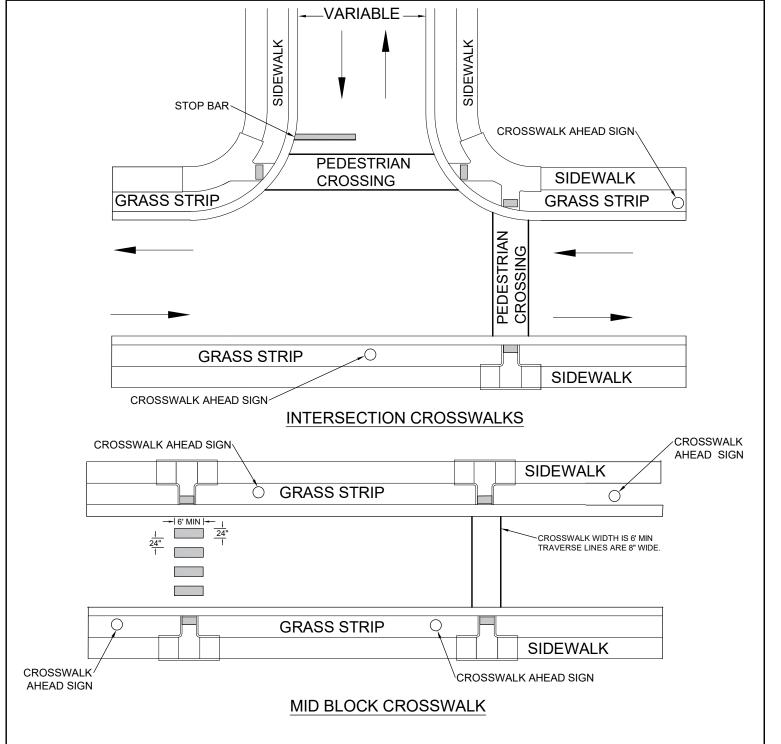
CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

SIGN LOCATION

PUBLIC SERVICES
DEPARTMENT

L'Town of land
DETAIL NO. PM - 03



CROSSWALK AHEAD SIGNS SHALL MEET MUTCD REQUIREMENTS AND BE PLACED NO CLOSER THAN 100' FROM THE CROSSWALK FOR STREETS WITH A DESIGN SPEED OF 35 MPH OR LESS. FOR STREETS WITH HIGHER DESIGN SPEEDS, USE MUTCD STANDARD.

SECTION: MARKINGS

DATE: 2021

DRAWN BY: JWP

CHECKED BY: TOWN PSD

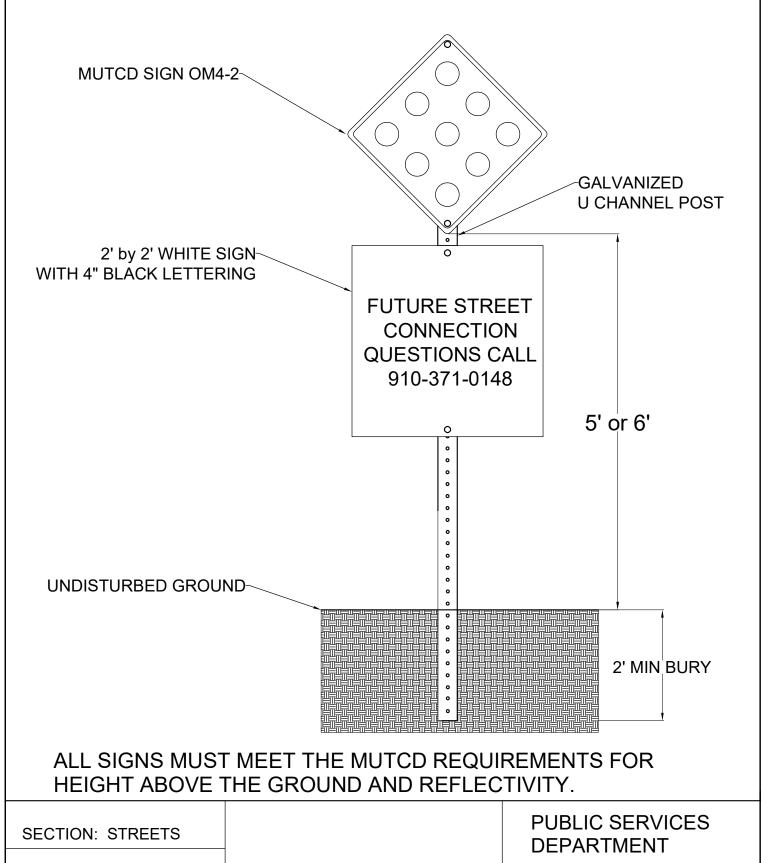
SCALE: NOT TO SCALE

CROSSWALK
MARKINGS FOR
INTERSECTIONS AND
MID BLOCK





DETAIL NO. PM - 04



DATE: 2022

DRAWN BY: AMW

CHECKED BY: TOWN PSD

SCALE: NOT TO SCALE

FUTURE STREET
CONNECTION SIGNAGE



DETAIL NO. PM - 05

