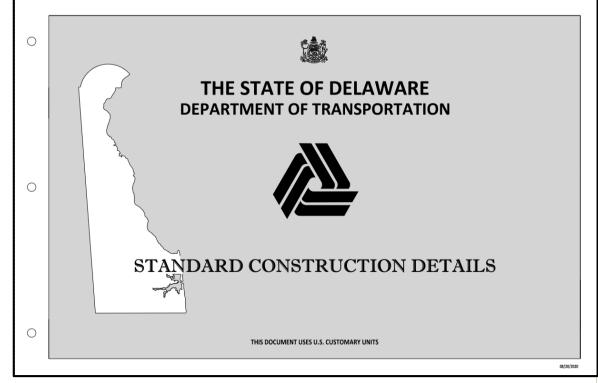
DelDOT 2020 Standard Details Changes: Sections II thru VIII

October 27, 2020

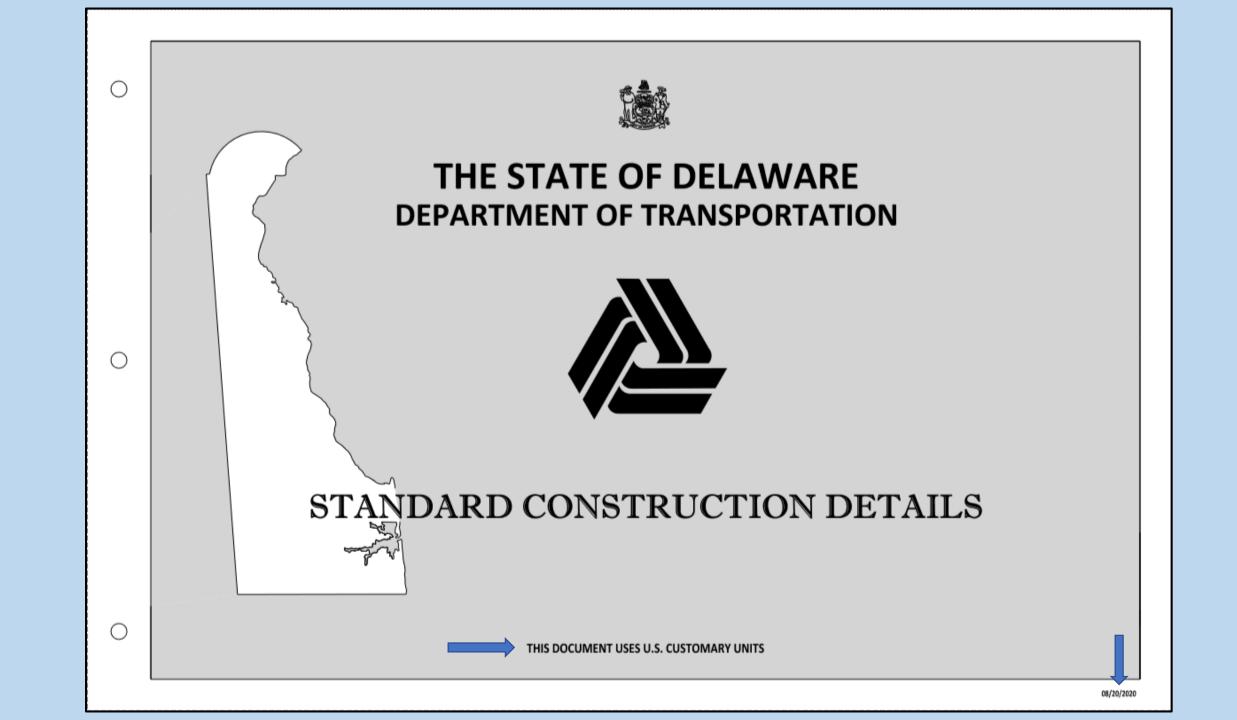
2020 Standard Details

- Deletions
- Major changes
- Additions









Section II: Curb and Gutter

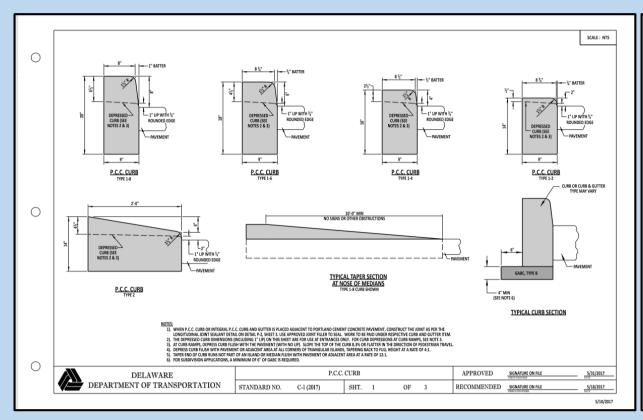
Revised Standard Details

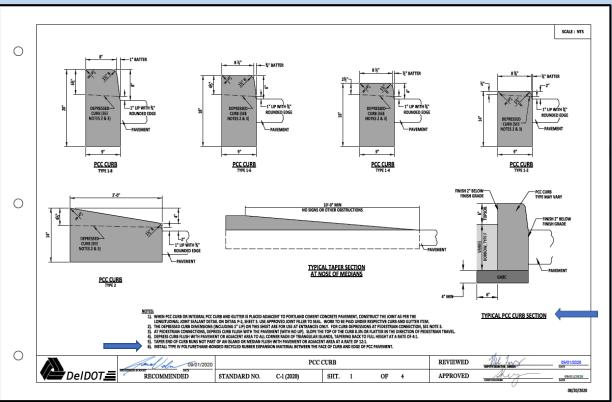
- C-1 PCC Curb, Integral PCC Curb and Gutter, PCC Roundabout and Guardrail Median Curb (NEW)
- C-2 Pedestrian Connection, Types 1 5
- C-3 Entrances
- C-5 Curb/Sidewalk Opening

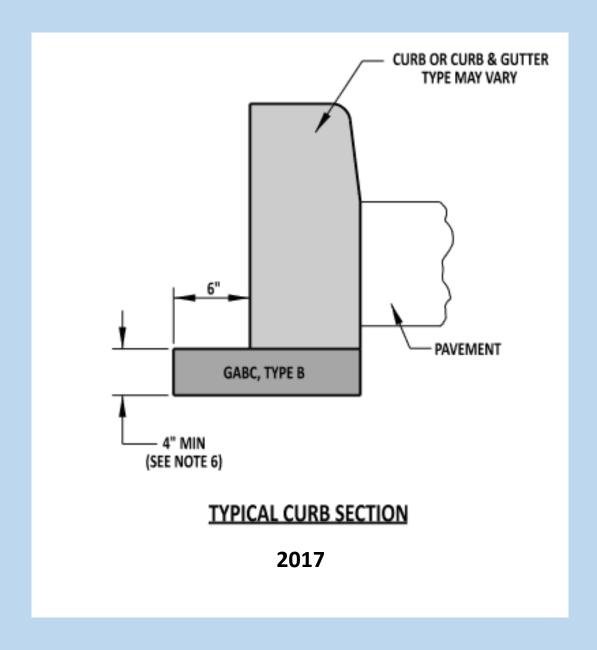
DETAIL C-1 Sheet 1

2017 PCC CURB

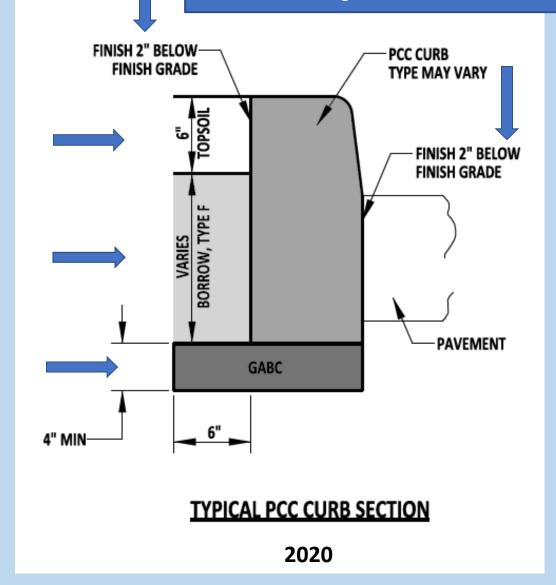
2020 PCC CURB

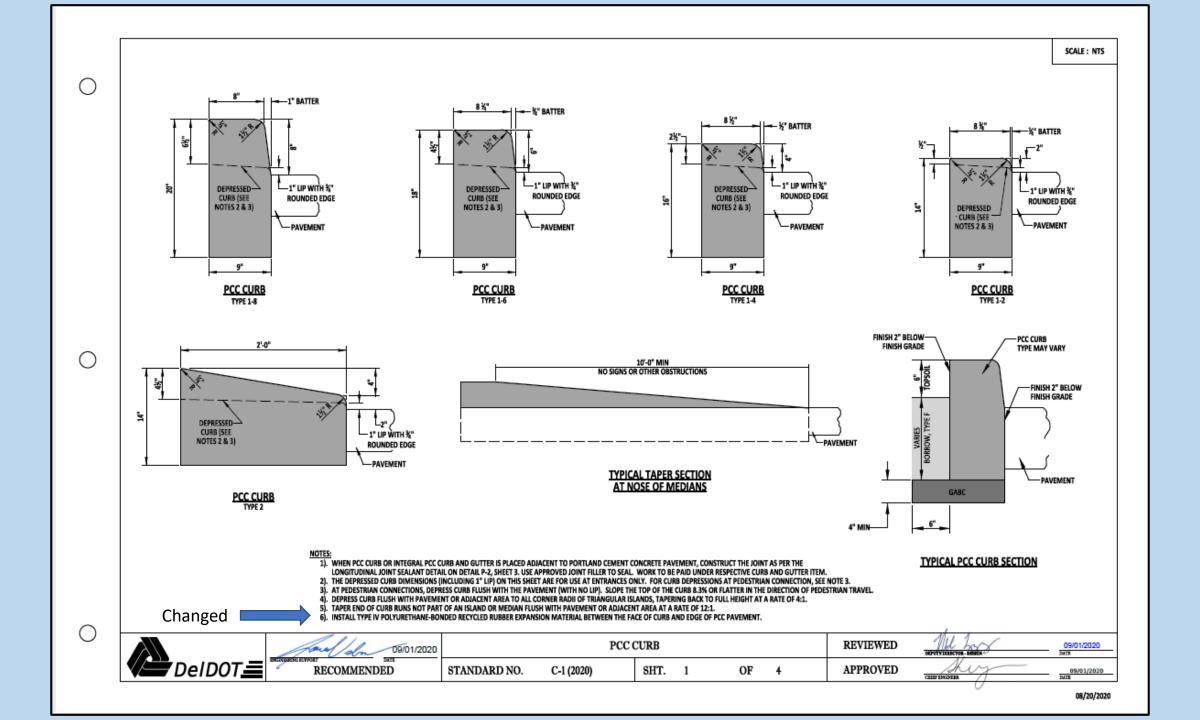


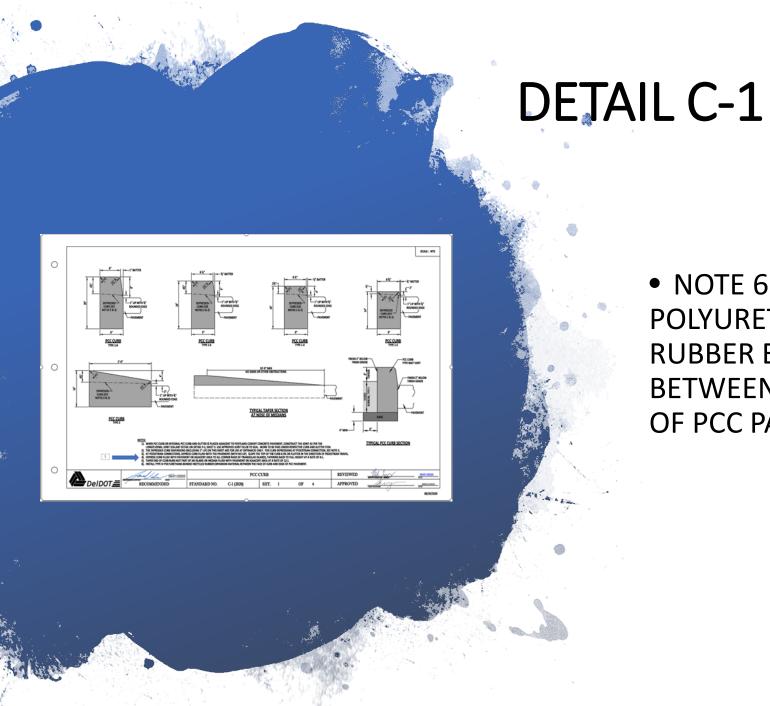




Added Borrow Type F, Topsoil, and Finished Grade location. GABC is no longer mentioned as Type B. All items are no longer incidental to the curb.







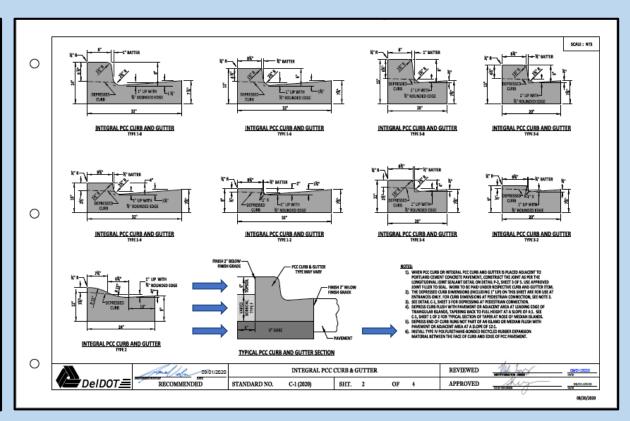
• NOTE 6 – INSTALL TYPE IV POLYURETHANE – BONDED RECYCLED RUBBER EXPANSION MATERIAL BETWEEN THE FACE OF CURB AND EDGE OF PCC PAVEMENT.

DETAIL C-1 Sheet 2

2017 INTEGRAL P.C.C. CURB & GUTTER

1" LIP WITH LINE 1" LIP WITH INTEGRAL P.C.C. CURB AND GUTTER PAVEMENT OR ADJACENT AREA AT A SLOPE OF 12:1. INTEGRAL P.C.C. CURB AND GUTTER INTEGRAL P.C.C. CURB & GUTTER 5/31/2017 DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD NO. SHT. 2 OF 3 RECOMMENDED SIGNATURE ON FILE 5/18/2017

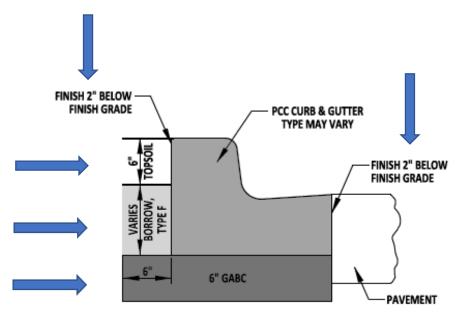
2020 INTEGRAL PCC CURB & GUTTER



NOTES:

- WHEN PCC CURB OR INTEGRAL PCC CURB AND GUTTER IS PLACED ADJACENT TO PORTLAND CEMENT CONCRETE PAVEMENT, CONSTRUCT THE JOINT AS PER THE LONGITUDINAL JOINT SEALANT DETAIL ON DETAIL P-2, SHEET 3 OF 5. USE APPROVED JOINT FILLER TO SEAL. WORK TO BE PAID UNDER RESPECTIVE CURB AND GUTTER ITEM.
- THE DEPRESSED CURB DIMENSIONS (INCLUDING 1" LIP) ON THIS SHEET ARE FOR USE AT ENTRANCES ONLY. FOR CURB DIMENSIONS AT PEDESTRIAN CONNECTION, SEE NOTE 3.
- 3). SEE DETAIL C-1, SHEET 3 FOR DEPRESSING AT PEDESTRIAN CONNECTION.
- 4). DEPRESS CURB FLUSH WITH PAVEMENT OR ADJACENT AREA AT LEADING EDGE OF TRIANGULAR ISLANDS, TAPERING BACK TO FULL HEIGHT AT A SLOPE OF 4:1. SEE C-1, SHEET 1 OF 2 FOR TYPICAL SECTION OF TAPER AT NOSE OF MEDIAN ISLANDS.
- DEPRESS END OF CURB RUNS NOT PART OF AN ISLAND OR MEDIAN FLUSH WITH PAVEMENT OR ADJACENT AREA AT A SLOPE OF 12:1.
- 6). INSTALL TYPE IV POLYURETHANE-BONDED RECYCLED RUBBER EXPANSION MATERIAL BETWEEN THE FACE OF CURB AND EDGE OF PCC PAVEMENT.

Note 6 – "INSTALL TYPE IV POLYURETHANE – BONDED RECYCLED RUBBER EXPANSION MATERIAL BETWEEN THE FACE OF CURB AND EDGE OF PCC PAVEMENT." Added Borrow Type F, Topsoil, and Finished Grade location. GABC is no longer mentioned as Type B. All items are no longer incidental to the curb.



TYPICAL PCC CURB AND GUTTER SECTION

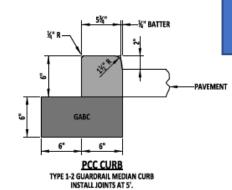


GABC

PAVEMENT

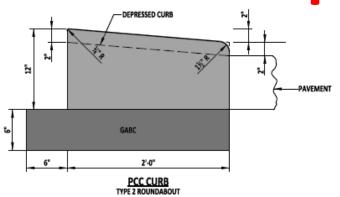
PCC CURB

TYPE 1-2 ROUNDABOUT



New detail for PCC Roundabout Curb and a new curb detail for median guardrail application to allow for deflection.

NEW



NOTE

 SEE TYPICAL PCC CURB SECTION DETAIL ON DETAIL C-1, SHEET 1 FOR PLACEMENT OF GABC UNDER CURB, UNLESS NOTED.



 \bigcirc

09/01/2020
RECOMMENDED

PCC ROUNDABOUT AND GUARDRAIL MEDIAN CURB

STANDARD NO. C-1 (2020) SHT. 4 OF

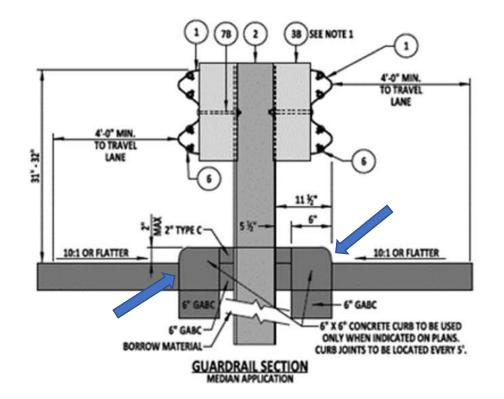
MEDIAN CURB REVIEWED

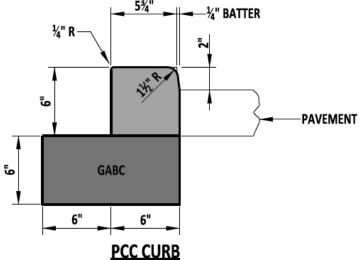
OF 4 APPROVED

DEPUTY DOSCUTOR - DIRECTOR

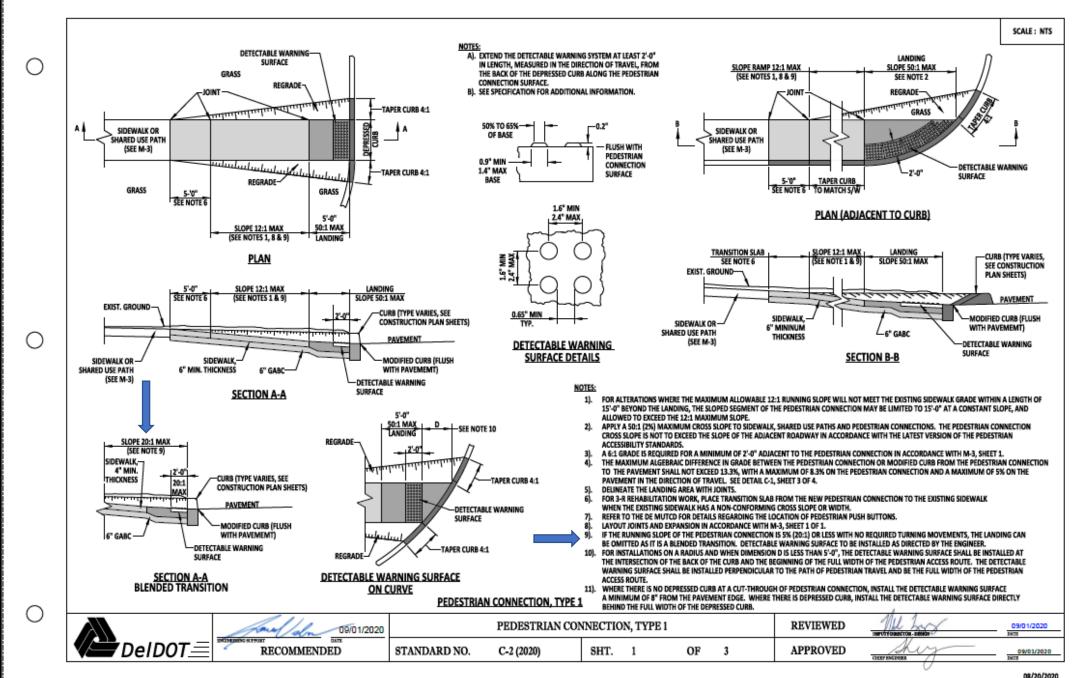
09/01/2020 DATE 09/01/2020

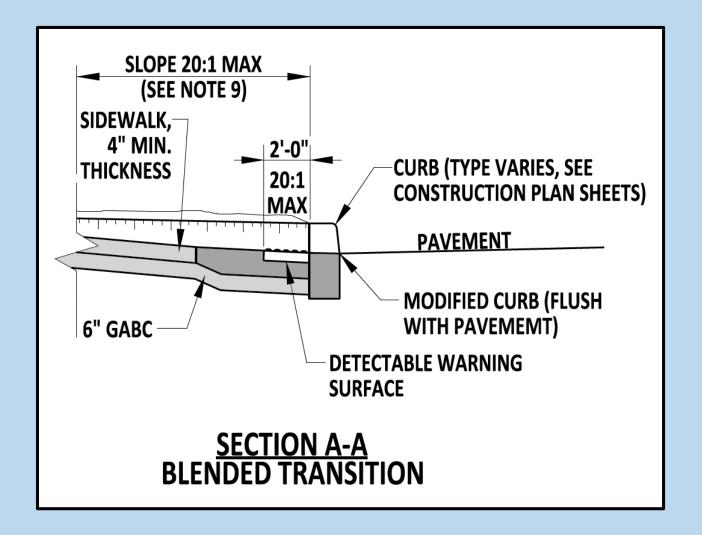
08/20/2020



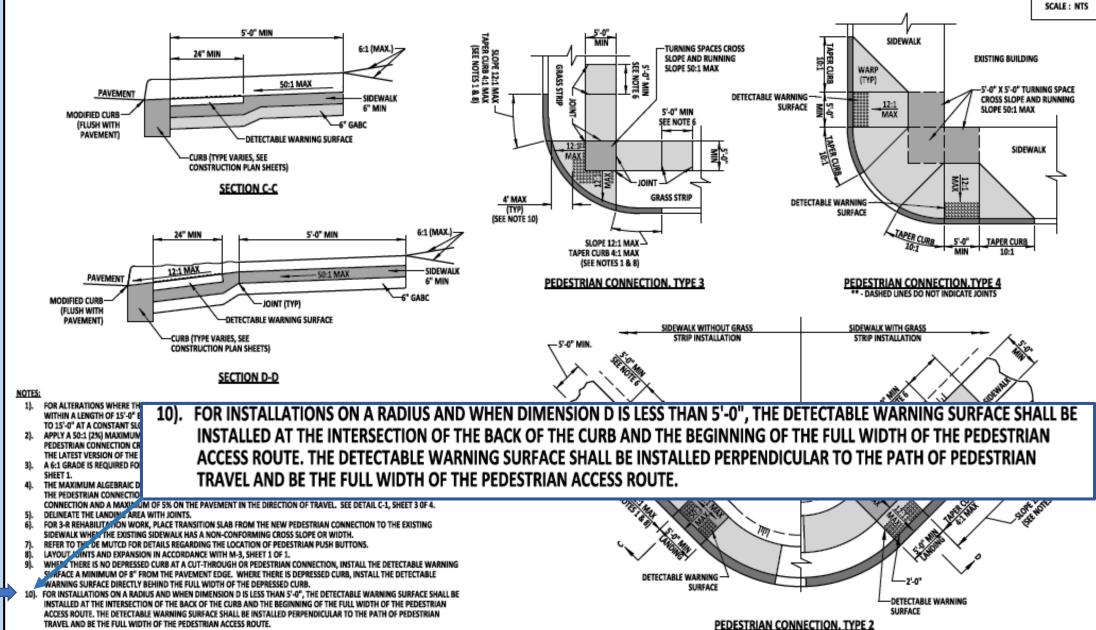


TYPE 1-2 GUARDRAIL MEDIAN CURB INSTALL JOINTS AT 5'.





9). IF THE RUNNING SLOPE OF THE PEDESTRIAN CONNECTION IS 5% (20:1) OR LESS WITH NO REQUIRED TURNING MOVEMENTS, THE LANDING CAN BE OMITTED AS IT IS A BLENDED TRANSITION. DETECTABLE WARNING SURFACE TO BE INSTALLED AS DIRECTED BY THE ENGINEER.



PEDESTRIAN CONNECTION, TYPE 2, 3 AND 4

SHT. 2

OF

C-2 (2020)

09/01/2020

STANDARD NO.

RECOMMENDED

REVIEWED

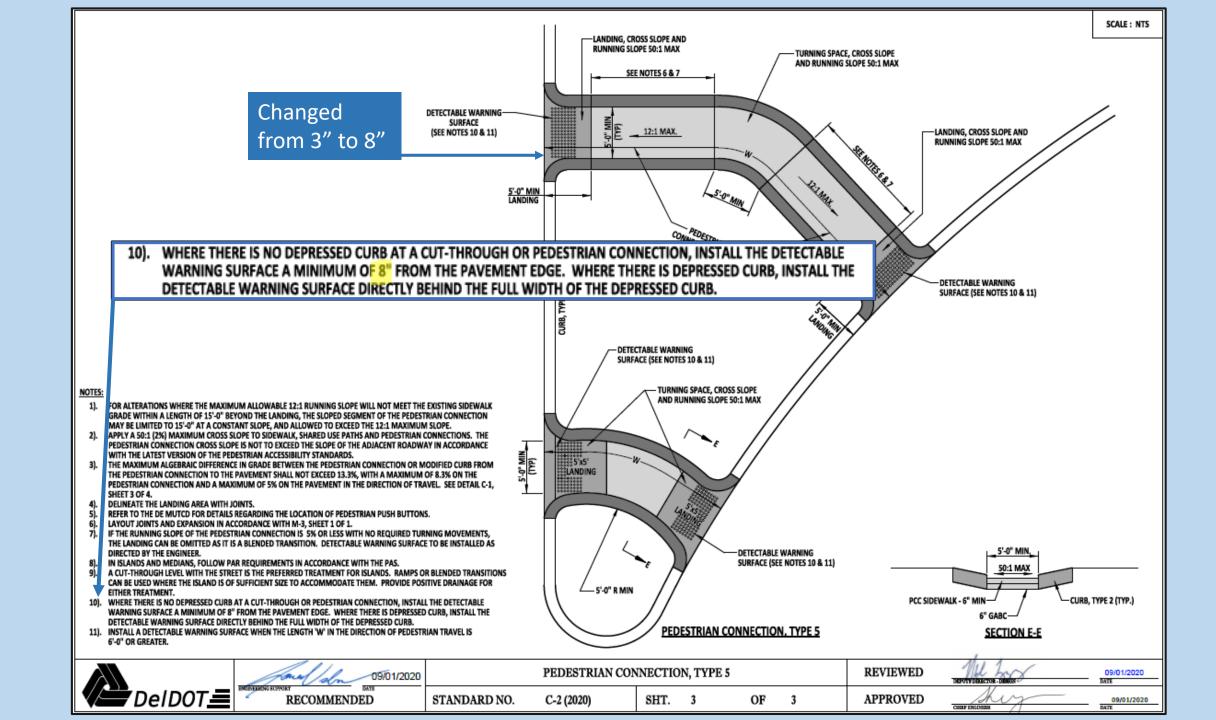
APPROVED

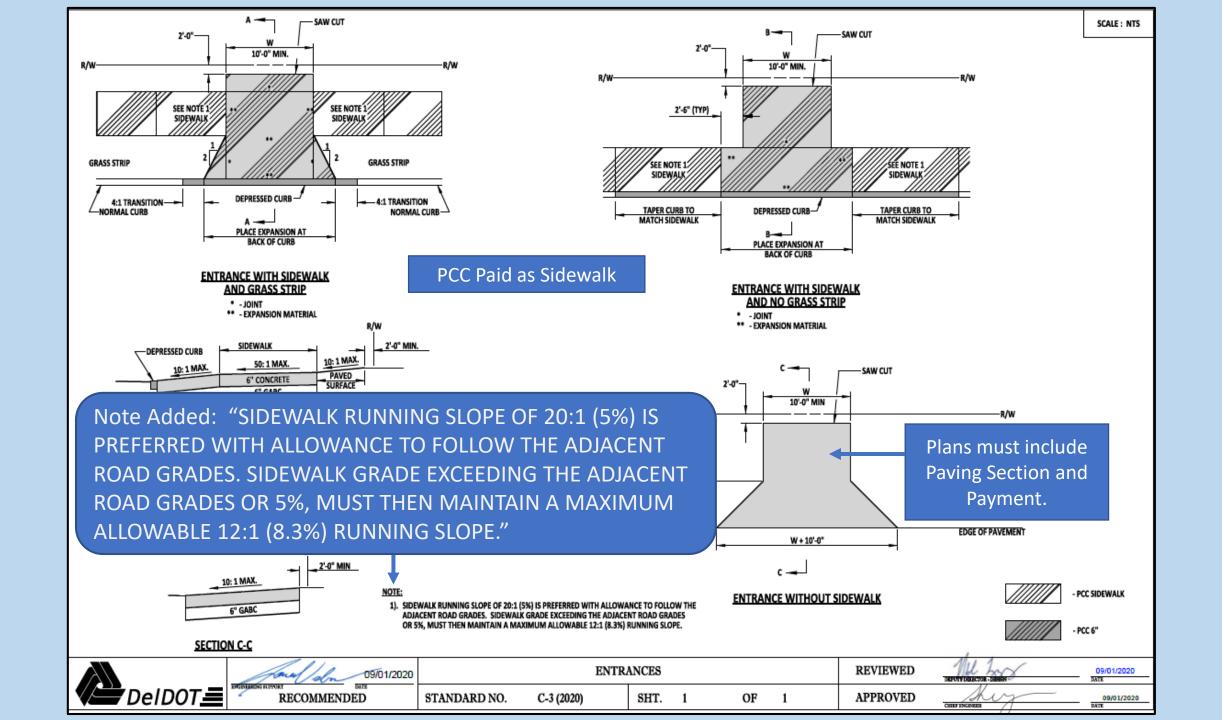
09/01/2020

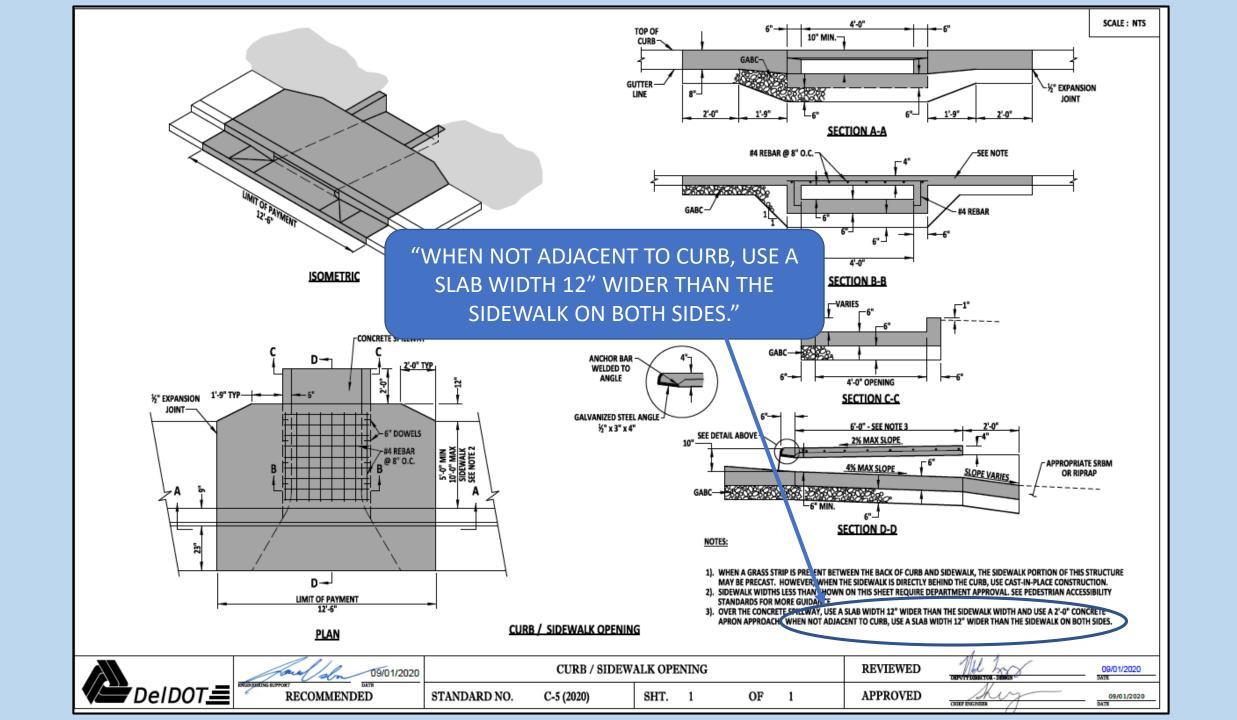
09/01/2020

Added

DelDOT**.**■







Section III: Drainage

Revised Standard Details

- D-R Drainage Inlet Reference Sheet
- D-4 Inlet Box
- D-5 Drainage Inlet Assembly, Drainage Inlet Cover Slab, Doghouse Inlet Box
- D-6 Box and Round Manhole Assembly, Manhole GR, TU, Fr, & Cover, Round Manhole Cover Slab
- D-8 Pipe Bedding and Pipe Flared End Support
- **D-9** Perforated Pipe Underdrain
- D-10 Pipe Plugging

Removed From Standard Details

- **D-7 Junction Box Detail** Without access presented an issue with pipe maintenance.
- **D-11 Safety Metal End Section** Removed to conform with removal of metal pipe from Section 601



NFW



SCALE: NTS

Removed 12"Pipe

INLET BOX SIZE		COVER SLAB SIZE	DRAINAGE INLET	INLET TOP UNIT	INLET TOP UNIT	INLET TOP UNIT	FRAME & GRATE (SEE DETAIL D-5, SHEET 2)		M PIPE SIZE NOTE 1)	
L	w	(LXW)	TOP UNIT	REBAR LENGTH	LIMIT OF PAYMENT	BAR BENDING DIAGRAM	SEE NOTE 6	L	W OF GRATE)	
17%"	11%"	NO COVER SLAB	TYPE 5 (FRAME & GRATE COMBO)	N/A	N/A	N/A	TYPE 5 (FRAME & GRATE COMBO)	N/A	N/A	4'-0"
24"	24"	NO COVER SLAB	TYPE 6 (FRAME & GRATE COMBO)	N/A	N/A	N/A	TYPE 6 (FRAME & GRATE COMBO)	15"	15"	4'-0"
34"	18"	NO COVER SLAB (D-5, SHEET 7)	TYPES A, C, D, & E (D-5, SHEET 7)	79"	82"	5504 (D-5, SHEET 7)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME	24"	N/A	4'-0"
34"	24"	NO COVER SLAB (D-5, SHEET 6)	TYPES A, B, C, D, E, & S (SEE NOTE 4)	79"	82"	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME	24"	15"	11'-4"
48"	30"	60" x 42" (D-5, SHEET 4)	TYPES A, B, C, D, E & S (SEE NOTE 5)	93"	96"	SS01 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME	36"	21"	11'-4"
48"	48"	60" x 60" (D-5, SHEET 4)	TYPES A, B, C, D, E & S (SEE NOTE 5)	93"	96"	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME	36"	36"	11'-4"
66"	30"	78" x 42" (D-4, SHEET 4)	TYPES A, B, C, D, E & S (SEE NOTE 5)	111*	114"	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME	48"	21"	11'-4"
66"	48"	78" x 60" (D-5, SHEET 4)	TYPES A, B, C, D, E & S (SEE NOTE 5)	111"	114"	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME	48"	36"	11'-4"
66"	66"	78" x 78" (D-5, SHEET 4)	TYPES A, B, C, D, E & S (SEE NOTE 5)	111"	114"	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME	48"	48"	11'-4"
72"	24"	84" x 36" (D-5, SHEET 5)	TYPES A, B, C, D, E & S (SEE NOTE 5)	117"	120"	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME	54"	15"	11'-4"
72"	48"	84" x 60" (D-5, SHEET 5)	TYPES A, B, C, D, E & S (SEE NOTE 5)	117"	120"	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME	54°	36"	11'-4"
72"	72"	84" x 84" (D-5, SHEET 5)	TYPES A, B, C, D, E & S (SEE NOTE 5)	117"	120"	SS01 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME	54"	54"	11'-4"

NOTES:

- MAXIMUM PIPE SIZES ARE CALCULATED USING REINFORCED CONCRETE PIPE PERPENDICULAR TO THE BOX WALL. FOR OTHER PIPE SIZES, TYPES AND SKEW ANGLES OTHER THAN PERPENDICULAR, SEE CHART ON DELDOT DESIGN RESOURCE CENTER. THESE PIPE SIZES ARE NOT APPLICABLE FOR DOGHOUSE BOX INLET SHOWN ON DETAIL D-5, SHEET 9.
- STEPS ARE REQUIRED ON ALL DRAINAGE INLETS WHOSE DEPTH IS 4'-0" OR GREATER.
- SEE D-4 OR APPROPRIATE DETAIL SHEET FOR ADDITIONAL NOTES.
- FOR A 34" X 24" DRAINAGE INLET, SEE D-5, SHEET 6 FOR INLET TOP UNIT TYPES A, B, C, D, & E. FOR INLET TOP UNIT TYPE S,
- FOR MORE INFORMATION ON DRAINAGE INLET TOP UNIT TYPES A, B, C, D, & E SEE D-5, SHEET 3 AND FOR DRAINAGE INLET TOP UNIT, TYPE S, SEE D-5, SHEET 8.
- ONLY USE THE TYPE 7 DRAINAGE INLET GRATE WHEN SPECIFIED ON THE PLANS OR WITH APPROVAL OF THE ENGINEER.

Removed Note 7



09/01/2020 RECOMMENDED

DRAINAGE INLET REFERENCE SHEET

REVIEWED

STANDARD NO.

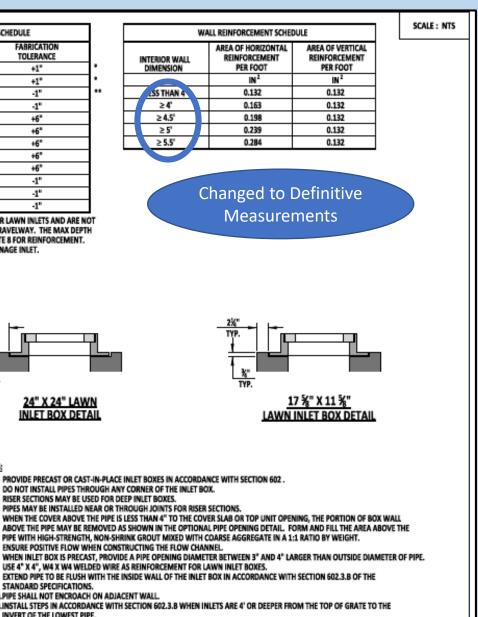
D-R (2020)

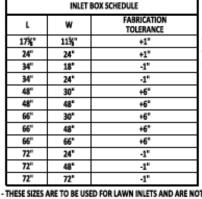
SHT. 1

OF

APPROVED

09/01/2020 CHILD INGINIOR





* - THESE SIZES ARE TO BE USED FOR LAWN INLETS AND ARE NO INTENDED TO BE USED IN THE TRAVELWAY. THE MAX DEPTH

** - MAX DEPTH IS 4' FOR THIS DRAINAGE INLET.

FOR THESE INLETS IS 4'. SEE NOTE 8 FOR REINFORCEMENT.

24" X 24" LAWN INLET BOX DETAIL



CLEAR (TYP.)

#4 @ 6" TYP.

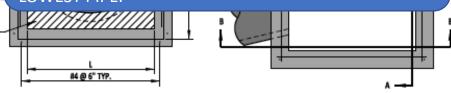
SECTION A-A

Note 11: "INSTALL STEPS IN ACCORDANCE WITH SECTION 602.3.B WHEN INLETS ARE 4' OR DEEPER FROM THE TOP OF GRATE TO THE INVERT OF THE LOWEST PIPE."

Note 9: "EXTEND PIPE TO BE FLUSH WITH THE INSIDE

SECTION 602.3.B OF THE STANDARD SPECIFICATIONS."

WALL OF THE INLET BOX IN ACCORDANCE WITH



NOTES:

- 1). PROVIDE PRECAST OR CAST-IN-PLACE INLET BOXES IN ACCORDANCE WITH SECTION 602.
- DO NOT INSTALL PIPES THROUGH ANY CORNER OF THE INLET BOX.
- RISER SECTIONS MAY BE USED FOR DEEP INLET BOXES.
- PIPES MAY BE INSTALLED NEAR OR THROUGH JOINTS FOR RISER SECTIONS.
- ABOVE THE PIPE MAY BE REMOVED AS SHOWN IN THE OPTIONAL PIPE OPENING DETAIL. FORM AND FILL THE AREA ABOVE THE

USE 4" X 4", W4 X W4 WELDED WIRE AS REINFORCEMENT FOR LAWN INLET BOXES.

- EXTEND PIPE TO BE FLUSH WITH THE INSIDE WALL OF THE INLET BOX IN ACCORDANCE WITH SECTION 602.3.B OF THE STANDARD SPECIFICATIONS.
- 10).PIPE SHALL NOT ENCROACH ON ADJACENT WALL.
- 11) INSTALL STEPS IN ACCORDANCE WITH SECTION 602.3.B WHEN INLETS ARE 4' OR DEEPER FROM THE TOP OF GRATE TO THE INVERT OF THE LOWEST PIPE.

DeIDOT**.**■

SECTION B-B

CAST-IN-PLACE

CONCRETE FLOW

CHANNEL (TYP.)

RECOMMENDED

09/01/2020

OPTIONAL PIPE OPENING DETAIL

SEE NOTE 5

STANDARD NO. D-4 (2020)

TOP VIEW

INLET BOX

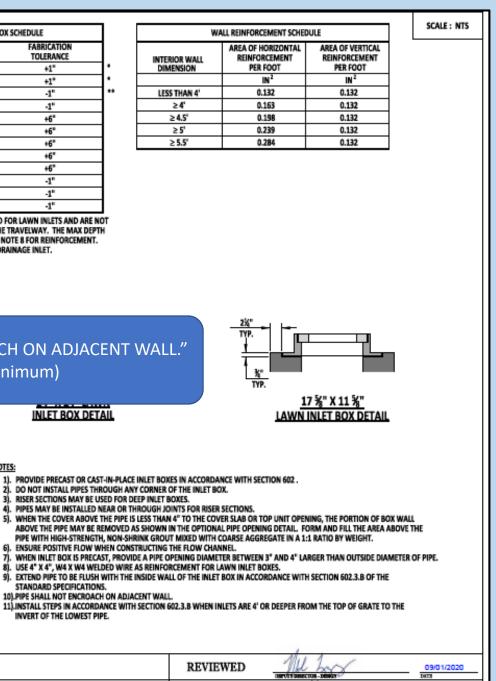
Added

Added.

SHT. 1 OF

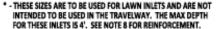
APPROVED

REVIEWED



APPROVED

L	w	FABRICATION TOLERANCE
17%"	11%"	+1"
24"	24"	+1*
34"	18"	-1"
34"	24"	-1"
48"	30"	+6"
48"	48"	+6"
66"	30"	+6"
66"	48"	+6"
66"	66"	+6*
72"	24"	-1"
72"	48"	-1"
72"	72°	-1"



NOTES:

INLET BOX

SHT.

OF

D-4 (2020)

** - MAX DEPTH IS 4' FOR THIS DRAINAGE INLET.

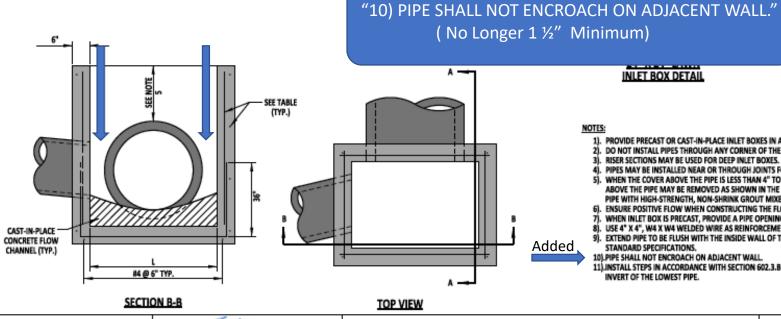
2½" CLEAR (TYP.) OPTIONAL PIPE OPENING DETAIL #4 @ 6" TYP. SEE NOTE 5

SECTION A-A

DeIDOT.

		meet box beingbook			
─ PRECAST OPENING, SEE NOTE 7	L	w	FABRICATION TOLERANCE		
1½" - 3"	17%	11%"	+1"		
MIN.	24"	24"	+1*		
	34"	18"	-1"		
	34"	24"	-1"		
	48"	30"	+6"		
	48"	48"	+6"		
	66"	30"	+6"		
	66"	48"	+6"		
	66"	66"	+6*		
	72"	24"	-1"		
	72"	48"	-1"		
11 411	72"	72"	-1"		
			D FOR LAWN INLETS AN		

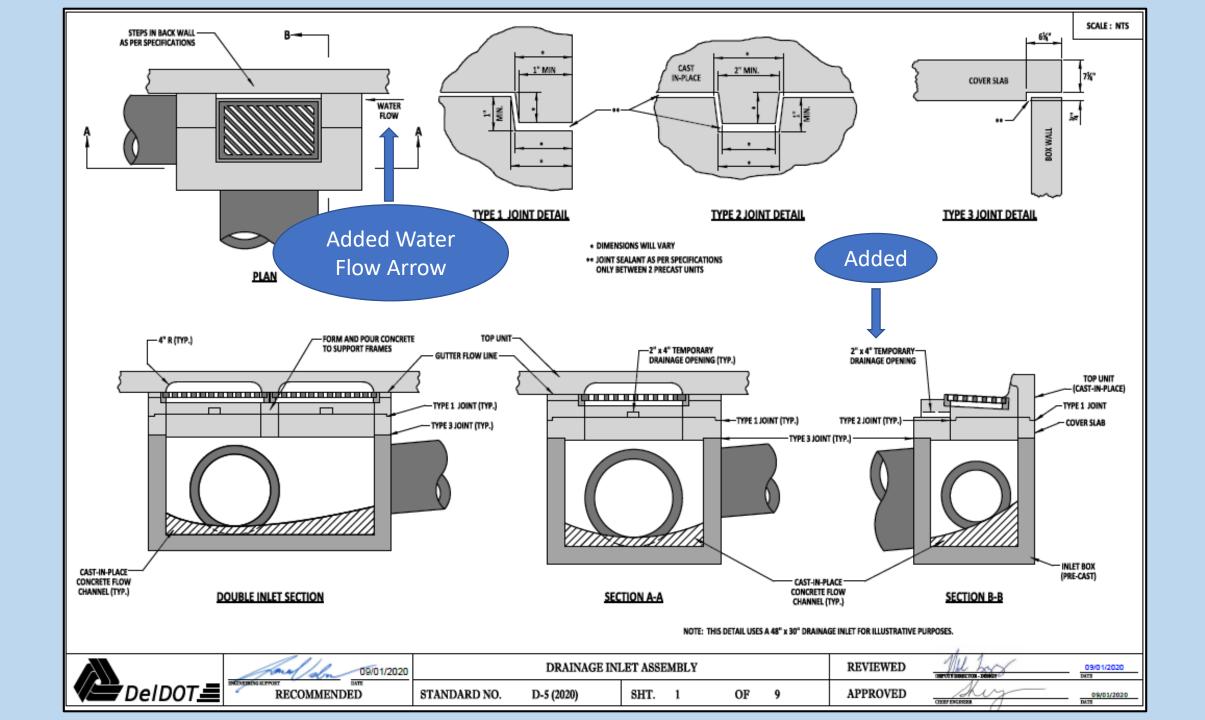
FOR THESE INLETS IS 4'. SEE NOTE 8 FOR REINFORCEMENT.

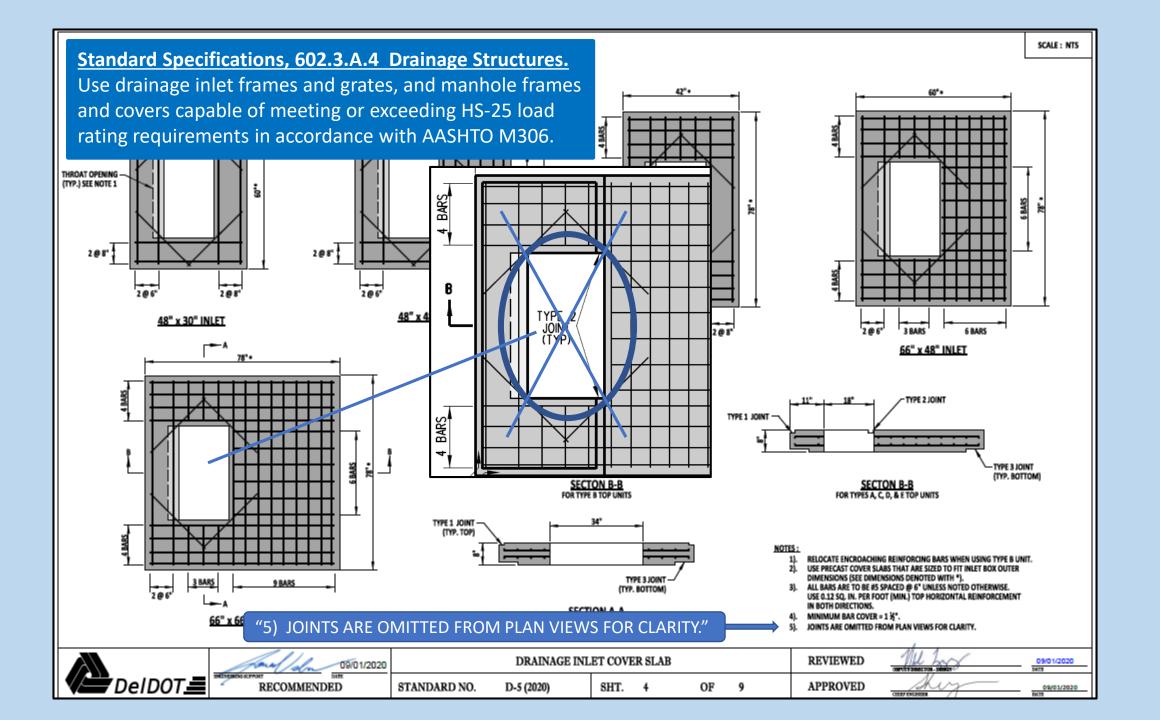


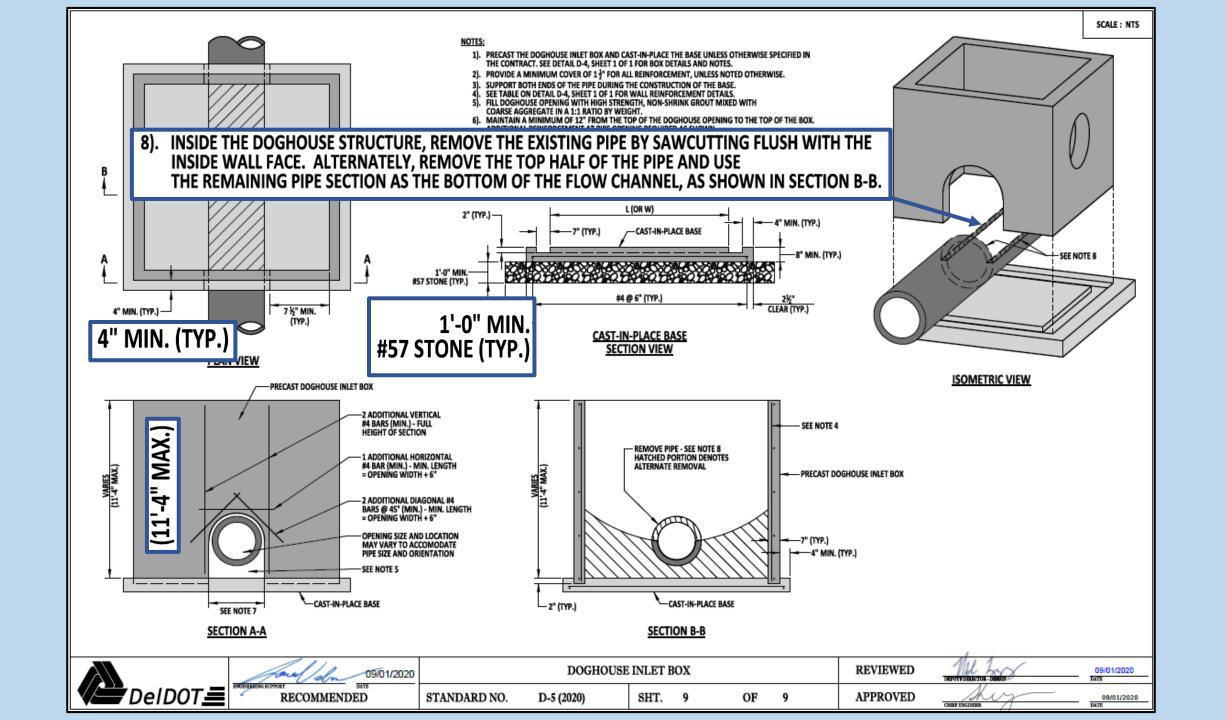
09/01/2020

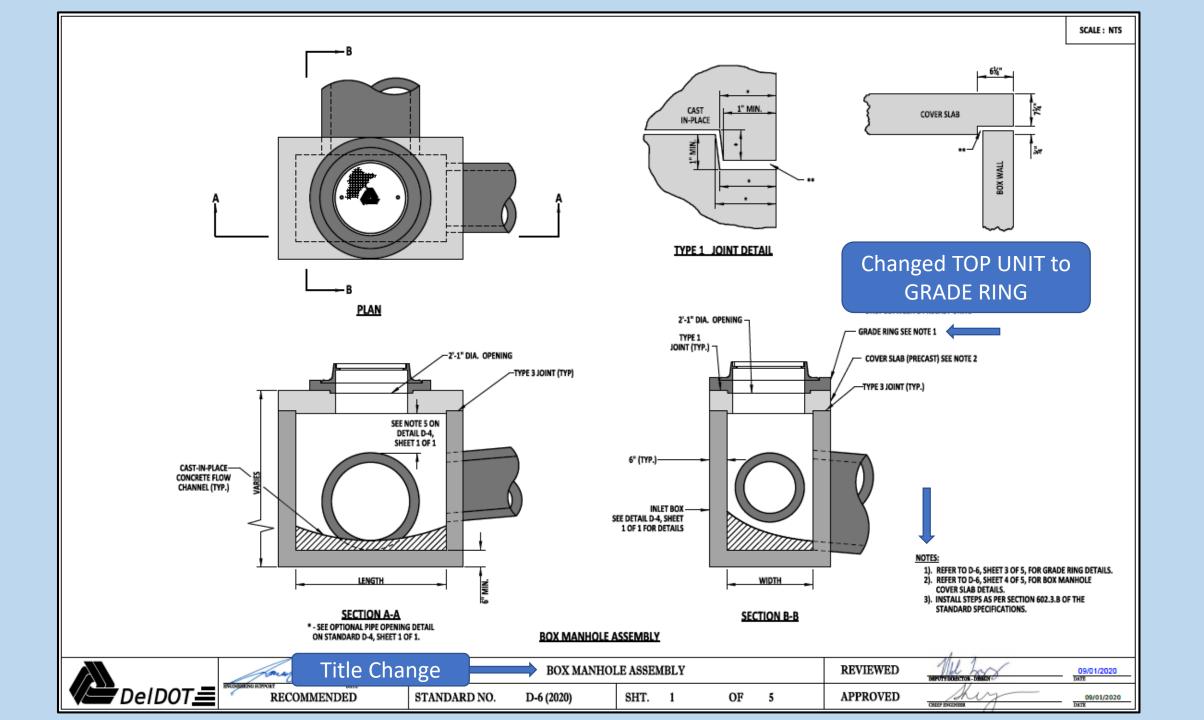
STANDARD NO.

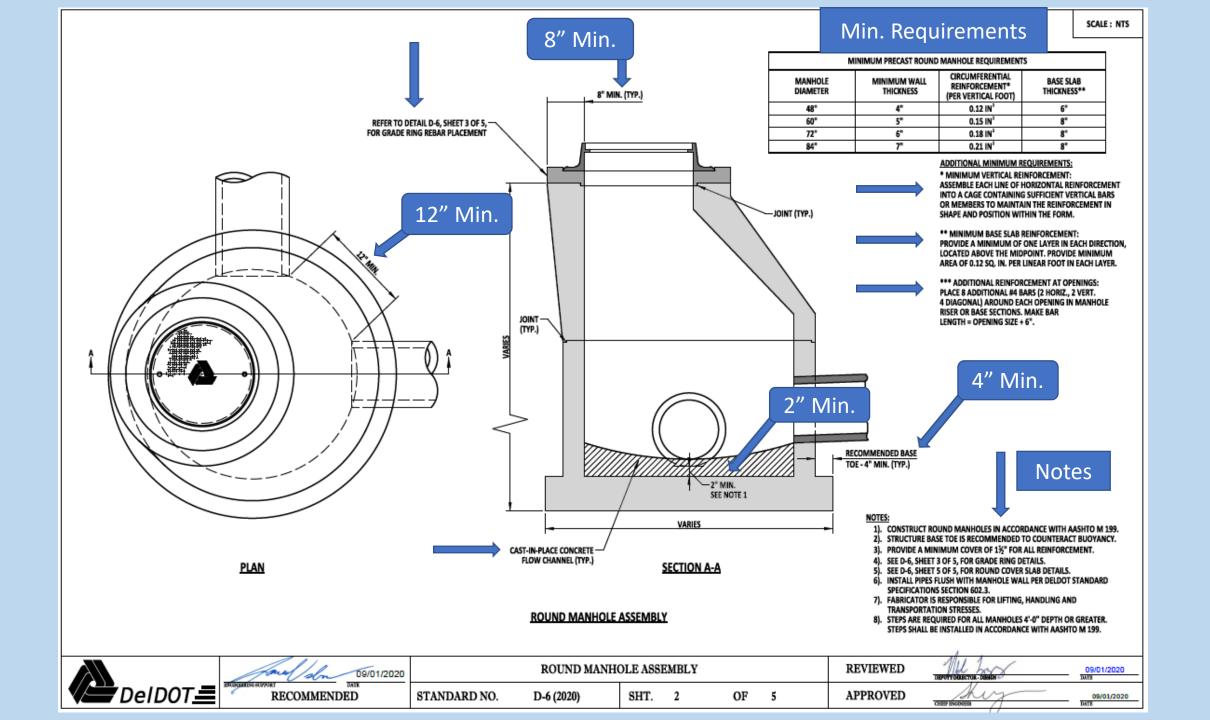
RECOMMENDED

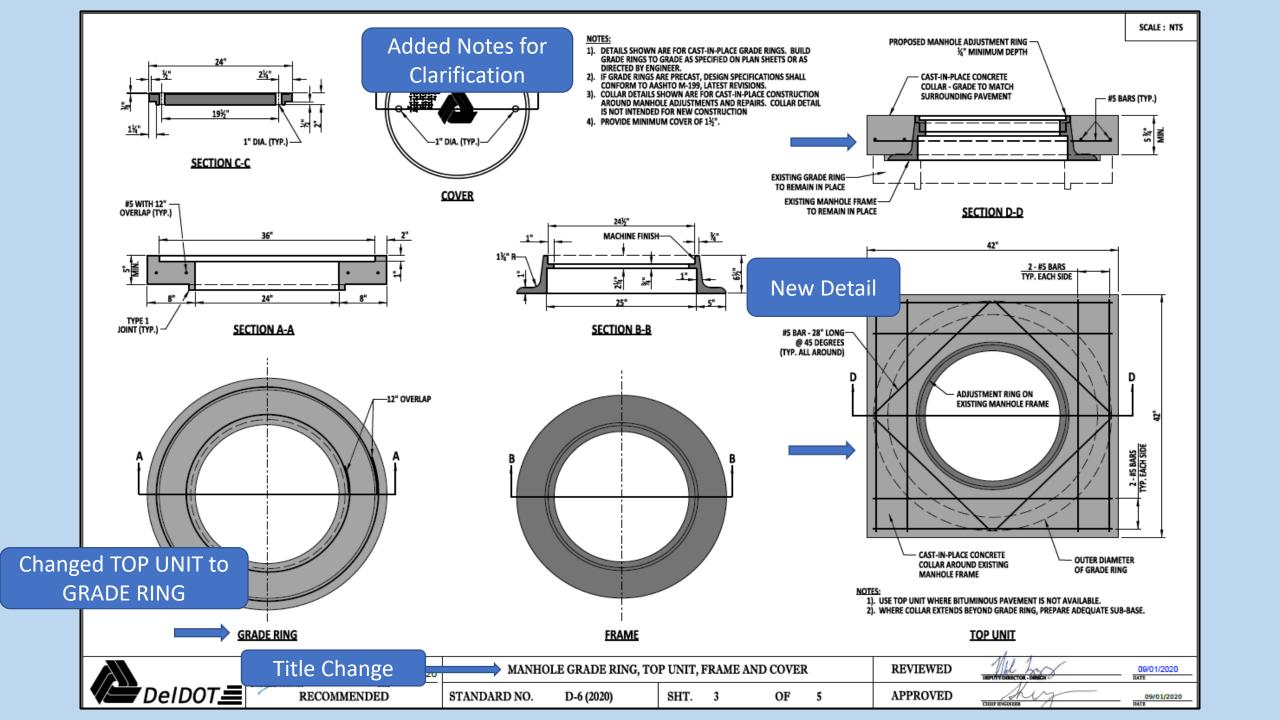


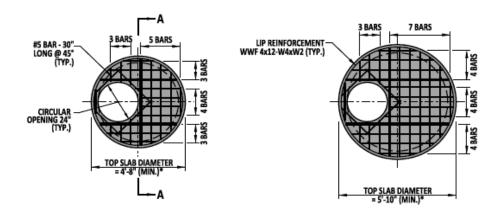


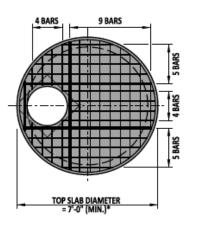


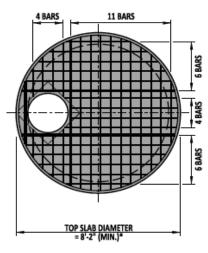












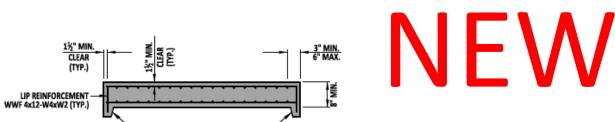
48" DIAMETER MANHOLE

60" DIAMETER MANHOLE

72" DIAMETER MANHOLE

84" DIAMETER MANHOLE

ROUND MANHOLE COVER SLAB DETAILS

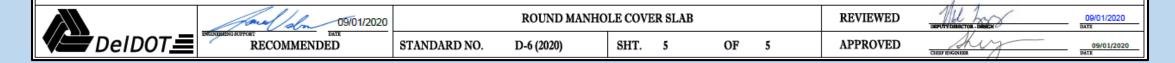


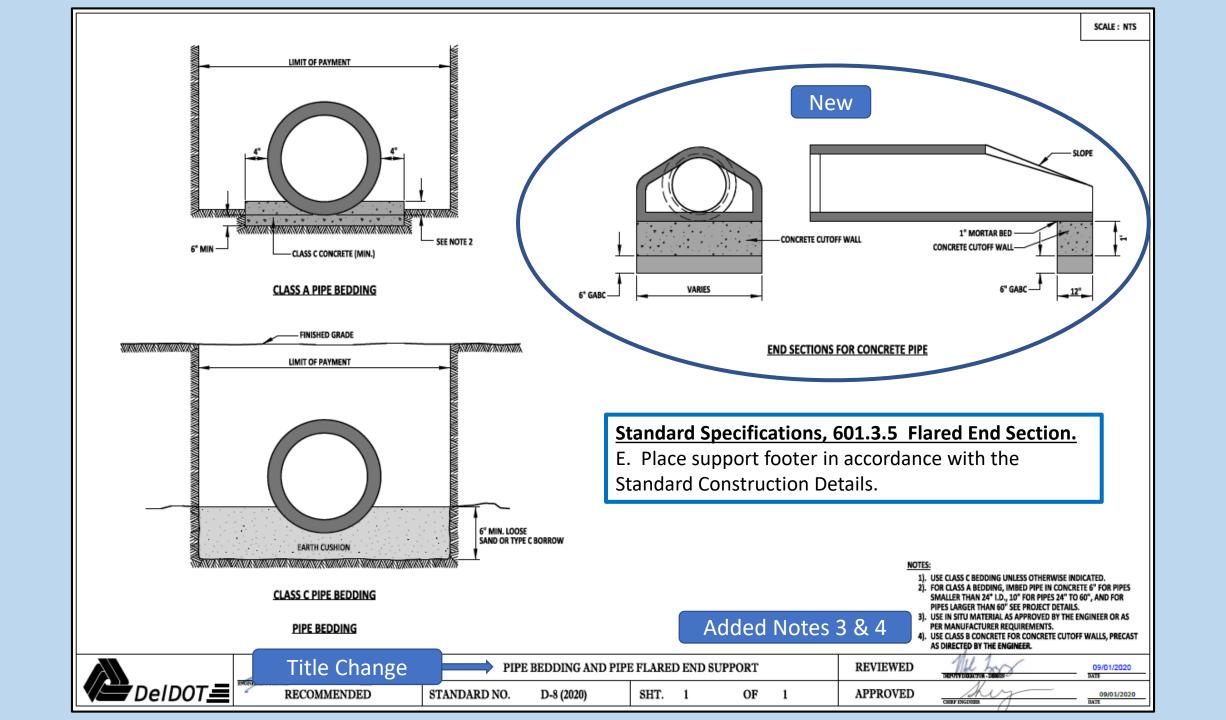
SECTION A-A
(ADDITIONAL REINFORCEMENT NOT SHOWN)

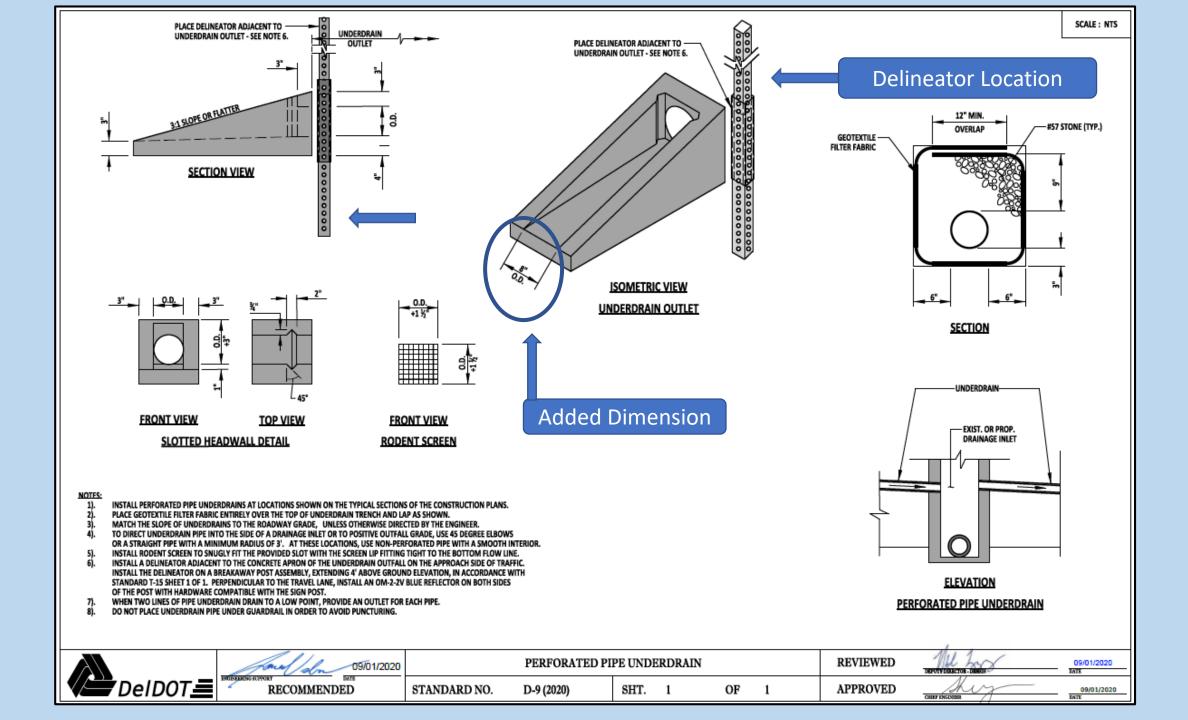
TYPE 1 JOINT

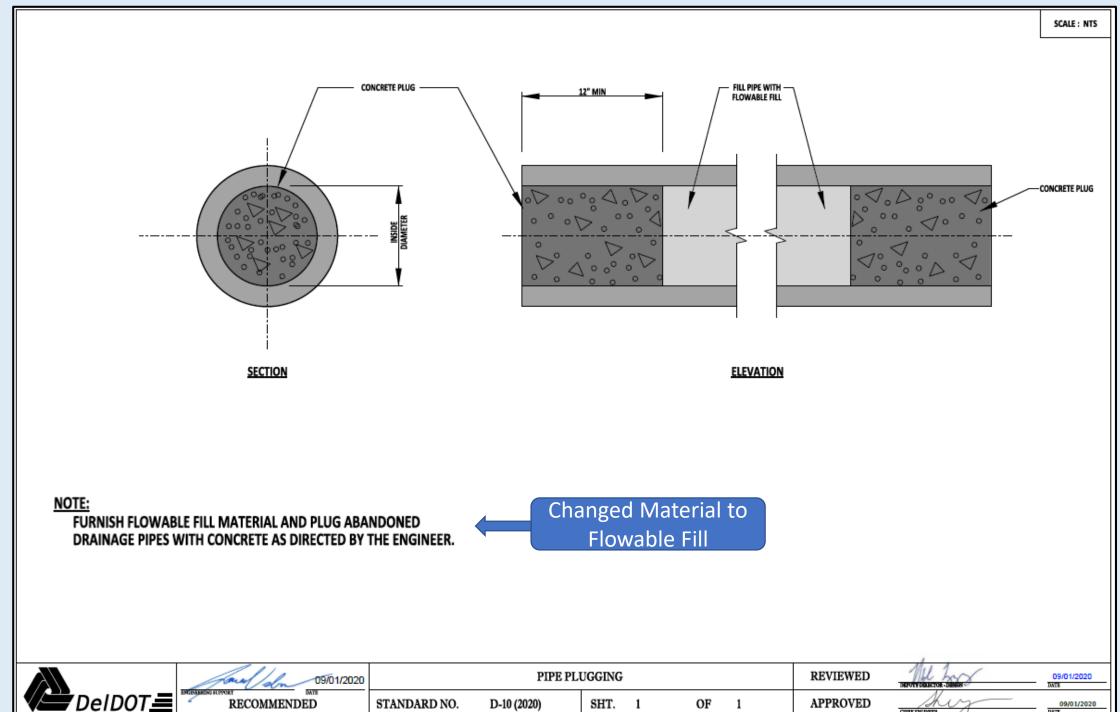
NOTES:

- PRECAST COVER SLABS.
- 2). USE #5 BARS SPACED AT 6" UNLESS NOTED OTHERWISE.
- PROVIDE A MINIMUM BAR COVER OF 1½".
- COVER SLAB DESIGN SPECIFICATIONS SHALL MEET HL-93 LOADING AND CONFORM TO AASHTO M-199, LATEST REVISIONS.
- DIMENSIONS TO MATCH OUTSIDE TO OUTSIDE DIMENSIONS OF MANHOLE. SEE SHEET 3 OF 5 FOR MINIMUM WALL THICKNESS.









DeIDOT**.**

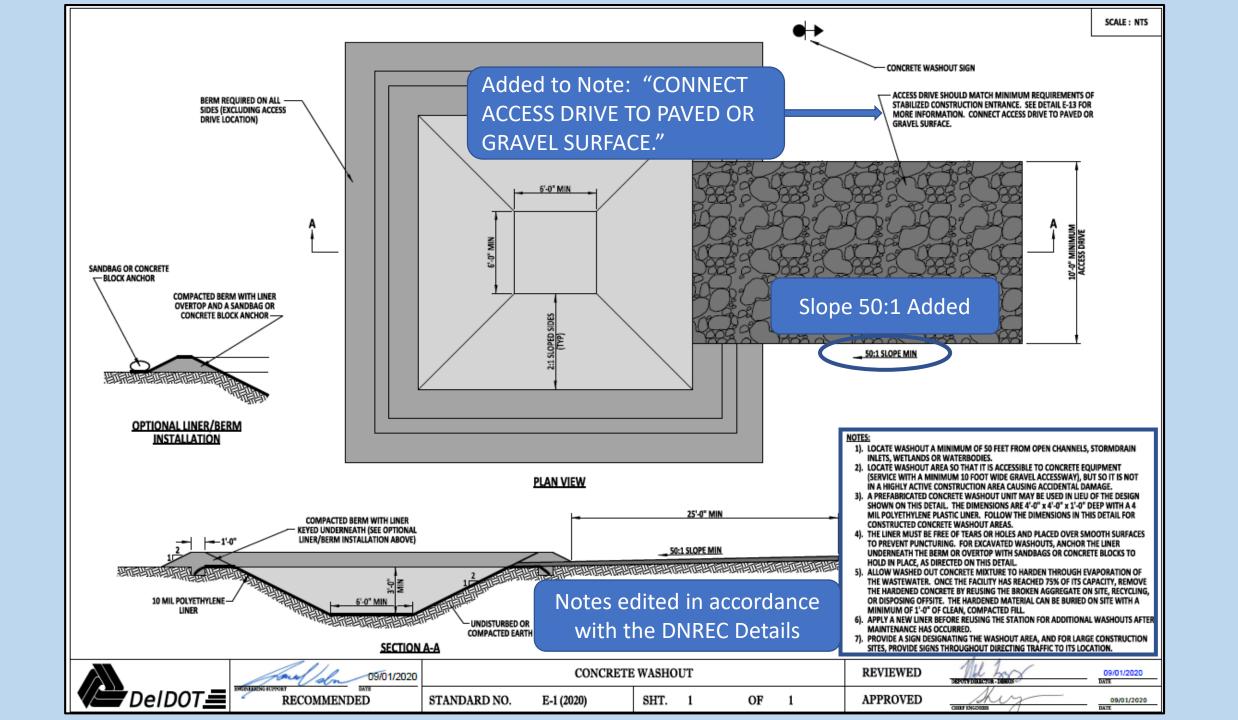
Section IV: Erosion

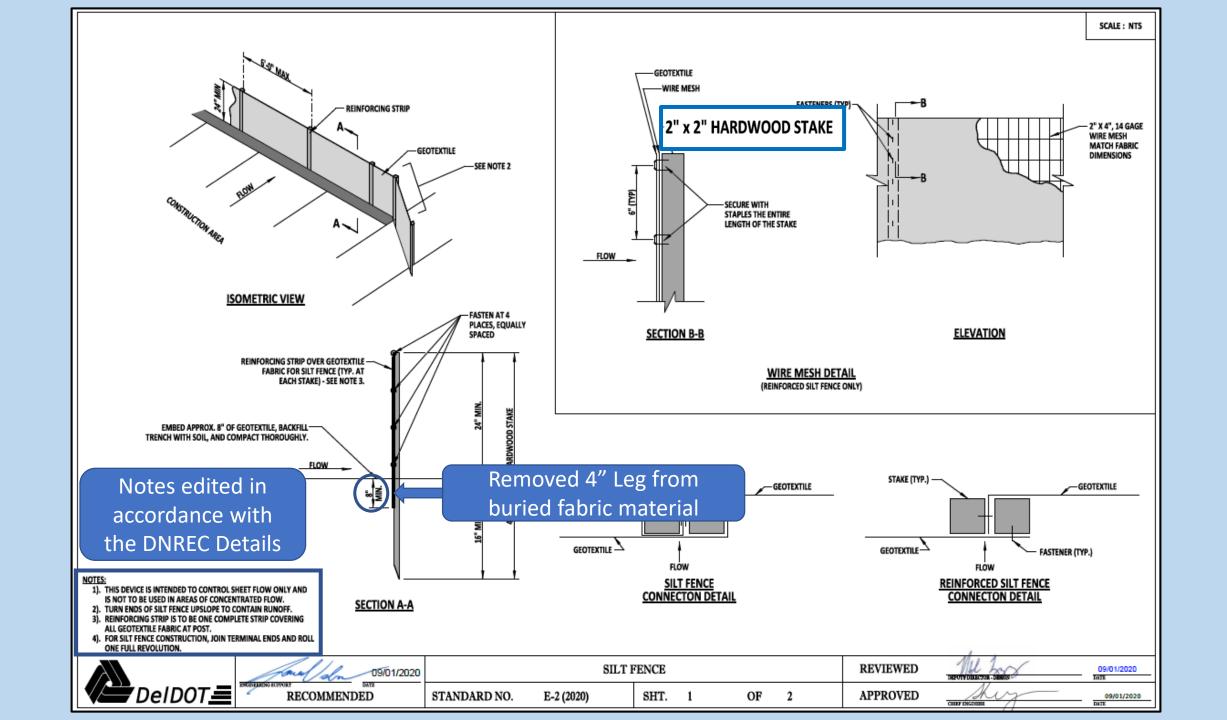
Revised Standard Details

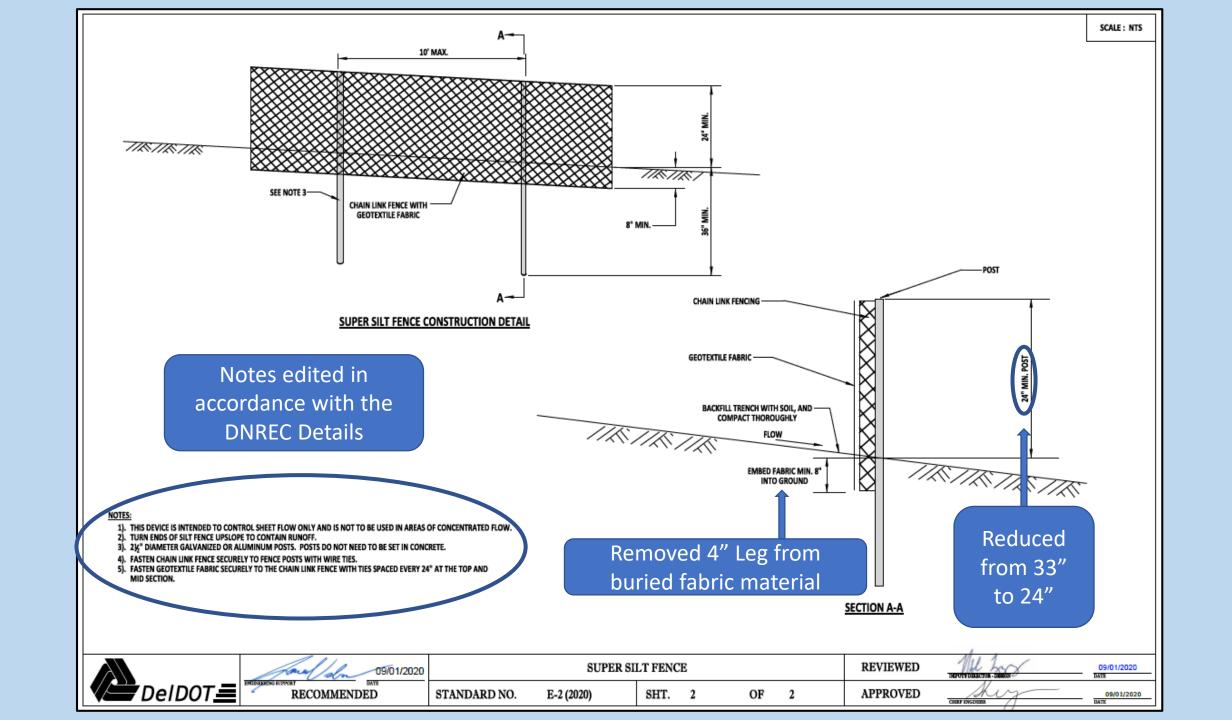
E-1	Concrete Washout	E-8	Skimmer Dewatering Device			
E-2	Silt Fence, Super Silt Fence	E-9	Check Dam			
E-3	Sediment Trap	E-10	Temporary Slope Drain			
E-4	Inlet Sediment Control, Drainage Inlet	E-17	Geotextile-Lined Char	nnel Diversion		
E-5	Inlet Sediment Control, Culvert Inlet	E-19	Stilling Well			
E-6	Portable Sediment Tank	E-21	Stone Outlet	GET OUTTA HERE		
Removed From Standard Details						

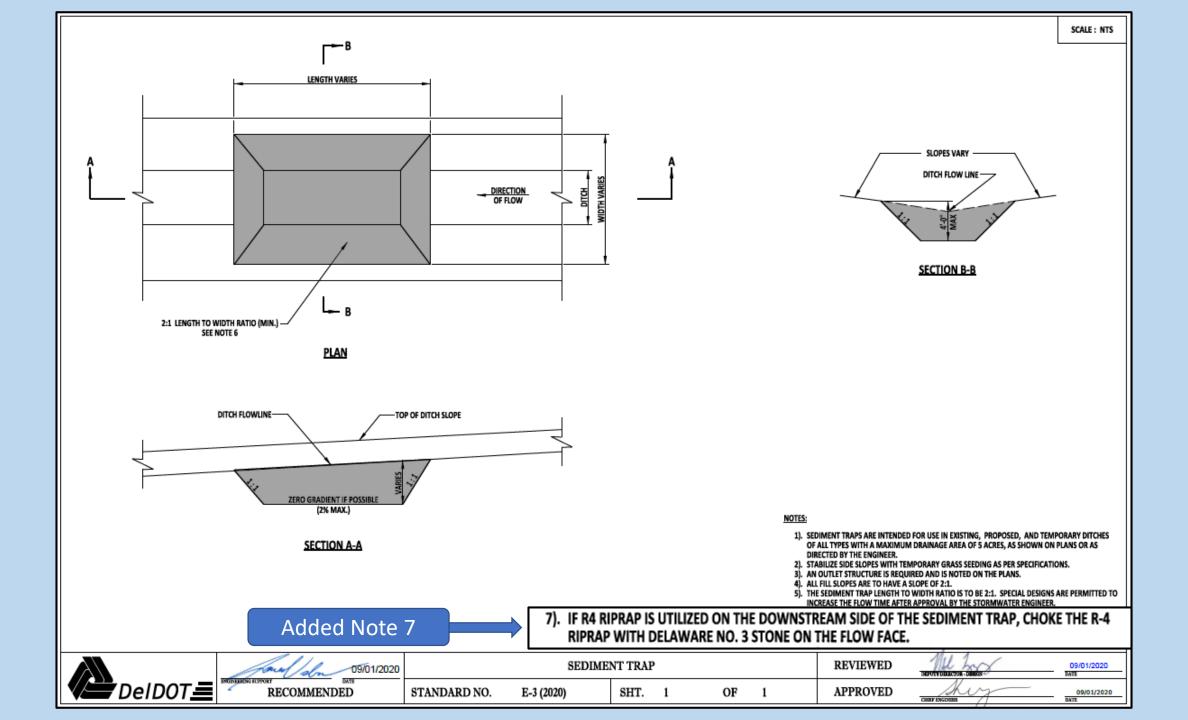
Removed From Standard Details

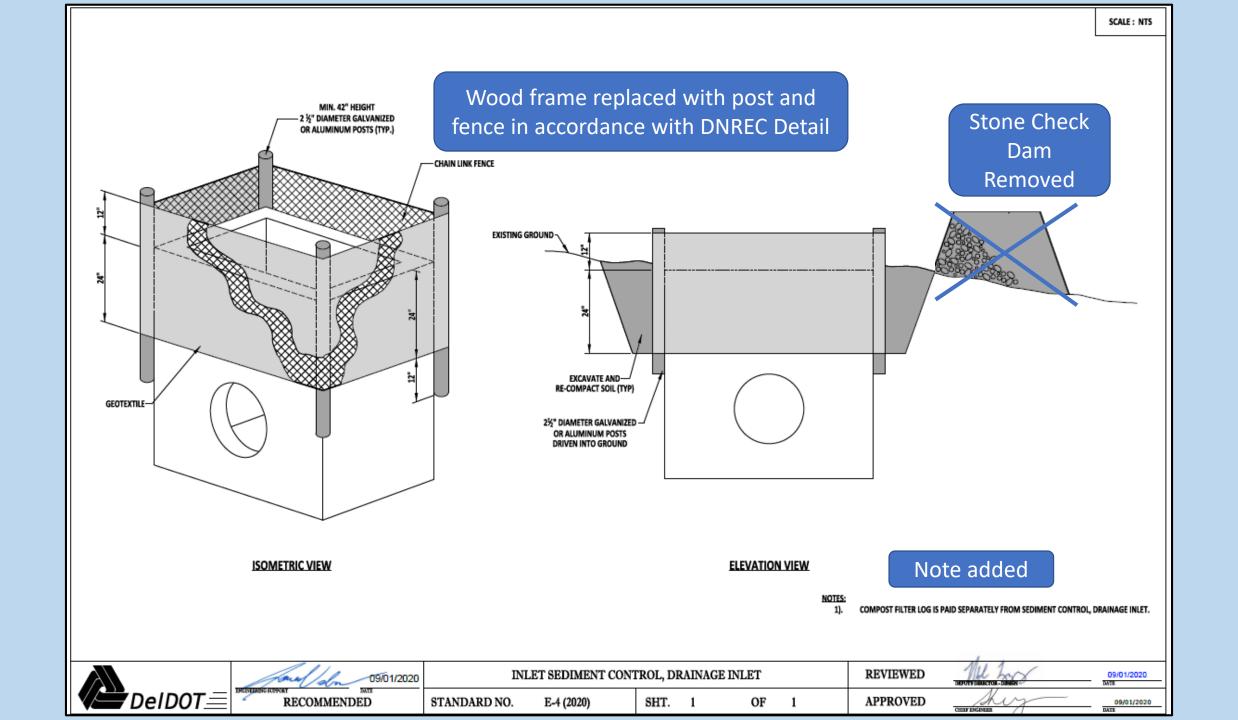
- **E-11 Incremental Stabilization** Contract plans and duration will determine stabilization requirement.
- **E-12 Erosion Control Blanket Applications** From APL. Installed per Manufacturer's recommendations.
- **E-13 Turf Reinforcement Mat Applications** From APL. Installed per Manufacturer's recommendations.

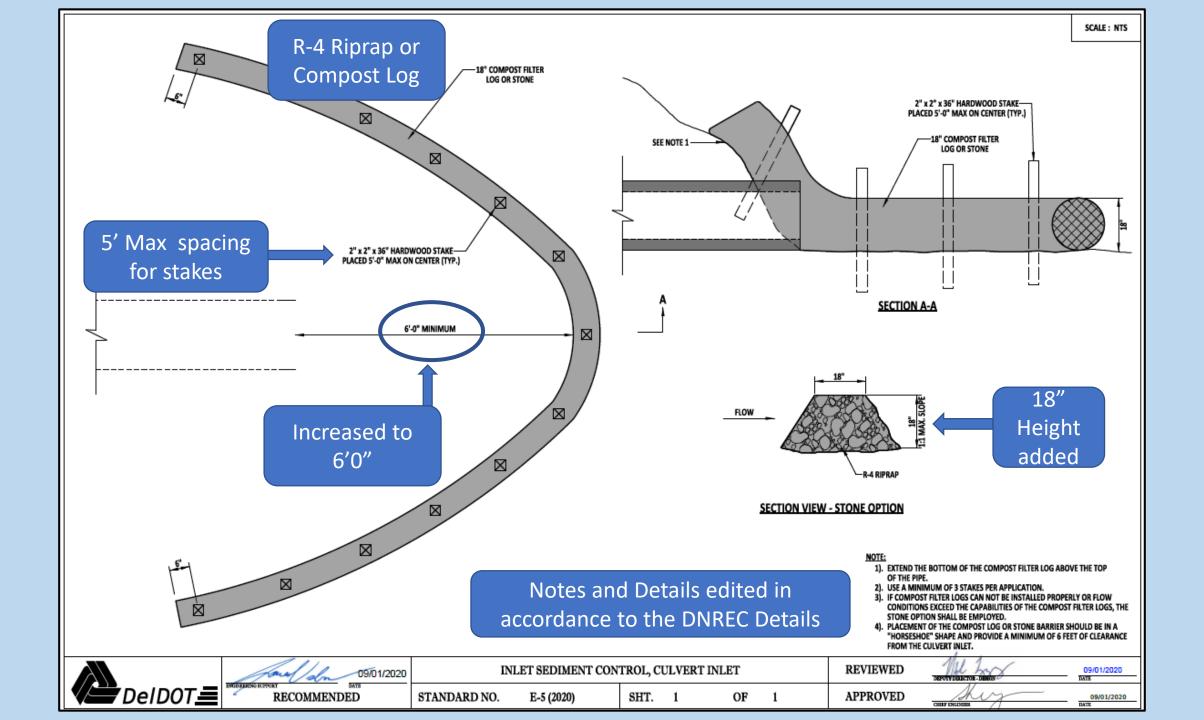


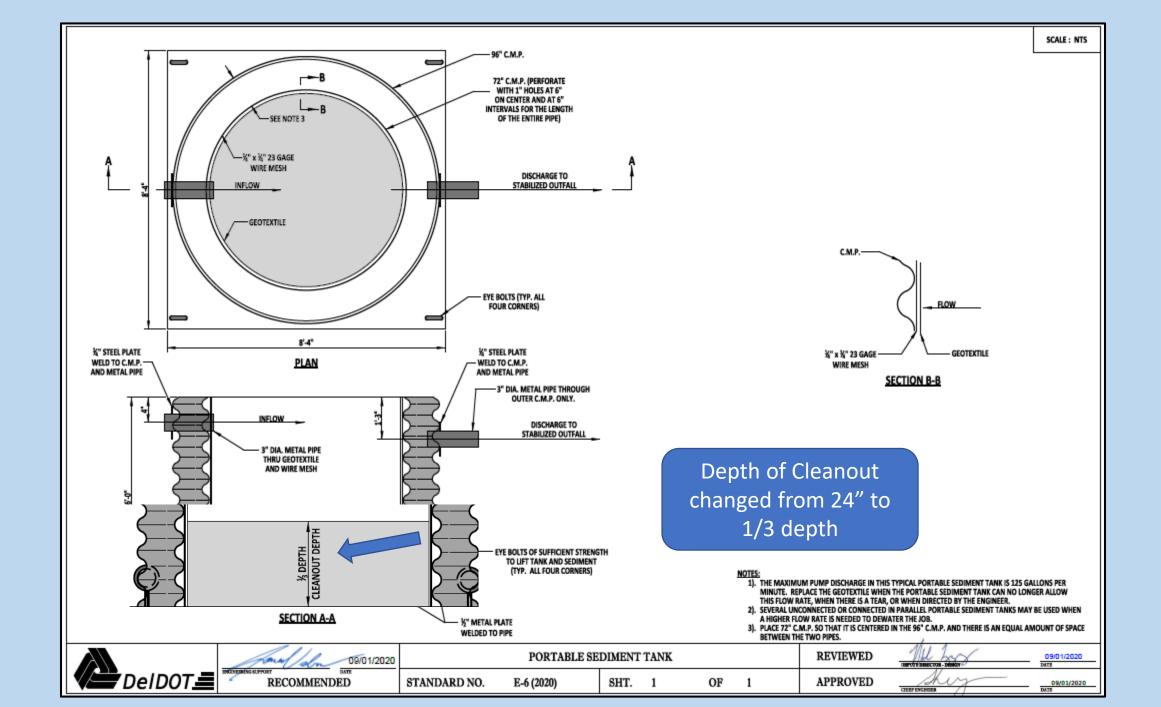


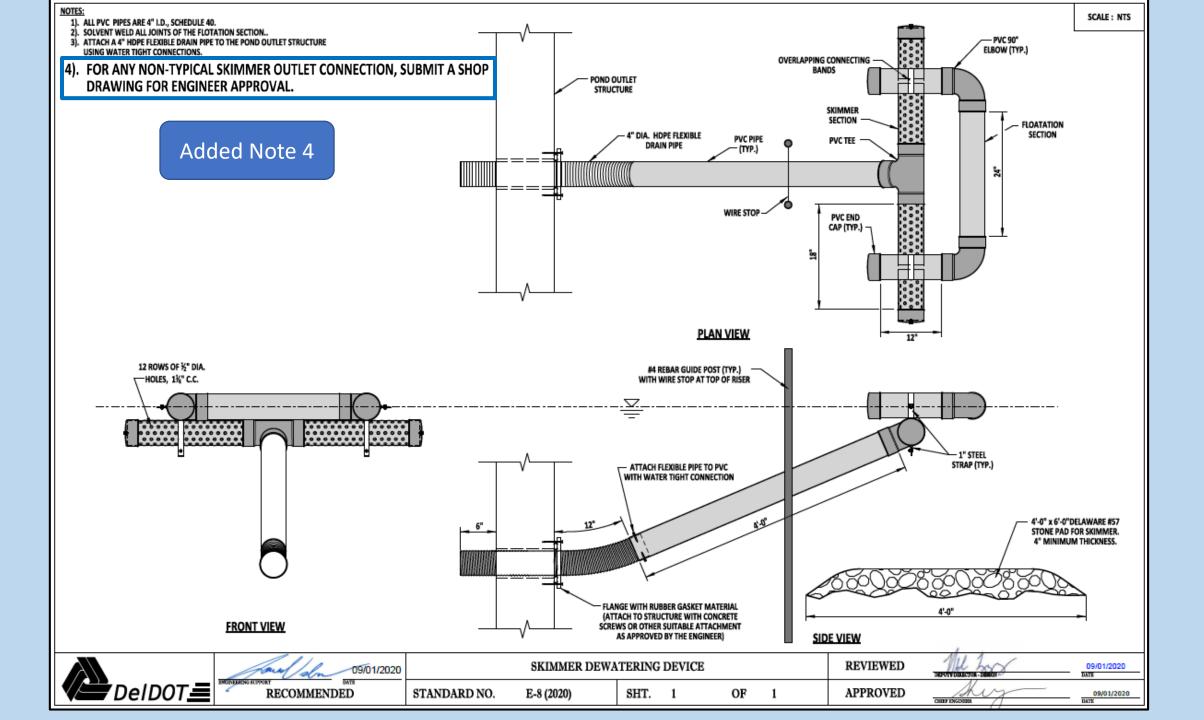


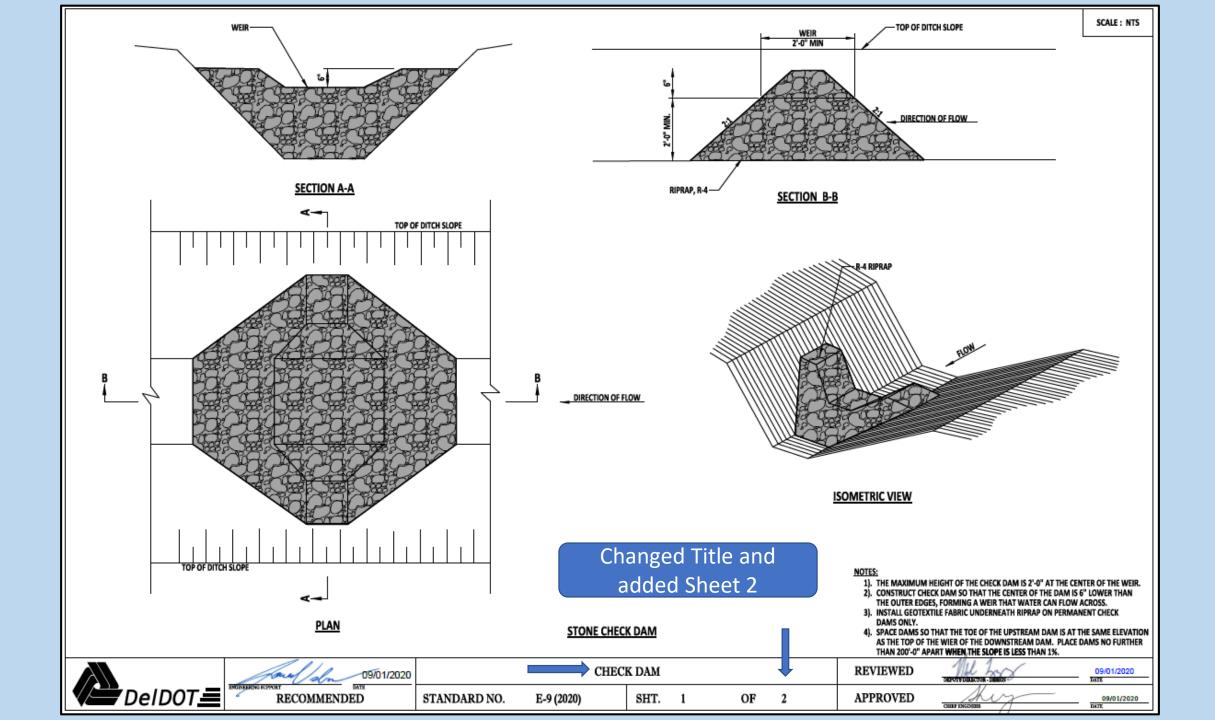




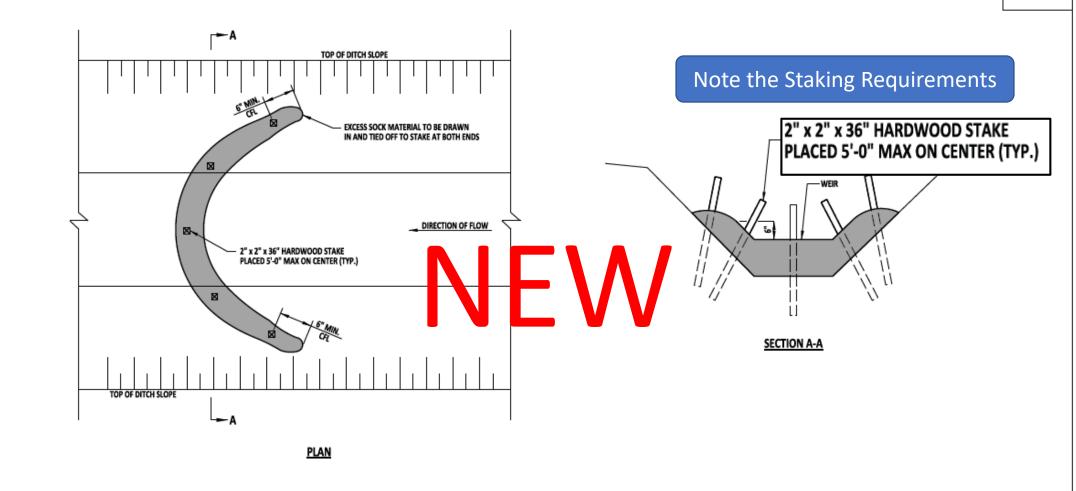










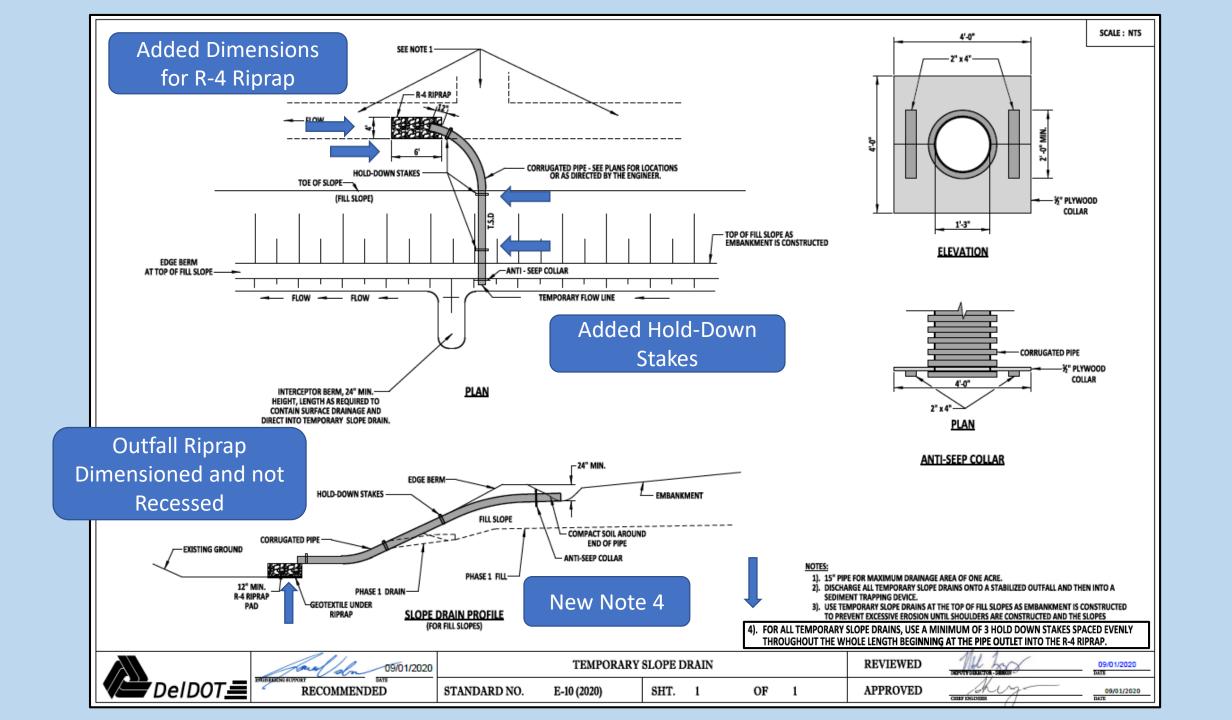


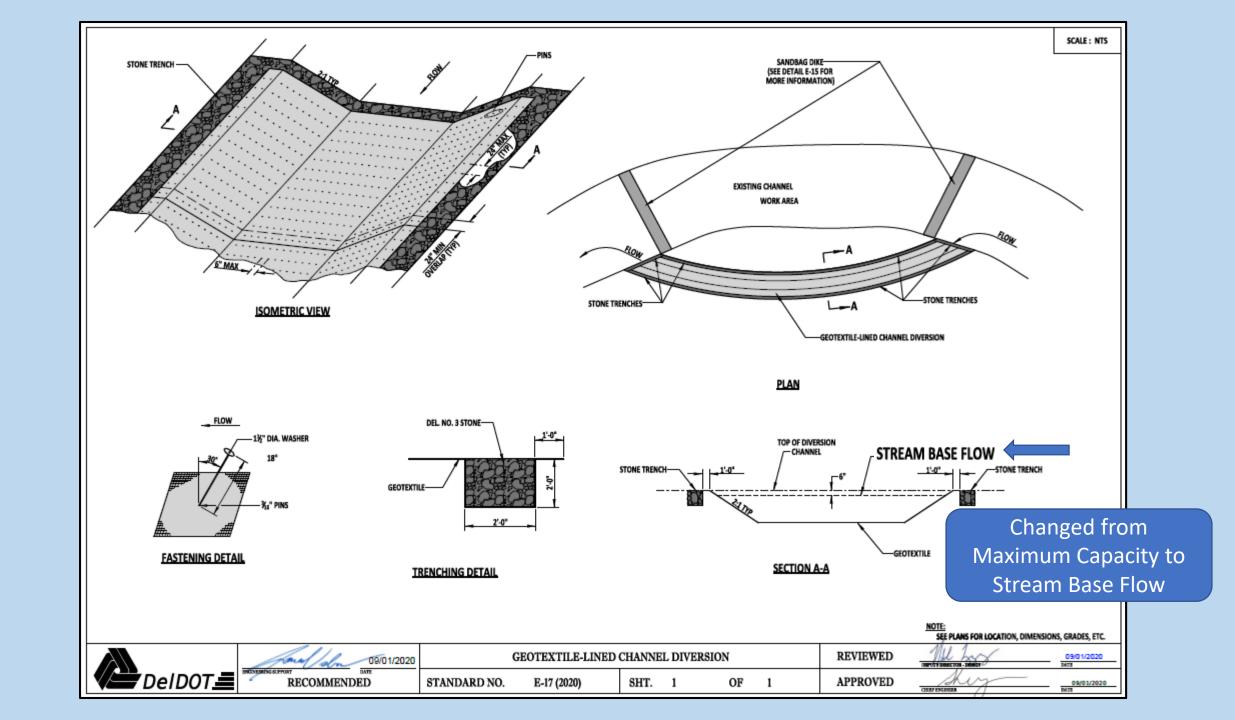
COMPOST FILTER LOG CHECK DAM

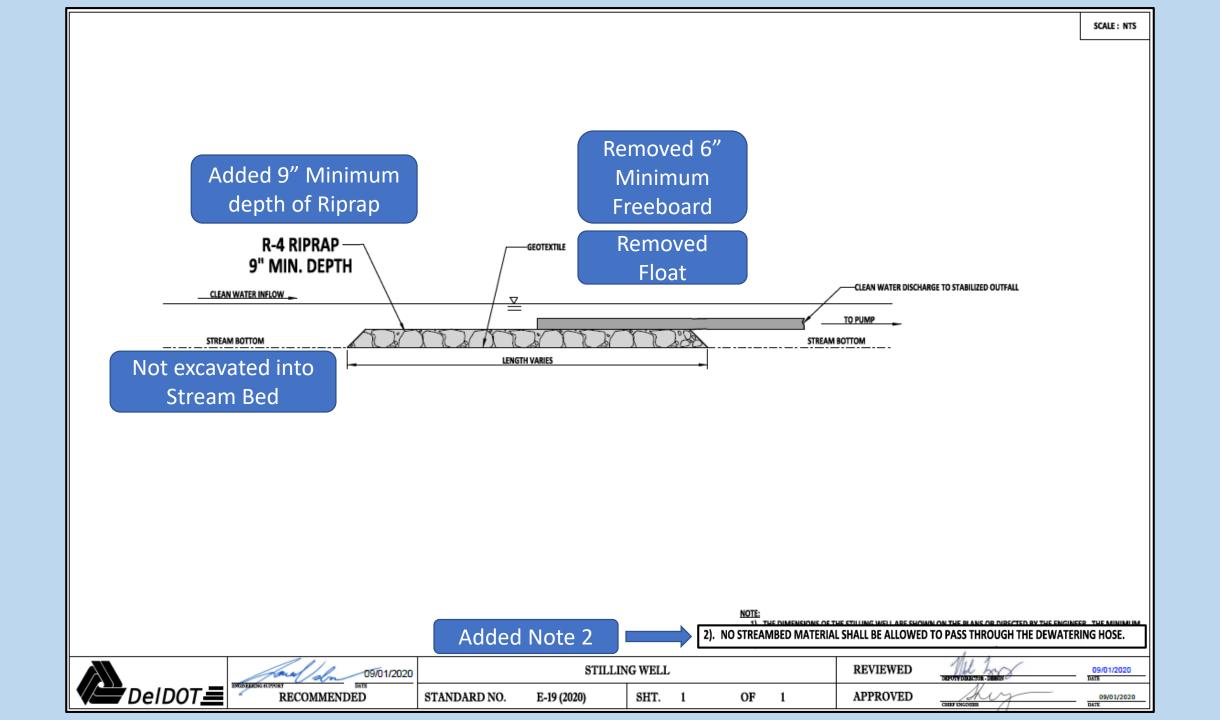
.

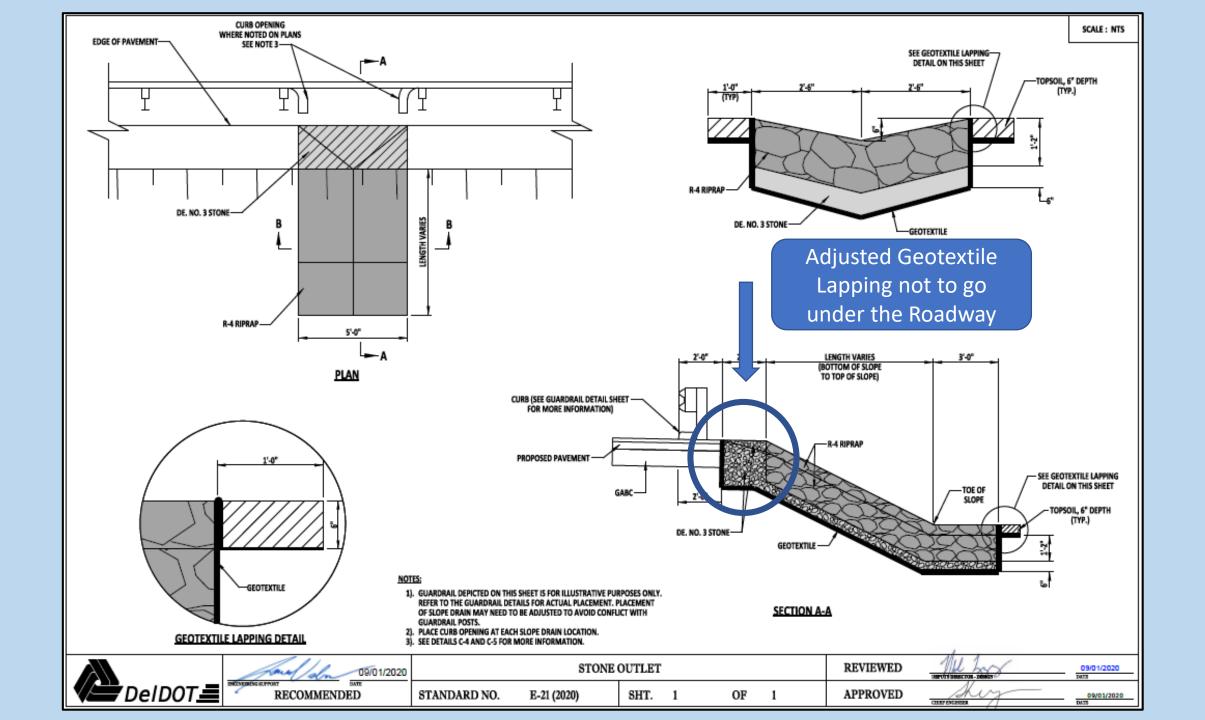
- THE MAXIMUM HEIGHT OF THE CHECK DAM IS 2"-0" AT THE CENTER OF THE WEIR.
 CONSTRUCT CHECK DAM SO THAT THE CENTER OF THE DAM IS 6" LOWER THAN
 THE OUTER EDGES, FORMING A WEIR THAT WATER CAN FLOW ACROSS. THE ENDS
 OF THE COMPOST FITTER LOG SHALL WRAP UPSLOPE TO PREVENT END CUTTING.
- SPACE DAMS SO THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE WIER OF THE DOWNSTREAM DAM. PLACE DAMS NO FURTHER THAN 200'-0" APART WHEN THE SLOPE IS LESS THAN 1%.

DelDOT <u></u>	Jan 09/01/2020	CHECK DAM					REVIEWED	DESCRIPTION DESCRIPTION OF THE PROPERTY OF THE	09/01/2020	
V DeIDOT ■	RECOMMENDED	STANDARD NO.	E-9 (2020)	SHT.	2	OF	2	APPROVED	CHIEF ENGLISHER	09/01/2020 DATE







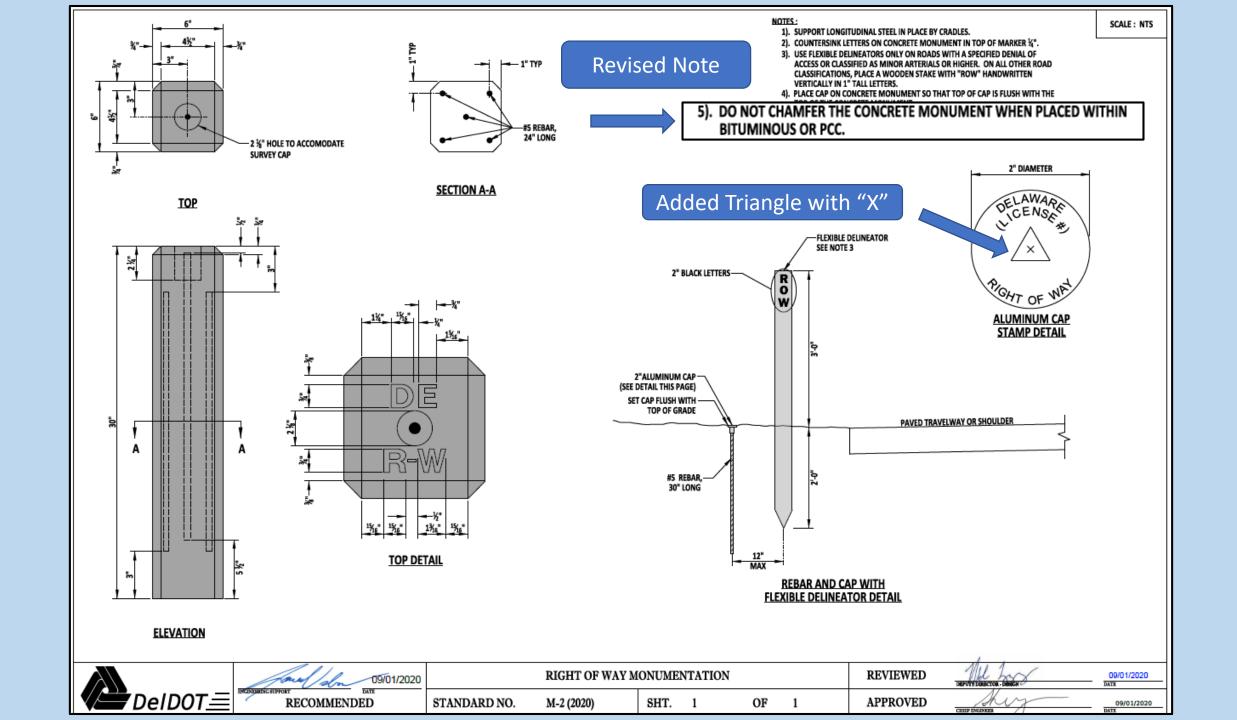


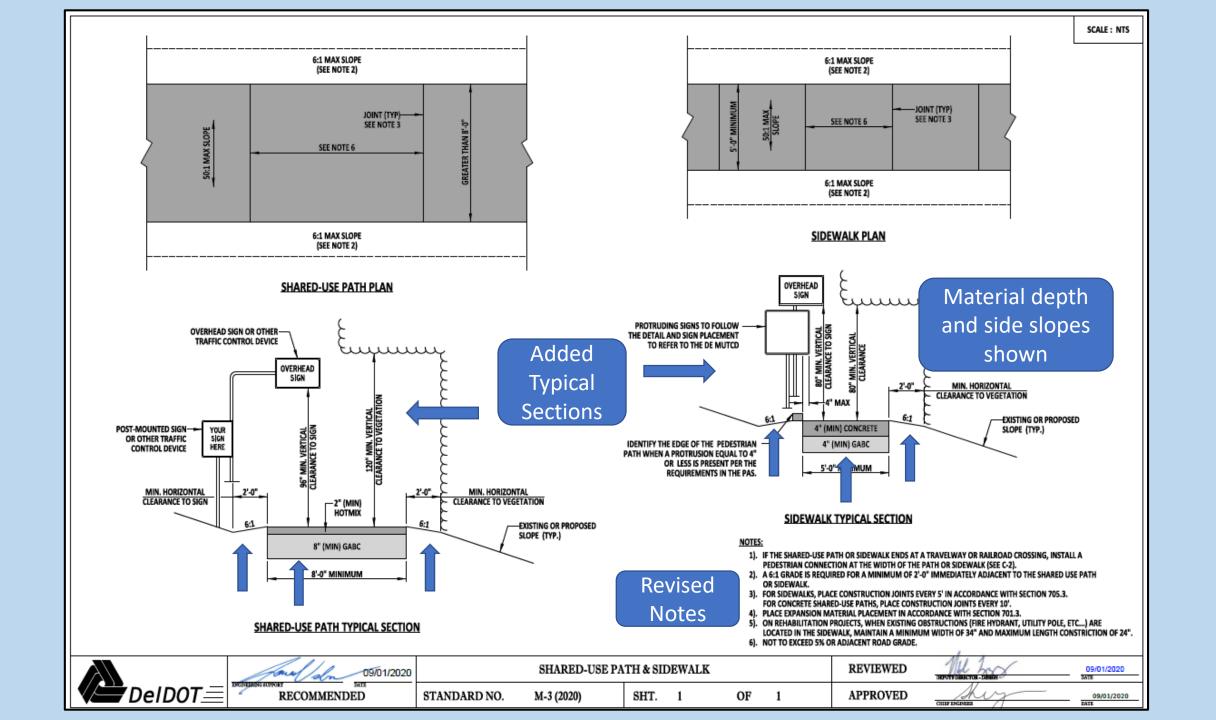
Section VI: Miscellaneous

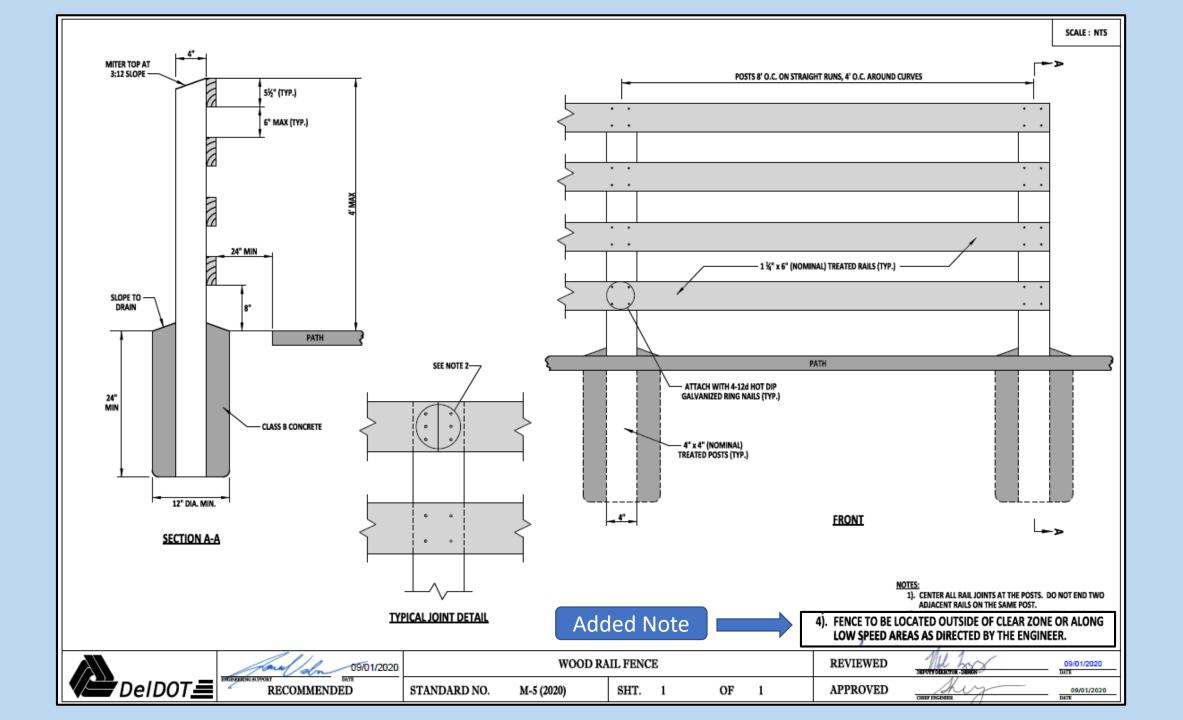
Revised Standard Details

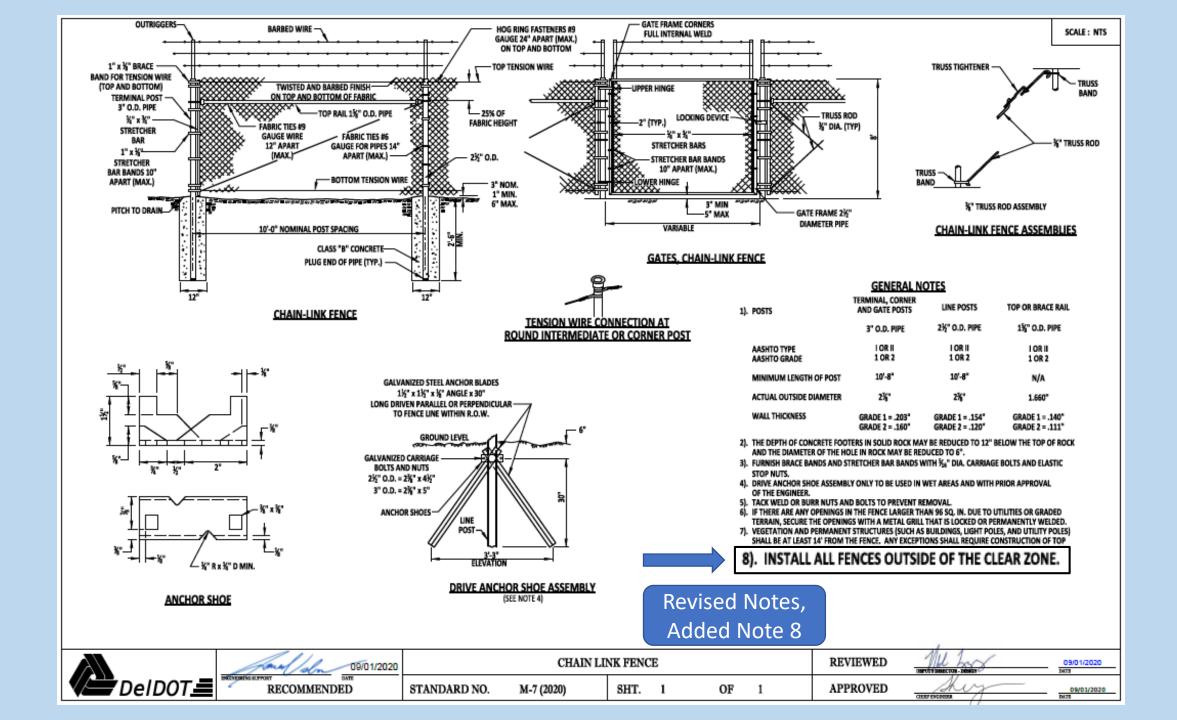
- M-2 Right of Way Monumentation
- M-3 Shared-Use Path & Sidewalk
- M-5 Wood Rail Fence
- M-7 Chain Link Fence
- M-9 Bus Stop Pad, Types 1,2, & 3, Bus Stop Pad with Shelter, Types 1 & 2
- M-12 Driveway Transverse Slope Grading
- M-13 Temporary Pedestrian Pathway NEW

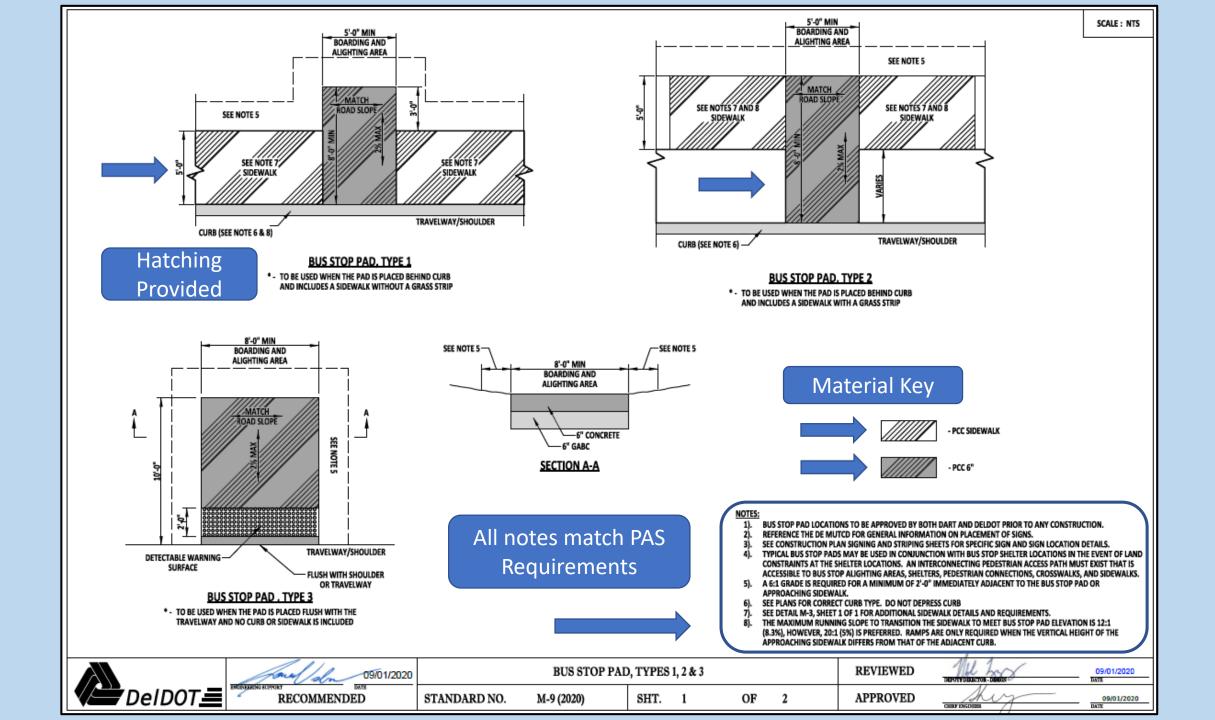
.

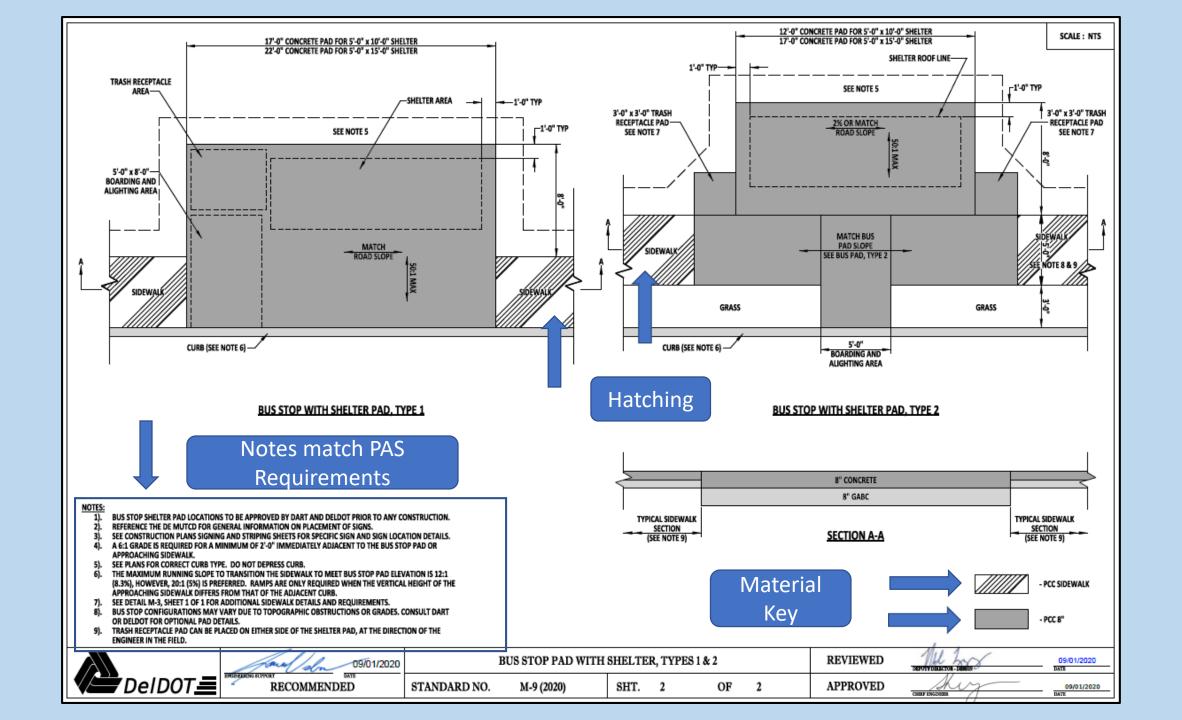


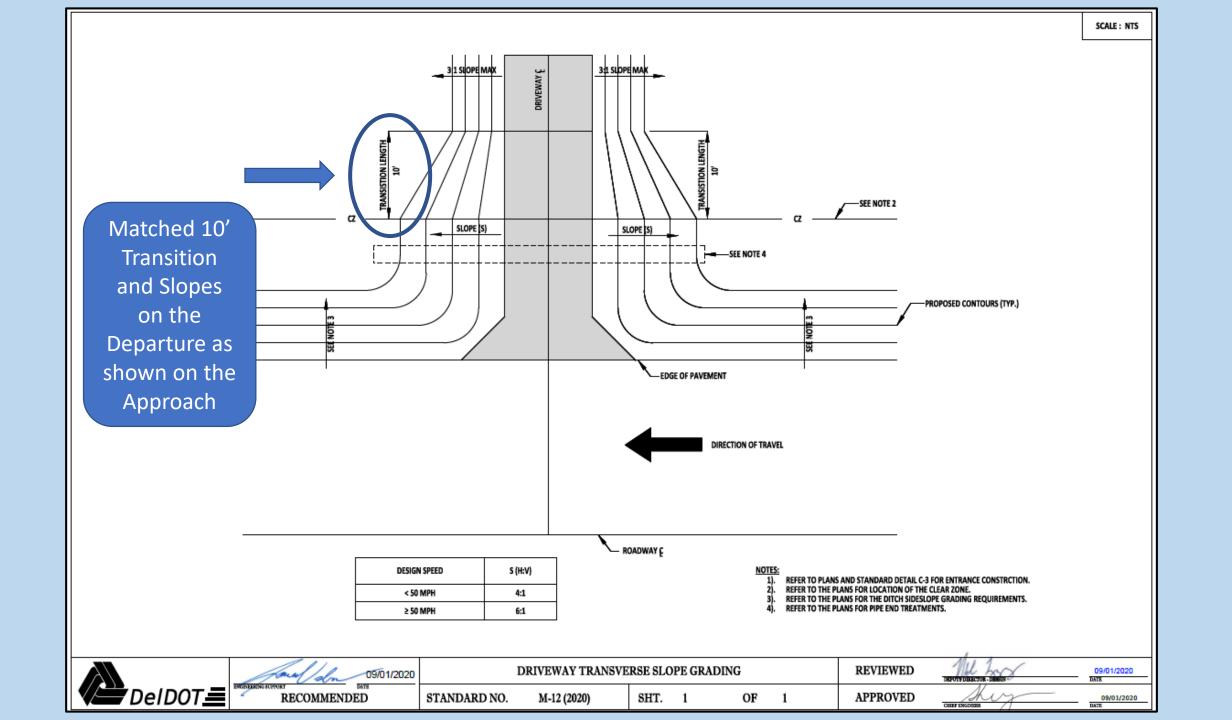




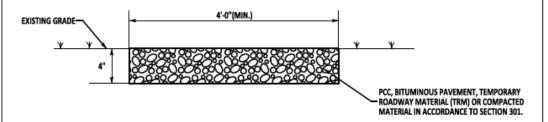








New Detail based on Section 301 of the Standard Specifications

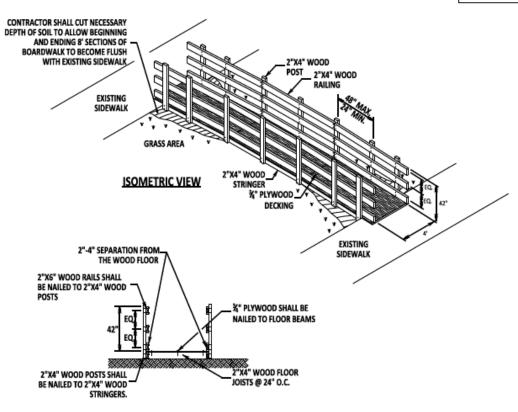


TEMPORARY PEDESTRIAN PATHWAY



NOTES-

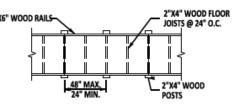
- PROVIDE 4'-0" WIDE TEMPORARY PATHWAY, SUPPLY CONCRETE, HOTMIX, COLD PATCH OR MILLINGS TO A MINIMUM DEPTH OF 4", FLUSH WITH EXISTING GRADE.
- 2. MAINTAIN A UNIFORM MATERIAL THAT IS FIRM, STABLE, AND SLIP RESISTANT.
- IN THE EVENT THAT THE WALKING SURFACE OF THE TEMPORARY SIDEWALK IS LOCATED MORE THAN 30° FROM GRADE AT ANY POINT ALONG THE PROPOSED PATH, PROVIDE TYPE 2 TEMPORARY SIDEWALK.
- 4. MAXIMUM ALLOWABLE RUNNING SLOPE NOT TO EXCEED 5%. MAXIMUM ALLOWABLE CROSS SLOPE NOT TO EXCEED 2% AND VERTICAL SURFACES NOT TO EXCEED 1/4". FURTHER GUIDANCE IN ACCORDANCE WITH THE LATEST VERSION OF THE PEDESTRIAN ACCESSIBILITY STANDARDS FOR FACILITIES IN THE PUBLIC RIGHT-OF-WAY.
- 5. ANY REQUIRED EXCAVATION TO CONSTRUCT THE PATHWAY IS INCIDENTAL TO
- 6. COST FOR SEEDING REQUIRED TO RESTORE THE AREA IS PAYABLE BY THE DEPARTMENT.



SECTION VIEW

HOTES

- MAXIMUM ALLOWABLE RUNNING SLOPE NOT TO EXCEED 5%.
 MAXIMUM ALLOWABLE CROSS SLOPE NOT TO EXCEED 2% AND
 VERTICAL SURFACES NOT TO EXCEED 1/4". FURTHER GUIDANCE IN
 ACCORDANCE WITH THE LATEST VERSION OF THE PEDESTRIAN
 ACCESSIBILITY STANDARDS FOR FACILITIES IN THE PUBLIC
 RIGHT-OF-WAY.
- MAINTAIN A UNIFORM MATERIAL THAT IS FIRM, STABLE, AND SLIP RESISTANT.



PLAN VIEW

TEMPORARY SIDEWALK DETAIL - TYPE 2



DATE DATE

TEMPORARY PEDESTRIAN PATHWAY

REVIEWED

09/01/2020

SCALE: NTS

RECOMMENDED STANI

STANDARD NO.

M-13 (2020)

SHT. 1

OF

APPROVED

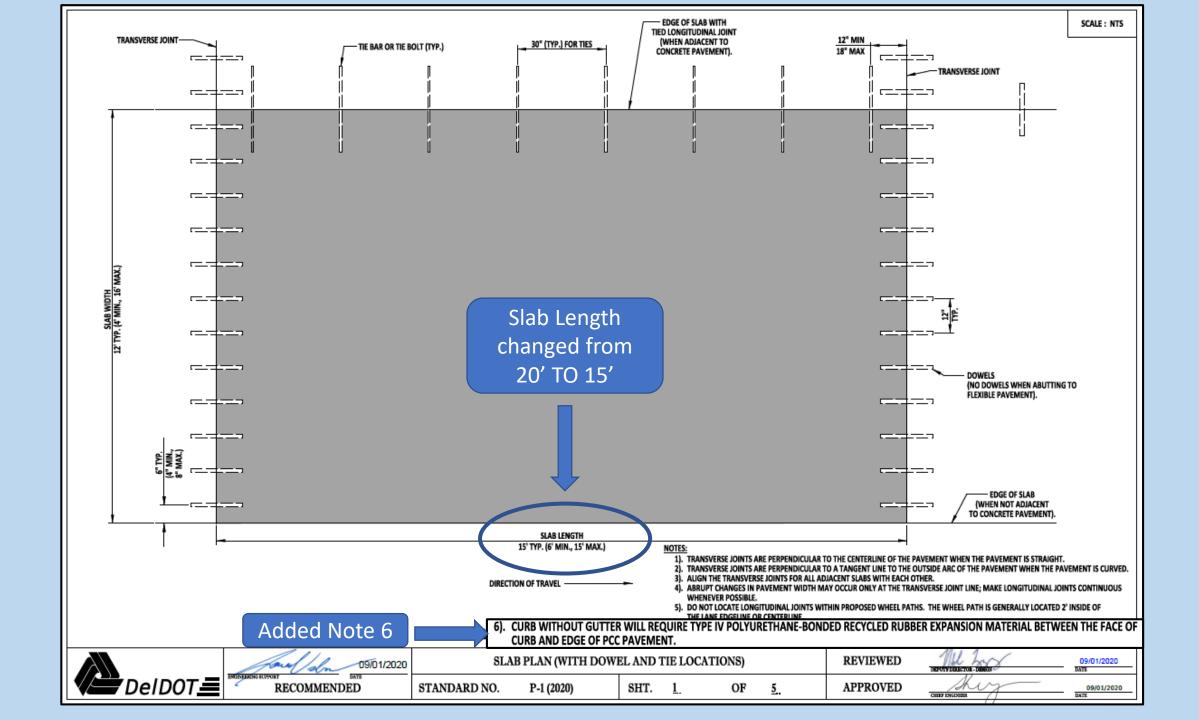
09/01/2020

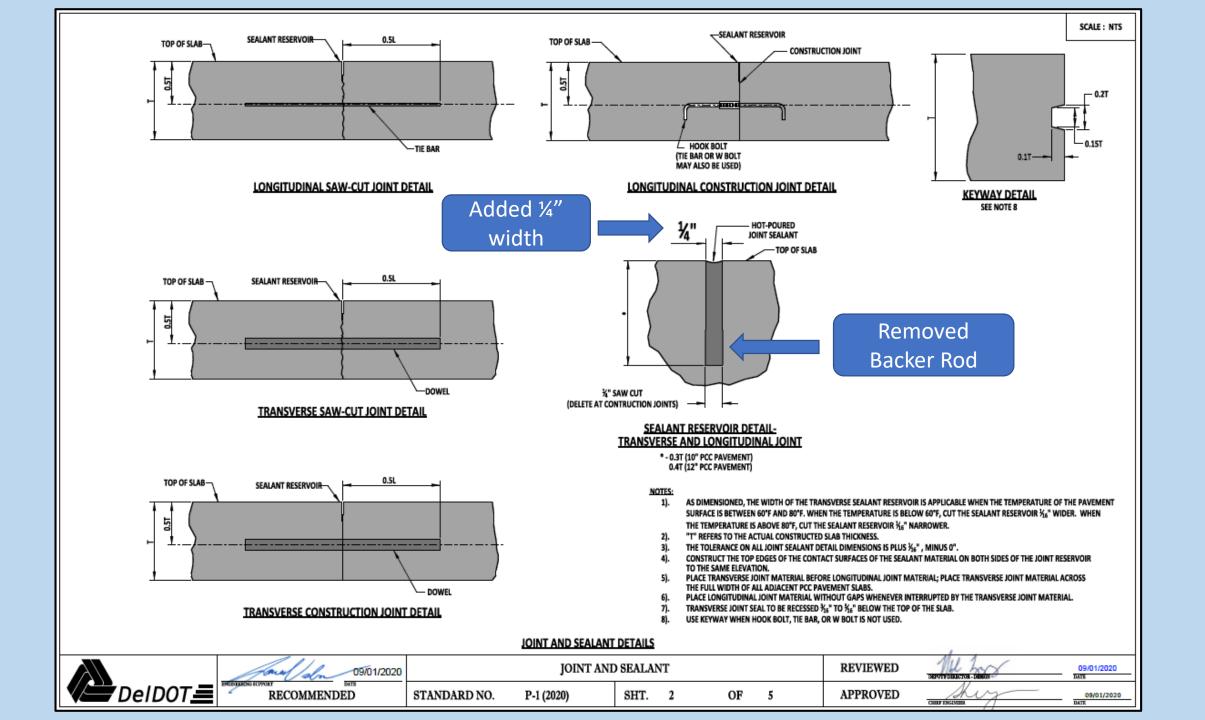
Section VII: Pavement

Revised Standard Details

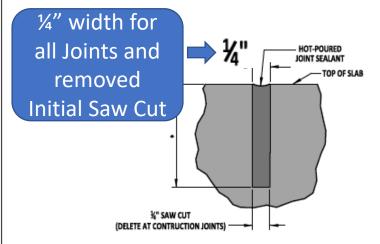
- P-1 Slab Plan (with Dowel and Tie Locations), Joint and Sealant
- P-2 Full Depth Patch, Sealant, Grout Retention Disk, and Dowel Bars
- P-4 Permanent Cross-Road Patch over Pipe Trench
- P-6 Pavement Safety Edge

•









Combined Transverse and Longitudinal Joint into one Detail

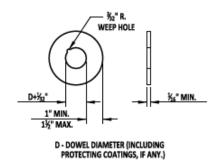
Added Dowel Bar Chart



DOWEL BAR CHART				
SLAB	DOWEL			
THICKNESS	D	L		
10"	1½"	18"		
12"	1½"	20"		

SEALANT RESERVOIR DETAIL-TRANSVERSE AND LONGITUDINAL JOINT

* - 0.3T (10" PCC PAVEMENT) 0.4T (12" PCC PAVEMENT)



GROUT RETENTION DISK

- AS DIMENSIONED, THE WIDTH OF THE TRANSVERSE SEALANT RESERVOIR IS APPLICABLE WHEN THE TEMPERATURE OF THE PAVEMENT SURFACE IS BETWEEN 60°F AND 80°F. WHEN THE TEMPERATURE IS BELOW 60°F, CUT THE SEALANT RESERVOIR
- THE TOLERANCE ON ALL JOINT SEALANT DETAIL DIMENSIONS SHOWN WITHOUT A RANGE IS PLUS 1/4, MINUS 0".
- CONSTRUCT THE TOP EDGES OF THE CONTACT SURFACES OF THE SEALANT MATERIAL ON BOTH SIDES OF THE JOINT RESERVOIR

REVIEWED

DOWEL BAR

FULL DEPTH PATCH



09/01/2020 RECOMMENDED

STANDARD NO. P-2 (2020)

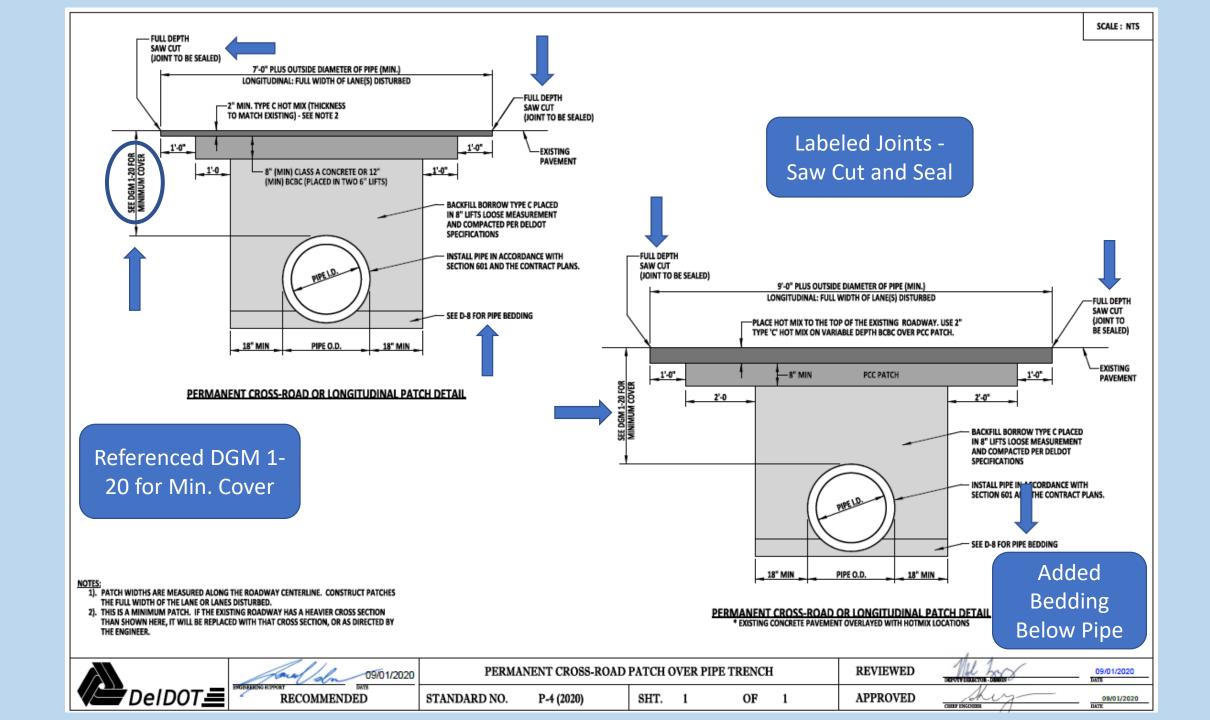
FULL DEPTH PATCH, SEALANT, GROUT RETENTION DISK AND DOWEL BARS

SHT. 3

APPROVED OF

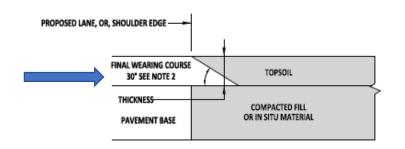
09/01/2020

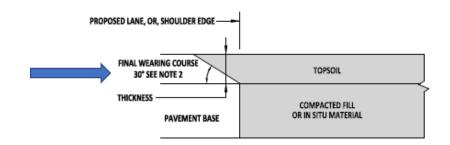
09/01/2020



WHERE LANE WIDTH ≤11' OR SHOULDER WIDTH ≤5'

WHERE LANE WIDTH ≥11' OR SHOULDER WIDTH ≥5'





Added Final Wearing Course and reference to Note 2

THICKNESS OF SAFETY EDGE CONCRETE PAVEMENT BITUMINOUS CONCRETE >1指" PAVEMENT FINAL WEARING COURSE

Added to Chart

NOTE:

- 1). LEVEL COMPACTED FILL OR IN-SITU MATERIAL WITH THE PAVEMENT BASE PRIOR TO FINAL BITUMINOUS CONCRETE PAVING LIFT.
- 2). ANGLE ALLOWANCE OF 26° MINIMUM TO 40° MAXIMUM.



Revised Note 1

Added Note 2



RECOMMENDED

09/01/2020

STANDARD NO. P-6 (2020)

PAVEMENT SAFETY EDGE

SHT. 1

OF

APPROVED

REVIEWED

Section VIII: Traffic

Revised Standard Details

- T-1 Conduit Junction Well, Type 7 NEW
- T-4 Cabinet Bases, Types M, K, & F and Types P & R
- T-5 Pole Bases
- **T-9** Wiring Installation Typicals

Removed From Standard Details

- **T-3 Conduit Junction Well, Type II** Junction well types 11, 14, and 15 were removed.
- **T-6 Special Pole Base** Special pole bases removed.
- **T-7 Sign Foundation** Detail currently in review, look for updates.
- **T-13 Conduit Junction Well, Type 7** Conduit junction wells were relocated and edits made to Type 7.



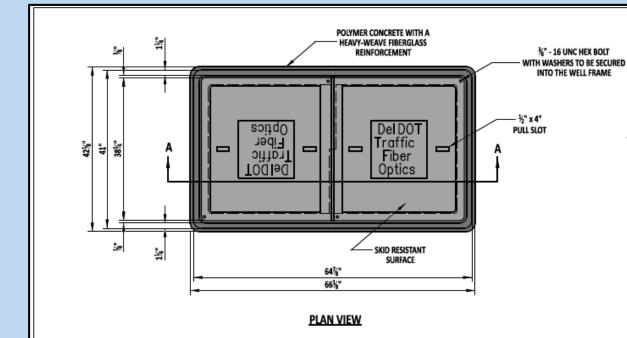
Section VIII: Traffic

Added to Standard Details

- **T-12 Attachment Between Poles**
- T-16 Permanent Wood Barricade
- **T-17** Electrical Service Pedestal Signal & ITS Component Installations
 - 100 Amp (3+ Devices)
 - 100 Amp (Condensed)
 - 100 Amp (Up to 2 Devices)
 - 200 Amp Standard Lighting Component Installations
 - Lighting Component Installations (12 or Less Fixtures)
- T-18 Pedestrian Pushbutton Location Assembly Location on Pole
- **T-18 Pedestrian Pushbutton Location Sign Attachment**







NOTES:

- 1). TYPE 7 CONDUIT JUNCTION WELL SHALL BE PRECAST POLYMER CONCRETE.
- ALL CONDUIT JUNCTION WELLS CONSTRUCTED WITHIN PAVEMENT, SIDEWALKS, ETC. WILL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAYED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM THE CONDUIT JUNCTION WELL.
- POLYMER CONCRETE COVERS SHALL BE THE HEAVY DUTY TYPE WITH A DESIGN LOAD OF 15,000 LBS OVER A 10" SQUARE.
- AREA AROUND THE JUNCTION WELL SHALL BE BACKFILLED WITH BORROW TYPE C MATERIAL
 TO THE REQUIRED ELEVATION IN ACCORDANCE WITH SECTION 207. EXCESS AND UNSUITABLE
 MATERIAL SHALL BE DISPOSED PER SECTION 106.8.

Note 4 added to all Conduit Junction Wells

POLYMER TONGUE AND GROOVE HAND GRIPS (2X) 1" MIN 3" MAX GALV. CONDUIT BUSHING DEL. 57 STONE HAND GRIPS (2X) 1" MIN 3" MAX NONMETALLIC CONDUIT To

NEW

DelDOT

FINISHED GRADE

09/01/2020
ANDIENT BATE
RECOMMENDED

47" x 71" SECTION A-A

CONDUIT JUNCTION WELL, TYPE 7

FINISHED GRADE (PAVEMENT) —

REVIEWED

TY DURICTOR - DESIGN

09/01/2020 MTK

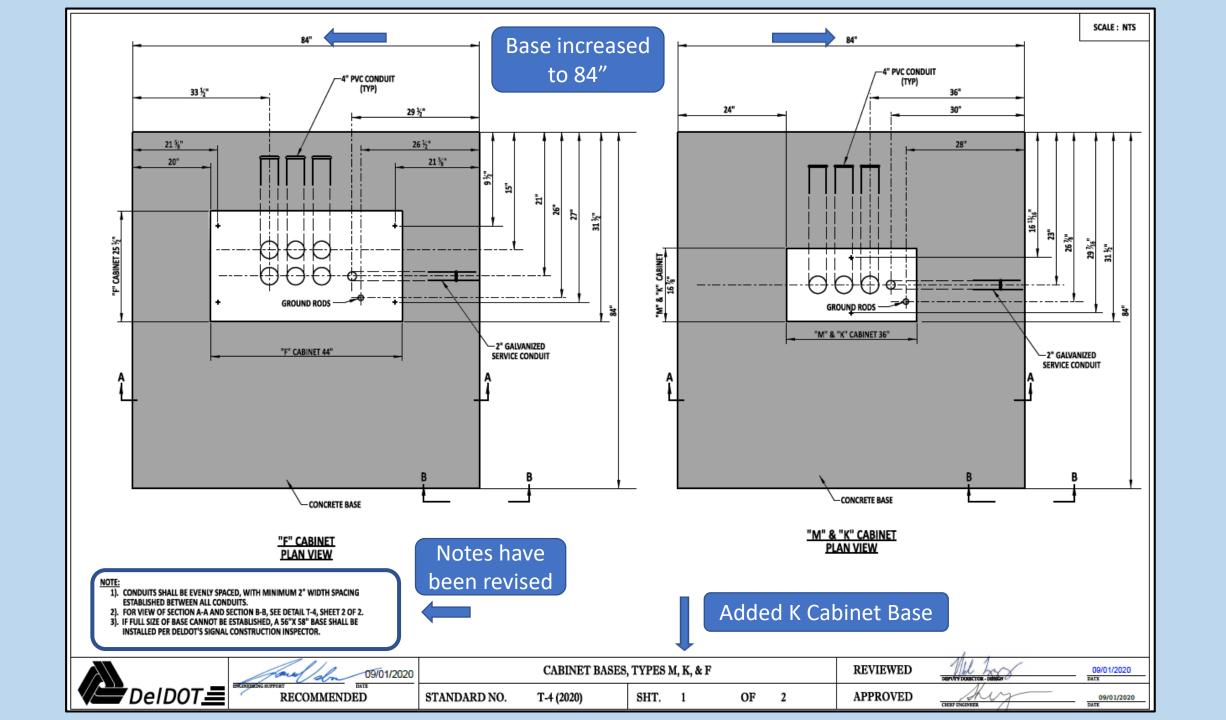
09/01/2020 DATE

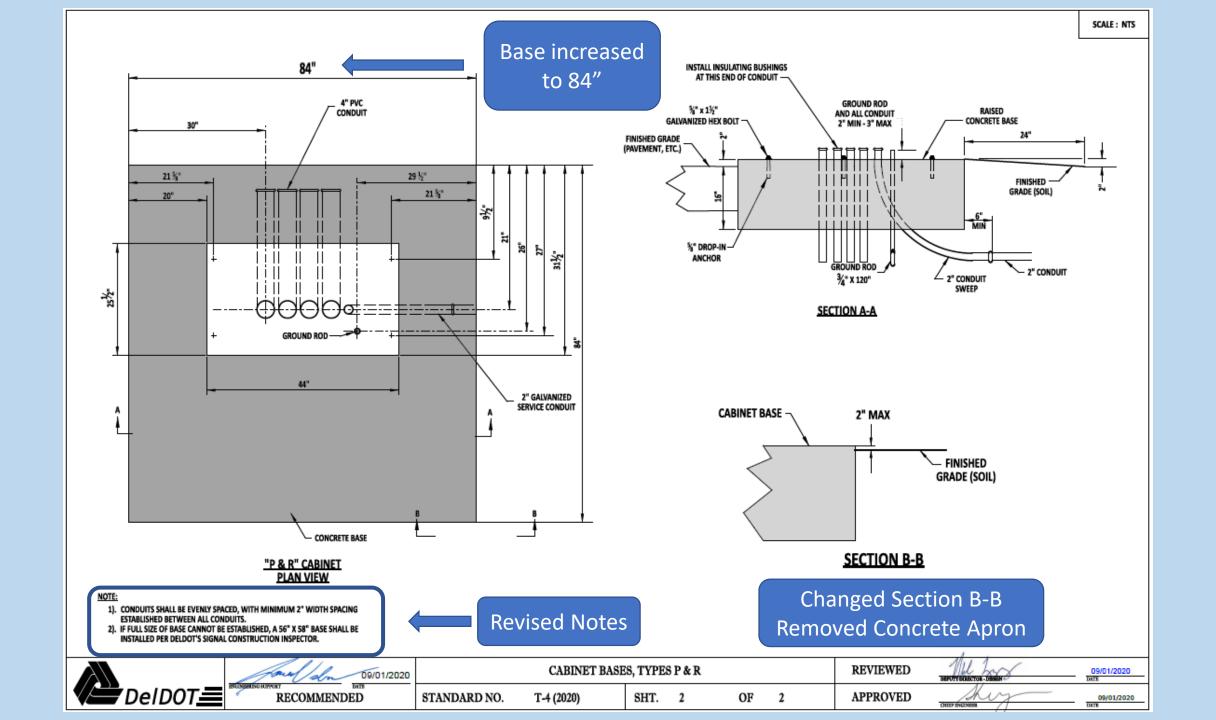
STANDARD NO. T-1 (2020)

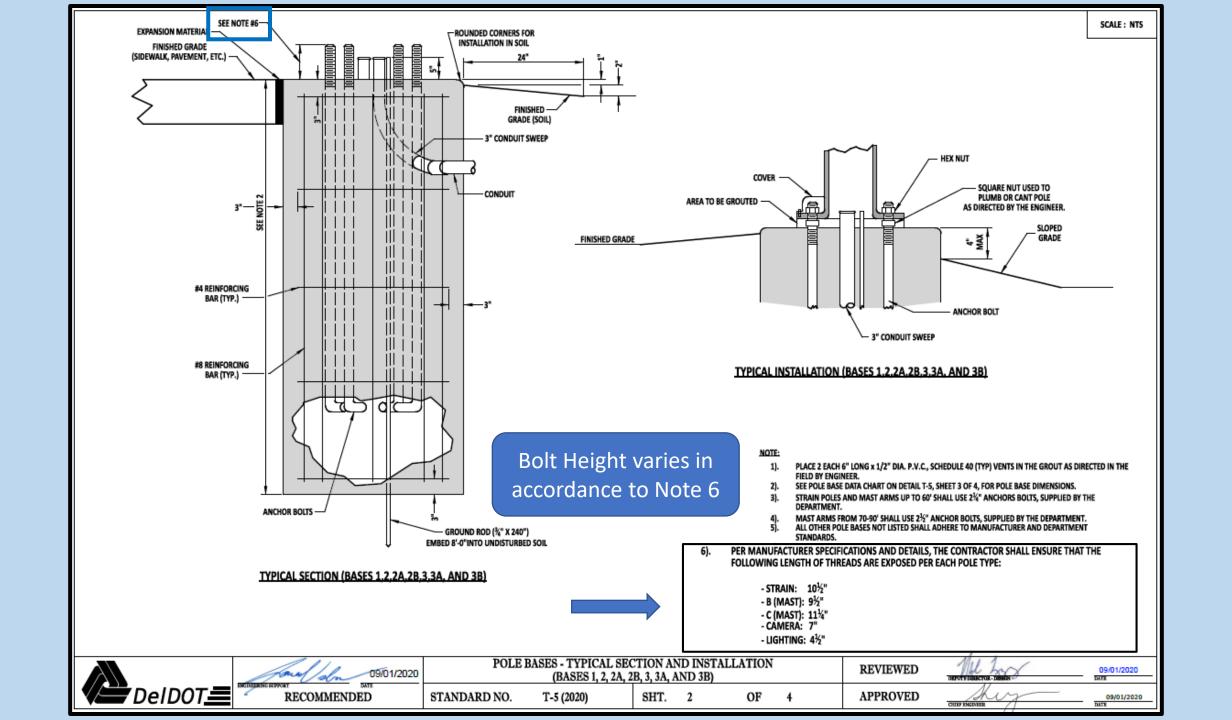
SHT. 4

OF

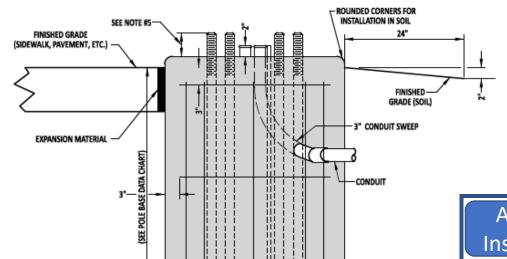
APPROVED



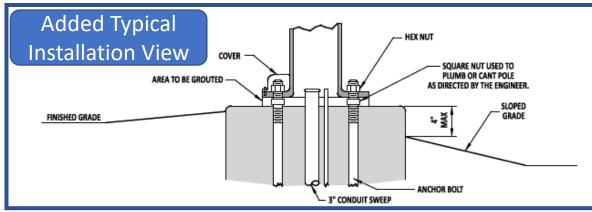








	POLE BASE DATA CHART						
POLE BASE TYPE #	DIAMETER	DEPTH	#5 HORIZONTAL REINFORCING BARS	#8 VERTICAL REINFORCING BARS	CONDUITS		
1	36"	7'-0"	5	8	2-3"		
2	36"	10'-0"	6	8	2-3"		
2A	48"	8'-0"	5	8	2-3"		
2B	60"	7'-0"	5	8	2-3"		
3	48"	10'-0"	14	17	2-3"		
3A	48"	12'-0"	17	17	2-3"		
3B	48"	15'-0"	21	17	2 - 3"		
3C	48"	20'-0"	27	17	2-3"		
4A & 4B	24"	2'-4"	NONE	NONE	2 - 2.5"		
6	24"	6'-0"	4	8	2-3"		



TYPICAL INSTALLATION (BASE 6)

ANCHOR BOLTS AND BOLT PATTERN FOR TYPE 6 POLE BASES TO BE PROVIDED BY THE MANUFACTURER. STRAIN POLES AND MAST ARMS UP TO 60' SHALL USE 21/4" ANCHORS BOLTS, SUPPLIED BY THE

MAST ARMS FROM 70-90' SHALL USE 21/2" ANCHOR BOLTS, SUPPLIED BY THE DEPARTMENT.

ALL OTHER POLE BASES NOT LISTED SHALL ADHERE TO MANUFACTURER AND DEPARTMENT

PER MANUFACTURER SPECIFICATIONS AND DETAILS, THE CONTRACTOR SHALL ENSURE THAT THE FOLLOWING LENGTH OF THREADS ARE EXPOSED PER EACH POLE TYPE:

- STRAIN: 10½"

- B (MAST): 91/2"

- C (MAST): 11%"

- CAMERA: 7"

- LIGHTING: 41/2"

MAXIMUM EXPOSED FOUNDATION DEPTH OF 4" AT FINISHED GRADE IN ANY ORIENTATION AROUND POLE BASE.



#5 REINFORCING BAR (TYP.)

#8 REINFORCING BAR (TYP.)

ANCHOR BOLTS -

(SEE NOTE)

09/01/2020 RECOMMENDED

TYPICAL SECTION (BASE 6)

POLE BASES - TYPICAL SECTION (BASE 6) AND POLE BASE DATA CHART

Added Notes

SHT. 3

REVIEWED

STANDARD NO. T-5 (2020)

GROUND ROD (%" x 240")

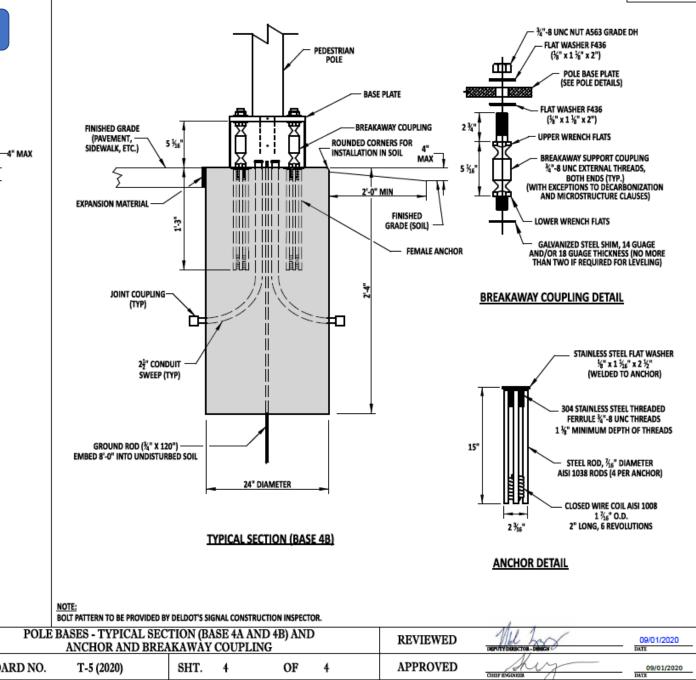
- EMBED 8'-0" INTO UNDISTURBED SOIL

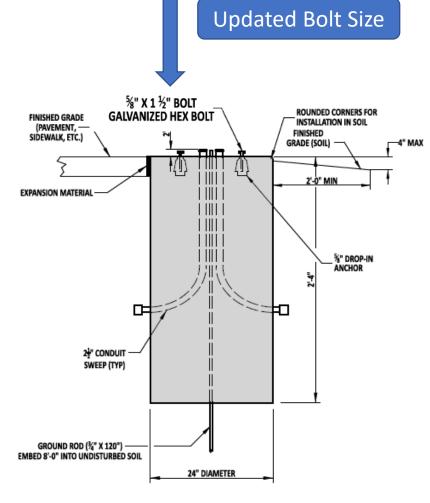
OF

APPROVED

09/01/2020







TYPICAL SECTION (BASE 4A)

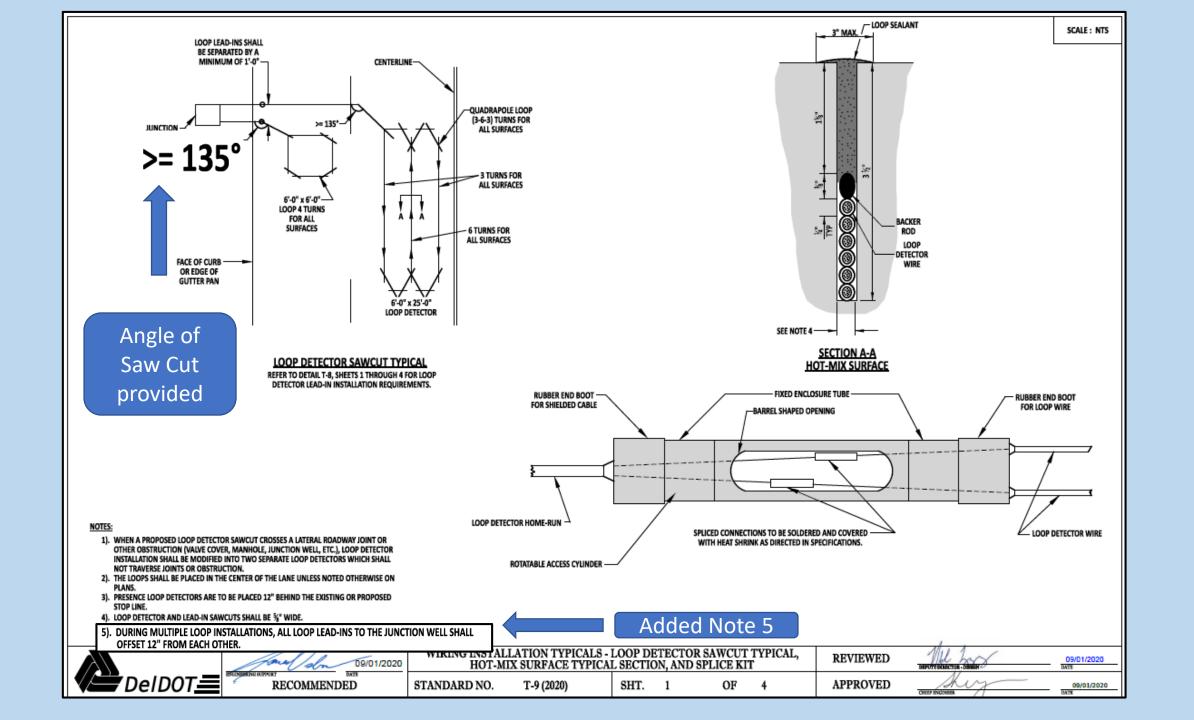
BOLT PATTERN TO BE PROVIDED BY DELDOT'S SIGNAL CONSTRUCTION INSPECTOR.

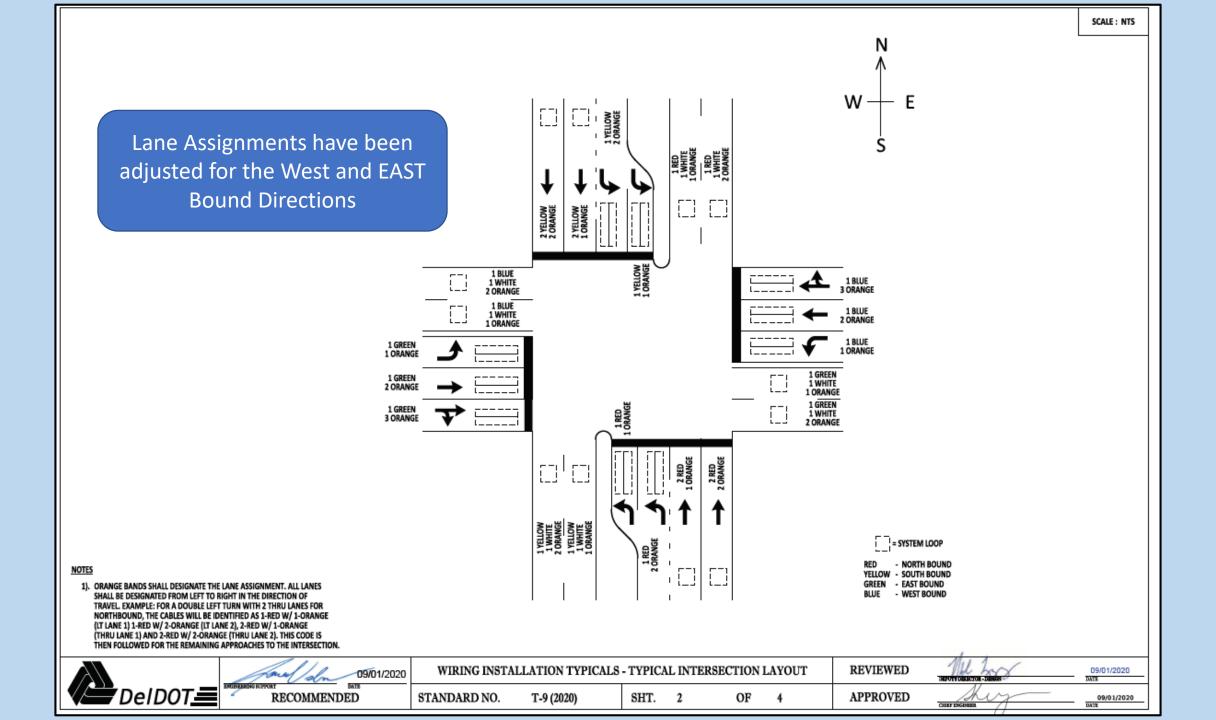
'DeIDOT<u></u>

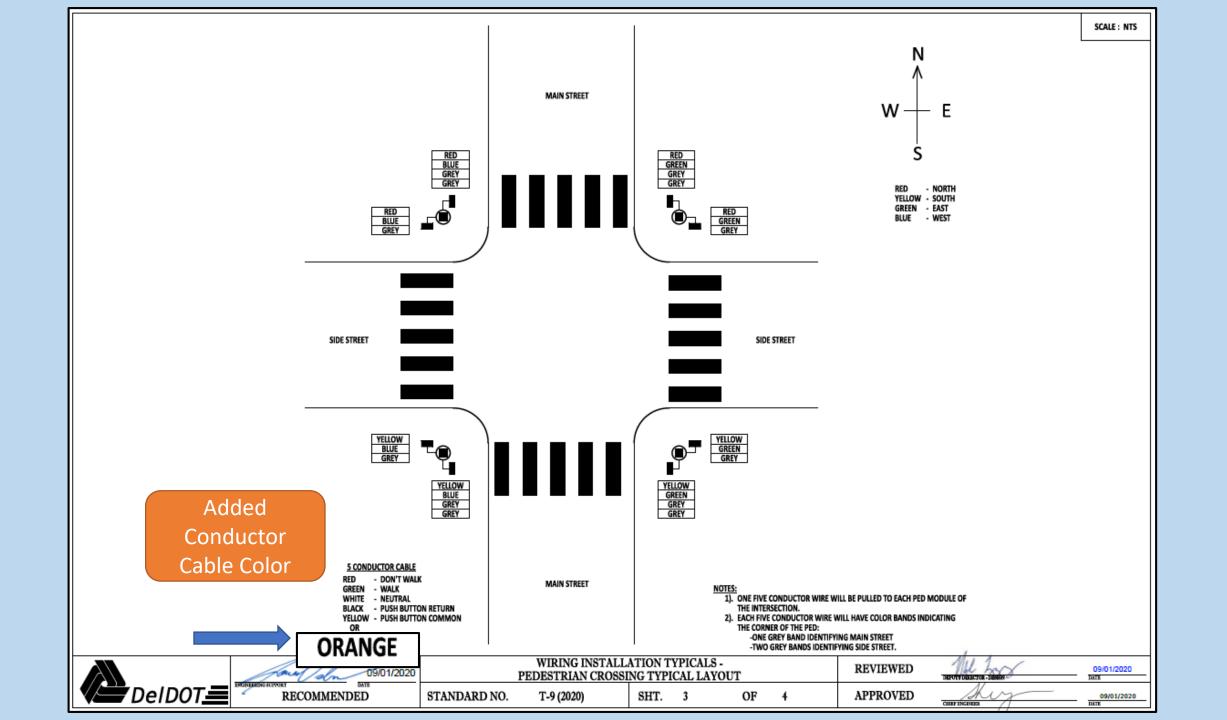
RECOMMENDED

09/01/2020

STANDARD NO.

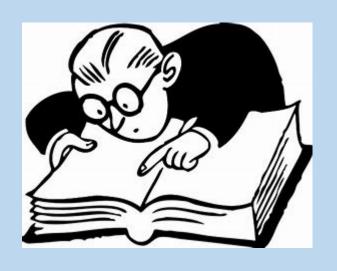






Too Much to Cover in One Presentation





KNOW THE STANDARD DETAILS!!

When questions arise, I can still hear my first boss.....

"What does the Spec say?"

"What does the Standard Detail show?"

