

# COLDWATER ROAD CONCRETE STREET REHABILITATION FROM COLISEUM BLVD. TO WASHINGTON CENTER RD. CITY OF FORT WAYNE, ALLEN CO. IN

**MAYOR**  
**HONORABLE THOMAS C. HENRY**

**THE BOARD OF PUBLIC WORKS**

ROBERT P. KENNEDY  
CHAIR

MIKE AVILA  
MEMBER

KUMAR MENON  
MEMBER

**COMMON COUNCIL REPRESENTATIVE**

TOM SMITH  
DISTRICT 1

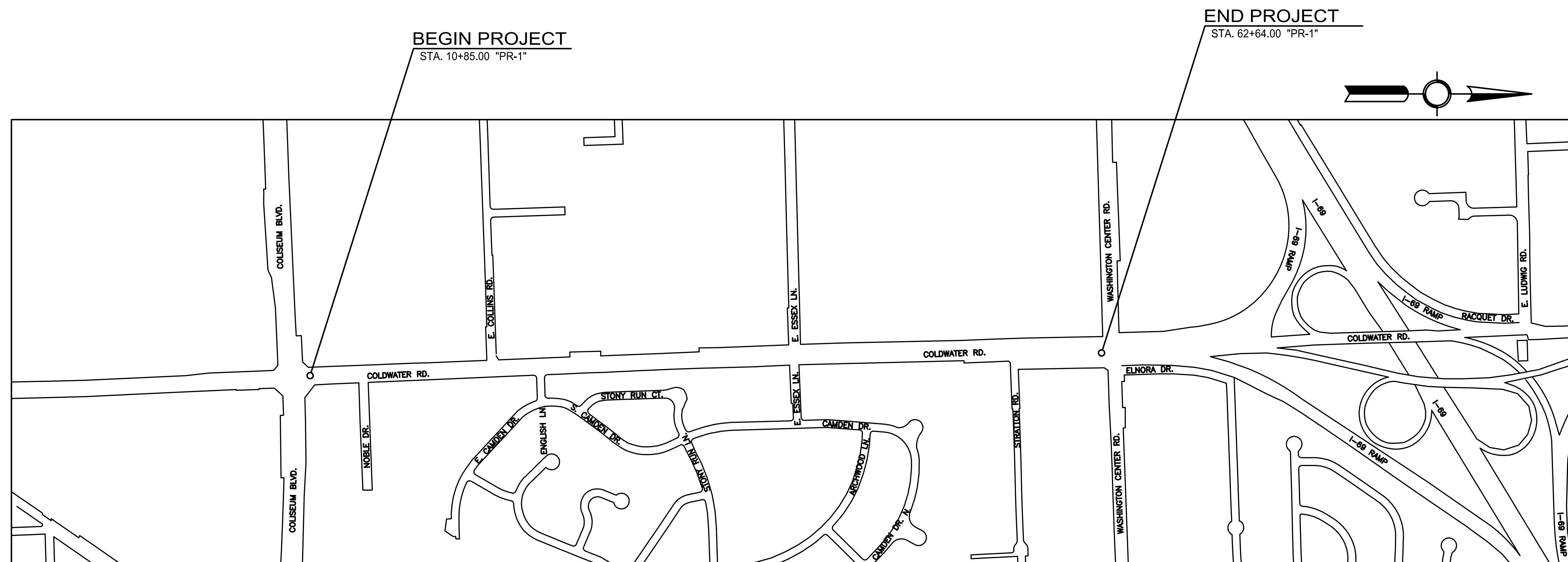
MITCH HARPER  
DISTRICT 4

RUSS JEHL  
DISTRICT 2

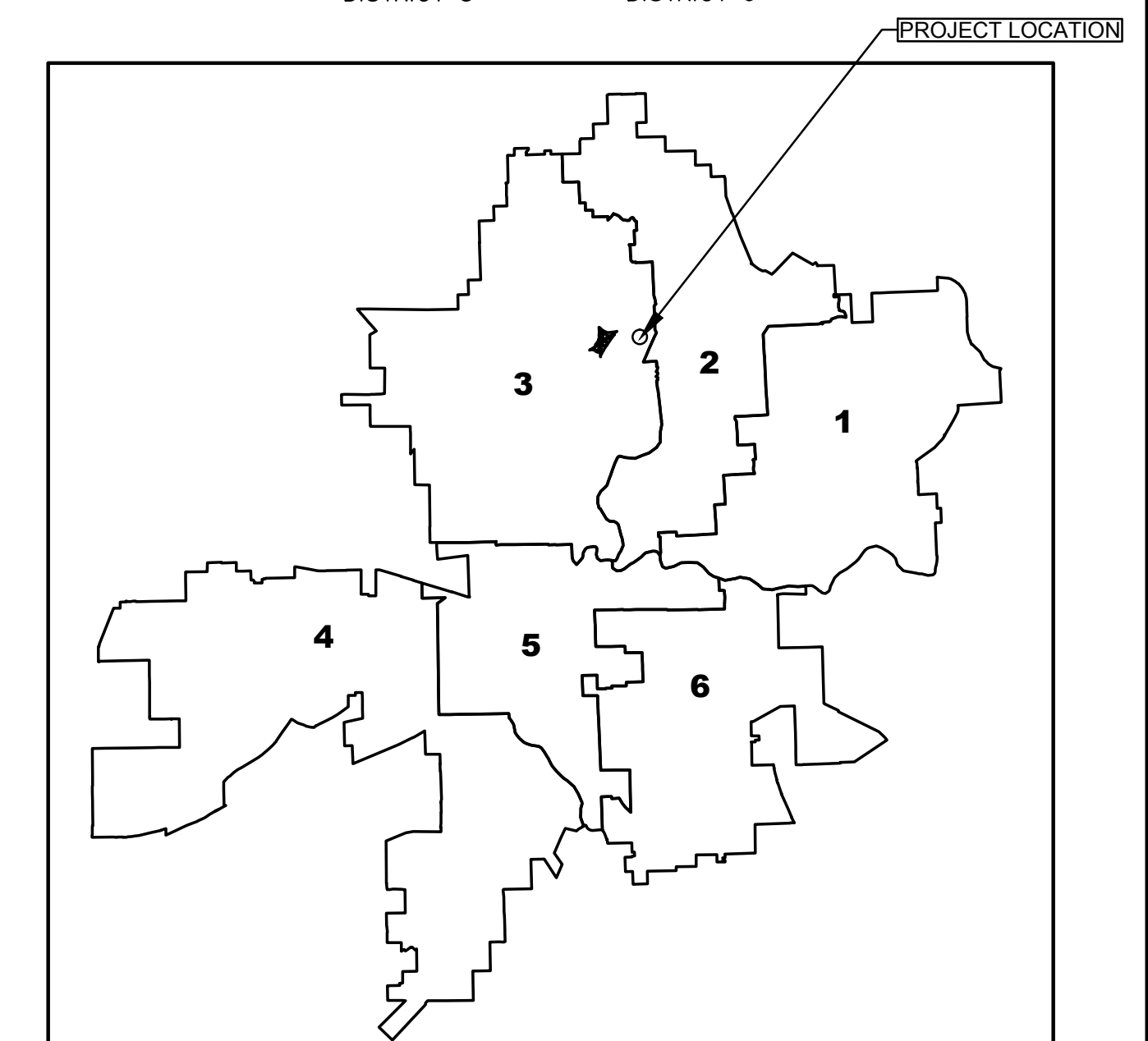
GEOFF PADDOCK  
DISTRICT 5

TOM DIDIER  
DISTRICT 3

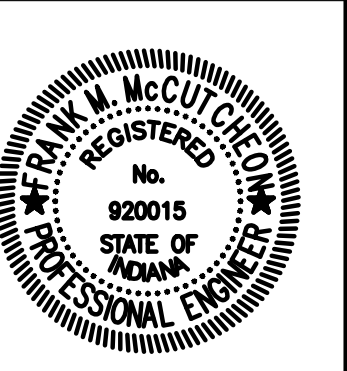
GLYNN HINES  
DISTRICT 6



LOCATION MAP  
NOT TO SCALE



CITY OF FORT WAYNE  
COUNCIL DISTRICTS



DRAFTING SCHEDULE			
NO.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			

PLANS CERTIFIED BY:

Frank M. McCutcheon, P.E.

This \_\_\_ Xth \_\_\_ Day Of \_\_\_ XX \_\_\_ XXX

TRANSPORTATION ENGINEERING SERVICES				CITIZENS SQUARE, 200 EAST BERRY STREET 46802			
-- REVISIONS --							
NO.	DATE	DESCRIPTION	BY				
Designed by: C.H.				RES.		W.O.	
Drawn by: A.D.S.				PR # 14413		S.T.	
Checked by: F.M.M.						Sheet X of XX	

**COLDWATER ROAD  
CONCRETE STREET REHABILITATION**

### UTILITIES & CONTACTS

**CABLE TELEVISION**  
 COMCAST CABLEVISION OF FORT WAYNE  
 720 TAYLOR STREET  
 FORT WAYNE, IN 46802  
 (260) 458-5179 OR (260) 410-3596 [DAVID HARRIS]

**ELECTRIC (DISTRIBUTION)**  
 INDIANA & MICHIGAN POWER  
 P.O. BOX 60, FLOOR 24  
 FORT WAYNE, IN 46801-0060  
 (260) 408-1895 [MARK WALLS]

**FIBER OPTICS / TELECOMMUNICATIONS**  
 RVP FIBER CO., LLC.  
 201 IOHIA AVE. SW  
 GRAND RAPIDS, MI. 49503  
 (616) 233-7191 [CHARLIE OLSZESKI]

TARA COOPERATIVE  
 (260) 483-1014 [CODY BLAK]

ZAYO BANDWIDTH  
 625 E. 11TH ST.  
 INDIANAPOLIS, IN. 46202  
 (317) 524-5711 [JOHN SENESE]

**GAS**  
 NORTHERN INDIANA PUBLIC SERVICE CO (NIPSCO)  
 1501 HALE AVENUE  
 FORT WAYNE, IN 46802  
 (260) 439-1313 [PATRICK LOEFFLER]

**TELEPHONE**  
 FRONTIER COMMUNICATIONS  
 8001 W. JEFFERSON BLVD.  
 MAIL CODE: INFA01  
 FORT WAYNE, IN 46804  
 (260) 461-2268 [JUSTIN KOSCHERI]

**TRAFFIC SIGNAL & INTERCONNECT**  
 CITY OF FORT WAYNE TRAFFIC OPERATIONS  
 CITIZENS SQUARE  
 200 EAST BERRY STREET  
 SUITE 210  
 FORT WAYNE, IN 46802  
 (260) 427-2343 [MARK DUHAIME]

**SANITARY SEWER / STORM SEWER**  
 CITY OF FORT WAYNE DEVELOPMENT SERVICES  
 CITIZENS SQUARE  
 200 EAST BERRY STREET  
 SUITE 140  
 FORT WAYNE, IN 46802  
 (260) 427-2680 [CRAIG BERNDT]

**WATER**  
 CITY OF FORT WAYNE CITY UTILITIES  
 CITIZENS SQUARE  
 200 EAST BERRY STREET  
 SUITE 140  
 FORT WAYNE, IN 46802  
 (260) 427-2475 OR (260) 740-6215 [BOB HINGA]

**STREET LIGHTING**  
 CITY OF FORT WAYNE STREET LIGHT OPERATIONS  
 CITIZENS SQUARE  
 200 EAST BERRY STREET  
 SUITE 210  
 FORT WAYNE, IN 46802  
 (260) 427-2787 [HERB BERG]

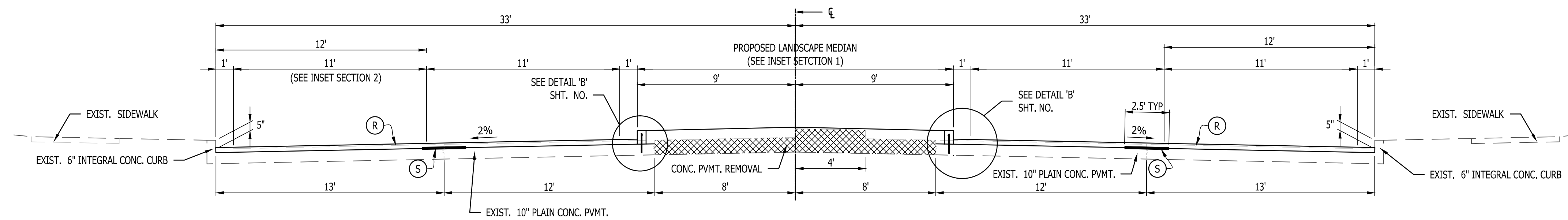


### INDEX

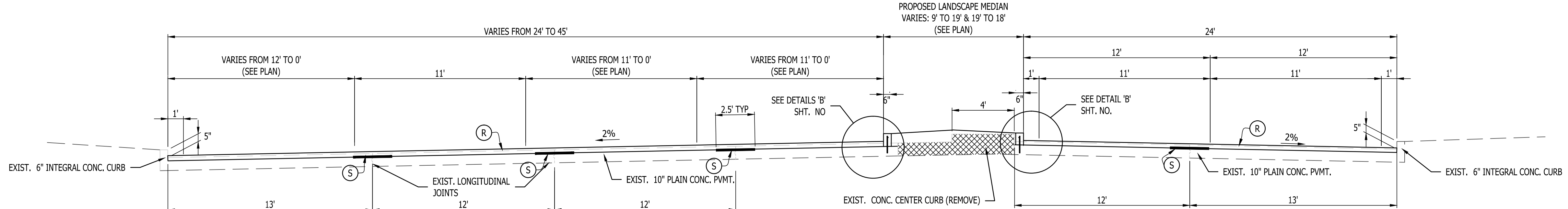
SHEET NO.	DESIGNATION		
1	TITLE SHEET		
2	INDEX		
3-5	TYPICAL CROSS SECTIONS		
6	MAINTENANCE OF TRAFFIC		
7-17	CONSTRUCTION DETAIL		
18-23	PAVEMENT MARKINGS & SIGNAGE PLANS		
24-29	CONCRETE REMOVAL PLANS		
30-34	MISC. CONSTR. DETAILS		
35-45	LANDSCAPING		

### EXISTING SYMBOLS LEGEND

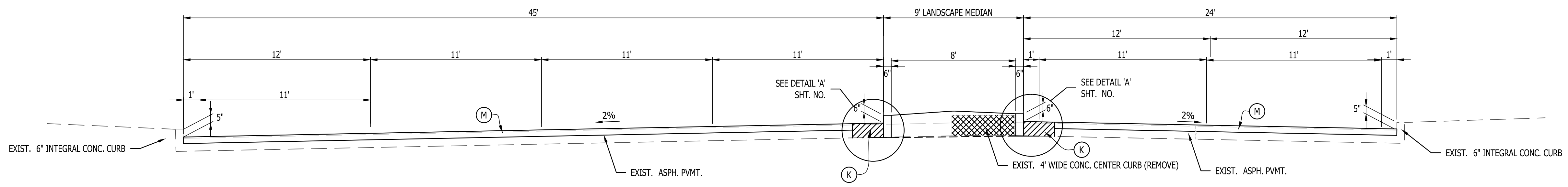
X Ground Shot	Power Pole w/ Elec. Drop	Mailbox	Automatic Sprinkler
Air Conditioning Unit	Round Inlet	Manhole	Stand Pipe
Guy Anchor	Electric Box	Monitoring Well	Sanitary Tap
Antenna	Electric Meter	Pine Tree	Stump
Beehive Inlet	Electric Panel	Pay Phone	T-Bar Post
Bench Mark	Electric Pedestal	Paper Box	Temporary Bench Mark
Water Blow-Off	I Beam Post	Parking Block	Telephone Pedestal
Bollard	Finish Floor	Parking Meter	Telephone Pole
Bolt	Fire Hydrant	Boundary Mon. - Pipe	Valve
Soil Boring	Flag	Post Indicator Valve	Vault
Boulder	Gas Regulator	PK Nail	Water Curb Stop
Tree	Gas Curb Stop	Steel Plate	Well
Iron Pin	Gas Meter	Post	Water Meter
Cable TV Pedestal	Gas Valve	Square Post	Warning Riser
Clean-Out	Handicap	Power Pole	Water Valve
Column	Curb Cast Inlet	Railroad Rail	Yard Light
Control Point	Irrigation Control Valve	Railroad Spike	Yard Hydrant
Satellite Dish	Square Inlet	Sign	Chiseled "X"
Field Drain	Light Pole Base Only	Signal Pole	Vent
Downspout	Light Pole	Survey Marker Nail	Harrison Marker
Drain	Mag Nail	Strain Pole	
CATV	Underground Cable Television	OHTEL	Overhead Telephone
OHEL	Overhead Electric	UGTEL	Underground Telephone
UGEL	Underground Electric	W	Water Line
X	Fence	- - - - -	Right-of-Way Line
G	Gas Line	PL	Property Line
UGFIB	Underground Fiber	UGTRAF	Underground Traffic



**TANGENT SECTION - COLDWATER ROAD**  
 STA. 19+27.00 TO STA. 28+00.00 "PR-1"  
 STA. 30+88.00 TO STA. 33+86.00 "PR-1"  
 STA. 38+73.00 TO STA. 42+28.00 "PR-1"  
 SCALE: 1/4" = 1'-0"



**TANGENT SECTION - COLDWATER ROAD**  
 STA. 15+25.00 TO STA. 19+27.00 "PR-1"  
 SCALE: 1/4" = 1'-0"

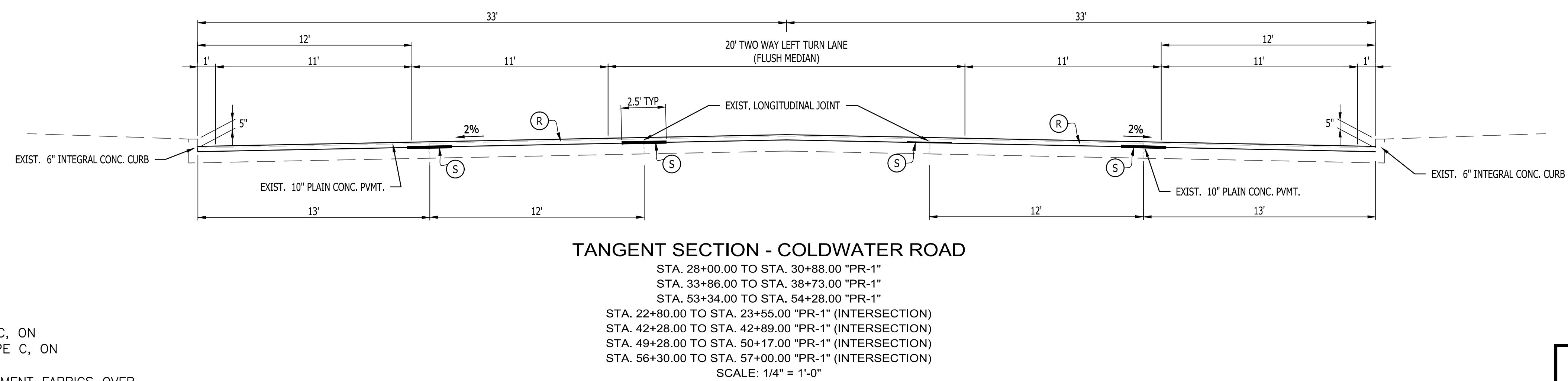
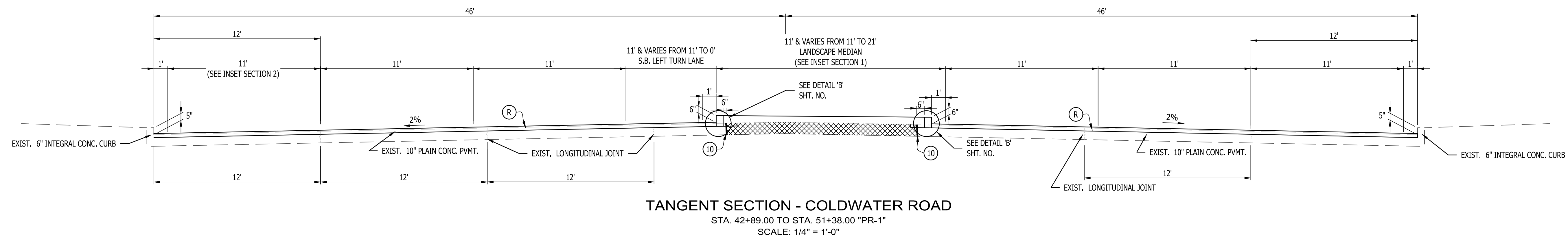
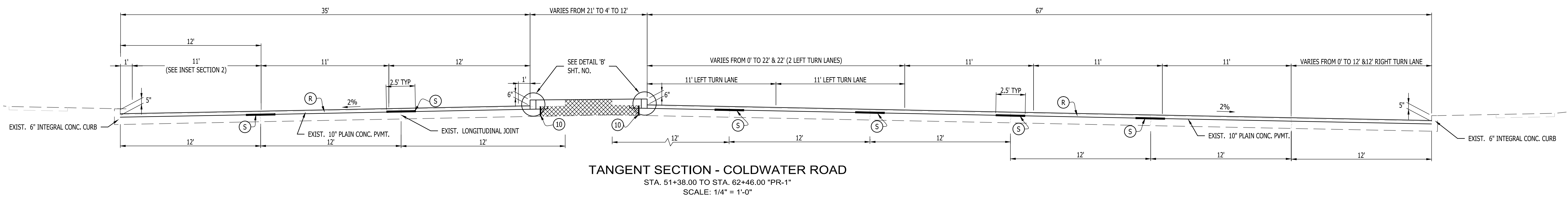


**TANGENT SECTION - COLDWATER ROAD**  
 STA. 10+85.00 TO STA. 15+25.00 "PR-1"  
 SCALE: 1/4" = 1'-0"

**LEGEND**

- (K) 165 #/SY HMA SURFACE, TYPE C ON  
1155 #/SY HMA BASE, TYPE C, ON  
6" COMPACTED AGGREGATE BASE No. 53
- (M) 165 #/SY HMA SURFACE, TYPE C ON  
385 #/SY HMA BASE, TYPE C, ON  
4.0 IN. ASPHALT MILLING
- (R) 165 #/SY HMA SURFACE, TYPE C, ON  
220 #/SY HMA INTERMEDIATE, TYPE C, ON  
2.5 IN. PCCP MILLING
- (S) COMPOSITE PAVEMENT REINFORCEMENT FABRICS OVER  
LONGITUDINAL JOINTS (SEE DETAIL)

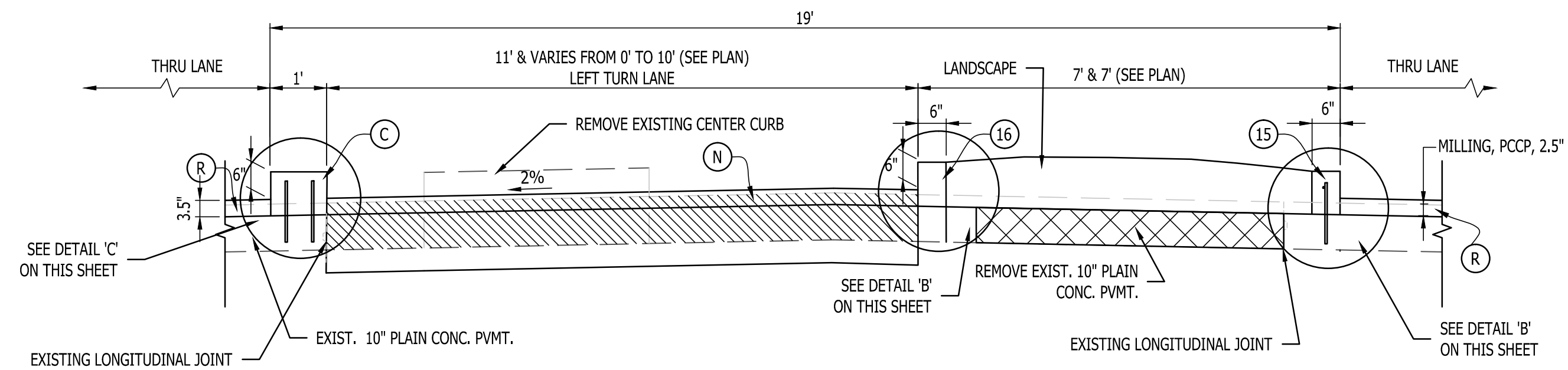
<b>COLDWATER ROAD CONCRETE STREET REHABILITATION TYPICAL CROSS SECTIONS</b>			
Designed by: C.H.	RES.	W.O.	S.T.
Drawn by:	PR # 14413		Sheet 3 of ##
Checked by: F.M.M.			



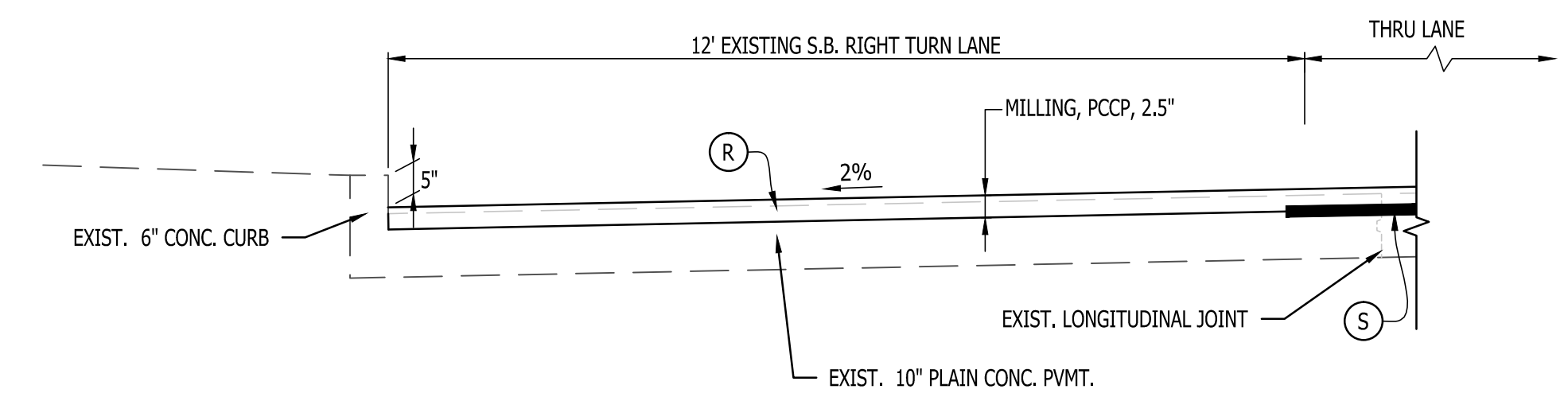
**LEGEND**

- (R) 165 #/SY HMA SURFACE, TYPE C, ON 220# /SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
- (S) COMPOSITE PAVEMENT REINFORCEMENT FABRICS OVER LONGITUDINAL JOINTS (SEE DETAIL)
- (10) SAW CUT (FULL DEPTH)

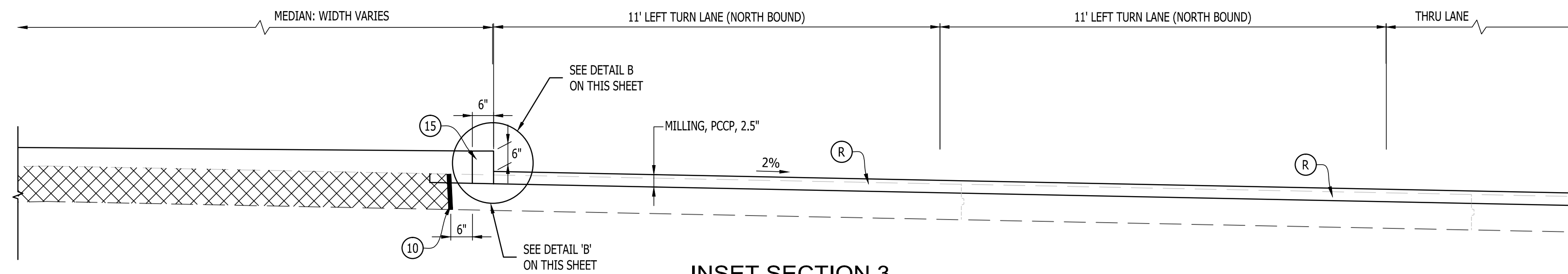
<b>COLDWATER ROAD CONCRETE STREET REHABILITATION TYPICAL CROSS SECTIONS</b>			
Designed by: C.H.	RES.	W.O.	S.T.
Drawn by:	PR # 14413		Sheet 4 of ##
Checked by: F.M.M.			



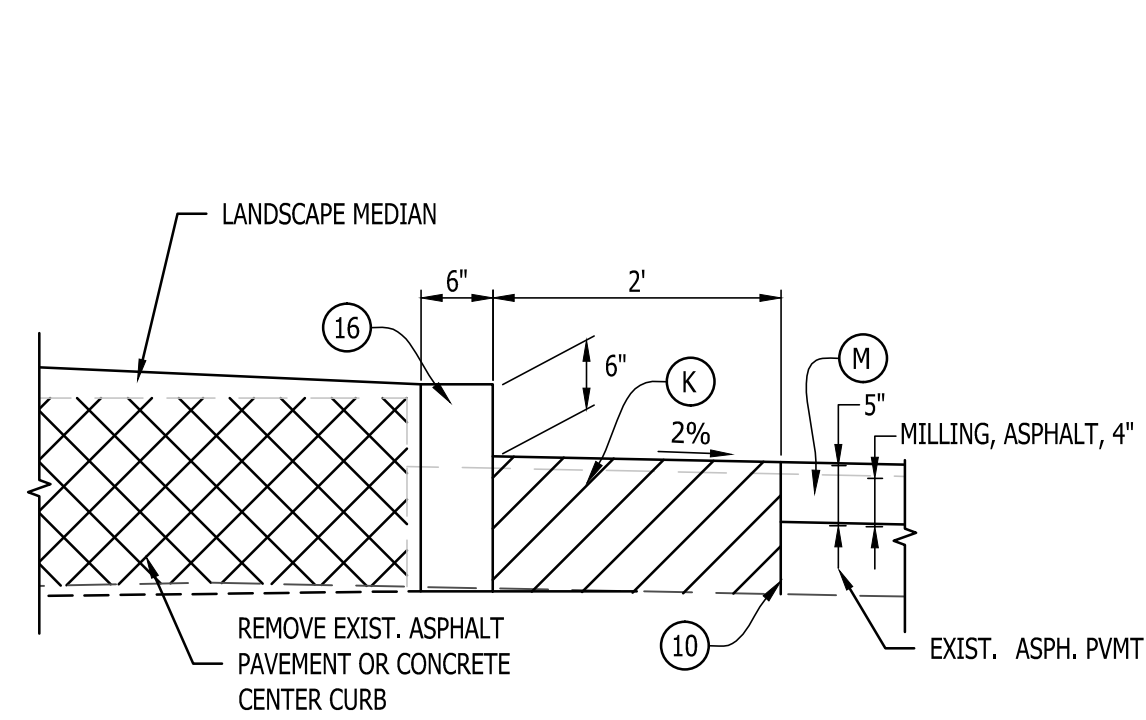
**INSET SECTION 1**  
 STA. 20+93.00 TO STA. 26+50.00 "PR-1"  
 STA. 39+90.00 TO STA. 44+25.00 "PR-1"  
 STA. 47+14.00 TO STA. 51+38.00 "PR-1"  
 (NOTE: REVERSE FIGURE FOR SOUTHBOUND)  
 SCALE: 1/2" = 1'-0"



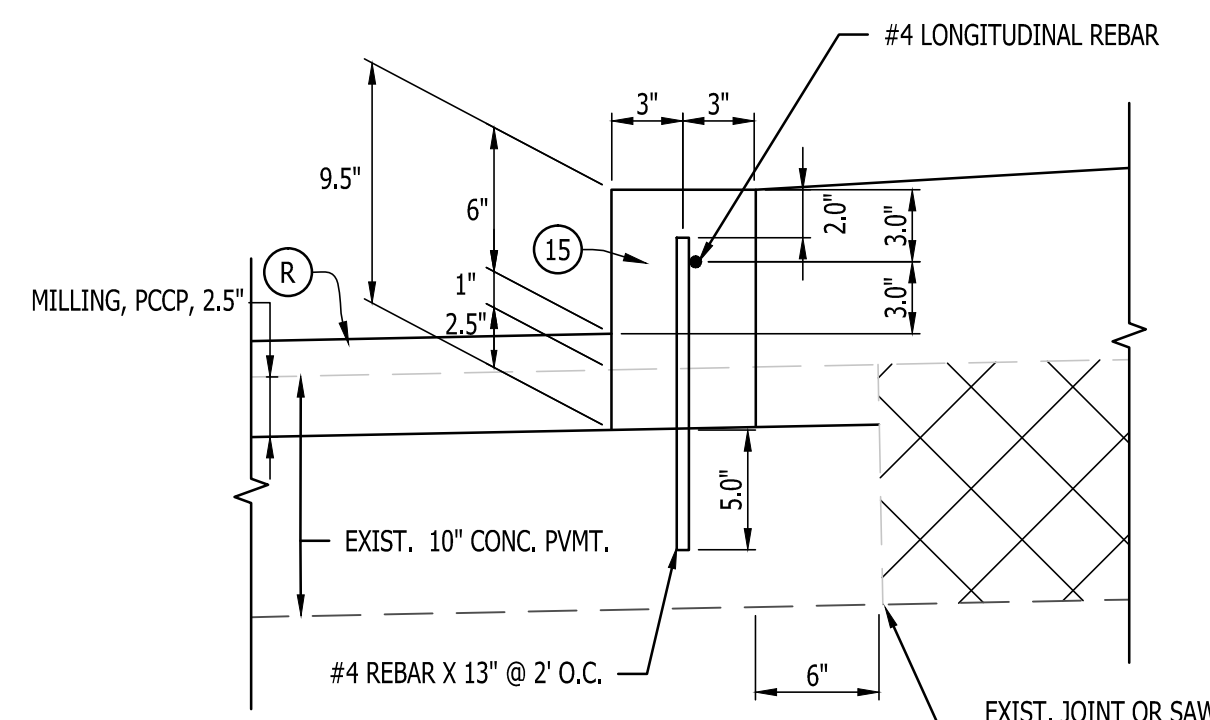
**INSET SECTION 2**  
 STA. 50+00.00 TO STA. 53+34.00 "PR-1"  
 SCALE: 1/2" = 1'-0"



**INSET SECTION 3**  
 SCALE: 1/2" = 1'-0"

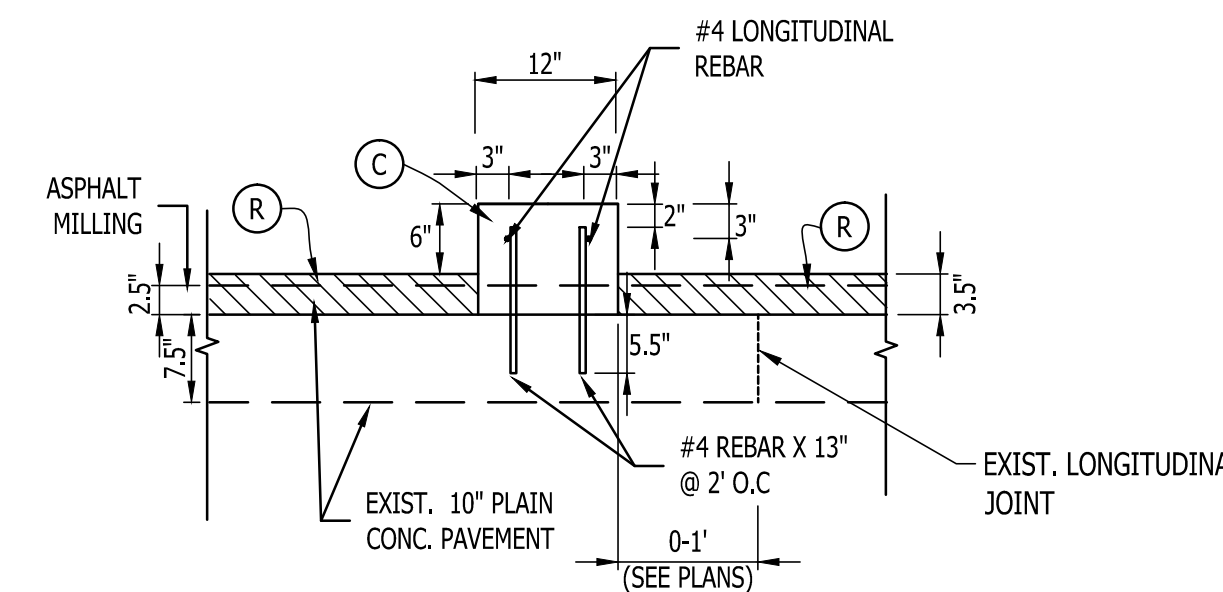


**DETAIL 'A'**  
 SCALE: 3/4" = 1'-0"



NOTE: REVERSE FOR NORTHBOUND LANE

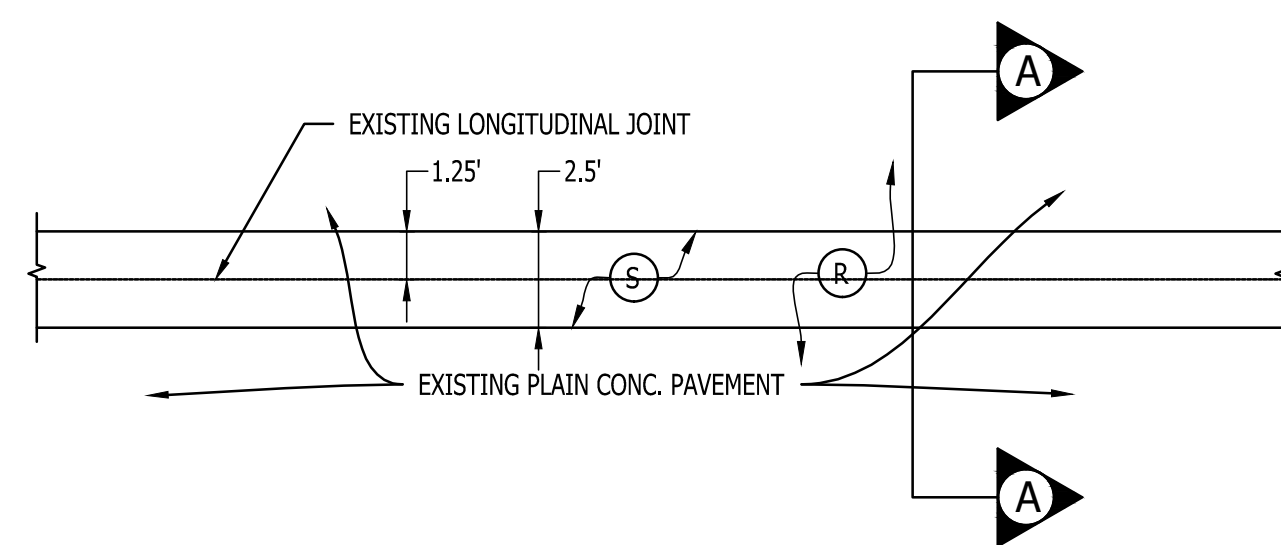
**DETAIL 'B'**  
 SCALE: 1" = 1'-0"



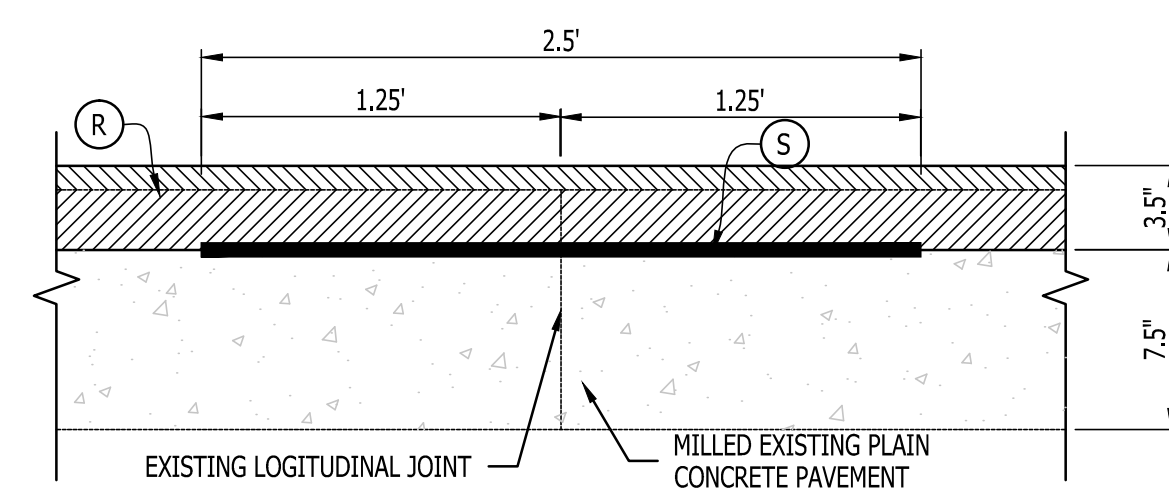
**DETAIL 'C'**  
 SCALE: 3/4" = 1'-0"

**LEGEND**

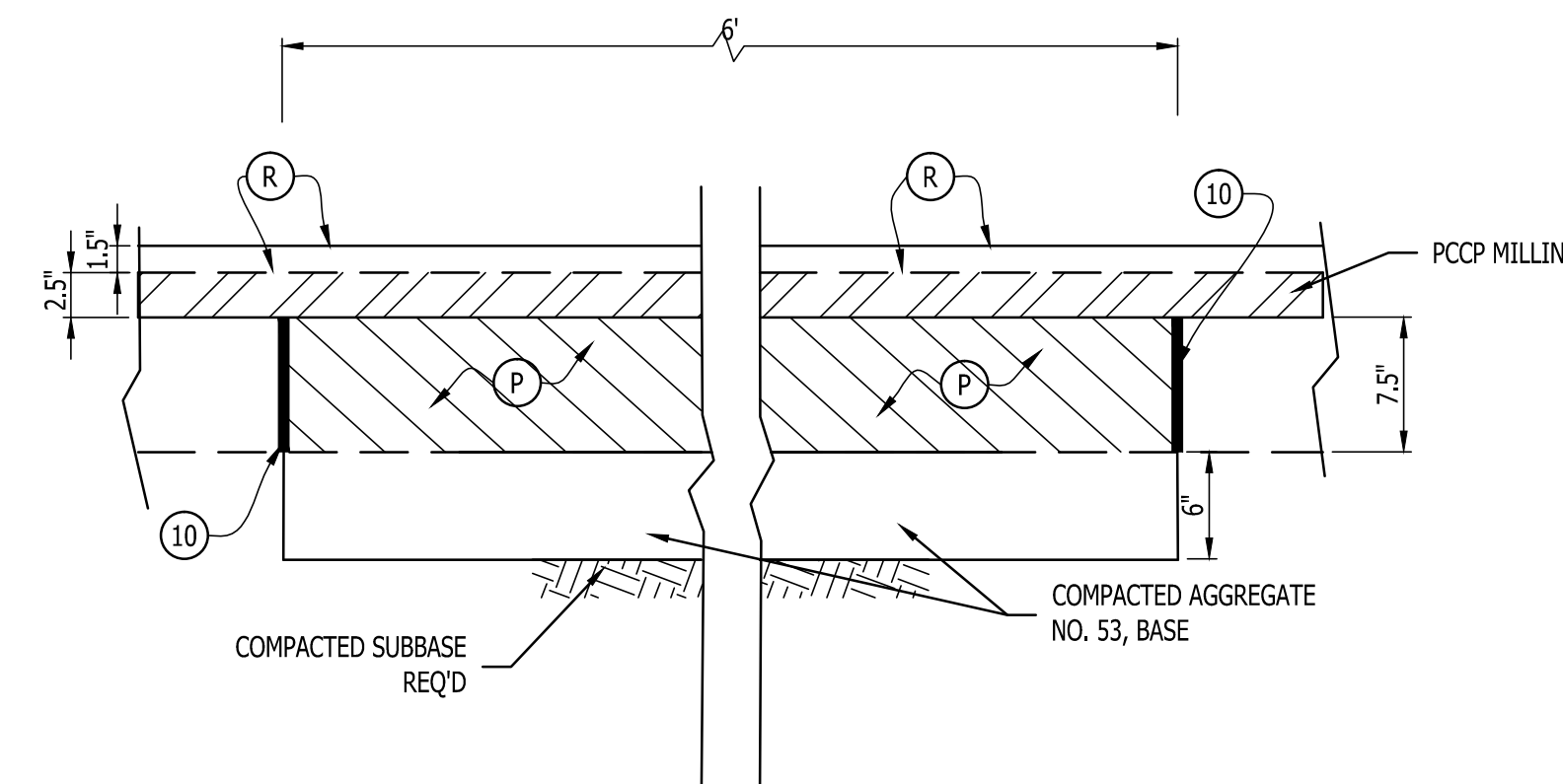
- (C) CONCRETE CENTER CURB TYPE "C", (MODIFIED)
- (K) 165 #/SY HMA SURFACE, TYPE C ON 1155 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 53
- (M) 165 #/SY HMA SURFACE, TYPE C ON 385 #/SY HMA BASE, TYPE C, ON 4.0 IN. ASPHALT MILLING
- (N) 165 #/SY HMA SURFACE, TYPE C ON 220 #/SY HMA INTERMEDIATE, TYPE C ON 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 53
- (P) HMA FOR PATCHING 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 53
- (R) 165 #/SY HMA SURFACE, TYPE C, ON 220 #/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
- (S) COMPOSITE PAVEMENT REINFORCEMENT FABRICS OVER LONGITUDINAL JOINTS (SEE DETAIL)
- (10) SAW CUT (FULL DEPTH)
- (15) CONCRETE CURB TYPE II-A (MODIFIED--SEE DETAIL)
- (16) CONCRETE CURB TYPE III



**PLAN VIEW**  
 SCALE: 1" = 5'-0"



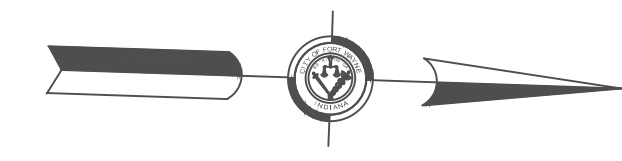
**SECTION 'A-A'**  
 SCALE: 3/4" = 1'-0"



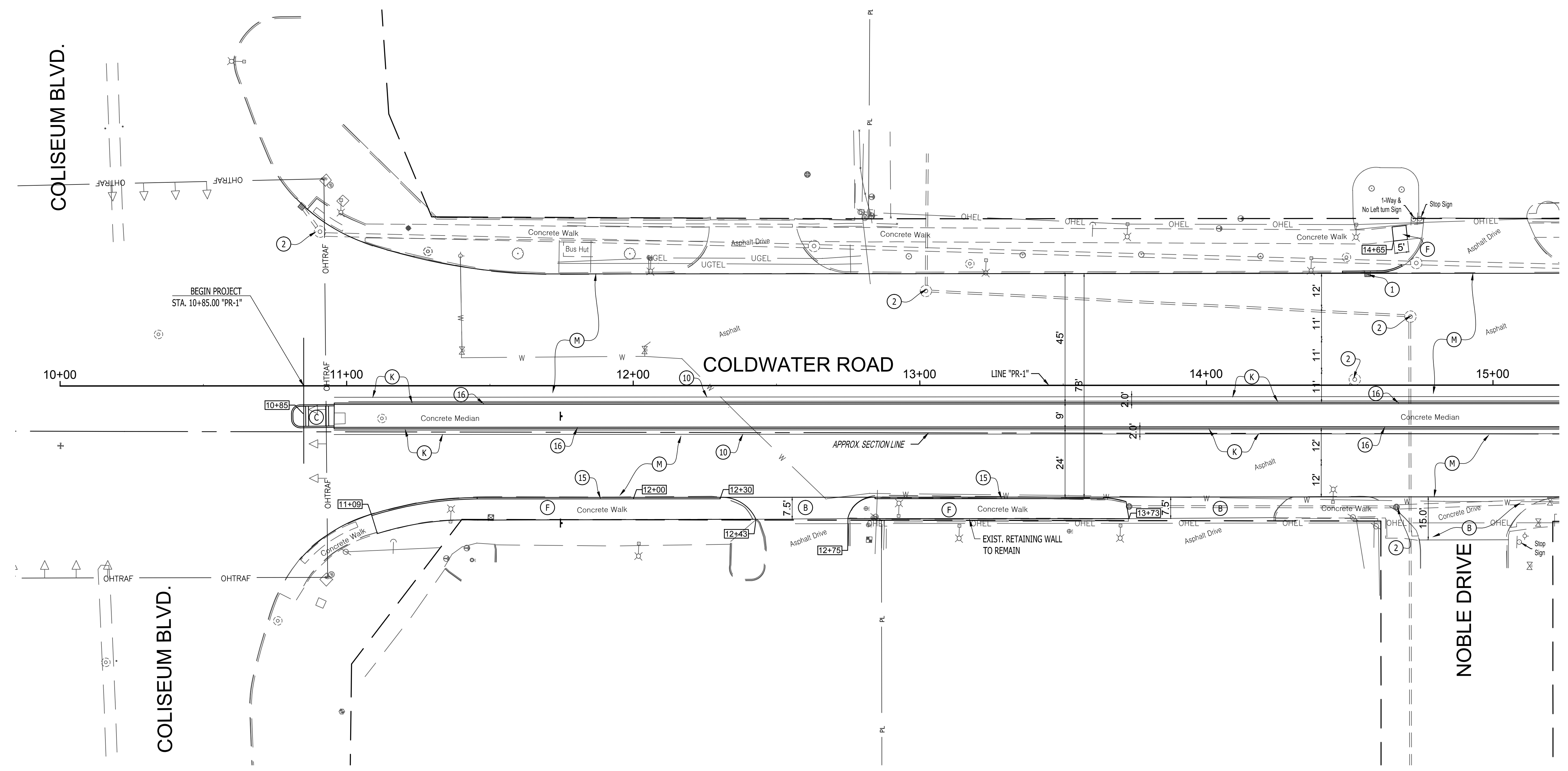
**MID PANEL PAVEMENT CRACKING REPAIR DETAIL**  
 SCALE: 1" = 1'-0"

**LONGITUDINAL JOINT TREATMENT DETAIL**  
 SCALE: AS NOTED

COLDWATER ROAD CONCRETE STREET REHABILITATION MISCELLANEOUS DETAILS			
Designed by: C.H.	RES.	W.O.	S.T.
Drawn by:		PR # 14413	Sheet 5 of ##
Checked by: F.M.M.			



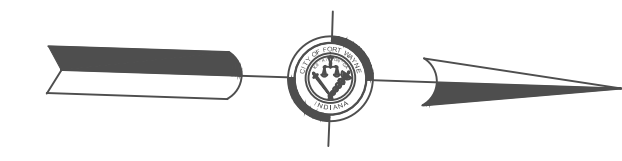
SCALE: 1"=20'



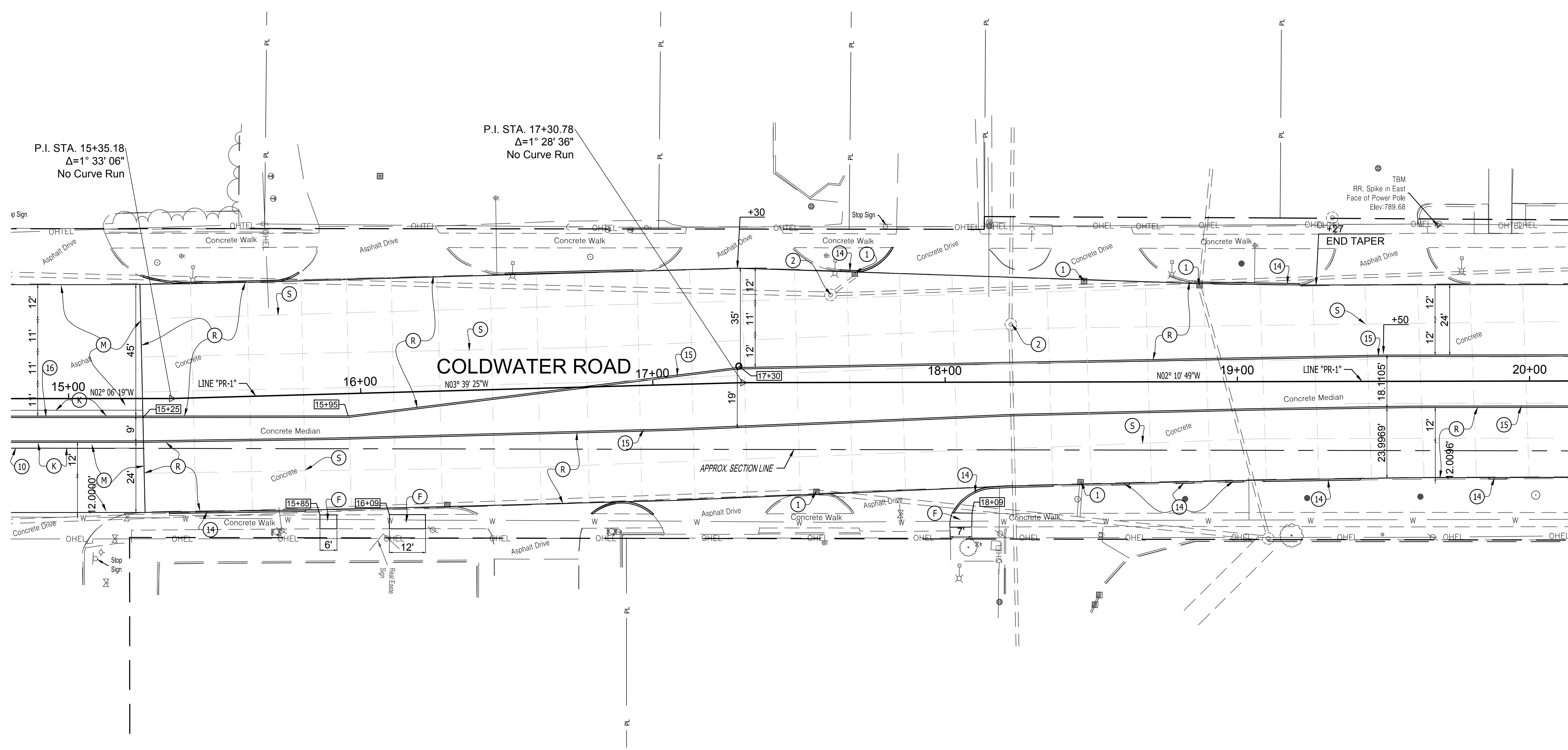
LEGEND	
(B)	HMA FOR APPROACHES, TYPE B 165 #/SY HMA SURFACE, TYPE B ON VARIABLE DEPTH OF ASPHALT MILLING
(C)	CONCRETE CENTER CURB TYPE "C", (MODIFIED)
(F)	CONCRETE SIDEWALK, 4"
(K)	165 #/SY HMA SURFACE, TYPE C ON 1155 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 53
(M)	165 #/SY HMA SURFACE, TYPE C ON 385 #/SY HMA BASE, TYPE C, ON 4.0 IN. ASPHALT MILLING
(1)	EXISTING INLET IN PLACE, ADJUST CASTING TO GRADE
(2)	EXISTING MH IN PLACE, ADJUST CASTING TO GRADE
(16)	CONCRETE CURB TYPE III

- NOTES:
1. SEE RAISED MEDIAN NOSE, LEFT-TURN LANE BAY TAPER AND PEDESTRIAN REFUGE AREA DETAILS ON SHEET NO. 30
  2. EXISTING TRANSVERSE PAVEMENT JOINTS ARE SPACED APPROXIMATELY SHOWN ON THE PLANS (BETWEEN 18'-20')
  3. THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.
  4. THE PROPOSED TRAVEL LANE PROFILE GRADE OF THE NEW PAVEMENT OVERLAY SHALL BE 1" ABOVE THE EXISTING PROFILE GRADE

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONSTRUCTION DETAILS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 7 of ##		



SCALE: 1"=20'



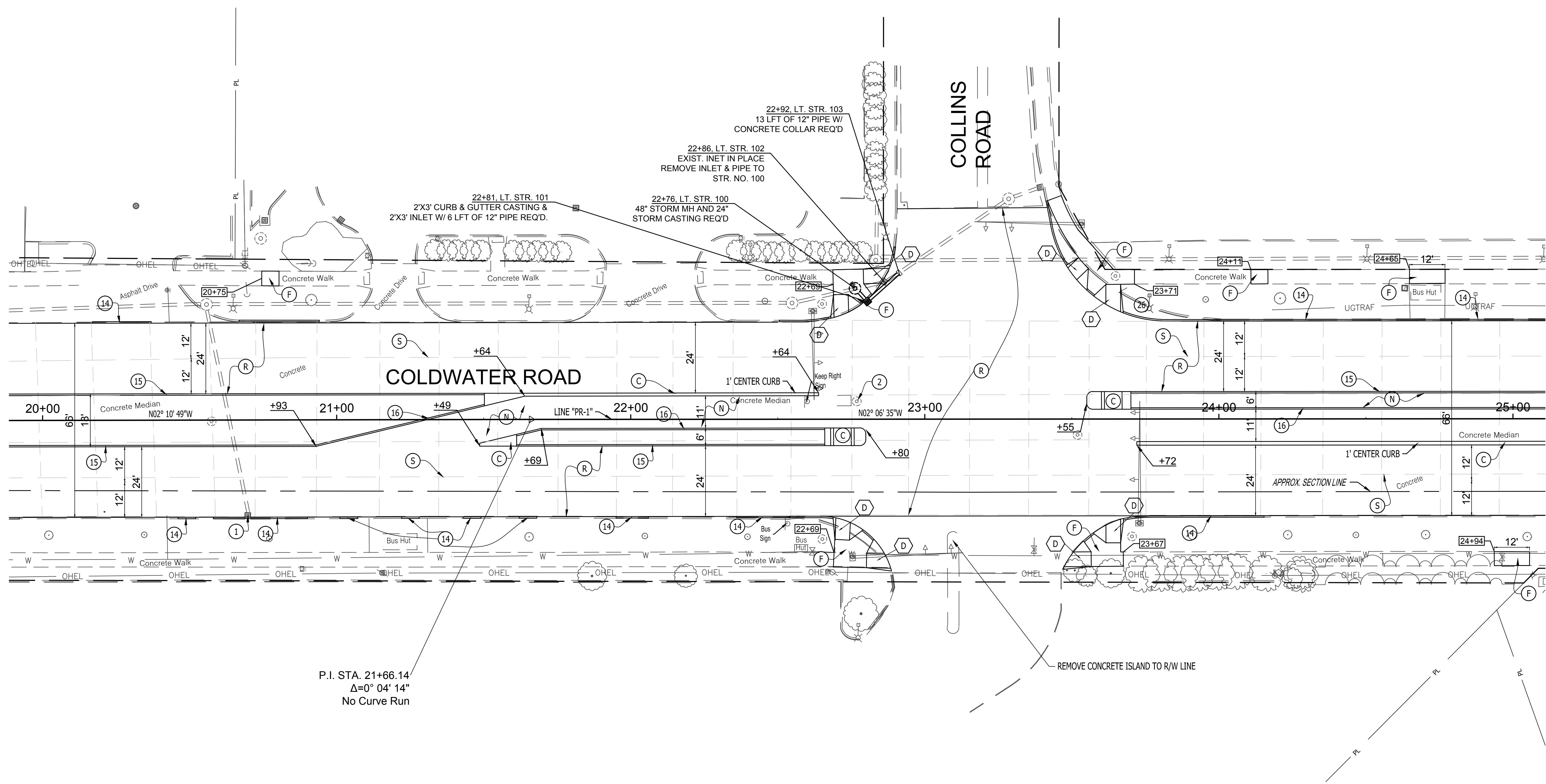
- NOTES:**
1. SEE RAISED MEDIAN NOSE, LEFT-TURN LANE BAY TAPER AND PEDESTRIAN REFUGE AREA DETAILS ON SHEET NO. 30
  2. EXISTING TRANSVERSE PAVEMENT JOINTS ARE SPACED APPROXIMATELY SHOWN ON THE PLANS (BETWEEN 18'-20')
  3. THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.
  4. THE PROPOSED TRAVEL LANE PROFILE GRADE OF THE NEW PAVEMENT OVERLAY SHALL BE 1" ABOVE THE EXISTING PROFILE GRADE

LEGEND	
(K)	165 #/SY HMA SURFACE, TYPE C ON 1155 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 5.3
(M)	165 #/SY HMA SURFACE, TYPE C ON 385 #/SY HMA BASE, TYPE C, ON 4.0 IN. ASPHALT MILLING
(R)	165 #/SY HMA SURFACE, TYPE C, ON 220#/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
(S)	COMPOSITE PAVEMENT REINFORCEMENT FABRICS OVER LONGITUDINAL JOINTS (SEE DETAIL)
(1)	EXISTING INLET IN PLACE, ADJUST CASTING TO GRADE
(2)	EXISTING MH IN PLACE, ADJUST CASTING TO GRADE
(10)	SAW CUT (FULL DEPTH)
(14)	CONCRETE CURB TYPE II-A (SEE DETAIL)
(15)	CONCRETE CURB TYPE II-A (MODIFIED-SEE DETAIL)
(16)	CONCRETE CURB TYPE III

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONSTRUCTION DETAILS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 8 of ##		



SCALE: 1"=20'



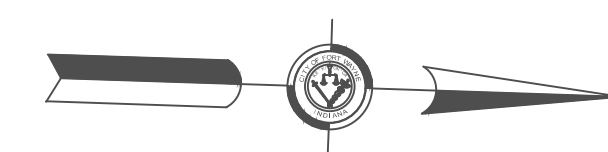
P.I. STA. 21+66.14  
 $\Delta=0^{\circ} 04' 14''$   
 No Curve Run

- NOTES:**
- SEE RAISED MEDIAN NOSE, LEFT-TURN LANE BAY TAPER AND PEDESTRIAN REFUGE AREA DETAILS ON SHEET NO. 30
  - EXISTING TRANSVERSE PAVEMENT JOINTS ARE SPACED APPROXIMATELY SHOWN ON THE PLANS (BETWEEN 18'-20')
  - THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.
  - THE PROPOSED TRAVEL LANE PROFILE GRADE OF THE NEW PAVEMENT OVERLAY SHALL BE 1" ABOVE THE EXISTING PROFILE GRADE

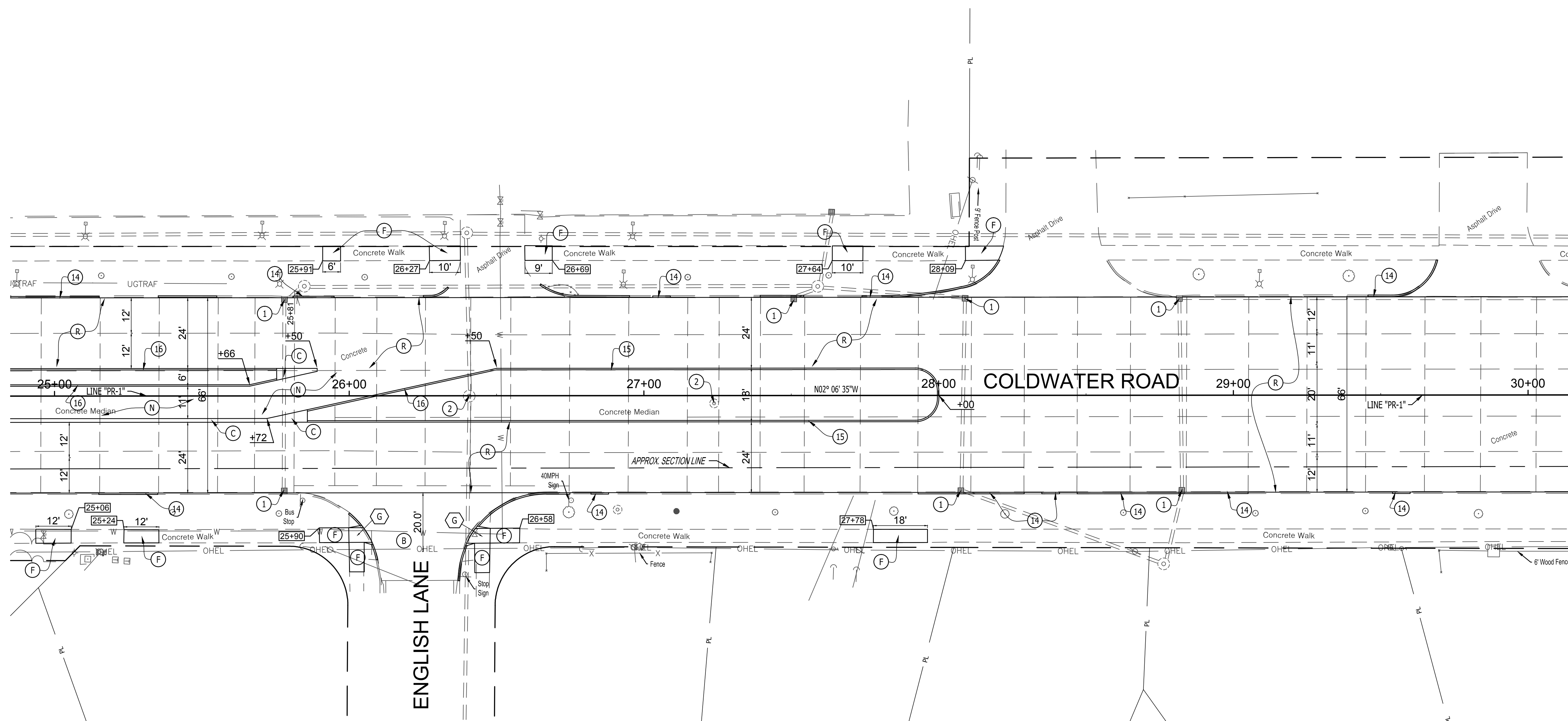
LEGEND	
(C)	CONCRETE CENTER CURB TYPE "C", (MODIFIED)
(F)	CONCRETE SIDEWALK, 4"
(N)	165 #/SY HMA SURFACE, TYPE C ON 220 #/SY HMA INTERMEDIATE, TYPE C ON 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE NO. 53
(R)	165 #/SY HMA SURFACE, TYPE C, ON 220 #/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
(S)	COMPOSITE PAVEMENT REINFORCEMENT FABRICS OVER LONGITUDINAL JOINTS (SEE DETAIL)
(XX)	CURB RAMP TYPE "XX"
(1)	EXISTING INLET IN PLACE, ADJUST CASTING TO GRADE
(2)	EXISTING MH IN PLACE, ADJUST CASTING TO GRADE
(14)	CONCRETE CURB TYPE II-A (SEE DETAIL)
(15)	CONCRETE CURB TYPE II-A (MODIFIED-SEE DETAIL)
(16)	CONCRETE CURB TYPE III
(26)	SODDING (NURSERY)

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONSTRUCTION DETAILS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		Sheet 9 of ##
Checked by:			





SCALE: 1"=20'



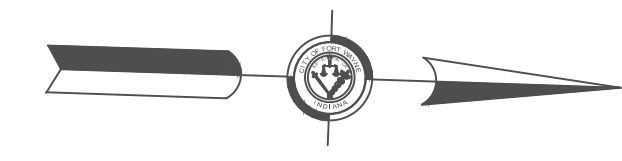
**NOTES:**

1. SEE RAISED MEDIAN NOSE, LEFT-TURN LANE BAY TAPER AND PEDESTRIAN REFUGE AREA DETAILS ON SHEET NO. 30
2. EXISTING TRANSVERSE PAVEMENT JOINTS ARE SPACED APPROXIMATELY SHOWN ON THE PLANS (BETWEEN 18'-20')
3. THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.
4. THE PROPOSED TRAVEL LANE PROFILE GRADE OF THE NEW PAVEMENT OVERLAY SHALL BE 1" ABOVE THE EXISTING PROFILE GRADE

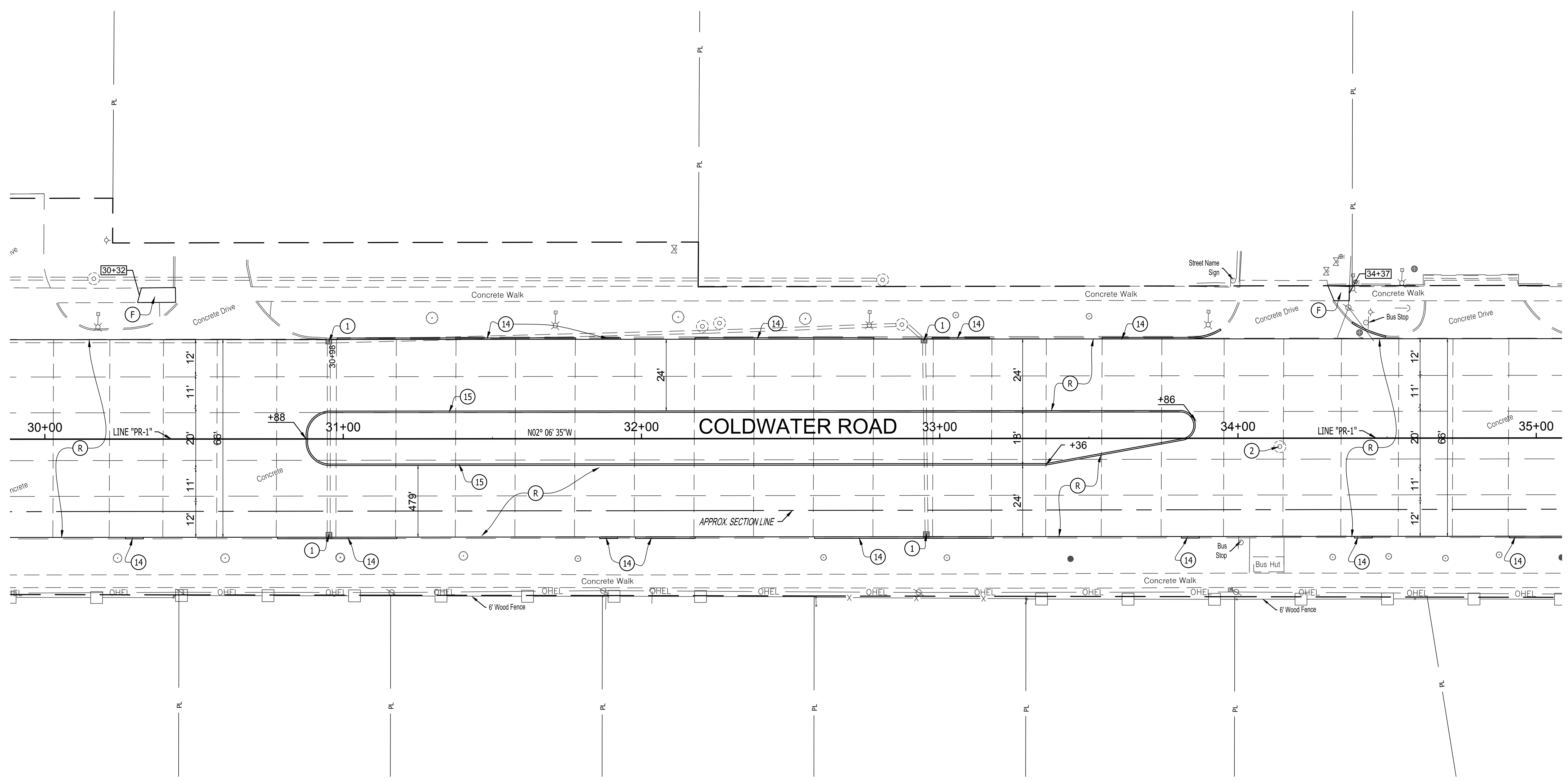
**LEGEND**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>(B) HMA FOR APPROACHES, TYPE B<br/>165 #/SY HMA SURFACE, TYPE B ON VARIABLE DEPTH OF ASPHALT MILLING</li> <li>(C) CONCRETE CENTER CURB TYPE "C", (MODIFIED)</li> <li>(F) CONCRETE SIDEWALK, 4"</li> <li>(N) 165 #/SY HMA SURFACE, TYPE C ON 220 #/SY HMA INTERMEDIATE, TYPE C ON 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE NO. 53</li> <li>(R) 165 #/SY HMA SURFACE, TYPE C, ON 220 #/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING</li> <li>(XX) CURB RAMP TYPE "XX"</li> </ul> | <ul style="list-style-type: none"> <li>(1) EXISTING INLET IN PLACE, ADJUST CASTING TO GRADE</li> <li>(2) EXISTING MH IN PLACE, ADJUST CASTING TO GRADE</li> <li>(14) CONCRETE CURB TYPE II-A (SEE DETAIL)</li> <li>(15) CONCRETE CURB TYPE II-A (MODIFIED-SEE DETAIL)</li> <li>(16) CONCRETE CURB TYPE III</li> </ul> |
|--|---|

<b>COLDWATER ROAD CONCRETE STREET REHABILITATION</b>			
<b>CONSTRUCTION DETAILS</b>			
Designed by:	RES.	W.O.	S.T.
Drawn by:			
Checked by:	PR # 14413		Sheet 10 of ##



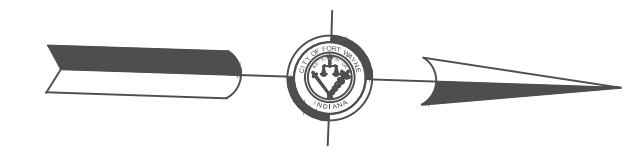
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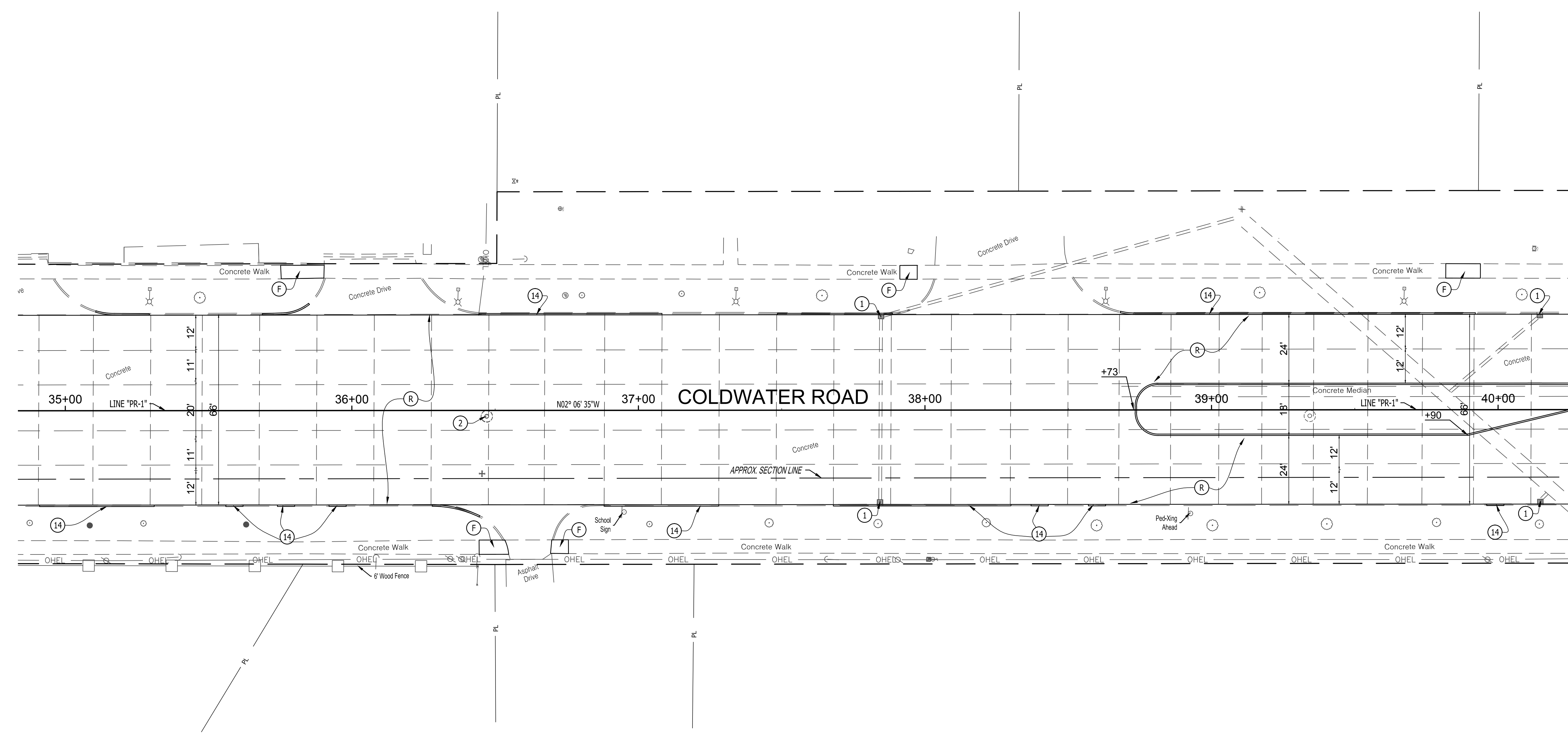
- NOTES:
1. SEE RAISED MEDIAN NOSE, LEFT-TURN LANE BAY TAPER AND PEDESTRIAN REFUGE AREA DETAILS ON SHEET NO. 30
  2. EXISTING TRANSVERSE PAVEMENT JOINTS ARE SPACED APPROXIMATELY SHOWN ON THE PLANS (BETWEEN 18'-20')
  3. THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.
  4. THE PROPOSED TRAVEL LANE PROFILE GRADE OF THE NEW PAVEMENT OVERLAY SHALL BE 1" ABOVE THE EXISTING PROFILE GRADE

LEGEND	
(F)	CONCRETE SIDEWALK, 4"
(R)	165 #/SY HMA SURFACE, TYPE C, ON 220#/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
(1)	EXISTING INLET IN PLACE, ADJUST CASTING TO GRADE
(2)	EXISTING MH IN PLACE, ADJUST CASTING TO GRADE
(14)	CONCRETE CURB TYPE II-A (SEE DETAIL)
(15)	CONCRETE CURB TYPE II-A (MODIFIED-SEE DETAIL)

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONSTRUCTION DETAILS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 11 of ##		



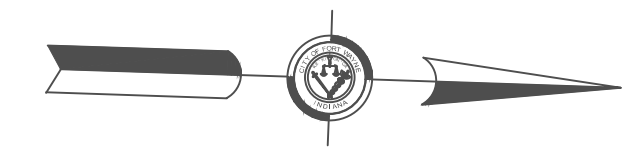
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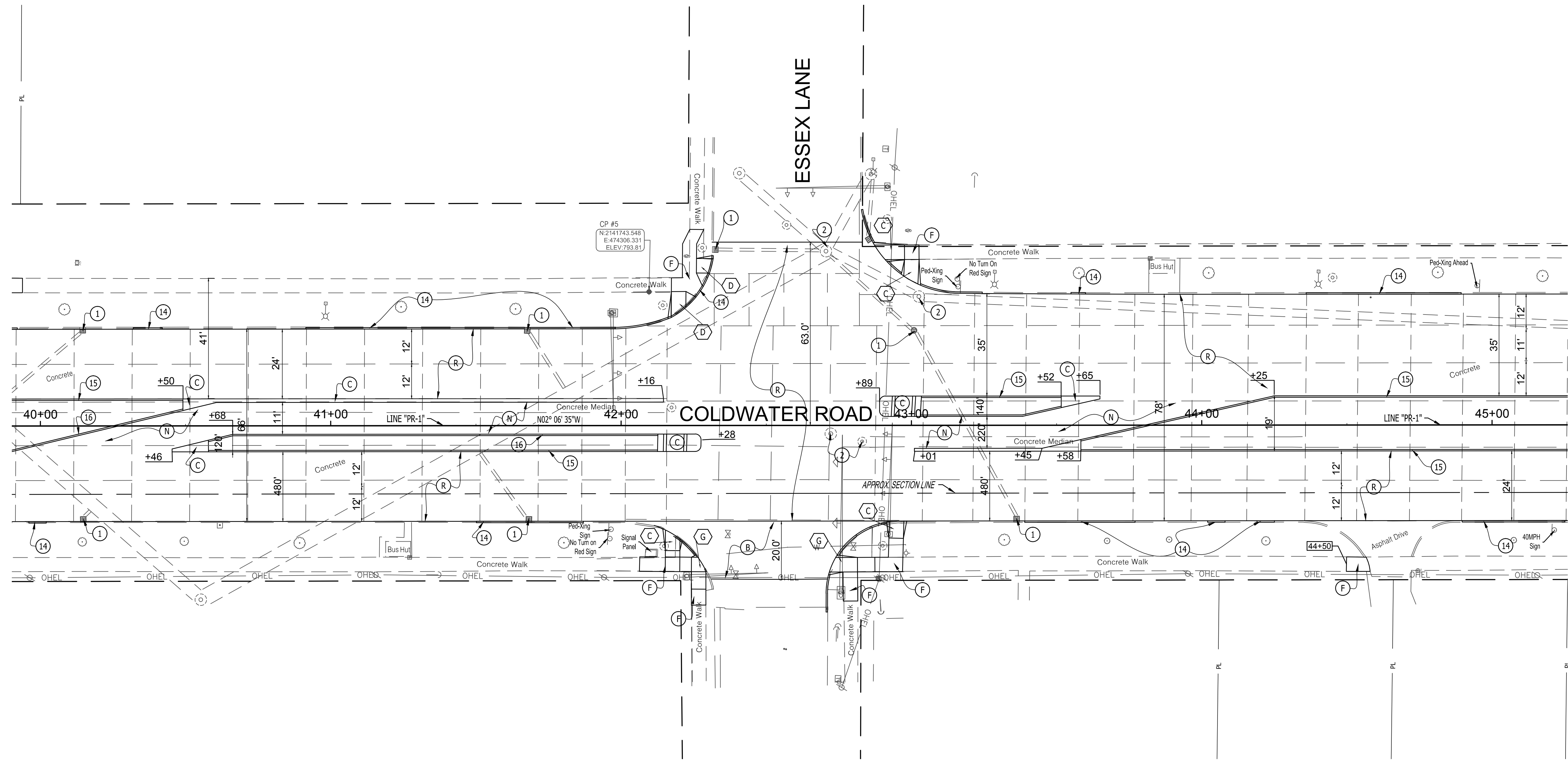
- NOTES:
1. SEE RAISED MEDIAN NOSE, LEFT-TURN LANE BAY TAPER AND PEDESTRIAN REFUGE AREA DETAILS ON SHEET NO. 30
  2. EXISTING TRANSVERSE PAVEMENT JOINTS ARE SPACED APPROXIMATELY SHOWN ON THE PLANS (BETWEEN 18'-20')
  3. THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.
  4. THE PROPOSED TRAVEL LANE PROFILE GRADE OF THE NEW PAVEMENT OVERLAY SHALL BE 1" ABOVE THE EXISTING PROFILE GRADE

LEGEND	
(F)	CONCRETE SIDEWALK, 4"
(R)	165 #/SY HMA SURFACE, TYPE C, ON 220#/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
(1)	EXISTING INLET IN PLACE, ADJUST CASTING TO GRADE
(2)	EXISTING MH IN PLACE, ADJUST CASTING TO GRADE
(14)	CONCRETE CURB TYPE II-A (SEE DETAIL)
(15)	CONCRETE CURB TYPE II-A (MODIFIED-SEE DETAIL)

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONSTRUCTION DETAILS			
Designed by:	RES.	W.O.	S.T.
Drawn by:			
Checked by:	PR # 14413		Sheet 12 of ##



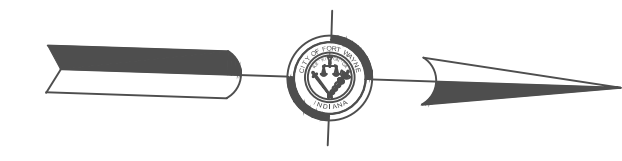
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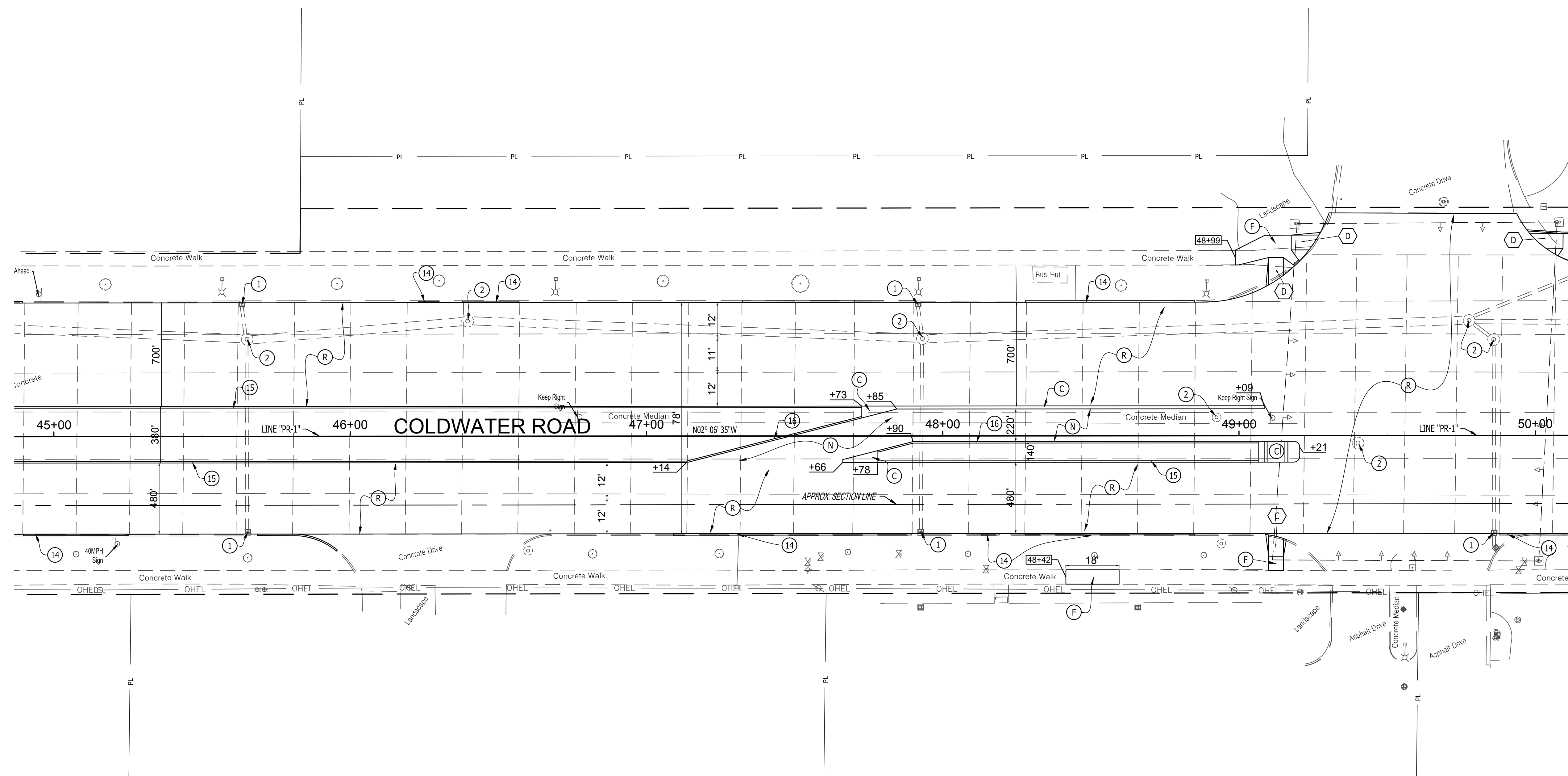
- NOTES:
1. SEE RAISED MEDIAN NOSE, LEFT-TURN LANE BAY TAPER AND PEDESTRIAN REFUGE AREA DETAILS ON SHEET NO. 30
  2. EXISTING TRANSVERSE PAVEMENT JOINTS ARE SPACED APPROXIMATELY SHOWN ON THE PLANS (BETWEEN 18'-20')
  3. THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.
  4. THE PROPOSED TRAVEL LANE PROFILE GRADE OF THE NEW PAVEMENT OVERLAY SHALL BE 1" ABOVE THE EXISTING PROFILE GRADE

LEGEND	
(B)	HMA FOR APPROACHES, TYPE B 165 #/SY HMA SURFACE, TYPE B ON VARIABLE DEPTH OF ASPHALT MILLING CONCRETE CENTER CURB TYPE "C", (MODIFIED)
(C)	CONCRETE CENTER CURB TYPE "C", (MODIFIED)
(F)	CONCRETE SIDEWALK, 4"
(N)	165 #/SY HMA SURFACE, TYPE C ON 220 #/SY HMA INTERMEDIATE, TYPE C ON 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE NO. 53
(R)	165 #/SY HMA SURFACE, TYPE C, ON 220 #/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
(XX)	CURB RAMP TYPE "XX"
(1)	EXISTING INLET IN PLACE, ADJUST CASTING TO GRADE
(2)	EXISTING MH IN PLACE, ADJUST CASTING TO GRADE
(14)	CONCRETE CURB TYPE II-A (SEE DETAIL)
(15)	CONCRETE CURB TYPE II-A (MODIFIED-SEE DETAIL)
(16)	CONCRETE CURB TYPE III

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONSTRUCTION DETAILS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 13 of ##		



SCALE: 1"=20'



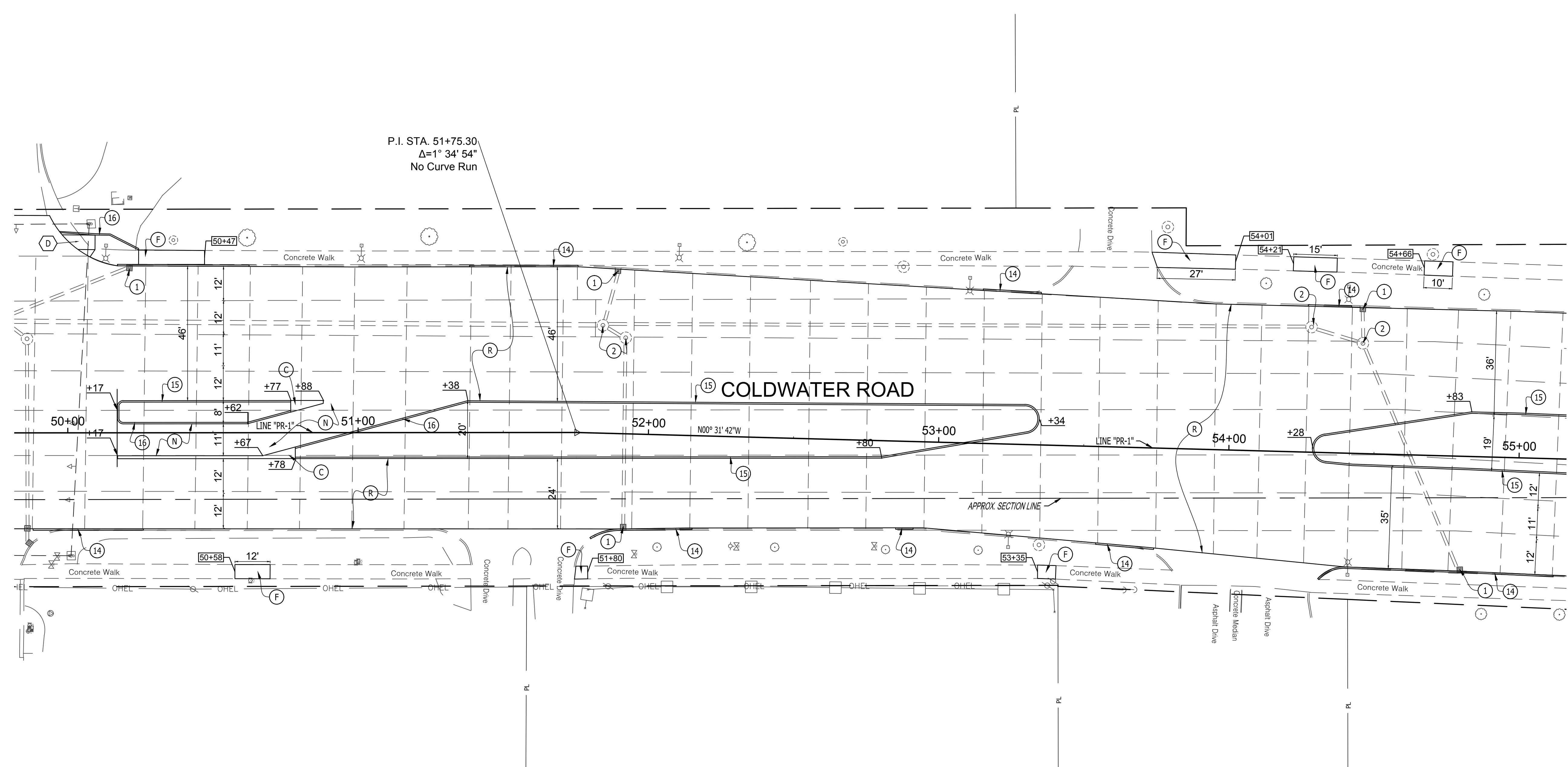
- NOTES:**
1. SEE RAISED MEDIAN NOSE, LEFT-TURN LANE BAY TAPER AND PEDESTRIAN REFUGE AREA DETAILS ON SHEET NO. 30
  2. EXISTING TRANSVERSE PAVEMENT JOINTS ARE SPACED APPROXIMATELY SHOWN ON THE PLANS (BETWEEN 18'-20')
  3. THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.
  4. THE PROPOSED TRAVEL LANE PROFILE GRADE OF THE NEW PAVEMENT OVERLAY SHALL BE 1" ABOVE THE EXISTING PROFILE GRADE

LEGEND	
(C)	CONCRETE CENTER CURB TYPE "C", (MODIFIED)
(F)	CONCRETE SIDEWALK, 4"
(N)	165 #/SY HMA SURFACE, TYPE C ON 220 #/SY HMA INTERMEDIATE, TYPE C ON 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE NO. 53
(R)	165 #/SY HMA SURFACE, TYPE C, ON 220 #/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
(XX)	CURB RAMP TYPE "XX"
(1)	EXISTING INLET IN PLACE, ADJUST CASTING TO GRADE
(2)	EXISTING MH IN PLACE, ADJUST CASTING TO GRADE
(14)	CONCRETE CURB TYPE II-A (SEE DETAIL)
(15)	CONCRETE CURB TYPE II-A (MODIFIED-SEE DETAIL)
(16)	CONCRETE CURB TYPE III

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONSTRUCTION DETAILS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 14 of ##		



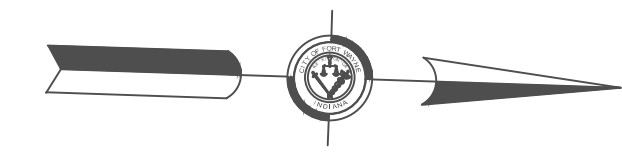
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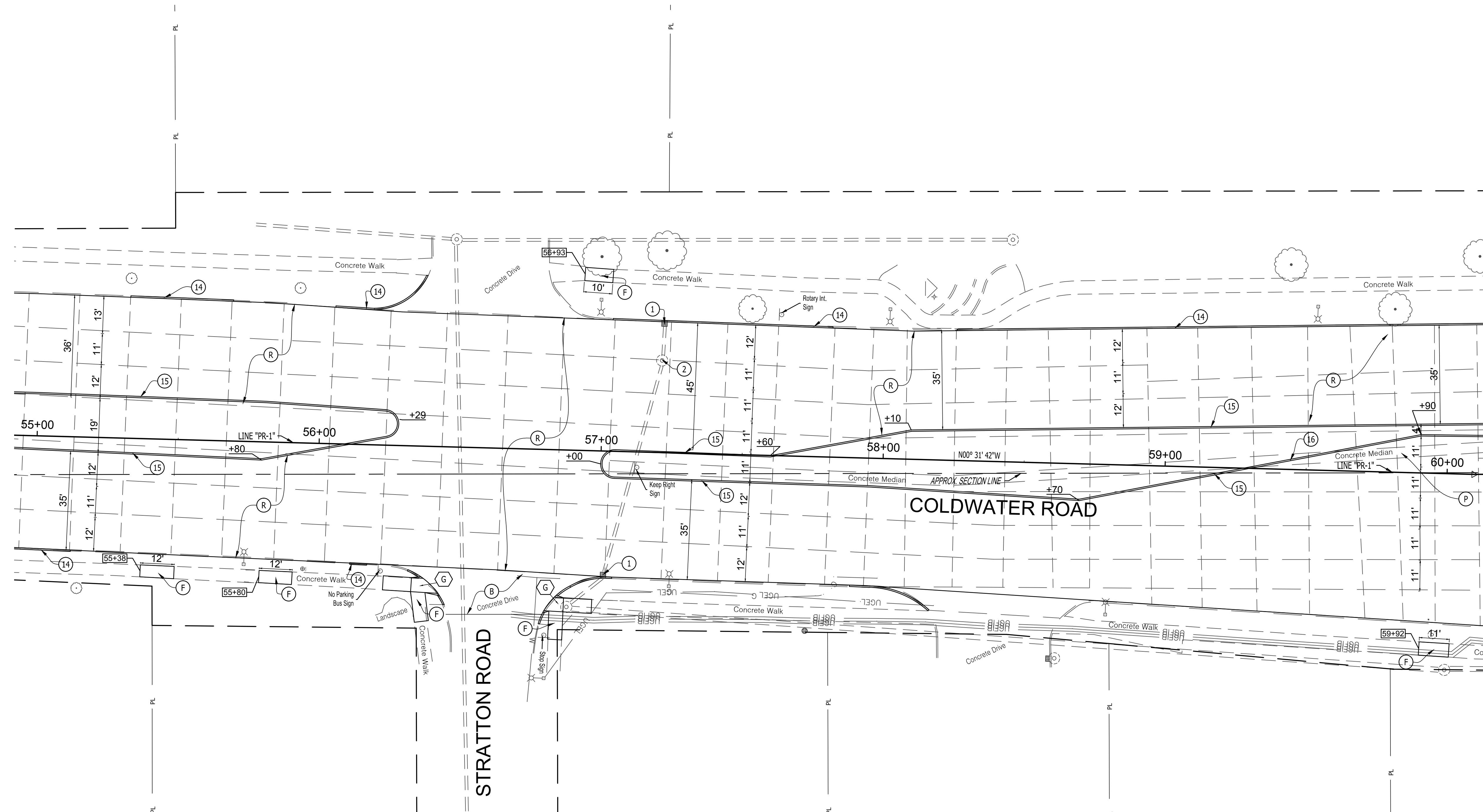
- NOTES:
1. SEE RAISED MEDIAN NOSE, LEFT-TURN LANE BAY TAPER AND PEDESTRIAN REFUGE AREA DETAILS ON SHEET NO. 30
  2. EXISTING TRANSVERSE PAVEMENT JOINTS ARE SPACED APPROXIMATELY SHOWN ON THE PLANS (BETWEEN 18'-20')
  3. THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.
  4. THE PROPOSED TRAVEL LANE PROFILE GRADE OF THE NEW PAVEMENT OVERLAY SHALL BE 1" ABOVE THE EXISTING PROFILE GRADE

LEGEND	
(F)	CONCRETE SIDEWALK, 4"
(N)	165 #/SY HMA SURFACE, TYPE C ON 220 #/SY HMA INTERMEDIATE, TYPE C ON 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE NO. 53
(R)	165 #/SY HMA SURFACE, TYPE C, ON 220 #/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
(1)	EXISTING INLET IN PLACE, ADJUST CASTING TO GRADE
(2)	EXISTING MH IN PLACE, ADJUST CASTING TO GRADE
(14)	CONCRETE CURB TYPE II-A (SEE DETAIL)
(15)	CONCRETE CURB TYPE II-A (MODIFIED-SEE DETAIL)
(16)	CONCRETE CURB TYPE III

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONSTRUCTION DETAILS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 15 of ##		



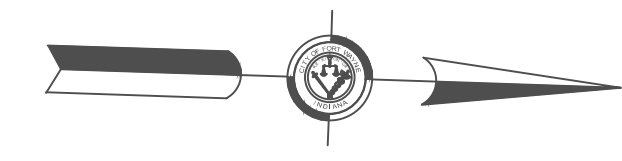
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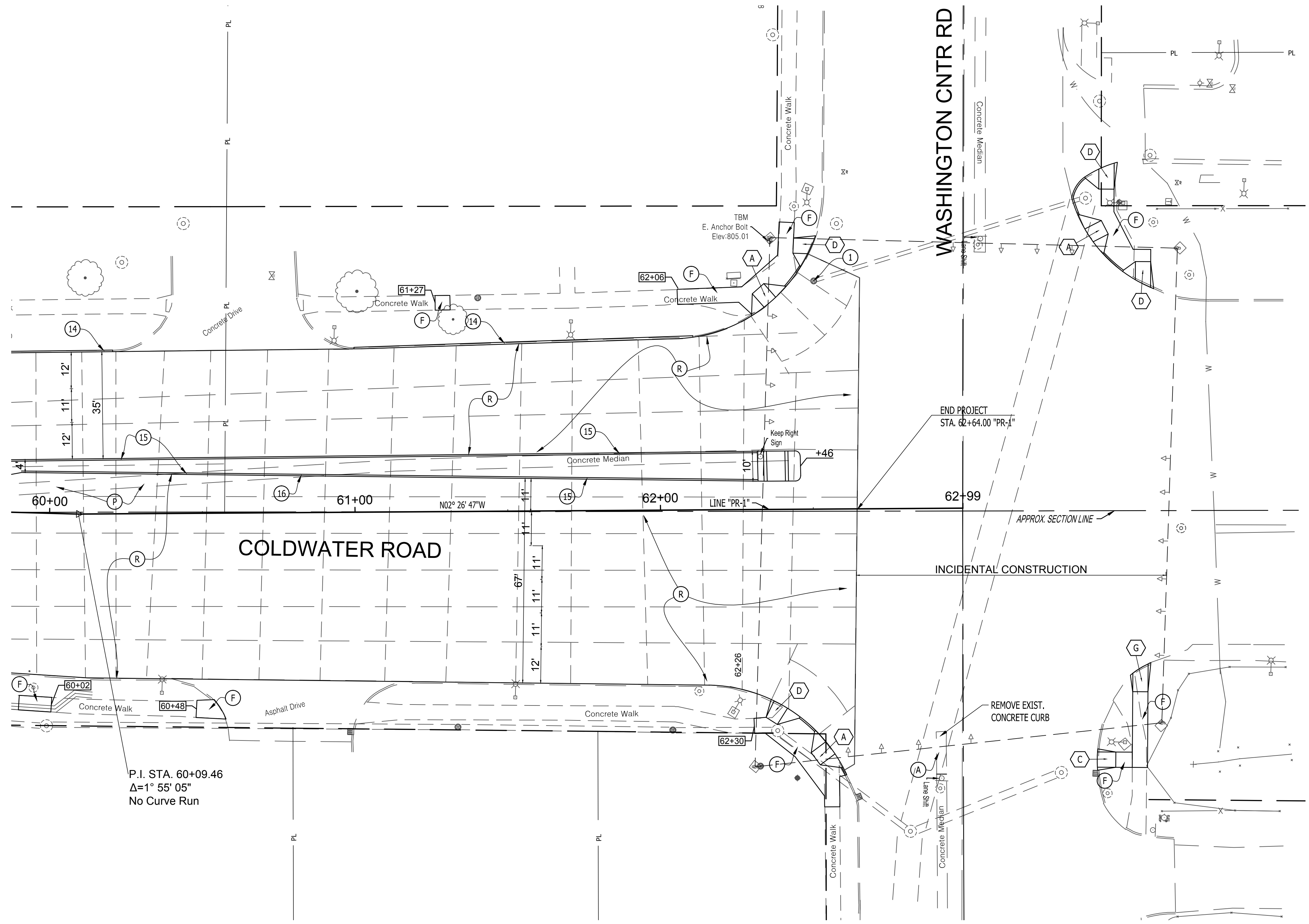
- NOTES:
1. SEE RAISED MEDIAN NOSE, LEFT-TURN LANE BAY TAPER AND PEDESTRIAN REFUGE AREA DETAILS ON SHEET NO. 30
  2. EXISTING TRANSVERSE PAVEMENT JOINTS ARE SPACED APPROXIMATELY SHOWN ON THE PLANS (BETWEEN 18'-20')
  3. THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.
  4. THE PROPOSED TRAVEL LANE PROFILE GRADE OF THE NEW PAVEMENT OVERLAY SHALL BE 1" ABOVE THE EXISTING PROFILE GRADE

LEGEND	
(B)	HMA FOR APPROACHES, TYPE B 165 #/SY HMA SURFACE, TYPE B ON VARIABLE DEPTH OF ASPHALT MILLING
(F)	CONCRETE SIDEWALK, 4"
(P)	HMA FOR PATCHING 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 53
(R)	165 #/SY HMA SURFACE, TYPE C, ON 220 #/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
(XX)	CURB RAMP TYPE "XX"
(1)	EXISTING INLET IN PLACE, ADJUST CASTING TO GRADE
(2)	EXISTING MH IN PLACE, ADJUST CASTING TO GRADE
(14)	CONCRETE CURB TYPE II-A (SEE DETAIL)
(15)	CONCRETE CURB TYPE II-A (MODIFIED-SEE DETAIL)

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONSTRUCTION DETAILS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 16 of ##		



SCALE: 1"=20'

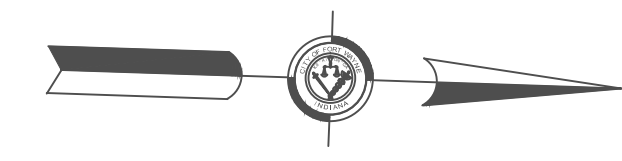
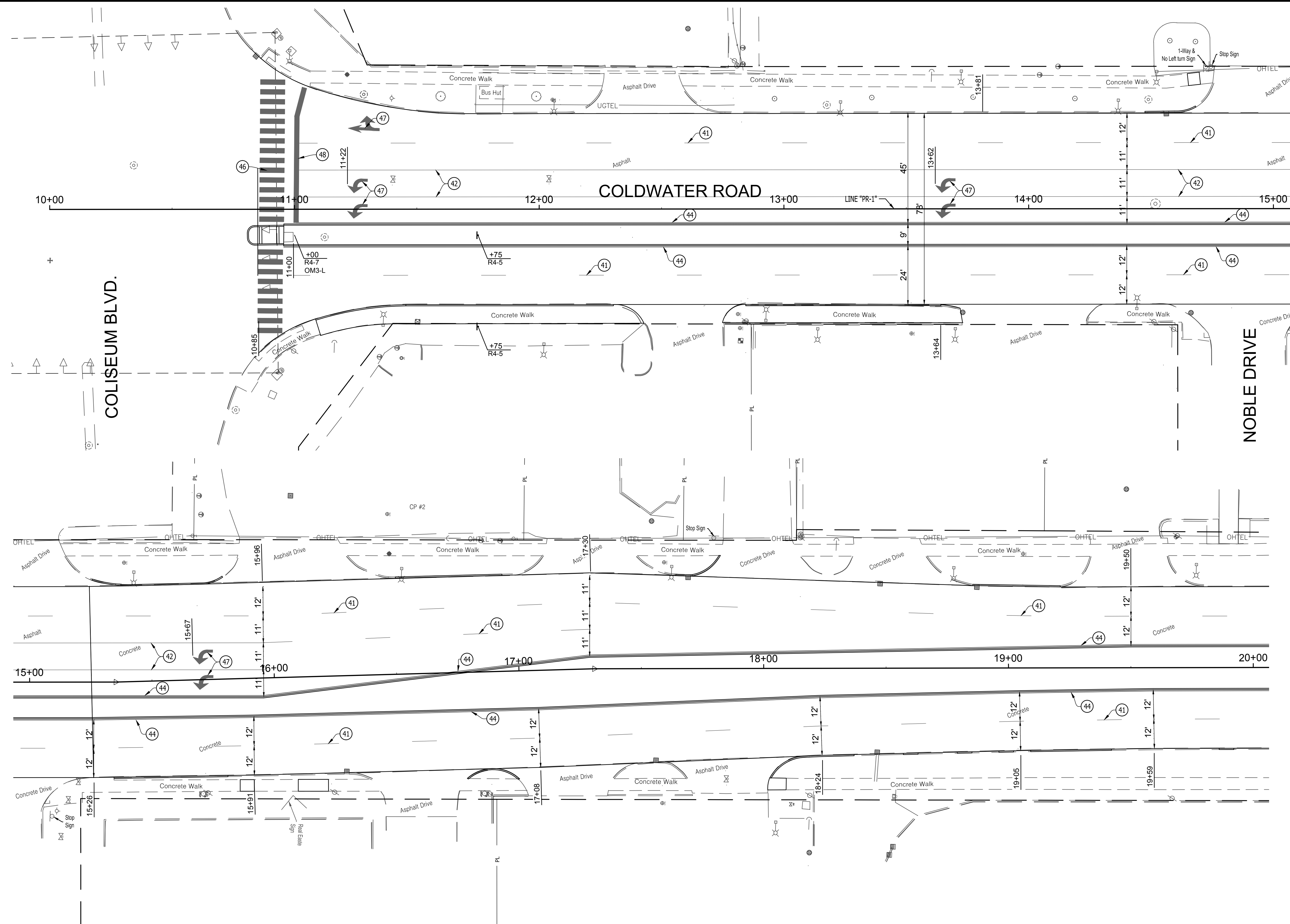


NOTES:  
 1. SEE RAISED MEDIAN NOSE, LEFT-TURN LANE BAY TAPER AND PEDESTRIAN REFUGE AREA DETAILS ON SHEET NO. 30  
 2. EXISTING TRANSVERSE PAVEMENT JOINTS ARE SPACED APPROXIMATELY SHOWN ON THE PLANS (BETWEEN 18'-20')  
 3. THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.  
 4. THE PROPOSED TRAVEL LANE PROFILE GRADE OF THE NEW PAVEMENT OVERLAY SHALL BE 1" ABOVE THE EXISTING PROFILE GRADE

LEGEND	
(A)	PLAIN CONCRETE PAVEMENT, 7.5"
(F)	CONCRETE SIDEWALK, 4"
(R)	165 #/SY HMA SURFACE, TYPE C, ON 220#/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
(P)	HMA FOR PATCHING 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 53
(XX)	CURB RAMP TYPE "XX"
(1)	EXISTING INLET IN PLACE, ADJUST CASTING TO GRADE
(14)	CONCRETE CURB TYPE II-A (SEE DETAIL)
(15)	CONCRETE CURB TYPE II-A (MODIFIED-SEE DETAIL)
(16)	CONCRETE CURB TYPE III

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONSTRUCTION DETAILS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 17 of ##		

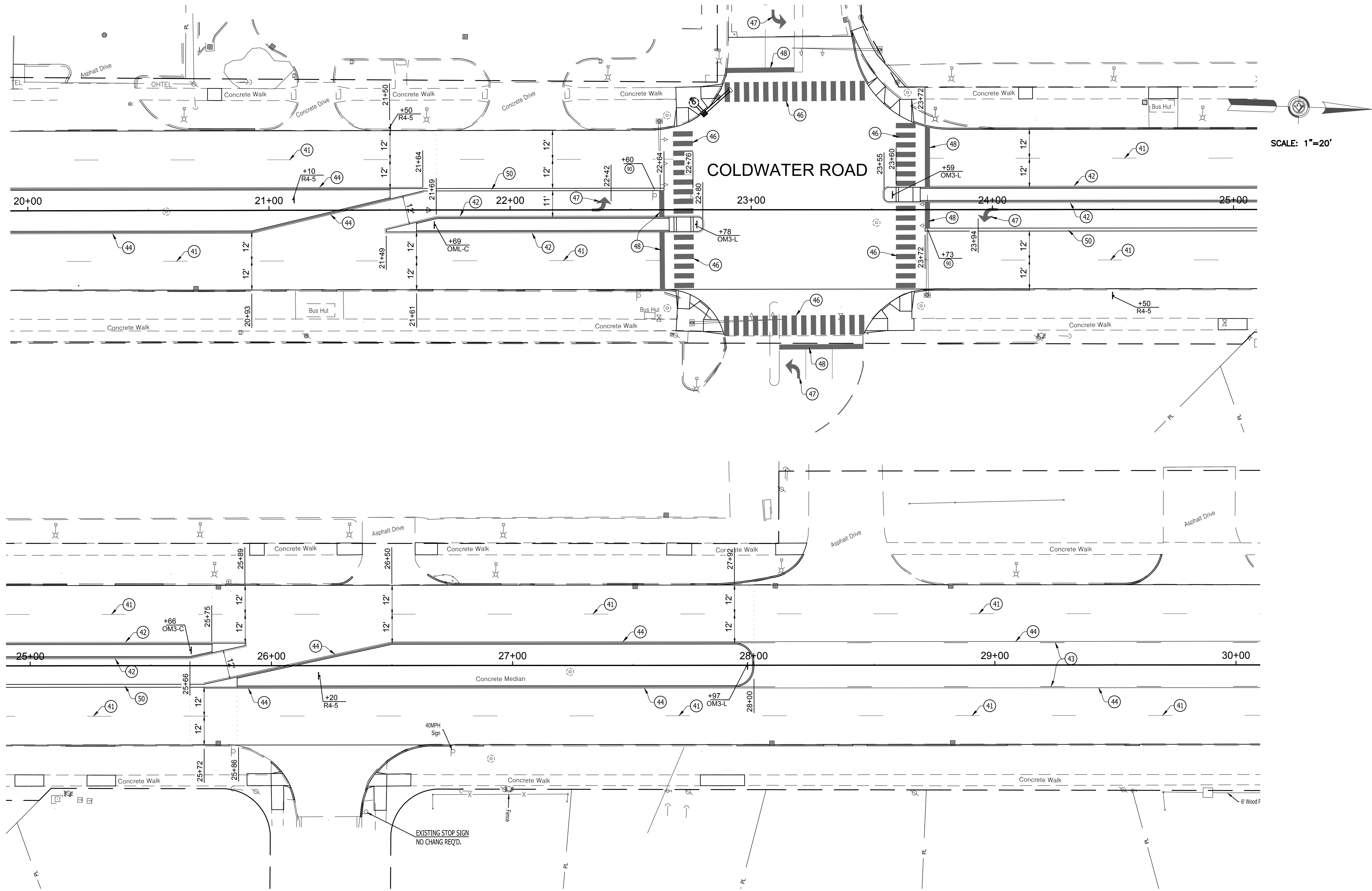




SCALE: 1"=20'

LEGEND	
(41) LINE, EPOXY PAINT, BROKEN WHITE, 4"	(48) TRANSVERSE MARKINGS, EPOXY PAINT, STOP LINE, 24 IN
(42) LINE, EPOXY PAINT, SOLID WHITE, 4"	(50) CENTER CURB PAINT, YELLOW
(43) LINE, EPOXY PAINT, BROKEN YELLOW, 4"	(90) DELINEATOR POST, WITH OBJECT MARKER, OM2-2V
(44) LINE, EPOXY PAINT, SOLID YELLOW, 4"	— GROUND MOUNTED SHEET SIGN
(46) PAVEMENT MESSAGE MARKING, EPOXY PAINT, CROSSWALK, @ 24 IN O.C.	
(47) PAVEMENT MESSAGE MARKING, EPOXY PAINT, LANE INDICATION ARROW	

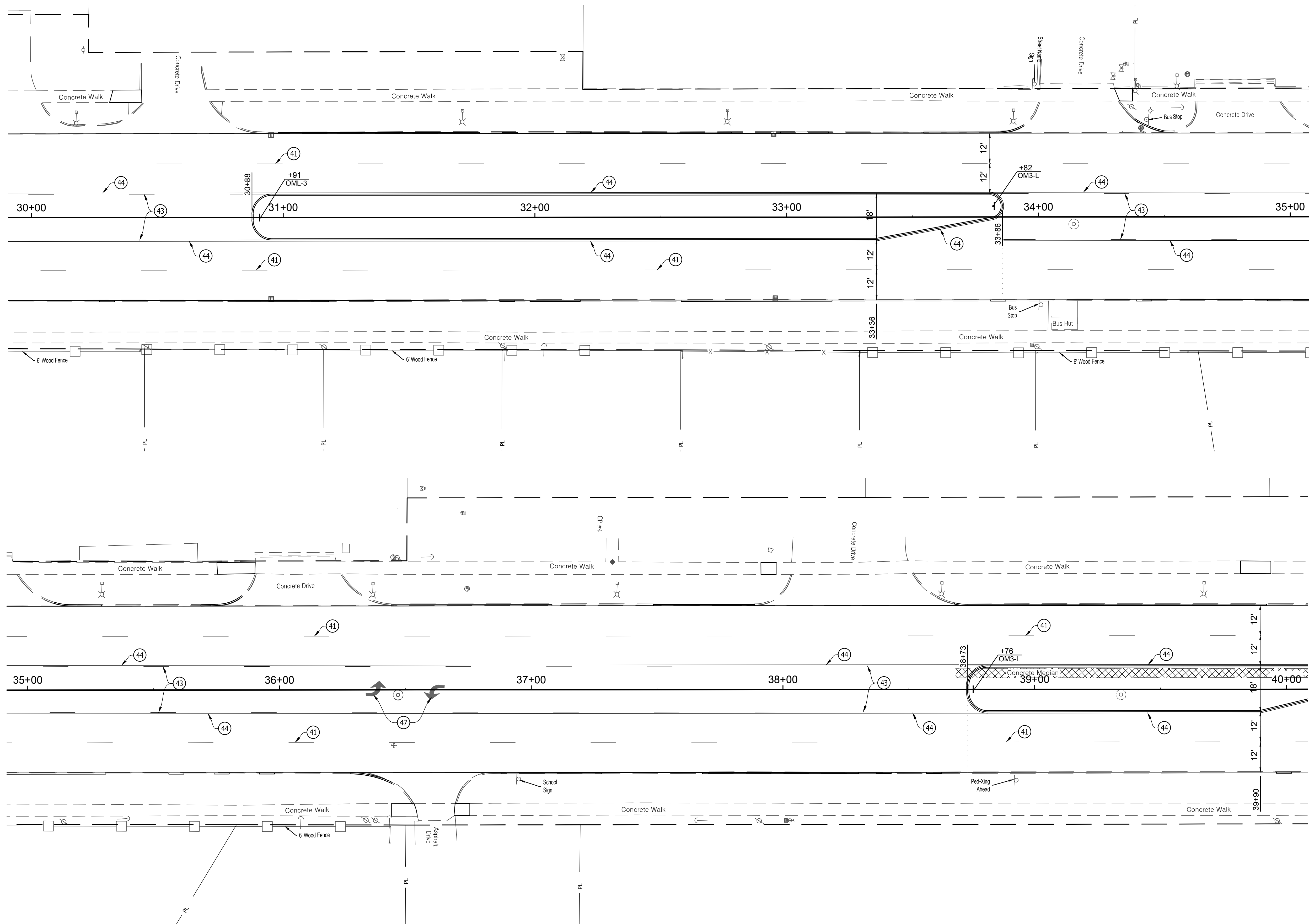
COLDWATER ROAD CONCRETE STREET REHABILITATION			
PAVEMENT MARKINGS & SIGNS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 18 of ##		



SCALE: 1"=20'

LEGEND	
④1	LINE, EPOXY PAINT, BROKEN WHITE, 4"
④2	LINE, EPOXY PAINT, SOLID WHITE, 4"
④3	LINE, EPOXY PAINT, BROKEN YELLOW, 4"
④4	LINE, EPOXY PAINT, SOLID YELLOW, 4"
④6	PAVEMENT MESSAGE MARKING, EPOXY PAINT, CROSSWALK, @ 24 IN O.C.
④7	PAVEMENT MESSAGE MARKING, EPOXY PAINT, LANE INDICATION ARROW
④8	TRANSVERSE MARKINGS, EPOXY PAINT, STOP LINE, 24 IN
⑤0	CENTER CURB PAINT, YELLOW
⑨0	DELINEATOR POST, WITH OBJECT MARKER, OM2-ZV
—	GROUND MOUNTED SHEET SIGN

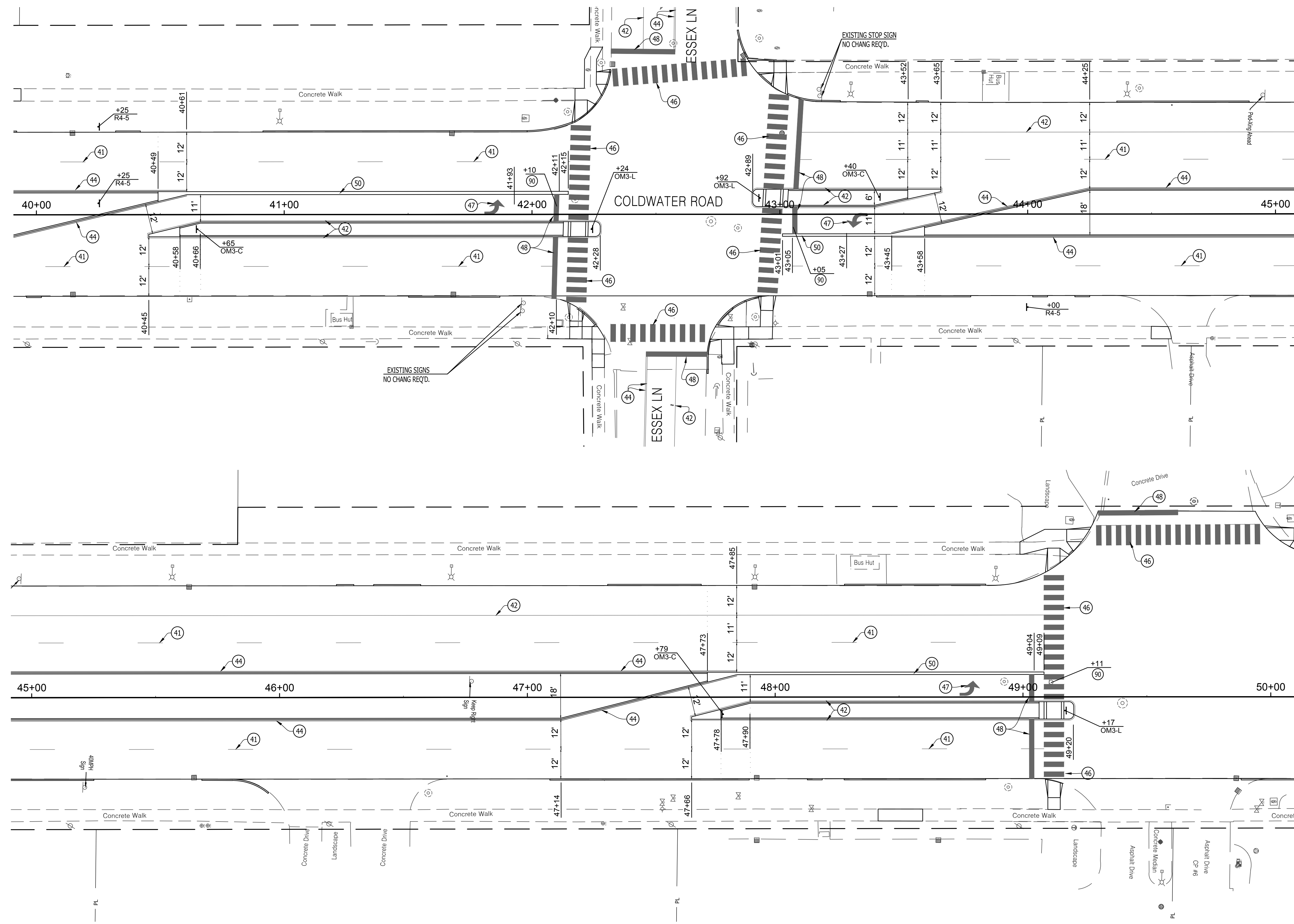
COLDWATER ROAD			
CONCRETE STREET REHABILITATION			
PAVEMENT MARKINGS & SIGNS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 19 of ##		



SCALE: 1"=20'

LEGEND	
(41)	LINE, EPOXY PAINT, BROKEN WHITE, 4"
(43)	LINE, EPOXY PAINT, BROKEN YELLOW, 4"
(44)	LINE, EPOXY PAINT, SOLID YELLOW, 4"
(47)	PAVEMENT MESSAGE MARKING, EPOXY PAINT, LANE INDICATION ARROW
—	GROUND MOUNTED SHEET SIGN

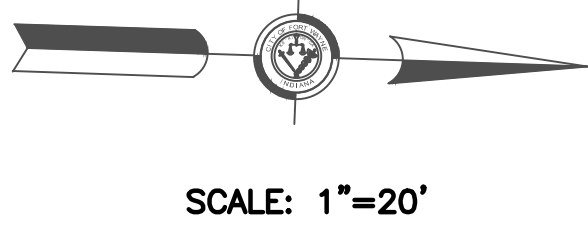
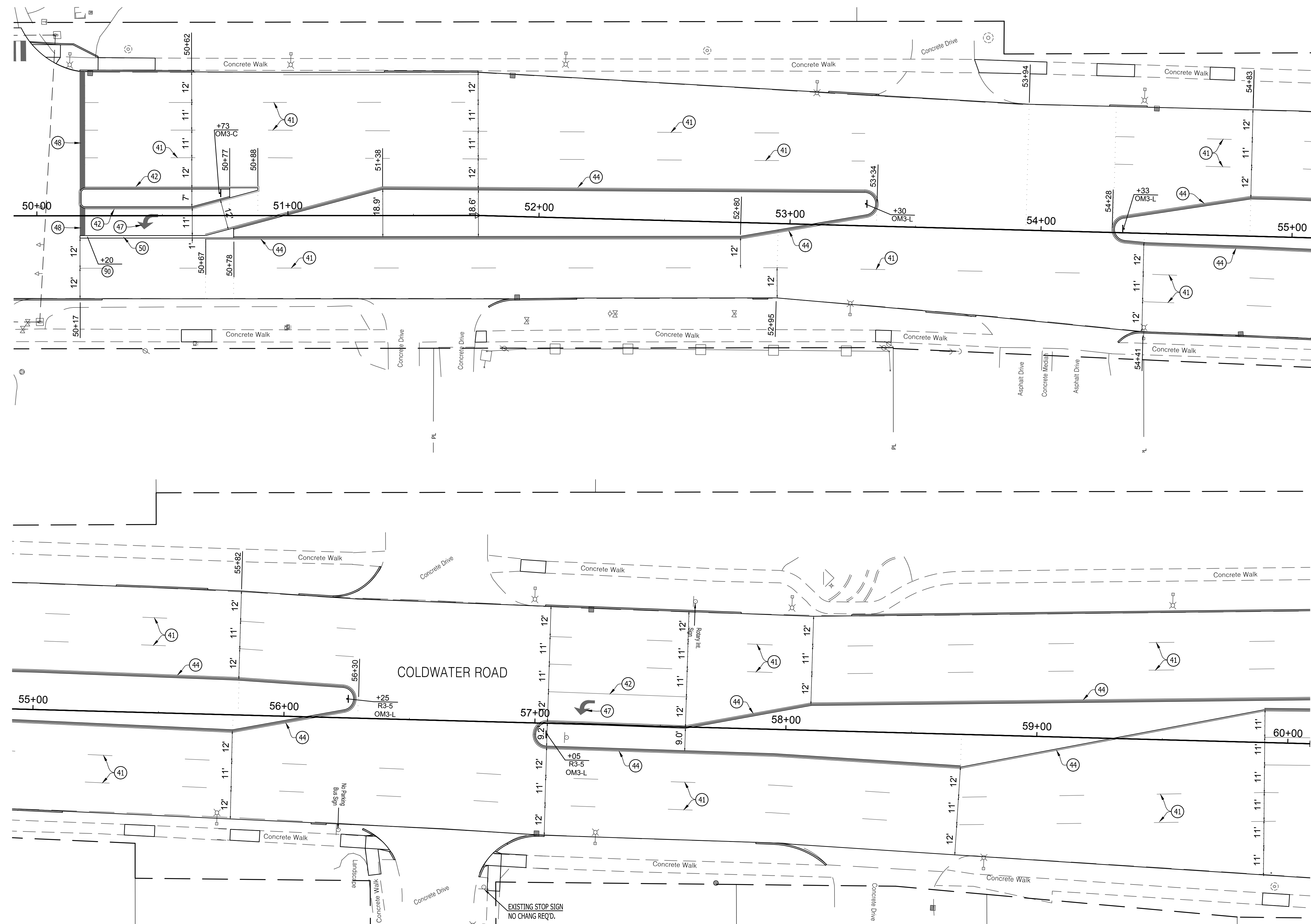
COLDWATER ROAD CONCRETE STREET REHABILITATION			
PAVEMENT MARKINGS & SIGNS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 20 of ##		



SCALE: 1"=20'

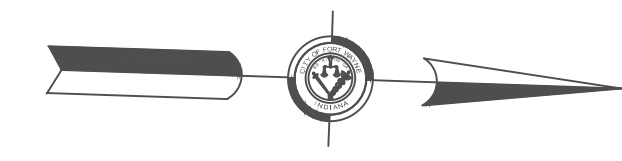
LEGEND	
(41) LINE, EPOXY PAINT, BROKEN WHITE, 4"	(48) TRANSVERSE MARKINGS, EPOXY PAINT, STOP LINE, 24 IN
(42) LINE, EPOXY PAINT, SOLID WHITE, 4"	(50) CENTER CURB PAINT, YELLOW
(43) LINE, EPOXY PAINT, BROKEN YELLOW, 4"	(90) DELINEATOR POST, WITH OBJECT MARKER, OM2-ZV
(44) LINE, EPOXY PAINT, SOLID YELLOW, 4"	— GROUND MOUNTED SHEET SIGN
(46) PAVEMENT MESSAGE MARKING, EPOXY PAINT, CROSSWALK, @ 24 IN O.C.	
(47) PAVEMENT MESSAGE MARKING, EPOXY PAINT, LANE INDICATION ARROW	

COLDWATER ROAD CONCRETE STREET REHABILITATION			
PAVEMENT MARKINGS & SIGNS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet ## of ##		

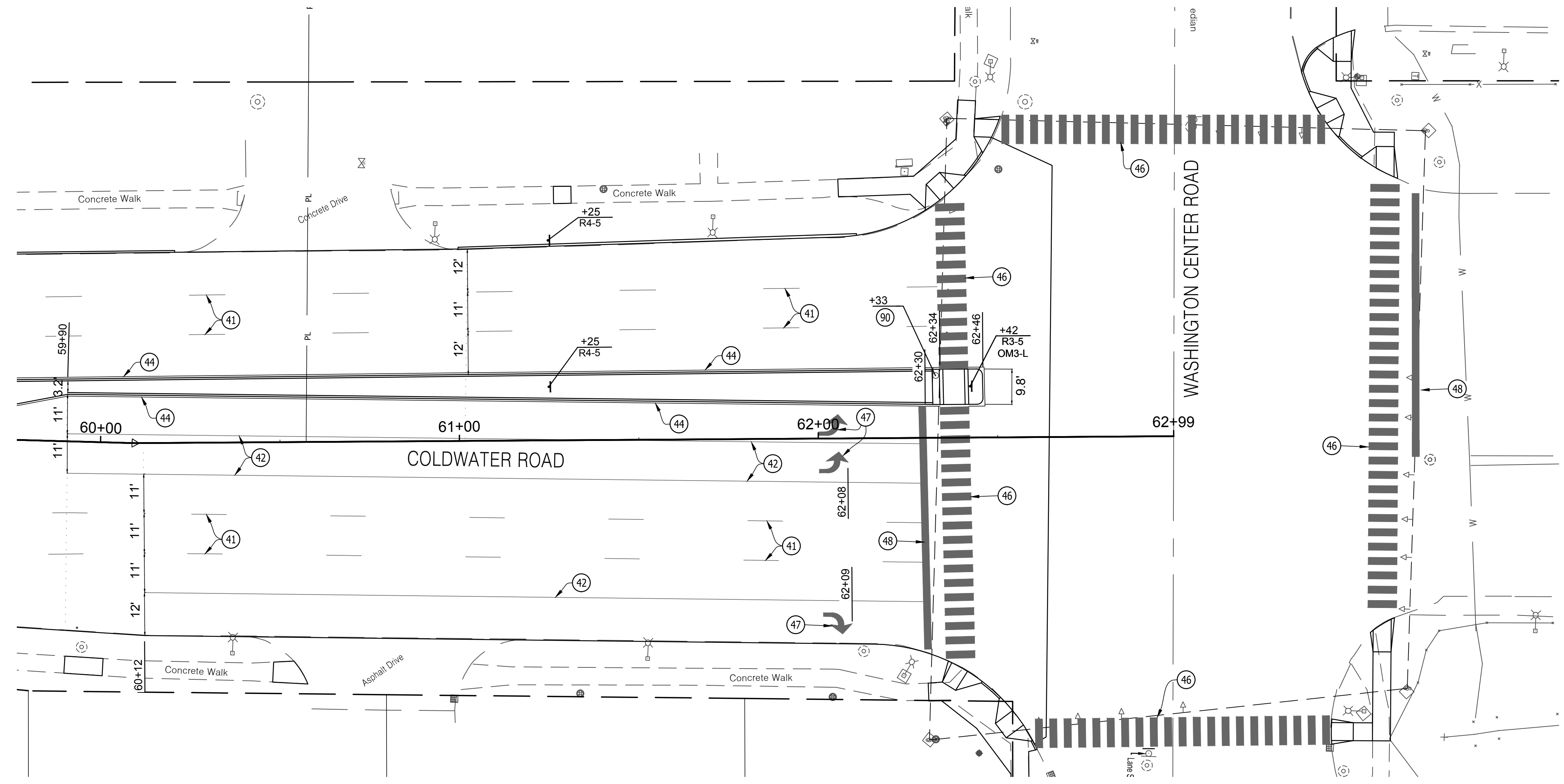


LEGEND	
(41) LINE, EPOXY PAINT, BROKEN WHITE, 4"	(48) TRANSVERSE MARKINGS, EPOXY PAINT, STOP LINE, 24 IN
(42) LINE, EPOXY PAINT, SOLID WHITE, 4"	(50) CENTER CURB PAINT, YELLOW
(43) LINE, EPOXY PAINT, BROKEN YELLOW, 4"	(90) DELINEATOR POST, WITH OBJECT MARKER, OM2-ZV
(44) LINE, EPOXY PAINT, SOLID YELLOW, 4"	— GROUND MOUNTED SHEET SIGN
(46) PAVEMENT MESSAGE MARKING, EPOXY PAINT, CROSSWALK, @ 24 IN O.C.	
(47) PAVEMENT MESSAGE MARKING, EPOXY PAINT, LANE INDICATION ARROW	

COLDWATER ROAD CONCRETE STREET REHABILITATION			
PAVEMENT MARKINGS & SIGNS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 22 of ##		

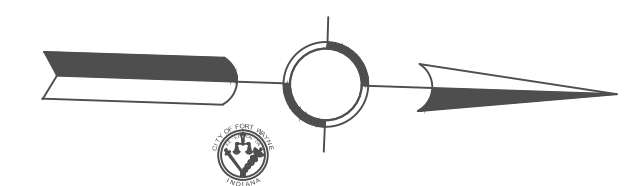
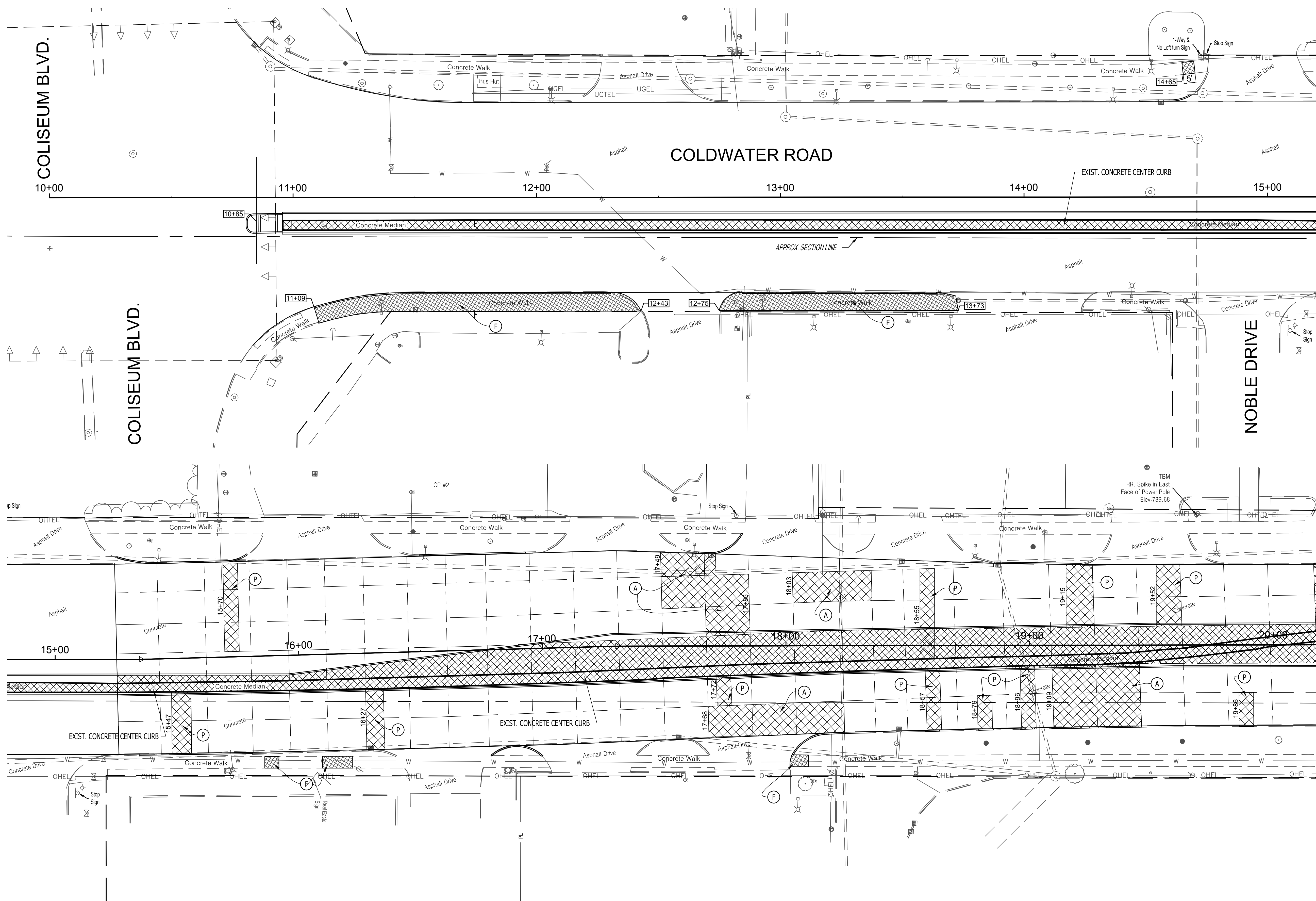


SCALE: 1"=20'



LEGEND	
(41) LINE, EPOXY PAINT, BROKEN WHITE, 4"	(48) TRANSVERSE MARKINGS, EPOXY PAINT, STOP LINE, 24 IN
(42) LINE, EPOXY PAINT, SOLID WHITE, 4"	(49) CENTER CURB PAINT, YELLOW
(43) LINE, EPOXY PAINT, BROKEN YELLOW, 4"	(50) DELINEATOR POST, WITH OBJECT MARKER, OM2-ZV
(44) LINE, EPOXY PAINT, SOLID YELLOW, 4"	— GROUND MOUNTED SHEET SIGN
(46) PAVEMENT MESSAGE MARKING, EPOXY PAINT, CROSSWALK, @ 24 IN O.C.	
(47) PAVEMENT MESSAGE MARKING, EPOXY PAINT, LANE INDICATION ARROW	

COLDWATER ROAD CONCRETE STREET REHABILITATION			
PAVEMENT MARKINGS & SIGNS			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 23 of ##		

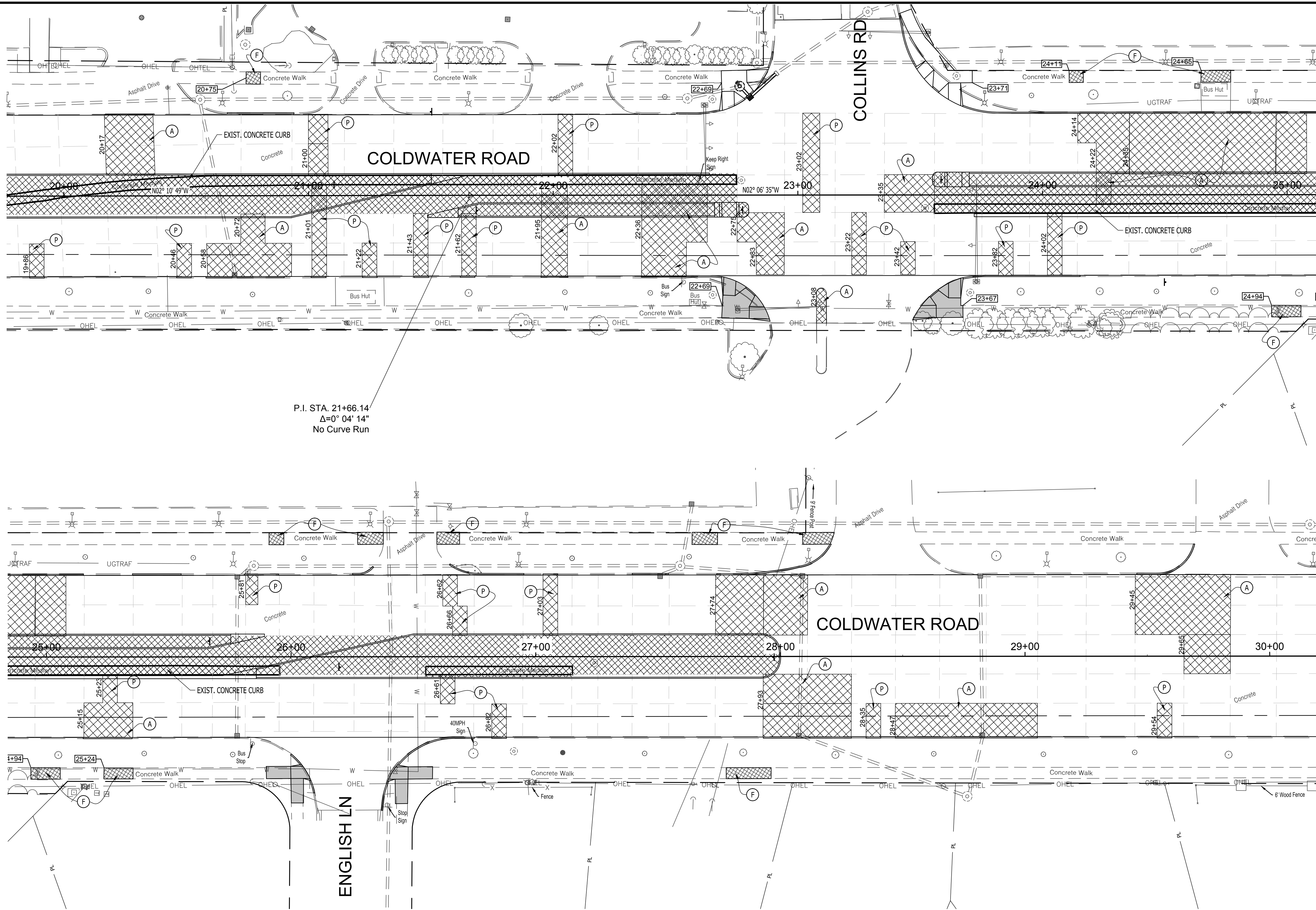


SCALE: 1"=20'

LEGEND	
(A)	PLAIN CONCRETE PAVEMENT, 7.5"
(F)	CONCRETE SIDEWALK, 4"
(P)	HMA FOR PATCHING 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 53
	CONCRETE REMOVAL

NOTE:  
THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONCRETE REMOVAL			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 24 of ##		



SCALE: 1"=20'

P.I. STA. 21+66.14'  
 $\Delta=0^{\circ} 04' 14''$   
 No Curve Run

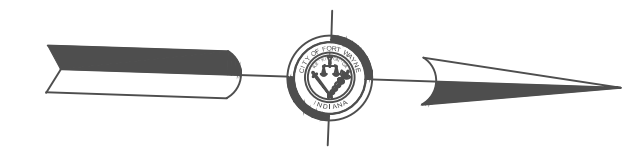
LEGEND

- (A) PLAIN CONCRETE PAVEMENT, 7.5"
- (F) CONCRETE SIDEWALK, 4"
- (P) HMA FOR PATCHING  
 935 #/SY HMA BASE, TYPE C, ON  
 6" COMPACTED AGGREGATE BASE No. 53
- CONCRETE REMOVAL

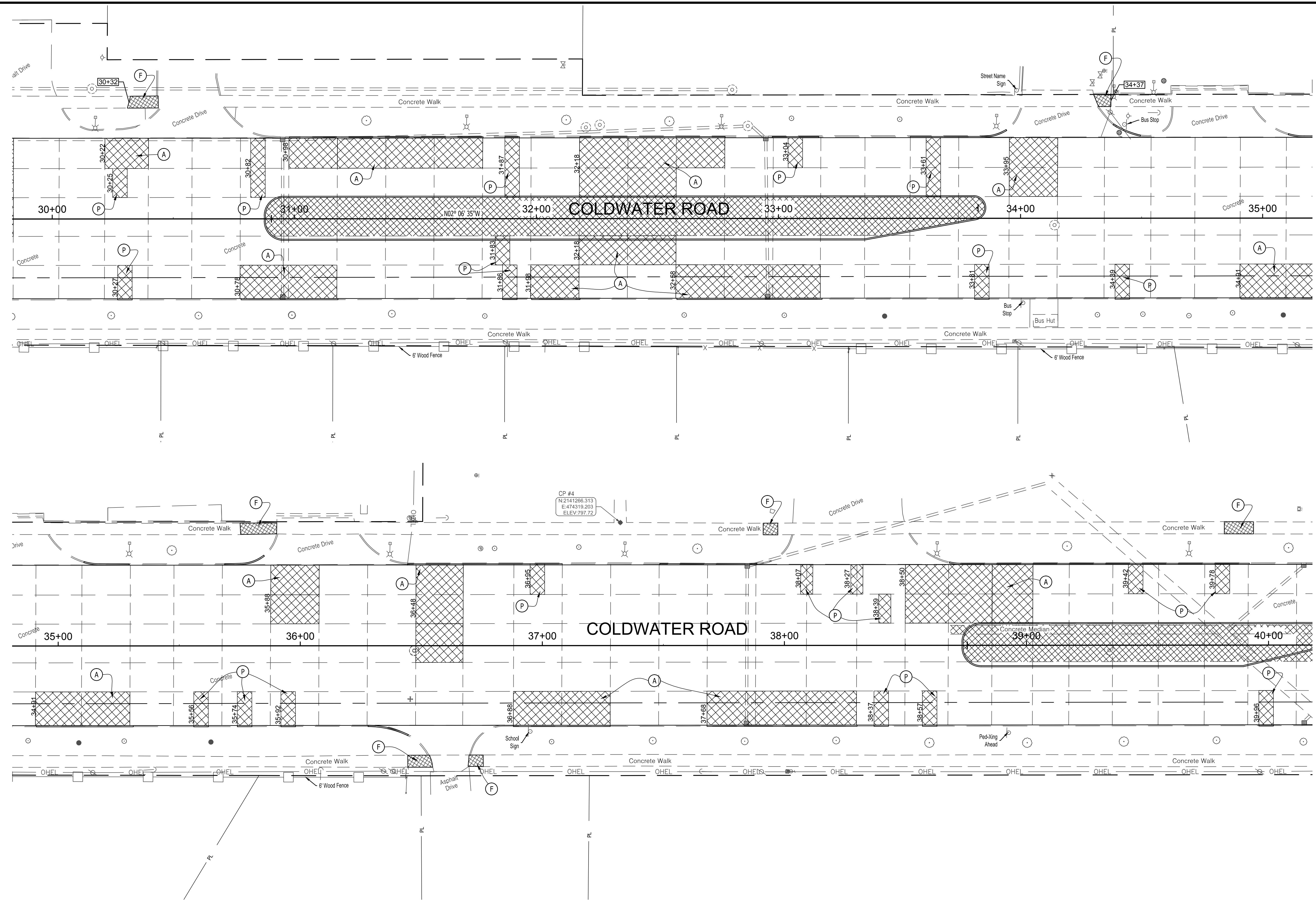
NOTE:  
 THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONCRETE REMOVAL			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		Sheet 25 of ##
Checked by:			





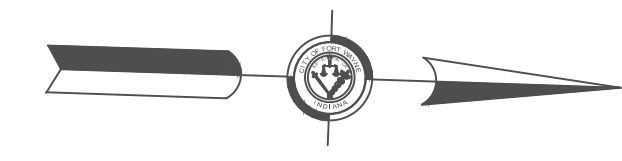
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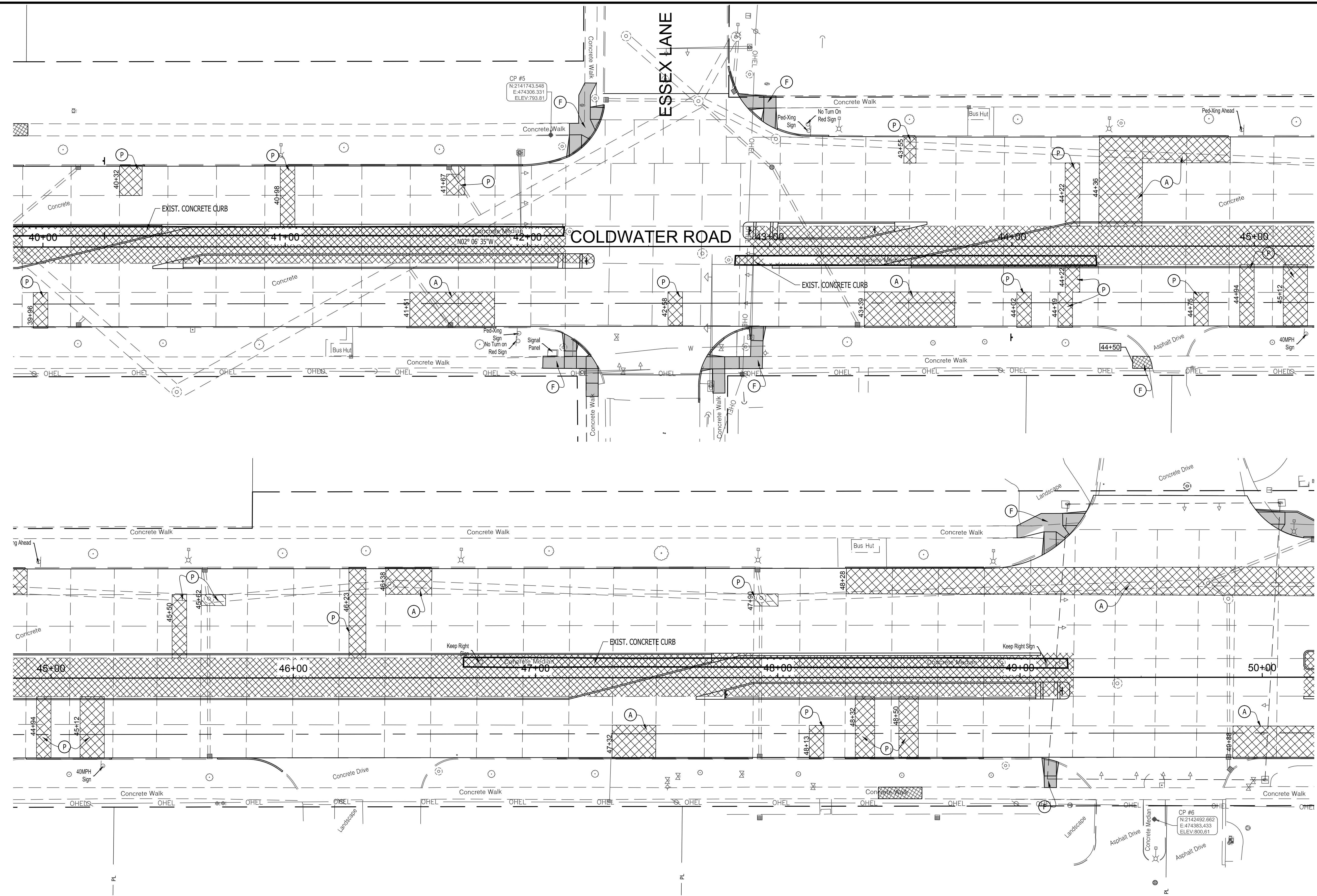
LEGEND	
(A)	PLAIN CONCRETE PAVEMENT, 7.5"
(F)	CONCRETE SIDEWALK, 4"
(P)	HMA FOR PATCHING 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 53
	CONCRETE PAVEMENT & SIDEWALK REMOVAL

**NOTE:**  
THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONCRETE REMOVAL			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 26 of ##		



SCALE: 1"=20'



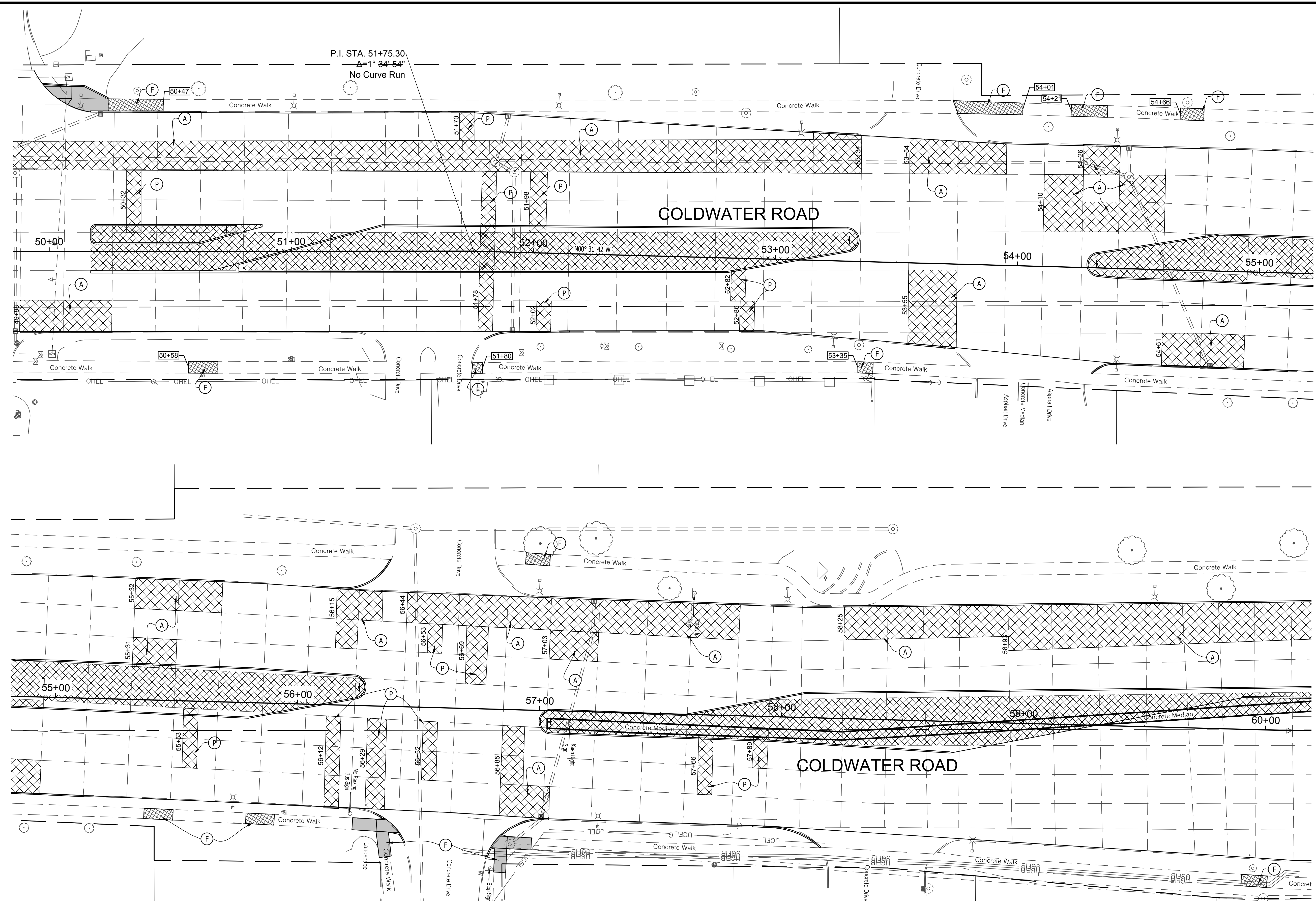
LEGEND	
(A)	PLAIN CONCRETE PAVEMENT, 7.5"
(F)	CONCRETE SIDEWALK, 4"
(P)	HMA FOR PATCHING 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 53
	CONCRETE REMOVAL

NOTE:  
THE EXACT BEGINNING AND END STATIONS OF  
THE CONCRETE PAVEMENT AND SIDEWALK  
REMOVAL AND REPLACEMENT SHALL BE AT  
THE EXISTING JOINTS. FIELD ADJUSTMENTS  
WILL BE REQUIRED AND APPROVED BY THE  
ENGINEER.

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONCRETE REMOVAL			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 27 of ##		



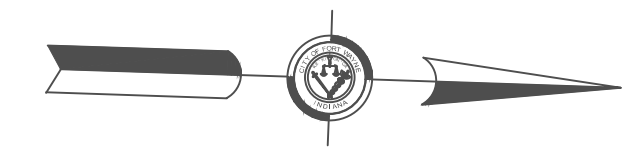
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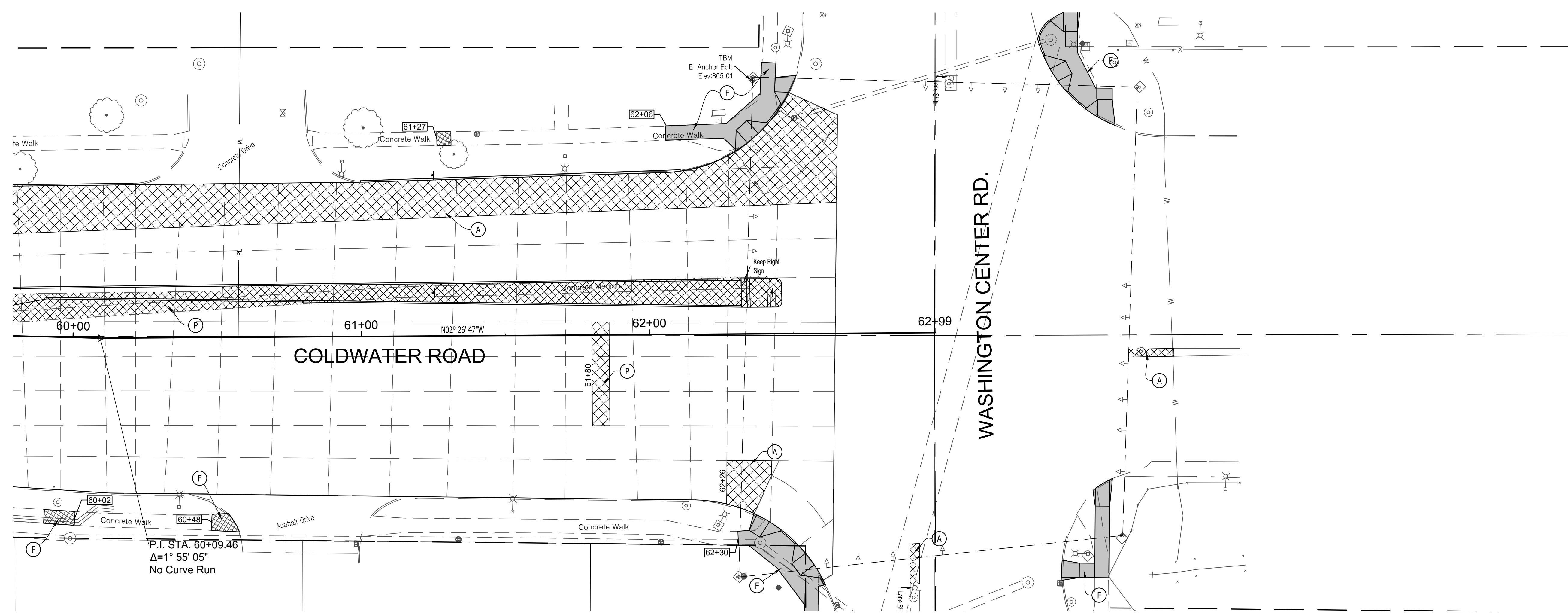
LEGEND	
(A)	PLAIN CONCRETE PAVEMENT, 7.5"
(F)	CONCRETE SIDEWALK, 4"
(P)	HMA FOR PATCHING 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 53
	CONCRETE REMOVAL

NOTE:  
THE EXACT BEGINNING AND END STATIONS  
OF THE CONCRETE PAVEMENT AND  
SIDEWALK REMOVAL AND REPLACEMENT  
SHALL BE AT THE EXISTING JOINTS. FIELD  
ADJUSTMENTS WILL BE REQUIRED AND  
APPROVED BY THE ENGINEER.

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONCRETE REMOVAL			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 28 of ##		



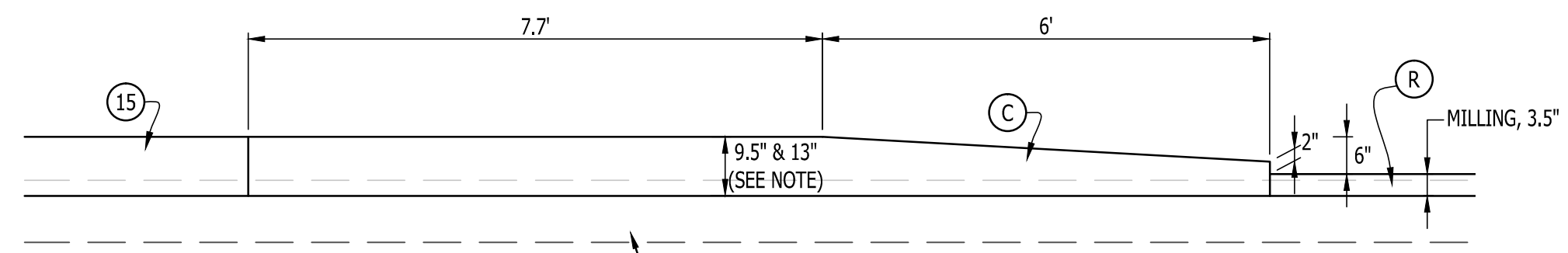
SCALE: 1"=20'



LEGEND	
(A)	PLAIN CONCRETE PAVEMENT, 7.5"
(F)	CONCRETE SIDEWALK, 4"
(P)	HMA FOR PATCHING 935 #/SY HMA BASE, TYPE C, ON 6" COMPACTED AGGREGATE BASE No. 53
	CONCRETE PAVEMENT & SIDEWALK REMOVAL

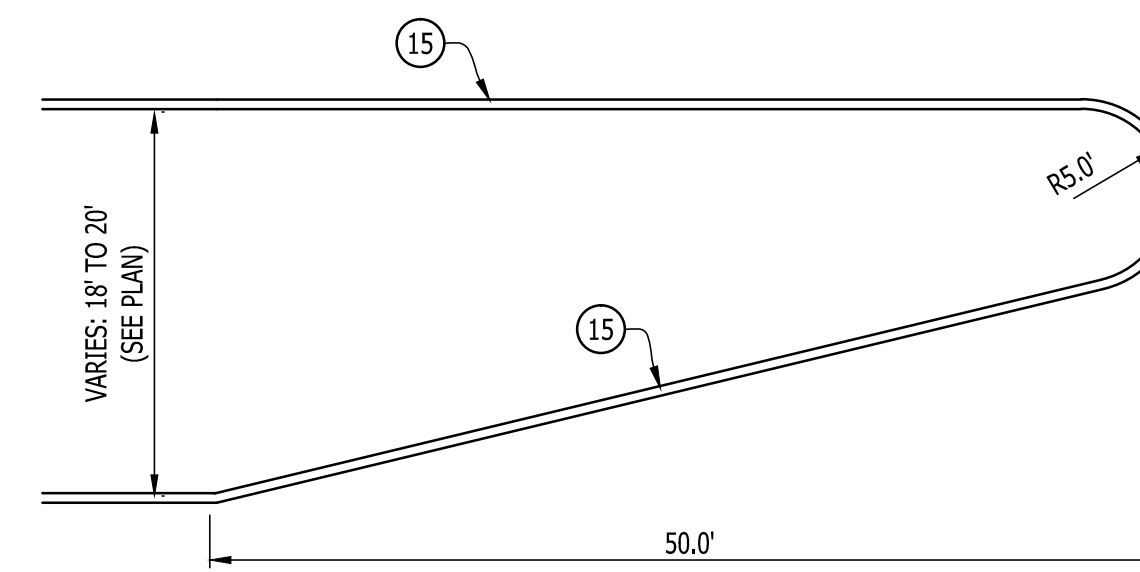
NOTE:  
THE EXACT BEGINNING AND END STATIONS OF THE CONCRETE PAVEMENT AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE AT THE EXISTING JOINTS. FIELD ADJUSTMENTS WILL BE REQUIRED AND APPROVED BY THE ENGINEER.

COLDWATER ROAD CONCRETE STREET REHABILITATION			
CONCRETE REMOVAL			
Designed by:	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by:	Sheet 29 of ##		



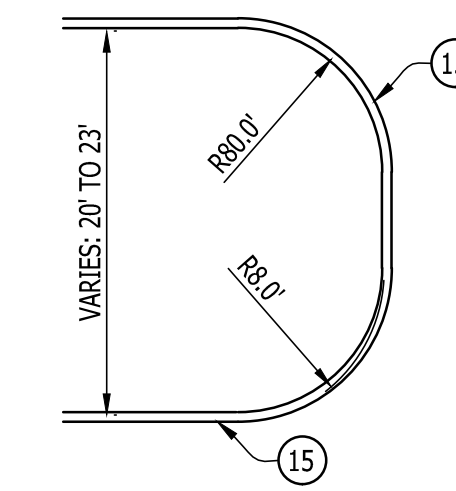
**SECTION 'A-A'**  
SCALE: 1/2" = 1'-0"

NOTES:  
1. 9" THICK WHERE CONSTRUCTS ON EXISTING CONCRETE PAVEMENT  
2. 13" THICK ON 4" COMPACTED AGGREGATE WHERE CONSTRUCTS BEYOND EXISTING CONCRETE PAVEMENT



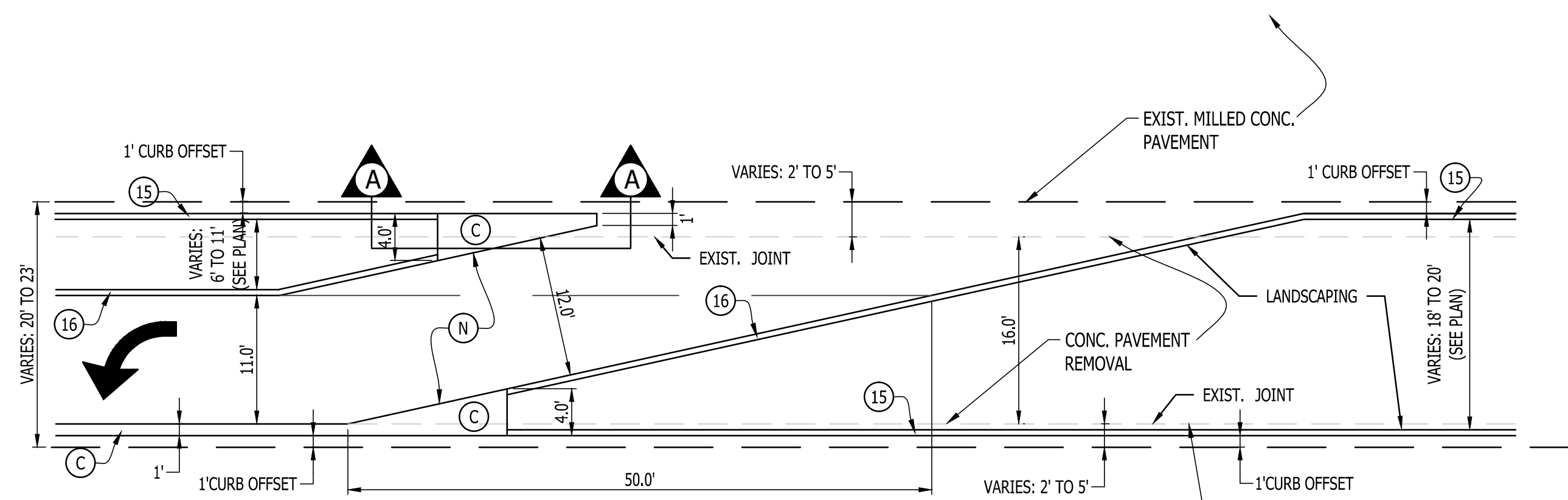
**RAISED MEDIAN NOSE DETAIL**

SCALE: 1" = 10'

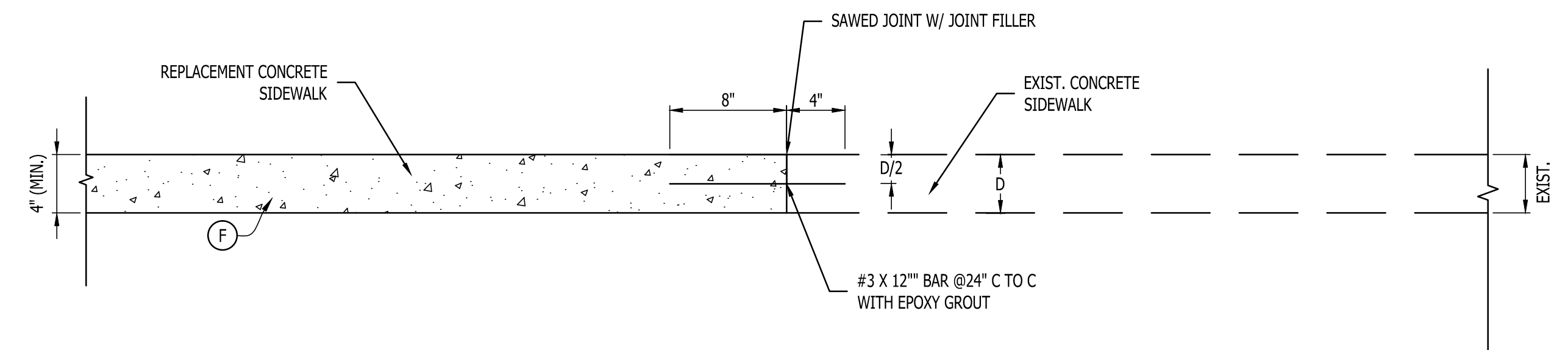


**RAISED MEDIAN NOSE DETAIL**

SCALE: 1" = 10'

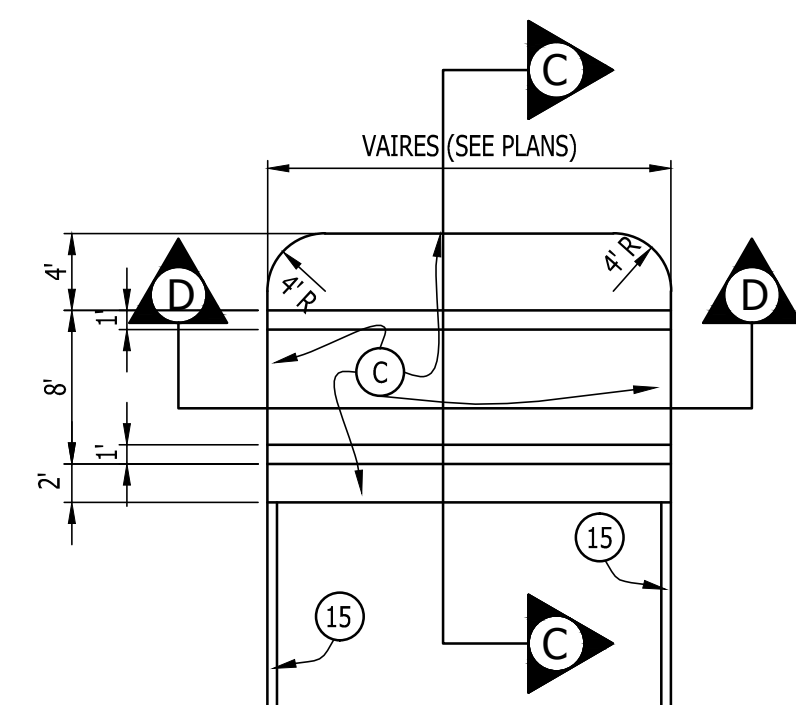


**LEFT TURN BAY PLAN**  
SCALE: 1" = 10'

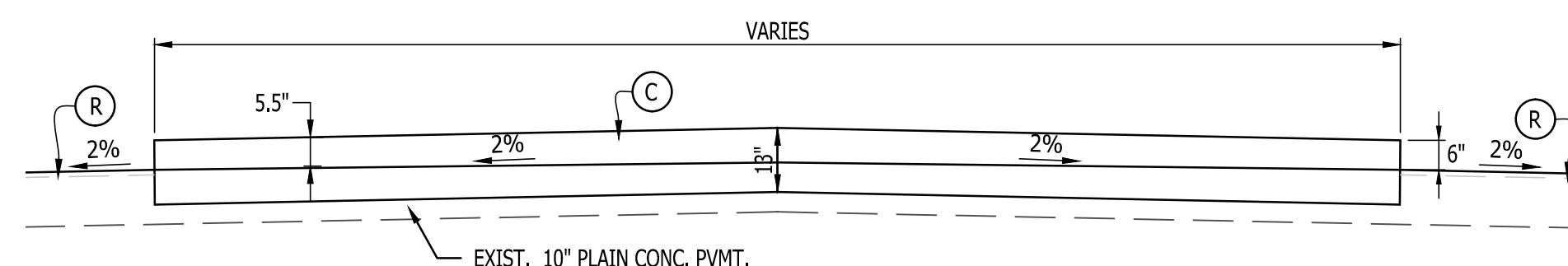


**CONCRETE SIDEWALK REPAIR DETAIL**

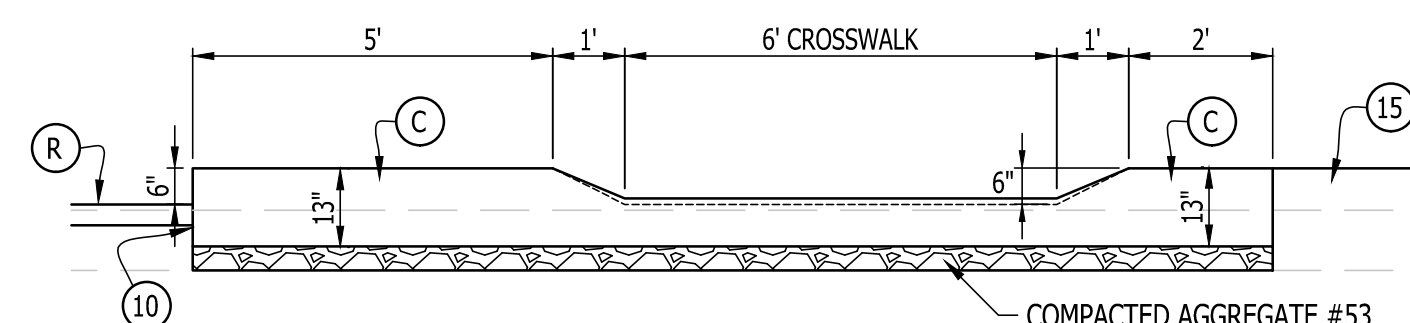
SCALE: 1" = 10'



**REFUGE AREA PLAN**  
SCALE: 1" = 10'



**SECTION 'D-D'**  
SCALE: 3/8" = 1'-0"



**SECTION 'C-C'**  
SCALE: 3/8" = 1'-0"

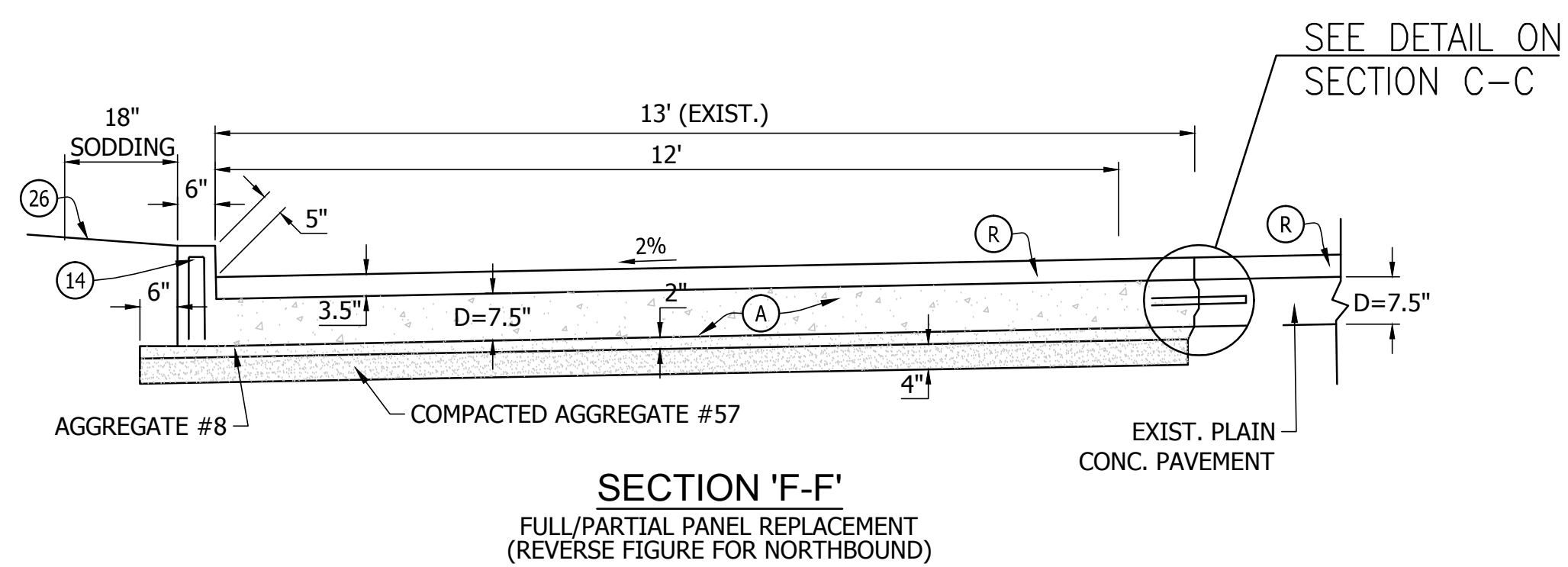
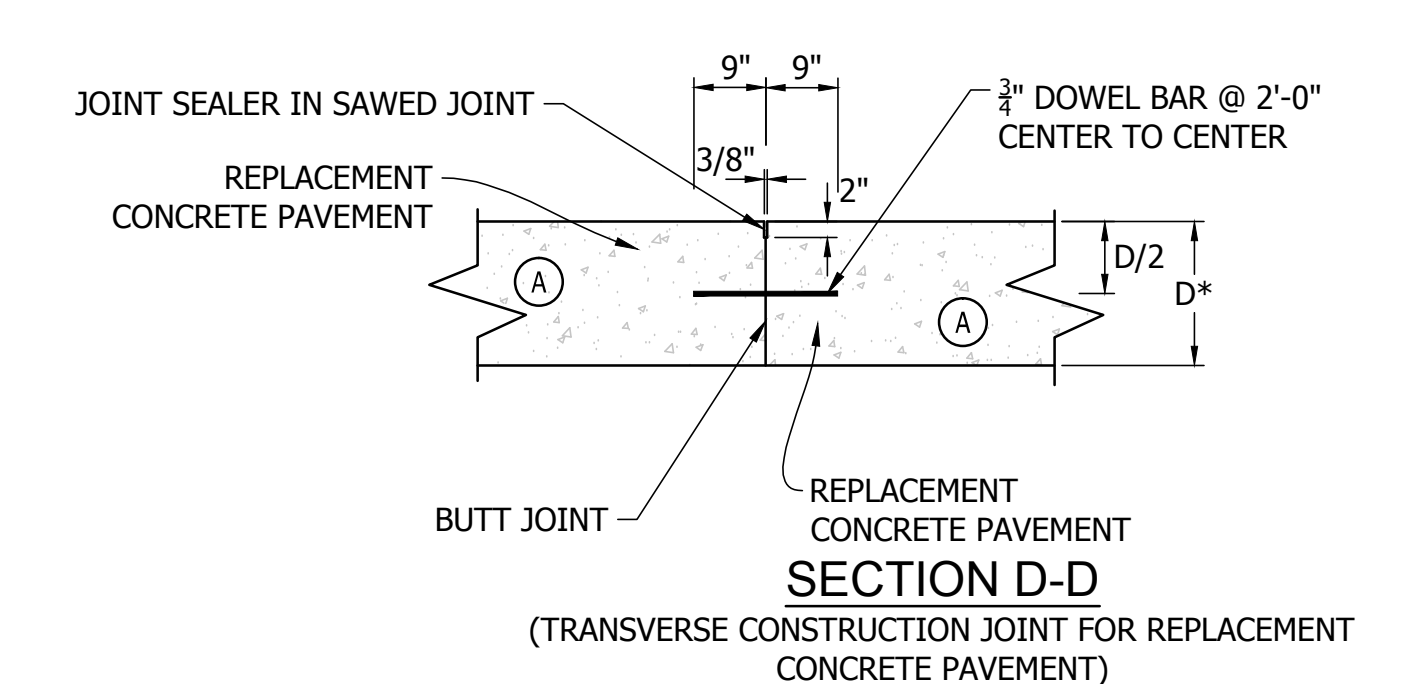
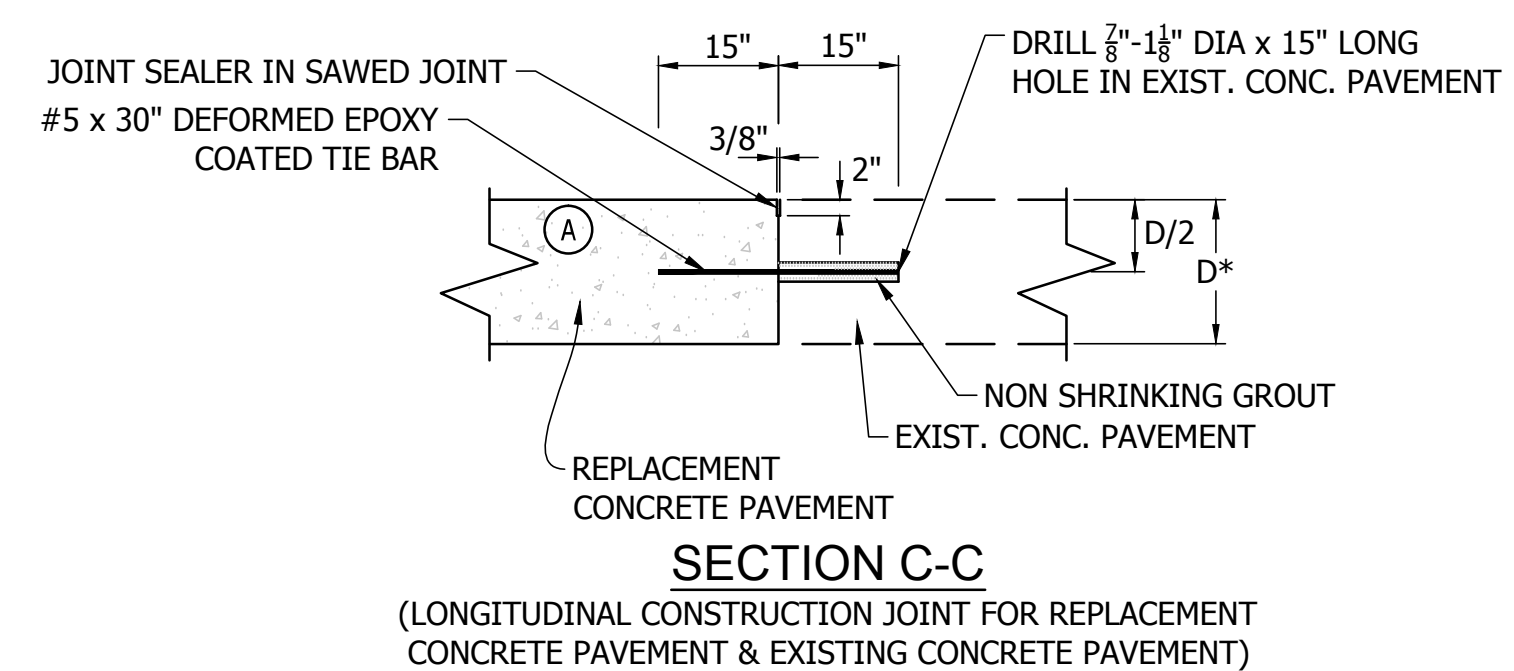
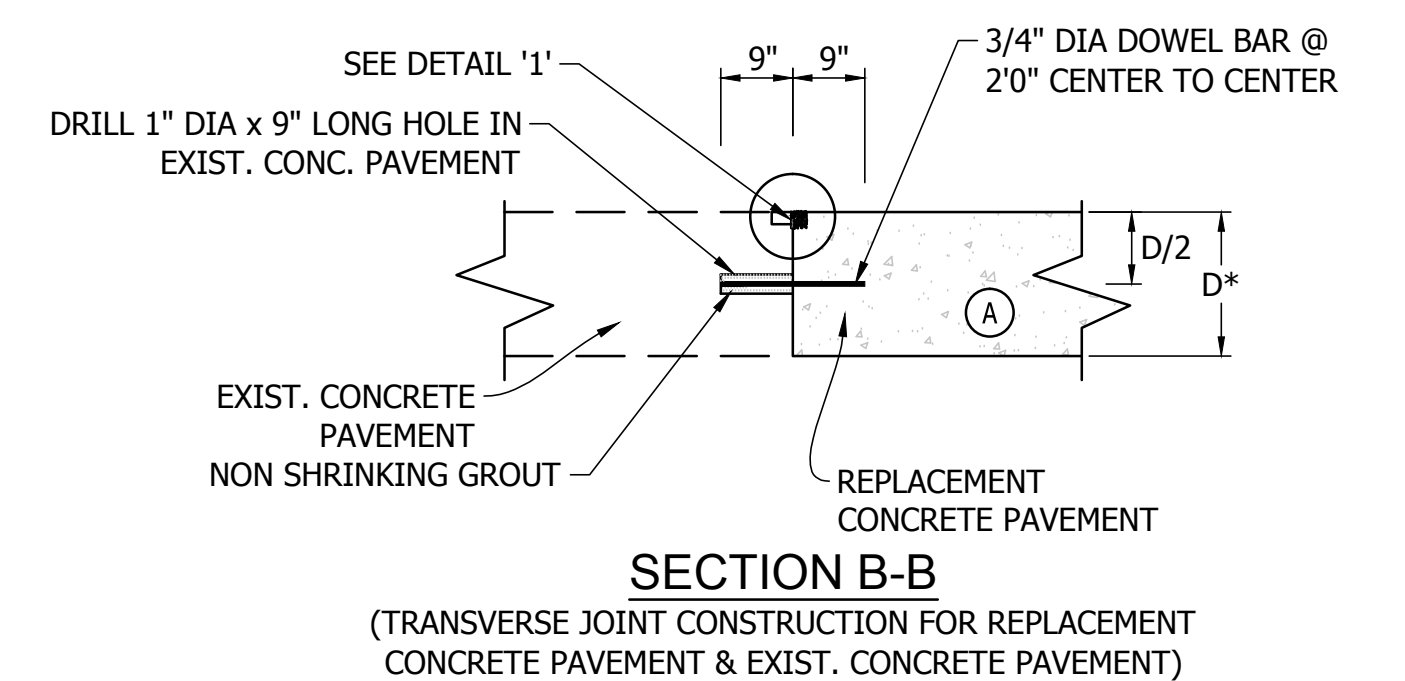
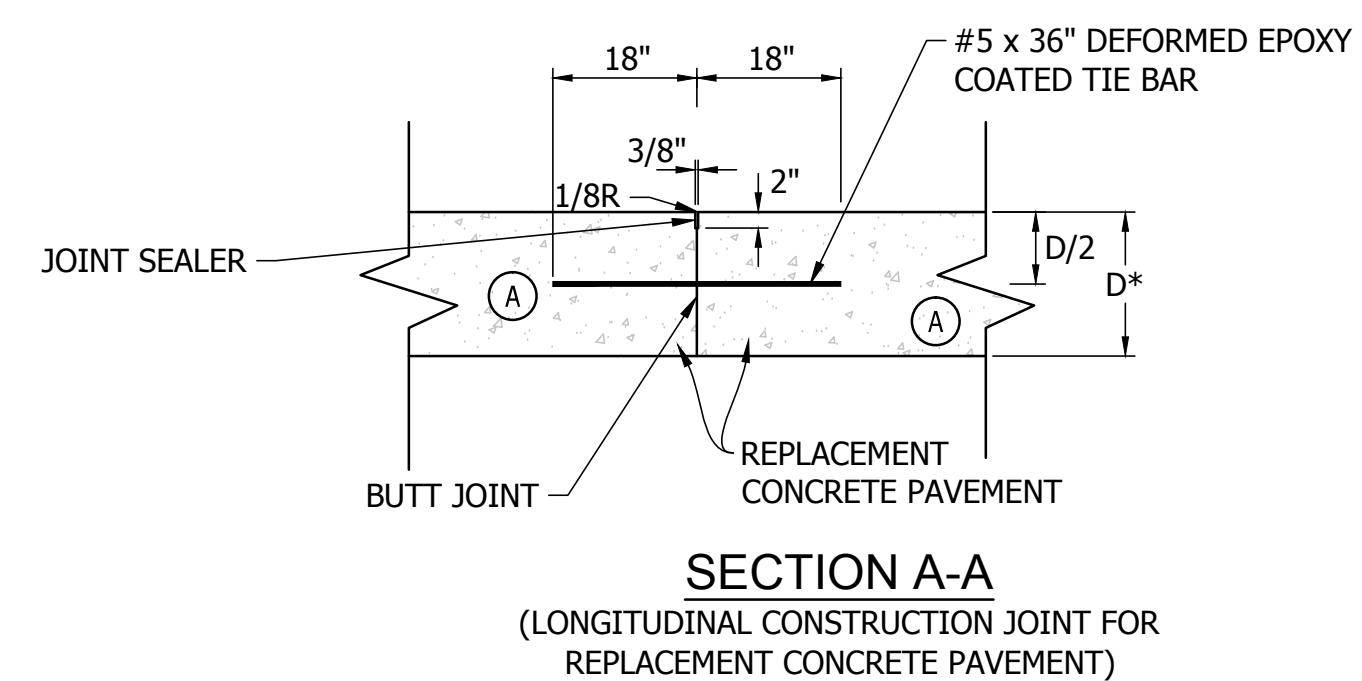
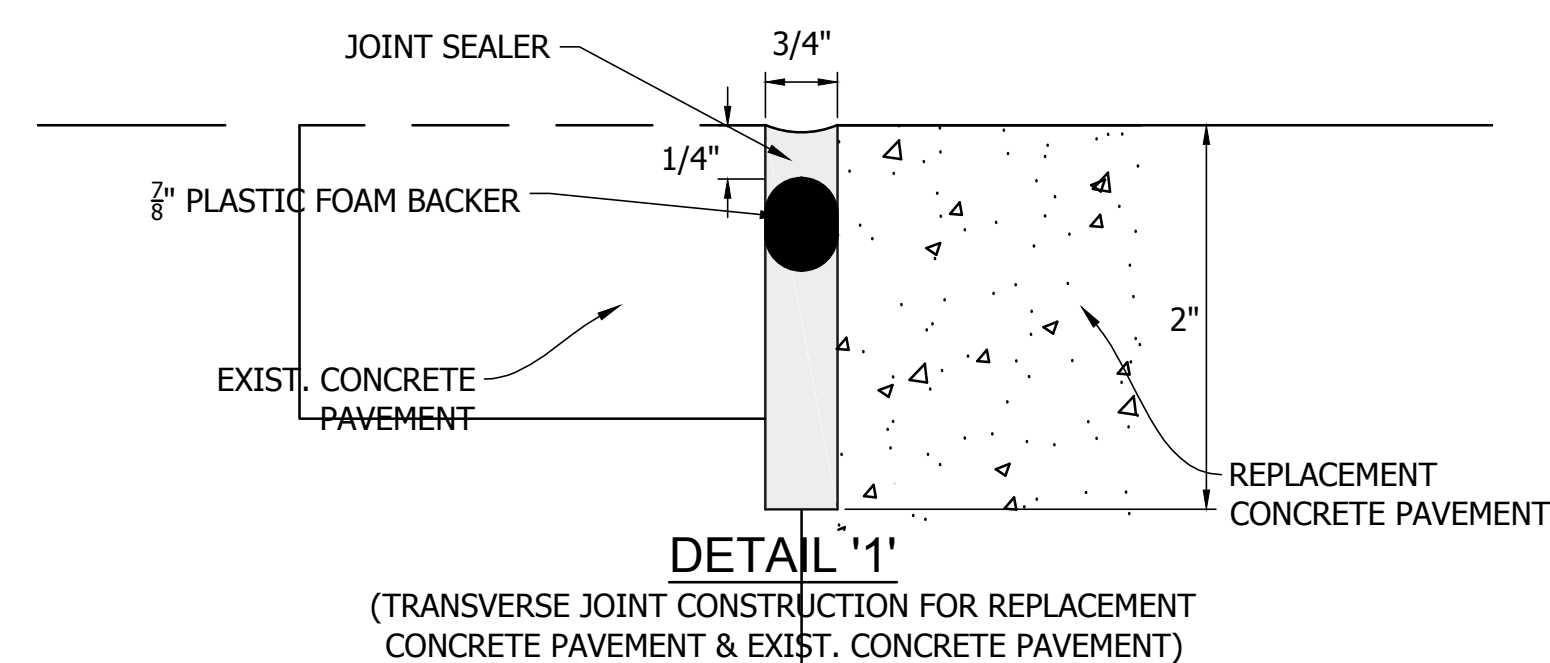
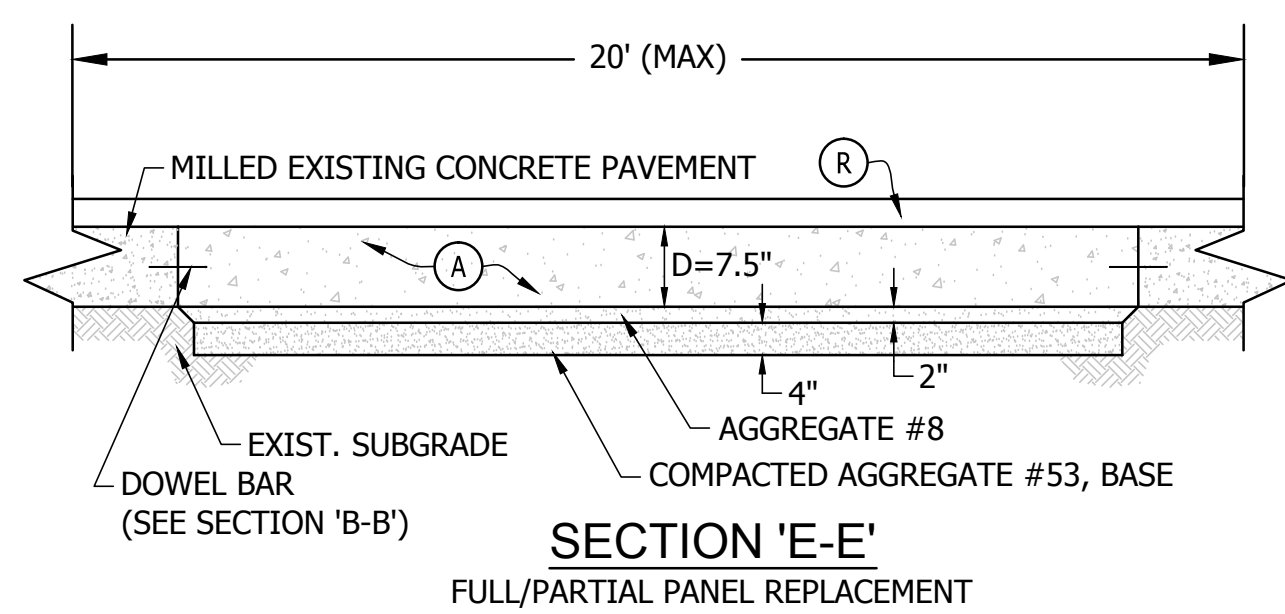
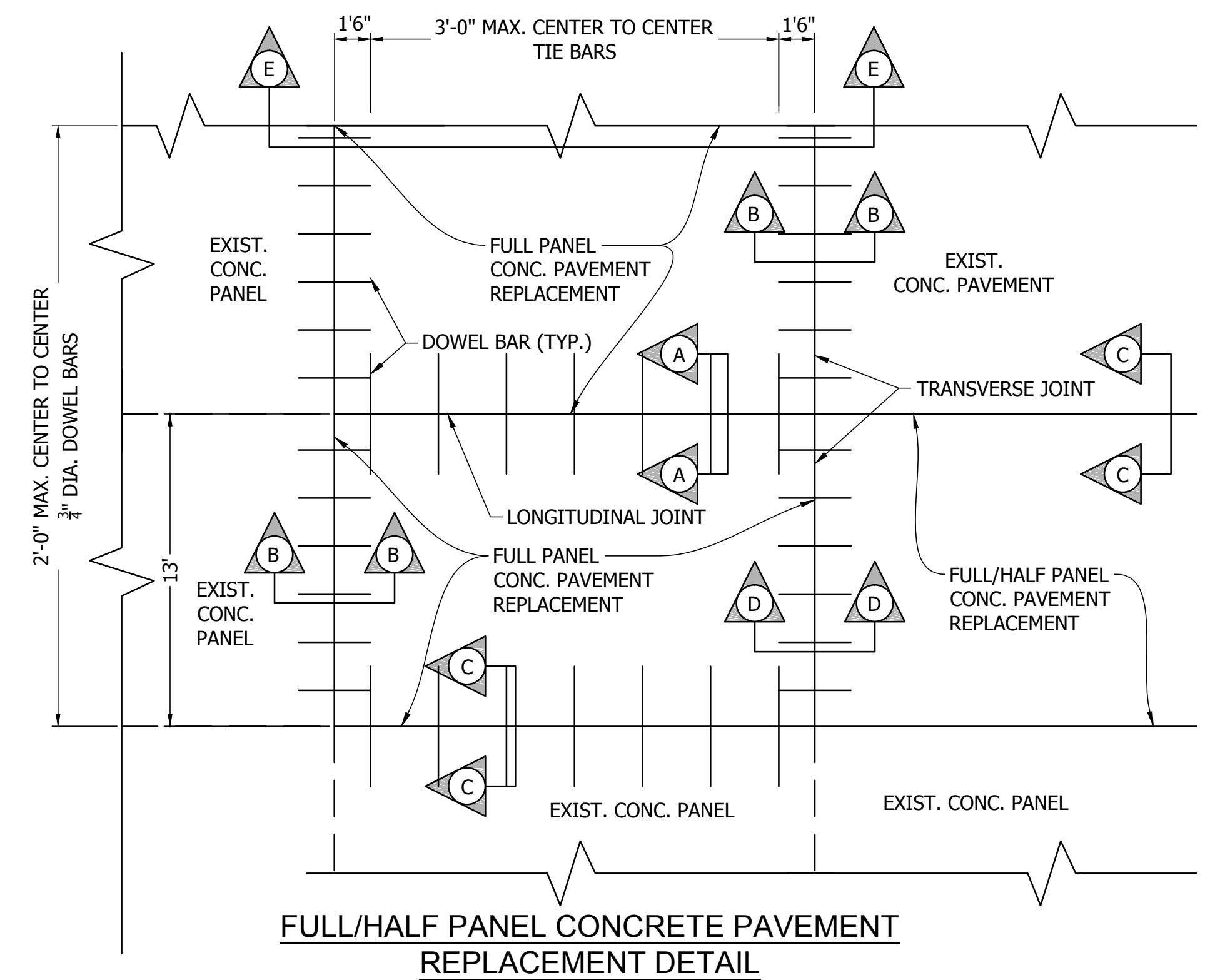
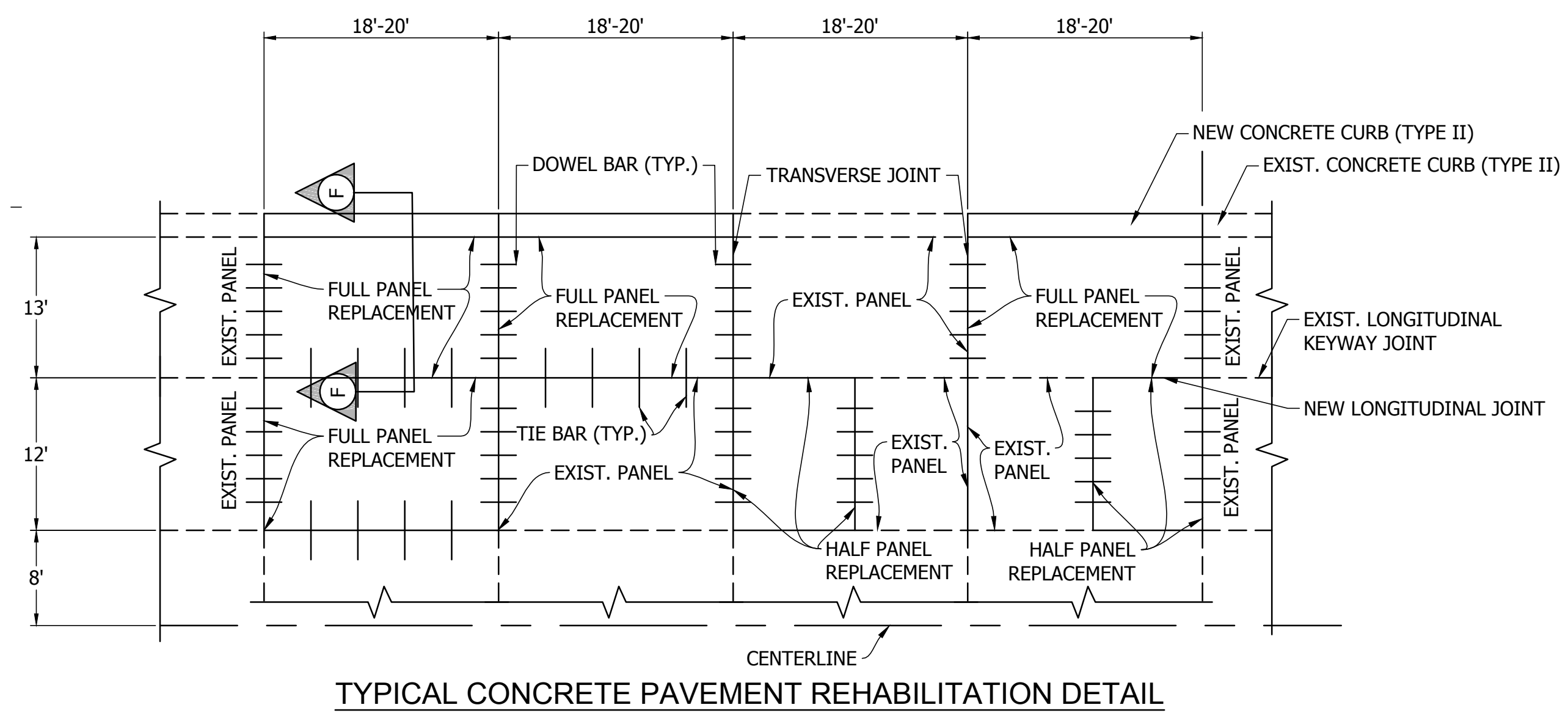
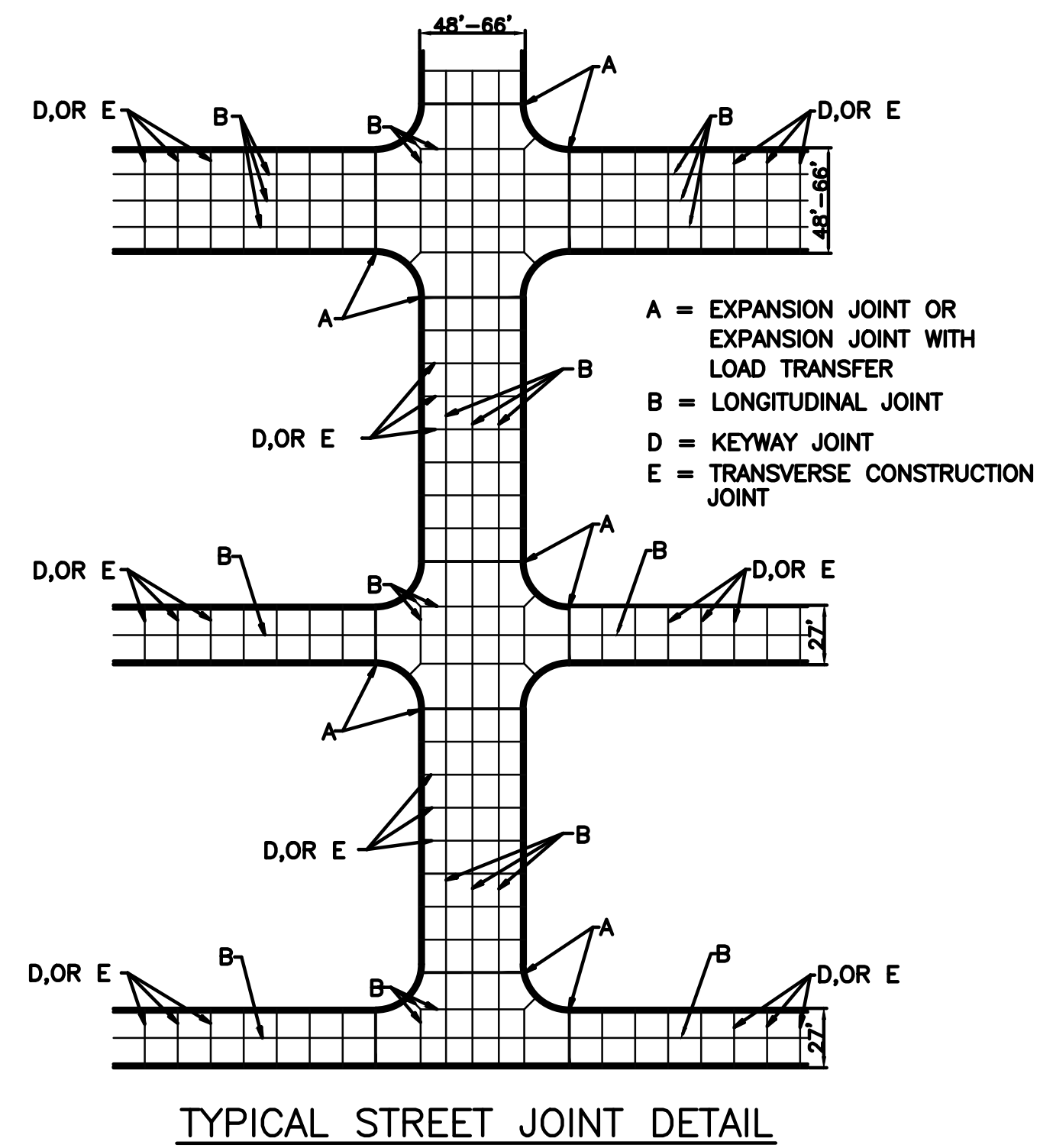
**LEGEND**

- (C) CONCRETE CENTER CURB TYPE "C", (MODIFIED)
- (F) CONCRETE SIDEWALK, 4"
- (N) 165 #/SY HMA SURFACE, TYPE C ON  
220 #/SY HMA INTERMEDIATE, TYPE C ON  
935 #/SY HMA BASE, TYPE C, ON  
6" COMPACTED AGGREGATE BASE NO. 53
- (R) 165 #/SY HMA SURFACE, TYPE C, ON  
220 #/SY HMA INTERMEDIATE, TYPE C, ON  
2.5 IN. PCCP MILLING
- (10) SAW CUT (FULL DEPTH)
- (15) CONCRETE CURB TYPE II-A (MODIFIED-SEE DETAIL)
- (16) CONCRETE CURB TYPE III

**COLDWATER ROAD  
CONCRETE STREET REHABILITATION**

MISCELLANEOUS DETAILS

Designed by: C.H.	RES.	W.O.	S.T.
Drawn by:	PR # 14413		
Checked by: F.M.M.	Sheet 30 of ##		



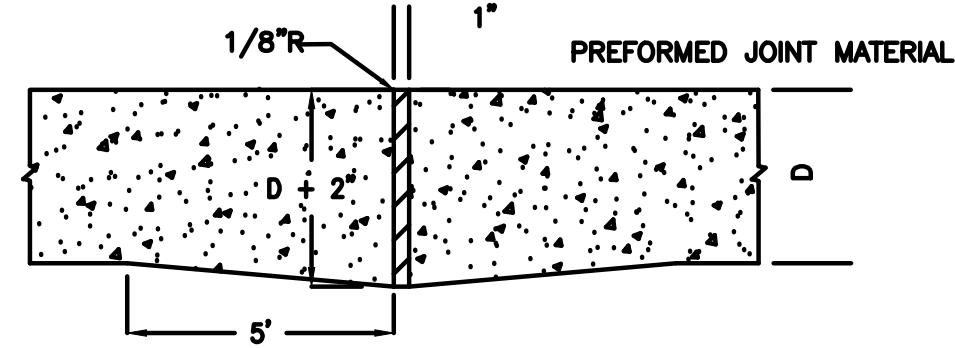
- LEGEND**
- (A) CONCRETE PAVEMENT
  - (R) 165 #/SY HMA SURFACE, TYPE C, ON 220#/SY HMA INTERMEDIATE, TYPE C, ON 2.5 IN. PCCP MILLING
  - (14) CONCRETE CURB TYPE II-A (SEE DETAIL)
  - (26) SODDING (NURSERY)

NOTE: \*DEPTH 'D' IS THE DEPTH OF EXISTING CONCRETE PAVEMENT AFTER MILLING.

COLDWATER ROAD CONCRETE STREET REHABILITATION			
MISCELLANEOUS DETAILS			
Designed by: C.H.	RES.	W.O.	S.T.
Drawn by:		PR # 14413	Sheet 31 of ##
Checked by: E.M.H.			

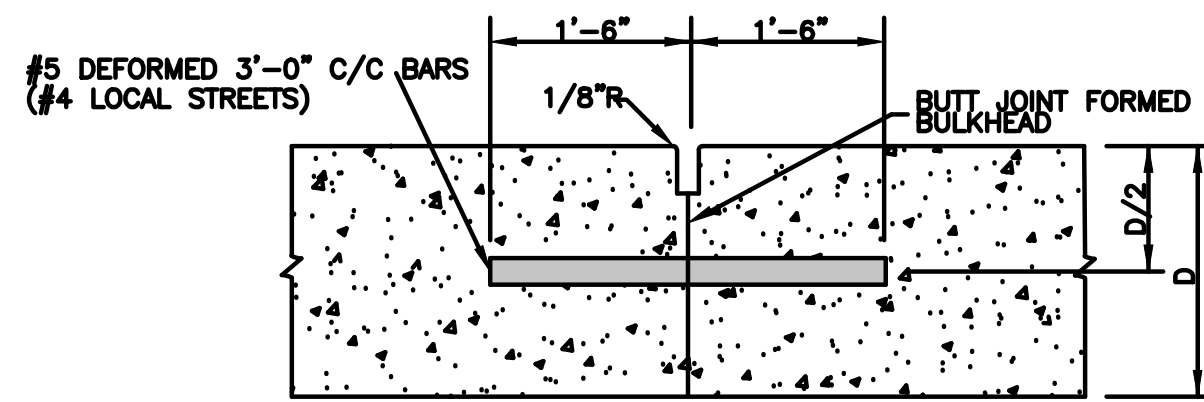
1" EXPANSION JOINT WITH THICKENED EDGE

(APPLICATION FOR LOCAL STREETS)  
NOT TO SCALE



LONGITUDINAL CONSTRUCTION JOINT

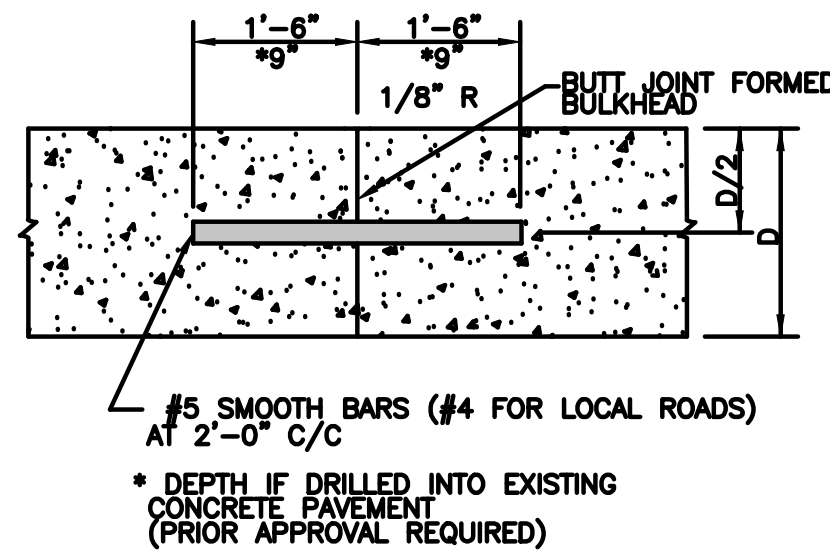
NOT TO SCALE



TRANSVERSE CONSTRUCTION JOINT

END OF DAYS WORK

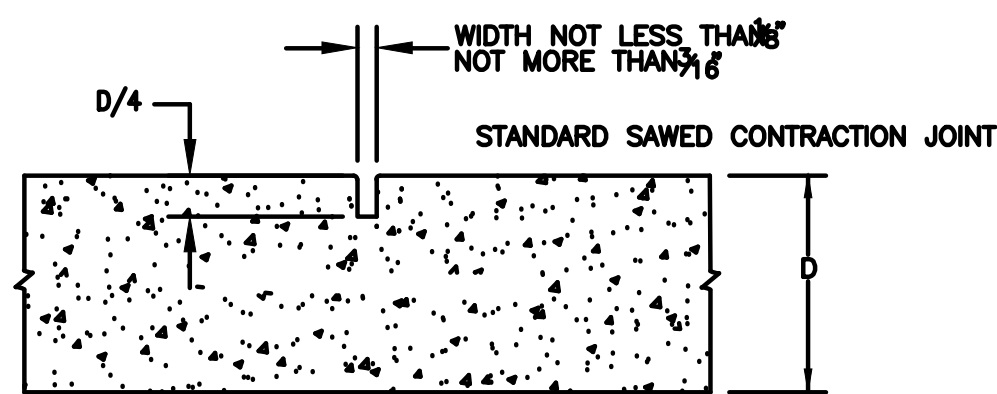
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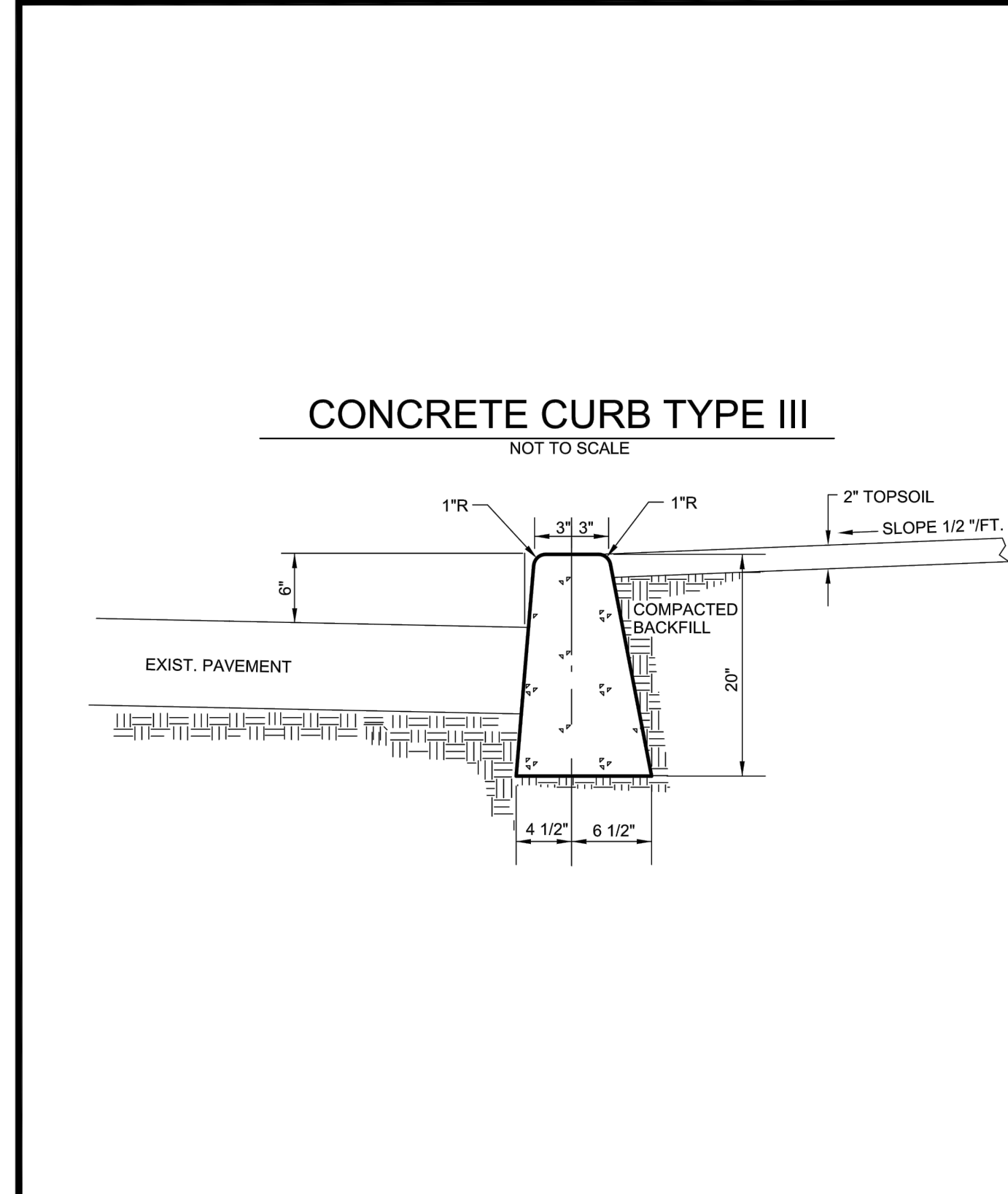
CONTRACTION JOINT

(APPLICATION FOR LOCAL STREETS)

NOT TO SCALE



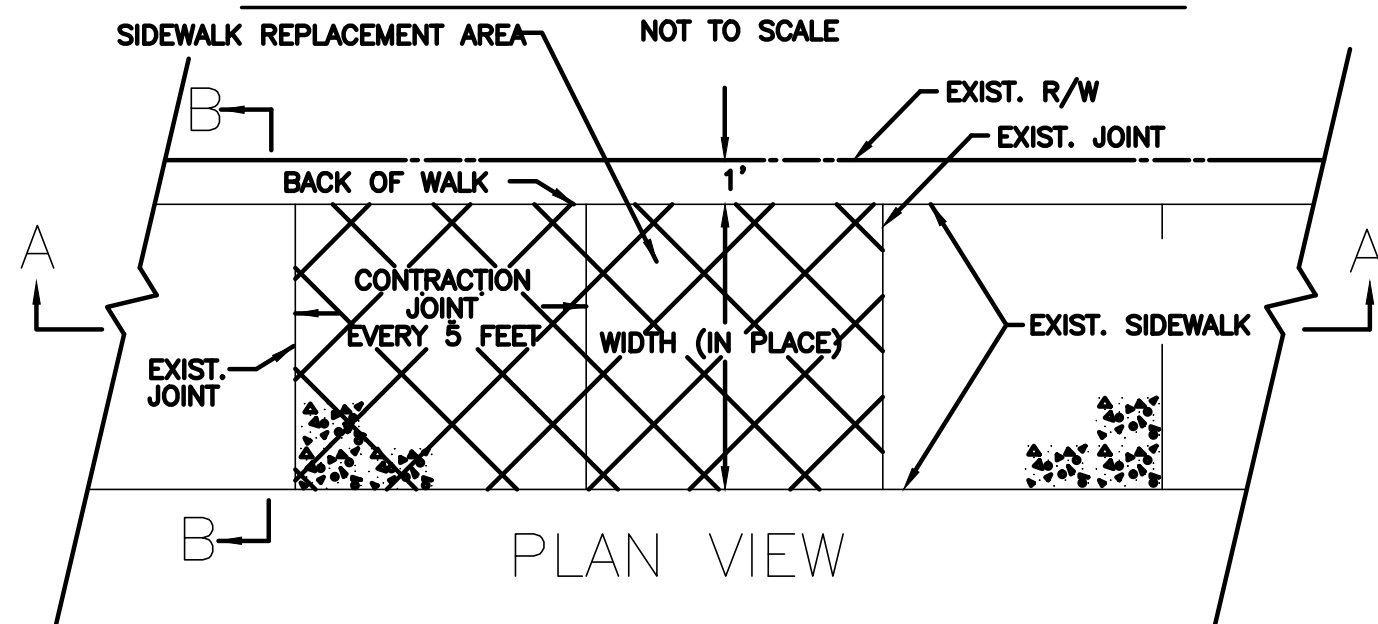
CONCRETE CURB TYPE III



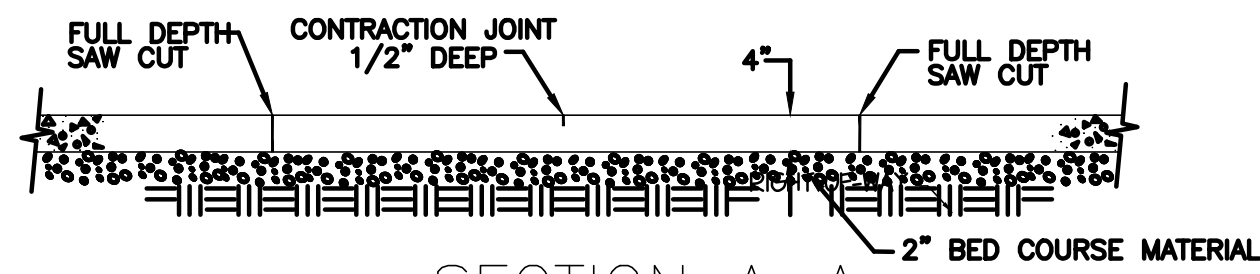
DATE: 2/22/12 NOT TO SCALE APPROVED BY: M.T. SHEET NO: CURBS 11

TYPICAL CONCRETE SIDEWALK

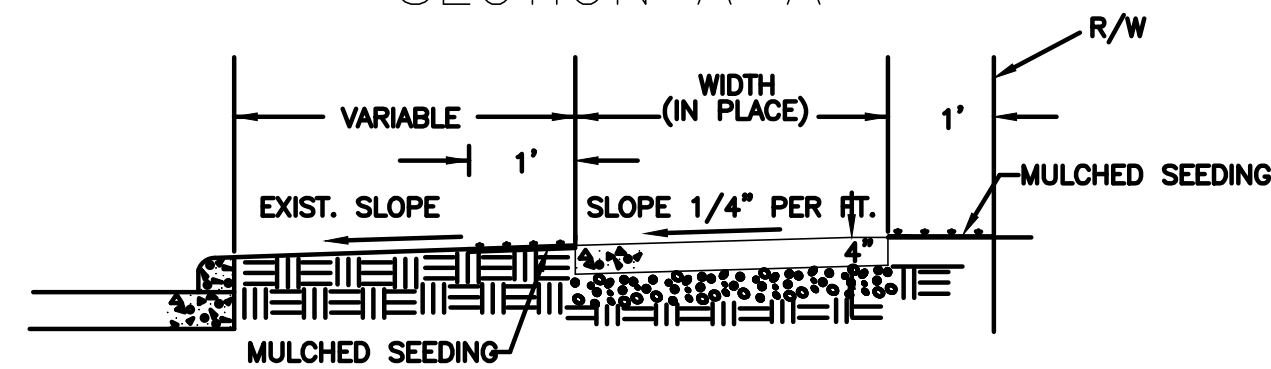
NOT TO SCALE



PLAN VIEW



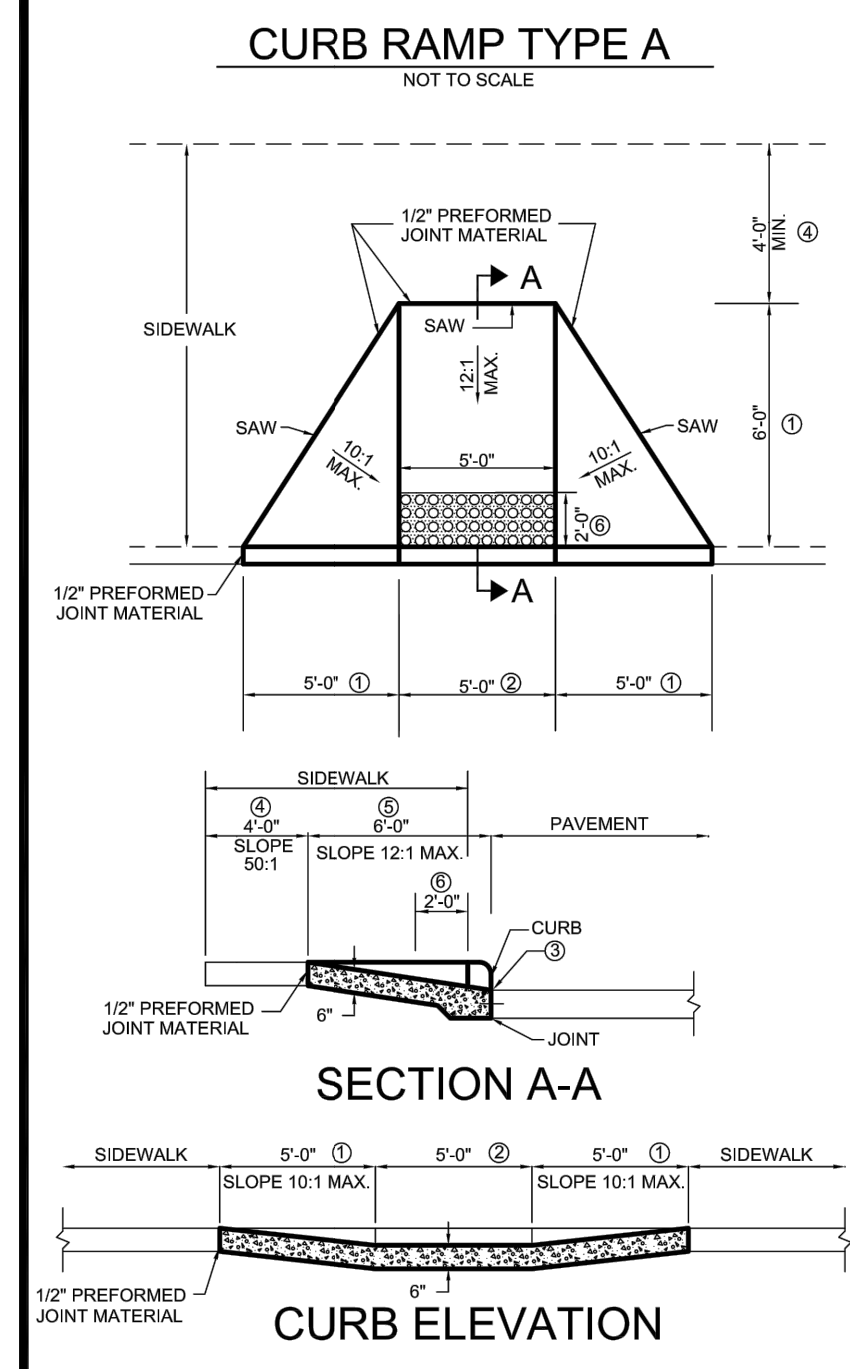
SECTION A-A



SECTION B-B

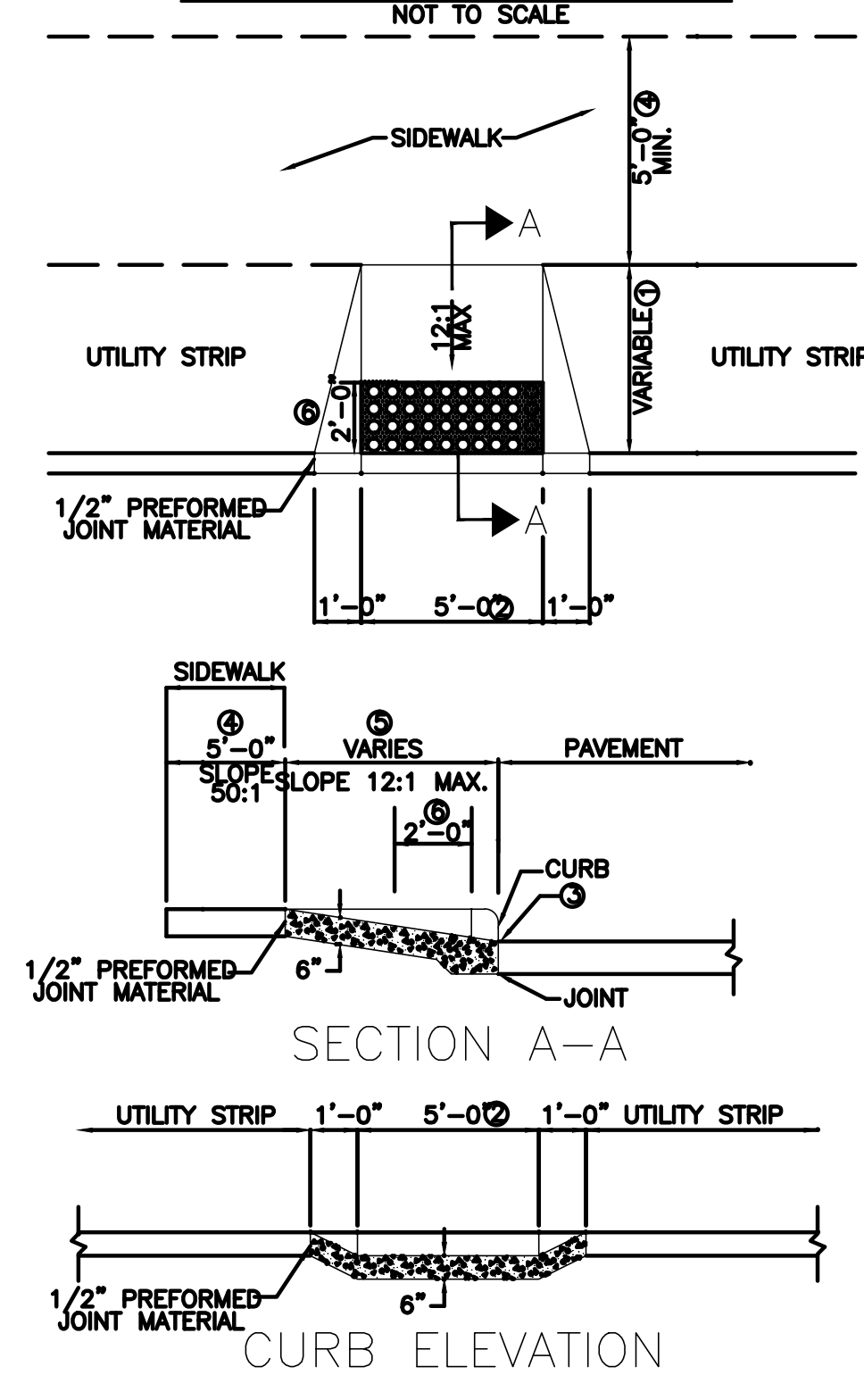
COLDWATER ROAD CONCRETE STREET REHABILITATION			
MISCELLANEOUS DETAILS			
Designed by: A.D.S.	RES.	W.O.	S.T.
Drawn by: E.M.H.	PR # 14413		Sheet 32 of ##
Checked by: C.H.			

**CURB RAMP TYPE "A"**



- GENERAL NOTES**
1. THESE DIMENSIONS ARE BASED ON A 6" CURB HEIGHT, AND SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
  2. A 4'-0" MINIMUM WIDTH RAMP MAY BE USED WHEN EXISTING SPACE PROHIBITS THE CONSTRUCTION OF THE 5'-0" WIDE RAMP.
  3. THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER LINE.
  4. LANDING AREA AT THE TOP OF CURB RAMP SHALL HAVE MAXIMUM CROSS SLOPE OF 50:1 IN ANY DIRECTION. WHERE SITE INFEASIBILITY PRECLUDES A LANDING SLOPE OF 50:1 IN ANY DIRECTION, THE SLOPE PERPENDICULAR TO THE CURB FACE SHALL NOT EXCEED 50:1. A TURNING SPACE (4.0 FT.) MINIMUM BY (4.0 FT.) MINIMUM SHALL BE PROVIDED AT THE TOP OF THE CURB RAMP AND SHALL BE PERMITTED TO OVERLAP OTHER TURNING SPACES AND CLEAR SPACES. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF THE SIDEWALK, THE TURNING SPACE SHALL BE (4.0 FT.) MINIMUM BY (5.0 FT.) MINIMUM. THE (5.0 FT.) DIMENSION SHALL BE PROVIDED IN THE DIRECTION OF THE RAMP RUN.
  5. THE RUNNING SLOPE OF THE CURB RAMP SHALL CUT THROUGH OR SHALL BE BUILT UP TO THE CURB AT RIGHT ANGLES OR SHALL MEET THE GUTTER GRADE BREAK AT RIGHT ANGLES WHERE THE CURB IS CURVED. THE RUNNING SLOPE OF THE CURB SHALL BE 5% MIN. AND 8.3% MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED (15.0 FT.). THE RUNNING SLOPE OF THE TURNING SPACE SHALL BE 2% MAXIMUM.
  6. DETECTABLE WARNING SURFACE SHALL BE BRICK RED IN COLOR. SEE SPECIAL PROVISIONS FOR ACCEPTED TACTILE WARNING UNITS.

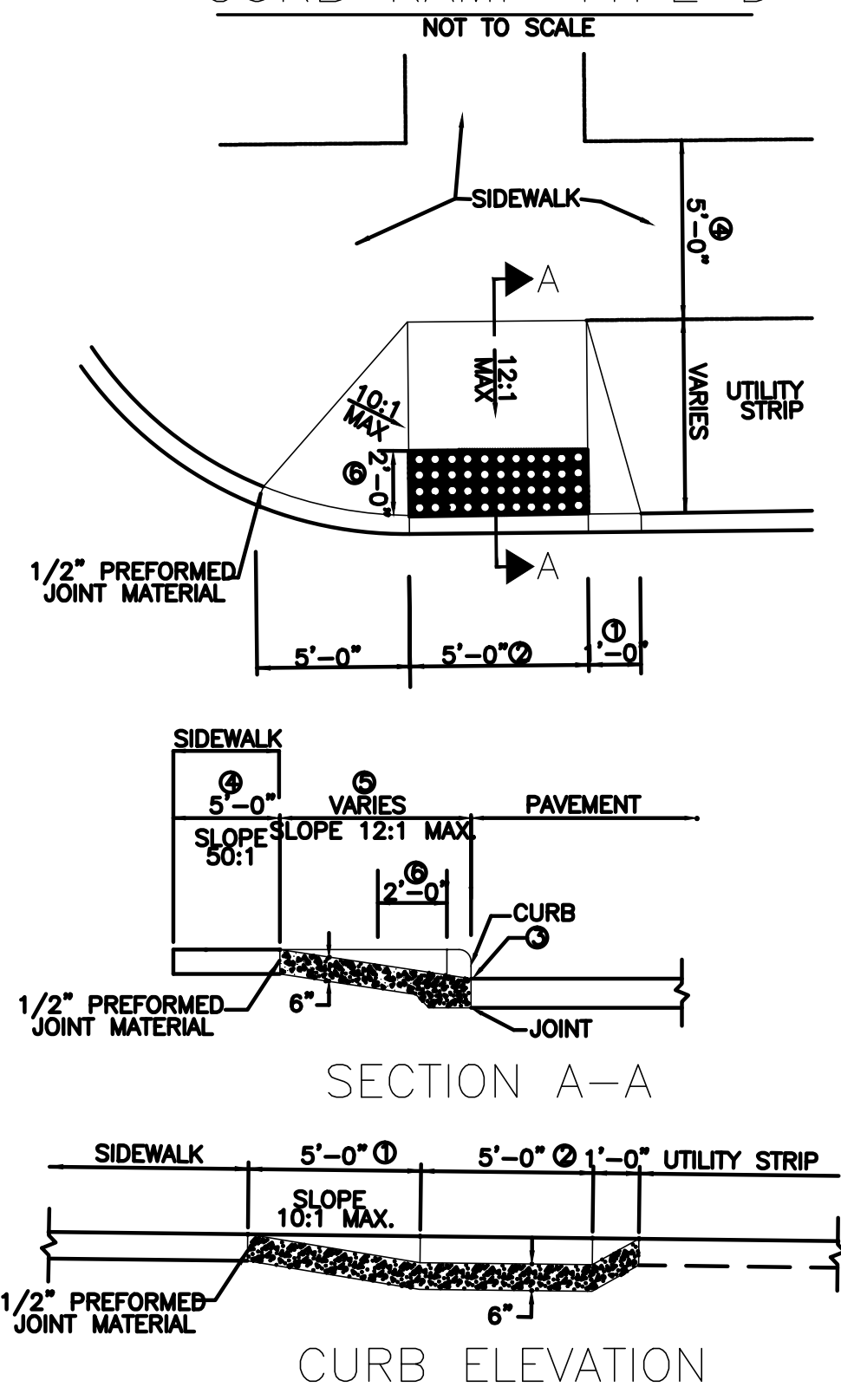
**CURB RAMP TYPE C**



**GENERAL NOTES**

1. THESE DIMENSIONS ARE BASED ON A 6" CURB HEIGHT, AND SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
2. A 4'-0" MINIMUM WIDTH RAMP MAY BE USED WHEN EXISTING SPACE PROHIBITS THE CONSTRUCTION OF THE 5'-0" WIDE RAMP.
3. THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER LINE.
4. LANDING AREA AT THE TOP OF CURB RAMP SHALL HAVE MAXIMUM CROSS SLOPE OF 50:1 IN ANY DIRECTION. WHERE SITE INFEASIBILITY PRECLUDES A LANDING SLOPE OF 50:1 IN ANY DIRECTION, THE SLOPE PERPENDICULAR TO THE CURB FACE SHALL NOT EXCEED 50:1. A TURNING SPACE (4.0 FT.) MINIMUM BY (4.0 FT.) MINIMUM SHALL BE PROVIDED AT THE TOP OF THE CURB RAMP AND SHALL BE PERMITTED TO OVERLAP OTHER TURNING SPACES AND CLEAR SPACES. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF THE SIDEWALK, THE TURNING SPACE SHALL BE (4.0 FT.) MINIMUM BY (5.0 FT.) MINIMUM. THE (5.0 FT.) DIMENSION SHALL BE PROVIDED IN THE DIRECTION OF THE RAMP RUN.
5. THE RUNNING SLOPE OF THE CURB RAMP SHALL CUT THROUGH OR SHALL BE BUILT UP TO THE CURB AT RIGHT ANGLES OR SHALL MEET THE GUTTER GRADE BREAK AT RIGHT ANGLES WHERE THE CURB IS CURVED. THE RUNNING SLOPE OF THE CURB SHALL BE 5% MIN. AND 8.3% MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED (15.0 FT.). THE RUNNING SLOPE OF THE TURNING SPACE SHALL BE 2% MAXIMUM.
6. DETECTABLE WARNING SURFACE SHALL BE BRICK RED IN COLOR. SEE SPECIAL PROVISIONS FOR ACCEPTED TACTILE WARNING UNITS.

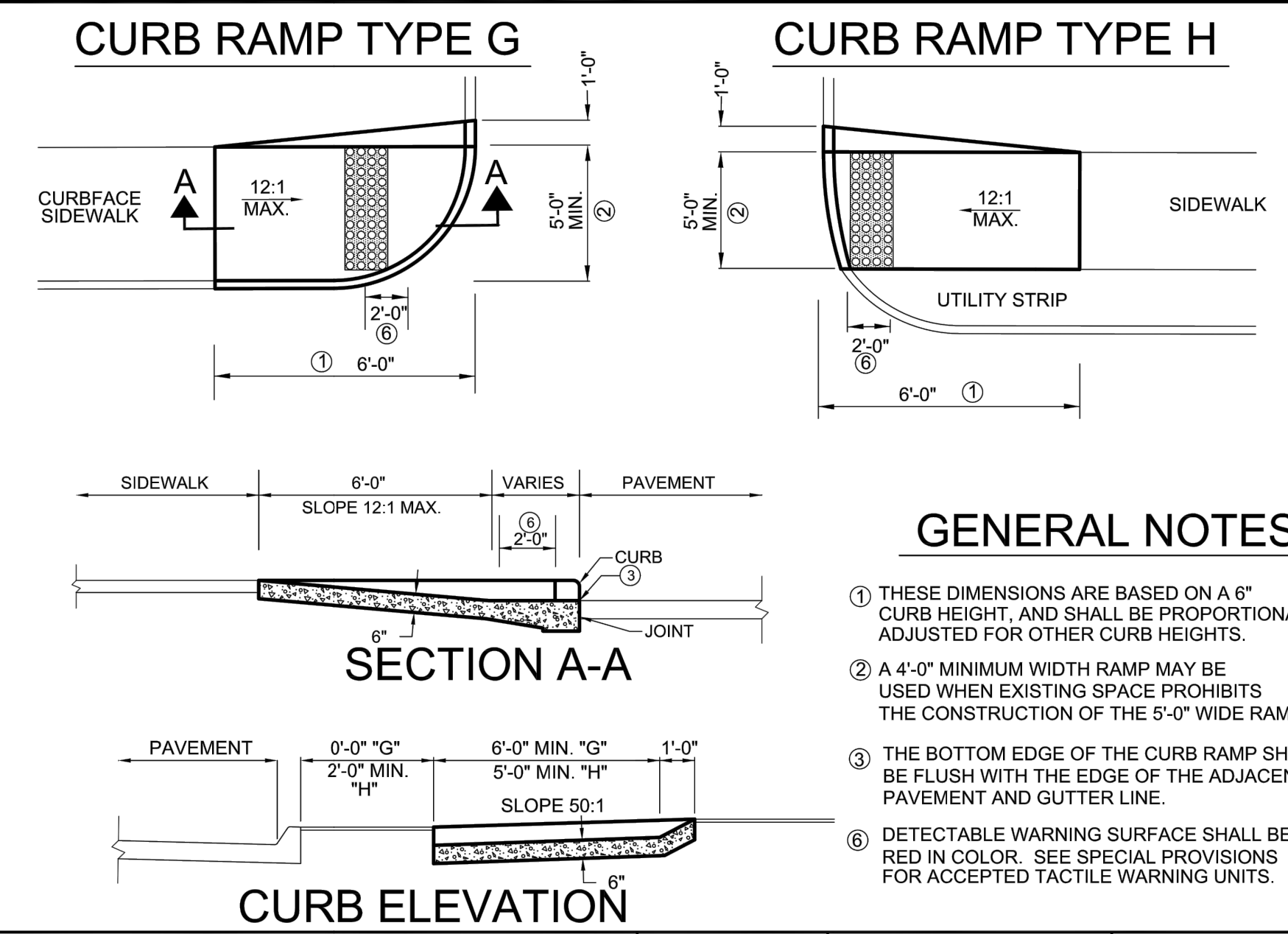
**CURB RAMP TYPE D**



**GENERAL NOTES**

1. THESE DIMENSIONS ARE BASED ON A 6" CURB HEIGHT, AND SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
2. A 4'-0" MINIMUM WIDTH RAMP MAY BE USED WHEN EXISTING SPACE PROHIBITS THE CONSTRUCTION OF THE 5'-0" WIDE RAMP.
3. THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER LINE.
4. LANDING AREA AT THE TOP OF CURB RAMP SHALL HAVE MAXIMUM CROSS SLOPE OF 50:1 IN ANY DIRECTION. WHERE SITE INFEASIBILITY PRECLUDES A LANDING SLOPE OF 50:1 IN ANY DIRECTION, THE SLOPE PERPENDICULAR TO THE CURB FACE SHALL NOT EXCEED 50:1. A TURNING SPACE (4.0 FT.) MINIMUM BY (4.0 FT.) MINIMUM SHALL BE PROVIDED AT THE TOP OF THE CURB RAMP AND SHALL BE PERMITTED TO OVERLAP OTHER TURNING SPACES AND CLEAR SPACES. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF THE SIDEWALK, THE TURNING SPACE SHALL BE (4.0 FT.) MINIMUM BY (5.0 FT.) MINIMUM. THE (5.0 FT.) DIMENSION SHALL BE PROVIDED IN THE DIRECTION OF THE RAMP RUN.
5. THE RUNNING SLOPE OF THE CURB RAMP SHALL CUT THROUGH OR SHALL BE BUILT UP TO THE CURB AT RIGHT ANGLES OR SHALL MEET THE GUTTER GRADE BREAK AT RIGHT ANGLES WHERE THE CURB IS CURVED. THE RUNNING SLOPE OF THE CURB SHALL BE 5% MIN. AND 8.3% MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED (15.0 FT.). THE RUNNING SLOPE OF THE TURNING SPACE SHALL BE 2% MAXIMUM.
6. DETECTABLE WARNING SURFACE SHALL BE BRICK RED IN COLOR. SEE SPECIAL PROVISIONS FOR ACCEPTED TACTILE WARNING UNITS.

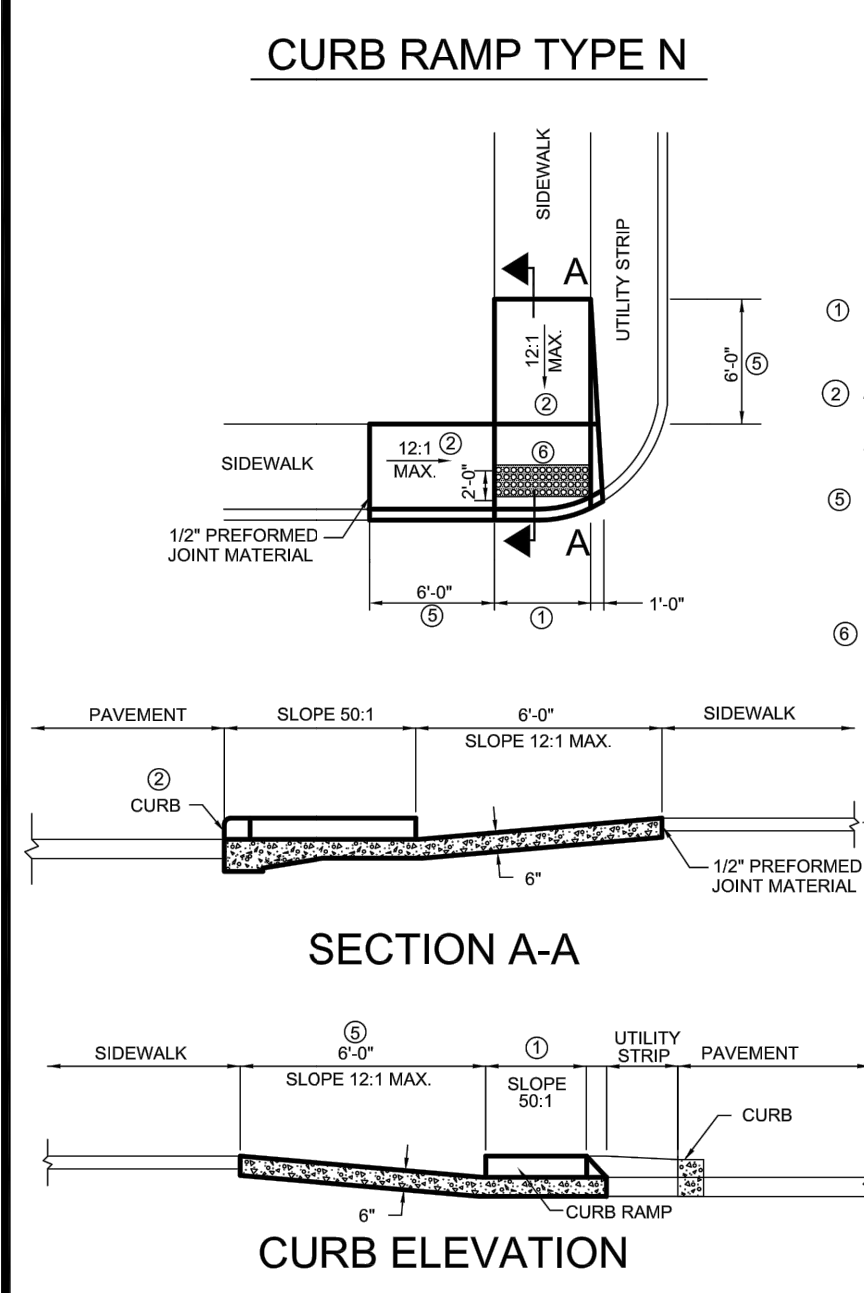
**CURB RAMP TYPE "G & H"**



**GENERAL NOTES**

1. THESE DIMENSIONS ARE BASED ON A 6" CURB HEIGHT, AND SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
2. A 4'-0" MINIMUM WIDTH RAMP MAY BE USED WHEN EXISTING SPACE PROHIBITS THE CONSTRUCTION OF THE 5'-0" WIDE RAMP.
3. THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER LINE.
6. DETECTABLE WARNING SURFACE SHALL BE BRICK RED IN COLOR. SEE SPECIAL PROVISIONS FOR ACCEPTED TACTILE WARNING UNITS.

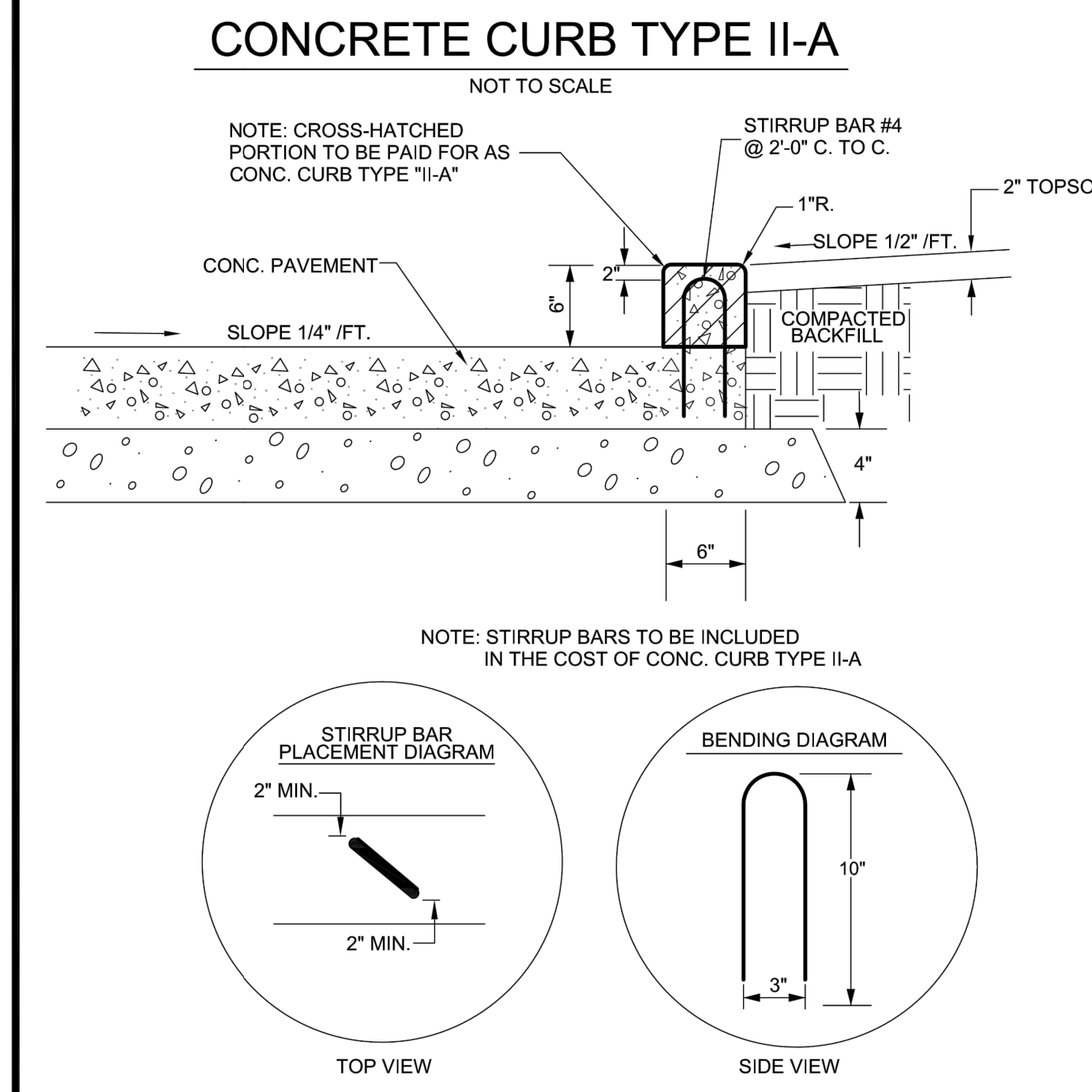
**CURB RAMP TYPE "N"**



**GENERAL NOTES**

1. THESE DIMENSIONS ARE BASED ON A 6" CURB HEIGHT, AND SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
2. A 4'-0" MINIMUM WIDTH RAMP MAY BE USED WHEN EXISTING SPACE PROHIBITS THE CONSTRUCTION OF THE 5'-0" WIDE RAMP.
3. IF SITE INFEASIBILITY PRECLUDES CONSTRUCTION AS SHOWN, THE LANDING WIDTH MAY BE DECREASED TO 3'-0" MINIMUM AND THE RUNNING SLOPE OF THE CURB RAMP MAY BE INCREASED TO A MAXIMUM OF 10:1 FOR 6" OF RISE.
6. DETECTABLE WARNING SURFACE SHALL BE BRICK RED IN COLOR. SEE SPECIAL PROVISIONS FOR ACCEPTED TACTILE WARNING UNITS.

**CONCRETE CURB TYPE II-A**

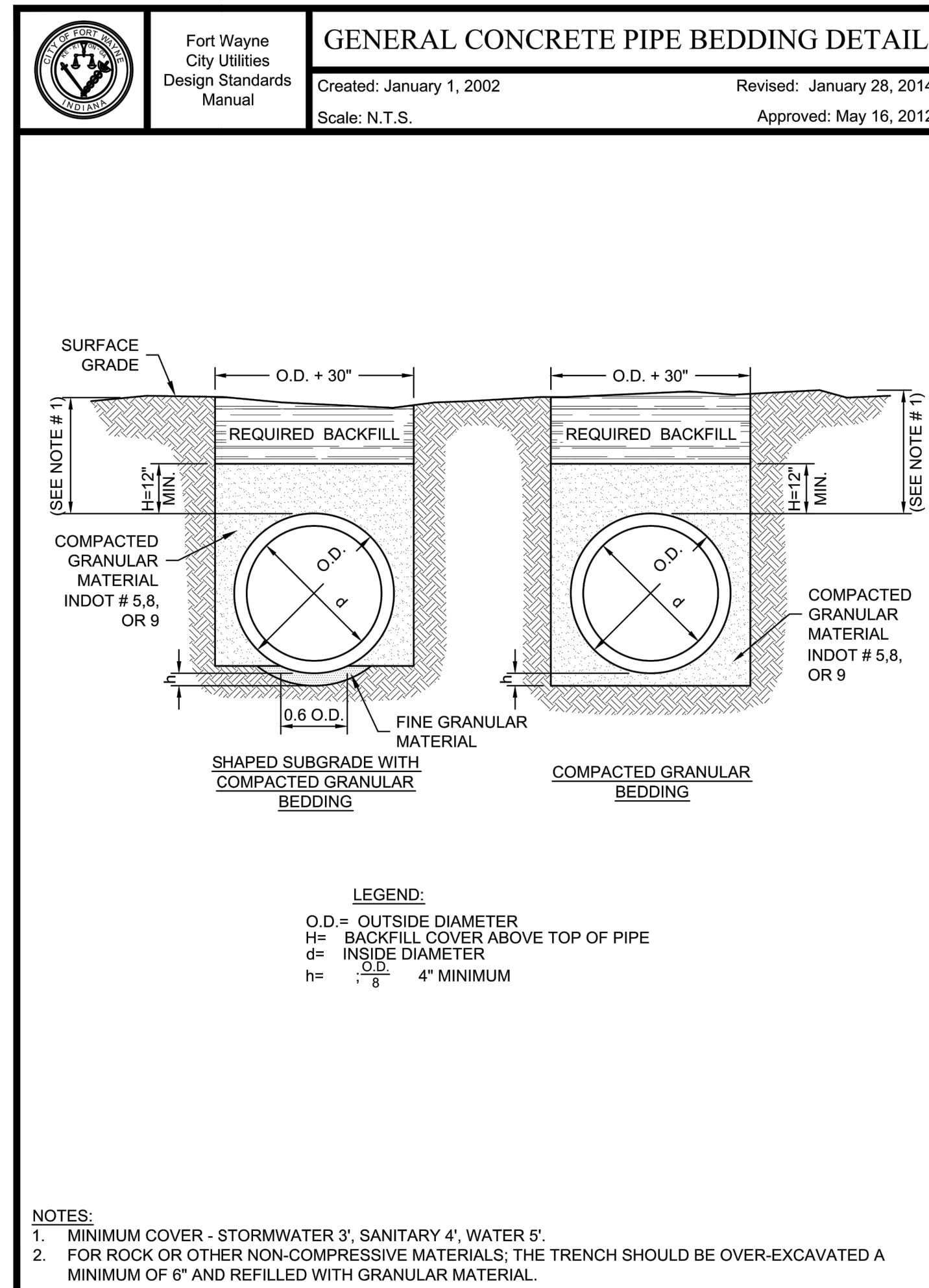
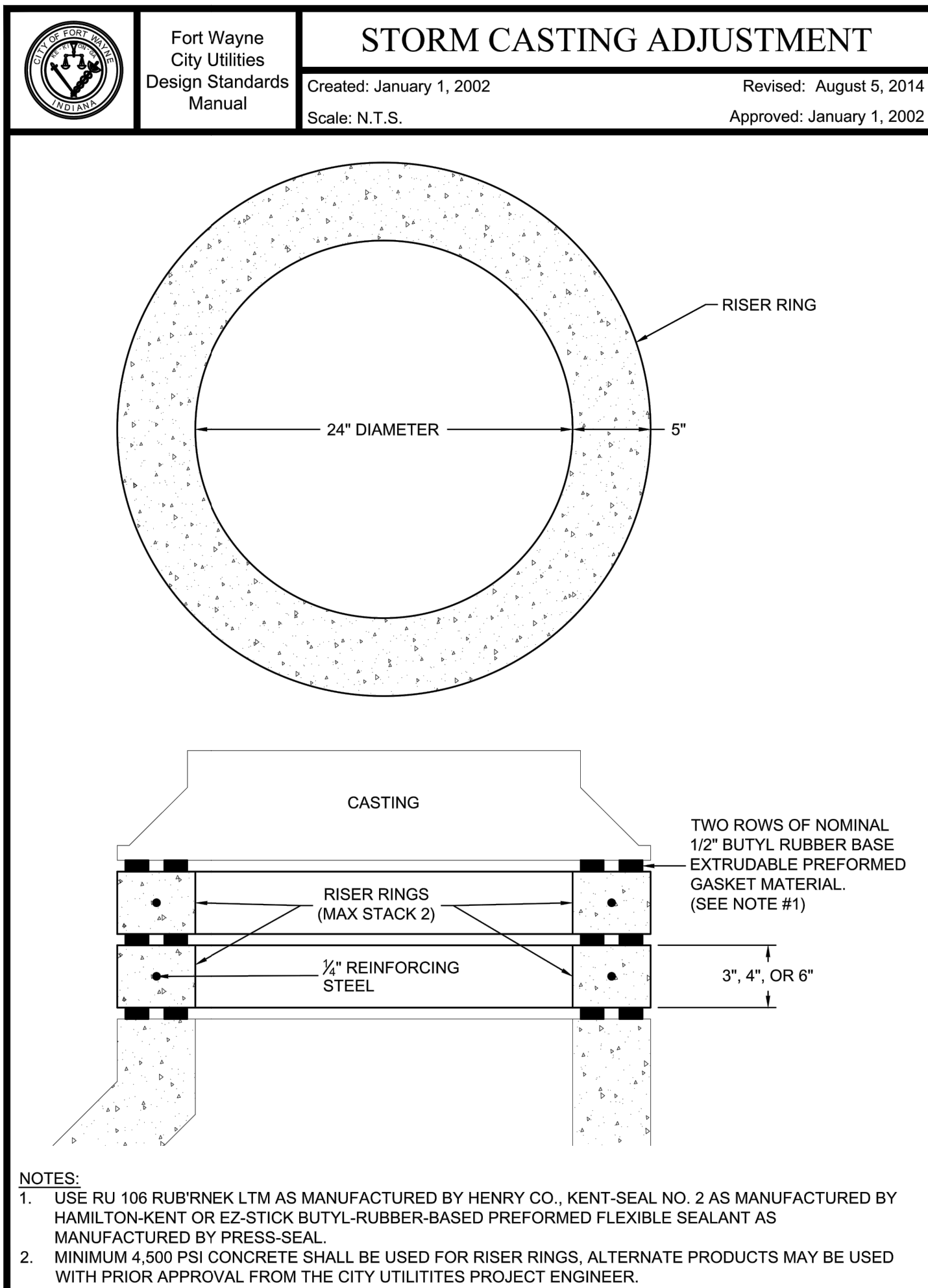
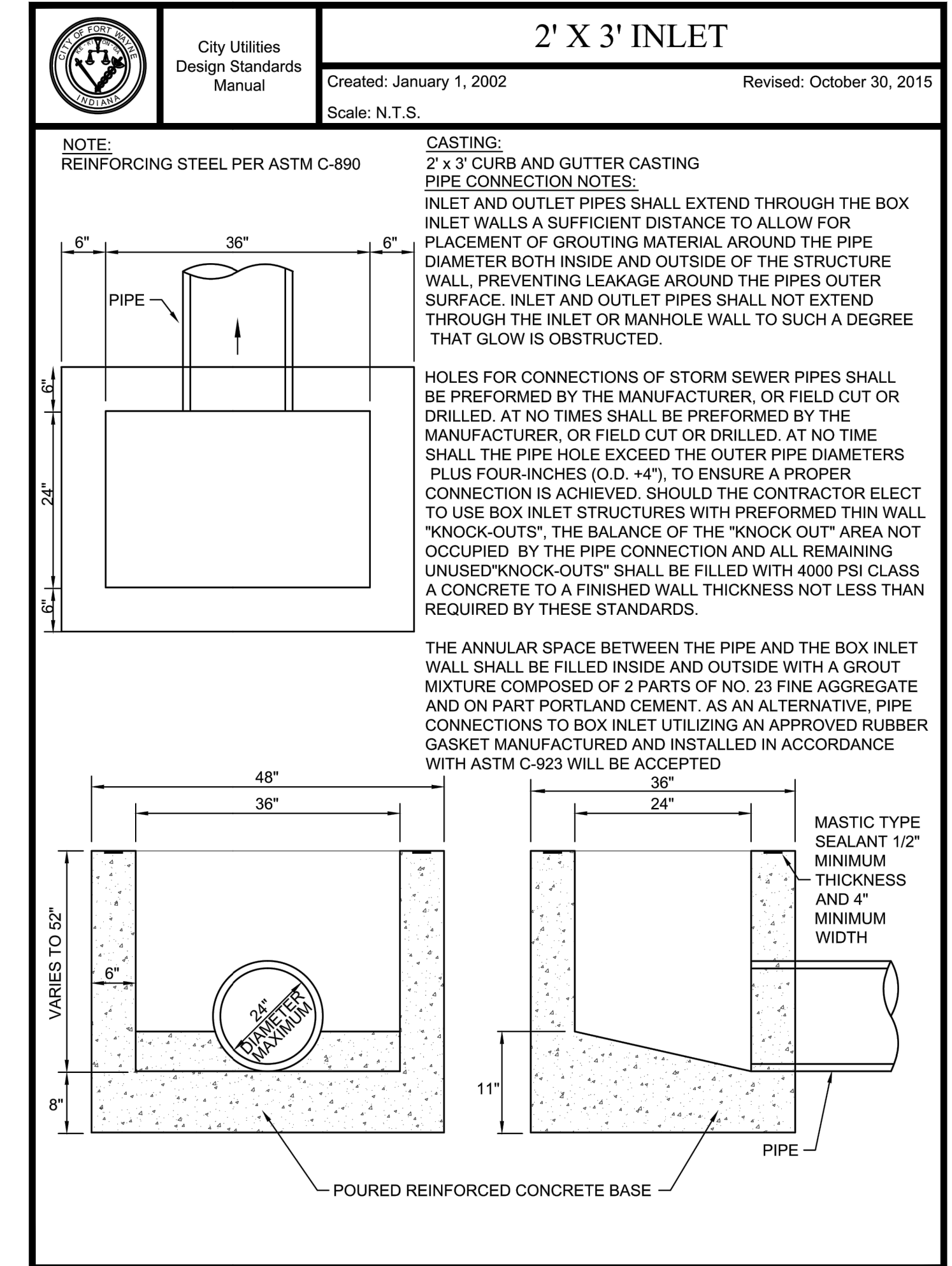
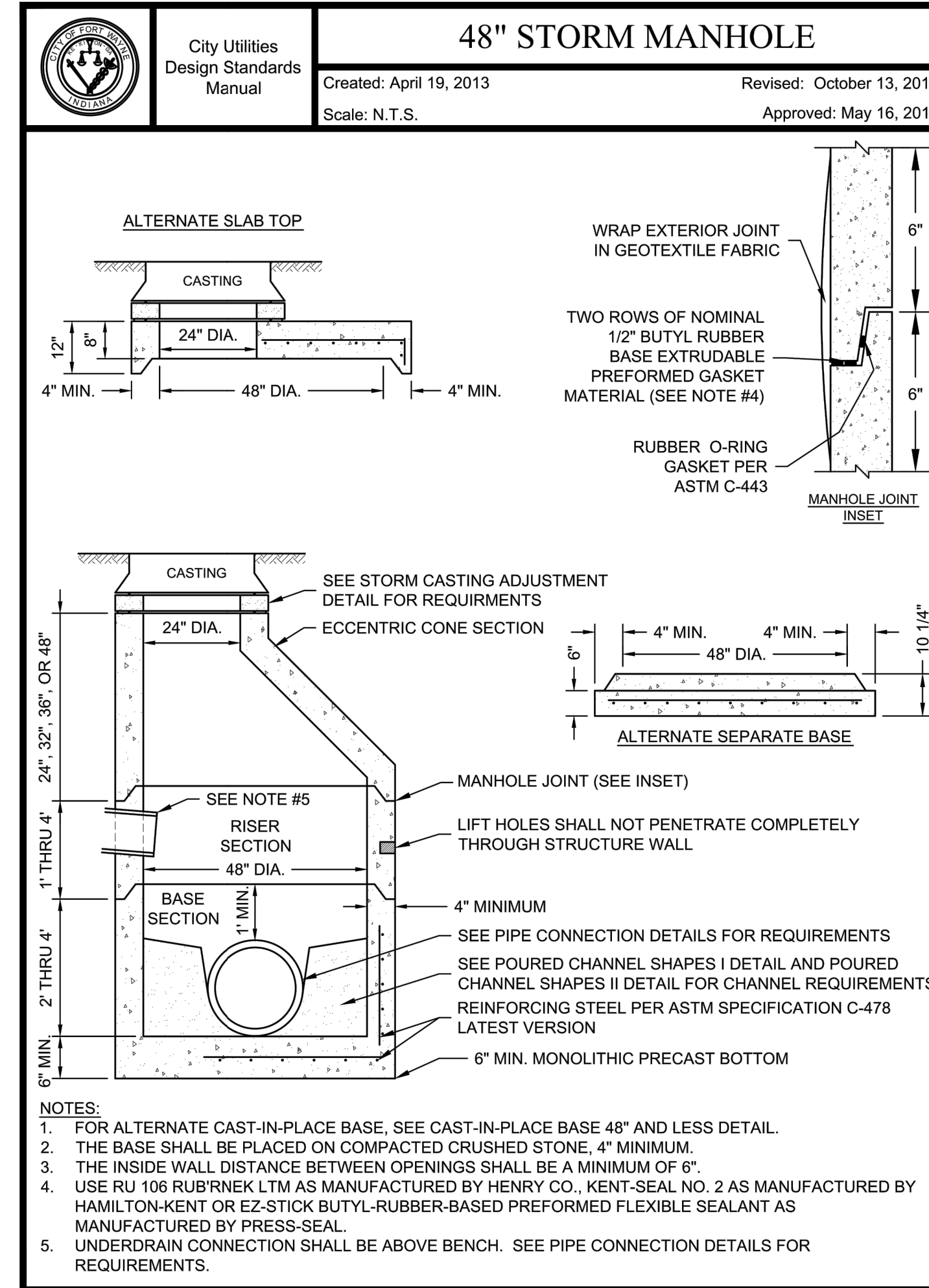
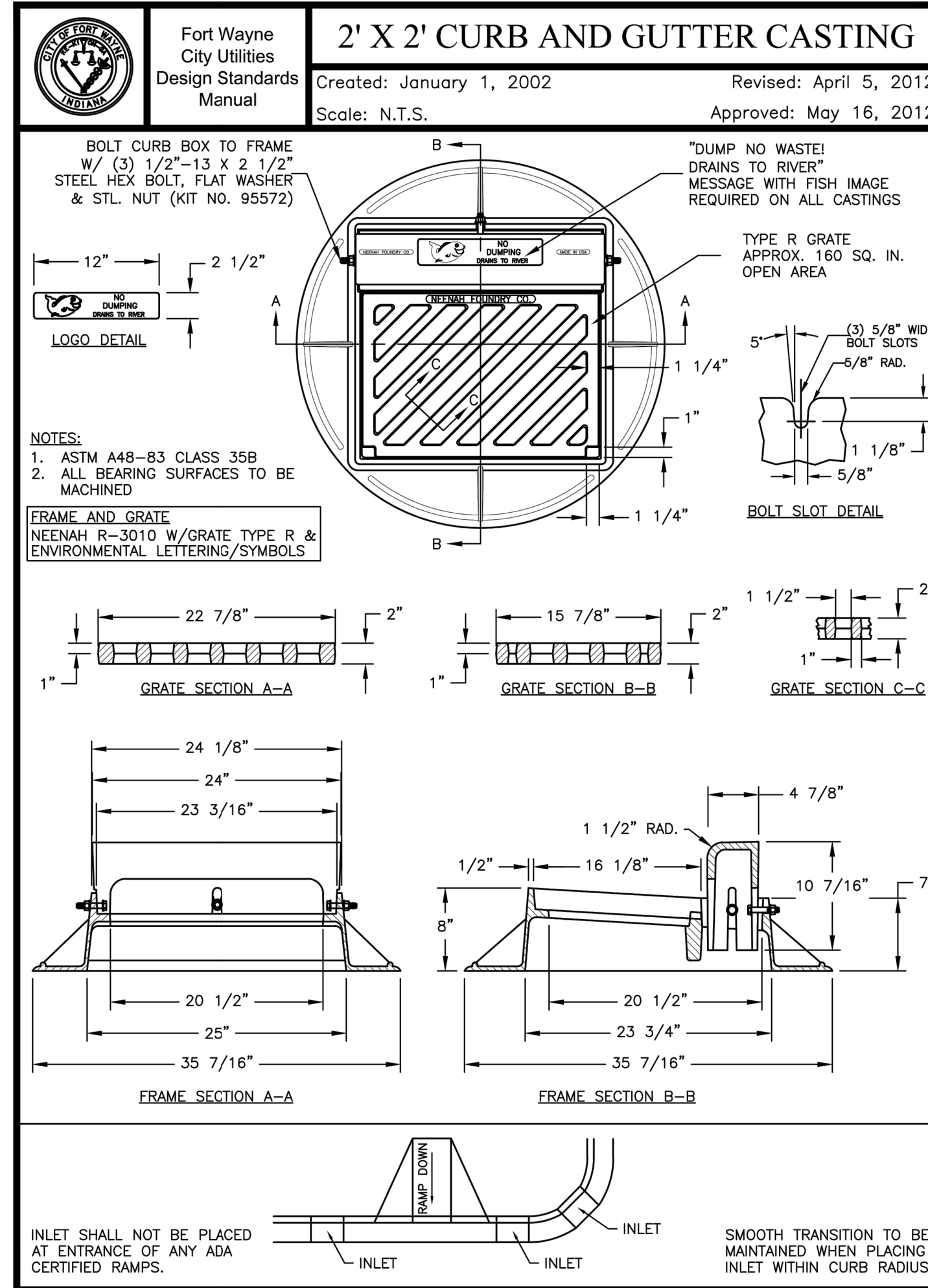
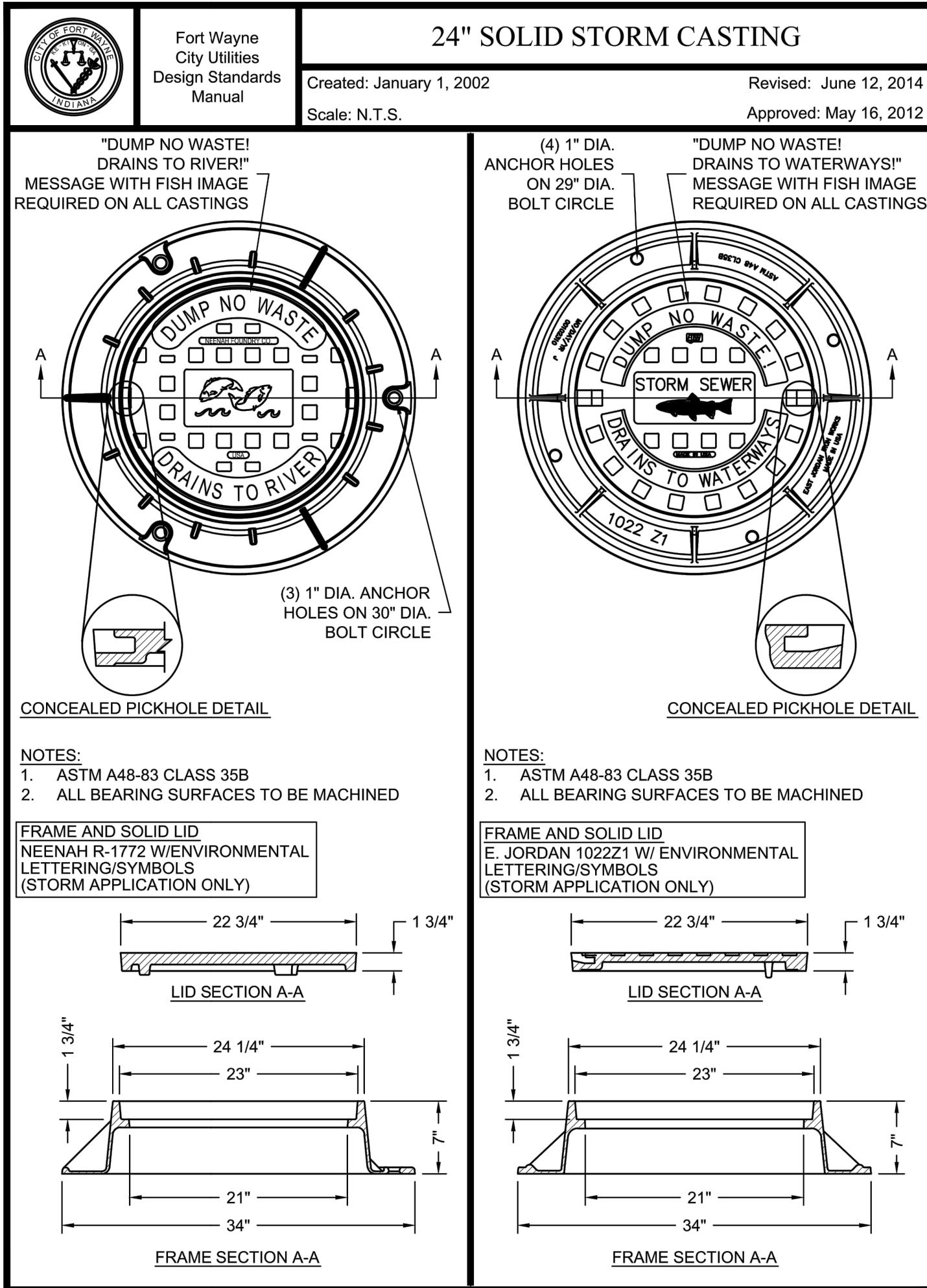


**COLDWATER ROAD CONCRETE STREET REHABILITATION**

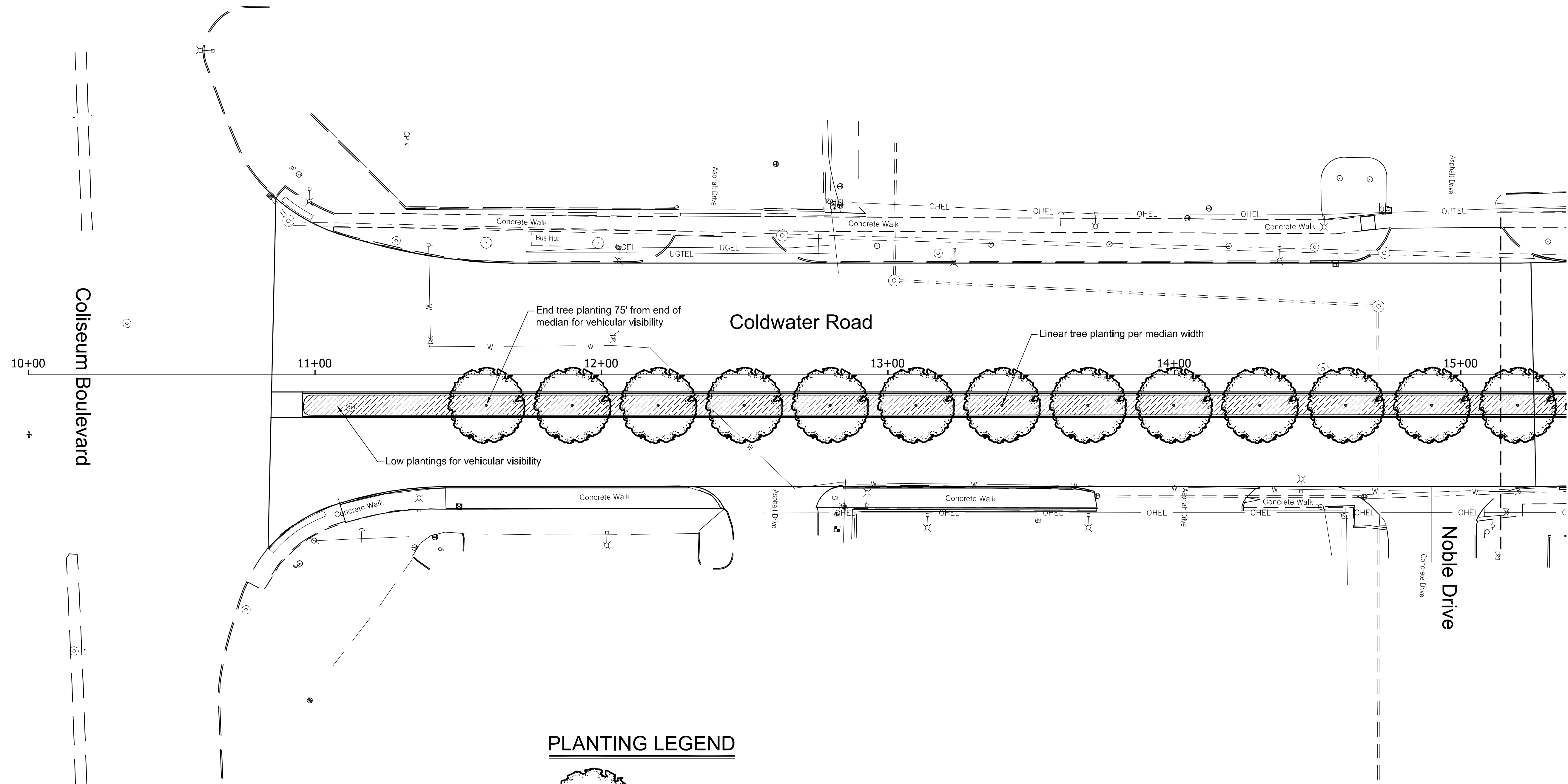
MISCELLANEOUS DETAILS

Designed by: A.D.S. RES. W.O. S.T.  
 Drawn by: E.M.H.  
 Checked by: C.H. PR # 14413 Sheet 33 of ##

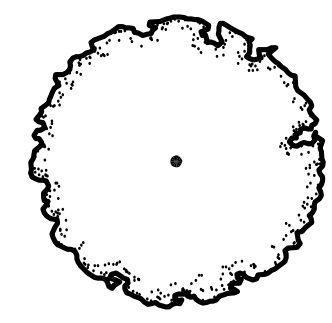







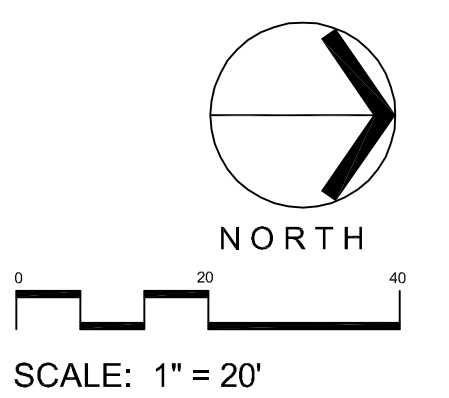
COLDWATER ROAD CONCRETE STREET REHABILITATION			
MISCELLANEOUS DETAILS			
Designed by: C.H.	RES. W.O.	S.T.	
Drawn by:	PR # 14413	Sheet	34 of ##
Checked by: E.M.H.			



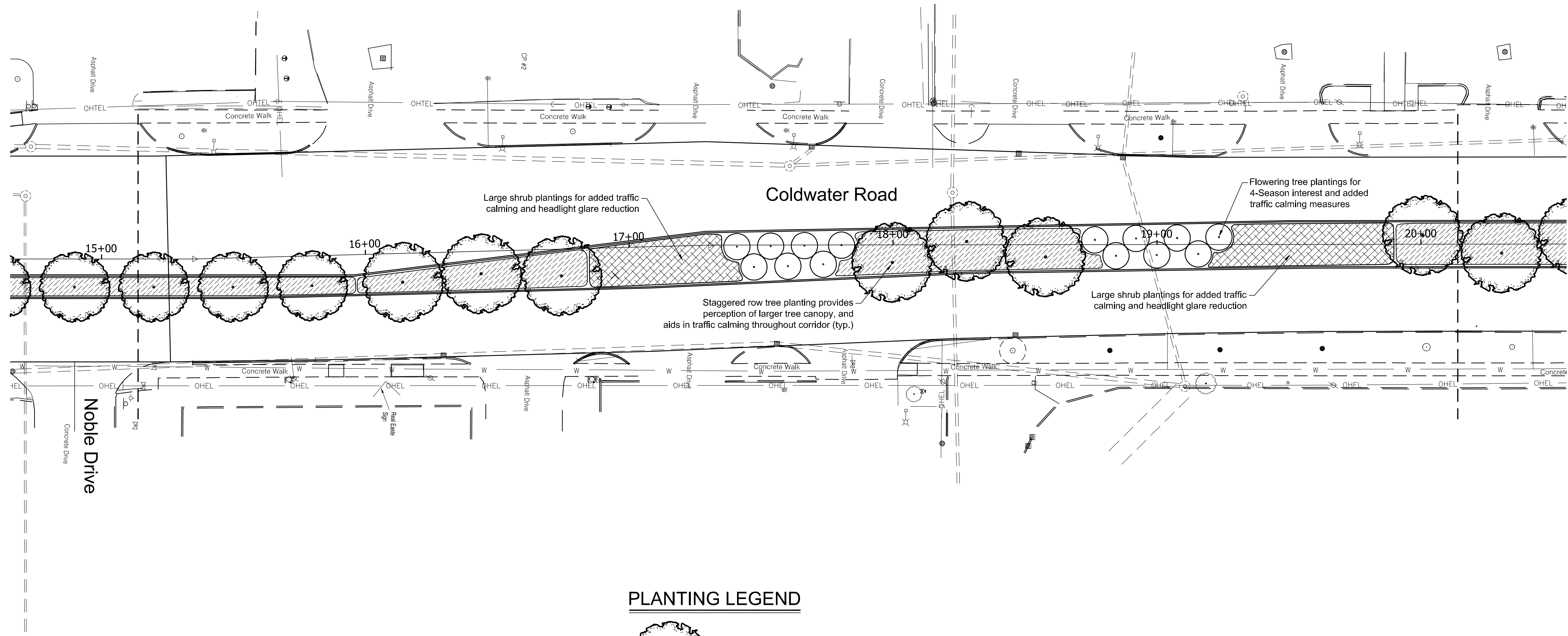
**PLANTING LEGEND**

-  Shade Tree with 30' Spacing
-  Flowering Tree with 10' Spacing
-  12-24" Tall Plantings
-  Large Shrub Plantings

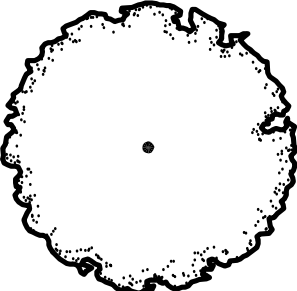



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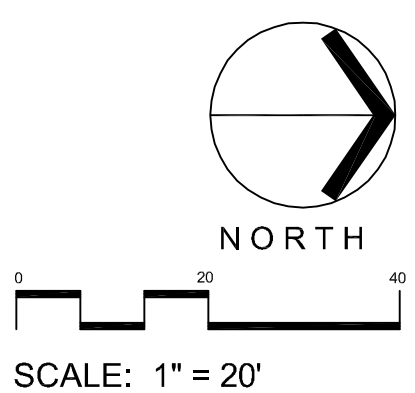
<b>COLDWATER ROAD CONCRETE STREET REHABILITATION LANDSCAPE PLANTING PLANS</b>			
Designed by: DPW	RES.	W.O.	S.T.
Drawn by: DPW	PR # 14413		Sheet 35 of ##
Checked by: DLE			



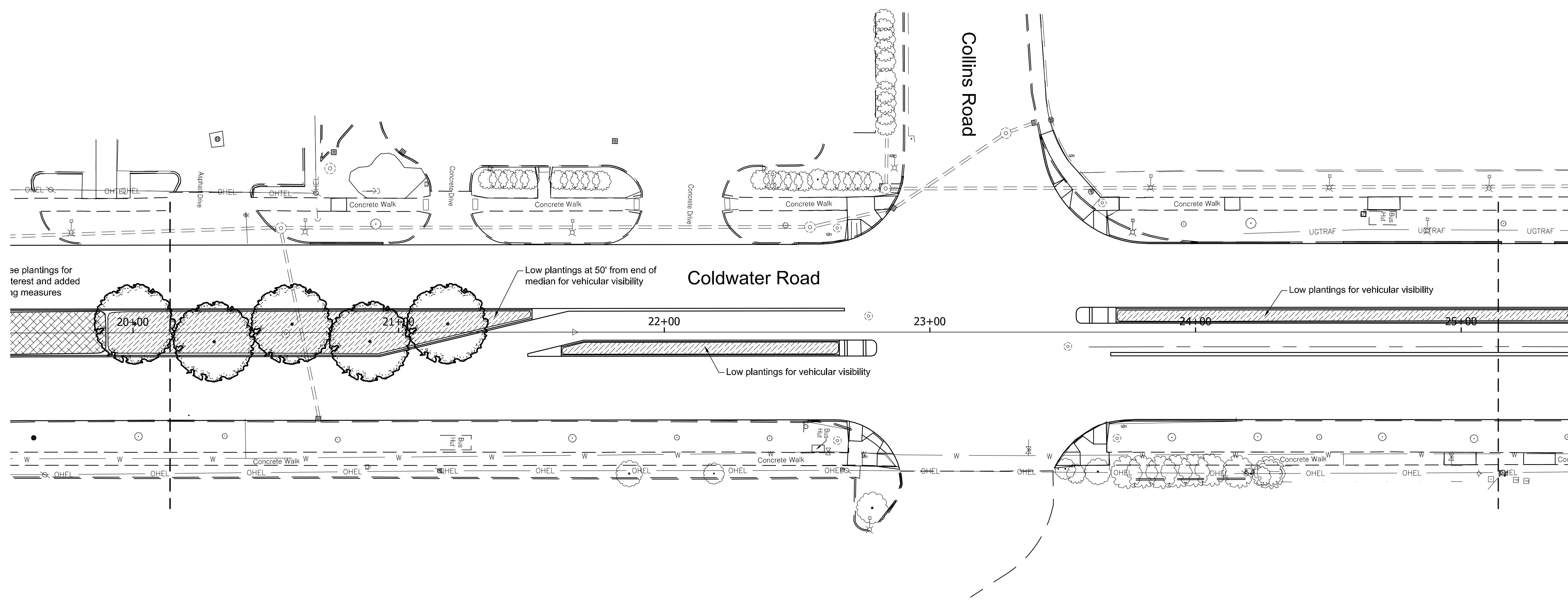
**PLANTING LEGEND**

-  Shade Tree with 30' Spacing
-  Flowering Tree with 10' Spacing
-  12-24" Tall Plantings
-  Large Shrub Plantings

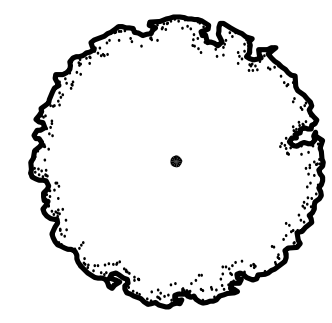



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30% CD Package



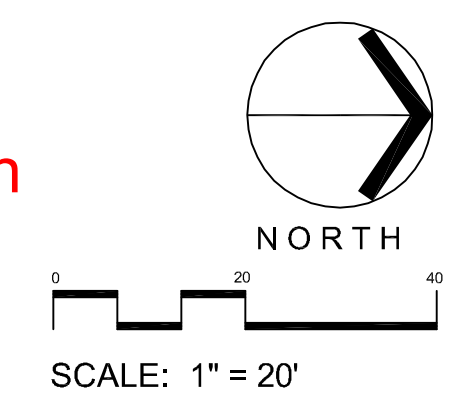
<b>COLDWATER ROAD CONCRETE STREET REHABILITATION LANDSCAPE PLANTING PLANS</b>			
Designed by: DPW	RES.	W.O.	S.T.
Drawn by: DPW	PR # 14413		Sheet 36 of ##
Checked by: DLE			



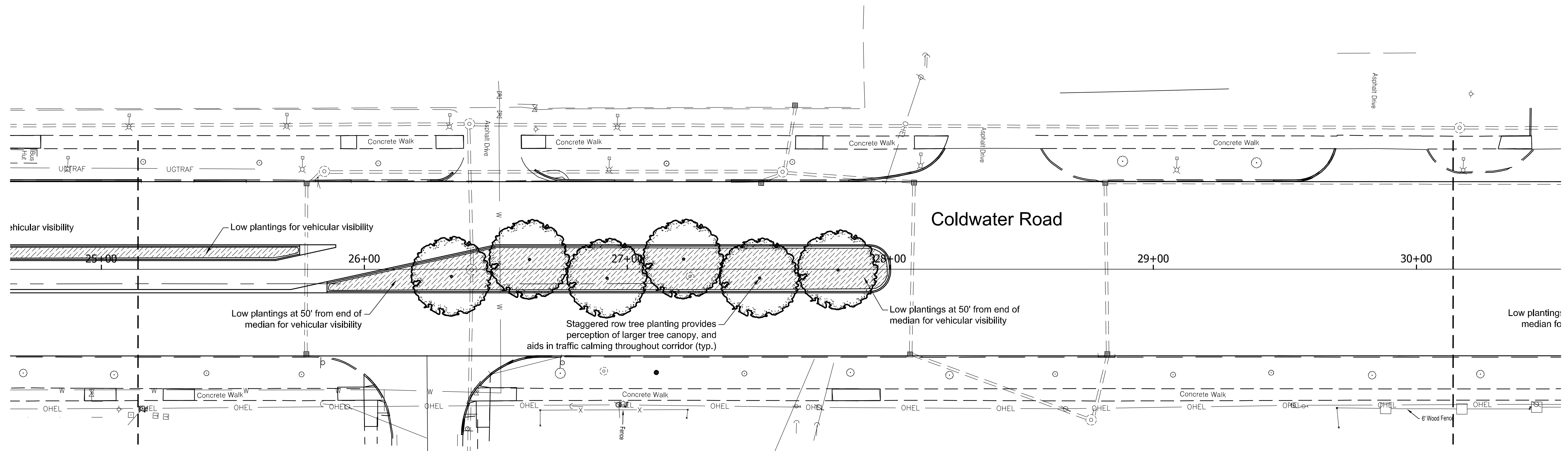
**PLANTING LEGEND**

-  Shade Tree with 30' Spacing
-  Flowering Tree with 10' Spacing
-  12-24" Tall Plantings
-  Large Shrub Plantings

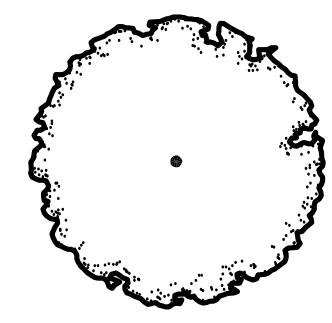

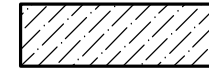

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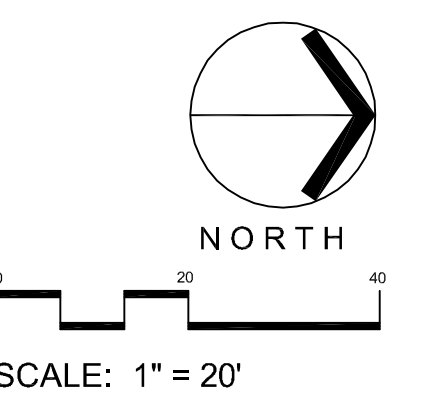
<b>COLDWATER ROAD CONCRETE STREET REHABILITATION LANDSCAPE PLANTING PLANS</b>			
Designed by: DPW	RES.	W.O.	S.T.
Drawn by: DPW	PR # 14413		Sheet 37 of ##
Checked by: DLE			



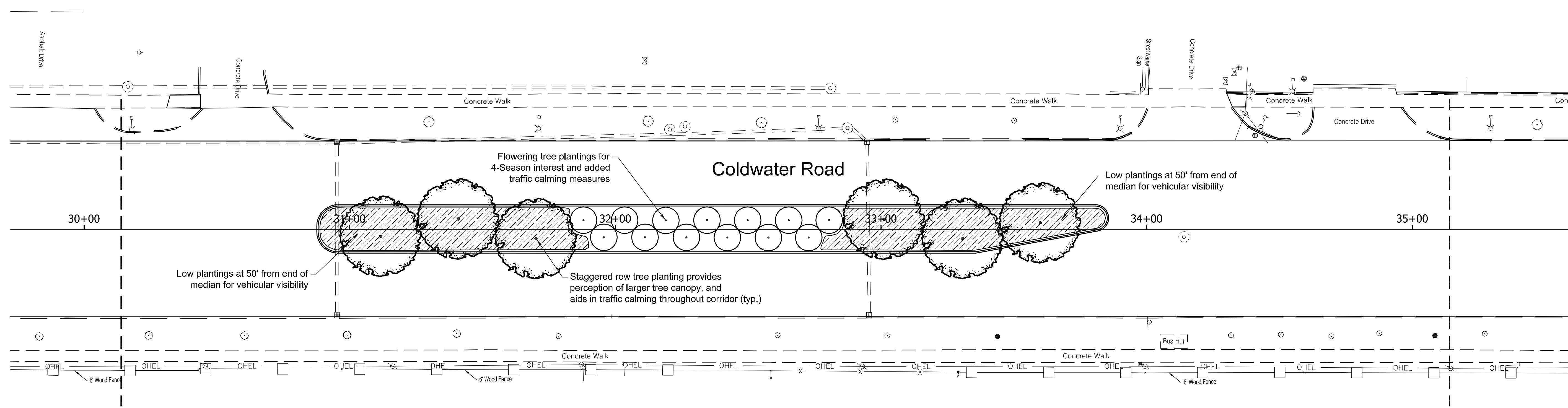
**PLANTING LEGEND**

-  Shade Tree with 30' Spacing
-  Flowering Tree with 10' Spacing
-  12-24" Tall Plantings
-  Large Shrub Plantings

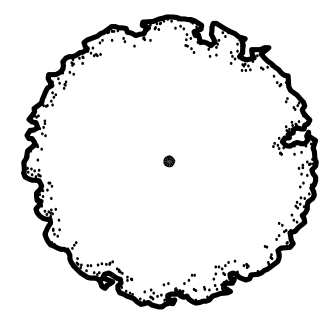



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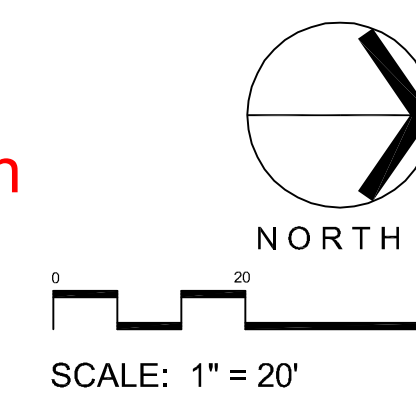
<b>COLDWATER ROAD CONCRETE STREET REHABILITATION LANDSCAPE PLANTING PLANS</b>			
Designed by: DPW	RES.	W.O.	S.T.
Drawn by: DPW	PR # 14413		Sheet 38 of ##
Checked by: DLE			



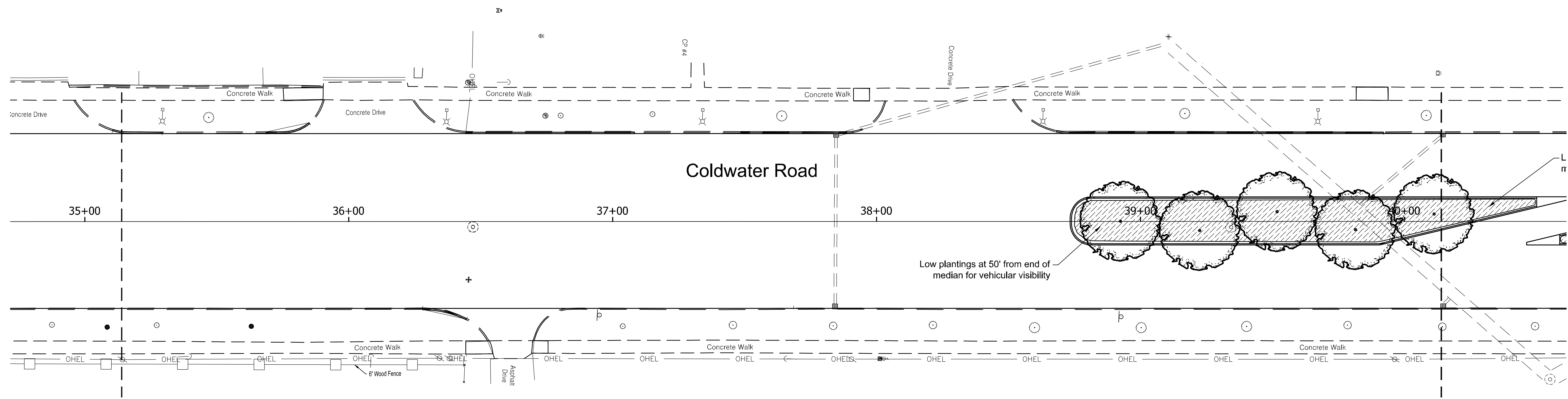
**PLANTING LEGEND**

-  Shade Tree with 30' Spacing
-  Flowering Tree with 10' Spacing
-  12-24" Tall Plantings
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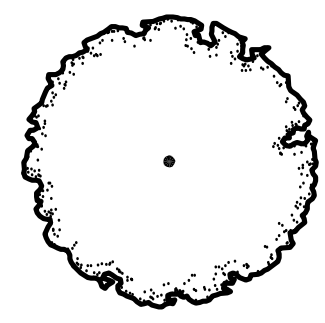



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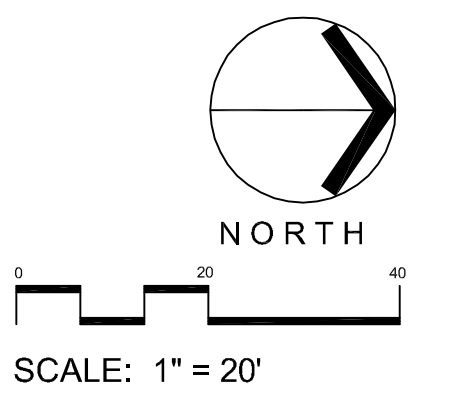
<b>COLDWATER ROAD CONCRETE STREET REHABILITATION LANDSCAPE PLANTING PLANS</b>			
Designed by: DPW	RES.	W.O.	S.T.
Drawn by: DPW	PR # 14413		Sheet 39 of ##
Checked by: DLE			



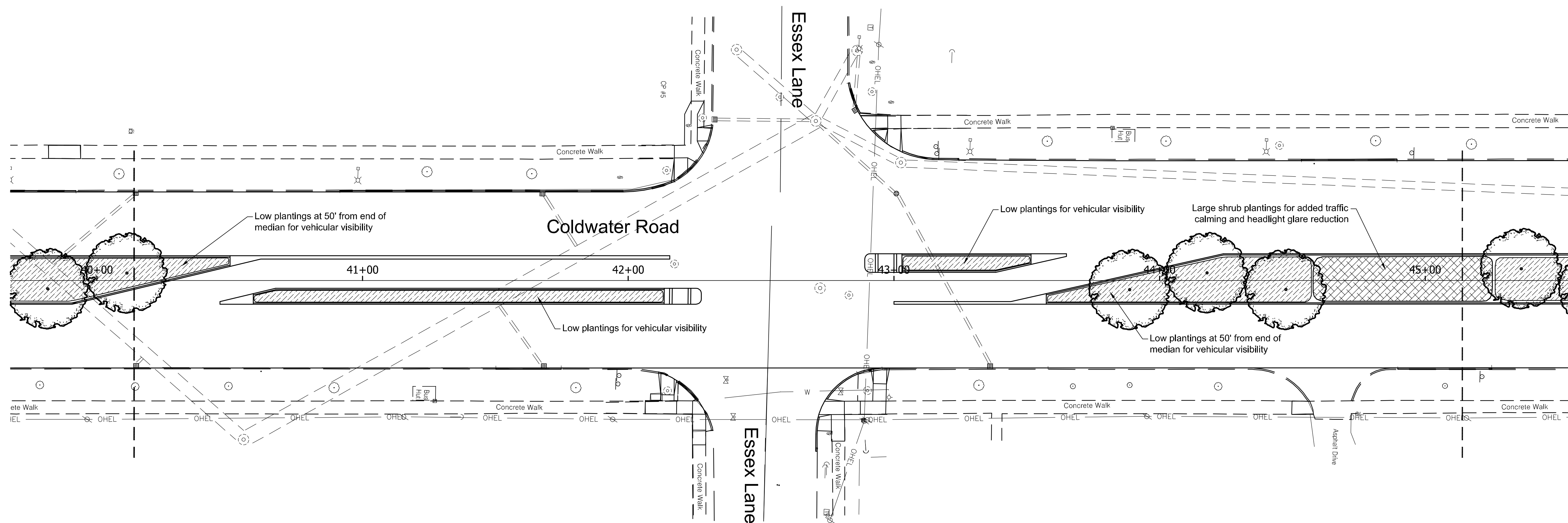
**PLANTING LEGEND**

-  Shade Tree with 30' Spacing
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-  12-24" Tall Plantings
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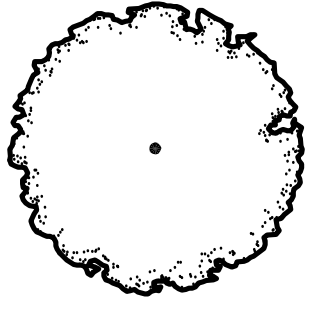

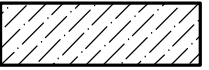

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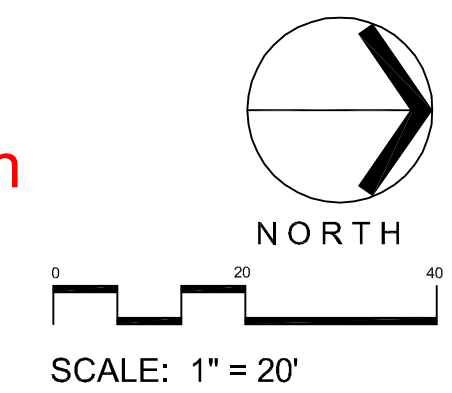
<b>COLDWATER ROAD CONCRETE STREET REHABILITATION LANDSCAPE PLANTING PLANS</b>			
Designed by: DPW	RES.	W.O.	S.T.
Drawn by: DPW	PR # 14413		Sheet 40 of ##
Checked by: DLE			



**PLANTING LEGEND**

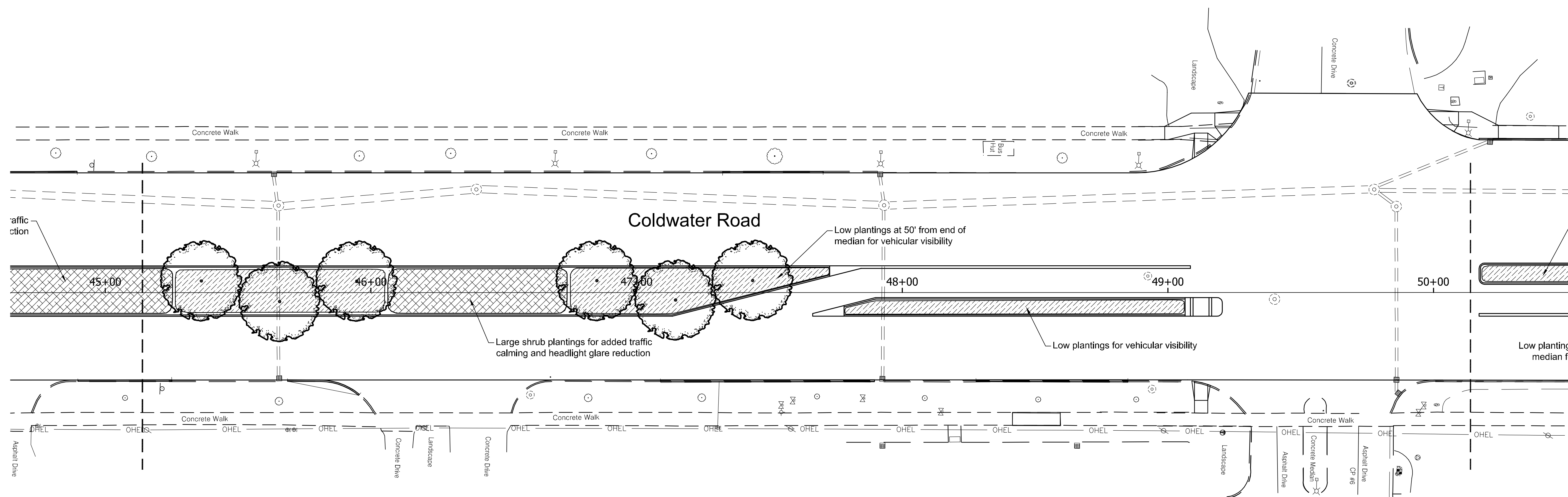
-  Shade Tree with 30' Spacing
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-  12-24" Tall Plantings
-  Large Shrub Plantings

Preliminary Not For Construction  
30% CD Package

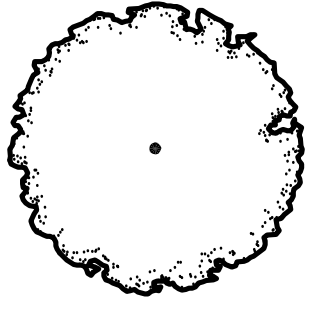





<b>COLDWATER ROAD CONCRETE STREET REHABILITATION LANDSCAPE PLANTING PLANS</b>			
Designed by: DPW	RES.	W.O.	S.T.
Drawn by: DPW	PR # 14413		Sheet 41 of ##
Checked by: DLE			

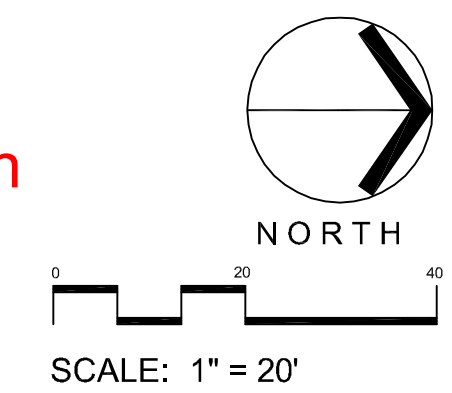




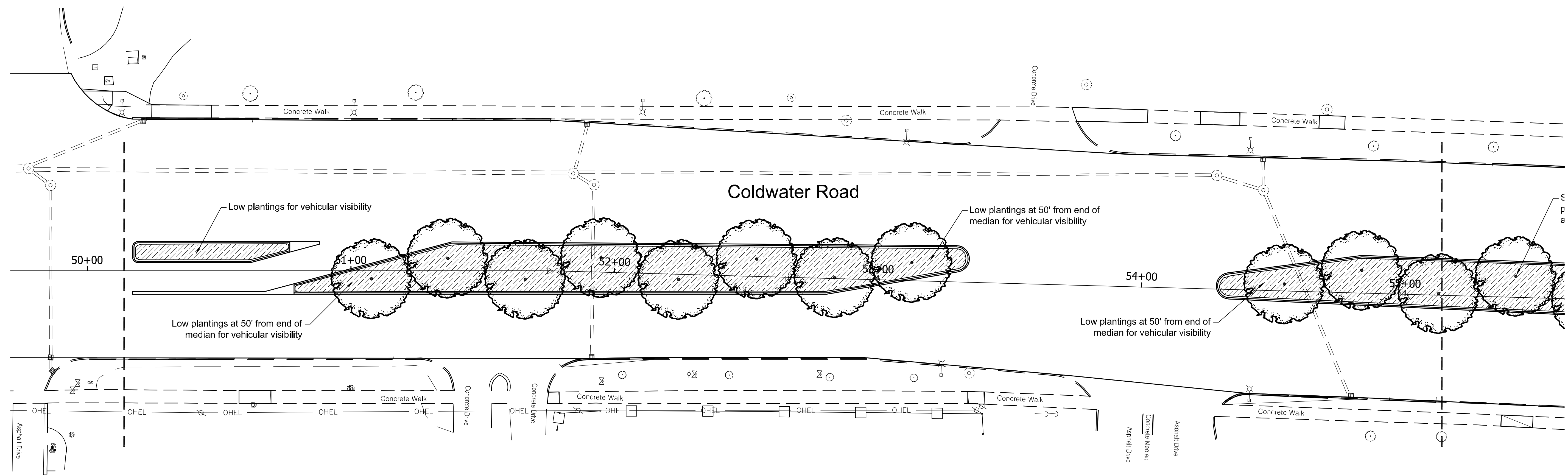
**PLANTING LEGEND**

-  Shade Tree with 30' Spacing
-  Flowering Tree with 10' Spacing
-  12-24" Tall Plantings
-  Large Shrub Plantings

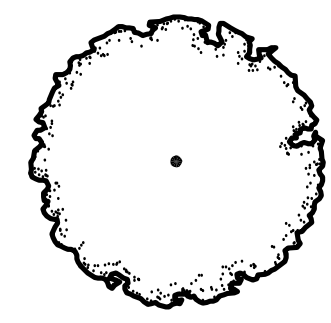



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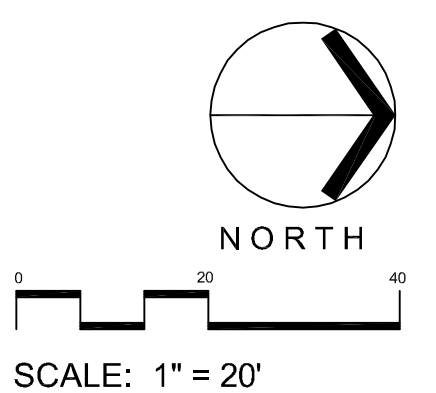
<b>COLDWATER ROAD CONCRETE STREET REHABILITATION LANDSCAPE PLANTING PLANS</b>			
Designed by: DPW	RES.	W.O.	S.T.
Drawn by: DPW	PR # 14413		Sheet 42 of ##
Checked by: DLE			



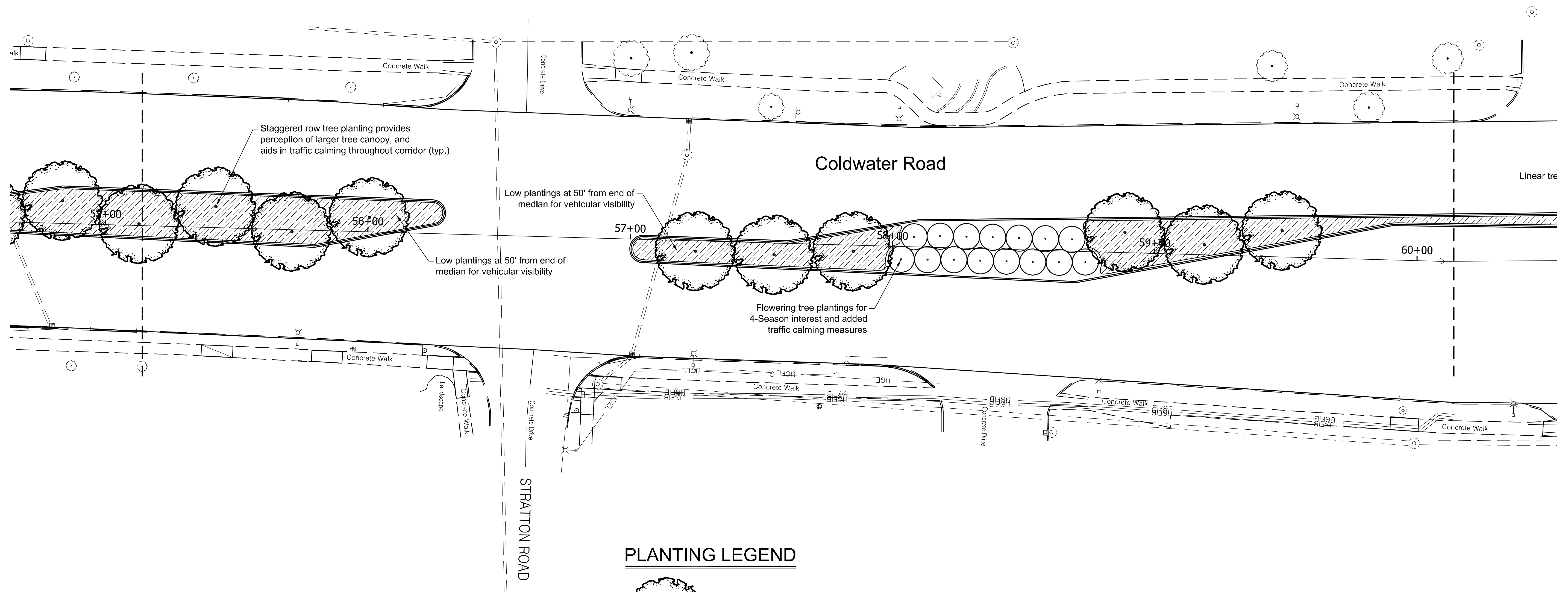
**PLANTING LEGEND**

-  Shade Tree with 30' Spacing
-  Flowering Tree with 10' Spacing
-  12-24" Tall Plantings
-  Large Shrub Plantings

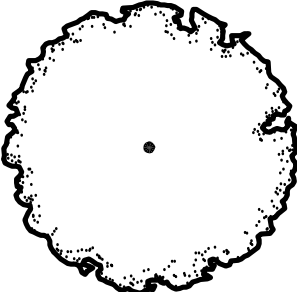



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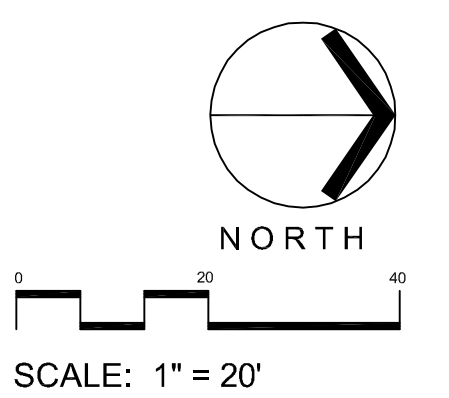
<b>COLDWATER ROAD CONCRETE STREET REHABILITATION LANDSCAPE PLANTING PLANS</b>			
Designed by: DPW	RES.	W.O.	S.T.
Drawn by: DPW	PR # 14413		Sheet 43 of ##
Checked by: DLE			



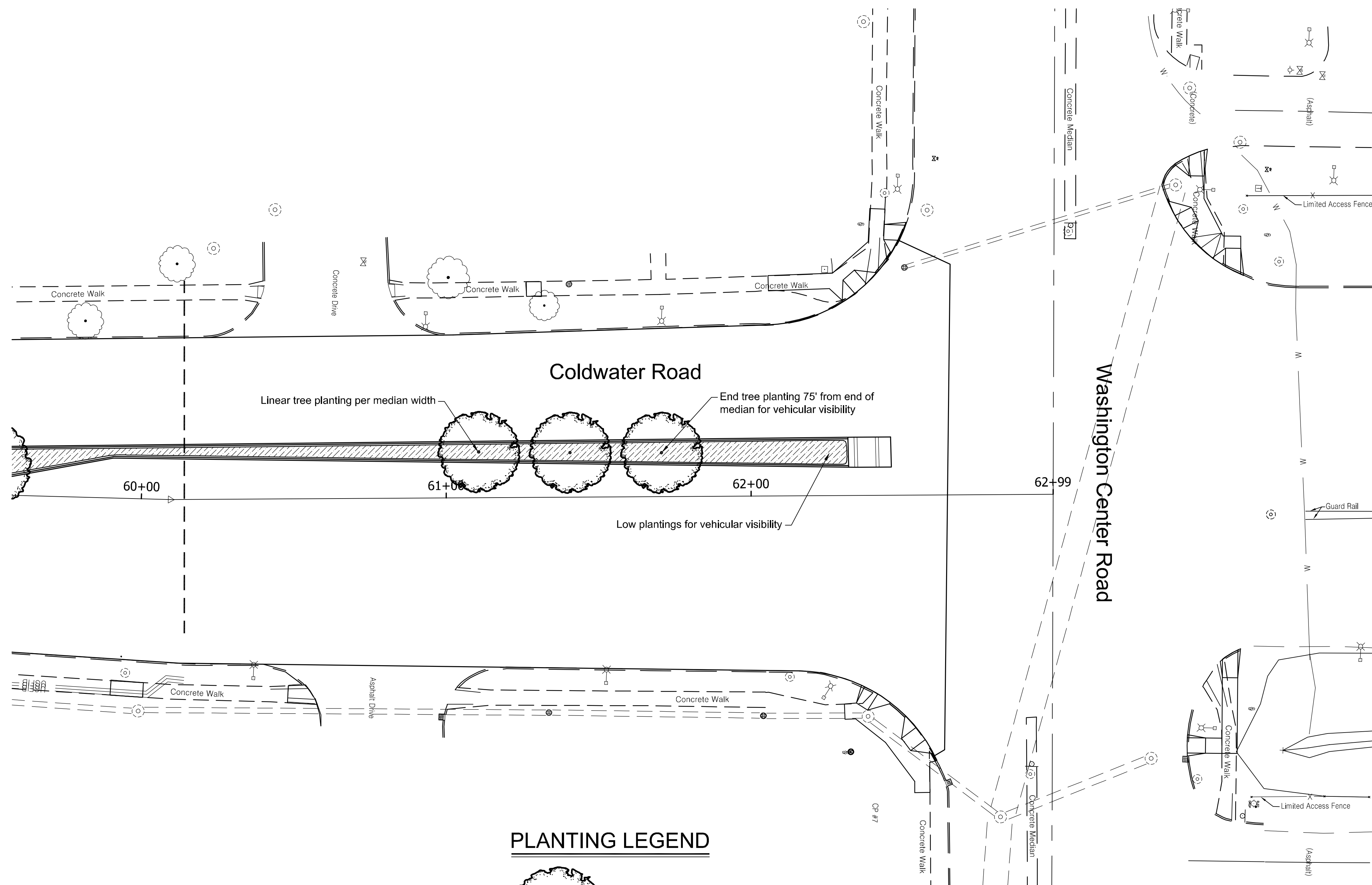
**PLANTING LEGEND**

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<b>COLDWATER ROAD CONCRETE STREET REHABILITATION LANDSCAPE PLANTING PLANS</b>			
Designed by: DPW	RES.	W.O.	S.T.
Drawn by: DPW	PR # 14413		Sheet 44 of ##
Checked by: DLE			

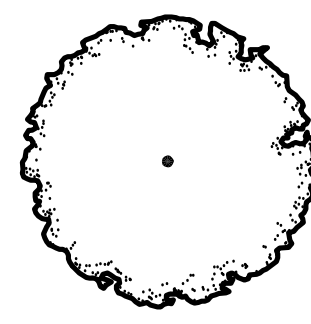
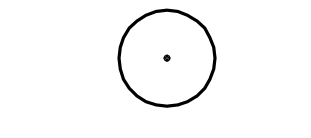
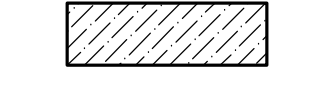
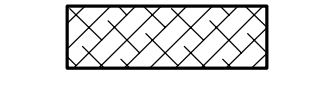


Linear tree planting per median width

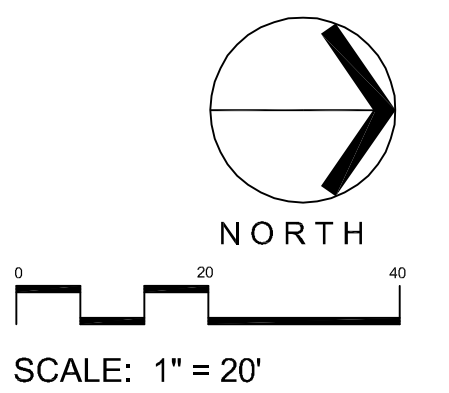
End tree planting 75' from end of median for vehicular visibility

Low plantings for vehicular visibility

**PLANTING LEGEND**

-  Shade Tree with 30' Spacing
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<b>COLDWATER ROAD CONCRETE STREET REHABILITATION LANDSCAPE PLANTING PLANS</b>			
Designed by: DPW	RES.	W.O.	S.T.
Drawn by: DPW	PR # 14413		Sheet 45 of ##
Checked by: DLE			