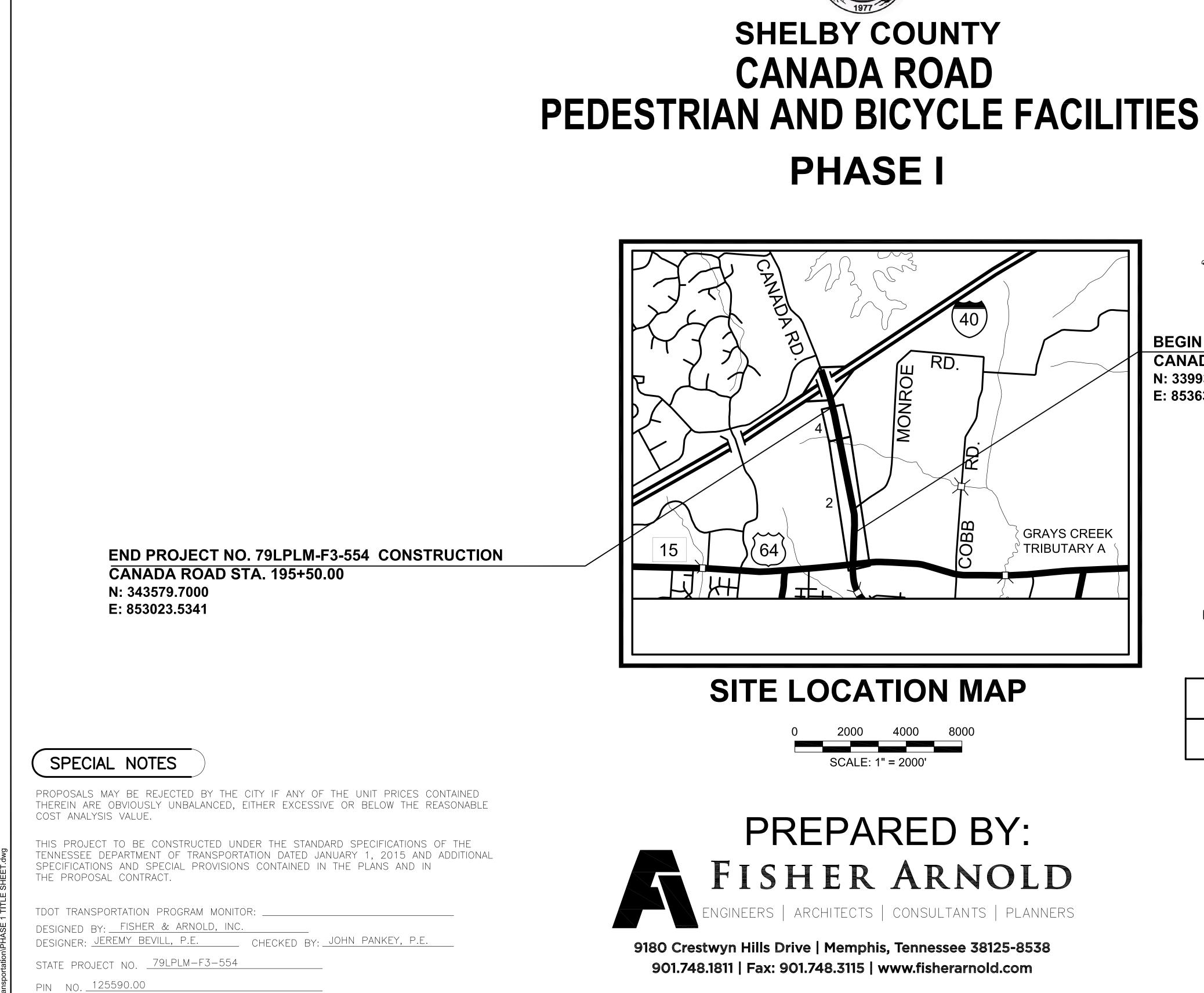
CITY OF LAKELAND, TENNESSEE

INDEX OF SHEETS

SEE SHEET NO. 1A





CANADA ROAD STA. 158+43.77 N: 339932.9824 E: 853639.9038

> COORDINATES ARE STATE PLANE AND NOT DATUM ADJUSTED

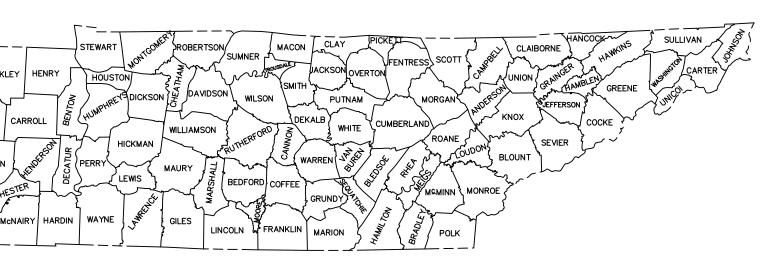
TRAFFIC POSTED SPEED: 45 M.P.H. 2017 ADT: 13,194

NO EXCLUSIONS **NO EQUATIONS**

TENN	YEAR	SHEET NO.
	2019 1	
FED. AID PROJ. NO.	TAP-M-7900(59)	
STATE PROJ. NO.	79LPLM-F3-554	

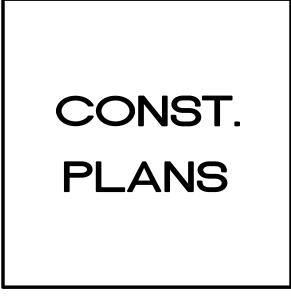
LOCALLY MANAGED PROJECT

LOCALLY LET PROJECT



PROJECT LOCATION

BEGIN PROJECT NO. 79LPLM-F3-554



SEALED BY 09/30/201

APPROVED:

CITY ENGINEER

DATE

APPROVED:

MAYOR

DATE

ROADWAY INDEX

SHEET NAME	SHEET NO.	DWG.	RE
TITLE SHEET	1	ROADWA	Y DESI
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ESTIMATED ROADWAY QUANTITIES	2	RD-L-5	05-01-
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B		
GENERAL NOTES	2C, 2C1, 2C2	RD-L-6	03-30-
SPECIAL NOTES	2D	RD-L-7	05-24-
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UTILITY NOTES AND UTILITY OWNERS	3	D-PB-1	03-16-
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PROPOSED LAYOUT(S)	4B	D-PE-18B	
PROPOSED PROFILE(S)	4C	D-PE-24A	07-05-
DRAINAGE MAP(S)	5		
EROSION PREVENTION AND SEDIMENT CONTROL PLANS		D-PE-24B	
SIGN DETAIL(S)	9	D-PE-9	04-25-
TRAFFIC CONTROL PLANS	T1 – T4		0 1 20
LIGHTING PLANS	L-1		
NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT	USED IN	CATCH B	ASINS
NUMBERING OF SHEETS.		D-CB-12P	05-15-

D-CB-12S

D-CB-14P

D-CB-14S

D-CB-99R

D-CB-99RA

D-CBB-12A

RP-VC-10	
W-CIP-1	05-07

MULTIMODAL

MM-CR-1
MM-CR-2
MM-CR-3
MM-CR-5
MM-CR-6
MM-CR-7
MM-CR-8
MM-CR-9

STANDARD ROADWAY DRAWINGS

DESCRIPTION EV.

SIGN STANDARDS

- STANDARD ABBREVIATIONS 8-99
- STANDARD LEGEND 6-94
- STANDARD LEGEND FOR EROSION PREVENTION AND 1-08 SEDIMENT CONTROL
- 0-10 STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
- 4-12 STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL

S AND ENDWALLS

- STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION 6-17
- 18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 6-15 SLOPES)

18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)

24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 5-17 SLOPES)

> 24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)

CONCRETE ENDWALLS TYPE "B" (FOR ROUND & SIDE 5-90 TAPERED INLETS, PIPE SIZES 15" TO 78", ALL SKEWS, 2:1 AND 4:1 SLOPES) 1976

SAND MANHOLES

- 5-18 STANDARD PRECAST RECTANGULAR CONCRETE NO.12 CATCH BASIN
- STANDARD RECTANGULAR CONCRETE NO. 12 CATCH 05-15-18 BASIN
- STANDARD PRECASE RECTANGULAR CONCRETE NO.14 05-15-18 CATCH BASIN
- STANDARD RECTANGULAR CONCRETE NO.14 CATCH 05-15-18 BASIN
- 03-11-14 MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
- 03-19-14 BILL OF STEEL FOR ROUND CATCH BASIN LIDS
- TYPE 'B' CAST IRON FRAME, GRATE & NONMOUNTABLE 05-27-01 INLET DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS

ROADWAY AND PAVEMENT APPURTENANCES

VERTICAL CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS

07-18 ROADWAY FEATURES AT CAST IN PLACE RETAINING WALL

> DETECTABLE WARNING SURFACE PLACEMENT ON CURB RAMPS

PERPENDICULAR CURB RAMP

- PARALLEL CURB RAMP
- SINGLE CROSSING CURB RAMP IN CURVE

DUAL CROSSING CURB RAMP PLACED OUTSIDE CURVE

CURB RAMPS IN CURVE BI-DIRECTIONAL DUAL CROSSING

MONO-DIRECTIONAL SINGLE CROSSWALK CURB RAMP DETAILS

ALTERNATIVE CURB RAMP DETAILS

DWG.	REV.	DESCRIPTION
MM-PM-1		SIGNING AND PAVEMEN CROSSINGS FOR SHARE
MM-BPR-1		BIKE AND PEDESTRIAN
MM-PS-1		DETAILS FOR PEDESTRI
MM-SW-1		DETAILS FOR CONCRET
MM-TS-1	01-07-19	BIKE ACCOMMODATION
MM-TS-2	01-07-19	LATERAL OFFSETS FOR PATH
MM-TS-3		SEPARATED SHARED US

SAFETY DESIGN AND FENCES

S-CZ-1		CLEAR ZONE CRITERIA
S-CB-1		CABLE BARRIER PLACE
S-CC-1	03-28-17	CRASH CUSHION
S-CC-2		CRASH CUSHION (GATIN

DESIGN - TRAFFIC CONTROL

T-FAB-1	05-27-97	FLASHING YELLOW ARR

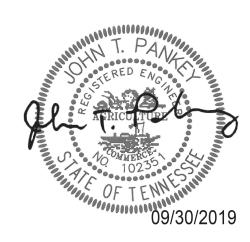
EROSION PREVENTION AND SEDIMENT CONTROL

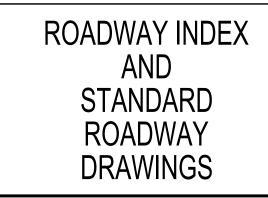
EC-STR-3B	03-16-17	SILT FENCE
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOI
EC-STR-39A	08-01-12	CURB INLET PROTECTIO
EC-STR-40		CATCH BASIN FILTER AS STRUCTURES
EC-STR-41		CATCH BASIN FILTER AS
EC-STR-41A DETAILS		CATCH BASIN FILTER ASS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	79LPLM-F3-554	1A

- NT MARKINGS AT INTERSECTION RED-USE PATHS
- I SAFETY RAIL
- RIAN STEPS AND HANDRAILS
- TE SIDEWALKS
- DESIGN GUIDANCE
- SIDEWALK AND SHARED USE
- JSE PATH TYPICAL SECTIONS
- EMENT
- CRASH CUSHION (GATING) BARREL ARRAY
 - ROW BOARD

- DINING DETAILS ION TYPE 3 & 4 ASSEMBLY FOR CIRCULAR
- ASSEMBLY (TYPE 1) SEMBLY (TYPE 1) SLIPCOVER

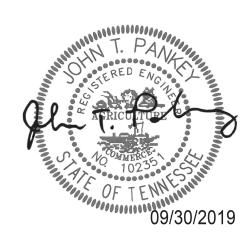




* NO PROJECT COMMITMENTS

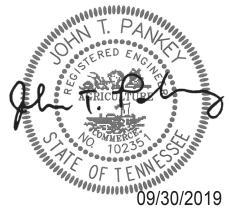
	PROJECT COMMITMENTS				
COMMITMENT ID SOURCE DIVISON DESCRIPTION STA. / LOCATION					

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	79LPLM-F3-554	1B
	-		



PROJECT COMMITMENTS

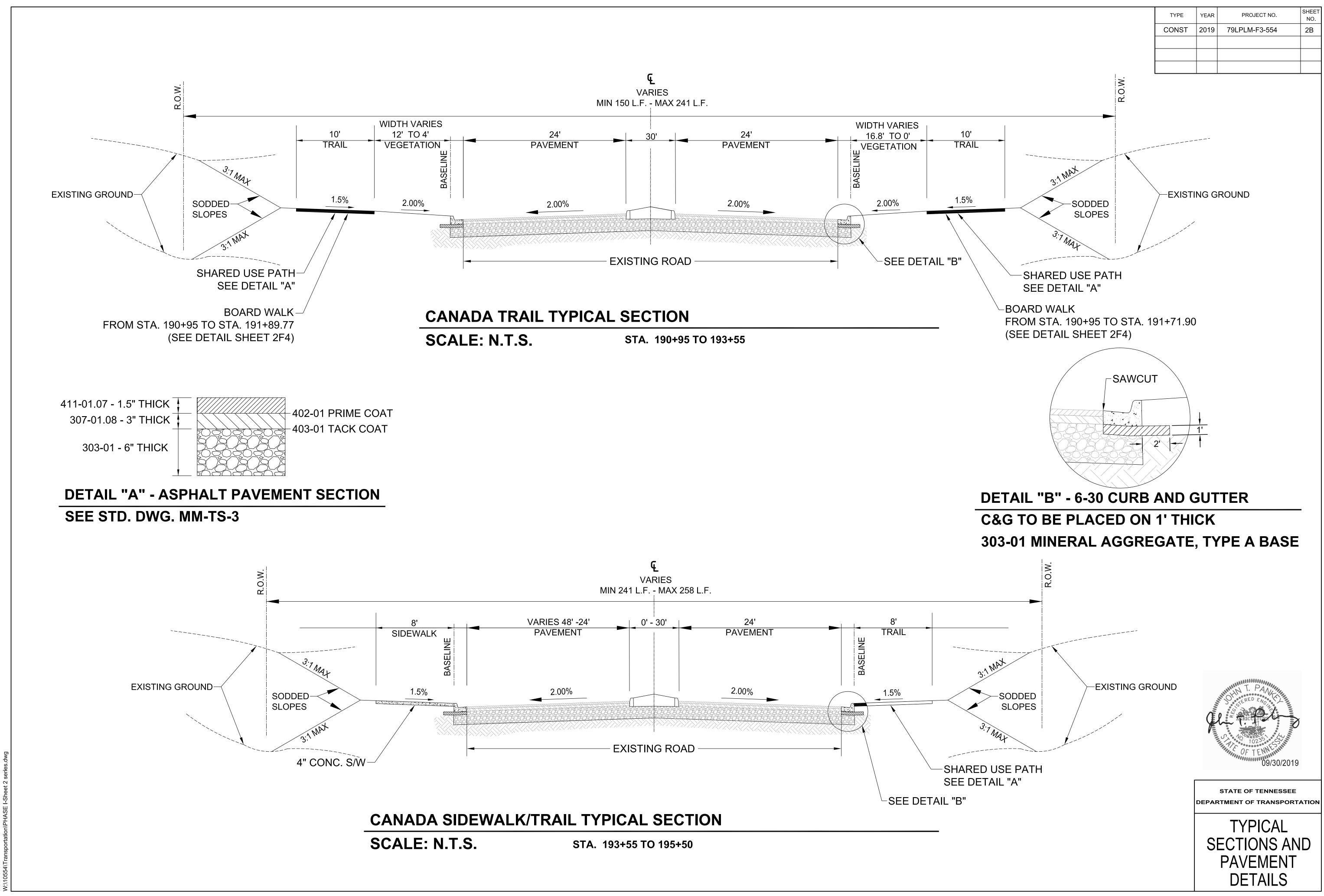
									TYPE	YEAR	PROJECT NO.
				_					CONST.	2019	79LPLM-F3-554
	ESTIMATED ROADWAY QUA	NTITIES				ESTIMATED ROADWAY QUA	NTITIES				
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 79LPLM-F3-556	ITEM	NO.	DESCRIPTION	UNIT	QUANTITY 79LPLM-F3-556			
202-01.56	Removal of Structures and Obstructions (Guardrail)	LS	1	716-0	8.32	Hydroblast Removal of Pavement Marking (Crosswalks)	LF	1,345			
202-03	Removal of Rigid Pavement, Sidewalk, Etc.	SY	320	3 716-1	2.06	Enhanced flat thermal pavement marking (8" line)	LF	1,214			
202-03.01	Removal of Asphalt Pavement	SY	450	717-	01	Mobilization	LS	1			
202-08.15	Removal of Curb and Gutter	LF	400	740-1	0.03	Geotextile (Type III) (Erosion Control)	SY	86			
3 203-01	Road & Drainage Excavation (Unclassified)	CY	8	797-0	7.04	48" Manhole in 8-10' depth	EA	3			
203-10	Embankment (Compacted in Place)	CY	600	801-	01	Seeding (with mulch)	UNIT	30			
3 209-03.21	Filter Sock (12 inch)	LF	50	801-	03	Water (seeding and sodding)	MG	71			
3 209-05	Sediment Removal	CY	10	802-0	1.10	Trees - Emerald Sentinal Red Cedar - 5-6' ht.	EA	15			
3 209-08.02	Temporary Silt Fence (With Backing)	LF	900	802-0	1.11	Trees - Keteleeri Chinese Juniper - 5-6' ht.	EA	23			
3 209-09.43	Curb Inlet Protection (Type 4)	EA	8	802-0	1.12	Trees - Shantung Maple - 2.5" Cal.	EA	48			
3 209-40.34	Catch Basin Protection (Type E)	EA	6	802-0	1.13	Trees - Teddy Bear Magnolia - 5-6' ht.	EA	3			
1 303-01	Mineral Aggregate, Type A Base, Grading D	TON	319	802-0	3.01	Shrubs - Green Mound Juniper - 18" spr.	EA	56			
3 303-10.01	Mineral Aggregate, Size 57	TON	368	802-0	3.02	Shrubs - Hameln Fountain Grass - 5 gal.	EA	24			
1 307-01.08	Asphalt Concrete Mix(PG64-22) (BPMB-HM) Grading B-M2	TON	92	802-0	3.03	Shrubs - Sweetspire - 18" spr.	EA	58			
	Aggregate for Cover Material (PC)	TON	3	802-0	4.01	Groundcover - Blue Pacific Juniper - 18" spr.	SY	19			
<u> </u>	Bituminous Materials for Tack Coat (TC)	TON	0.3	802-0	4.02	Groundcover - Happy Returns Daylily - 1 gal	SY	71			
\sim	Saw-Cutting Asphalt Pavement	LF	1,990		05	Water (Plant Establishment)	M.G.	30			
	ACS Mix (PG64-22) Grading E Shoulder	TON	43	802-0	5.03	Refillable Drip Irrigation Flexible Bag	EA	89			
	Portland Cement Concrete Pavement, Plain (10")	SY	602			Sodding (New Sod)	SY	1,050			
	Concrete Shoulders	SY	113	-		2" wood mulch	CY	12			
	Transverse Tie Bars	EA	216			Decorative solar bollards	EA	20			
	Box Tube Safety Rail	LF	170			Steel backed timber guardrail, Type A	LF	510			
	Concrete Imprinting	SF	5,410			Terminal Anchor Type SBT, FAT - 30 Approach End	EA	2			
	Concrete Pigment	LB	4,500			Terminal Anchor Type SBT, FAT - 30 Departure End	EA	2			
	18" Concrete Pipe Culvert (Class III)	LF	223	920-		Pedestrian Timber Boardwalk	L.F.	110			
	24" Concrete Pipe Culvert (Class III)	LF C.Y.	465	920-1	3.04	Removable Bollard	EA	2			
	Class A Concrete (Pipe Endwalls)	LB.	3								
\sim	Steel Bar Reinforcement (Pipe Endwalls)		282) I N(OTES:					
\sim	Catch Basin, Type 12, 0'-4' Depth	EA		1 1 5	FF -	TABULATED QUANTITIES ON SHT. 2E.					
$\tilde{\circ}$	Catch Basin, Type 12, 4'-8' Depth	EA	Z1			DETAIL SHTS. 2F AND 2F1.					
	Catch Basin, Type 14, 4'-8' Depth	EA SF	ـــــــــــــــــــــــــــــــــــــ	_							
	Concrete Sidewalk (4") Concrete Curb Ramp	SF	<u> </u>			E USED FOR EROSION CONTROL.					
	Concrete Curb Kamp Concrete Curb		11	4.11	EIVI	TO BE USED AS DIRECTED BY THE ENG	INEER.				
	Concrete Curb Concrete Combined Curb and Gutter		157	-							
	Sign Walls	EA	2	-							
	Machined Rip-Rap (Class A-3)	TON	50	-							
	Machined Rip-Rap (Class A-3) Machined Rip-Rap (Class A-1)	TON	35	-1						1000	
	Traffic Control	LS	<u></u>	-						anger of the	ERED ENO
	Flexible Drums (Channelizing)	EA	<u>1</u> 60	-					/	REC.	RICHTER
	Signs (Construction)	S.F.	259	-							
	Temporary Barricades (Type III)	L.F.	96	-							0 TO 235
	Arrow Board (Type C)	EA	2	1							09/30/2019
	Surface Mnt Breakaway Base for Sign Post	EA	7	1							
	Square Tube Sign Support	LA	355	1							
	Flat sheet aluminum signs (0.100" thick)	SF	38	1						ES	TIMATED
	Plastic pavement marking (24" barrier line)	LF	128	1							ADWAY
. 10 02.07				_1						Rυ	



SHEET NO.

2

QUANTITIES



GENERAL NOTES

GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN (2) ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR (3) OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

- ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED (4) AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS WILL BE MEASURED AND PAID FOR UNDER ITEMS 203-04 AND/OR 203-07. SEEDING. IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.
- SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO (5) PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.
- ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE (6) EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

GUARDRAIL

- (1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.
- (2) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE "A" LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING TEMPORARY BARRICADES OR DRUMS WITH TYPE "A" LIGHTS TO DELINEATE GUARDRAIL END AND A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL END TERMINAL

DRAINAGE

- (3) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- EXCAVATION FOR DRAINAGE PIPES WILL NOT BE MEASURED AND PAID (4) FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE (PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).
- WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION (5) OTHER THAN THAT SHOWN ON THE PLANS. INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.
- DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST (6) ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

C.Y.

MISCELLANEOUS

(9)

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(11)	ADVA FORT SIGNS FACE
(12)	IF THE REMC OF RE MEAS INCLU (CON
(13)	A LON SIGN, FACE
(14)	TRAF UNLE
(15)	USE C LIMITI IS PR ROAD BEFO RAIL, ROAD LESS FEET DESIC HORIZ CONS ARE N TO PF DETE APPR
(16)	THE C CONS THIRT TO TF BARR CURF MPH. ROAD SPEE CURV WITH PROT LESS DISTA ROAD SPEE CURV THIS I ALTEI USE T
(17)	ALL D ACCC DEVIC
(18)	ALL D

ALL EXISTING PIPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER THAT ARE TO BE LEFT IN PLACE AND ABANDONED MUST BE BACKFILLED AND PLUGGED. ALL COST FOR THIS WORK SHALL BE INCLUDED IN ITEM NO. 204-08.01. BACKFILL MATERIAL (FLOWABLE FILL).

ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.

THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.

(10) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

(11) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. S MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED. IF THE SIGN IS FULLY COVERED.

> IE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR OVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS EMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE SURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE UDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS ISTRUCTION) PER SQUARE FOOT.

NG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN IS FULLY COVERED.

FIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED ESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE ED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD RESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE DWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY DRE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR DWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND GN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A IZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE STRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY ROVIDE FOR THIS REQUIRED SETBACK. THE CONTRACTOR SHALL ERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S ROVAL TO USE THEM.

CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR STRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY. WITHIN TY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN RAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR RIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH RENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60

THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR DWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN ED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL VE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK IN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS FECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS ANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR DWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN ED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL VE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR REQUIRED SETBACK. THE CONTRACTOR SHALL DETERMINE THE RNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO THFM.

DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL CES.

DETOURS SHALL BE PAVED, STRIPED, SIGNED, AND FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

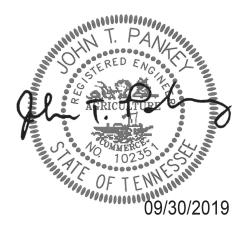
EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

- (19) IF DISTURBED ACREAGE IS EQUAL TO ONE ACRE OR MORE, PLEASE CONTACT CITY OF LAKELAND AS SOON AS POSSIBLE BECAUSE AN NPDES PERMIT WILL BE REQUIRED.
- AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- (21) UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES.
- (22) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 14 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS APPLIED.
- CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN (23) VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

SEDIMENT CONTROL

- (24) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
- TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE/DURING A PRECIPITATION EVENT.
- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFFSITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFFSITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE NEGOTIATED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.
- (27) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
- THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS. ETC. THAT HAVE COLLECTED STORMWATER. WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER DISCHARGED SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL-VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.



SHEE IYEAR TYPE PROJECT NO. NO. 79LMLP-F3-554 CONST. 2019 2C

> GENERAL NOTES

NATURAL RESOURCES

- (1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR. ENTRENCHED AND STAKED. AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
- NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND (2) STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.
- INSTREAM EPSC DEVICES REQUIRE A REVIEW BY CITY OF LAKELAND TO (3) OBTAIN WATER QUALITY PERMITS.
- THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., (4) INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS. IS NOT ALLOWED.
- THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS (5) SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.
- STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR (6) CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.
- HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED (7) TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.
- WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR (8) TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.
- THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE CITY OF LAKELAND IMMEDIATELY.

SPECIES

- (10) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA
- (11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE LOCAL U.S. FISH & WILDLIFE SERVICE OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).
- (12) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE ENGINEER

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(13)	THE C CONTI INSPE RESPO OR TH AND D
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(20)	SEDIM PLACE CONTA ADJAC

EROSION PREVENTION

(22) (23)

SHALL CONTACT THE LOCAL U.S. FISH & WILDLIFE SERVICE OFFICE PRIOR TO REMOVAL OF ANY TREES

INSPECTION. MAINTENANCE & REPAIR

CONSTRUCTION SUPERVISOR (OR THEIR DESIGNEE) AND THE FRACTOR'S RESPONSIBLE PARTY ARE RESPONSIBLE FOR CTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE ONSIBILITY OF THE CONTRACTOR. THE CONSTRUCTION SUPERVISOR HEIR DESIGNEE SHALL COMPLETE THE EPSC INSPECTION REPORTS DISTRIBUTE COPIES PER THE CONTRACT.

SULTANTS AND CONTRACTOR STAFF RESPONSIBLE FOR THE CTION. IMPLEMENTATION. MAINTENANCE. AND/OR REPAIR OF EPSC SURES SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 -DAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR STRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS JIRED TO MAINTAIN CERTIFICATION.

CONTROLS SHALL BE INSPECTED ACCORDING TO PERMIT IREMENTS TO VERIFY MEASURES HAVE BEEN INSTALLED AND FAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, FICATIONS, AND GOOD ENGINEERING PRACTICES, EPSC ECTIONS SHALL BE DOCUMENTED ON THE EPSC INSPECTION DRT.

HARGE POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC SURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING MENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING NATURAL URCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE TIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS L BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE ROADWAY MENT TRACKING.

CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE FECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS R THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE AIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE OUR TIMEFRAME, WRITTEN DOCUMENTATION SHALL BE PROVIDED IN FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, ACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED IN 24 HOURS AFTER IDENTIFICATION.

ECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES SHALL BE ORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM MENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL PONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE ECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.

EPSC PLAN SHALL BE UPDATED WHENEVER EPSC INSPECTIONS CATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC SURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY **/IIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING** GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM ER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.

MENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE ED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS FAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT SHALL BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL. C.Y.

(21) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.

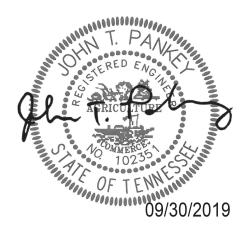
THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE RESPONSIBLE PARTY. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN.

- TEMPORARY STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR (24) DAYS WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT **RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION** MEASURES IN DISTURBED AREAS SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY PHASE OF CONSTRUCTION.
- STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT.
- PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING **OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC** MEASURES ON ALL PROJECTS.
- (27) TEMPORARY OR PERMANENT STABILIZATION MUST BE FREE OF FINES (SILT AND CLAY SIZED PARTICLES). UNPACKED GRAVEL CONTAINING FINES OR CRUSHER-RUN WILL NOT BE CONSIDERED SUFFICIENT STABILIZATION.
- (28) DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED.

PERMITS. PLANS & RECORDS

- (29) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE CITY OF LAKELAND PRIOR TO THE USE OF THE PERMITTED AREA(S).
- (30) ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF LAKELAND. THE CITY OF LAKELAND SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL
- IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION. (31) INCLUDING VALUE ENGINEERING, THE CITY OF LAKELAND SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE CITY OF LAKELAND SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.
- (32) THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE CITY OF LAKELAND TO COMMENCE PERMIT RENEWAL PROCESS.
- (33) ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE. THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.
- THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL (34) AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED, MODIFIED. AND UPDATED WHENEVER A CHANGE IN THE DESIGN OR CONSTRUCTION OF THE PROJECT OCCURS. THE STAGES DEPICTED IN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL PHASES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS PHASES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE PHASES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS WILL HAVE TO BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.



TYPE IYEARI PROJECT NO. 2C1 CONST. 2019 79LMLP-F3-554

> GENERAL NOTES

000	D HOUSEKEEPING MEASURES & WASTE DISPUSAL	JUP	PURIAC
(1)	THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.	(13)	MATERIA STATE/U. ENVIRON CONTRAG WORK AT WORK IS CONTRAG PERMIT F
(2)	THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL	(14)	IF OFFSIT THE LIFE ADDRESS
	LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.	(15)	MATERIA AREAS AI AGENCY
(3)	CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO	(16)	IT WILL B PLANS FO LAKELAN
	ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE	SPIL	L PREVE
	PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.	(17)	ALL ONSI REGULAF LEAKAGE
(4)	WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.	(18)	FOR ALL RECOMM POSTED. AND THE
(5)	IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.	(19)	APPROPF MAINTAIN ONSITE A INSPECTI REPLACE
(6)	ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S	(20)	ALL SPILI MATERIA WELL VEI PROTECT HAZARDO
	RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.	(21)	THE CON PREVENT RESPONS APPROPE
(7)	WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.	(22)	IF AN OIL PONDS, E
(8)	ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.		IMMEDIA CONTRAC ABSORB IDENTIFIE FURTHEF
(9)	ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY	(23)	FERTILIZI APPLIED, EXPOSUF
	SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.	(24)	IF A SPILI RESPONS REPORTI
(10)	OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL		REPORTE TAKEN IM STATE/U.
(11)	APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING. DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO	(25)	WHERE A AMOUNT ESTABLIS A 24 HOU
(12)	MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.		TNR10000 SECTION
(12)	WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.	(26)	CONTRAC OR ADJAC WITH A C SECOND/ FOR PRE (SPCC) PL OBTAININ SPCC PL/ PROVIDE ON SITE.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

SUPPORT ACTIVITIES

ERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE 'E/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY RONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE TRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT K AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF K IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE TRACTOR SHALL CONTACT THE CITY OF LAKELAND TO COMMENCE MIT RENEWAL PROCESS.

FSITE BORROW AND WASTE AREAS BECOME NECESSARY DURING LIFE OF THE PROJECT, THIS SUPPORT ACTIVITY SHALL BE RESSED PER THE TDOT WASTE AND BORROW MANUAL.

ERIALS AND STAGING AREAS SHALL BE LOCATED IN NON-WETLAND AS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT NCY FLOODPLAIN.

LL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY EPSC IS FOR THE MATERIAL AND STAGING AREAS TO THE CITY OF LAND FOR REVIEW.

EVENTION, MANAGEMENT & NOTIFICATION

DNSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE JLAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF AGE AND SPILLS.

ALL HAZARDOUS MATERIALS STORED ONSITE, THE MANUFACTURER'S OMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY FED. SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

ROPRIATE CLEANUP MATERIALS AND EQUIPMENT SHALL BE TAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA TE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE ECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO ACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE ERIALS DISPOSED OF PROPERLY. THE SPILL AREA SHALL BE KEPT - VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE FECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A ARDOUS SUBSTANCE.

CONTRACTOR'S RESPONSIBLE PARTY SHALL BE THE SPILL (ENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS PONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD ROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL AGEMENT, AND CLEANUP.

OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING OS, DETENTION PONDS, SWALES), ACTION SHALL BE TAKEN DIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE TRACTOR SHALL USE APPROPRIATE MATERIALS TO CONTAIN AND ORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE TIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT THER RELEASES.

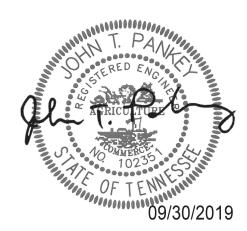
ILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED. ONCE IED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE SURE TO STORMWATER.

SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE PONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR ORTING THE SPILL TO THE CITY OF LAKELAND. ALL SPILLS MUST BE ORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE IN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE TE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

RE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN JNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY ABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING HOUR PERIOD, SEE THE LATEST TENNESSEE GENERAL PERMIT NO. 00000 STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES TION 5.1 FOR REPORTING REQUIREMENTS.

CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ONSITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE CONTAINERS WITH A COMBINED CAPACITY OF 1320 GALLONS OR MORE SHALL HAVE SECONDARY CONTAINMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN FOR THE BULK STORAGE AND BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ONSITE AND A COPY PROVIDED TO THE CITY OF LAKELAND PRIOR TO STORING 1320 GALLONS ON SITE.

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SPECIAL NOTE

MULTIMODAL

(1) DURING CONSTRUCTION, IF THE CONSTRUCTION SUPERVISOR IDENTIFIES CURB RAMP LOCATIONS WITHIN THE PROJECT LIMITS WHERE THE TDOT ROADWAY STANDARDS CANNOT BE USED DUE TO SITE LIMITATIONS, A SKETCH OR PICTURE, SHOWING EXISTING CONDITIONS AS WELL AS PROPOSED MODIFICATIONS SHOULD BE SUBMITTED TO THE REGIONAL PROJECT DEVELOPMENT OFFICE THREE WEEKS PRIOR TO THE BEGINNING OF CURB RAMP CONSTRUCTION. THE OFFICE WILL REVIEW AND EVALUATE THE LOCATIONS TO DEVELOP PROPER CURB RAMP DESIGN THAT WILL MEET REGULATIONS.

EROSION PREVENTION AND SEDIMENT CONTROL

ENVIRONMENTAL

(1) STAFF FROM THE CITY OF LAKELAND SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

PROJECT COMMITMENTS

(2) SEE PROJECT COMMITMENTS, SHEET 1B, FOR DETAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT.

STREAMS, WETLANDS & BUFFER ZONES

- (3) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION.
- (4) A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES.
- (5) BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND MUST NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE CITY OF LAKELAND SHALL REVIEW AND APPROVE THIS REVISION OF THE EPSC PLANS BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

SCOPE OF WORK

THIS PROJECT INVOLVES THE CONSTRUCTION OF APPROX. 1,020 L.F. OF CONCRETE TRAIL AND 600 L.F. OF ASPHALT TRAIL PAVEMENT, INCLUDING OTHER SIDEWALK IMPROVEMENTS, RETAINING WALL CONSTRUCTION, ADA UPGRADES, CROSSWALKS, STRIPING, SIGNAGE, LIGHTING, CLEARING AND GRADING, LANDSCAPE, ENTRY FEATURE SIGNS, AND OTHER RELATED WORK AS SHOWN ON THE PLA

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			•





PAVEMENT QUANTITIES											
	PAY ITEMS										
LOCATION	303-01 307-01.08 402-02		403-01	411-01.07							
	(TON)	(TON)	(TON)	(TON)	(TON)						
SHARED-USE PATH	319.0	92.0	3.0	0.3	43.0						
TOTALS	319.0	92.0	3.0	0.3	43.0						

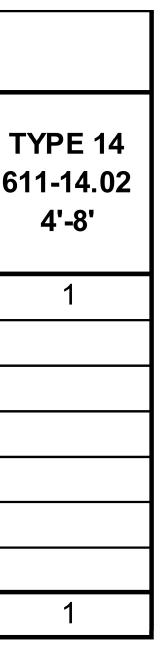
				CATC	H BASINS						PAY ITEMS	
SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSION	DEPTH (FT.)	STANDARD DRAWINGS	TYPE 12 611-12.01 0'-4'	TYPE 12 611-12.02 4'-8'	Т` 61
4B	CANADA RD	191+08.43	42.00	CB 1	362.58	14S	96" X 36"	5.33	D-CB-14S			
4B	CANADA RD	191+46.15	-42.00	CB 2	362.15	12S	48" X 36"	3.00	*	1		
4B	CANADA RD	191+75.15	-42.00	CB 2A	362.14	12S	48" X 36"	3.09	*	1		
4B	CANADA RD	192+08.38	42.00	CB 3	362.55	12S	48" X 36"	4.45	D-CB-12S		1	
4B	CANADA RD	193+04.72	42.00	CB 4	363.37	12S	48" X 36"	4.45	D-CB-12S		1	
4B	CANADA RD	193+87.42	-42.00	CB 5	364.97	12S	48" X 36"	3.90	D-CB-12S	1		
4B	CANADA RD	195+42.72	-42.00	CB 6	369.32	12S	48" X 36"	3.90	D-CB-12S	1		
			-	-					TOTAL	4	2	

SEE DETAIL SHEET # 2F7 (TDOT STANDARD DRAWING D-CB-12B MODIFIED) *

	FR	OM	Т	0		REINFORCED COM	NC. PIPE - CLASS
SHEET					%	SIZE & LE	NGTH (L.F.)
NO.	CODE	OUTLET	CODE	INLET	GRADE	18"	24"
		ELEV.		ELEV.			
4B	CB 1	357.25	EW 1	357.00	1.00		25
4B	CB 2	359.15	CB 2A	359.05	0.40	25	
4B	CB 2A	359.05	EW 2	358.98	0.30	22	
4B	CB 3	358.10	CB 1	357.25	0.85		101
4B	CB 4	358.92	CB 3	358.10	0.85		97
4B	EX CB	363.70	CB 4	359.02	1.94		242
4B	CB 5	361.07	EW 3	360.80	1.08	25	
4B	CB 6	365.42	CB 5	361.17	2.82	151	
TOTALS	5					223	465

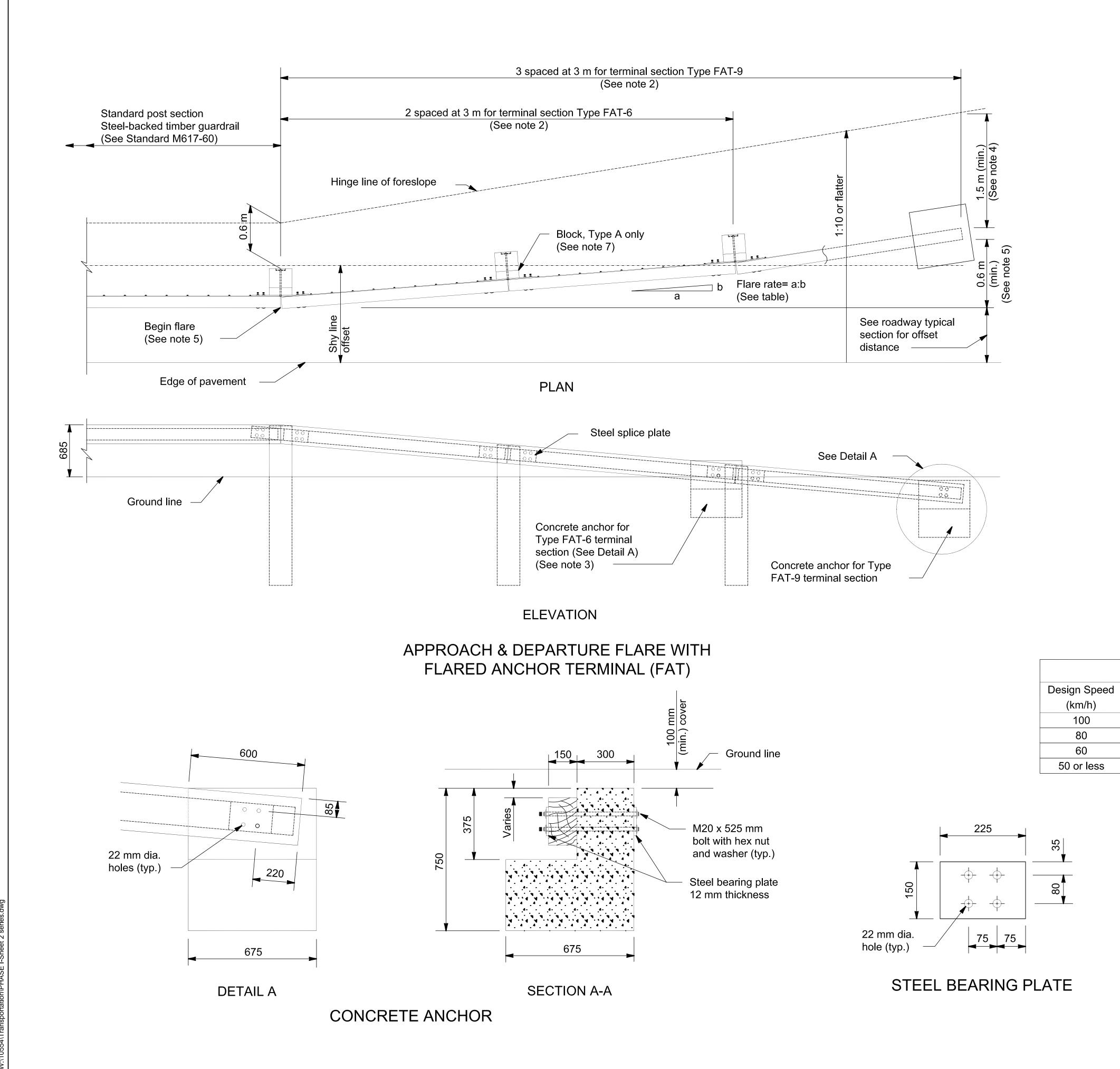
				STORM	I DRAIN	AGE END	WALLS		
E - CLASS III (L.F.) 24"	SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	STANDARD DRAWING	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)
25	4B	CANADA RD.	191+08.93	68.93' RT	EW 1	24" 3:1	D-PE-24A, D-PE-24B	1.28	124
	4B	CANADA RD.	191+75.10	62.40' LT	EW 2	18" 3:1	D-PE-18A, D-PE-18B	0.87	79
	4B	CANADA RD.	193+75.16	62.86' LT	EW 3	18" 3:1	D-PE-18A, D-PE-18B	0.87	79
101									
97	TOTAL	S		•				3.02	282
242								·	
									TABUL

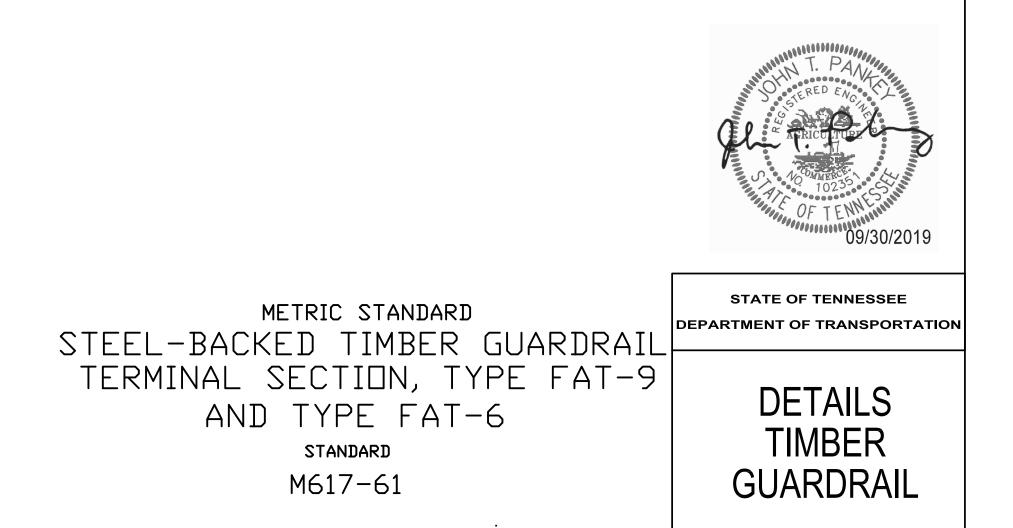
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TABULATED QUANTITIES





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NOTE:

- 1. Dimensions not labeled are in millimeters.
- 2. Use 9 m long Type FAT-9 (Flared Anchor Terminal) terminal section or the 6 m long Type FAT-6 (Flared Anchor Terminal) terminal section as specified.
- 3. For the Type FAT-6 terminal section, the third rail on the Type FAT-9 terminal section is deleted and the concrete anchor is relocated to the end of the second rail. See Standard M204-1, Earth berm for Roadside Barrier Terminal Sections, for construction of the earth berm.
- 4. For the Type FAT-9 terminal section, extend the fill widening a minimum of 1.5 m behind the guardrail, unless otherwise directed by the CO.
- 5. The guardrail flare shown in the plan view is the minimum length and rate required. As directed by the CO, flare the guardrail so that the terminal section is outside the clear zone. If the terminal section cannot be located outside the clear zone, it should be flared as far as practical from the road at the maximum rate indicated on the Guardrail Flare Rates table.
- 6. See Standard M617-60, Steel-Backed Timber Guardrail, Type SBTA and SBTB, for timber, structural steel, and hardware details.
- 7. On the Type A, blocked-out guardrail, include the blocks in terminal section, except on the concrete anchor. For the Type B, non-blocked-out guardrail, no blocks are included.
- 8. Funish hardware in the metric sizes shown. Equivalent imperial sizes may be used when metric sizes are not available.

GUARDRAIL FLARE RATE TABLE

(km/h)

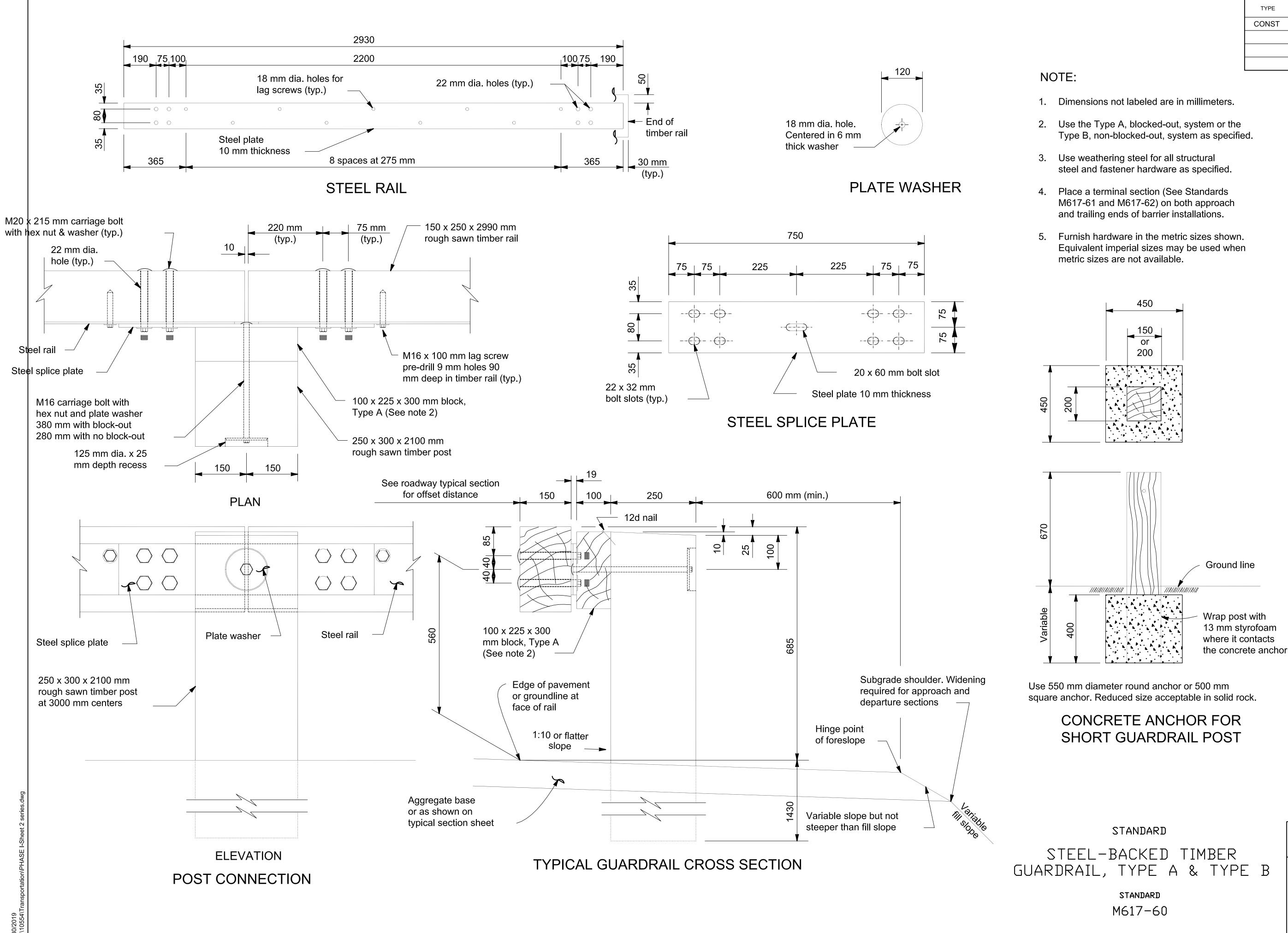
100

80

60

50 or less

Shy line offset	Flare rate	Flare rate
(m)	inside shy line (a:b)	outside shy line (a:b)
2.5	26:1	13:1
2.0	21:1	11:1
1.5	17:1	9:1
1.0	13:1	7:1

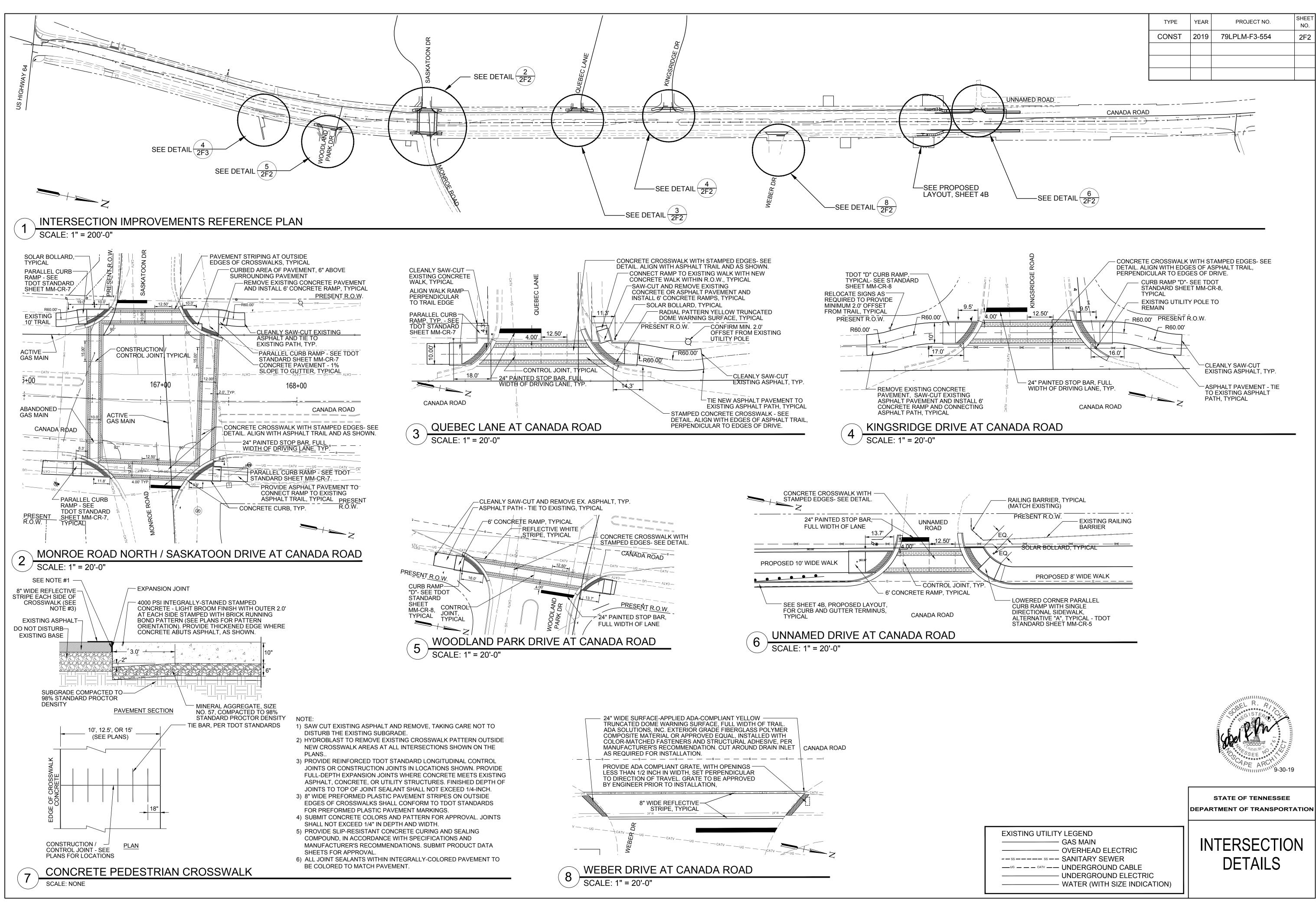


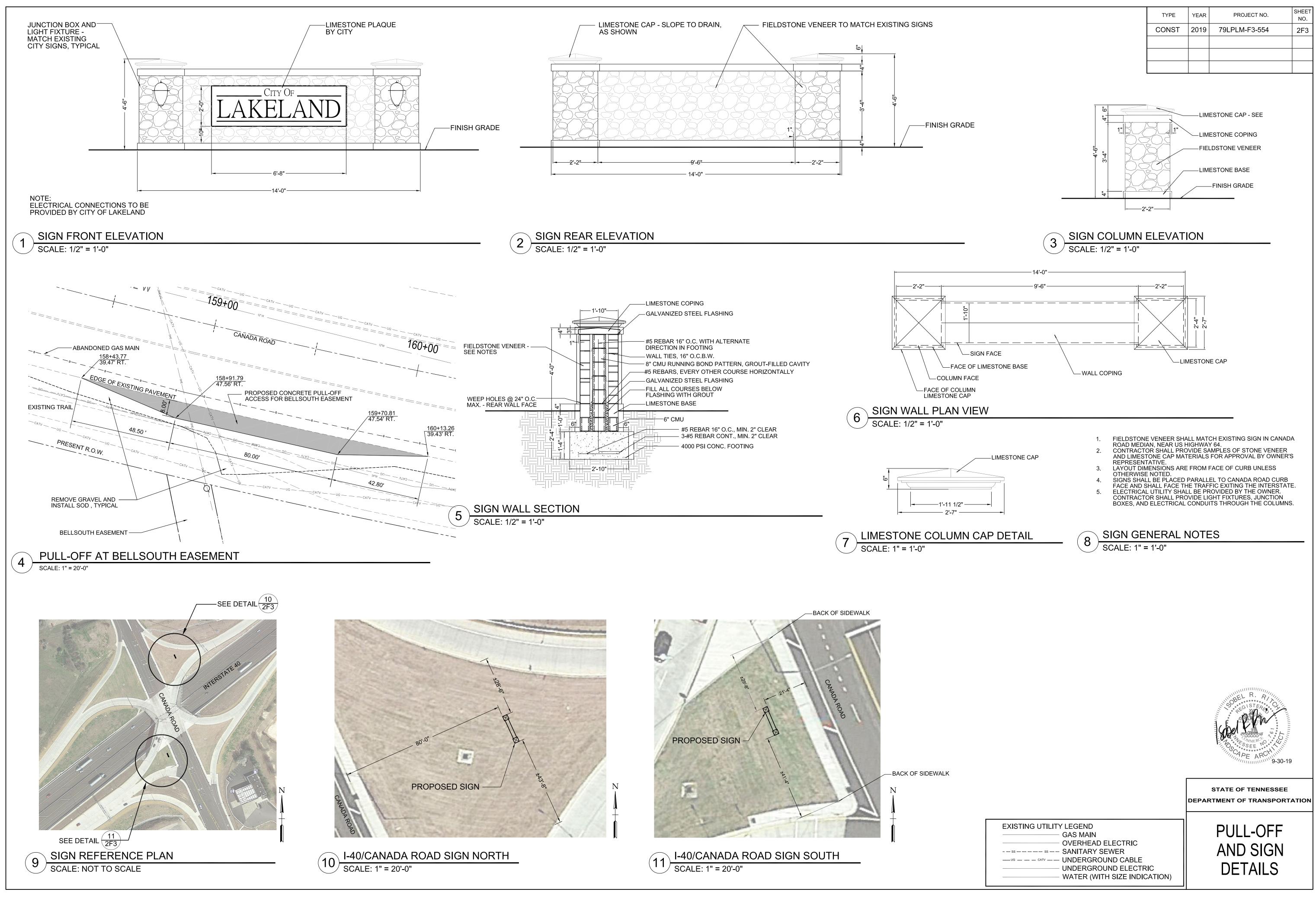
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2019	79LPLM-F3-554	2F1

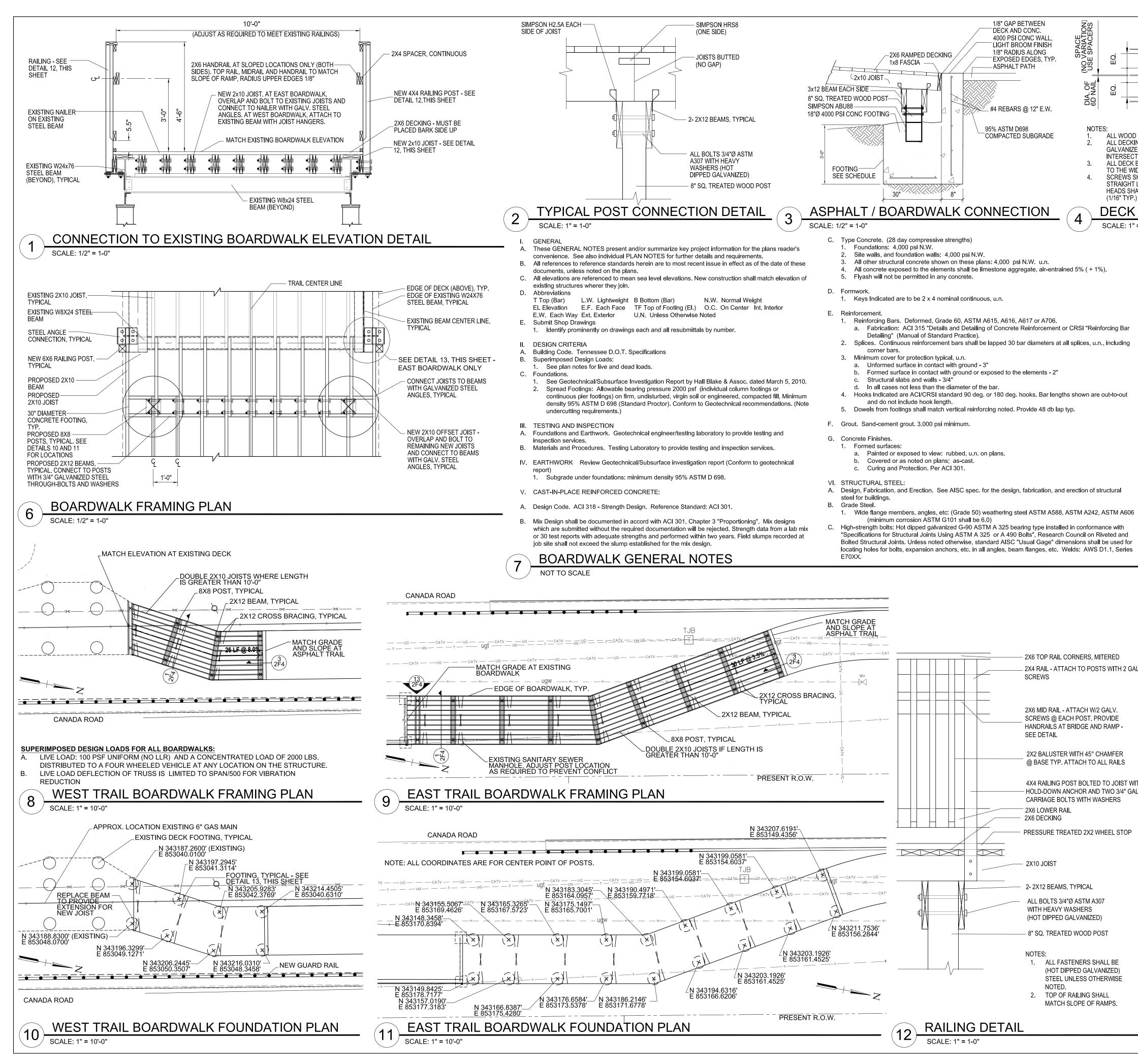




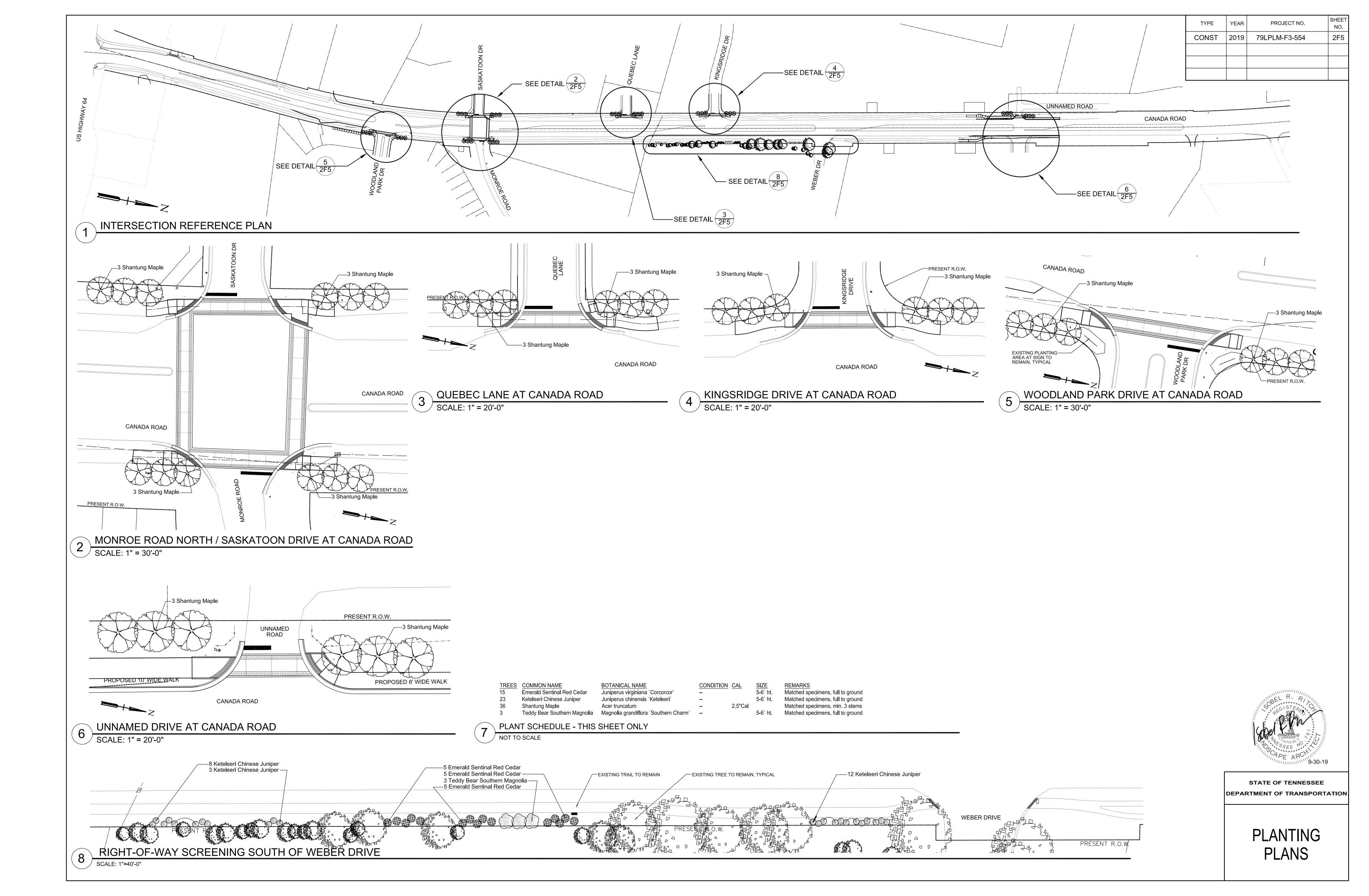
STATE OF TENNESSEE **DEPARTMENT OF TRANSPORTATION**

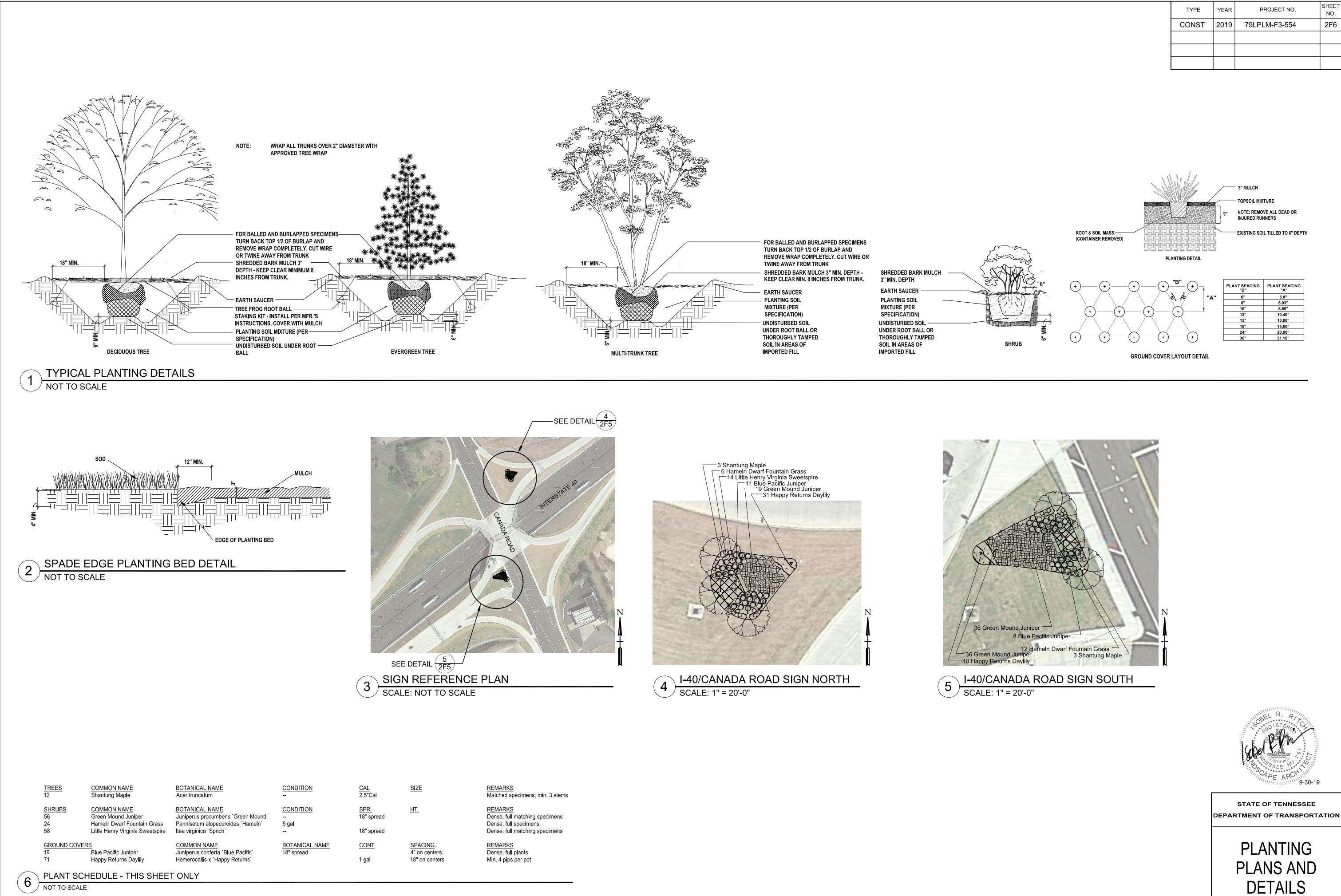


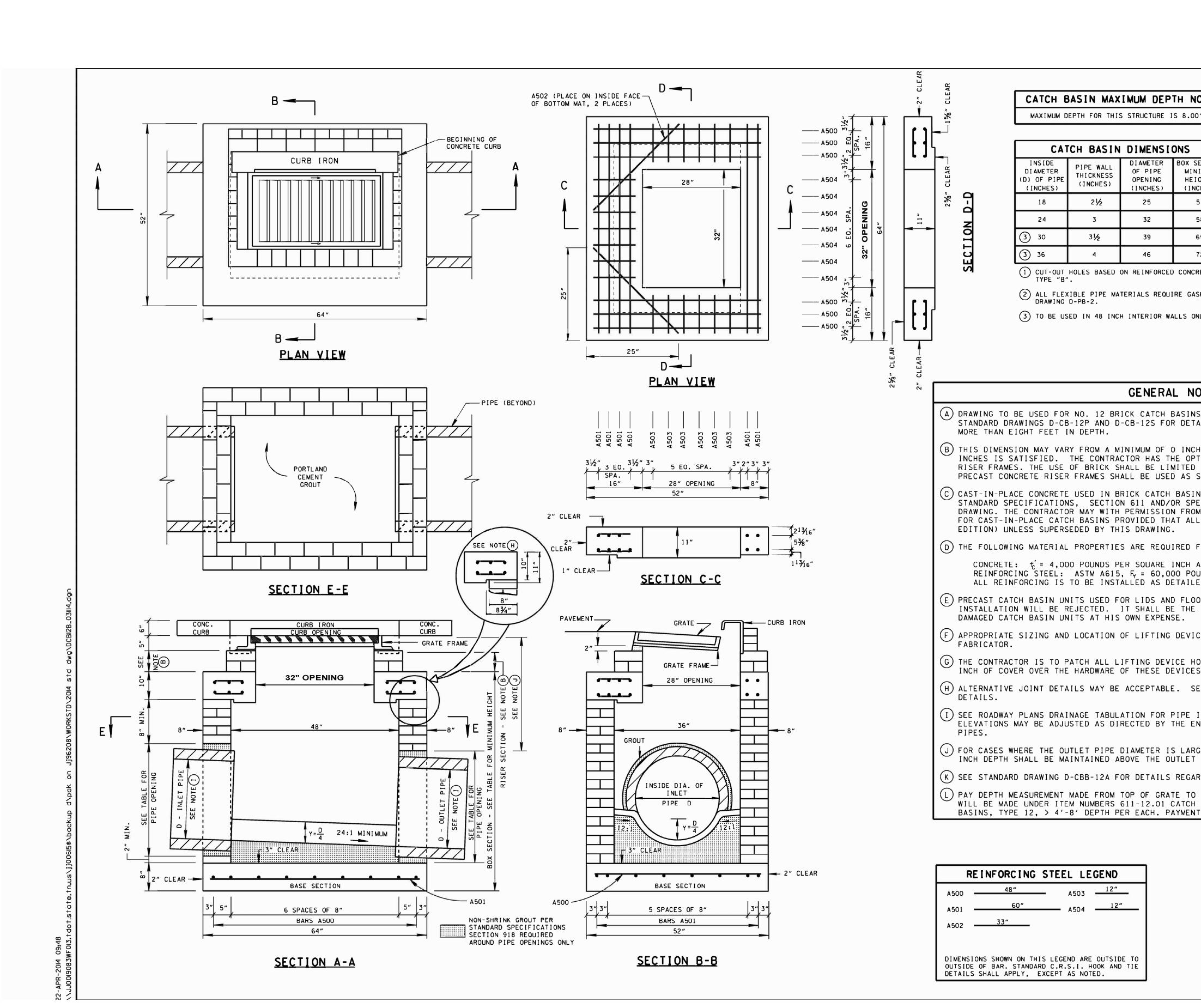




	TYPE	YEAR	PROJECT NO.	SHEET NO.
	CONST	2019	79LPLM-F3-554	2F4
4000 00	(UNREINFORCED) I CONC. FOOTING			
G SCREWS & JOIST 4000 PSI	<u>Alan</u>		FINISH GRAD	DE
NG MUST BE SCREWED DOWN TO JOISTS W/ 3" ED DECK SCREWS. (2 SCREWS PER JOIST				
TION-SEE DETAIL) BOARDS MUST BE BARK SIDE UP WITH A GAP EQUAL				
IDTH OF A 6d NAIL. SHALL BE CENTERED IN JOISTS BELOW & IN LINES AS SHOWN. TOP OF COUNTERSUNK SCREW	 	Δ_{a}		•
ALL BE A CONSISTENT DEPTH BELOW TOP OF DECK		, 30" DI	AMETER 95% ASTM D69 COMPACTED SUBGRADE	8
		DFT		
	_E: 1/2" = 1-0"			_
D. Tolerances. AISC Code of Standard Practice 1992, Section 6.4 & 7.11				
E. Camber. Provide positive camber as noted on plans. Where no camber iF. Shop Drawings. Submit shop drawings.	s noted, residual	mill camb	er is to be upwards.	
VII. WOOD FRAMING NOTES				
 A. STRUCTURAL WOOD FRAMING 1. Design Standard: National Design Specification 2015, and Supplement 	ents.			
 Sawn Lumber: All sawn lumber to be Southern Yellow Pine, No. 2 KD or better, 	, u.n. (19% moistu	ire contei	nt max.)	
b. All wood members shall be pressure treated.c. No bowed or warped members shall be used.		0		
 d. Substructure members (wood columns, headers, and bracing) m e. All pressure treated members shall be treated in accordance wit (0, 40 powerds (achie fact pressure treated in accordance with a second pressure). Stain and pressure treated in accordance with a second pressure treated pr	th the following: A	CQ-D tre	ated for ground contact	
(0.40 pounds/cubic foot preservation retention). Stain and sealar by owner, one year following installation.	nt snall be applied	a on deck	ing and railing members	
 Connections: a. Nailed connections. All nailing shall comply with IBC. Nailing at recommendations. All nails common wire gauge, u.n. Power dri 				
plan. b. Connection hardware to be by Simpson Strong-Tie Company, In			-	
plans, hardware designated represents connection details conte to develop connected member capacity. Submit shop drawing, to	mplated in design	n. Connec	ction hardware, in general,	
proposed for use. All hardware shall have Zmax hot dipped galv A153 & A653)				
 Powder actuated fasteners (Hilti, Ramset, Redhead, etc.) subject technical data. 	ct to A/E approval	. Submit	proposed use and	
 Erection/Construction Phase Stability: a. Member design stability. Studs, joists, etc. typically are designed 	d for design loads	noted ar	ticipating lateral support	
from wall sheathing, floor and roof decking, etc. Contractor shal loading members or consider and provide, if necessary, suitable	Il provide sheathir	ng, deckir	ng, etc. noted prior to	
 Frame stability. Building frames typically are designed for gener dependent upon permanent bracing which has not been constru 	cted until later in	the const		
provide temporary bracing to resist all construction phase loadin	g, including wind.			
VIII. TEMPORARY BRACING OF STRUCTURE A. Contractor shall provide temporary bracing as required until all lateral forc	e resisting eleme	nts are in	place.	
IX. EXISTING CONSTRUCTION AND EXISTING UTILITIES.				
A. Contractor is to verify existing conditions noted on contract documents (di coordinate same in all affected shop drawings prior to submittal.		ons, cons	struction, etc.) and to	
 B. Report any existing conditions not as indicated on the contract documents C. The contractor is encouraged to inspect the premises and review available 				
plans and shop drawings of existing construction if available.				
0				
	X4 RAILING POST OIST - SEE DETAI			
2X6 DECK		- EXIST.		
			WOOD NAILER /4" CLIP ANGLE X 8"	
		LONG (2X10 J(DN EACH SIDE OF DIST - 2 REQUIRED	
JOIST TO BE		AT EAC 3/4" BO	CH LOCATION (USE LTS)	
LEVEL WITH TOP OF EXISTING NLV. NAILER ON		8"v10"v	3/4" ANGLE x 8"	
W8x24 BEAM		LONG \	VITH 8x8x3/8" NER, WELDED TO	
W8x24 BEAM (BEYOND)			STEEL BEAM	
		-EXISTIN BEAM	NG W24x76 STEEL	
ELEVATION				
EXISTING W24x76	I			
STEEL BEAM 2X10 JOIST			/4" CLIP ANGLE X 8" TYPICAL	
			1/4	
			1/4	
			NATE JOIST AT	
			DF 8"x10"ANGLE	
BOLTED TO 2X10 JOIST - SEE <u>PLAN</u> DETAIL 12, THIS SHEET. <u>PLAN</u>		LONG V	3/4" ANGLE x 8" VITH 8x8x3/8" NER (BELOW)	
NOTE:		SHFFE	NER (BELOW)	
CONTRACTOR SHALL SUBMIT SHOP DRAWING SHO	WING CONNECTIO	on and e	ETAILS OF ANGLES	
13 JOIST CONNECTION AT EX	KISTING	EAS	ST BOARDWALK	
SCALE: 1/2" = 1-0"				
	Г			
			STATE OF TENNESSEE	
IN P. AR)	DEPAF	RTMENT OF TRANSPORT	ATION
WING FERED FN	in the second			
	AL			
AGRICULTURE	ZOIE	F	BOARDWALK	
A CONTROL OF	H. H			
OF TENNY	IIII		DETAILS	







		TYPE	YEAR	PROJECT NO.	SHEET NO.
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	REV. 1-19-96: MODIFIED DRAWIN				
NOTE	D-CB-12S BY CHANGING MATERIAL WALLS FROM CONCRETE TO BRICK.				
001.	■ REV. 12-18-96: REMOVED 0.5" F FIBER EXPANSION JOINT FROM SEC "B-B". REMOVED OLD GENERAL NO	TION			
FOR DESIGN	CHANGED LABEL OF LAST THREE GE				
USE ONLY SECTION CATCH BASIN	REV.4-15-97: CHANGED LABEL OF SECTION.	BASE			
NIMUM MINIMUM LIGHTS DESIGN DEPTH NCHES) (FEET)	REV. 10-26-97: CHANGED MINIMU TABLE AND MODIFIED STEEL IN BA SECTION.				
51 3.88	REV. 1-19-99: MODIFIED CATCH MINIMUM DEPTH TABLE.	BASIN			
58 4.42 65 4.96	REV. 5-27-01: CHANGED PAY ITE GENERAL NOTE (I)	IN IN			
72 5.50	REV. 7-29-02: CHANGED ASTM SPECIFICATION IN GENERAL NOTE				
CRETE PIPE WITH WALL	REV. 8-01-12: REVISED CATCH E	BASIN TOP &			
ASKET. SEE STANDARD	LRFD BRIDGE DESIGN SPECIFICATI EDITION WITH INTERIMS. REVISE	ONS, 4TH D			
ONLY.	REINFORCING, GENERAL NOTES, LE ADDITIONAL MISC. DRAFTING EDIT	s.			
	REV. 9-24-12: MODIFIED TOP S AND MINIMUM DEPTH.				
	REV. 3-11-14: ELIMINATED STI	RRUPS.			
NOTES					
	EET AND LESS IN DEPTH. SEE				
	CRETE CATCH BASINS THAT ARE				
	F 24 INCHES AS LONG AS 23 K OR STANDARD PRECAST CONCRE	TF			
	HIS DIMENSION EXCEEDS 6 INCH				
	UCTED IN ACCORDANCE WITH NLESS SUPERSEDED BY THIS				
OM THE ENGINEER SUBS	STITUTE PRECAST CATCH BASINS MEET ASTM C913 (CURRENT				
FOR BOTH CAST-IN-PL	LACE AND PRECAST STRUCTURES:				
AT 28 DAYS					
OUNDS PER SQUARE ING					
	GED DURING SHIPMENT OR THE CONTRACTOR TO REPLACE				
ICES SHALL BE THE RE	ESPONSIBILITY OF THE				
	D PLACE A MINIMUM OF ONE (1)				
ES ON BOTH TOP AND E	BOTTOM SURFACES.				
SEE STANDARD DRAWING	G D-CB-99 FOR ADDITIONAL				
	LEVATIONS. IF NEEDED, INVERT O ACCOMMODATE INLET AND OUTL				
RGER THAN THE INIET	PIPE DIAMETER, A MINIMUM 23				
T PIPE.					
	ATES, FRAMES AND CURB INLETS TION. PAYMENT FOR CATCH BAS				
	0'-4' DEPTH AND 611-12.02 CA				
	MINOR REVISION				
	APPROVAL NOT REC	DUIRED.			
	STATE OF TENNE Department of trans				
	STANDAR	D			
	RECTANGUL BRICK NO.				
	CATCH BAS			STATE OF TENNESSE	
NOT T	TO SCALE 1-19-96 D-CI	B-12B			
	.		 		
				BRICK NO. 7	
				ATCH BAS	IIN

UTILITY NOTES

- 1. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- 2. UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- 3. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- 4. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- 5. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

UTILITY OWNERS

TELEPHONE: AT&T 315 E COLLEGE STREET JACKSON, TN 38301 CONTACT: COREY BARTHOLOMEW OFFICE PHONE: 615-986-3435 EMAIL: CB6521@ATT.COM

FIBER OPTIC: C-SPIRE/ TELEPAK 1015 HIGHLAND COLONY PKWY, SUITE 420 RIDGELAND, MS 39157 CONTACT: JAMIE COPELIN OFFICE PHONE: 601-355-1522 EMAIL: NOCC@CSPIRE.COM

FIBER OPTIC: COMCAST CABLE COMMUNICATIONS, LLC 1701 JOHN F KENNEDY BLVD. PHILADELPHIA, PA 19103 CONTACT: BRUCE HARRIS OFFICE PHONE: 215-665-1700 EMAIL: BRUCE.HARRIS@CABLE.COMCAST.COM

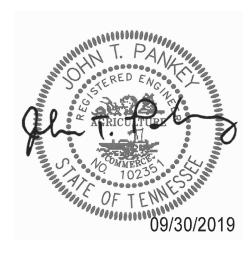
FIBER OPTIC: **VERIZON BUSINESS/ MCI** 2400 N. GLENVILLE DRIVE RICHARDSON, TX 75082 CONTACT: JOHN BACHELDER OFFICE PHONE: 972-729-6016 EMAIL: INCESTIGATIONS@VERIZON.COM

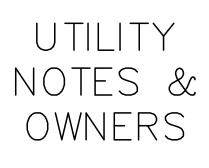
FIBER OPTIC: ZAYO GROUP 1805 29TH STREET. SUITE 2050 BOULDER, CO 80301 CONTACT: DAVID MATHEWS OFFICE PHONE: 901-579-0610 EMAIL: DAVE.MATHEWS@ZAYO.COM

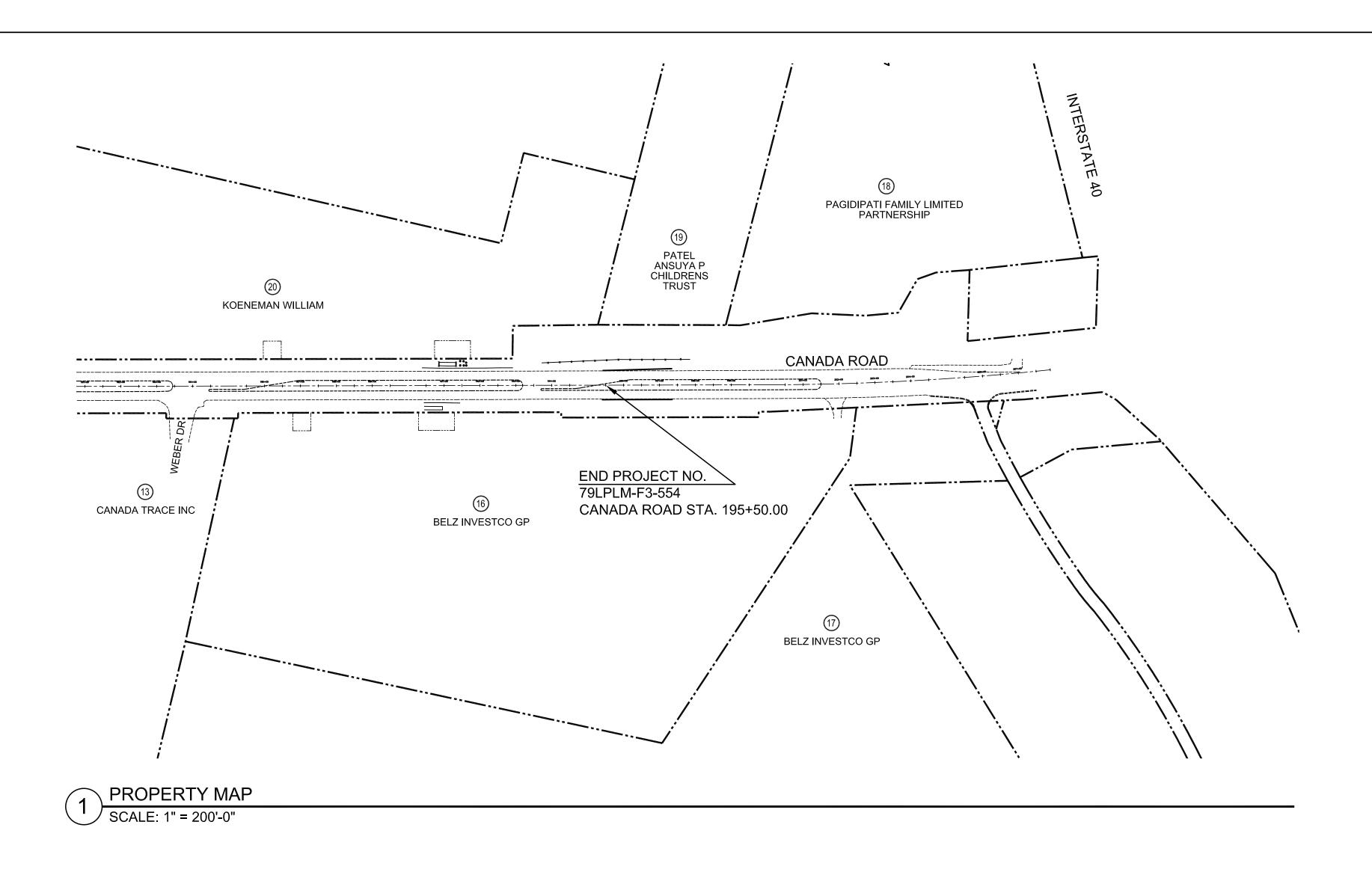
GAS, WATER & POWER: MEMPHIS LIGHT, GAS, WATER DIVISION 220 SOUTH MAIN STREET MEMPHIS, TN 38103 CONTACT: TOM WORD OFFICE PHONE: 901-528-4186 EMAIL: TWORD@MLGW.ORG

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	79LPLM-F3-554	3

SEWER: CITY OF LAKELAND 10001 HIGHWAY 70 LAKELAND, TN 38002 CONTACT: EMILY HARRELL OFFICE PHONE: 901-867-5418 EMAIL: EHARREL@LAKELANDTN.ORG





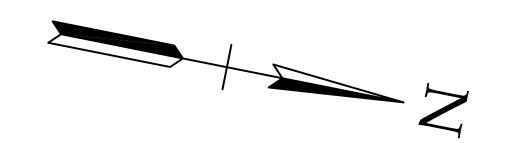


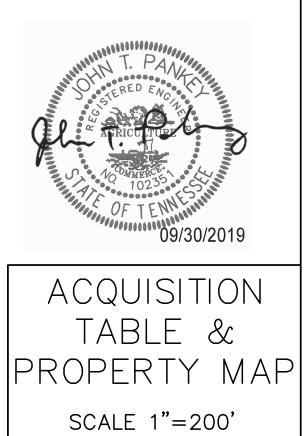
	R.O.W. ADJACENT PROPERTY OWNERS TABLE									
TRACT NO.	PROPERTY OWNER		COUNTY RECORDS							
		TAX MAP		DE	ED	TOTAL				
		NO.	PARCEL NO.	DOCU	MENT	AREA				
				BOOK	PAGE					
13	CANADA TRACE INC	980	L0159 00140			33.4				
14	C CUBED LAND INVESTORS	103B	L0159 00173			8.14				
15	C CUBED LAND INVESTORS	103B	L0159 00175			2.12				
16	BELZ INVESTCO GP	98	L0159 00139			26.66				
17	BELZ INVESTCO GP	98	L0159 00445			97.36				
18	PAGIDIPATI FAMILY LIMITED PARTNERSHIP	98	L0159 00124			14.86				
19	PATEL ANSUYA P CHILDRENS TRUST	98	L0159 00125			8.78				
20	KOENEMAN WILLIAM	980	L0159 00530			16.75				

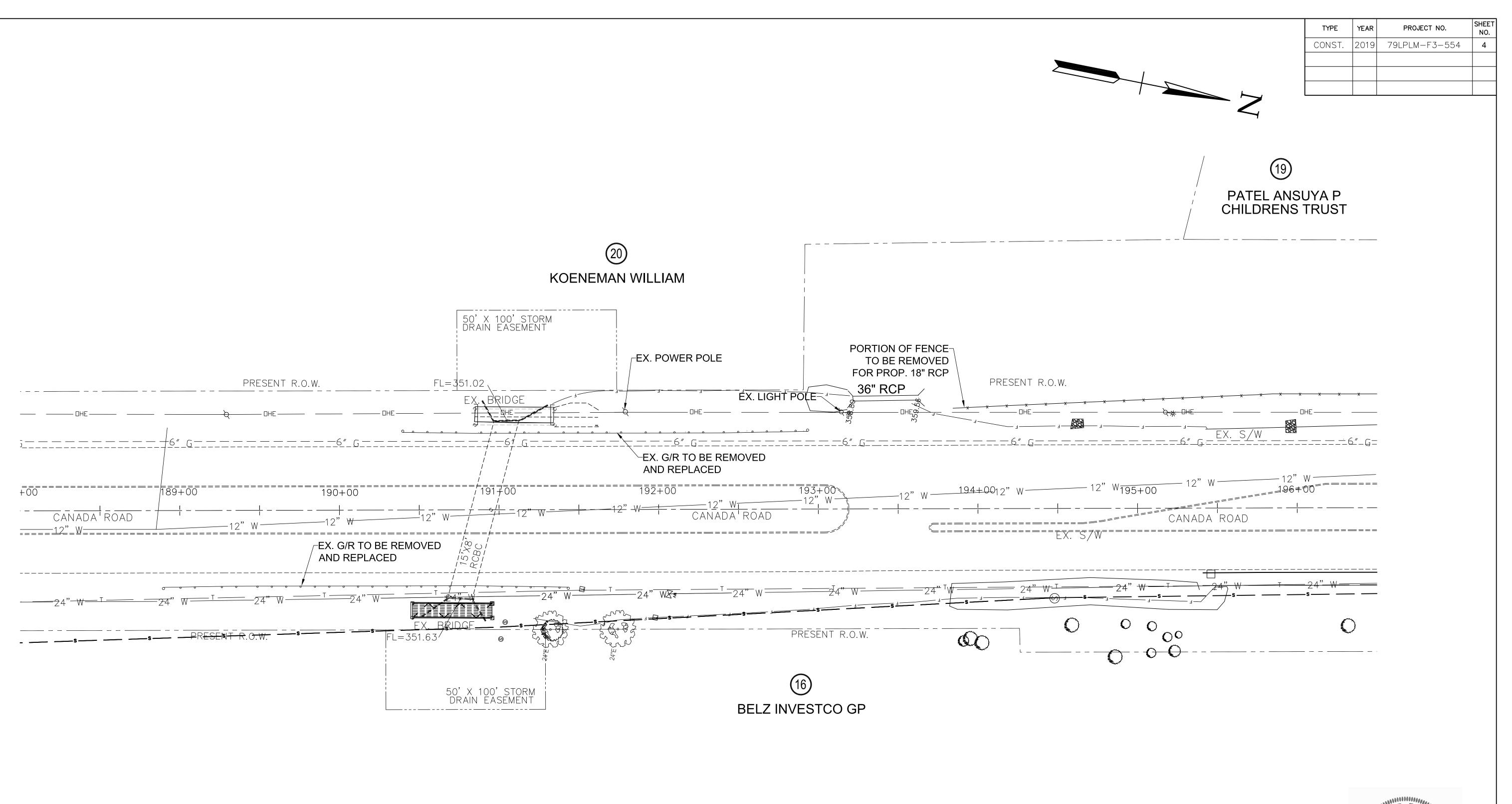
9/30/2019

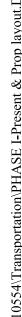
NO R.O.W. REQUIRED TOTAL DISTURBED AREA 0.53 (AC)

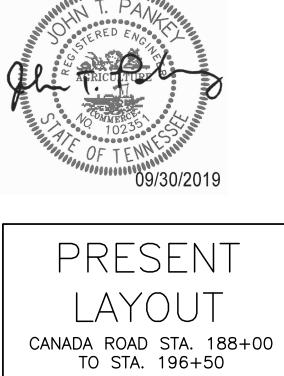
	TYPE	YEAR	PROJECT NO.	SHEET NO.
	CONST.	2019	79LPLM-F3-554	3A
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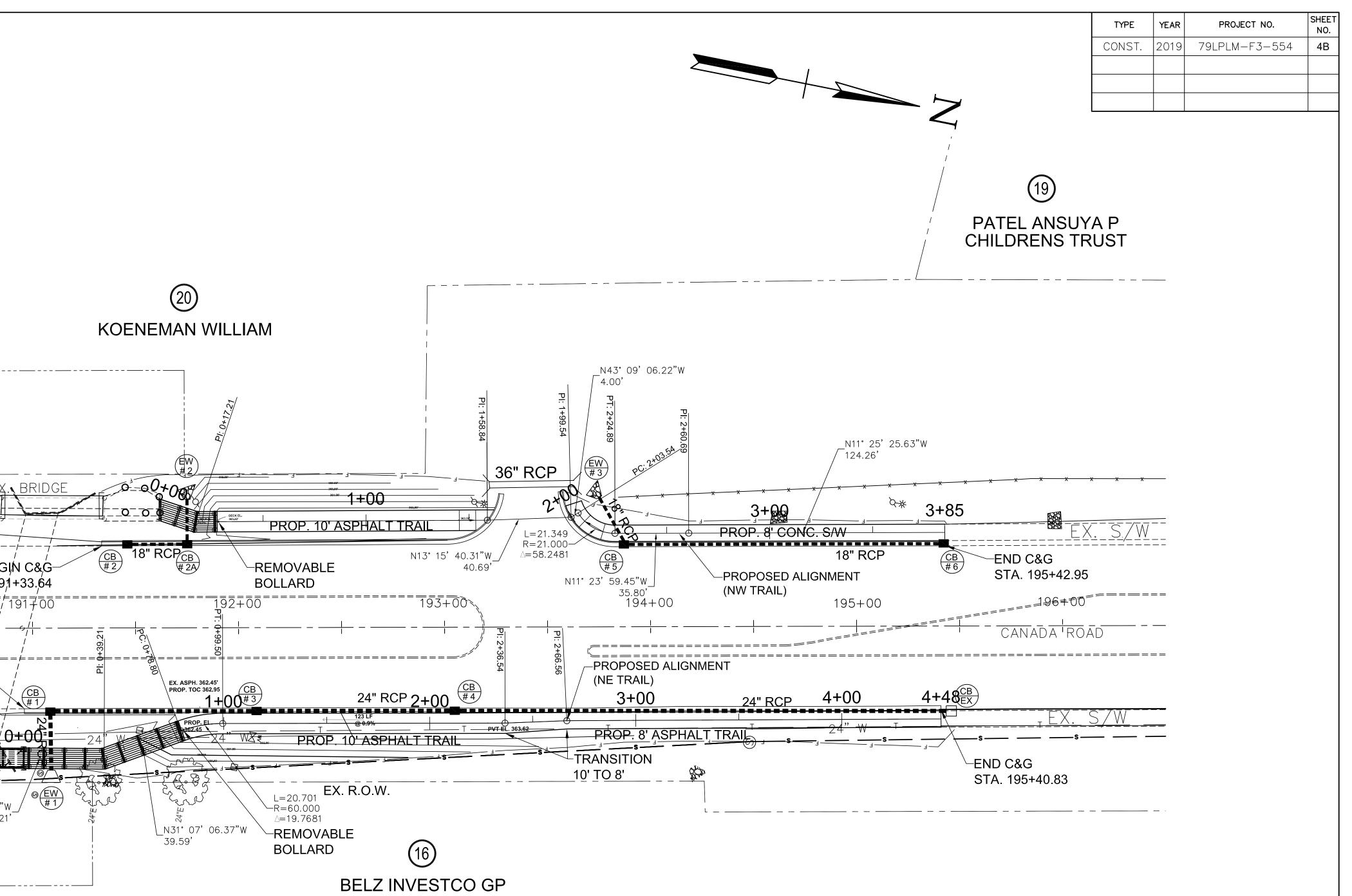


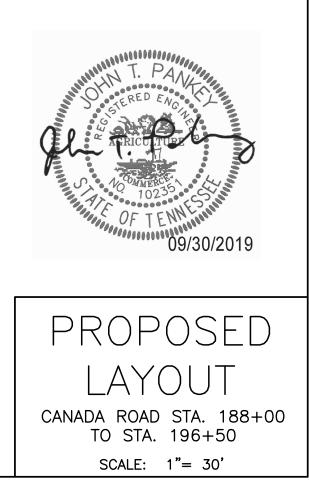


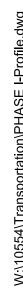
SCALE: 1"= 30'

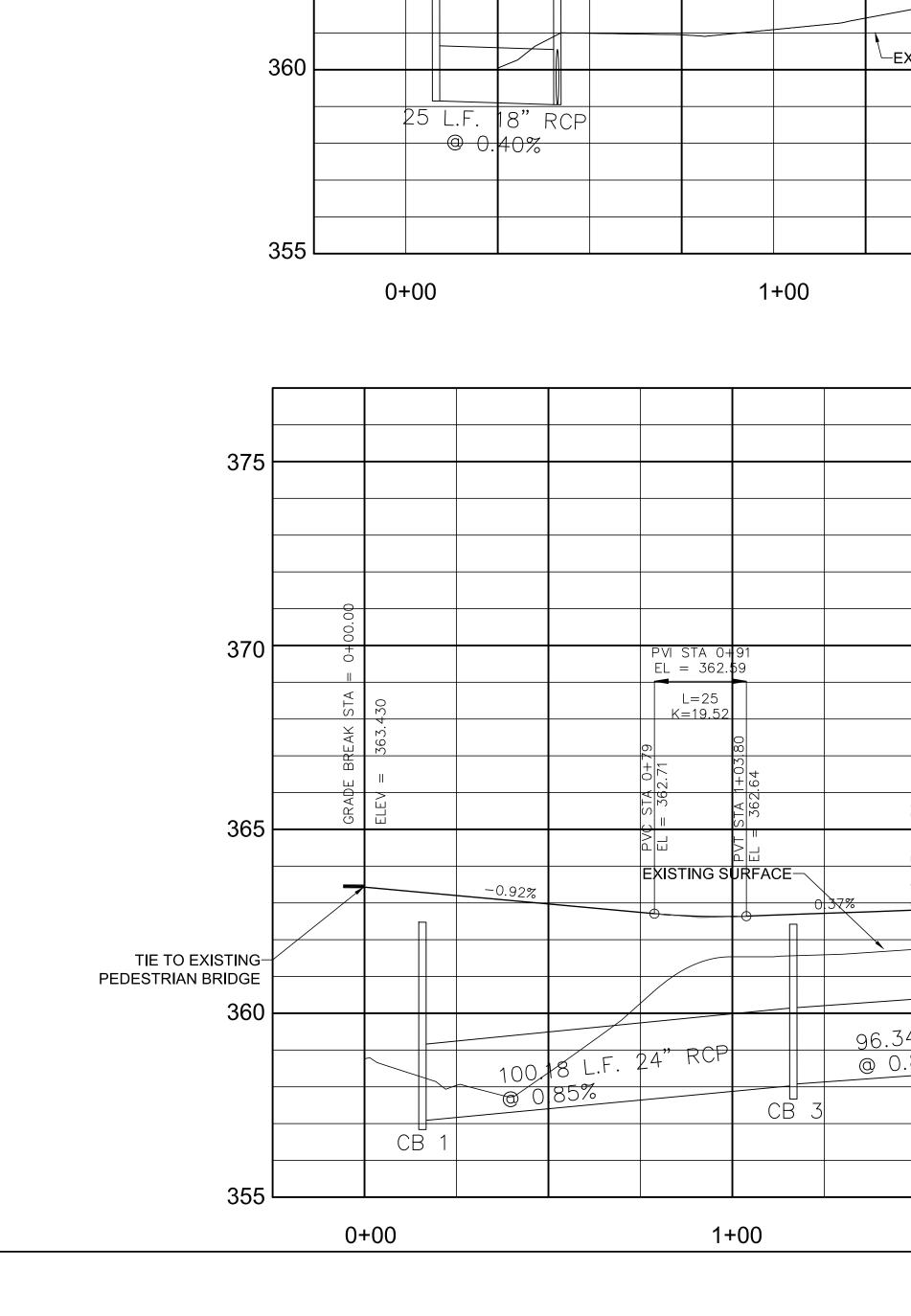
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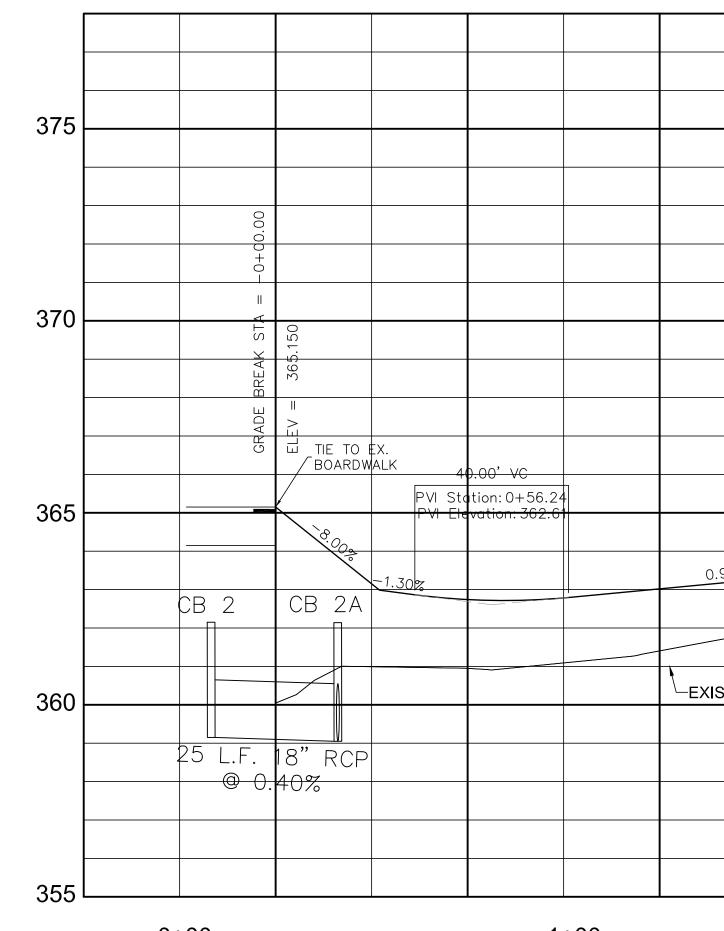
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TYPE	YEAR	PROJECT NO.	SHEET NO.
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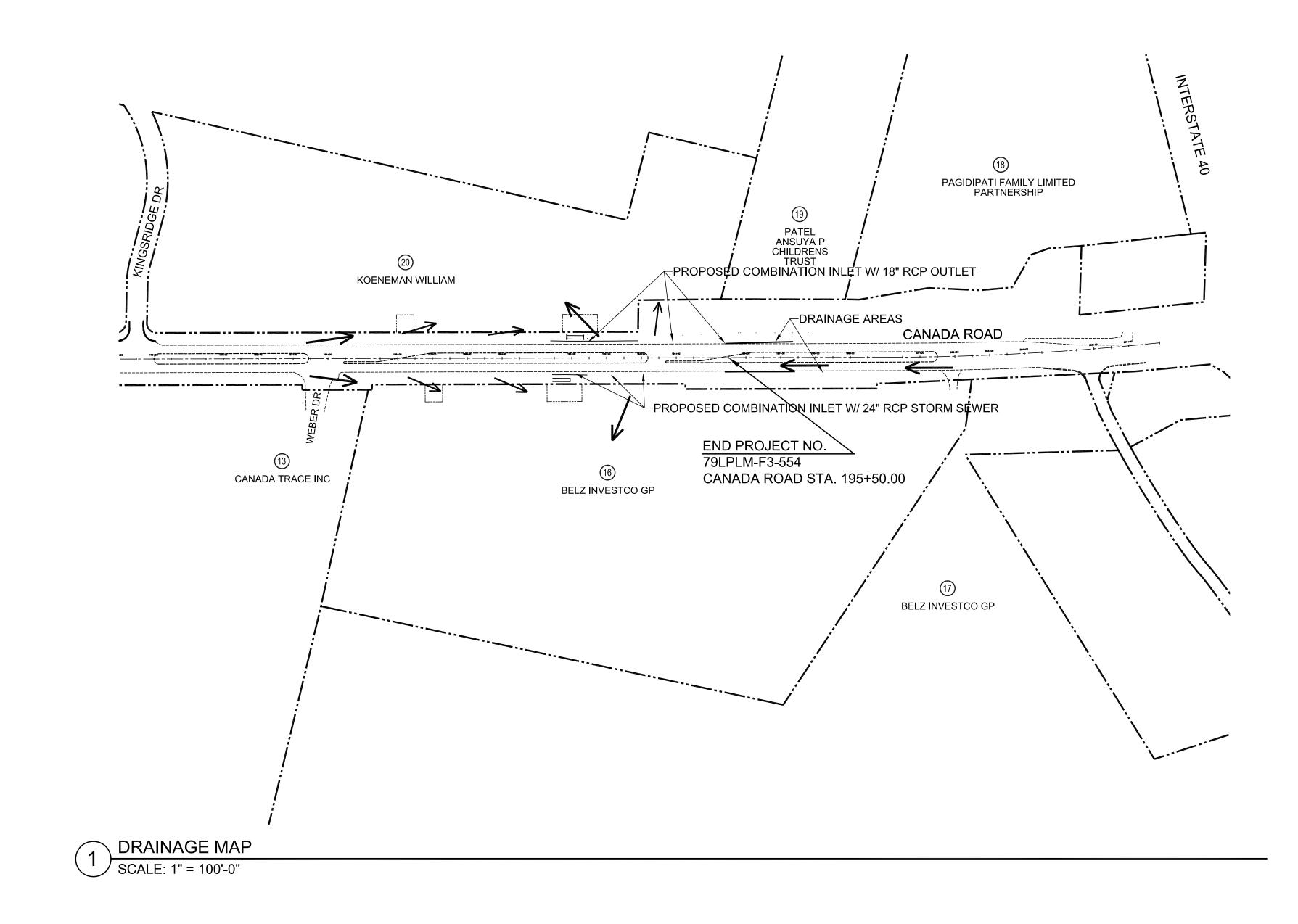
TIE TO EXISTING SIDEWALK

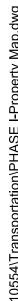
TIE TO EXISTING SIDEWALK



PROFILE: 1"=25' HORZ 1"=2.5' VERT

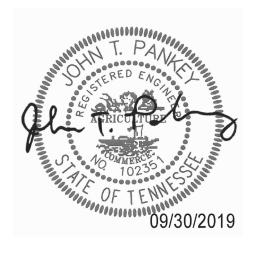






	TYPE	YEAR	PROJECT NO.	SHEET NO.
	CONST.	2019	79LPLM-F3-554	5
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DRAINAGE FLOW ARROW





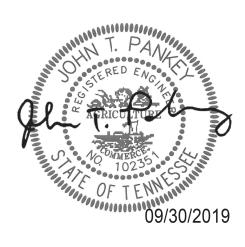
EPSC NOTES

ENVIRONMENTAL

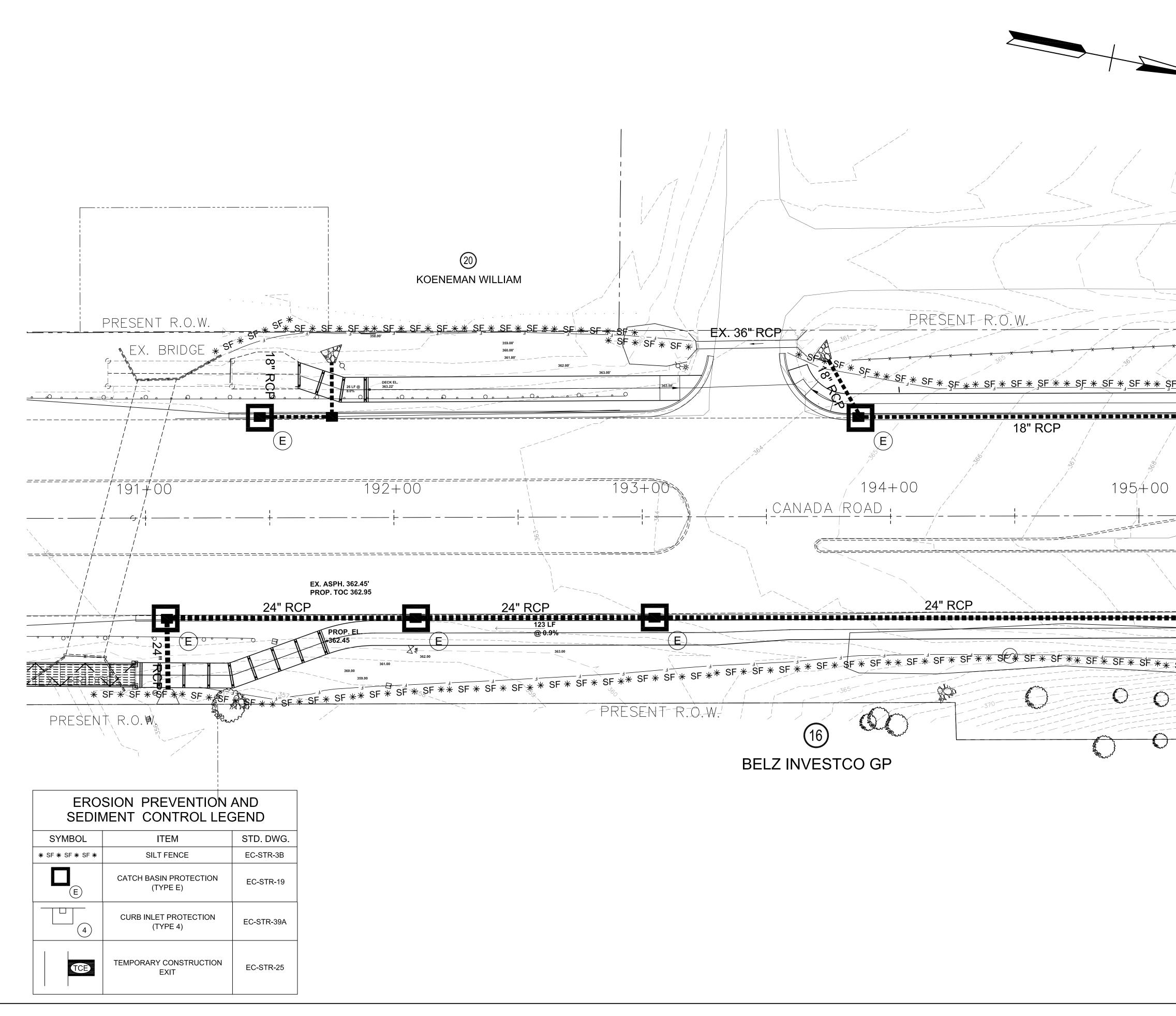
(1) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

	TABULATED EPSC QUANTITIES									
ITEM NO.	ITEM NO. DESCRIPTION									
203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	CY	8							
209-03.21	FILTER SOCK (12 INCH)	LF	50							
209-05	SEDIMENT REMOVAL	C.Y.	10							
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	900							
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	8							
209-40.34	CATCH BASIN PROTECTION (TYPE E)	EACH	6							
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	50							
740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	SY	86							

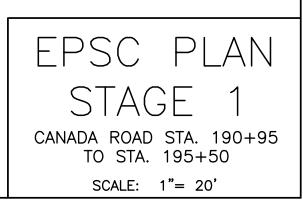
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2019	79LPLM-F3-554	6

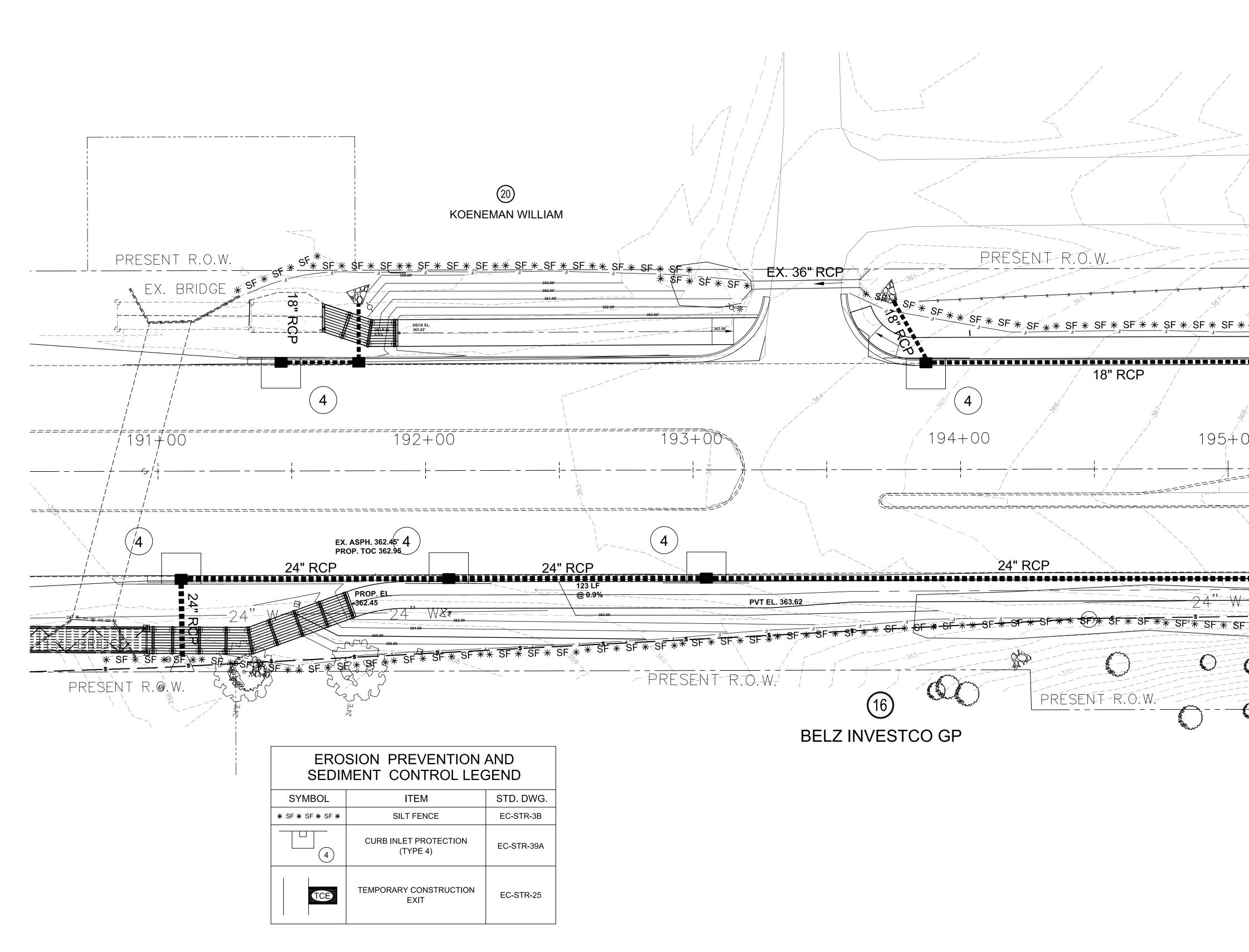


EROSION PREVENTION & SEDIMENT CONTROL (EPSC) NOTES



	TYPE	YEAR	PROJECT NO.	SHE NC
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PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

- A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC. CAUSED BY BASE. PAVING OR **RESURFACING:**
 - 1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 1.75 **INCHES**:
 - a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
 - DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
 - DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC C. LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
 - WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.
 - 2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 1.75 INCHES AND NOT EXCEEDING 6 INCHES, TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.
 - a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
 - WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, (1) SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
 - WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE (2) MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.
 - IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
 - WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE C. THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED. SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS. THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES. THE CONTRACTOR. WITH THE ENGINEER'S APPROVAL. MAY UTILIZE ONE OF THE FOLLOWING:

- a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
 - (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER. SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
 - (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

- THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER. TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.
- c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO SIX INCHES OR LESS.
- THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL

IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

- IF THE DIFFERENCE IN ELEVATION I B. NEAREST TRAFFIC LANE BEING USE GRADING. EXCAVATION FOR UTILITI UNDERCUTTING. ETC.:
 - 1. IF THE DIFFERENCE IN ELEVATION IS TRAFFIC LANE WITH DIFFERENCE IN INCH AND NOT EXCEEDING 2 INCHE
 - WARNING SIGNS (UNEVEN LAN а SHALL BE PLACED IN ADVANCE EXPOSED AREA. MAXIMUM SP 2,000 FEET WITH A MINIMUM OI WHERE UNEVEN PAVEMENT IS PLACED ON EACH SIDE OF THE
 - 2. IF THE DIFFERENCE IN ELEVATION IS TRAFFIC LANE WITH DIFFERENCE IN **INCHES AND NOT EXCEEDING 6 INC**
 - SEPARATION SHALL BE ACCOM OR OTHER APPROVED DEVICE FOLLOWING:
 - (1) WHERE POSTED SPEEDS SPACING OF THE PROTEC 100 FEET.
 - (2) WHERE POSTED SPEEDS MAXIMUM SPACING OF TH SHALL NOT EXCEED TWIC PER HOUR OR 50 FEET, W
 - 3. IF THE DIFFERENCE IN ELEVATION IS TRAFFIC LANE WITH DIFFERENCE IN INCHES:
 - SEPARATION SHALL BE ACCOM а OR OTHER APPROVED DEVICE FOLLOWING:
 - (1) WHERE POSTED SPEEDS SPACING OF THE PROTEC 100 FEET.
 - (2) WHERE POSTED SPEEDS MAXIMUM SPACING OF TH SHALL NOT EXCEED TWIC PER HOUR OR 50 FEET. W
 - b. ELIMINATE VERTICAL OFFSET WEDGE OR GRADING TO A 4:1 PORTABLE BARRIER RAIL.

THE CONTRACTOR SHALL SCHEDUL THE TIME TRAFFIC IS EXPOSED TO A THE CONTRACTOR BEGINS AN ACTI DIFFERENCE WITHIN 8 FEET OF A TH **BE PURSUED AS A CONTINUOUS OP** DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS THE NEAREST TRAFFIC LANE BUT N THE NEAREST TRAFFIC LANE:

> SEPARATION SHALL BE ACCOMPLISHED OTHER APPROVED DEVICES IN ACCORDA

- 1. WHERE POSTED SPEEDS ARE 50 MF PROTECTIVE DEVICES SHALL NOT E
- 2. WHERE POSTED SPEEDS ARE LESS SPACING OF THE PROTECTIVE DEVI TWICE THE POSTED SPEED IN MILES WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THI TIME TRAFFIC IS EXPOSED TO AN ELEVA CONTRACTOR BEGINS AN ACTIVITY THAT DIFFERENCE, THE ACTIVITY SHALL BE PU **OPERATION UNTIL THE ELEVATION DIFFE**

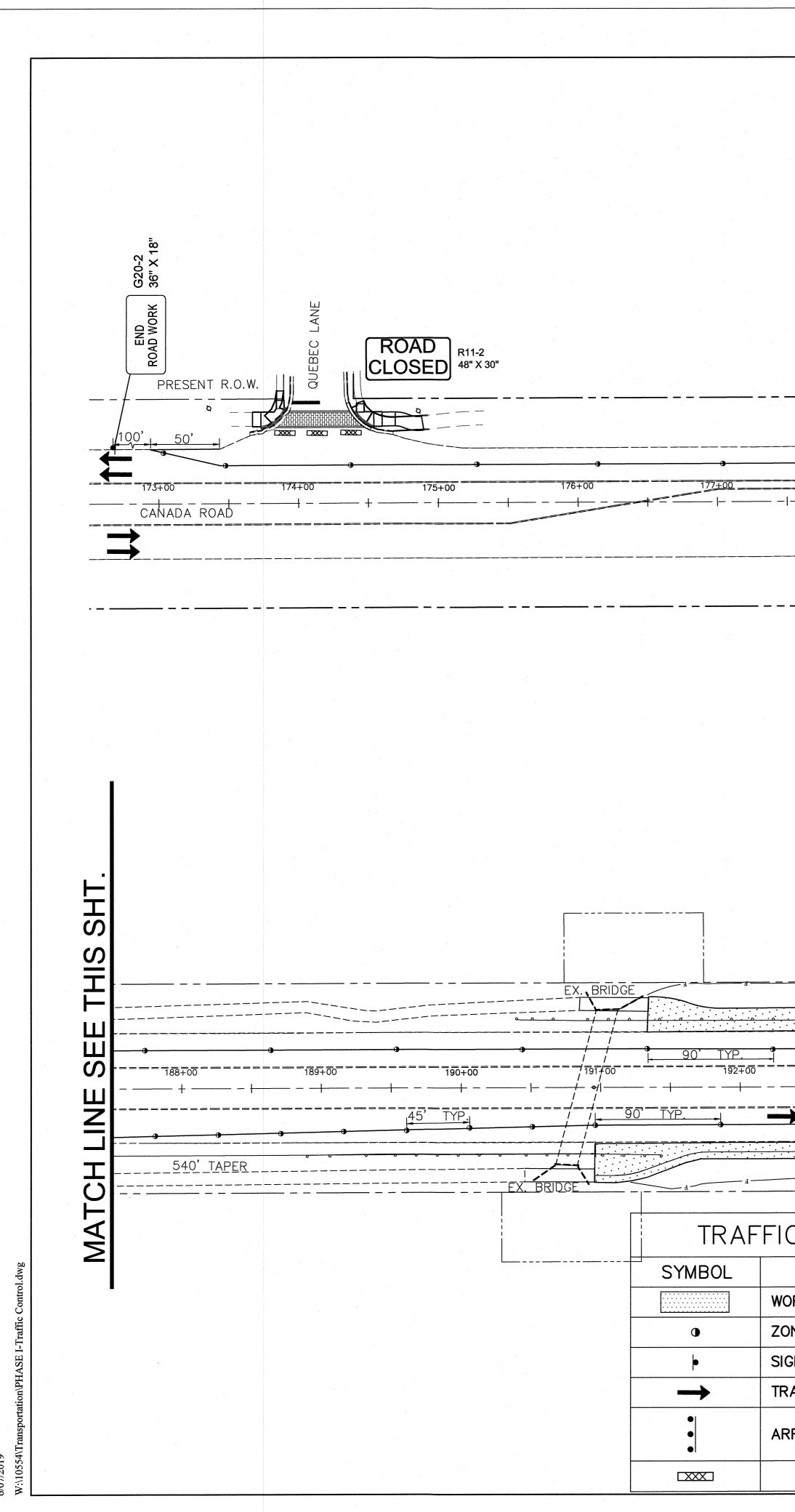
	CONST.	2019	79LPLM-F3-554	T1
S WITHIN 30 FEET OF THE				
ED BY TRAFFIC CAUSED BY ES, DRAINAGE STRUCTURES,				
S WITHIN 8 FEET OF THE NEAREST I ELEVATION GREATER THAN 3/4 S.				
IES AND/OR SHOULDER DROP-OFF) E OF AND THROUGHOUT THE ACING BETWEEN SIGNS SHALL BE F 2 SIGNS PER EXPOSED AREA. E ENCOUNTERED, SIGNS SHALL BE E ROADWAY.				
S WITHIN 8 FEET OF THE NEAREST I ELEVATION GREATER THAN 2 HES:				
IPLISHED BY DRUMS, BARRICADES S IN ACCORDANCE WITH THE				
ARE 50 MPH OR GREATER, CTIVE DEVICES SHALL NOT EXCEED				
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S WITHIN 8 FEET OF THE NEAREST I ELEVATION GREATER THAN 6				
IPLISHED BY DRUMS, BARRICADES S IN ACCORDANCE WITH THE				
ARE 50 MPH OR GREATER, CTIVE DEVICES SHALL NOT EXCEED				
ARE LESS THAN 50 MPH THE HE PROTECTIVE DEVICES IN FEET CE THE POSTED SPEED IN MILES /HICHEVER SPACING IS GREATER.				
BY CONSTRUCTING A STONE SLOPE, OR FLATTER, OR USE				
E THE WORK SO AS TO MINIMIZE AN ELEVATION DIFFERENCE. ONCE VITY THAT CREATES AN ELEVATION RAFFIC LANE, THE ACTIVITY SHALL PERATION UNTIL THE ELEVATION				
S FARTHER THAN 8 FEET FROM OT MORE THAN 30 FEET FROM				
BY DRUMS, BARRICADES OR ANCE WITH THE FOLLOWING:				
PH OR GREATER, SPACING OF THE EXCEED 100 FEET.		A Denne	Stered ENGTH	
THAN 50 MPH, THE MAXIMUM CES IN FEET SHALL NOT EXCEED S PER HOUR OR 50 FEET,			ACRICOLITUDE 10235 OF TENNES	
E WORK SO AS TO MINIMIZE THE TION DIFFERENCE. ONCE THE CREATES AN ELEVATION	-		09/30/2019	
IRSUED AS A CONTINUOUS RENCE IS ELIMINATED.			MENT EDGE -OFF NOTES	

TYPE YEAR

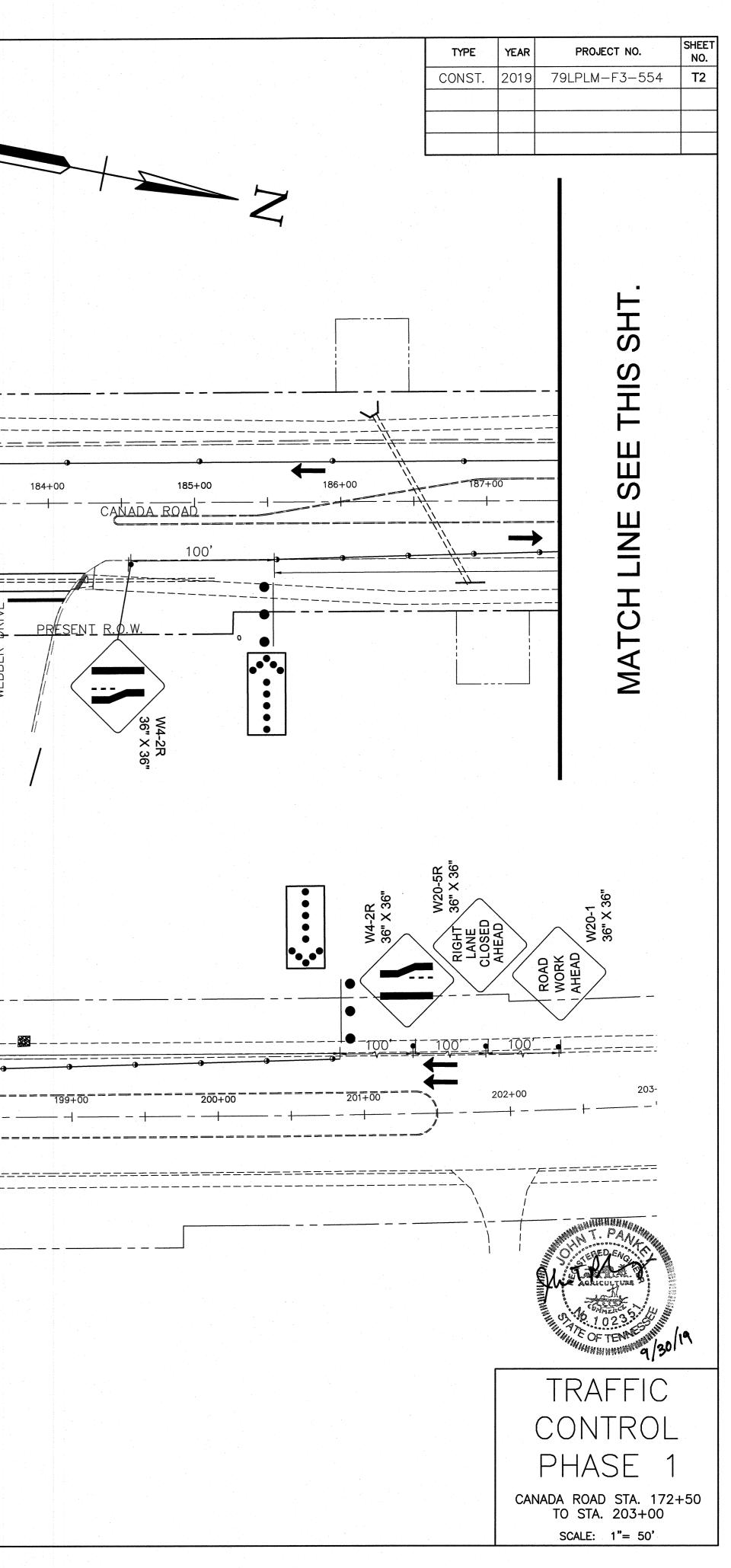
SHEET

PROJECT NO.

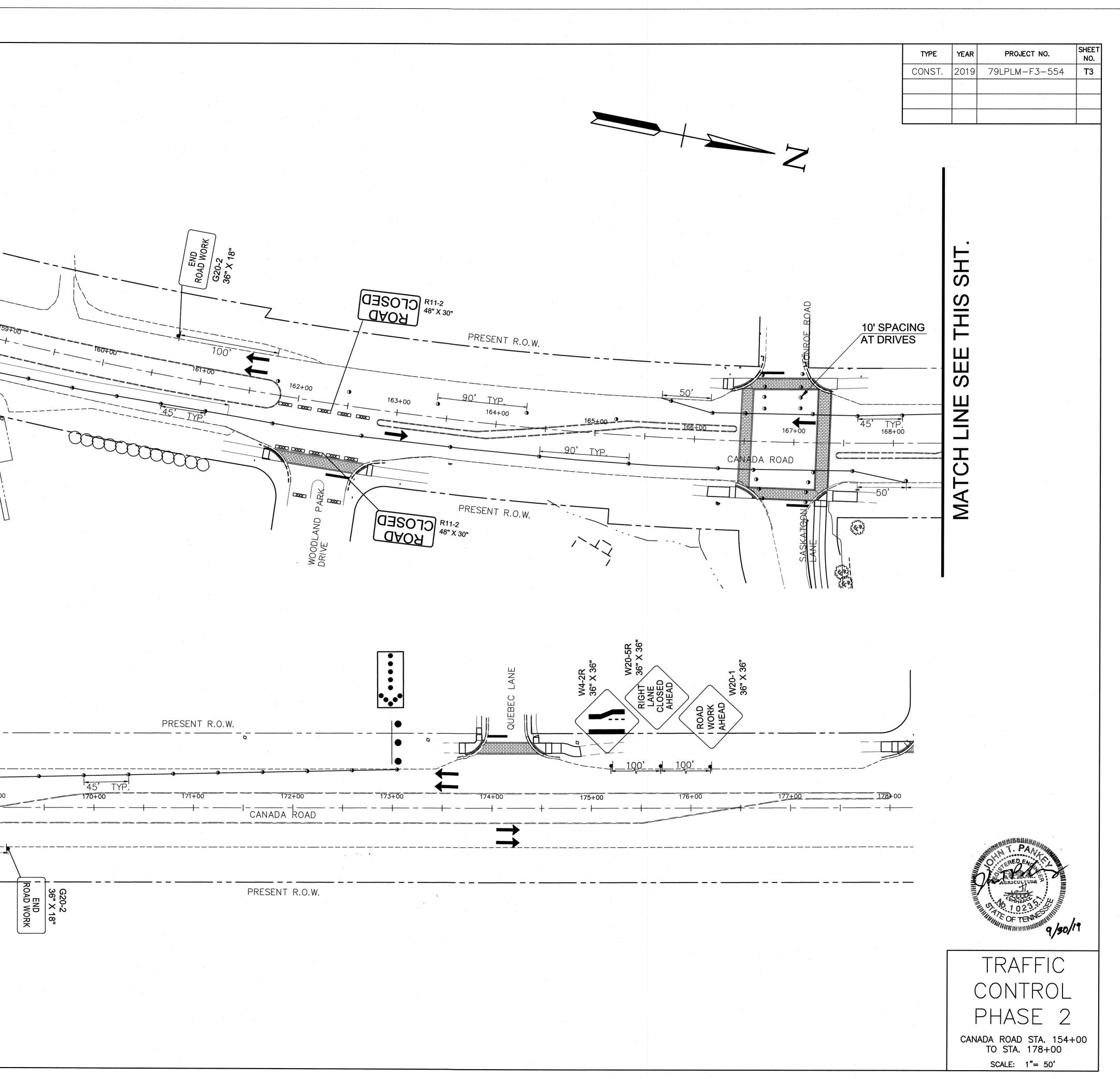
TRAFFIC CONTROL



HIND HONORED R11-2 48" X 30 PRESENT R.O.W.)"				
				• • • • • • • • • • • • • • • • • • •	
PRESENT R.O.W.		36" X 36"	ROAD WORK W20-1	RIGHT LANE CLOSED AHEAD 36" X 36"	WEBBER DRIVE
ROAD CLOSED R11-2 48" X 30"				40° TAPER	
		HCAN	I97+00	45' TYP 198+0 	
C CONTROL LEGEND		9'		G20-2 36" X 18"	
ITEM ORK ZONE ONE CONES (CHANNELIZING) GN (CONSTRUCTION)					
RAFFIC FLOW RROW BOARD TYPE C					



154+00	HdSy HdSy	
	<u>765.06</u> ^{155∓00}	
1		/
	100'	
	100' CÁNADA ROAD 157700	
WORK AHEAD		158+00
		540
W20-1 36" X 36"	AHEAD AHEAD	
-1 36"		
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		Ш Ц Ц
TRA	FIC CONTROL LEGEND	
SYMBOL	ITEM	HATCH
	TEMPORARY BARRICADE (TYPE III)	
	ZONE CONES (CHANNELIZING)	
	SIGN (CONSTRUCTION)	
	TRAFFIC FLOW	
	ARROW BOARD TYPE C	



TRAI	FIC CONTROL LEGEND
	TIO CONTINUE LECEND
SYMBOL	ITEM
•	ZONE CONES (CHANNELIZING)
Þ	SIGN (CONSTRUCTION)
>	TRAFFIC FLOW
•	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)

