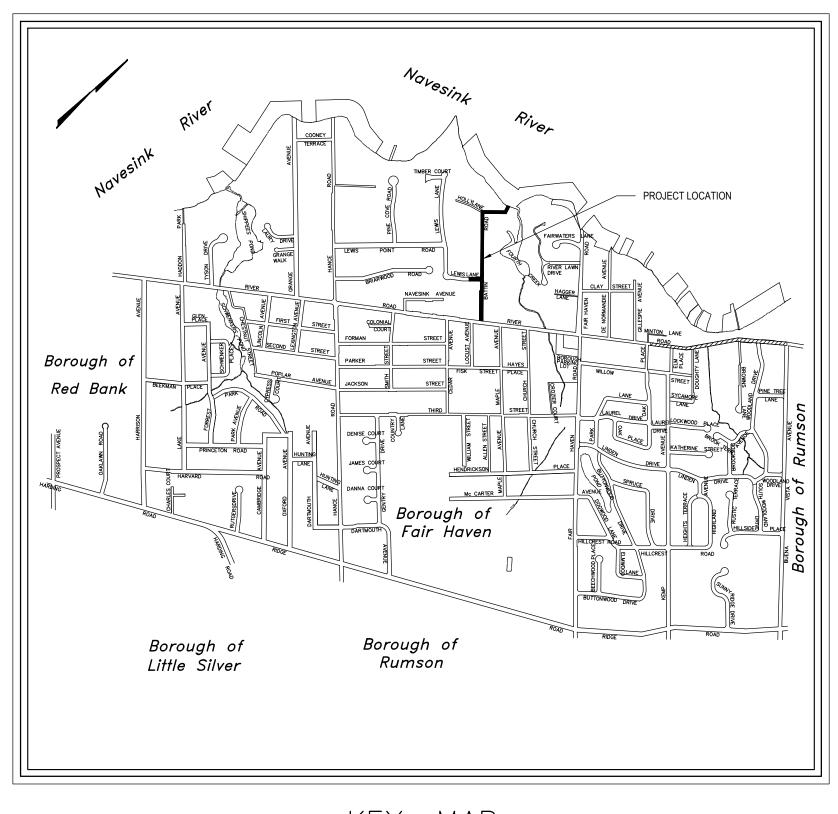
IMPROVEMENTS TO BATTIN ROAD NEW JERSEY DEPARTMENT OF TRANSPORTATION TRUST FUND BOROUGH OF FAIR HAVEN MONMOUTH COUNTY, NEW JERSEY JANUARY 2020

PUBLIC UTILITIES			
ELECTRIC JERSEY CENTRAL POWER & LIGHT ONE RIVER CENTRE 331 NEWMAN SPRINGS ROAD, BLDG. 3 RED BANK, NEW JERSEY 07701	(732) 212–4246		
<u>GAS</u> NEW JERSEY NATURAL GAS COMPANY 1415 WYCKOFF ROAD WALL, NEW JERSEY 07719	(732) 938–1000		
<u>WATER</u> NJ AMERICAN WATER COMPANY 661 SHREWSBURY AVENUE SHREWSBURY, NEW JERSEY 07702	(732) 933–5924		
BOROUGH OF REDBANK 75 CHESTNUT STREET REDBANK, NEW JERSEY 07701	(732) 530–2770		
<u>TELEPHONE</u> VERIZON 5100 BELMAR BLVD. FARMINGDALE, NEW JERSEY 07727	(732) 751–8718		
<u>CABLE</u> COMCAST CABLE COMPANY 403 SOUTH STREET EATONTOWN, NJ 07724	(732) 542-8107		
<u>SEWER</u> TWO RIVERS WATER RECLAMATION AUTHOR 1 HIGHLAND AVENUE MONMOUTH BEACH, NEW JERSEY 07750			
LOCATION OF UTILITIES SHOWN ON THE PLANS ARE PLOTTED FROM AVAILABLE DATA ON FILE WITH THE UTILITY COMPANIES AND ARE NOT WARRANTED AS TO EXACTNESS. CONTRACTOR IS TO DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES AT ALL CROSSINGS PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.			



KEY MAP scale : 1"=2000'

> NJDOT STANDARD ROADWAY CONSTRUCTION - TRAFFIC CONTROL - BRIDGE CONSTRUCTION DETAILS BOOKLET AND STANDARD SPECIFICATIONS (2019) SHALL GOVERN FOR THIS PROJECT.

SHEET INDEX

- TITLE SHEET AND LOCATION PLAN
- LEGEND, NOTES, AND CONTRACT QUANTITIES CONSTRUCTION PLANS

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- CONSTRUCTION DETAILS
- TRAFFIC CONTROL PLAN AND NOTES

TITLE SHEET AND LOCATION PLAN

IMPROVEMENTS TO BATTIN ROAD



BOROUGH OF FAIR HAVEN 748 River Road, Fair Haven, NJ 07704 phone: 732.747.0241 fax: 732.747.6962 website: www.fairhavennj.org

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Drawn by: RG	Designed by: RG	
Sheet Number: 1		

of 7

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		<u>RD_LEGEND</u> 	<i>w</i>	Water Main (Size)		
<	© G G G G G	<i>G</i> <i>T</i>	G T	Gas Main (Size) Telephone Conduit		
	Existing Jct. Box			Electrical Conduit	Highwa	
	Exist.	RECONSTRUCT	RESET	Electrical Conduit, Existing Sanitary S	Sewers	у
	(Over 30" Draw to Size)	(Size and Type) (SIZE and TYPE)	Flow	- and Storm Drair Proposed Sanitary		
	CONCRETE		FLOW	and Storm Drain	IS	
	Exist. PROPOSED	Exist. PROPO	PROPOSED	Shoulders Pavements		
	(F) (C)	(C)/	(F)	Slopes		
	2+00 B	-	3+00	Base Line		
	Existing R.O.W.	PROPOSED	R.O.W.	Right of Way Lines	3	
	Existing R.O.W.	PROP	OSED R.O.W.	Access Permitted No Access		
					Lines	
				Twp., City, County Property Line	Lines	
	Exist.	PROP		Curbs, Concrete o	- Bitum	inous
	(Size, Sloping or Vertical) — x — x <u>Exist.</u> x — x —	(Size, Sloping PROP(x x		Fences		
	Exist.			Beam Guide Rail		
				Reset Beam Guide		
	Exist. PROP. Vertical ठ ∡ Panels	Exist. PROP. End O ● Term	Exist. inal △	PROP. Beam Guia ▲ Anchorage		
	Exist. PROPOSED	RESET CASTING				
	Exist. Inlets (Type ES)		PROP. INLE (TYPE ES)	TS		
	New Manhole Casting, Square Frame, Circular Cover NOTES: Curb pieces for Inlets, Type B are		Extension Frame g Inlet ed			
	All inverts and elevations shown an Existing Ditch Flow	e in feet. PROPOSED DITCH	FLOW			
	☐ Existing Monument	 ■ PROPOSE	D MONUMENT			
			Il Depth			
	Mill and Overlay		vement			
	XXXXXX X XXXXXX and Concrete Surface Courses		ilding to be Remove id for Under Clearin			
	BENCHMARK	IE D- PARCEL	Demolition No. & of Building to be			
	· · · ·		Davian Symphol		°c/0	Sanitary Sewer Cleanout
	Test Pit	4	Boring Symbol		OWM	Water Meter
	O ^W Water Gate Valve	0			A	Hydrant
_	-O- Pole No. & Type (Guy, Light, Etc	.) –•	⊢ Proposed Utility		-O- Temp	Proposed Temporary Utility Po
_	(Size, Kind)	*	Evergreens			Mailbox
	E Bush	ليربيه	> Hedges		Ţ	Street I.D. Sign
	Traffic Light			-		
	 Fiber Optic Junction Box Junction Box Foundation 	Ē		Optic Junction Box		
	Junction Box Foundation	Ĺ		on Box Foundation		
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	Exist. Headwall		Prop. Headwall			
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	• Existing Elevation	TC41.: BC40.:	97 Proposed Grade 87			
	High Point	[Low Poi	nt		
	N V All Measurements 1	o Face Of Line From Cente	r Line			
	├────┐ ┬── I ╶┬─		<i>V///X///</i>			
		Proposed Bridge				

BID ITEMS AND QUANTITIES

Item No.	Description	Unit	Quantity
1	CLEARING SITE	LS	1
2	PRE-CONSTRUCTION VIDEO	LS	1
3	INLET FILTER, TYPE 1	SF	30
4	BREAKAWAY BARRICADE WITH SIGN	UN	4
5	CONSTRUCTION SIGNS	SF	30
6	DRUM	UN	10
7	TRAFFIC CONE	UN	25
8	TRAFFIC DIRECTOR, FLAGGER	HR	350
9	CONCRETE SIDEWALK, REINFORCED, 4" THICK	SY	285
10	DETECTABLE WARNING SURFACE	SY	4
11	REMOVE AND RESET BRICK PAVER WALKWAY	SY	20
12	CONCRETE DRIVEWAY, REINFORCED, 6" THICK	SY	125
13	8"X18" CONCRETE VERTICAL CURB	LF	1,500
14	GRANITE CURB	LF	25
15	SEGMENTAL WALL, LESS THAN 24" HEIGHT	LF	75
16	HOT MIX ASPHALT DRIVEWAY, 2" THICK	SY	60
17	GRAVEL DRIVEWAY	SY	25
18	REMOVE AND RESET BRICK PAVER DRIVEWAY	SY	120
19	MILLING, 0"-3" DEPTH	SY	4,900
20	MILLING, VARIABLE DEPTH	SY	1,050
21	SUPERPAVE HOT MIX ASPHALT SURFACE COURSE (2")	TON	685
22	HOT MIX ASPHALT BASE COURSE (4")	TON	200
23	DENSE GRADED AGREGATE (6")	TON	325
24	TACK COAT	GAL	100
25	BICYCLE SAFE GRATE	UN	1
26	CURB PIECE	UN	1
27	RESET EXISTING CASTING	UN	1
28	RESET WATER VALVE BOX	UN	16
29	RESET GAS VALVE BOX	UN	4
30	INLET, TYPE 'B'	UN	5
31	HDPE PIPE, 15" DIAMETER	LF	85
32	REGULATORY AND WARNING SIGN	SF	50
33	TRAFFIC STRIPES, THERMOPLASTIC, 4"	LF	650
34	EXCAVATION, TEST PIT	CY	4
35	TREE REMOVAL, UP TO 12" CAL. DBH	UN	4
36	TREE REMOVAL, OVER 12" CAL. DBH	UN	2
37	TOPSOILING (4" THICK)	SY	750
38	SODDING	SY	750

GENERAL NOTES:

1. LIMIT OF PAVING, THE CONTRACTOR SHALL SAWCUT OR MILL STRAIGHT LINE 13. ALL TREES ADJACENT TO OR WITHIN THE LIMITS OF WORK ARE NOT TO BE AS DIRECTED BY THE ENGINEER TO MEET EXISTING.

2. INSTALLATION OF SURFACE COURSE SHALL NOT BE ALLOWED UNTIL THE BASE COURSE IS APPROVED BY THE ENGINEER. THE ENGINEER WILL DIRECT THE CONTRACTOR TO MAKE CORRECTIVE MEASURES TO THE BASE COURSE PRIOR TO INSTALLING THE SURFACE COURSE. ALL COSTS FOR CORRECTIVE WORK, IF ANY, SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.

3. NO SEPARATE PAYMENT SHALL BE MADE TO SAWCUT EXISTING PAVEMENT, DRIVEWAYS, OR SIDEWALKS, INCLUDE ALL COSTS IN THE VARIOUS ITEMS IN THE PROPOSAL.

4. HOT MIX ASPHALT BASE COURSE AREAS SHALL BE PARALLEL TO THE ROADWAY CENTERLINE AND RECTANGULAR IN SHAPE AND EDGES SHALL BE SQUARE.

5. NO SEPARATE PAYMENT WILL BE MADE FOR ROADWAY EXCAVATION OF ANY KIND, INCLUDE ALL COST IN THE VARIOUS ITEMS.

6. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL PROPERTY CORNERS, DURING CONSTRUCTION. ANY PROPERTY CORNERS DISTURBED SHALL BE RESET AT THE EXPENSE OF THE CONTRACTOR.

7. THE CONTRACTOR SHALL PROVIDE SLEEVES IN CURB FACE FOR ROOF DRAINS AND SUMP PUMP PIPES WHERE REQUIRED. 8. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES TO COORDINATE ANY WORK THAT MAY NEED TO BE CONDUCTED WITHIN THE LIMITS OF WORK.

9. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS IN YARDS AND PRIVATE PROPERTIES ALONG PROPOSED SIDEWALK AND DRIVEWAY INSTALLATIONS.

10. HEDGES, BUSHES, LANDSCAPE TIES, STONE EDGING, STONE WALLS, SIGNS, LANDSCAPE MATERIAL, MAILBOXES, FENCES, AND EDGING MATERIAL FOR DRIVEWAYS, SIDEWALKS. AND ROADWAY WIDENING SHALL BE RESET OR REPLACED AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE, INCLUDE ALL COSTS IN THE VARIOUS ITEMS IN THE PROPOSAL. TREE CLEARING AND TRIMMING SHALL BE INCLUDED IN THE COST OF CLEARING SITE.

11. THE CONTRACTOR SHALL INSTALL TRAFFIC STRIPES (CROSSWALKS, STOP BARS, AND DOUBLE-YELLOW) AS DIRECTED BY ENGINEER.

12. ALL TRAFFIC CONTROL SIGNS AND STRIPING SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. HANDBOOK. EXACT LOCATION AND TYPE OF STREET SIGNS SHALL BE DETERMINED BY ENGINEER.

DISTURBED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROTECT TREES DURING ALL CONSTRUCTION RELATED ACTIVITIES. 14. THE TOPSOIL USED FOR THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS. ANY TOPSOIL NOT MEETING WITH THE

15. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS/HER OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

EXPENSE.

16. EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS.

17. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON.

IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH: N.J. DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AS CURRENTLY AMENDED. 19. THE BASE MAP INDICATING EXISTING CONDITIONS WAS PREPARED BY

VALLEE SURVEY. 20. CENTERLINE GRADES SHALL MATCH TOP OF CURB ELEVATIONS, UNLESS

21. CONTRACTOR SHALL PROVIDE SURVEY AND STAKEOUT FOR THE ROADWAY AND AREA OF WORK. INCLUDE ALL COSTS IN OTHER ITEMS BID IN THE SCEDULE OF PRICES. DISCREPENCIES WITH PROPOSED GRADING SHALL BE REVIEWED WITH ENGINEER.

22. CONTRACTOR SHALL PROVIDE A PRE-CONSTRUCTION VIDEO PERFORMED BY A PROFESSIONAL VIDEOGRAPHER. INCLUDE ALL COSTS IN THE 'CLEARING SITE' PAY ITEM IN THE SCHEDULE OF PRICES.

23. IN THE EVENT OF WORK BEING SUSPENDED BY UNSUITABLE WEATHER CONDITIONS, THE CONTRACTOR, AT THEIR EXPENSE, SHALL DO ALL THE WORK NECESSARY TO PROVIDE A SAFE, SMOOTH, WELL DRAINED AND UNOBSTRCTED PASSAGEWAY THROUGH AND ADJACENT TO THE CONSTRUCTION AREA FOR USE BY THE PUBLIC AND EMERGENCY AND MAINTENANCE VEHICLES DURING THE PERIOD OF SHUT-DOWN.

	DATE:
ICHARD GARDELLA, PE, PP, CME, CPWN	1
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: No d by: Sheet Number: 2 of 7



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IMPROVEMENTS TO BATTIN ROAD

LEGEND, NOTES, AND CONTRACT QUANTITIES

OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.

18. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR SITE

ENGINEER'S APPROVAL SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S

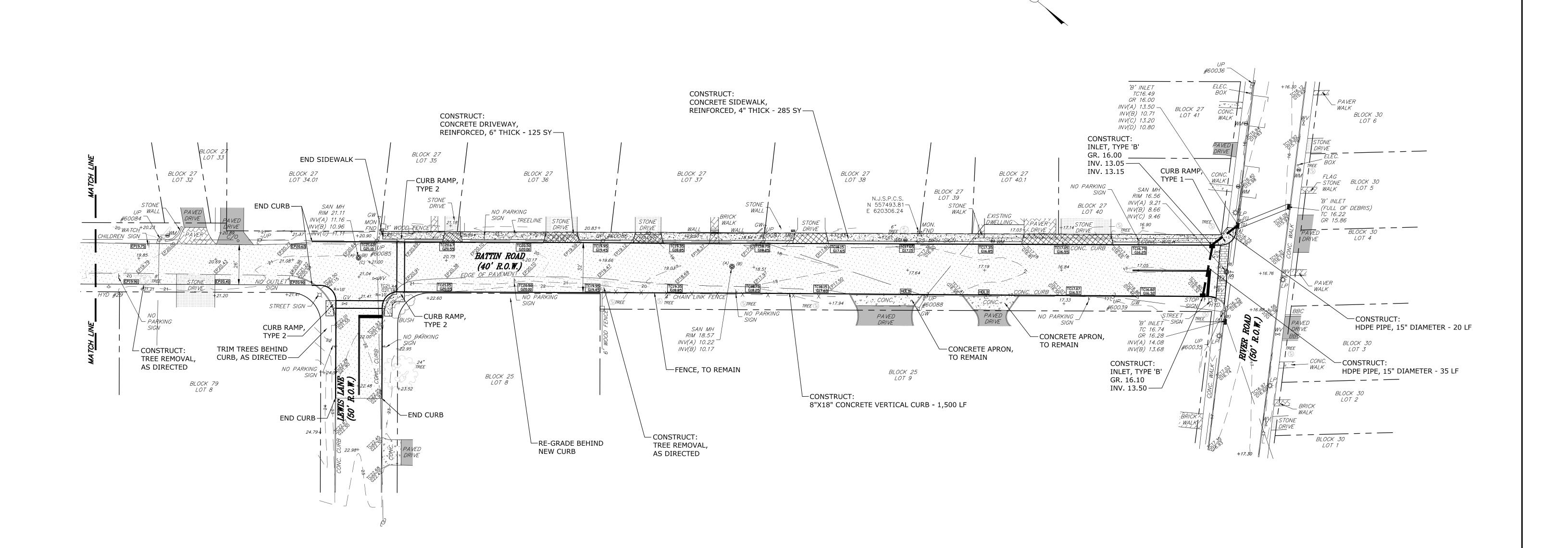
AND SEALED BY A NJ PROFESSIONAL ENGINEER. 28. THESE GENERAL NOTES APPLY TO ALL SHEETS IN THIS SET OF PLANS.

INSTALLATION. 27. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR WALL DESIGN, SIGNED

BE USED ON ANY PROJECT. 26. CURB RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS. TYPE OF CURB RAMP SHALL BE DETERMINED BY THE ENGINEER PRIOR TO

25. CURB RAMPS SHALL BE INSTALLED AT LOCATIONS DIRECTED BY ENGINEER. DETECTABLE WARNING PUBLIC SIDEWALK CURB RAMP DELINEATION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 607 OF THE SPECIFICATIONS AND THE SPECIAL PROVISIONS WHICH INCLUDE A LIST OF ACCEPTABLE SYSTEMS. UNLESS A SPECIFIC DELINEATION SYSTEM IS REQUIRED BY THE SPECIAL PROVISIONS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF VARIOUS SYSTEMS AND COLORS TO THE OWNER FOR APPROVAL. ONLY ONE SYSTEM MAY

24. CONTRACTOR SHALL MEASURE EXISTING INLET CASTING AND SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL FOR ECO-GRATES AND CURB PIECES AND SUPPLY AND INSTALL SAME.



CONSTRUCTION PLANS			
IMPROVEMENTS TO BATTIN ROAD			

DATE:

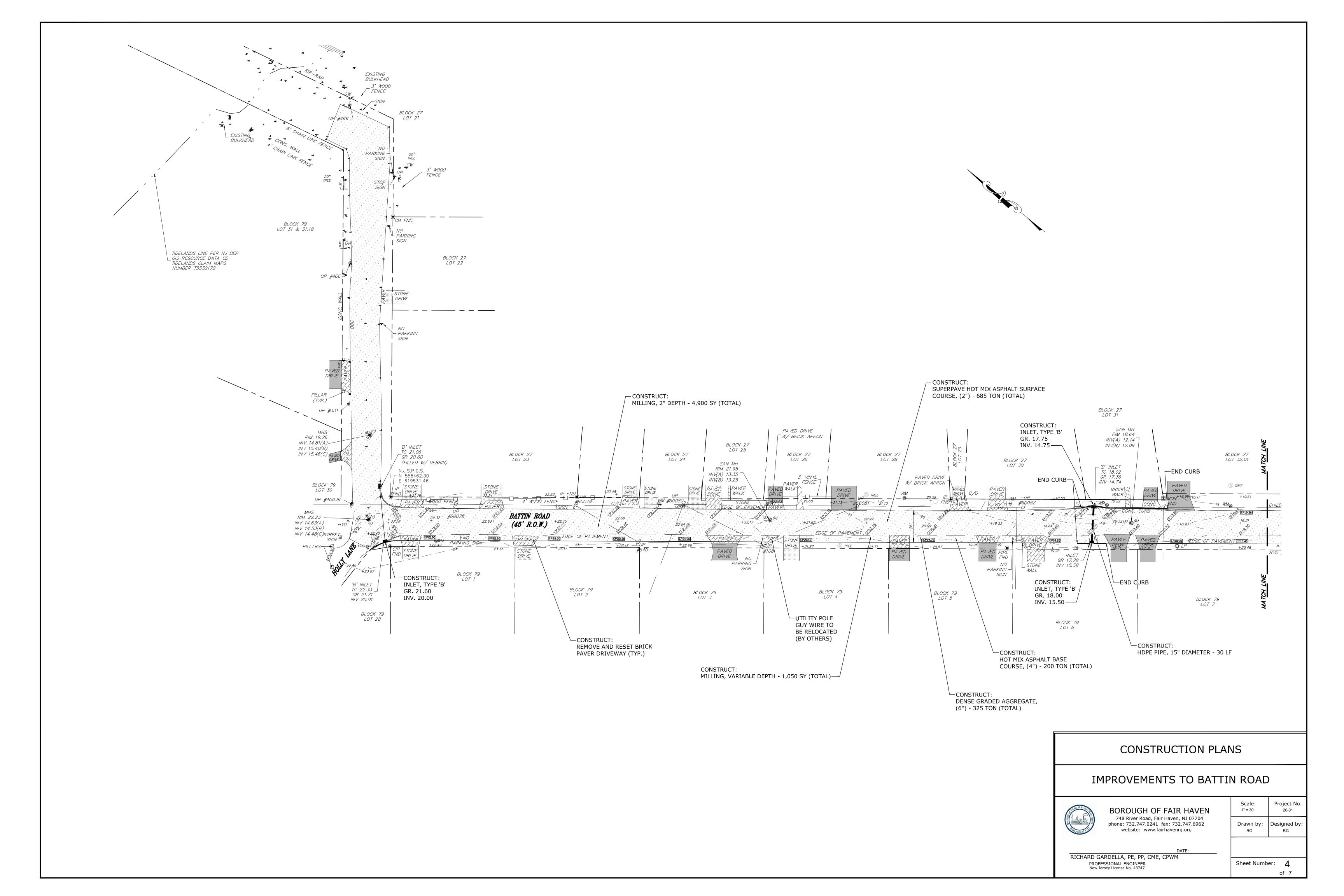


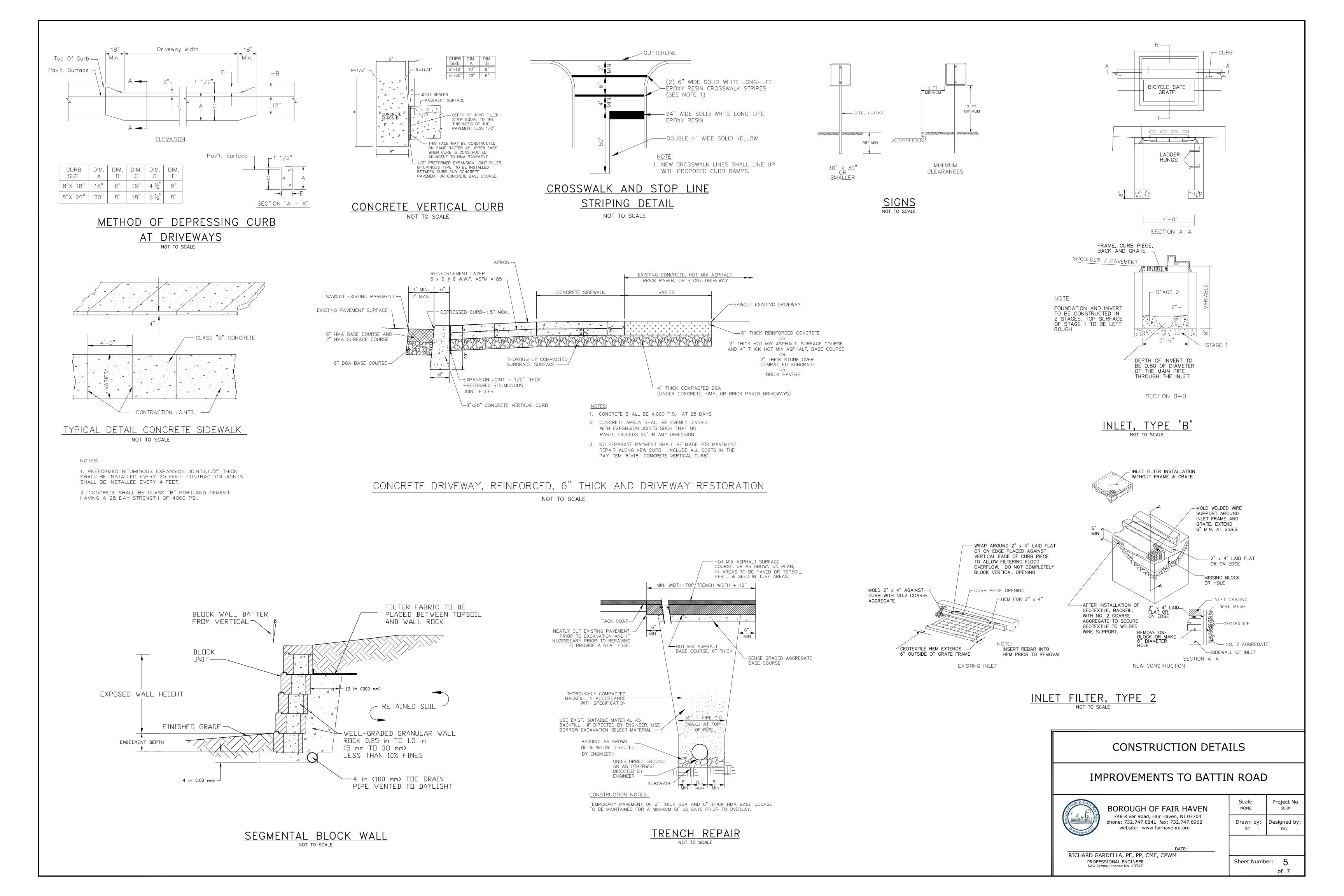
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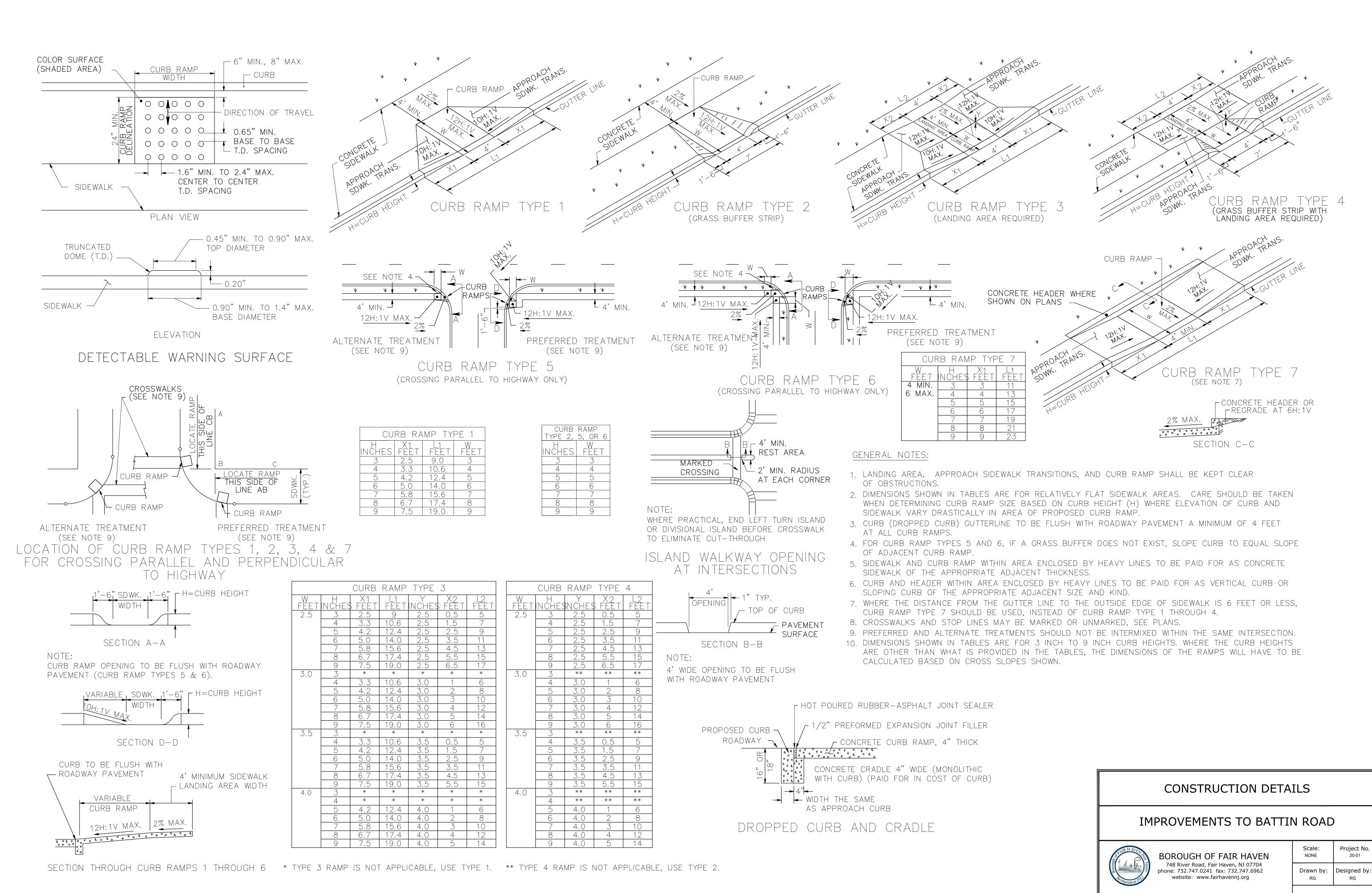
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Sheet Number: 3 of 7

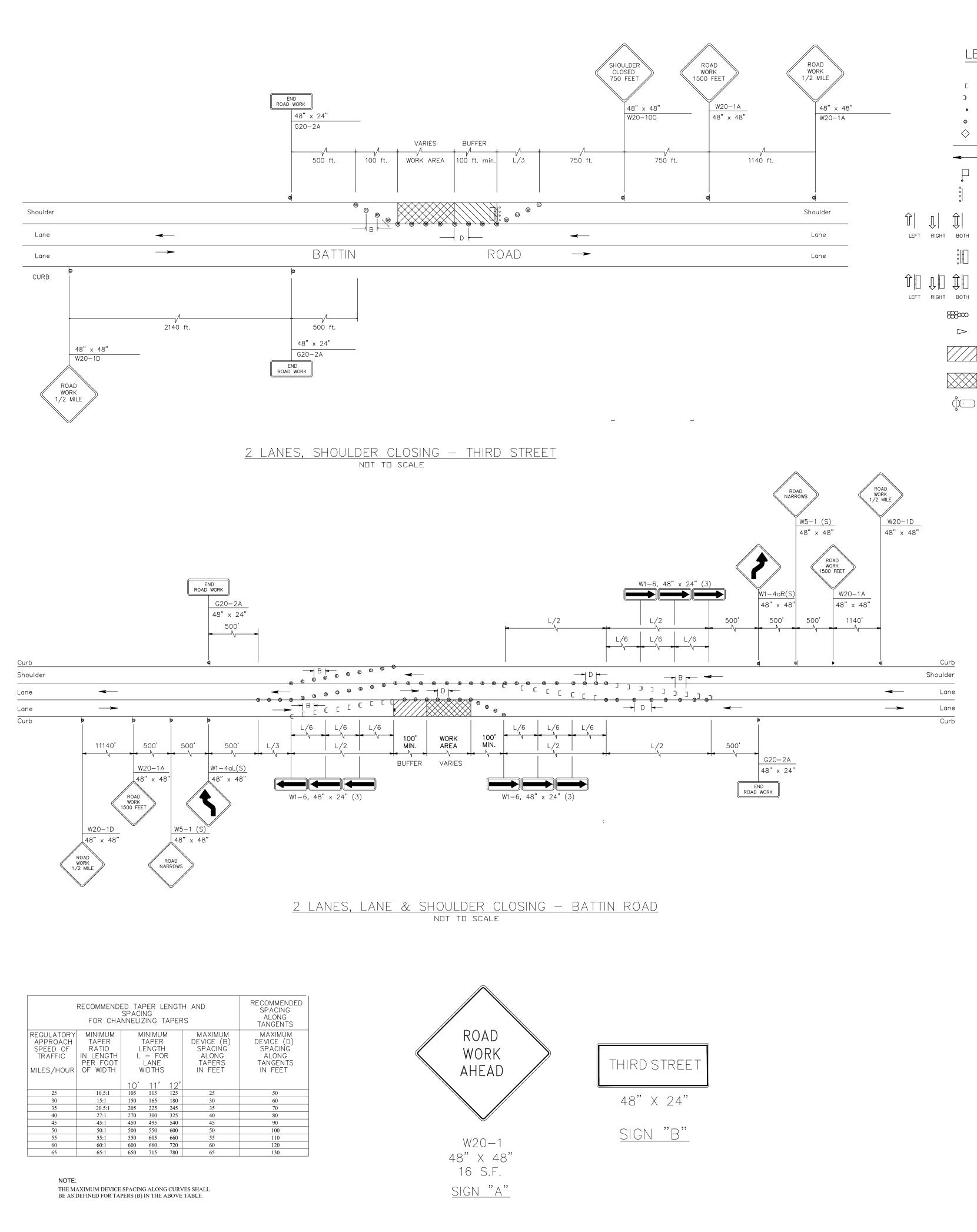






DATE RICHARD GARDELLA, PE, PP, CME, CPWM PROFESSIONAL ENGINEER New Jersey License No. 43747

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LEGEND

BREAKAWAY BARRICADE

- BREAKAWAY BARRICADES WITH SIGN
- CONSTRUCTION SIGNS DRUM
- TRAFFIC CONE
- PRECAST CONCRETE CURB CONSTRUCTION BARRIER (TYPE SPECIFIED) DIRECTION OF TRAFFIC FLOW
- TRAFFIC DIRECTOR FLAGGER

TRAILER MOUNTED MOUNTED ARROW BOARD SHOWING CAUTION MODE

ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING ARROW PATTERN (Left, Right, Both)

TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION

TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (Left, Right, Both)

TEMPORARY CRASH CUSHION, INERTIAL BARRIER SYSTEM TEMPORARY CRASH CUSHION, (all other approved)

BUFFER ZONE

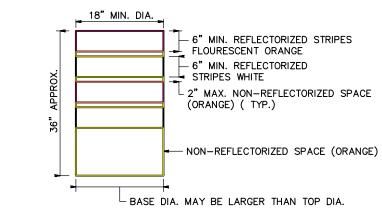
WORK AREA

PAINT STRIPING TRUCK OR OTHER OPERATING VEHICLE

DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE FLUORESCENT

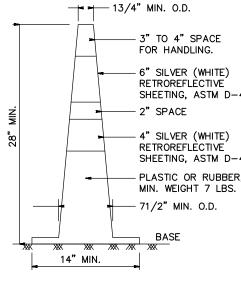
BETWEEN THE STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE. RETROREFLECTIVE SHEETING FOR STRIPES SHALL CONFORM WITH ASTM D 4956 TYPE VII OR VIII WITH S2 REQUIREMENTS. THE TOP OF THE DRUM SHALL NOT BE OPEN. DRUMS SHALL BE CONSTRUCTED TO INHIBIT ROLLING IF KNOCKED OVER.

THE REFLECTORIZED AREA OF DRUMS SHALL BE ROUND EXCEPT THAT OTHER SHAPES, WHICH PROVIDE THE SAME VISIBILITY AS AN 18 INCH DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED.



WHEN BALLAST IS REQUIRED BY THE R.E., SAND SHALL BE USED. THE MAXIMUM WEIGHT OF THE BALLAST SHALL BE 50 LBS. AND BE LOCATED APPROXIMATELY AT GROUND LEVEL. ALTERNATE TYPES OF BALLAST SHALL BE APPROVED BY THE R.E.. DRUMS

NOTES: TRAFFIC CONES SHALL BE PREDOMINATELY ORANGE IN COLOR. BASES MAY BE OF BREAKAWAY BALLASTED TYPE. MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER.



TRAFFIC CONES

GENERAL NOTES:

BE IN PLACE.

COVERED.

CONSTRUCTION.

AHEAD) AS A MINIMUM.

1. ADVANCE WARNING SIGNS DISTANCES, AND TAPER LENGTHS MAY BE EXTENDED, AT DIRECTION OF THE DEPARTMENT, TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY.

2. THE APPROXIMATE LOCATIONS OF THE ILLUMINATED FLASHING ARROW BOARDS ARE SHOWN ON THE TRAFFIC CONTROL PLANS. THESE LOCATIONS MAY BE MODIFIED AS APPROVED BY RE TO ADJUST FOR VISIBILITY DUE TO HORIZONTAL OR VERTICAL CURVATURE OF THE ROADWAY OR TO POSITION AT A SAFER LOCATION. ILLUMINATED FLASHING ARROW BOARDS ARE TO BE USED FOR TEMPORARY LANE CLOSINGS AND AT LOCATIONS SHOWN ON THE TRAFFIC CONTROL PLANS.

3. PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES SHALL 4. RAMPS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE W20-IF SIGN (ROAD WORK

5. ALL EXISTING ROAD SIGNS, PAVEMENT MARKINGS AND/OR PLOWABLE PAVEMENT REFLECTORS WHICH CONFLICT WITH THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE COVERED, REMOVED OR RELOCATED AS DIRECTED BY THE RE.

6. CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON EITHER THE EXISTING, TEMPORARY, OR PROPOSED TRAFFIC SIGNAL SYSTEMS SHALL BE BAGGED OR

7. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART VI "STANDARDS AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS", UNLESS OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS.

8. CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) SHALL BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS. 9. A W1-6 (ARROW) SIGN MOUNTED ON A BREAKAWAY BARRICADE AND CENTERED ON THE CLOSED WIDTH SHALL BE LOCATED 100 FEET BEYOND EACH INTERSECTION OR

MAIN ACCESS POINT WITHIN THE AREA OF A LANE OR SHOULDER CLOSURE. 10. CONSTRUCTION SIGNS R11-4 (ROAD CLOSED TO THRU TRAFFIC) SHALL BE PLACED AT THE INTERSECTING STREETS WHICH ARE CLOSED TO TRAFFIC BECAUSE OF

11. CONSTRUCTION SIGNS W8-9A (SYMBOL FOR UNEVEN PAVEMENT) AND W8-14A (GROOVED PAVEMENT) SHALL BE USED WHEN SUCH PAVEMENT CONDITIONS EXIST. THE PLACEMENT OF THESE SIGNS SHALL BE AS DIRECTED BY THE RE.

12. MOVING WORK AREAS IN A LANE CLOSURE REQUIRE A TRAILER MOUNTED ILLUMINATED FLASHING ARROW TO REMAIN AT THE END OF THE TAPER. THE TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION THAT SHALL MOVE WITH THE WORK AREAS TO KEEP A 70 FEET MIN. AND 150 FEET MAX. BUFFER IN ADVANCE OF EACH WORK AREA. 13. THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE SAFE ACCESS OF CONSTRUCTION VEHICLES THROUGHOUT THE WORK SITE WHERE SPACE CONSTRAINTS PREVENT

THE USE OF LANE CLOSURES. THE PLAN SHALL BE SUBMITTED TO THE RE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. 14. ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY SHALL BE BACKFILLED AND PLACED ON AT LEAST 6H : 1V SLOPE BEFORE THE END OF EACH WORK DAY. OTHER EXCAVATED AREA WITHIN THE CLEAR ZONE SHALL BE BACKFILLED.

15. WHERE REQUIRED, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN CROSSING LOCATIONS AND TYPE AS DIRECTED BY THE RE. 16. BITUMINOUS CONCRETE PLACED DURING THE VARIOUS CONSTRUCTION STAGES SHALL BE TRANSITIONED ON A MINIMUM 20H : 1V SLOPE TO MEET THE ADJACENT EXISTING GRADE AT THE LONGITUDINAL AND TRANSVERSE LIMITS OF THE STAGE CONSTRUCTION AREAS UNLESS OTHERWISE NOTED ON THE STAGE CONSTRUCTION PLANS.

17. THE PLACEMENT AND OR RELOCATION OF PRECAST CONCRETE CURB, CONSTRUCTION BARRIER SHALL BE DONE DURING APPROVED OFF-PEAK HOURS WHEN TRAFFIC MAY BE REDUCED TO ONE LANE IN EACH DIRECTION.

18. CONSTRUCTION ZONE SPEED LIMIT WILL BE DETERMINED BY THE TRAFFIC SIGNAL & SAFETY ENGINEERING, REGIONAL TRAFFIC ENGINEER - WORK ZONE, AT THE TIME OF OR DURING CONSTRUCTION, AS REQUESTED BY THE R.E..

19. THE SPEED LIMIT. R2-1 (BLACK ON WHITE) WITH ADDED WORK ZONE PLATE (BLACK ON ORANGE) SIGNS SHALL BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE TRAFFIC SIGNAL & SAFETY ENGINEERING REGIONAL TRAFFIC ENGINEER – WORK ZONE. 20. THE REDUCED SPEED AHEAD SIGN, W3-5(S) (BLACK ON ORANGE) SHALL BE LOCATED IN ADVANCE OF SPEED LIMIT R2-1 SIGNS WHICH REDUCE THE NORMAL POSTED

SPEED LIMIT THROUGH THE CONSTRUCTION ZONE. 21. TRAFFIC FINES DOUBLED IN WORK AREA R(NJ)5-17(S), 4 FEET BY 2.5 FEET SIGN SHALL BE LOCATED 500 FEET AFTER THE FIRST ADVANCE WARNING SIGN, (W20 SERIES) AT EACH WORK AREA LOCATED WITHIN URBAN AREAS. THIS SIGN SHALL ALSO BE USED ON PROJECTS REQUIRING MOVING OPERATIONS IN WHICH CASE THE SIGN SHALL BE MOUNTED ON A SLOW MOVING CONSTRUCTION VEHICLE.

22. THE FINAL HMA SURFACE PAVEMENT SHALL NOT BE CONSTRUCTED UNTIL THE FINAL STAGE OF THE PROJECT UNLESS OTHERWWISE DIRECTED BY THE RE OR INDICATED ON THE PLANS. MANHOLES AND INLETS SHALL BE SET TO FINISHED GRADE AND TEMPORARY PAVEMENT RAMPS ARE TO BE CONSTRUCTED AROUND THEM WITH A MINIMUM 20H : 1V SLOPE IN ALL DIRECTIONS USING HOT MIX ASPHALT PAVEMENT. THIS TEMPORARY MATERIAL WILL BE REMOVED IMMEDIATELY PRIOR TO PLACING THE SURFACE COURSE.

ORANGE AND WHITE RETROREFLECTIVE STRIPES. IF THERE ARE NON-REFLECTORIZED SPACES

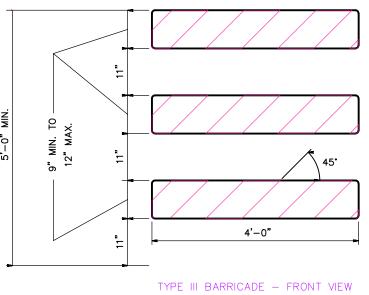
SHEETING, ASTM D-4956 TYPE III

SHEETING, ASTM D-4956 TYPE III

- 23. TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC. SHALL BE PLACED AS SHOWN ON PLANS. SIGNS SHALL NOT BE PLACED WITHOUT ACTUAL LANE CLOSURES AND SHALL BE IMMEDIATELY REMOVED UPON REMOVAL OF THE CLOSURES.
- 24. CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE RE.
- 25. TRAFFIC IMPACT NOTICES AND CHANGES
- WHEN THE FOLLOWING TERMS ARE USED, THE INTENT AND MEANING SHALL BE AS FOLLOWS: i. IMPACTS TO NORMAL TRAFFIC FLOW — WORK THAT REQUIRES A PORTION OF THE PAVED ROADWAY BEING BLOCKED OR CLOSED WITH SAFETY DEVICES OR VEHICLES, INCLUDING, BUT NOT LIMITED TO, FULL OR PARTIAL LANE CLOSURES, FULL OR PARTIAL RAMP CLOSURES, SHOULDER CLOSURES, MOVING OPERATIONS SUCH AS TRAFFIC STRIPING OR SWEEPING, LANE SHIFTS, OR ALTERNATING TRAFFIC. THIS APPLIES EVEN WHEN DETOURS ARE PROVIDED. ii. TEMPORARY LANE CLOSURES - WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH IS ROUTINELY SET UP AND REMOVED ON A DAILY BASIS. III. PERMANENT LANE CLOSURES - WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH REMAINS IN PLACE CONTINUOUSLY FOR 24 HOURS OR MORE.
- B. ADVANCE NOTICES FOR THE INITIAL START OF WORK THAT REQUIRES "IMPACTS TO NORMAL TRAFFIC FLOW", THE CONTRACTOR SHALL NOTIFY THE RE IN WRITING, ON THE ADVANCE FORM TO-103 PROVIDED BY THE DEPARTMENT, OF THE PROPOSED DATE. THE NOTICE SHALL BE SUBMITTED AT LEAST TWENTY-EIGHT CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR DAYS, BEFORE THE PROPOSED DATE. START OF WORK THAT IMPACTS NORMAL TRAFFIC FLOW WILL NOT BE PERMITTED PRIOR TO THE DATE STATED IN THE NOTICE. THE CONTRACTOR SHALL CONFIRM, IN WRITING TO THE RE, THE PROPOSED DATE SEVEN (AND/OR FOURTEEN) CALENDAR DAYS BEFORE STARTING THE ESTABLISHMENT OF THE TRAFFIC CONTROL MEASURES FOR THE TRAFFIC IMPACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RE IF THE PROPOSED ESTABLISHMENT CAN NOT BE COMPLETED ON THE PROPOSED DATE.
- FOR A "PERMANENT LANE CLOSURE", THE CONTRACTOR SHALL NOTIFY THE RE IN WRITING, ON ADVANCE FORM TO-103, OF THE PROPOSED DATE A NEW TRAFFIC PATTERN WILL BE ESTABLISHED. THE NOTICE SHALL BE SUBMITTED AT LEAST TWENTY-EIGHT CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR DAYS, IN ADVANCE OF THE PROPOSED DATE. START OF A NEW TRAFFIC PATTERN WILL NOT BE PERMITTED PRIOR TO THE DATE STATED IN THE NOTICE. THE CONTRACTOR SHALL CONFIRM, IN WRITING TO THE RE, THE PROPOSED DATE OF THE NEW TRAFFIC PATTERN SEVEN (AND/OR FOURTEEN) DAYS BEFORE STARTING TRAFFIC CONTROL MEASURES FOR THE ESTABLISHMENT OF THE NEW PATTERN. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RE IF THE PROPOSED ESTABLISHMENT CAN NOT BE COMPLETED ON THE PROPOSED DATE.

STARTING THE ESTABLISHMENT OF A NEW PERMANENT TRAFFIC PATTERN SHALL BEGIN NO EARLIER THAN 11:00 PM FRIDAY AND SHALL BE COMPLETED AND READY FOR OPERATIONS BY 6:00 PM THE FOLLOWING SUNDAY. THE ESTABLISHMENT SHALL BE COMPLETED IN ACCORDANCE WITH THE LANE CLOSURE HOURS SPECIFIED IN THE CONTRACT.

- ADVANCE NOTICES SENT PRIOR TO THE PRE-CONSTRUCTION MEETING SHALL BE ADDRESSED TO THE CONTACT PERSON AS SPECIFIED IN SUBSECTION 101.04 OF THE SPECIAL PROVISIONS. C. PROGRESS NOTICES
- ALL "IMPACTS TO NORMAL TRAFFIC FLOW" SCHEDULED FOR THE SEVEN DAY PERIOD STARTING ON THE FOLLOWING MONDAY SHALL BE SUBMITTED TO THE RE BY 9:00 AM OF EACH FRIDAY ON WEEKLY FORM TO-101 PROVIDED BY THE DEPARTMENT. EACH DAY OF "TEMPORARY LANE CLOSURES" SHALL BE SUBMITTED TO THE RE BY 9:00 AM THE DAY IN ADVANCE OF THE START OF THOSE OPERATIONS ON DAILY FORM TO-102 PROVIDED BY THE DEPARTMENT.
- "TEMPORARY LANE CLOSURES" FOR WEEKENDS SHALL BE SUBMITTED TO THE RE BY 9:00 AM ON THE MMEDIATELY PRECEDING FRIDAY ON THE DAILY FORM TO-102 PROVIDED BY THE DEPARTMENT. D. CHANGES TO THE SCHEDULED CLOSURES
- SUBMITTED IN WRITING TO THE RE AS FOLLOWS: CHANGES TO THE SCHEDULED HOURS FOR "TEMPORARY LANE CLOSURES" SHALL BE SUBMITTED TO THE R.E. AT LEAST EIGHT CALENDAR DAYS IN ADVANCE OF WHEN THE CHANGE IS PROPOSED TO START. OTHER PROPOSED CHANGES TO "TEMPORARY LANE CLOSURES" AND ALL CHANGES TO "PERMANENT LANE CLOSURES" SHALL BE SUBMITTED TO THE RE AS SPECIFIED IN THE SPECIFICATIONS.



NOTES:

- 1. THE 9" MIN. x 48", OR 12" MAX. x 48" BARRICADE RAILS SHALL BE FABRICATED FROM 0.125" MAX. PLASTIC SHEETING AND SHALL BE ATTACHED, 4 PER RAIL, WITH 1 INCH NO. 14 PAN HEAD METAL SCREWS OR PLASTIC RIVETS. ALL CORNERS SHALL BE ROUNDED.
- ORANGE AND SILVER (WHITE) STRIPES SHALL BE RETROREFLECTIVE SHEETING, ASTM D 4956 TYPE III, AS SHOWN FOR CONSTRUCTION SIGNS. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.
- 3. IF NECESSARY, THE SANDBAGS SHALL BE FABRICATED AND PLACED ACCORDING TO THE MANUFACTURE'S RECOMMENDATION.
- 4. THE FRAMING FOR BARRICADE PANELS SHALL BE NCHRP-350 CRASHED TESTED AND FHWA APPROVED.

BREAKAWAY BARRICADES

TRAFFIC CONTROL PLAN AND NOTES

IMPROVEMENTS TO BATTIN ROAD

BOROUGH OF FAIR HAVEN 748 River Road, Fair Haven, NJ 07704 phone: 732.747.0241 fax: 732.747.6962 website: www.fairhavennj.org

Scale: 1"=30'	Project No. 20-01	
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