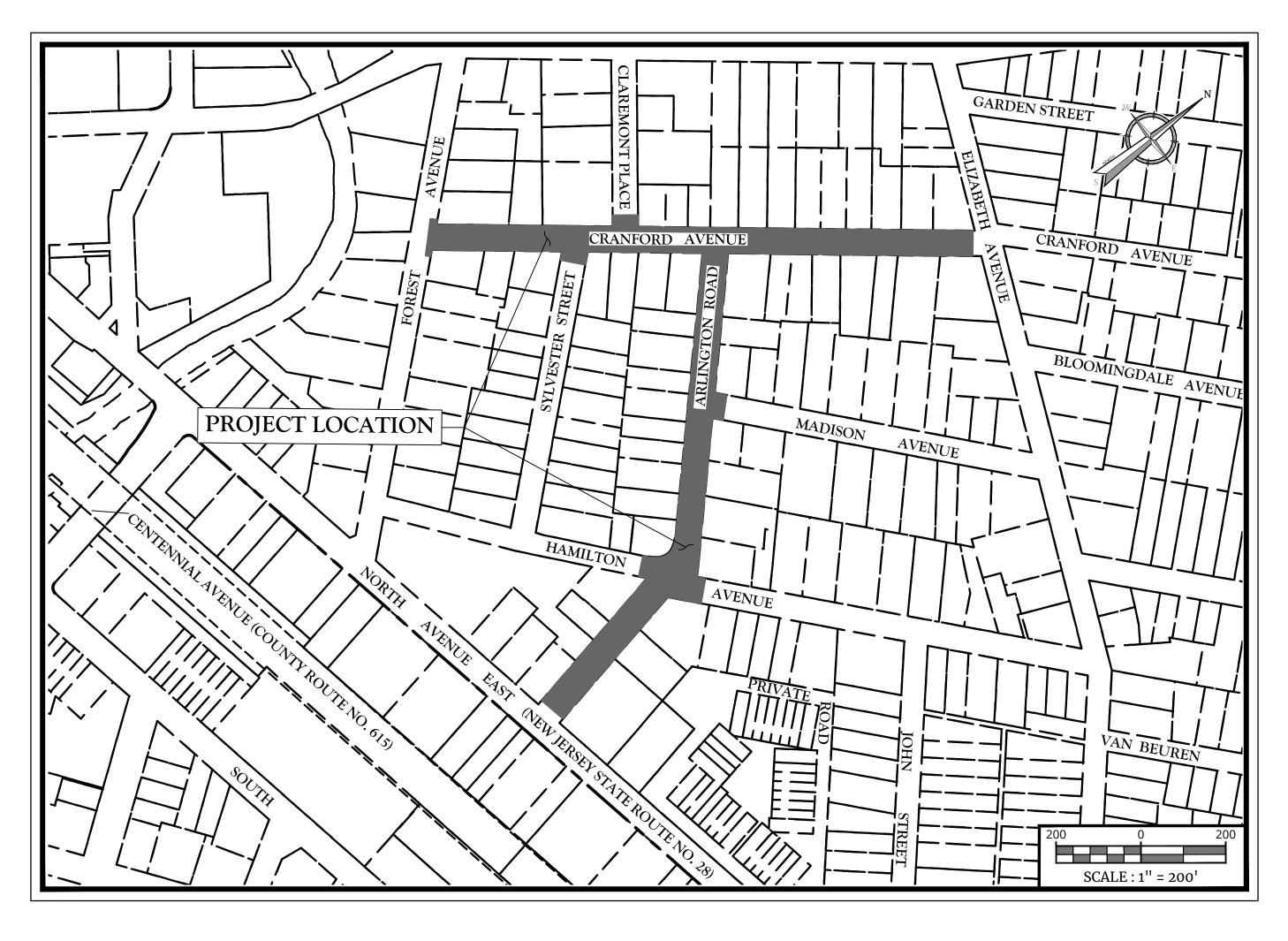
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ļ	UILLI	IES/AUTHORITIES
	CRANFORE ROUND HO PHONE: (90	ENT OF PUBLIC WORKS D DPW DUSE, 364 NORTH AVENUE 08) 709-7217 ERIK HASTRUP
	1800 RAHV PHONE: (90	E SERVICE CABLEVISION OF NJ VAY AVENUE, UNION, NJ 07083 08) 851-2258 GEORGE PALYCA
	520 GREEN PHONE: (90	<u>CE</u> ITOWN GAS COMPANY N LANE, UNION. NJ 07083 08) 662-8321 GREGORY J. BALINT
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	VERIZON C 290 WEST BUILDING PHONE: (9	NE_SERVICE COMMUNICATIONS MOUNT PLEASANT AVENUE, FLOOR G, 4, LIVINGSTON, NJ 07039 73) 422-5156 DARREN CRAY
l		
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ļ		TOWNSHIP OF CRANFORD
I	BRIAN A	NDREWS, MAYOR
		GAREIS, DEPUTY MAYOR/COMMISSIONER
		ACK, COMMISSIONER CE CURRAN, COMMISSIONER
	KATHLE	EN MILLER PRUNTY, COMMISSIONER
		A DONAHUE, TOWNSHIP CLERK RECO, INTERIM ADMINISTRATOR
I	KTAN GI	RECO, INTERIM ADMINISTRATOR
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# **CONSTRUCTION PLANS** FOR **CRANFORD AVENUE** DRAINAGE IMPROVEMENTS TOWNSHIP OF CRANFORD UNION COUNTY, NEW JERSEY



## KEY MAP

NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS 2019 WITH AMENDMENTS THERETO SHALL GOVERN

	<b>Colliers</b> Engineering & Design										
and al whom be cop	ght © 2 I the info the serv pied, reu	ormation ices wer used, dis t the exp	liers En contair e contra closed, ress wr	gineerin ned here acted or distribu itten cor	ig & Des ein is au to whor uted or	ign All R thorized n it is ce relied u	ights Re for use rtified. <sup>-</sup> upon fo	eserved. only by This dra r any o	This dra the par wing ma ther put	ty for Iy not	
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CONSTRUCTION PLANS FOR CRANFORD AVENUE DRAINAGE IMPROVEMENTS											
∥ ⊧	TOWNSHIP OF CRANFORD UNION COUNTY NEW JERSEY MT. ARLINGTON 400 Valley Road, Suite 304 Mt. Arlington, NJ 07856 Phone: 973.398.3110 & Design										
PROJE		D. N MBER: 1082	ATE:	/2022 DRAV C-CV	2 VING N	AWN E AP JAME:	BY:		CKED PC		
SHEET	r nume	BER:			of		39	 Э			

### SURVEY NOTES:

- ALL EXISTING FEATURES DEPICTED ON CRANFORD AVENUE AND ARLINGTON ROAD ARE BASED ON INFORMATION FROM THE SURVEY ENTITLED, "TOPOGRAPHIC SURVEY FOR CRANFORD AVENUE" FOR THE TOWNSHIP OF CRANFORD, PREPARED BY COLLIERS ENGINEERING & DESIGN, DATED 10/31/2022, LATEST REVISION #1 DATED 02/13/2023. SANITARY SEWER INVERTS FOR DOWN STREAM INVERT OF PIPE "E5" AND UPSTREAM INVERT OF PIPE "E6" ARE APPROXIMATE AND BASED ON TOWNSHIP OF CRANFORD SANITARY SEWER MAPS.
- THE HORIZONTAL POSITION OF THIS SURVEY IS BASED ON GPS OBSERVATION AND IS RELATIVE TO NAD 1983 ADJUSTMENT.
- THE ELEVATIONS SHOWN HERON ARE RELATIVE TO N.A.V.D. 1988 ADJUSTMENT
- THE LOCATION OF ALL UNDERGROUND UTILITIES AS SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON VISIBLE ABOVE GROUND STRUCTURES. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES, ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED, THE CONTRACTOR SHALL HAVE ALL UNDERGROUND UTILITIES FIELD VERIFIED BY THE PROPER UTILITY COMPANIES BEFORE ANY CONSTRUCTION BEGINS.

### **GENERAL NOTES:**

- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION RELATED TO THE PROPOSED IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH THE FOLLOWING, UNLESS SPECIFICALLY AMENDED OR SUPPLEMENTED BY CONTRACT DOCUMENTS:
- A. N.J. DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019", AS CURRENTLY AMENDED;
- B. N.J. DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION TRAFFIC CONTROL BRIDGE CONSTRUCTION DETAILS, 2016", AS CURRENTLY AMENDED;
- C. "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED;
- D. CURRENT PREVAILING MUNICIPAL, COUNTY AND/OR STATE AGENCY SPECIFICATIONS, STANDARDS, CONDITIONS AND REQUIREMENTS;
- E. CURRENT PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS;
- F. CURRENT MANUFACTURER'S SPECIFICATIONS, STANDARDS AND REQUIREMENTS; 2. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY INCLUDING PROVISION OF ALL SAFETY DEVICES AND TRAINING REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING THE PROJECT PLANS, SPECIFICATIONS, DETAILS, AND SITE. THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY SITE CONDITIONS DIFFER MATERIALLY FROM THOSE REPRESENTED HEREIN.
- 4. THE CONTRACTOR SHALL OBTAIN PERMITS REQUIRED FOR THE PROPOSED IMPROVEMENTS.
- ALL MATERIALS MUST BE AMERICAN MADE. THE CONTRACTOR MUST PROVIDE THE ENGINEER WITH SHIPPING AND DELIVERY TICKETS/RECEIPTS FOR ALL MATERIALS TO BE USED FOR CONSTRUCTION OF THE PROPOSED
- IMPROVEMENTS. THE CONTRACTOR SHALL OBTAIN SHOP DRAWING APPROVAL PRIOR TO THE INSTALLATION OF EACH ITEM. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL AT LEAST TWO (2) WEEKS PRIOR TO ORDERING MATERIALS.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR ALL STAKEOUT AND LAYOUT, AS NECESSARY, TO CONSTRUCT THE PROPOSED IMPROVEMENTS IN STRICT CONFORMANCE WITH THE PROJECT PLANS, SPECIFICATIONS AND DETAILS.
- ACTUAL FIELD LIMITS OF MILLING, PAVING, CURB AND SIDEWALK WORK WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- NO "SIDE PROJECTS" FOR RESIDENTS, UTILITIES OR BUSINESS MAY BE CONSTRUCTED WITH MATERIAL PURCHASED FOR THE COMPLETION OF THE PROPOSED IMPROVEMENTS SHOWN HEREIN. 9. 10. THE CONTRACTOR MUST REVIEW AND AGREE TO AS-BUILT QUANTITIES WITH THE ENGINEER ON A WEEKLY BASIS.
- 11. THE ENGINEER MUST BE CONTACTED IMMEDIATELY UPON THE CONTRACTOR RECEIVING A COMPLAINT FROM ANY PERSON WITHIN THE PROJECT AREA OR MUNICIPAL OFFICIAL.

### UTILITY NOTES:

- UNDERGROUND UTILITIES AND FEATURES WITHIN CRANFORD AVENUE AND ARLINGTON ROAD WERE MAPPED USING RADIO FREQUENCY PIPE AND CABLE LOCATORS (RFL) AND GROUND PENETRATING RADAR (GPR). OTHER BURIED UTILITIES MAY BE PRESENT BUT WERE NOT DETECTED DUE TO LIMITATIONS OF THE RFL AND GPR SYSTEMS, UNFAVORABLE SOIL CONDITIONS, SITE ACCESS, AND/OR DENSE UTILITY INFRASTRUCTURE; THEREFORE, 100% DETECTION IS NOT GUARANTEED. CAUTION SHOULD BE USED WHEN EXCAVATING IN THE VICINITY OF MAPPED FEATURES.
- POSITION OF GEOPHYSICAL FEATURES CANNOT BE GUARANTEED WITHOUT EXPOSURE.
- TARGETS WITH LATERAL EXTENTS OF LESS THAN 3 FEET AS OBSERVED IN GEOPHYSICAL DATA WERE NOT MAPPED.
- PLOTTED UTILITY POSITIONS AND DEPTHS REPRESENT LOCATION OF MOST APPROPRIATE INTERPRETED GEOPHYSICAL RESPONSE. THIS RESPONSE IS GENERALLY PRESENT OVER THE TOP CENTER OF THE TARGET BUT MAY BE LOCATED OFF-CENTER DEPENDING ON SIGNAL QUALITY AND THE EFFECTS OF LOCAL INTERFERENCE. FEATURE MAY BE WIDER THAN PLOTTED LINE (E.G. DUCT BANKS, LARGE CONDUIT). UTILITIES MAY BE INSTALLED WITHIN A DUCT BANK. DUE TO THE LIMITATIONS OF GEOPHYSICAL EQUIPMENT AND THE LOCATION OF FEATURES WITHIN THE DUCT BANK, THE ACTUAL HORIZONTAL AND VERTICAL
- DIMENSIONS OF THE DUCT BANK SYSTEM (AS OBSERVED IN GEOPHYSICAL DATA) MAY VARY. DUE TO LIMITATIONS OF GEOPHYSICAL METHODS, IT IS NOT ALWAYS POSSIBLE TO DISCRIMINATE BETWEEN UTILITIES AND OTHER BURIED FEATURES; THEREFORE IT IS POSSIBLE THAT SOME PLOTTED FEATURES MAY
- REPRESENT OBJECTS OTHER THAN UTILITIES. DUE TO VARYING SOIL CONDITIONS, POSSIBLE CHANGES IN UTILITY MATERIAL, AND OTHER FACTORS, SOME UNDERGROUND UTILITIES COULD NOT BE TRACED ENTIRELY WITHIN THE PROJECT LIMITS. THE UTILITY MAY
- CONTINUE, BUT SINCE IT WAS NOT OBSERVED IN THE GEOPHYSICAL DATA BEYOND THESE POINTS, IT COULD NOT BE MAPPED. DEPTHS SHOWN FOR UTILITIES ARE IN FEET BELOW EXISTING GROUND SURFACE AT TIME OF SURVEY. AS RFLS CANNOT PROVIDE RELIABLE DETPH INFORMATION, DEPTHS ARE NOT PROVIDED FOR UTILITIES LOCATED WIT
- RFLS, BUT NOT DETECTED IN THE GPR DATA. DUE TO THE SITE SPECIFIC CONDITIONS, GPR SIGNAL PENETRATION DEPTH IS APPROXIMATELY 4 FEET. UTILITIES BELOW THIS DEPTH WERE NOT CONSISTENTLY DETECTED WITH GPR. THERE MAY BE
- PRESENT AT THE SITE BELOW THIS DEPTH THAT WERE NOT DETECTED AND THEREFORE ARE NOT PLOTTED ON THESE MAPS. 10. ONLY THOSE AREAS DENOTED WITHIN THE PROJECT SITE LIMITS WERE INVESTIGATED WITH GEOPHYSICAL METHODS. NO CLAIMS TO UTILITY POSITION ARE MADE OUTSIDE OF THESE BOUNDARIES
- 11. SURFACE OBSTRUCTIONS SUCH AS UTILITY POLES AND HEAVY VEGETATION MAY HAVE LIMITED THE DATA COLLECTION AREA.
- 12. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ONE-CALL SERVICES AS REQUIRED BY STATE AND/OR LOCAL ORDINANCES PRIOR TO ANY EXCAVATION ACTIVITIES.
- 13. NOT ALL UTILITY POLES, UTILITY VALVES AND UTILITY LINES ARE SHOWN ON THE PLAN. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL FOR A UTILITY MARK-OUT PRIOR TO THE START OF CONSTRUCTION (CALL I-800-272-1000)
- UTILITY RELOCATIONS SHOWN ON THE PLAN, IF ANY, ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT REPRESENT ALL REQUIRED WORK. THE CONTRACTOR IS RESPONSIBLE FOR COORI 15. UTILITY COMPANIES/AUTHORITIES IMPACTED BY THE PROPOSED WORK AND PERFORMING UTILITY RELOCATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERTINENT UTILITY COMPAN SEPARATE PAYMENT SHALL BE MADE FOR COORDINATING AND PERFORMING UTILITY RELOCATIONS.
- ALL UTILITY MANHOLES, VALVE BOXES, CLEANOUTS, METERS, ETC. SHALL BE RESET BY THE CONTRACTOR TO MEET PROPOSED ROAD, SIDEWALK AND DRIVEWAY GRADES. THE CONTRACTOR SHALI 16. IMPACTED UTILITY COMPANIES/AUTHORITIES AS NECESSARY.
- 17. WATER VALVE BOXES GAS VALVE BOXES WITHIN THE ROADWAY SHALL BE RESET TO MEET PROPOSED GRADES.
- MISCELLANEOUS UTILITY EQUIPMENT WITHIN THE DRIVEWAYS SHALL BE RESET TO MEET PROPOSED GRADES DURING THE PROGRESS OF CURB, SIDEWALK AND DRIVEWAY CONSTRUCTION. NO SEP. 18. BE MADE FOR THE RESETTING OF MISCELLANEOUS UTILITY EQUIPMENT, INCLUDING VALVE BOXES, CLEANOUTS, METERS, ETC. WITHIN SIDEWALK AND DRIVEWAY AREAS.
- 19. THE CONTRACTOR SHALL TAKE PRECAUTION WHEN WORKING ADJACENT TO UTILITIES AND TEMPORARILY SUPPORT UTILITY POLES, IF REQUIRED, DURING THE PROGRESS OF WORK.
- 20. THE CONTRACTOR SHALL CLEAN AND MAINTAIN ALL STORM SEWER STRUCTURES, AS NECESSARY, FOR THE DURATION OF THE PROJECT.

### WORKING HOURS:

- THE CONTRACTOR SHALL WORK ON WEEKDAYS ONLY. APPROVAL TO WORK ON WEEKENDS MUST BE GRANTED BY THE LOCAL POLICE DEPARTMENT AND OWNER
- THE CONTRACTOR SHALL NOT COMMENCE ANY CONSTRUCTION RELATED ACTIVITIES BEFORE 7 AM ON WEEKDAYS. ALL CONSTRUCTION RELATED ACTIVITIES MUST BE FINISHED AND THE SITE SH SECURED BY 5 PM DAILY.

### SIGNS, STRIPING AND MARKING NOTES:

- I. ALL SIGNAGE, TRAFFIC STRIPING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), AS CURRENTLY AMENDED.
- 2. ALL EXISTING SIGNS SHALL BE RESET/RELOCATED WITH NEW POSTS. SIGNS SHALL BE RESET USING EXISTING SIGN BLADES WITH NEW SIGN POSTS PLACED IN SLEEVES. SLEEVES FOR NEW SIGN POSTS

### MILLING AND PAVING NOTES:

- I. THE CONTRACTOR MUST PROVIDE A SMOOTH SAWCUT EDGE WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT.
- AFTER MILLING OPERATIONS AND PRIOR TO PAVING, THE CONTRACTOR MUST ALLOW ADEQUATE TIME FOR THE ENGINEER TO INSPECT THE MILLED SURFACE TO EVALUATE THE NEED FOR REPAIR IF REPAIRS IN THE PAVEMENT BASE ARE NECESSARY AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL NOT SCHEDULE OR COMMENCE PAVING OPERATIONS UNTIL SUCH TIME THAT ALL PAVEMENT BASE ARE COMPLETE
- THE CONTRACTOR SHALL MARK ALL RAISED UTILITY MANHOLES, INLETS AND VALVE BOXES THAT ARE EXPOSED AS A RESULT OF MILLING. IN ADDITION, THE CONTRACTOR SHALL INSTALL TEMPOR
- AROUND RAISED UTILITIES AS DIRECTED BY THE ENGINEER WHERE SUCH UTILITIES MAY BE IN CONFLICT WITH VEHICULAR AND PEDESTRIAN TRAFFIC. ALL JOINTS BETWEEN EXISTING AND PROPOSED ASPHALT SHALL BE SEALED WITHIN 48 HOURS OF PAVING.

### MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

- THE CONTRACTOR SHALL COORDINATE ALL TRAFFIC CONTROL MEASURES WITH THE LOCAL POLICE DEPARTMENT AND OWNER. TRAFFIC CONTROL DETAILS PROVIDED HEREIN ARE TYPICAL AND MODIFICATION BY THE LOCAL POLICE DEPARTMENT AND OWNER.
- THE CONTRACTOR SHALL MAKE PROVISIONS FOR MATERIAL AND EQUIPMENT STORAGE. NO EQUIPMENT OR MATERIALS SHALL BE STORED WITHIN THE R.O.W. WITHOUT EXPRESS WRITTEN CONSE POLICE DEPARTMENT AND OWNER.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL SCHEDULE AND STAGING PLAN TO THE LOCAL POLICE DEPARTMENT AND OWNER FOR REVIEW AND APPROVAL. THE PLAN N THE LOCAL POLICE DEPARTMENT AND OWNER PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND LOCAL POLICE DEPARTMENT SEVENTY-TWO (72) HOURS PRIOR TO THE START OF ANY WORK.
- THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL POLICE DEPARTMENT TO DETERMINE THE NEED FOR POLICE TRAFFIC DIRECTORS. THE CONTRACTOR SHALL PROVIDE THE LOCAL POLIC
- ONE (I) WEEK NOTICE PRIOR TO REQUESTING POLICE TRAFFIC DIRECTORS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PLACING TEMPORARY NO PARKING SIGNS. SIGNS MUST BE OBTAINED FROM THE LOCAL POLICE DEPARTMENT. TEMPORARY NO PARKING S AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF CONSTRUCTION.

### SOIL EROSION AND TREE PROTECTION NOTES:

- THE CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH THE STANDARDS FOR SOIL CONTROL MEASURES IN NEW JERSEY.
- 2. INLET FILTERS ARE TO BE INSTALLED ON ALL EXISTING AND NEW INLETS WITHIN THE PROJECT LIMITS AND IMMEDIATELY ADJACENT TO PROJECT LIMITS.
- SILT FENCE SHALL BE INSTALLED AS DIRECTED IN THE FIELD BY THE ENGINEER, AS NECESSARY.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING DUST CONTROL MEASURES, AS NECESSARY. ALL VEHICLES SHALL BE CLEAN AND ALL ROADWAYS SHALL BE MAINTAINED TO AVOID THE CONTRACTOR SHALL PROTECT ALL TREES SCHEDULED TO REMAIN DURING CONSTRUCTION. DAMAGE TO EXISTING TREES WILL BE EVALUATED BY THE OWNER AND ENGINEER. DAMAGED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- WHERE EXISTING TREES AND ROOT SYSTEMS MAY CONFLICT WITH THE PROPOSED IMPROVEMENTS, THE CONTRACTOR MUST RETAIN A CERTIFIED TREE EXPERT TO EVALUATE TREES IN QUESTION BE IN WRITING AND SHALL ACCURATELY IDENTIFY THE TREE IN QUESTION BY STATION AND OFFSET (LEFT OR RIGHT). ALL EVALUATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. TREES THAT ARE TO REMAIN, WHERE IT IS DETERMINED THAT ROOT CUTTING MAY SEVERELY DAMAGE THE TREE, SHALL HAVE A CURB BREAK AND STEEL CURB FACE PLATE INSTALLED AS DIRECTEI
- 8. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF-SITE. NO EXCAVATED MATERIAL SHALL BE STOCKPILED AND STORED WITHIN THE PROJECT LIMITS.

### DEMOLITION AND CONSTRUCTION NOTES:

- ALL EXCAVATED MATERIALS ARE TO BE DISPOSED OF IN ACCORDANCE WITH APPROVED NJDOT AND NJDEP MEANS AND METHODS. THE CONTRACTOR MUST NOT DEPOSIT EXCESS MATERIALS W LIMITS WITHOUT EXPRESS PERMISSION OF THE OWNER.
- 2. ALL EXCAVATED AND DEMOLISHED MATERIALS, DEBRIS, AND EQUIPMENT, INCLUDING STONE, TOPSOIL, TREES, BLOCK AND CONCRETE FORMS, MUST BE REMOVED FROM THE PROJECT AREA AT TH DAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER AND LOCAL POLICE DEPARTMENT.
- THE CONTRACTOR SHALL NOTE THAT ROADWAY BASE MATERIAL MAY CONSIST OF COBBLESTONES, CONCRETE AND/OR ASPHALT. NO ADDITIONAL PAYMENTS WILL BE MADE TO CONTRACTOR EQUIPMENT OR ADDITIONAL LABOR REQUIRED TO MAKE IMPROVEMENTS AS DESCRIBED ON PLANS DUE TO VARIATIONS IN ROADWAY BASE MATERIALS.
- ALL EXISTING GRATES AND CASTINGS ARE THE PROPERTY OF THE MUNICIPALITY OR RESPECTIVE UTILITY AUTHORITY. ALL EXISTING GRATES AND CASTINGS THAT ARE TO BE REPLACED AS A PART IMPROVEMENTS SHALL BE RETURNED TO THE MUNICIPALITY OR RESPECTIVE UTILITY AUTHORITY.
- THE CONTRACTOR MUST PROTECT CONCRETE UNTIL CONCRETE IS CURED. DAMAGED AND VANDALIZED CONCRETE SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO RECYCLED AGGREGATE (CONCRETE OR ASPHALT) MUST BE NJDOT APPROVED. CONTRACTOR MUST PROVIDE DOCUMENTATION FOR APPROVED MATERIAL PRIOR TO PLACEMENT
- 7. THE CONTRACTOR SHALL RESET ALL RAILINGS, GATES AND FENCES AS REQUIRED TO COMPLETE THE PROPOSED IMPROVEMENTS
- 8. THE CONTRACTOR IS RESPONSIBLE TO REPLACE/RESET ANY SPRINKLERS DAMAGED/DISTURBED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

### ACCESS TO RESIDENCES AND BUSINESSES:

- THE CONTRACTOR SHALL MAINTAIN SAFE PEDESTRIAN AND VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES FOR THE DURATION OF THE PROJECT.
- DURING DEMOLITION AND IMMEDIATELY AFTER POURING CONCRETE, THE CONTRACTOR MUST PLACE WOOD PLANKS, AT LEAST TWO (2) FT. WIDE, AT EACH ADJACENT BUILDING ENTRANCE TO ACCESS. PEDESTRIANS CANNOT BE EXPECTED TO CROSS OVER STONE, DIRT OR OTHER DEMOLISHED MATERIAL WITHOUT PLANKS. THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE THE SIT WOODEN ACCESS PLANKS TO PROVIDE SAFE ACCESS TO RESIDENCES AND BUSINESSES.
- THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION. THE CONTRACTOR SHALL TEMPORARILY INSTALL AND MAINTAIN DENSE GRADED AGGRE ASPHALT TO PROVIDE A RIDING SURFACE FOR VEHICLE ACCESS TO EACH PROPERTY DURING CONSTRUCTION.
- 4. THE CONTRACTOR MUST ASSURE ACCESS FOR EMERGENCY VEHICLES AND GARBAGE COLLECTION VENDORS FOR THE DURATION OF THE PROJECT.
- 5. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESSIBLE CURB RAMPS WITH HAND RAILS WHEN EXISTING ACCESSIBLE ACCESS IS REMOVED OR LIMITED DUE TO CONSTRUCTION. 6. NO SEPARATE PAYMENT SHALL BE MADE FOR THE PROVISION OF SAFE PEDESTRIAN AND VEHICULAR ACCESS AS DESCRIBED ABOVE AND AS DIRECTED IN THE FIELD BY THE ENGINEER

### FINAL CLEAN UP AND PROJECT ACCEPTANCE:

- I. PRIOR TO FINAL ACCEPTANCE, ALL PROPERTY CORNERS OR MONUMENTS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY A NEW JERSEY LICENSED LAND SURVEYOR AT TO THE OWNER.
- 2. THE CONTRACTOR MUST REPLACE ANY DAMAGED CONCRETE CURB AND SIDEWALK BEFORE ACCEPTANCE OF THE PROJECT BY THE OWNER.
- 3. ALL AREAS OUTSIDE OF THE PROJECT LIMITS THAT ARE DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER PRIOR TO PROJEC I ACTIVITIES SHALL BE RESTORED BY TOPSOILING, SEEDING, FERTILIZING AND MULCHING.

	4.	ALL GRASSED AREAS DISTURBED BY CONSTRUCTION	1 A
	QU	ANTITIES:	
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Y BE OTHER UTILITIES	PAY ITEM NO.	BASE BID - CRANFORD AVENUE DRAINAGE IMPROVEMENTS	UNIT	TOTAL BAS
RIES.	1	SOIL EROSION AND SEDIMENT CONTROL	LS	
	2	POLICE TRAFFIC DIRECTORS	MAN HOUR	000
	3	TRAFFIC CONTROL MEASURES AND DEVICES	LS	960
	4	FUEL PRICE ADJUSTMENT	LS DOLLAR	700
	5	ASPHALT PRICE ADJUSTMENT	DOLLAR	
ORDINATING WITH ALL PANIES/AUTHORITIES. NO	6	CLEARING SITE	LS	1,200
	7	EXCAVATION, TEST PIT	CY	95
IALL COORDINATE WITH	8	EXCAVATION, TEST PTI EXCAVATION, UNCLASSIFIED	CY	1,526
	9	REMOVAL OF PAVEMENT	SY	6,855
	10			0,855
SEPARATE PAYMENT SHALL		EXCAVATION, BORROW EXCAVATION AND GRADING, UNCLASSIFIED	SY	6 977
	11	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	CY	6,877 93
		DENSE-GRADED AGGREGATE BASE COURSE, VARIABLE THICKNESS	SY	
	13 14	HMA MILLING, 3" OR LESS	GALLON	2,424
				1,470
	15	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	1,545
	16	HOT MIX ASPHALT 19M64 BASE COURSE		1,847
SHALL BE CLEANED AND	17	MODULAR BLOCK RETAINING WALL WITH MATCHING CAP	SF (FACE)	172
	18			1,251
	19			24
	20			10
	21			3
	22	RECONSTRUCTED INLET, TYPE B, USING EXISTING CASTING (IF/WHERE)		2
TS SHALL BE FILLED.	23	BICYCLE SAFE GRATE (PHASE II STORMWATER COMPLIANT GRATE)		4
	24			2
	25			2
	26			4
AIRS IN THE PAVEMENT BASE.	27		SY OX	396
ALL REPAIRS IN THE	28		SY	376
	29	CONCRETE DRIVEWAY, REINFORCED, 6" THICK	<u>SY</u>	232
PORARY PAVEMENT RAMPS	30		SY	22
	31	RESET BLUE STONE SIDEWALK	<u>SY</u>	121
	32	RESET PAVER	<u>SY</u>	31
	33	9" X 18" CONCRETE VERTICAL CURB		191
	34	9" X 18" - 24" CONCRETE VERTICAL CURB		43
ND SUBJECT TO	35			5,063
	36	TRAFFIC STRIPES, 4"		50
NSENT FROM THE LOCAL	37	TRAFFIC MARKING LINES, 6"		929
N MUST BE APPROVED BY	38	TRAFFIC MARKING LINES, 24"		133
	39	RECONSTRUCTED MANHOLE, SANITARY SEWER, USING EXISTING CASTING (IF/WHERE)		2
	40	RESET MANHOLE, SANITARY SEWER, USING EXISTING CASTING		/
LICE DEPARTMENT AT LEAST	41	6" SDR 26 PVC SANITARY SEWER PIPE (IF/WHERE)		70
	42	RECONNECT SANITARY SEWER LATERAL WITH NEW PIPE		7
IG SIGNS MUST BE POSTED	43	PROTECTIVE STEEL PLATE		1,062
	44		<u>SY</u>	3,314
	45		SY	227
	46	FERTILIZING AND SEEDING, TYPE ERNMIX-106	SY	3,314
	47	STRAW MULCHING	SY	3,314

DS FOR SOIL EROSION A	and sediment	EXISTING P	ROPOSED
		$  \underbrace{ $	- +
		RIGHT OF WAY LINE	
D TO AVOID DUST POL DAMAGED TREES WILI		PROPERTY LINE	
		— — — — — EDGE OF PAVEMENT —	FACE
N QUESTION. ALL EVAL REVIEW.	UATIONS SHALL	BACK CURB	BACK
AS DIRECTED BY THE E	NGINEER.	SIDEWALK	
		XX	X
			~~~~~
1ATERIALS WITHIN THE	MUNICIPAL	ROADWAY SIGNS	
AREA AT THE CONCLU	USION OF EACH	WETLAND LINE	
ONTRACTOR FOR DAM	IAGES TO	BUD MUNICIPAL BOUNDARY LINE	
D AS A PART OF THE PI		'E' INLET	
D AS A PART OF THE PI	KOPOSED		
AL COST TO THE OWN	ER.		S
		FLARED END SECTION	
		HEADWALL	
			- 74
		DIRECTION OF OVERLAND FLOW	_/- <b>&gt;</b>
NTRANCE TO ALLOW I EAVE THE SITE WITHOU			x TC 29.0
EAVE THE SITE WITHOU	UT PLACING	× BC 29.0 BOTTOM OF CURB ELEVATION	× BC 29.0
ADED AGGREGATE OR I	HOT MIX		- CATV
			— G ——
			— Т ——— — Е ———
		SANITARY PIPE	
JRVEYOR AT NO ADDI	TIONAL COST		
R TO PROJECT ACCEPT	ANCE.	STALL COUNT	_ (IO)
			л (С V
		DEPRESSED CURB AND ADA RAMP DIRECTION OF TRAFFIC FLOW	нс '
TAL BASE BID		DEPRESSED CURB - 9" X 18" CONCRETE	
QUANTITY		VERTICAL CURB (WITH 2' FULL DEPTH REPAIR)	
<u> </u>		FULL DEPTH CONCRETE PAVEMENT REPAIR, HMA	
1		ASPHALT ROAD CONSTRUCTED VIA MILL AND PAVE OR FULL DEPTH RECONSTRUCTION	
700 1,200	-	(AS REQUIRED)	
1		ASPHALT OVERLAY	
95 1,526		CONCRETE SIDEWALK, 4" THICK	· · · · · · · · · · · · · · · · · · ·
6,855		CONCRETE DRIVEWAY, REINFORCED, 6" THICK	
1	-	HOT MIX ASPHALT DRIVEWAY, 6" THICK	
<u>6,877</u> 93	-	RESET MANHOLE	$\bigotimes^{\bigcirc}$
2,424		RECONSTRUCT MANHOLE	
1,470 1,545	-		
1,847	-		
<u> </u>		RESET EXISTING INLET AND INSTALL NEW CURB PIECE (NJDEP TYPE 'N' ECO)	
24		CURB PIECE (NJDEP TYPE 'N' ECO)	
10 3		RESET EXISTING INLET AND INSTALLED NEW BICYCLE SAFE GRATE	
2 4		RECONSTRUCT INLET, TYPE B, USING EXISTING CASTING	
2 2		RESET GAS VALVE	€G
4		RESET WATER VALVE	<b>●</b> W
396 376	-	ADA RAMP SECTION	4
232		RESTORE EXISTING GRASS AREAS	
22	-	EXISTING PIPE TO BE REMOVED $\cdot X$	XX · TBR
121	1	1	

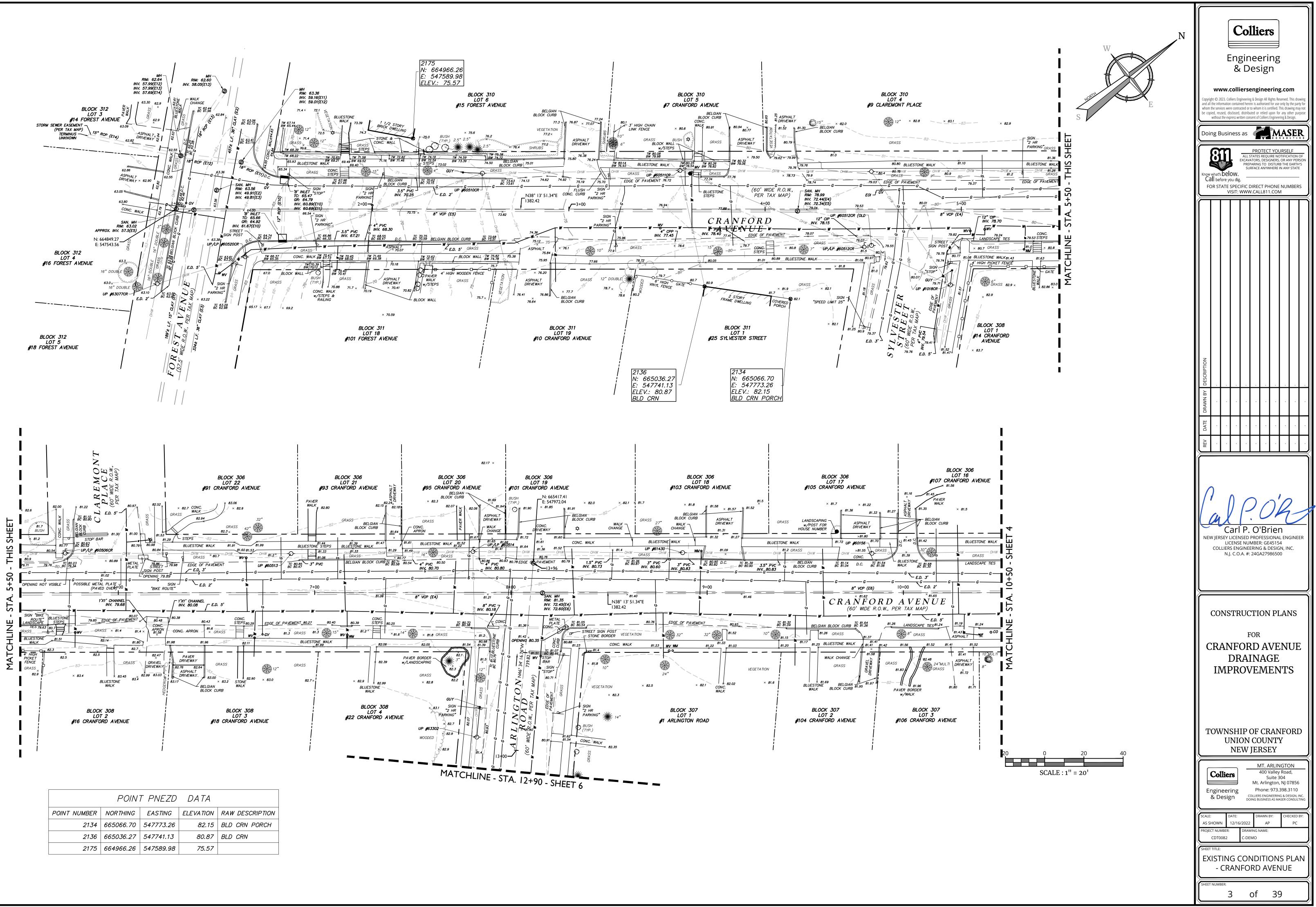
43 5,063

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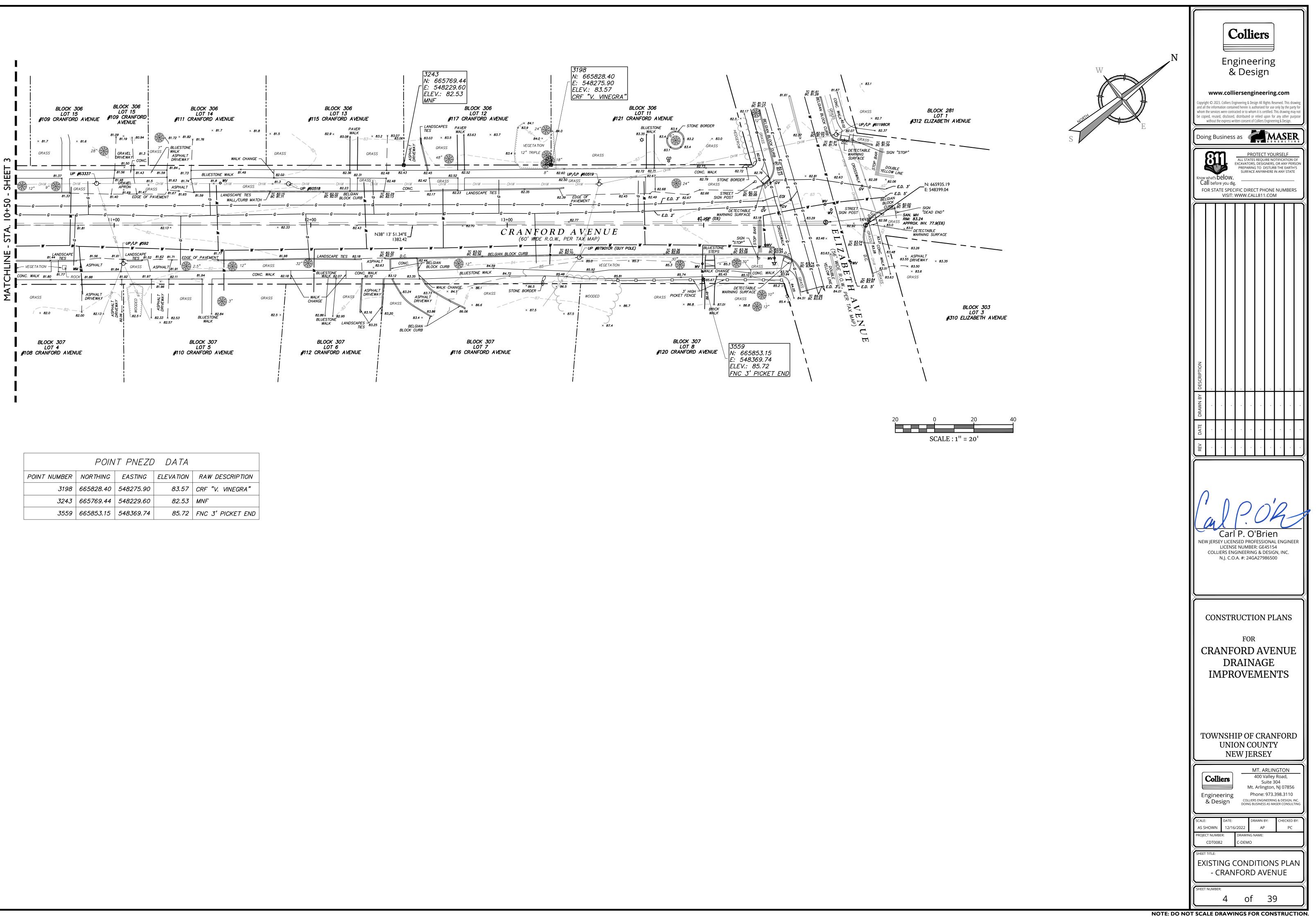
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TOWNSHIP OF CRANFORD UNION COUNTY NEW JERSEY										
Colliers         Engineering & Design         SCALE:         AS SHOWN         12/16/2022         PROJECT NUMBER:										
CDT0082 C-CVER SHEET TITLE: GENERAL NOTES & QUANTITIES										
sheet NUMBER: 2 of 39										

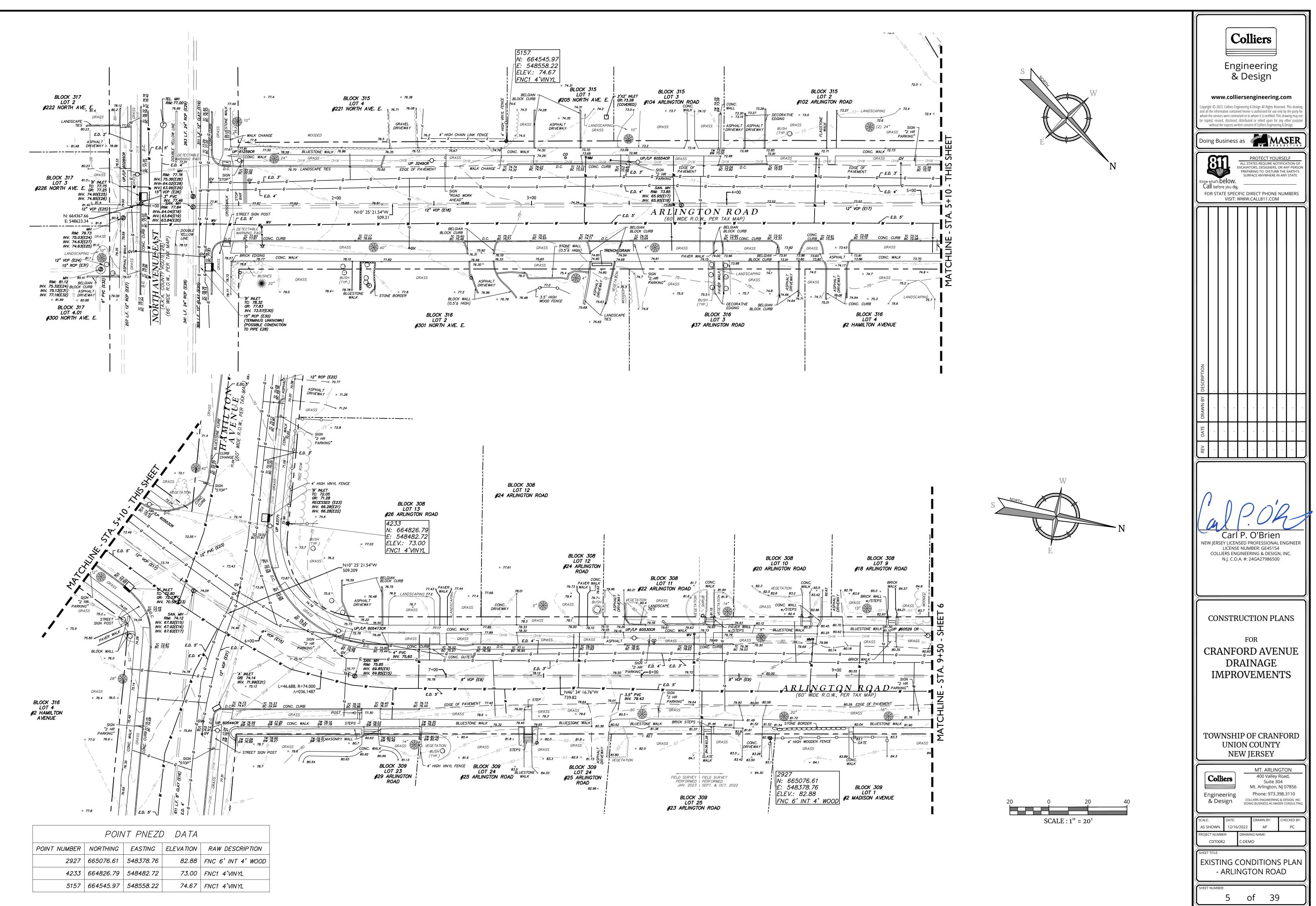


POINT PNEZDDATAPOINT NUMBERNORTHINGEASTINGELEVATIONRAW DESCRIPTION2134665066.70547773.2682.15BLD CRN PORCH2136665036.27547741.1380.87BLD CRN								
POINT NUMBER	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION				
2134	665066.70	547773.26	82.15	BLD CRN PORCH				
2136	665036.27	547741.13	80.87	BLD CRN				
2175	664966.26	547589.98	75.57					

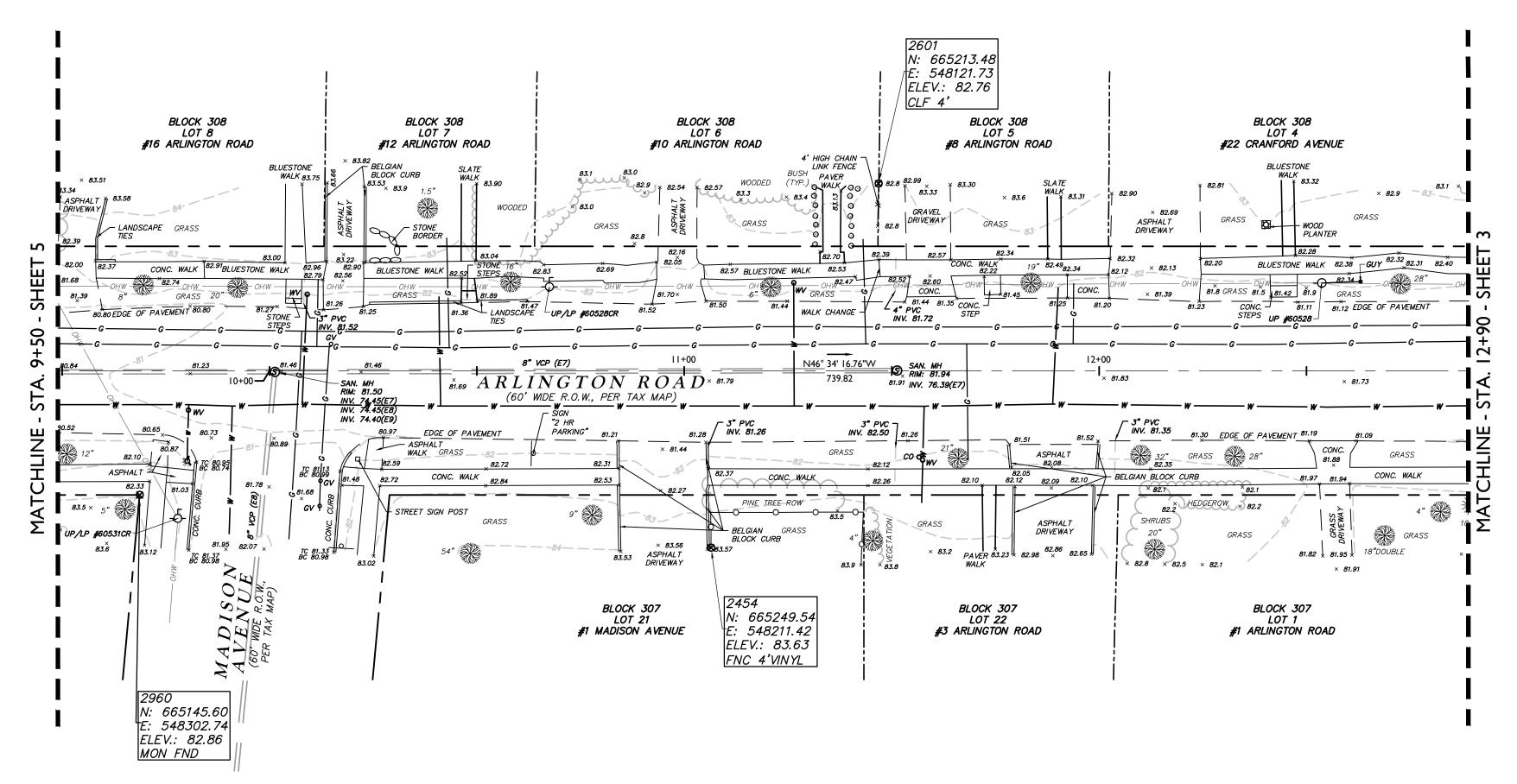
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



POINT PNEZD DATA										
POINT NUMBER	RAW DESCRIPTION									
3198	665828.40	548275.90	83.57	CRF "V. VINEGRA"						
3243	665769.44	548229.60	82.53	MNF						
3559	665853.15	548369.74	<i>85.72</i>	FNC 3' PICKET END						

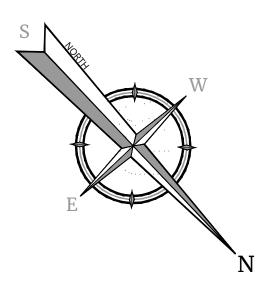


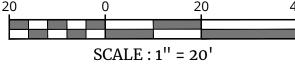
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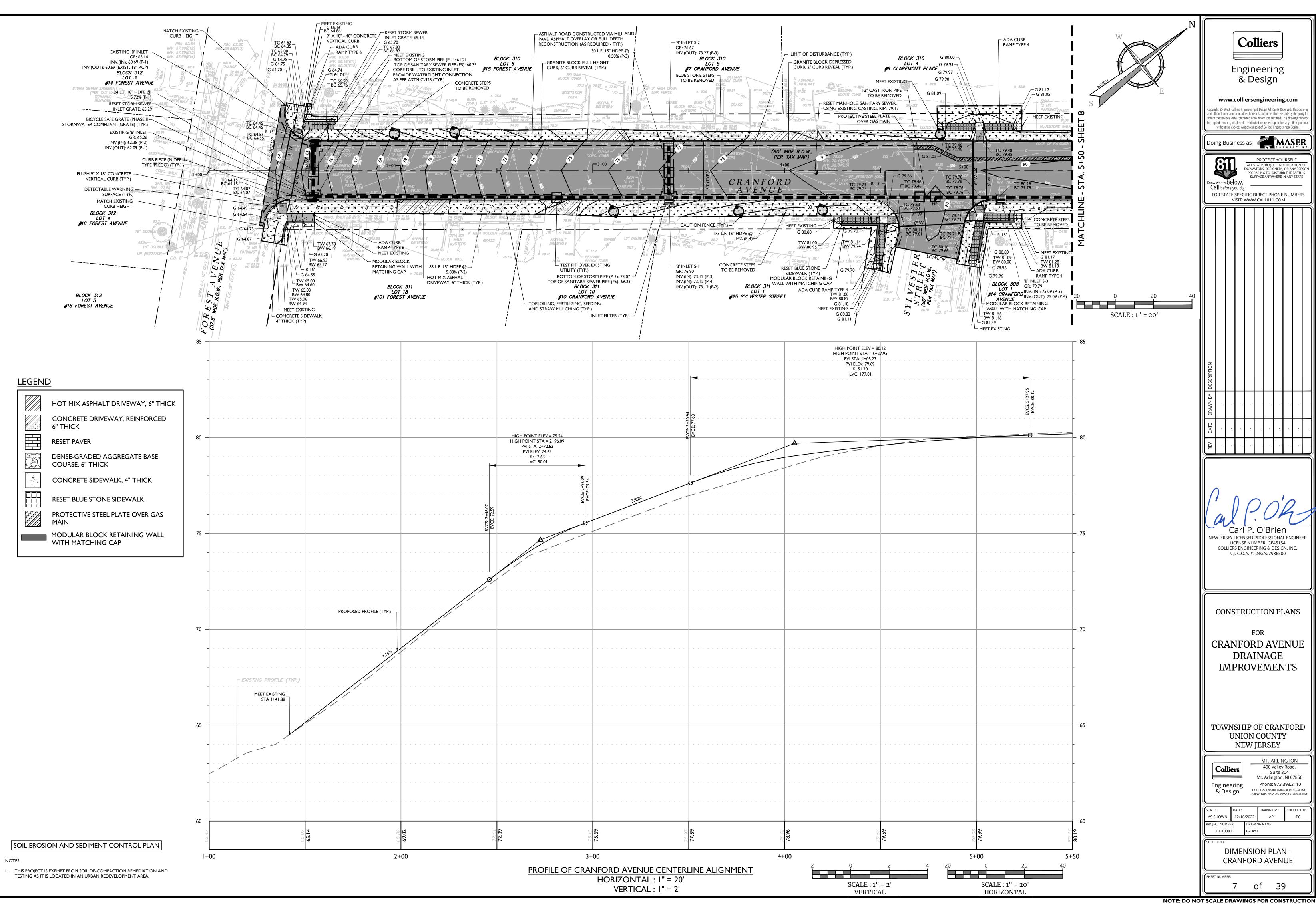
[				
	POIN	t pnezd	DATA	
POINT NUMBER	NORTHING	EASTING	ELE VA TION	RAW DESCRIPTION
2454	665249.54	548211.42	83.63	FNC 4'VINYL
2601	665213.48	548121.73	82.76	CLF 4'
2960	665145.60	548302.74	82.86	MON FND

sh 17932\C-DEMO.dwg\C-6-DEMO

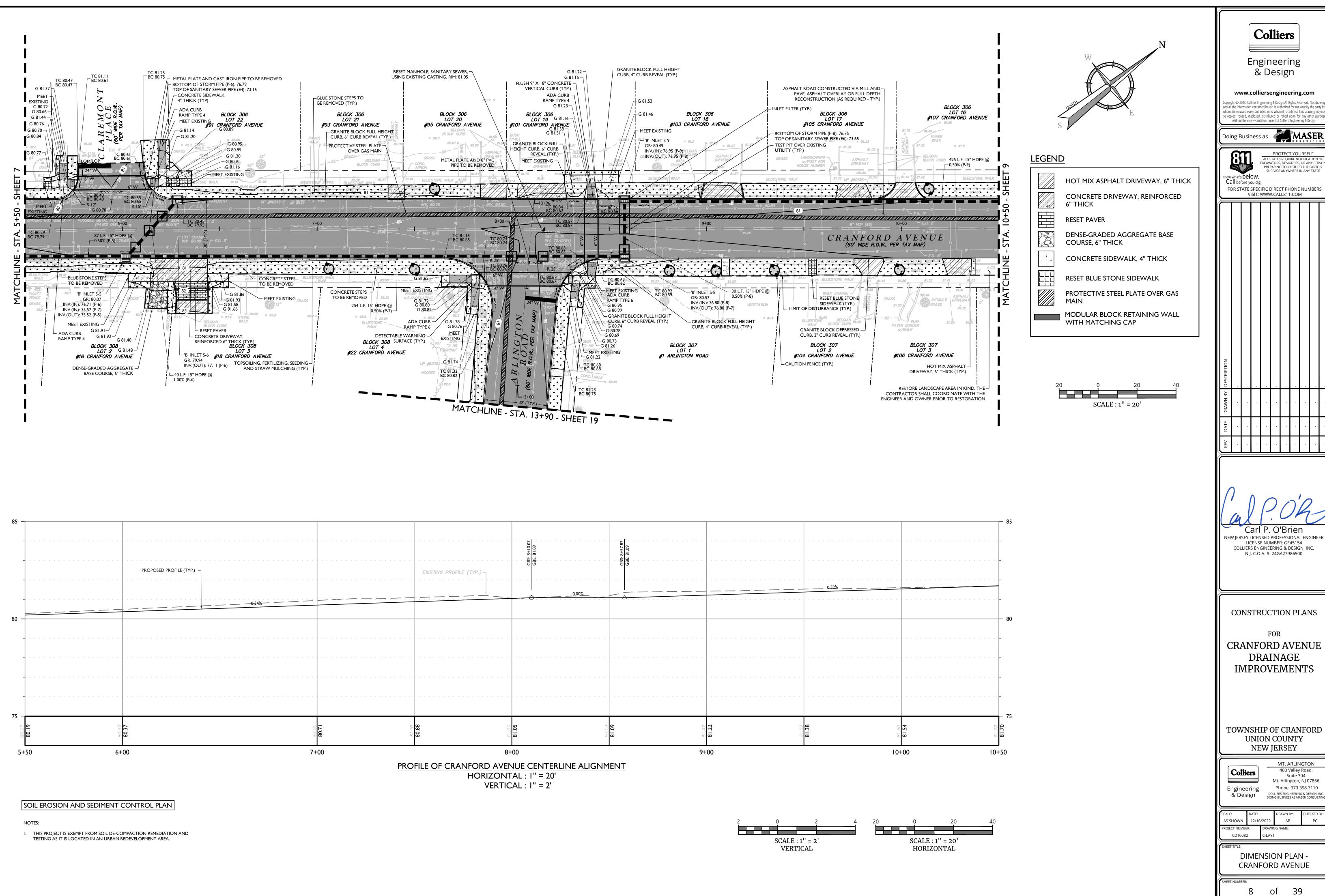


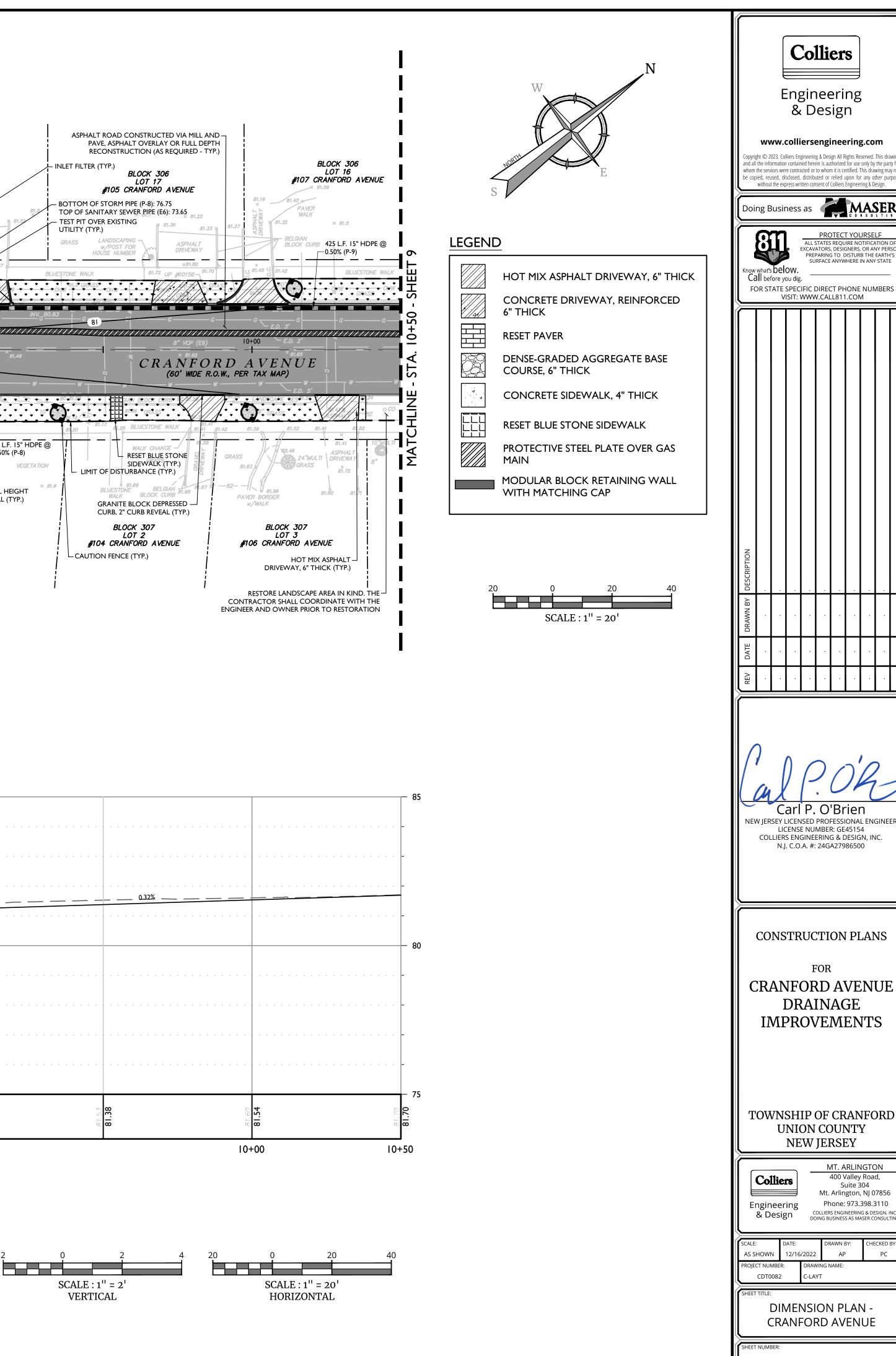


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AS SHOWN 12/16/2022 AP PC PROJECT NUMBER: CDT0082 C-DEMO SHEET TITLE: EXISTING CONDITIONS PLAN - ARLINGTON ROAD										
SHEET NUMBER: 6 of 39										





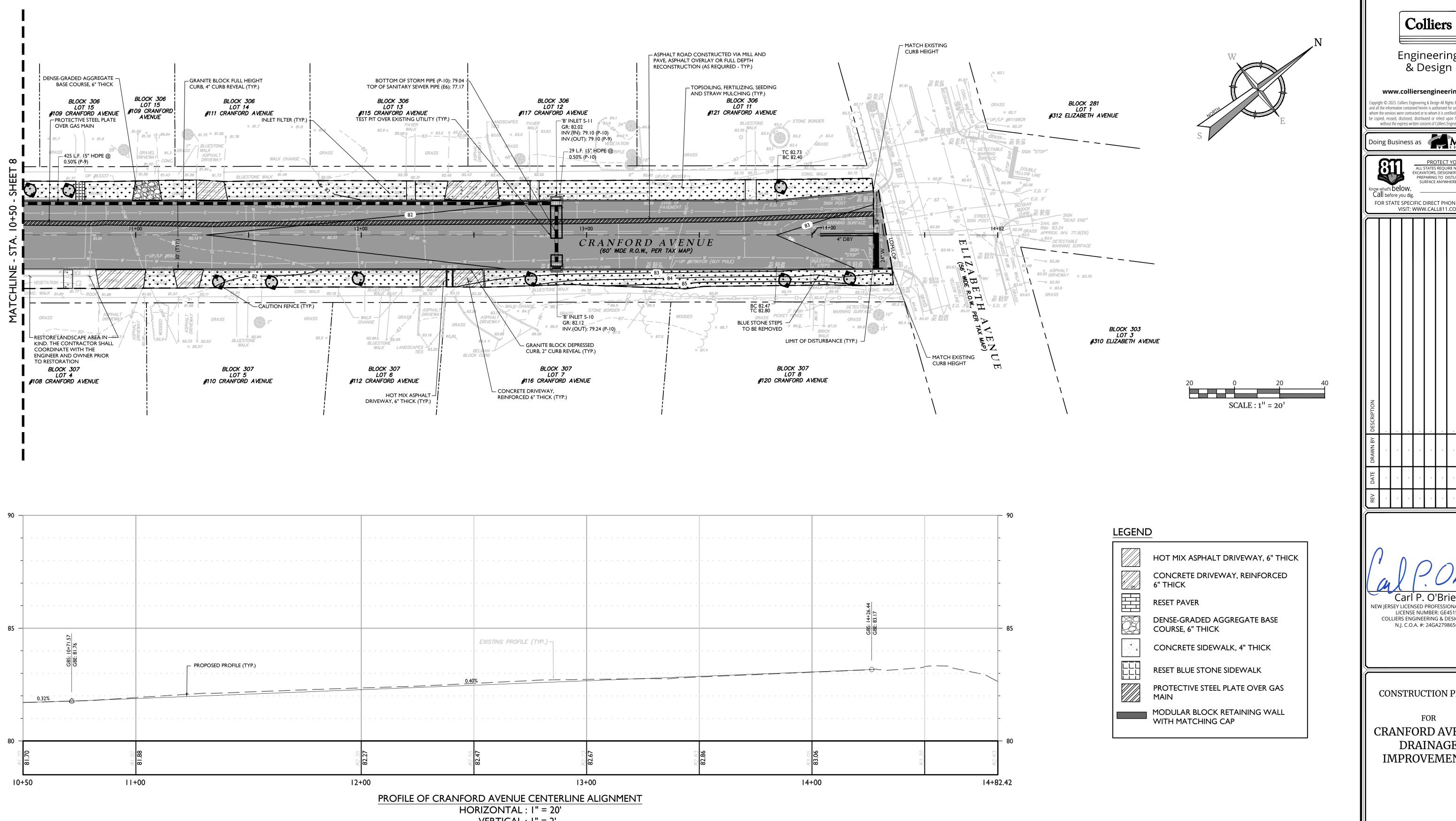




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SOIL EROSION AND SEDIMENT CONTROL PLAN NOTES:

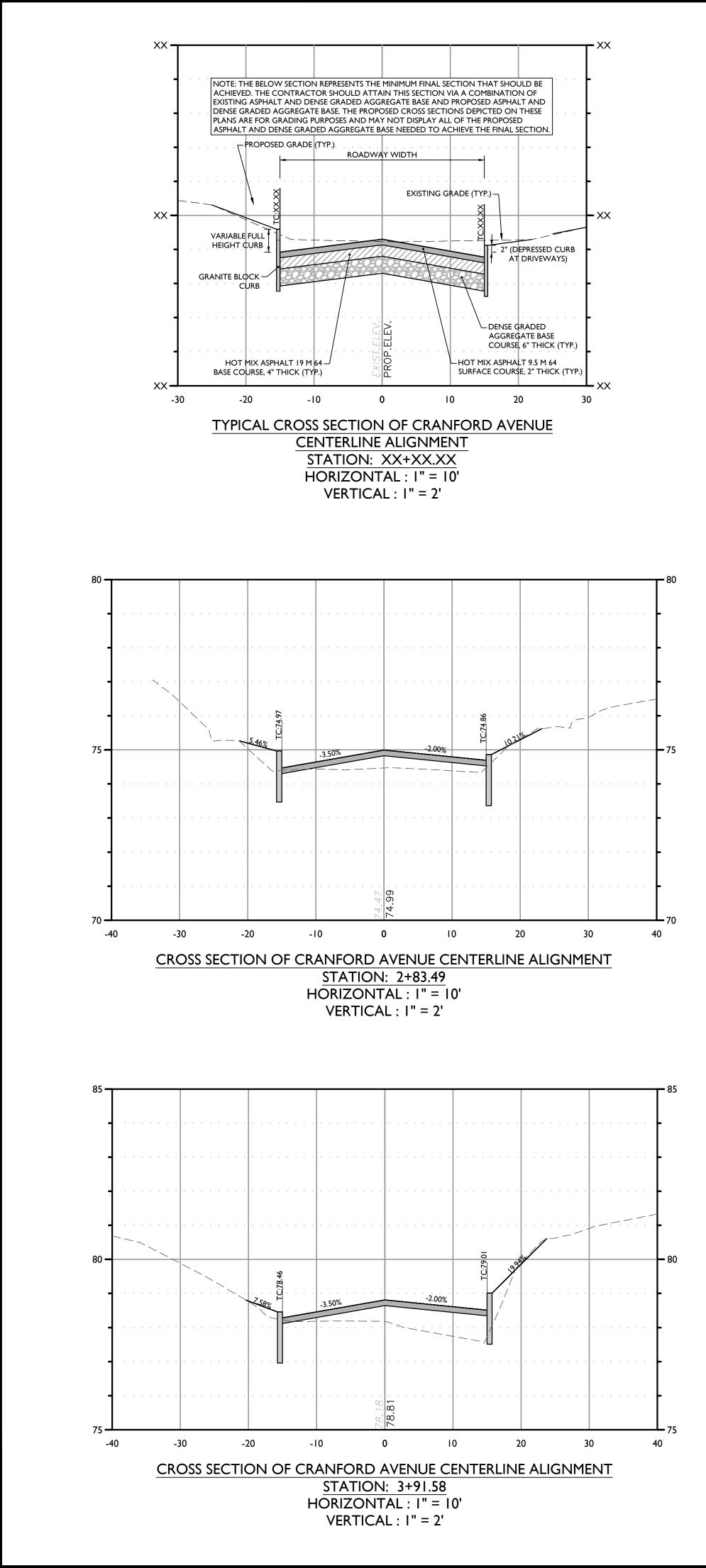
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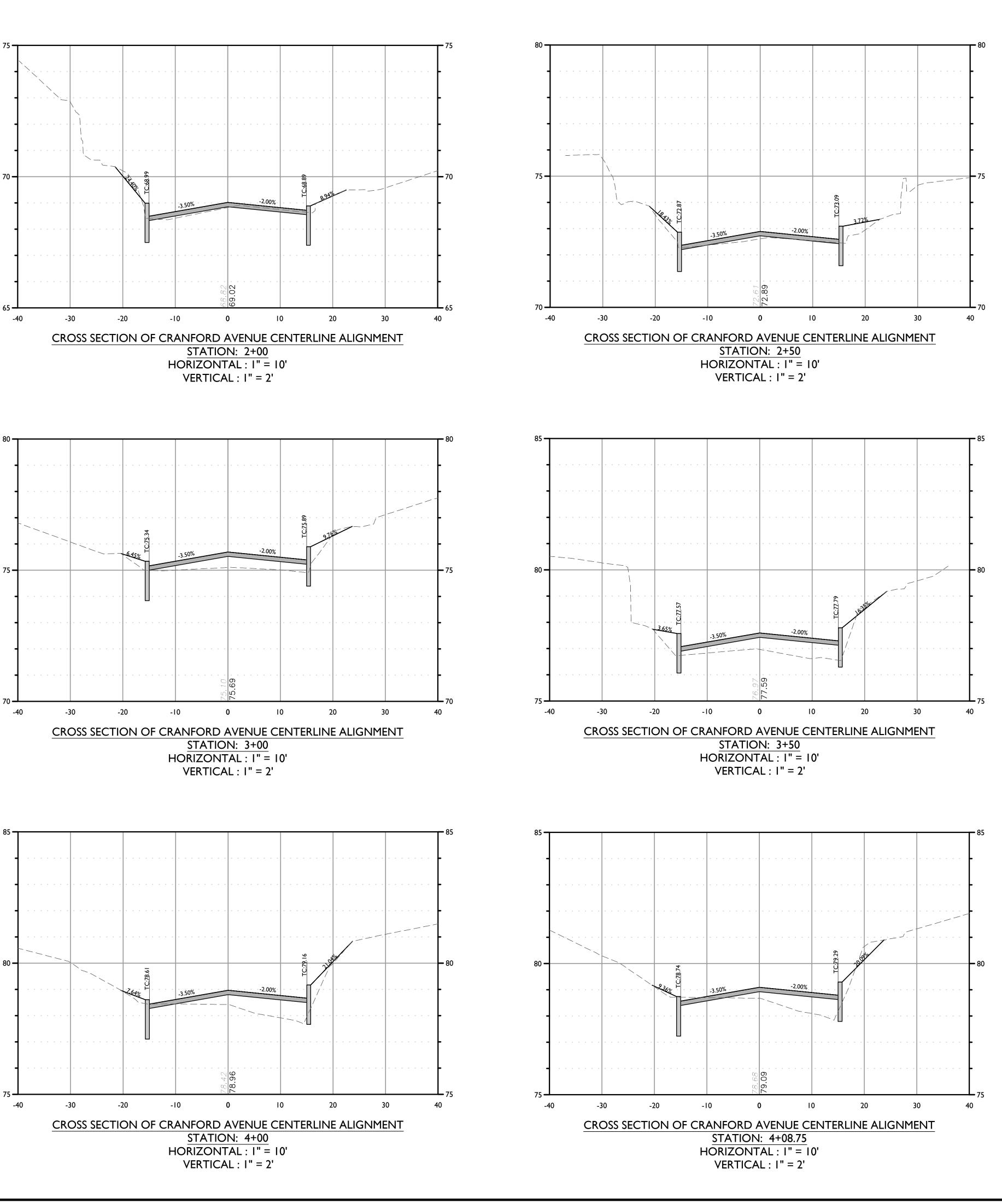
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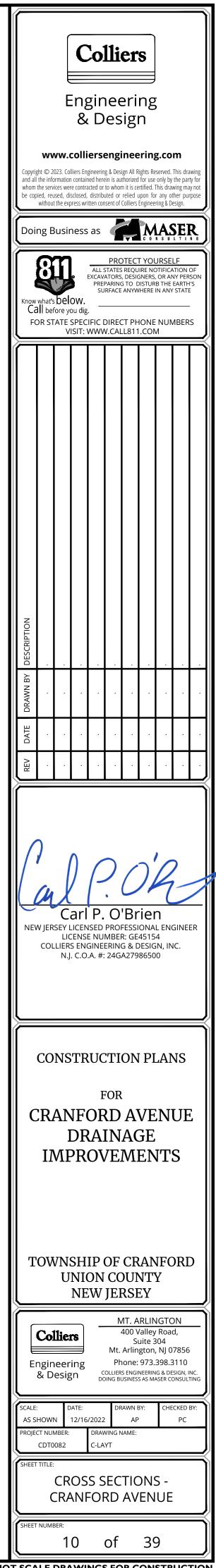
SCALE : 1" = 2' SCALE : 1" = 20' VERTICAL HORIZONTAL

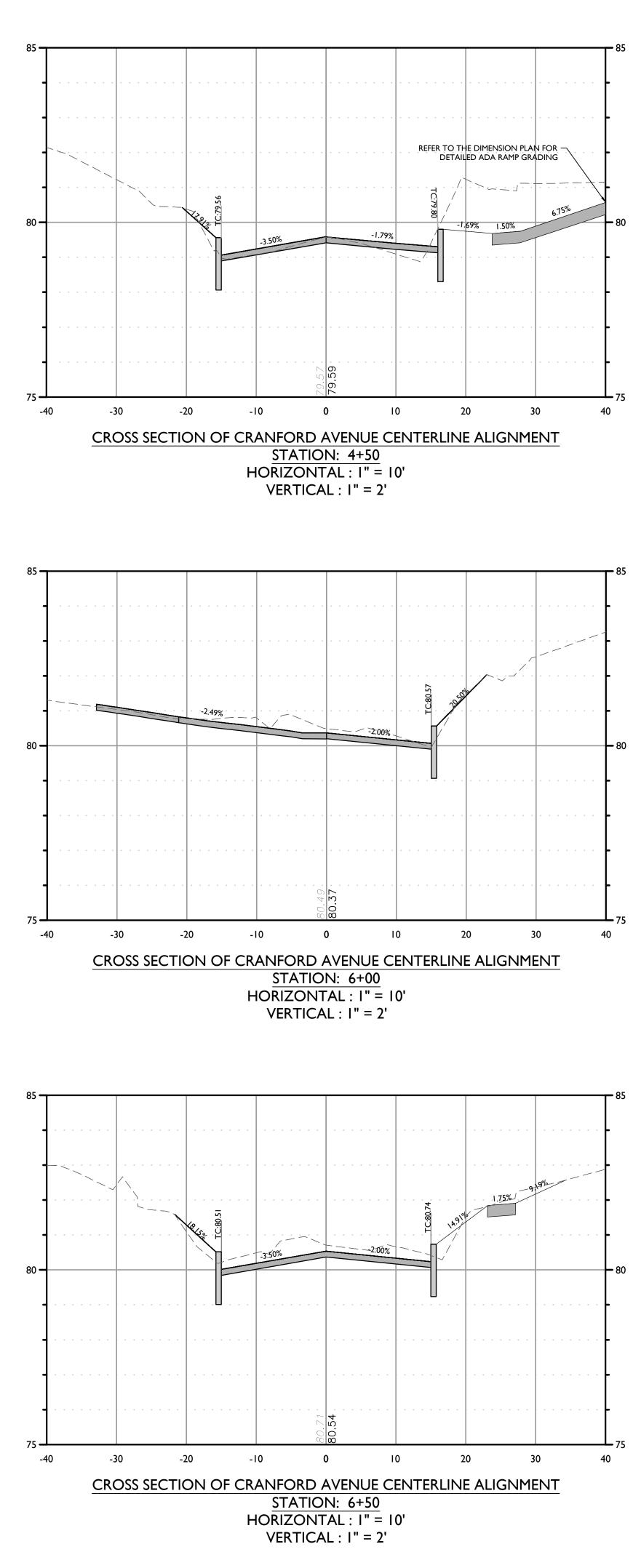
	HOT MIX ASPHALT DRIVEWAY, 6" THICK
r   124	CONCRETE DRIVEWAY, REINFORCED 6" THICK
	RESET PAVER
	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK
ح ح د	CONCRETE SIDEWALK, 4" THICK
	RESET BLUE STONE SIDEWALK
	PROTECTIVE STEEL PLATE OVER GAS MAIN
	MODULAR BLOCK RETAINING WALL WITH MATCHING CAP

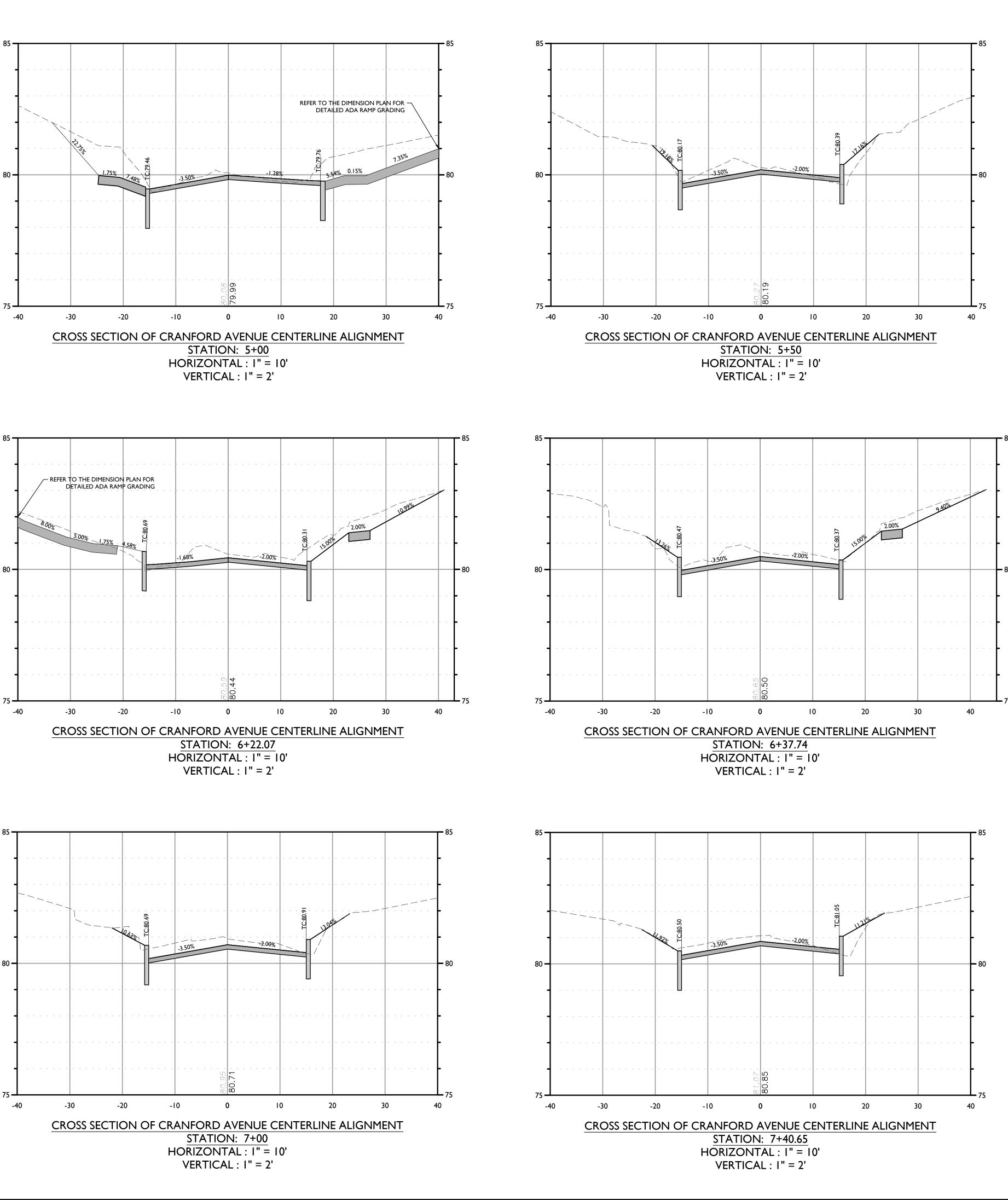
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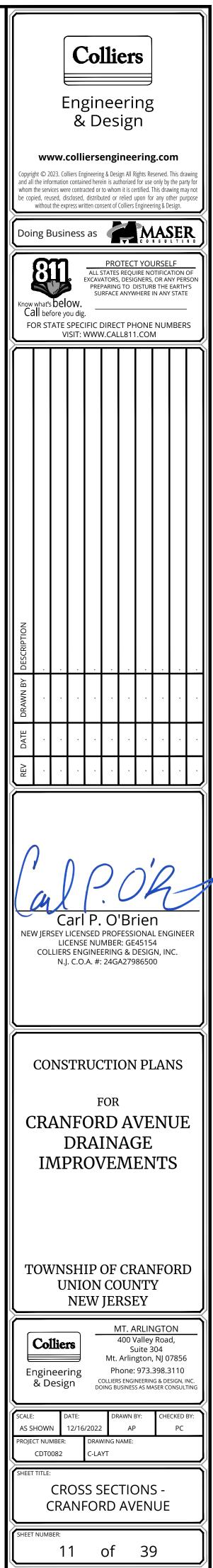


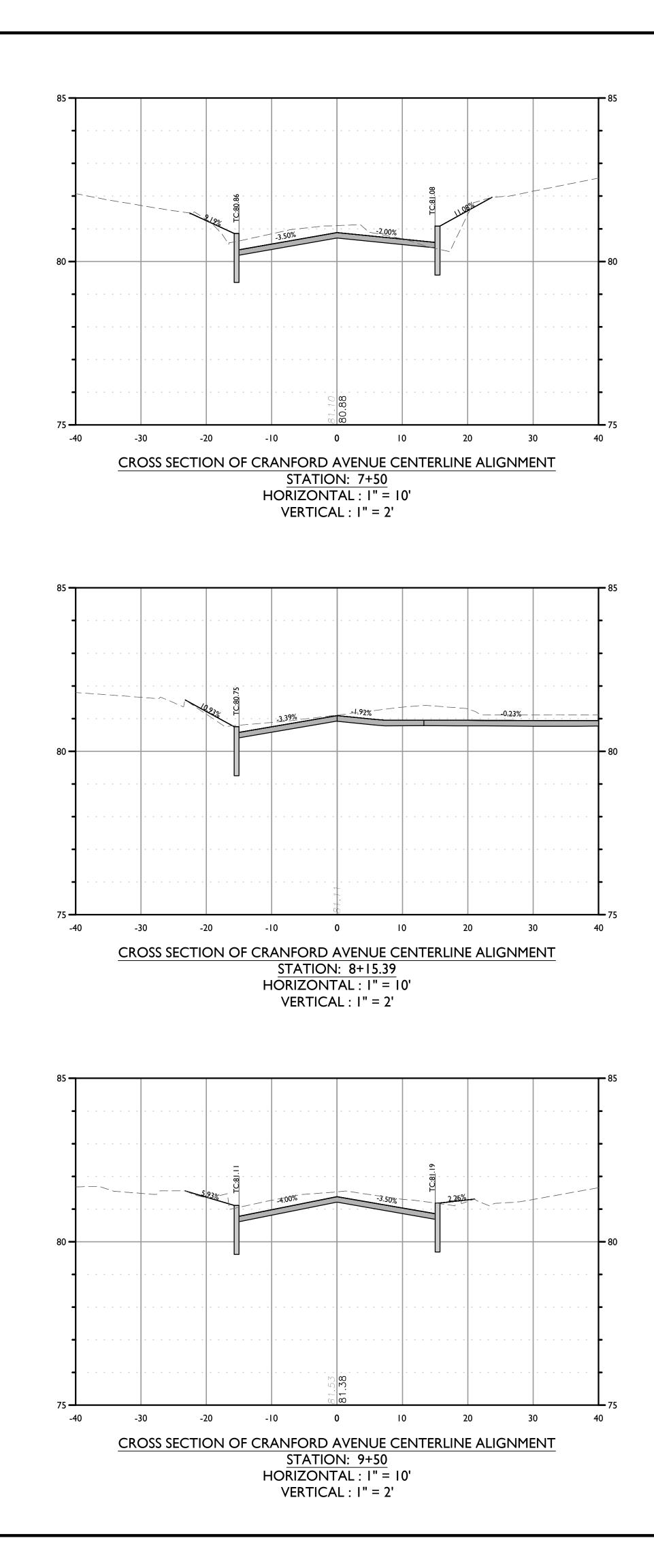




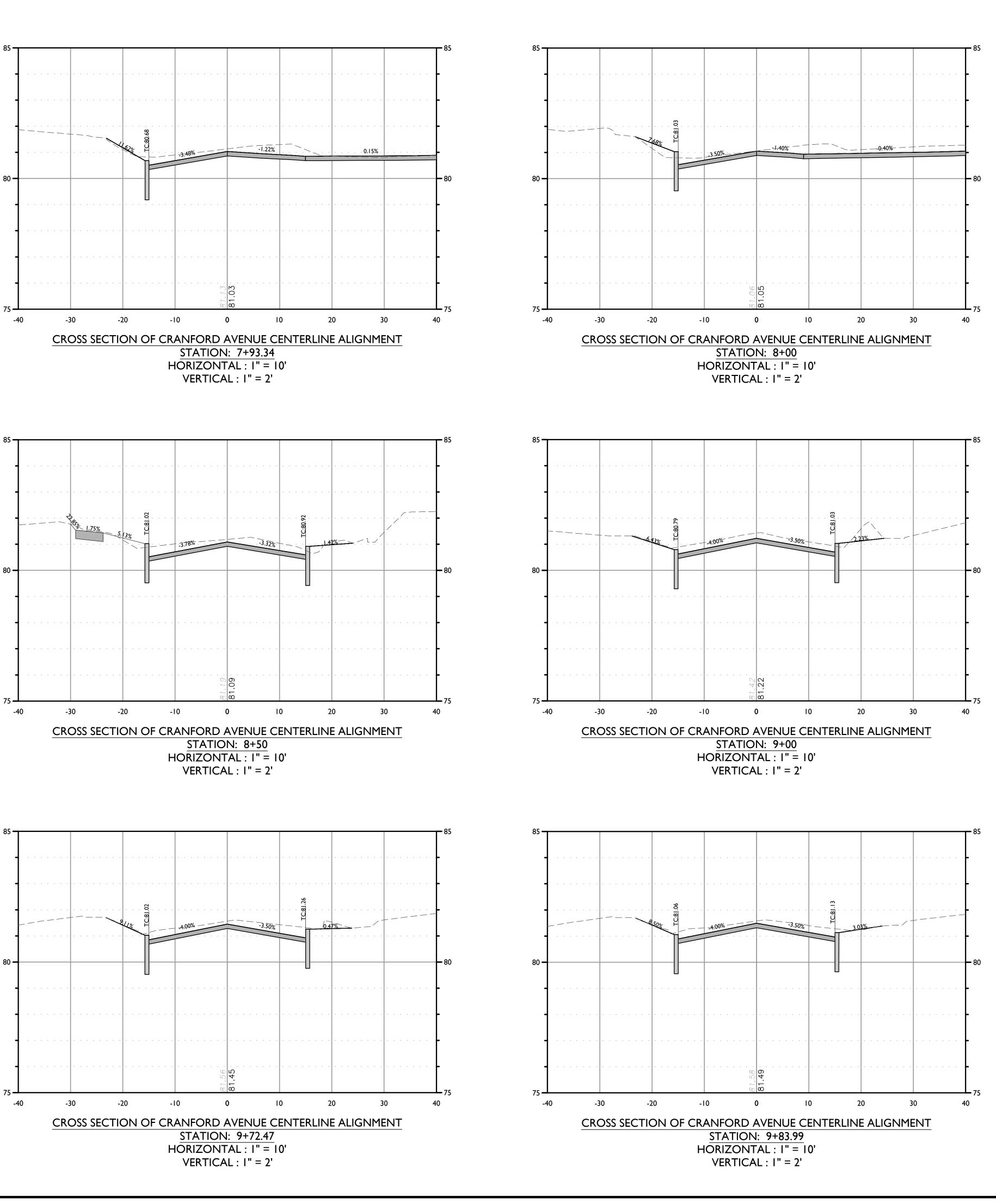




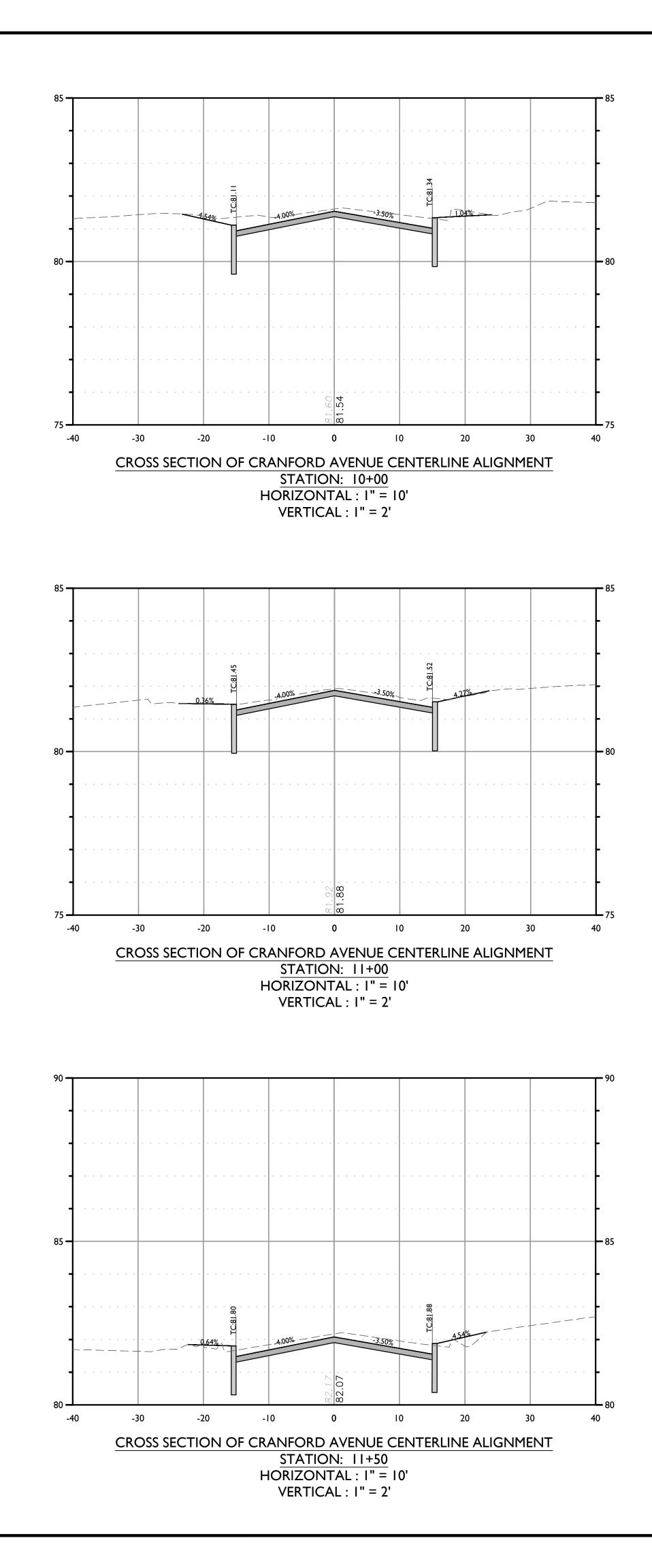


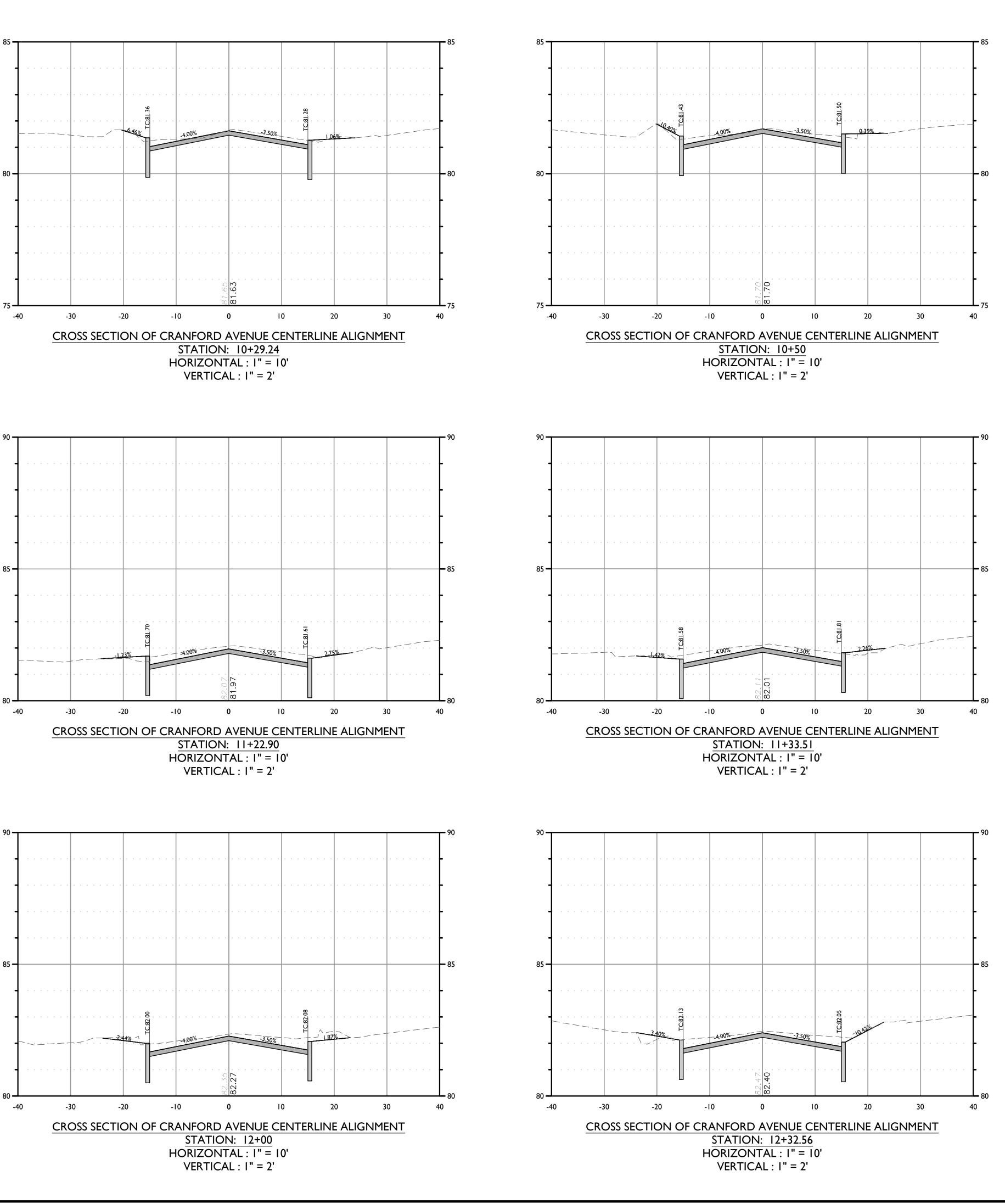


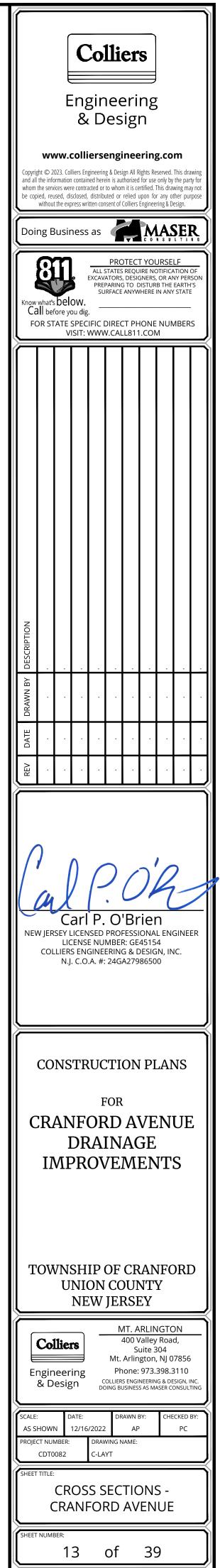
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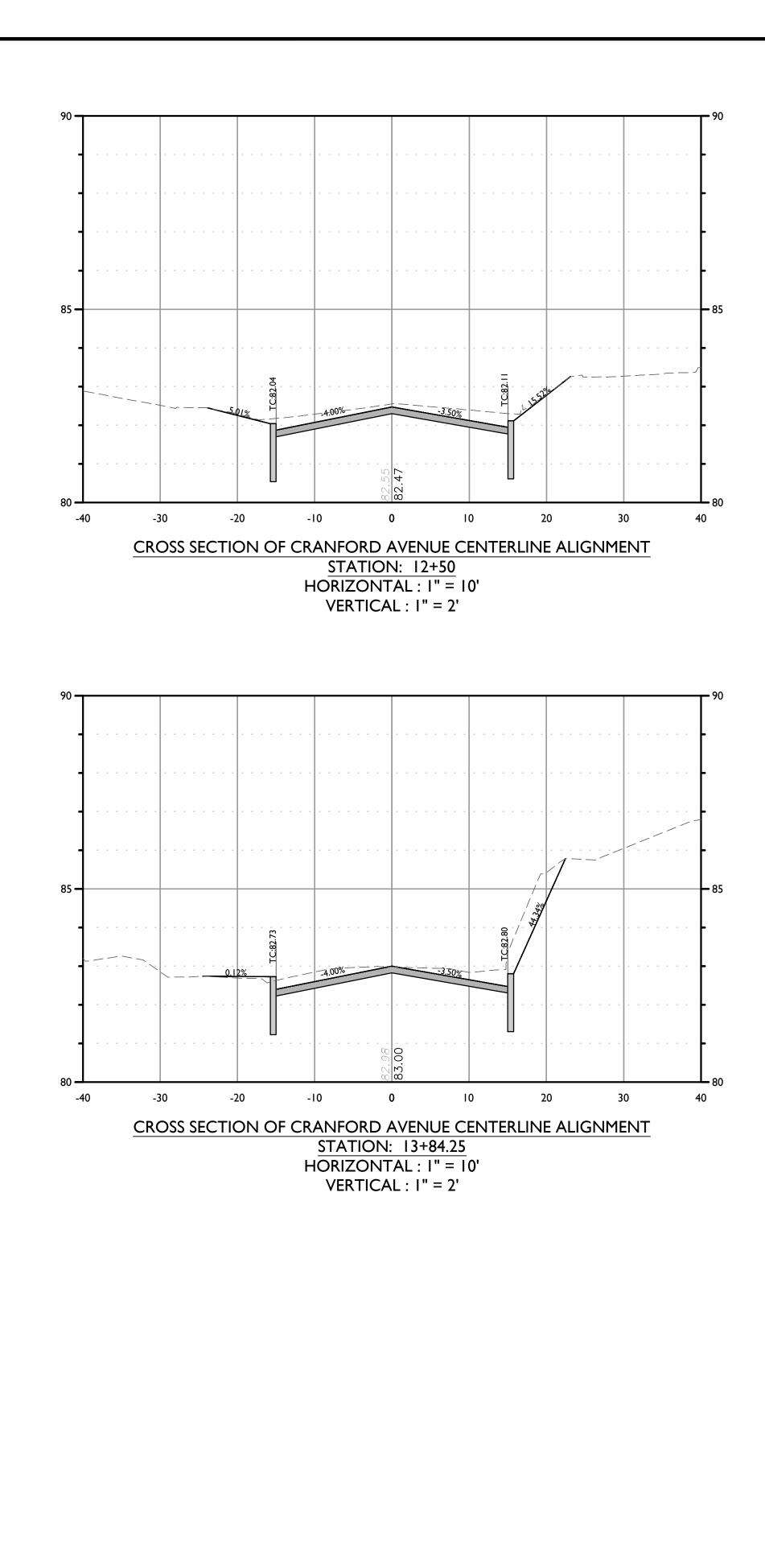


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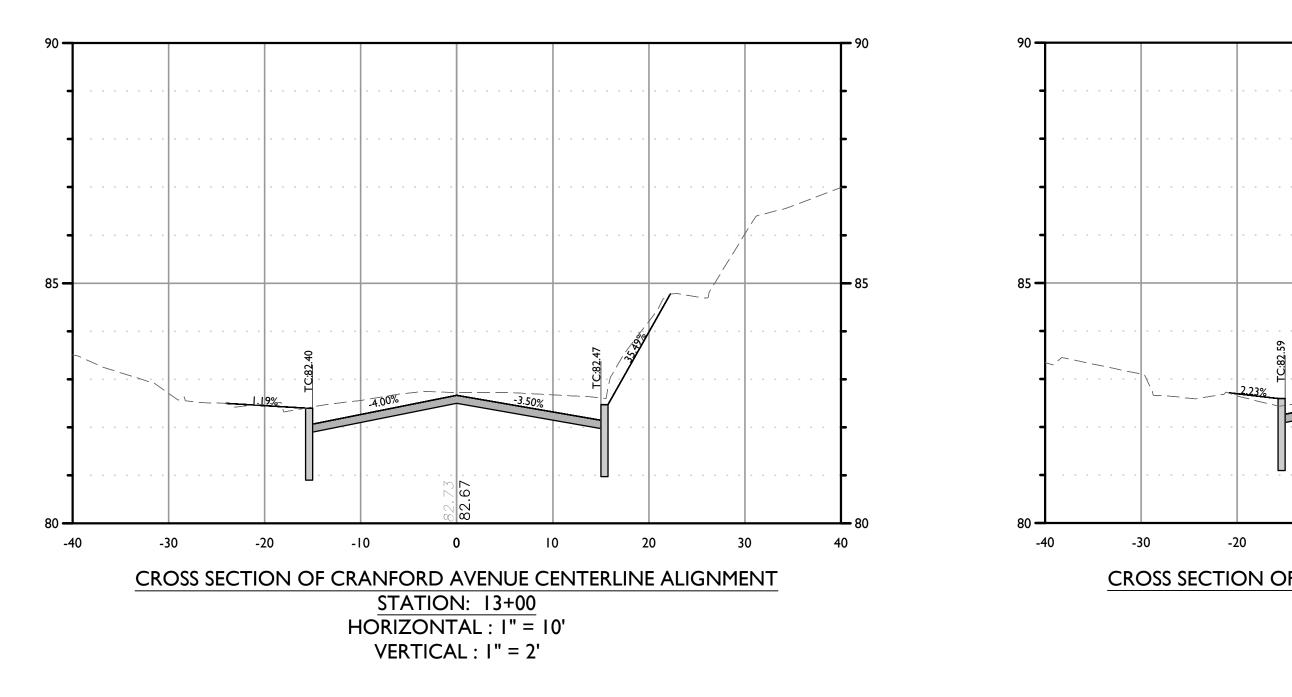


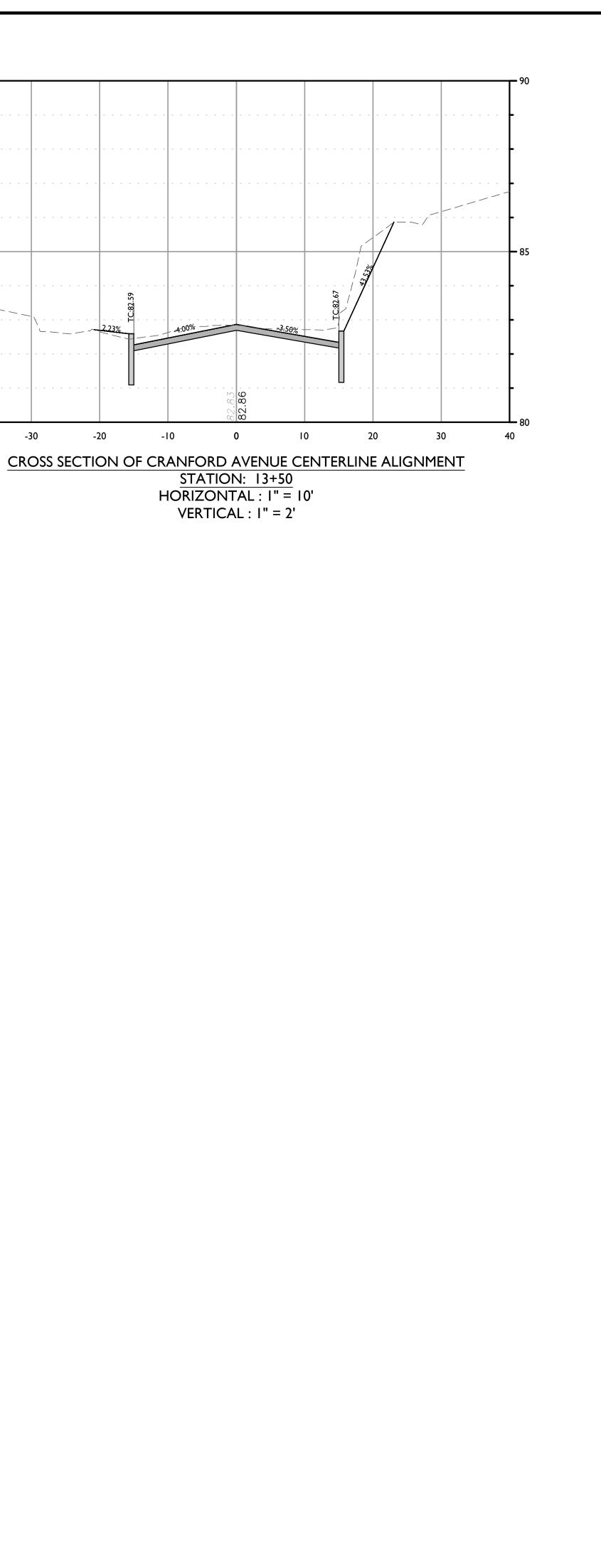






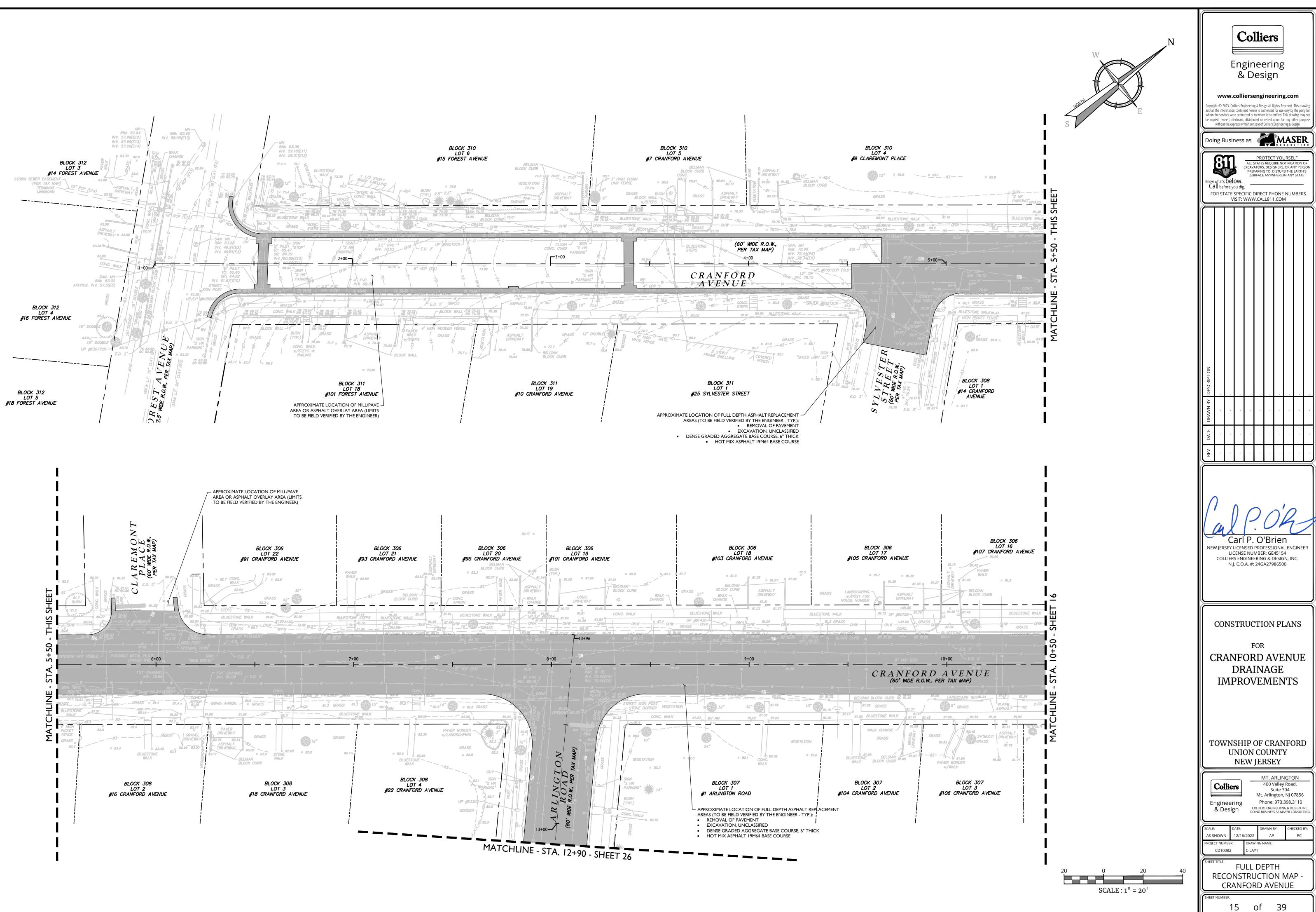
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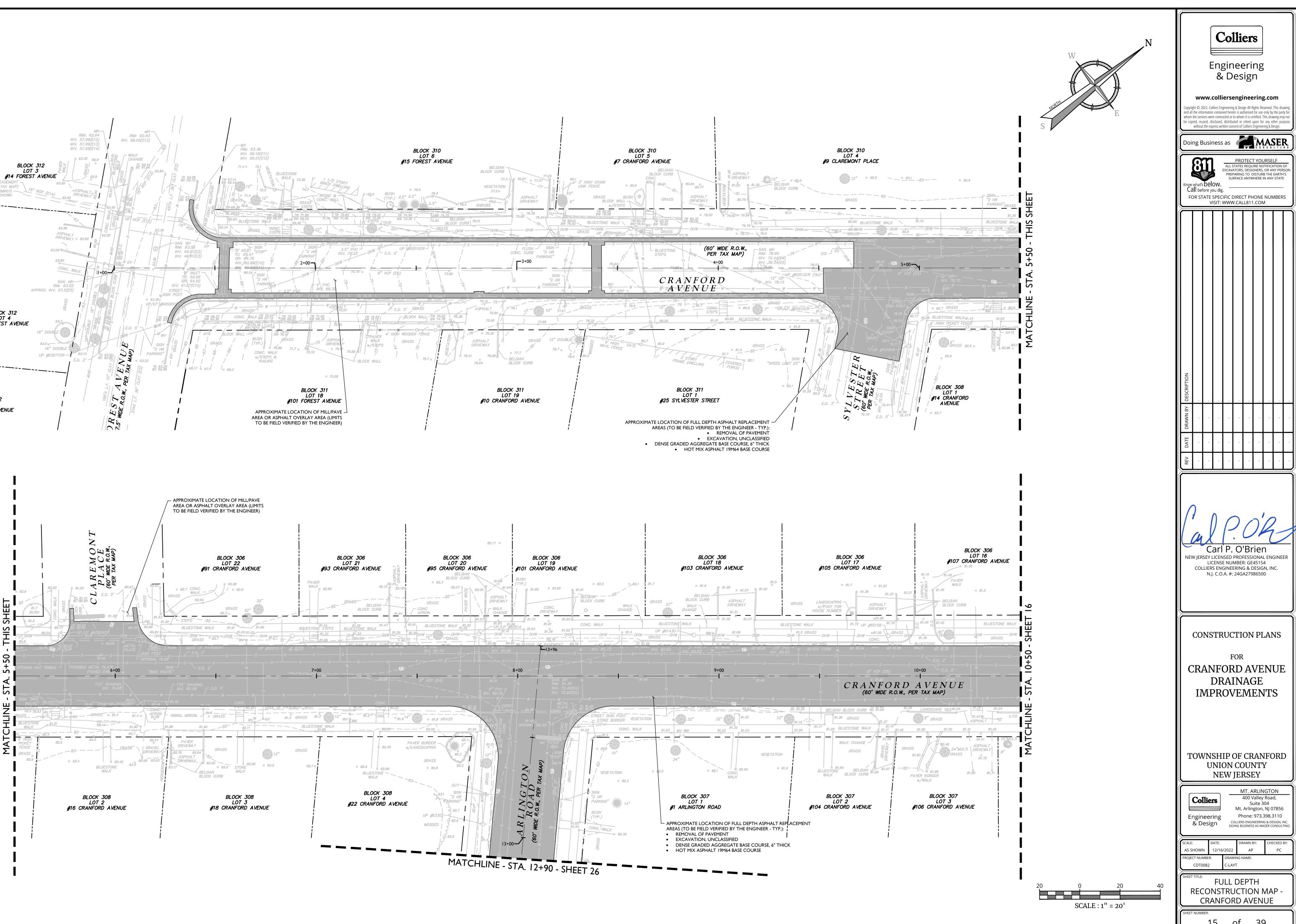


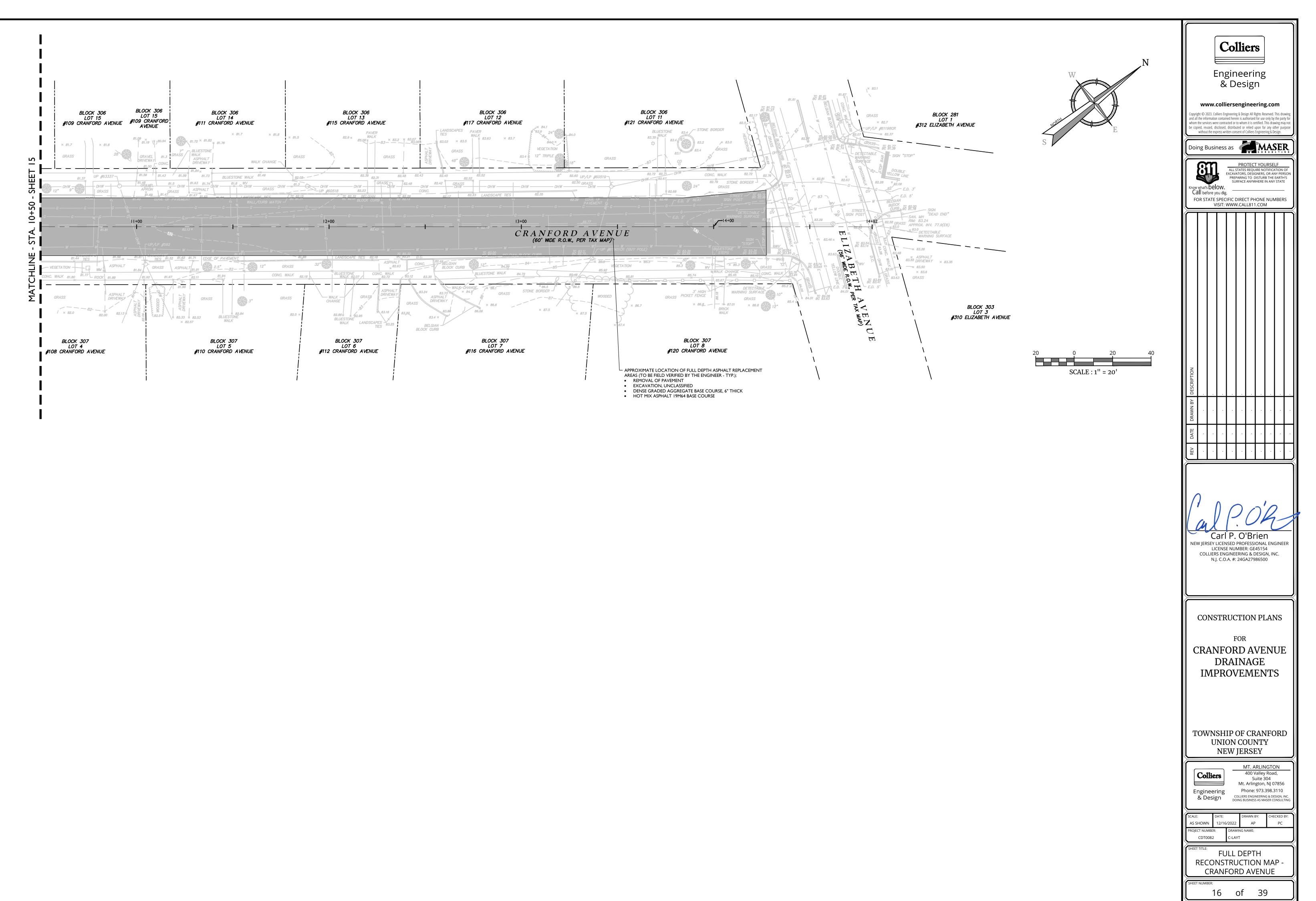


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CROSS SECTIONS - CRANFORD AVENUE		

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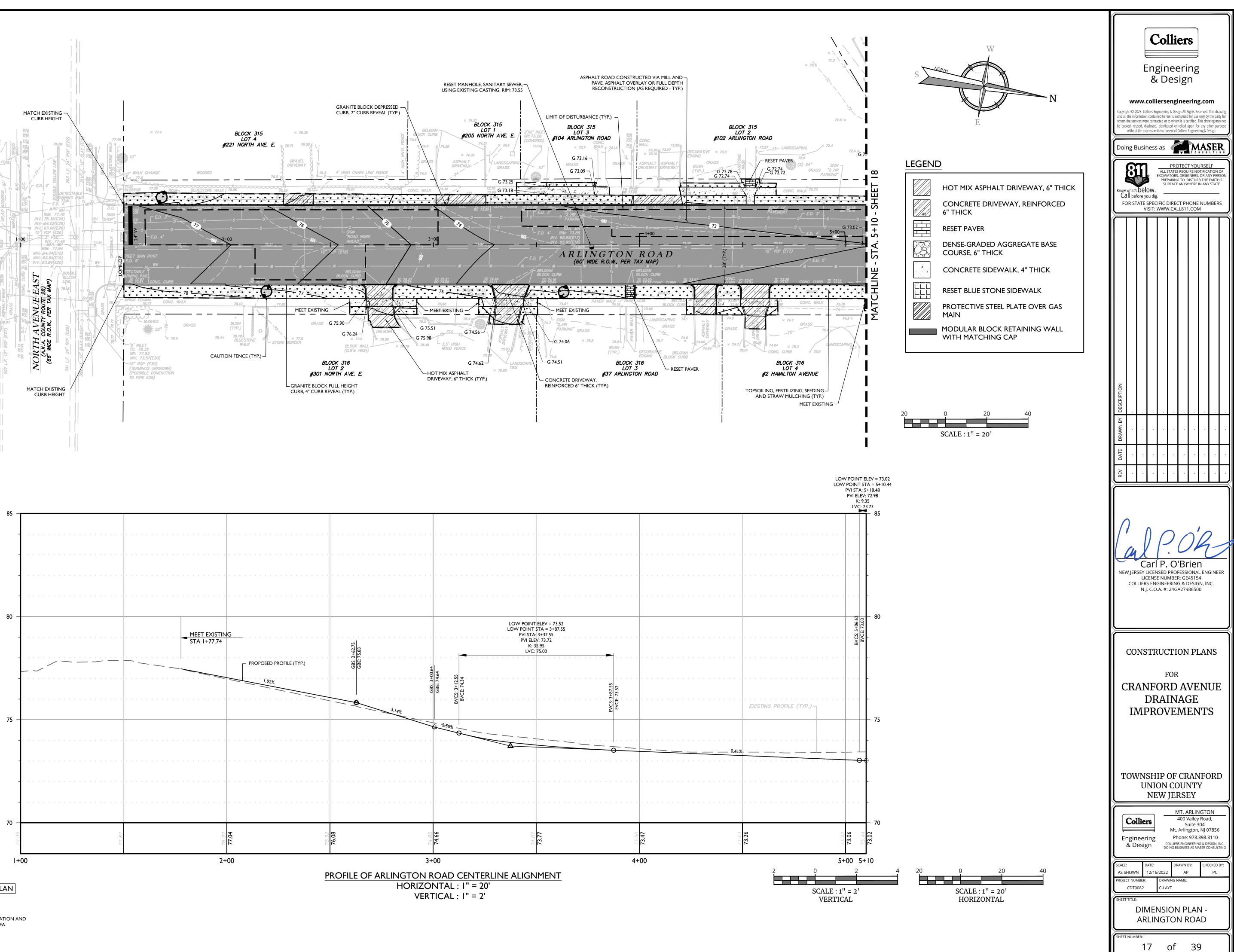


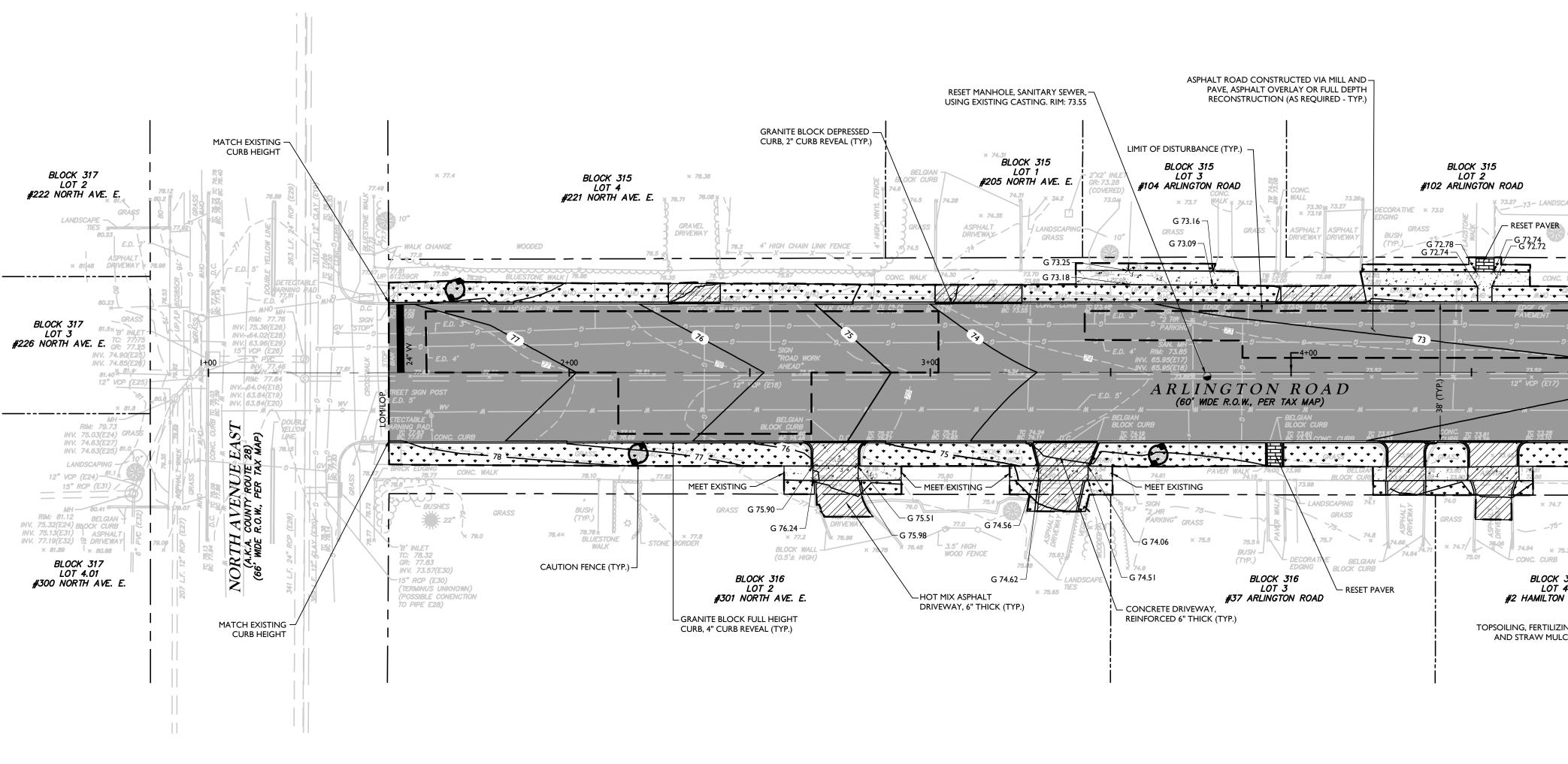


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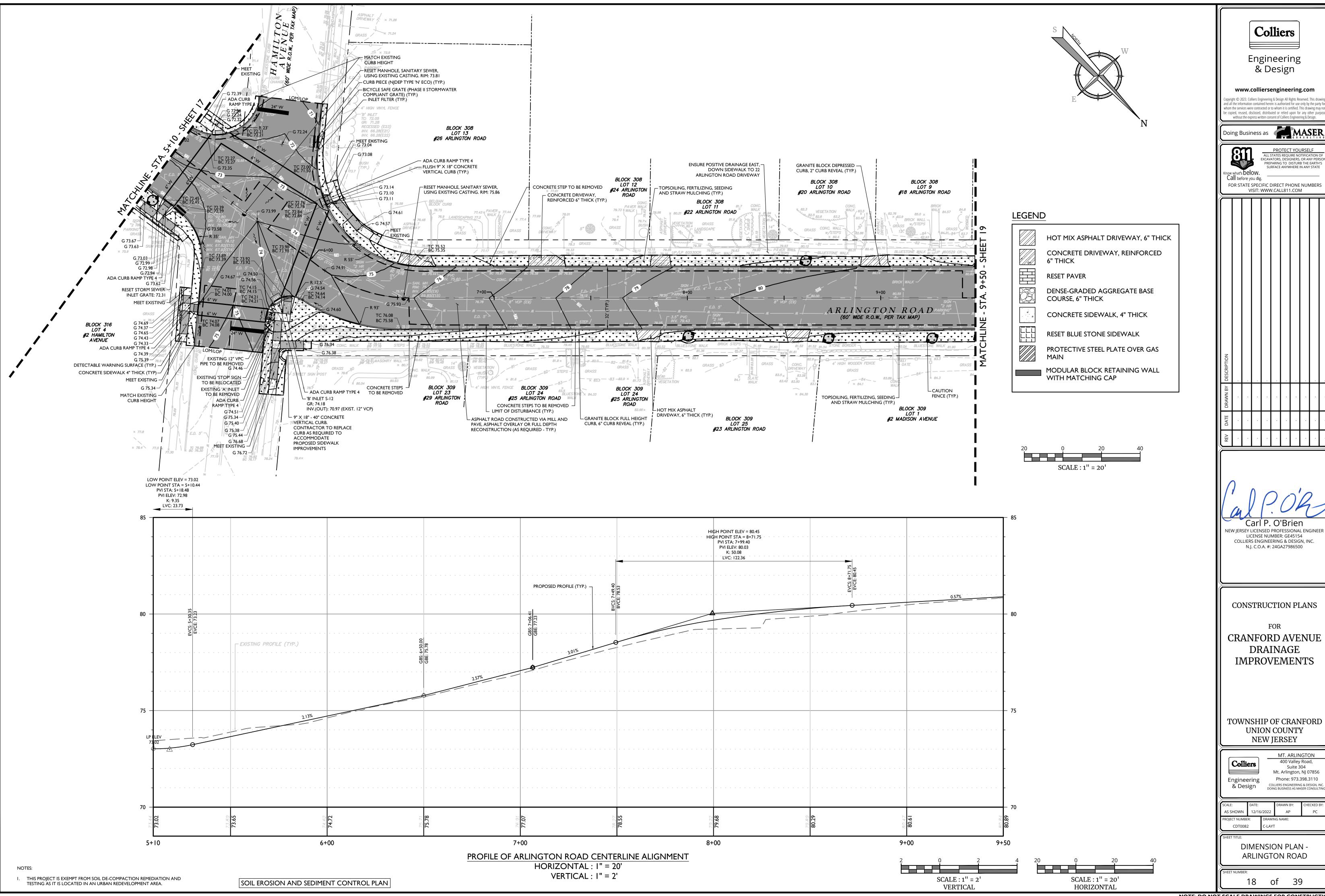


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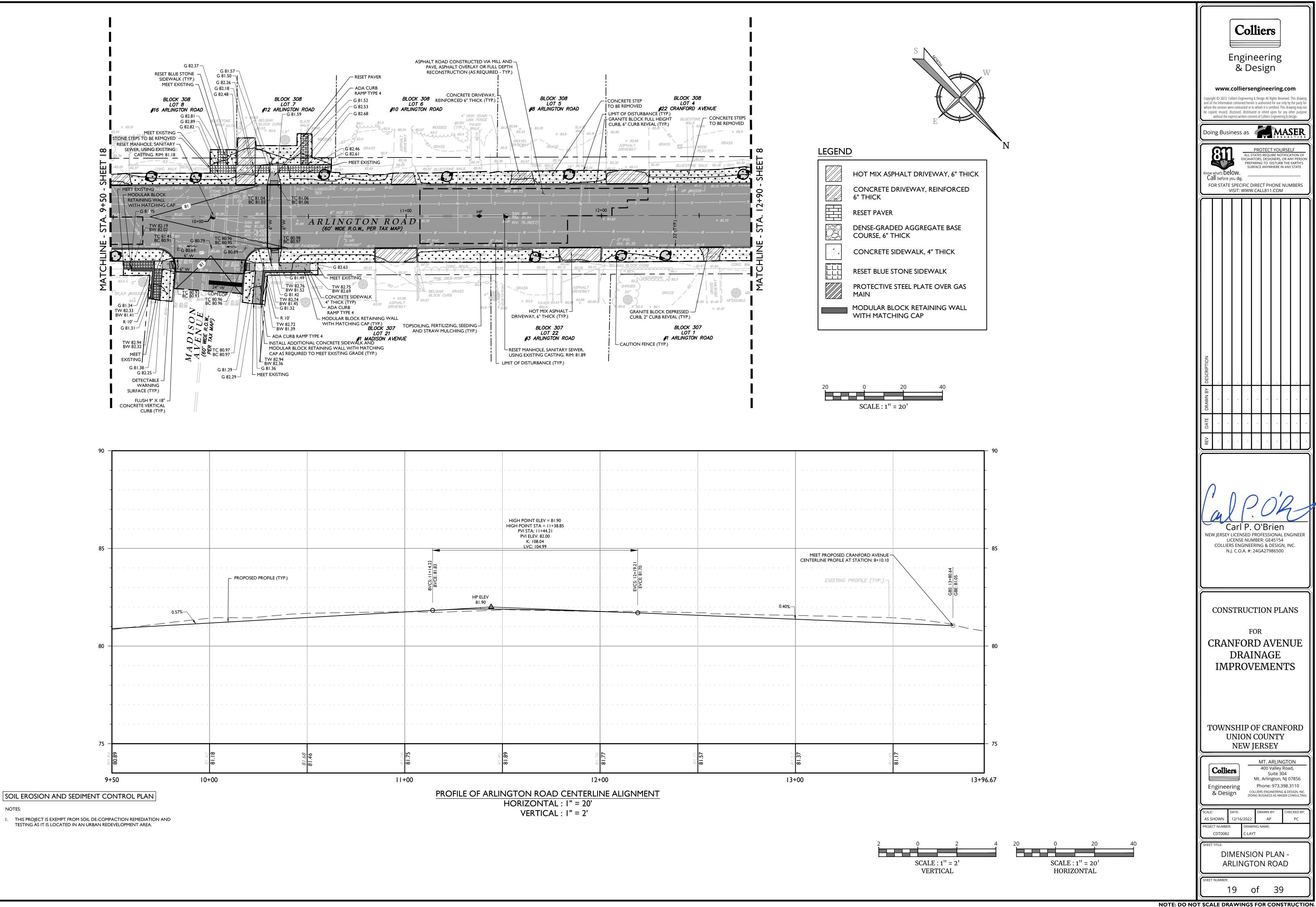




NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION

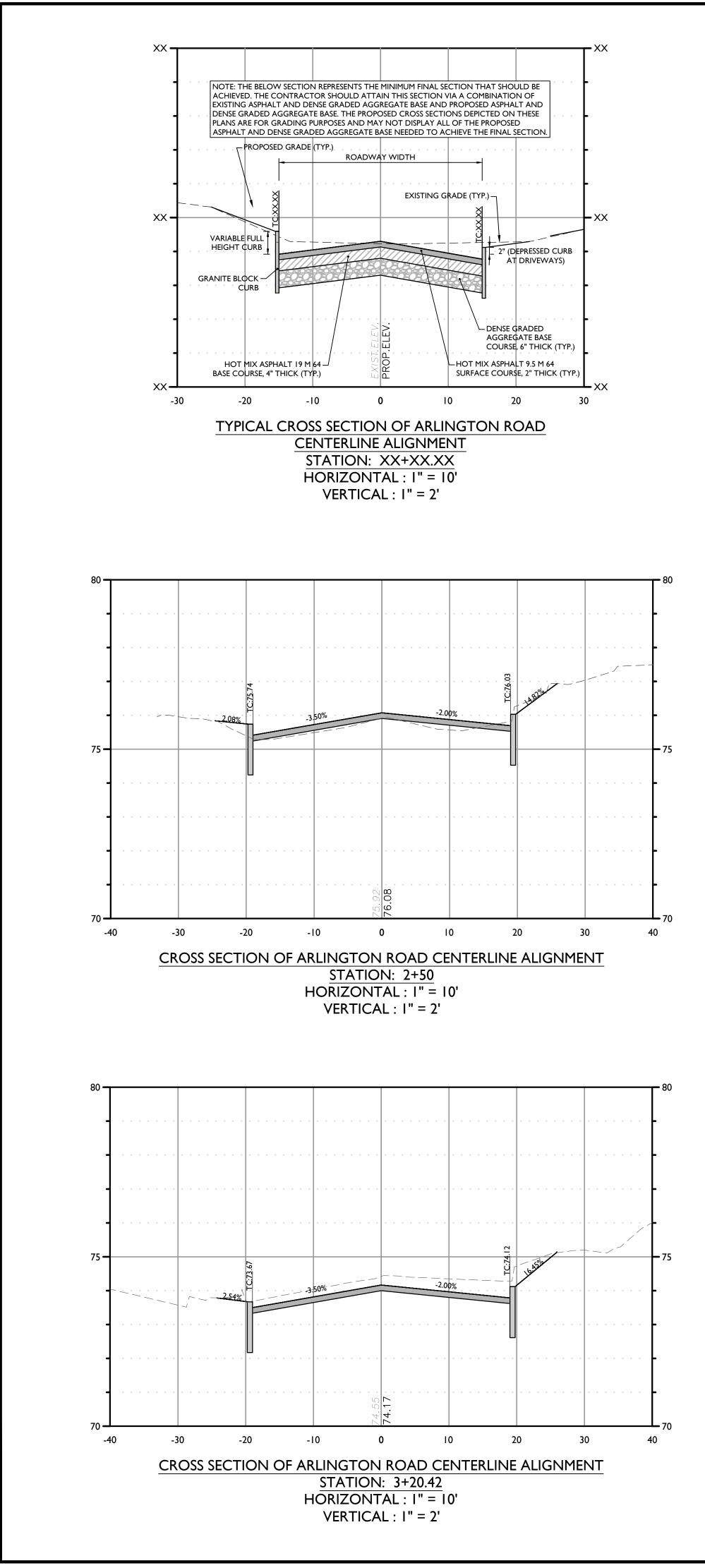


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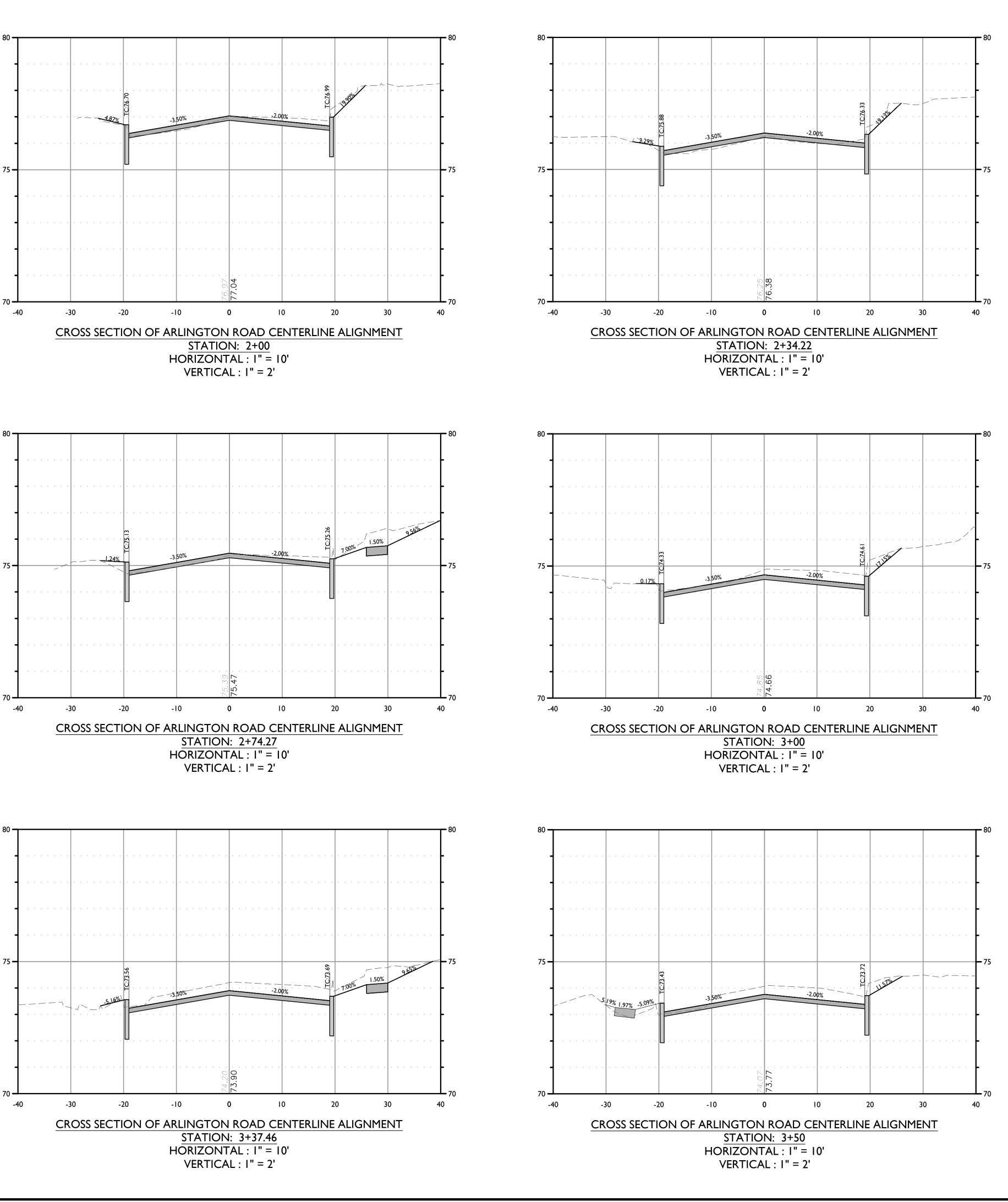


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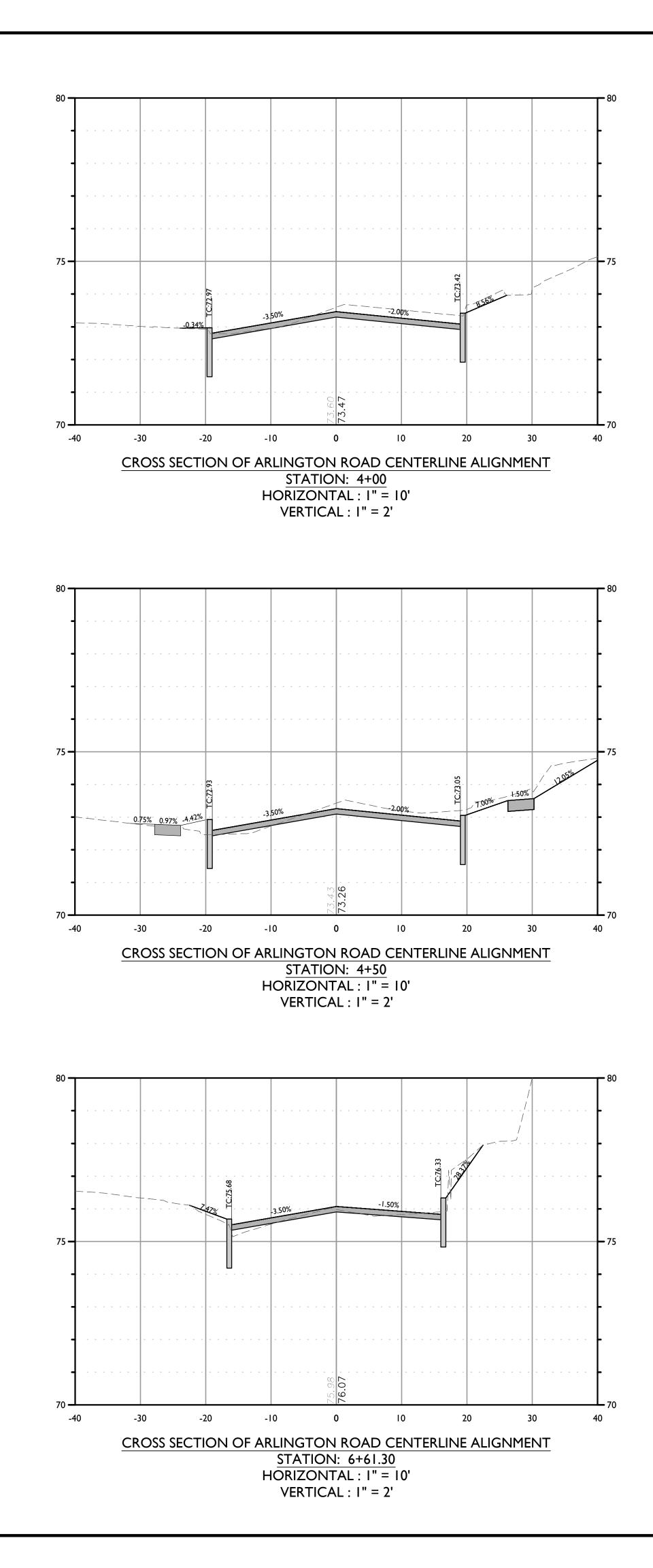
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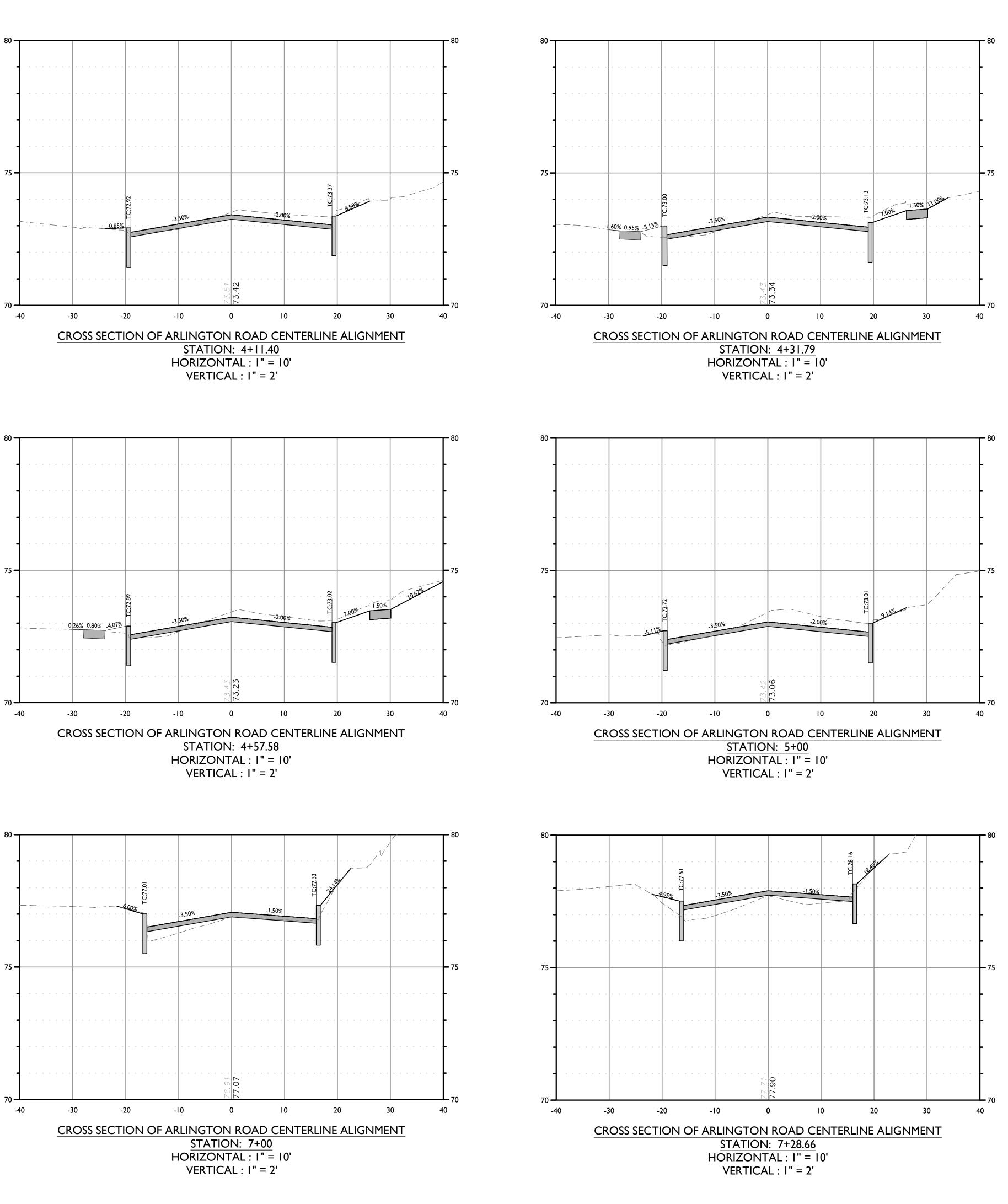
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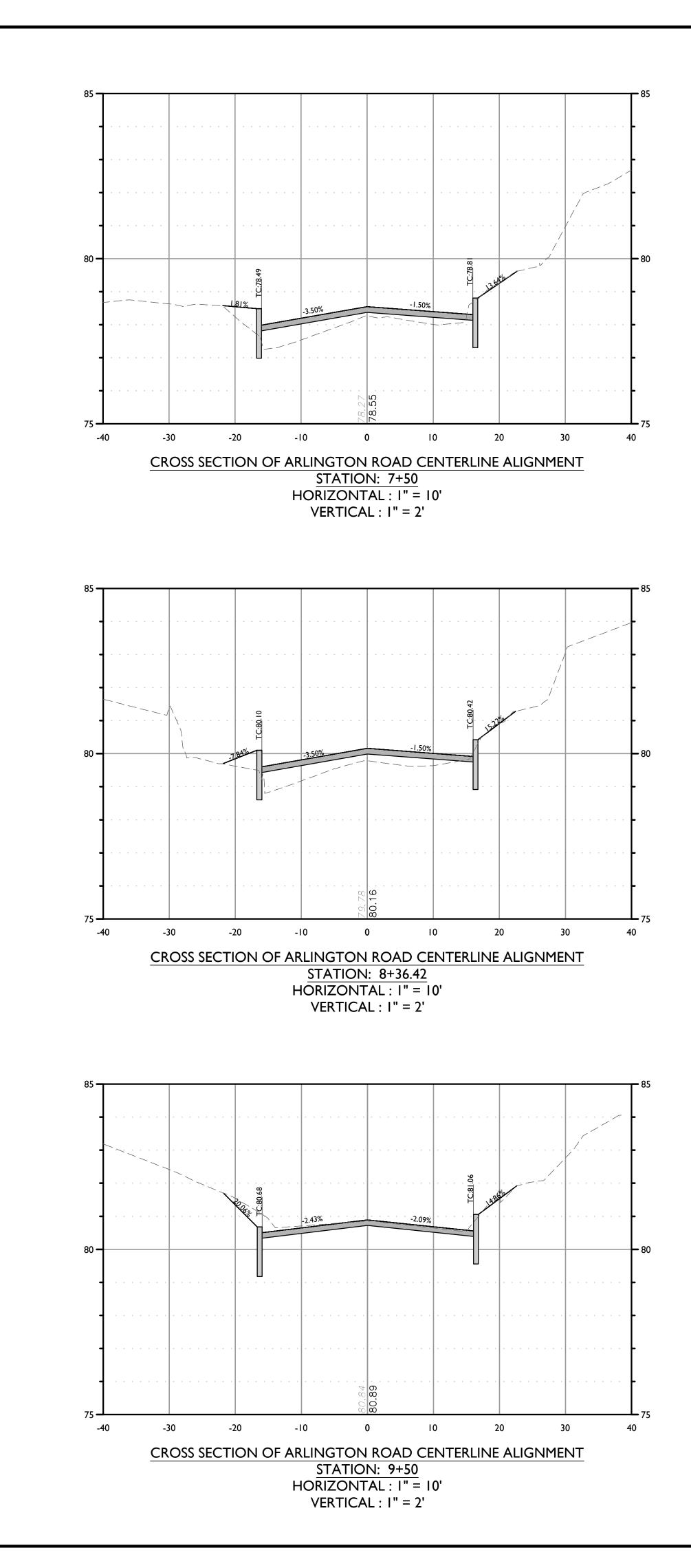
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CDT0082 C-LAYT SHEET TITLE: CROSS SECTIONS - ARLINGTON ROAD SHEET NUMBER: 20 of 39				

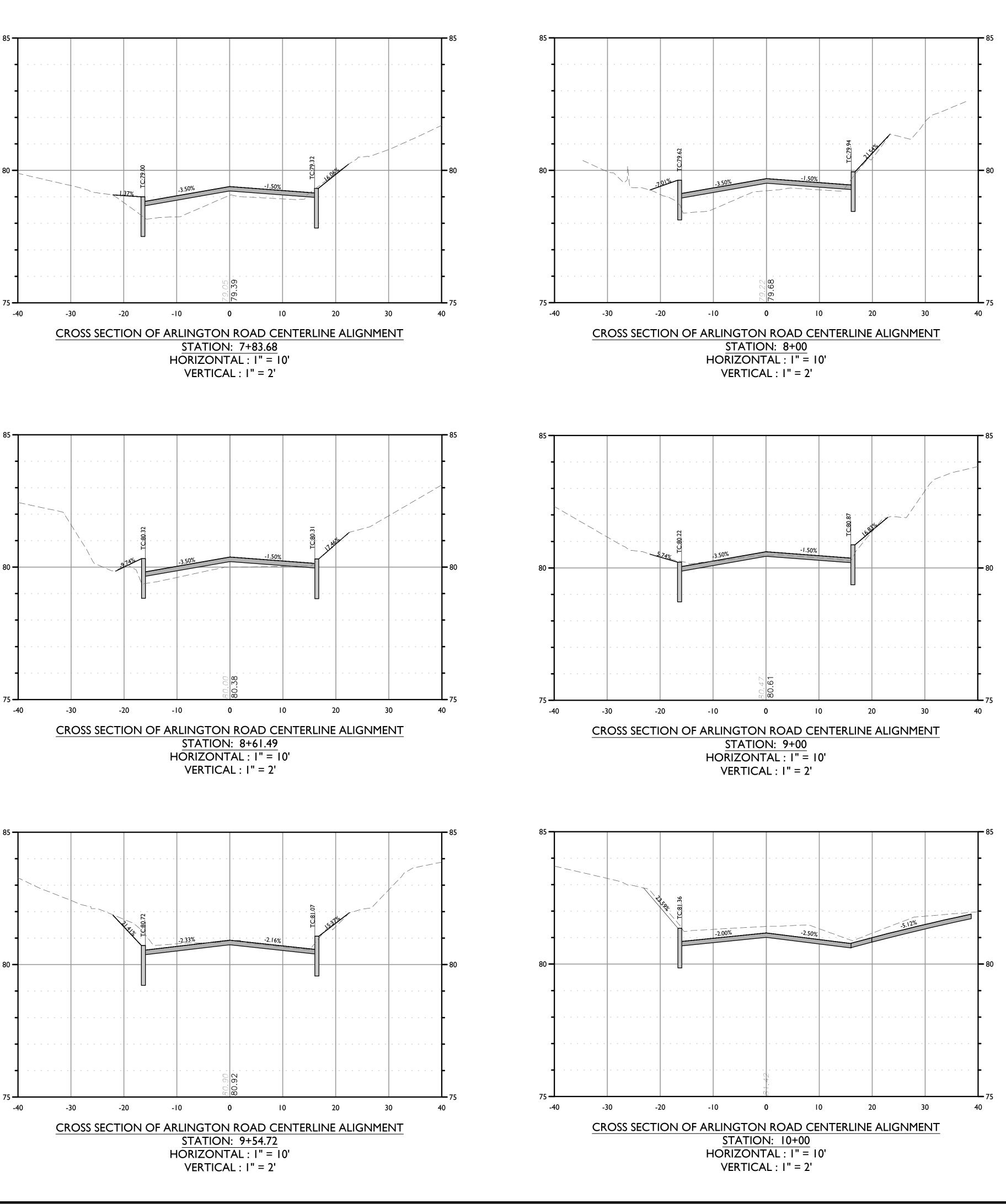


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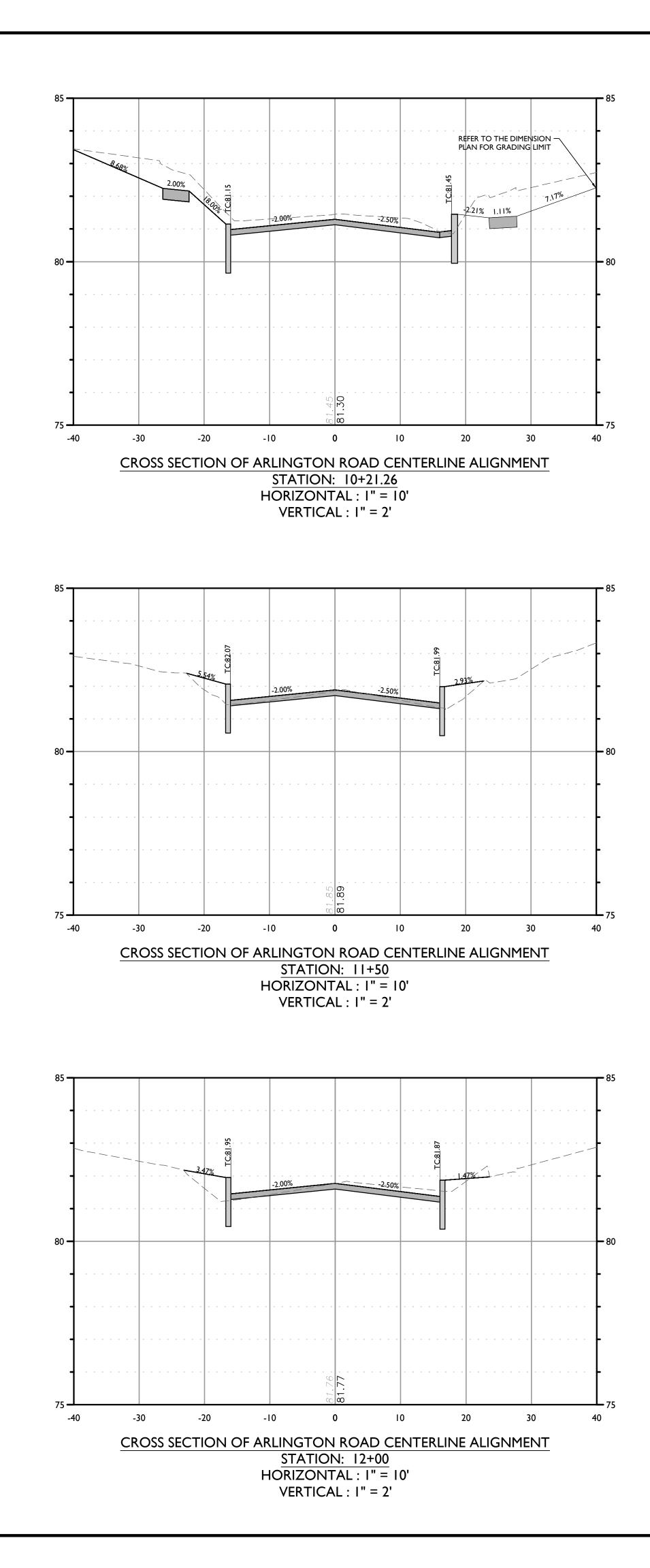


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CONSTRUCTION PLANS FOR CRANFORD AVENUE DRAINAGE IMPROVEMENTS				
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SHEET TITLE: CROSS SECTIONS - ARLINGTON ROAD				
SHEET NUMBER: 21 of 39				

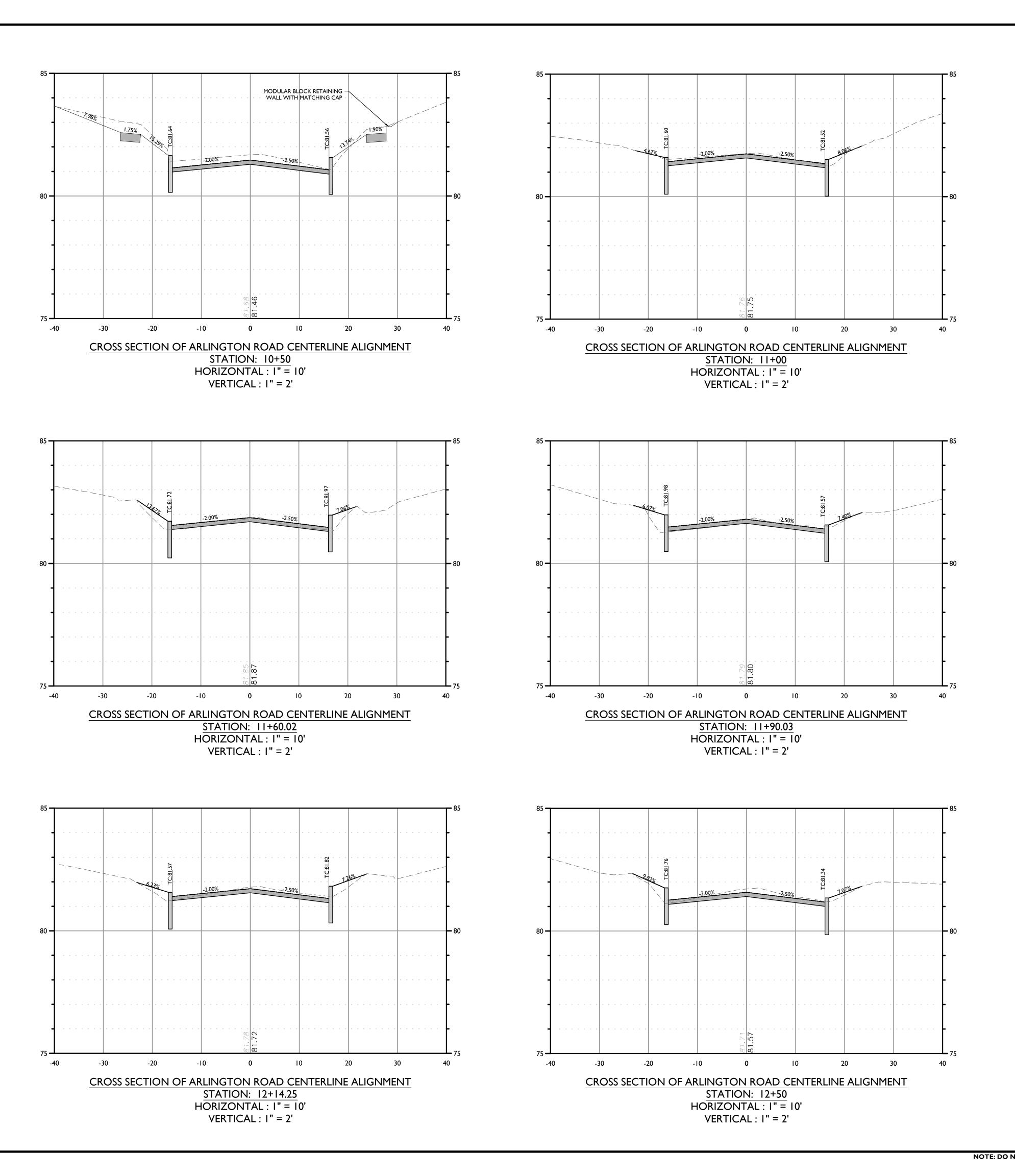


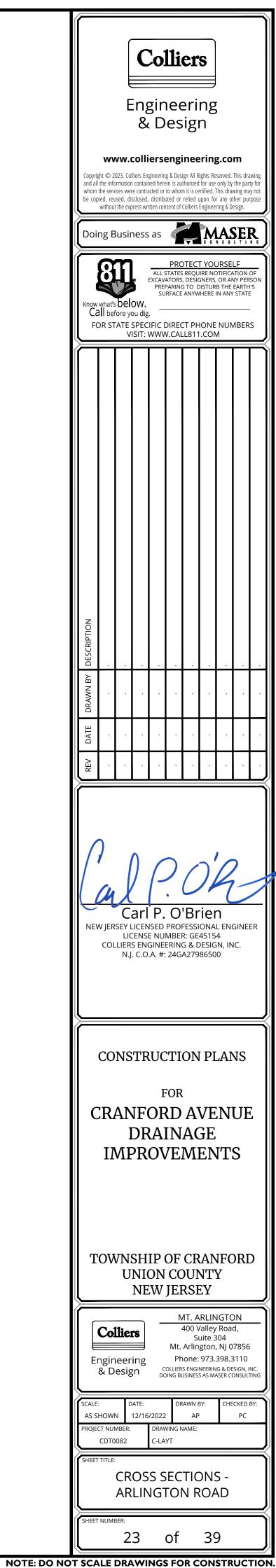


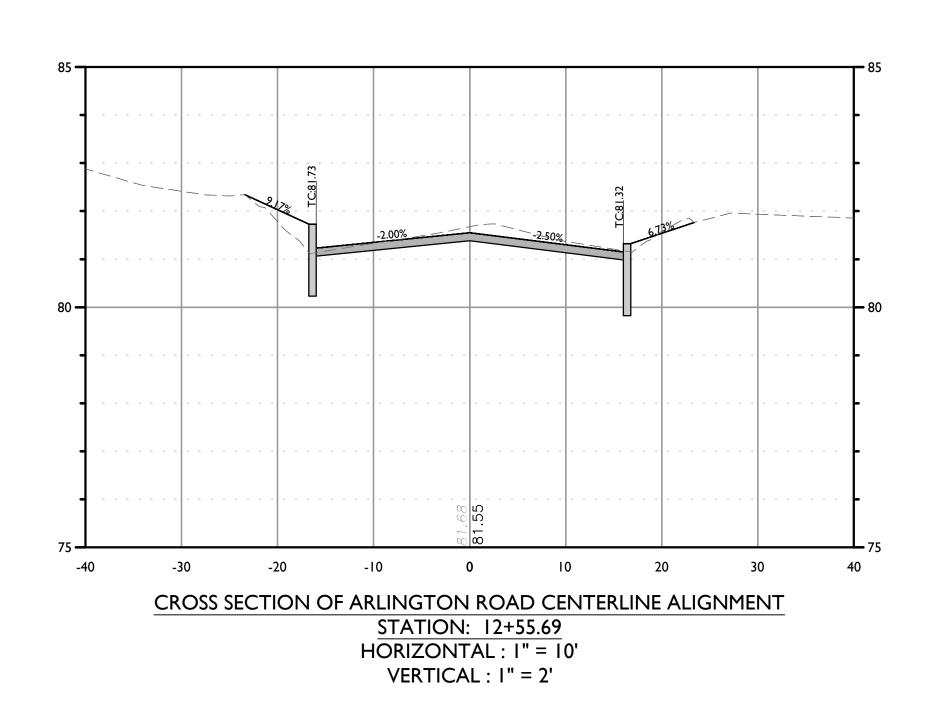
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CONSTRUCTION PLANSFORCRANFORD AVENUEDRAINAGEJMPROVEMENTSTOWNSHIP OF CRANFORDUNION COUNTY					
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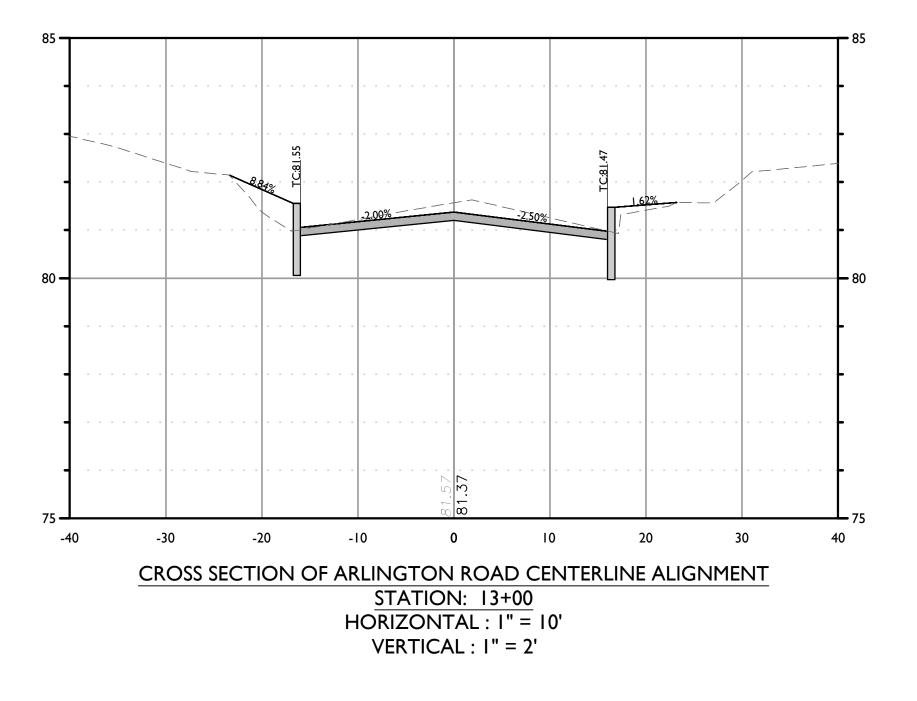




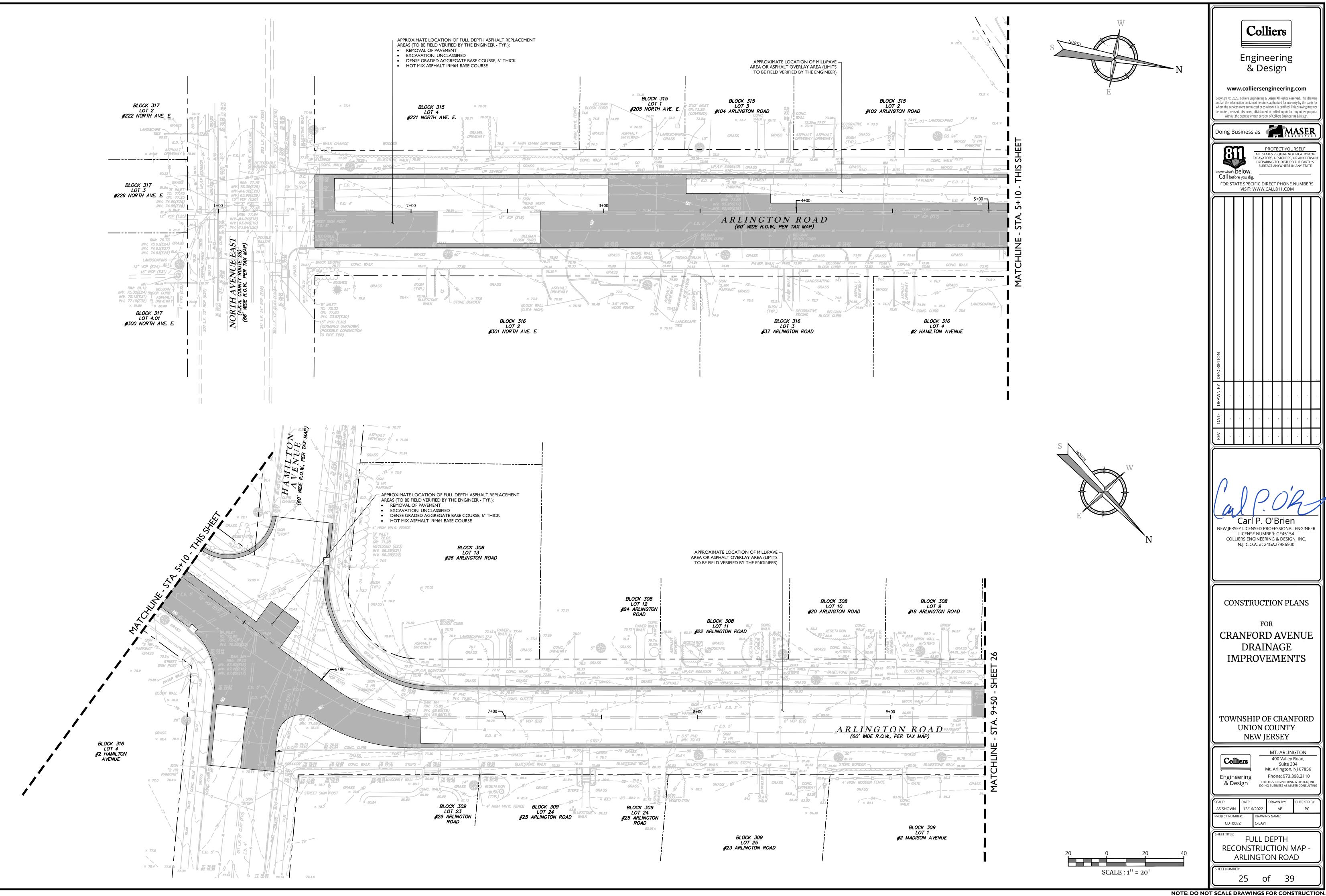


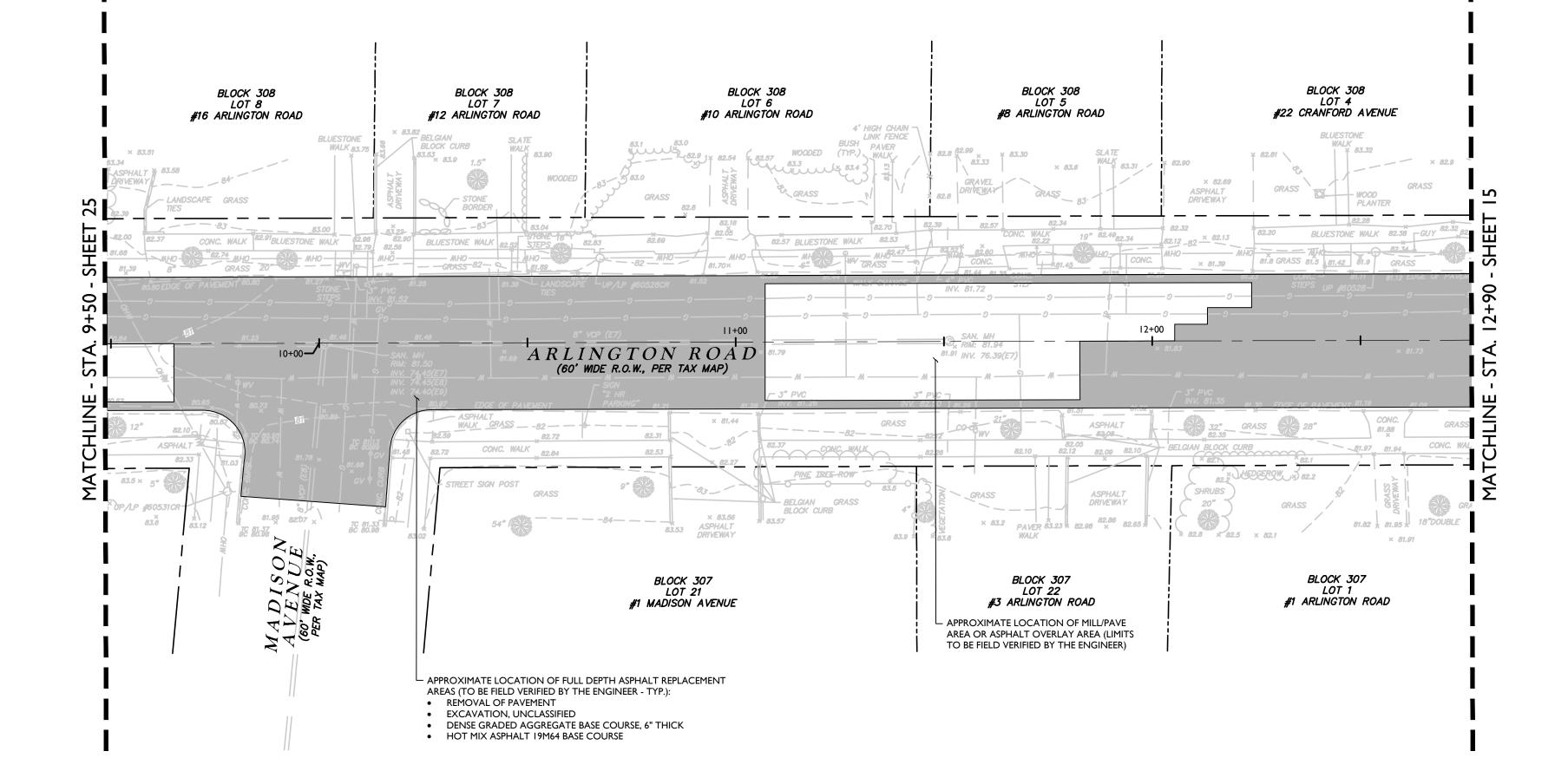


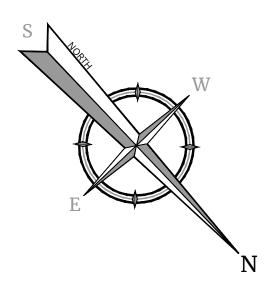


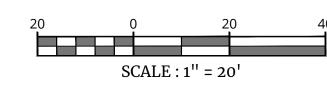


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CONSTRUCTION PLANS FOR CRANFORD AVENUE DRAINAGE IMPROVEMENTS			
TOWNSHIP OF CRANFORD UNION COUNTY NEW JERSEY			
Colliers       MT. ARLINGTON         Lengineering & Design       400 Valley Road, Suite 304         Mt. Arlington, NJ 07856       Phone: 973.398.3110         Colliers Engineering & Design       Colliers Engineering & DESIGN, INC. DOING BUSINEES AS MASER CONSULTING         SCALE:       DATE:       DRAWN BY:       CHECKED BY:			
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sheet number: 24 of 39			









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<section-header><section-header>         FOR         CRANFORD AVENUE         DRAINAGE         DRAINAGE         JUNDROVEMENTS    Constant of the second second</section-header></section-header>	Carl P. O'Brien NEW JERSEY LICENSED PROFESSIONAL ENGINEER LICENSE NUMBER: GE45154 COLLIERS ENGINEERING & DESIGN, INC.				
UNION COUNTY NEW JERSEY         MT. ARLINGTON 400 Valley Road, Suite 304 Mt. Arlington, NJ 07856         Engineering & Design       MT. ARLINGTON 400 Valley Road, Suite 304 Mt. Arlington, NJ 07856         Phone: 973.398.3110       Colliers Engineering & Design, INC. DOING BUSINESS AS MASER CONSULTING         SCALE:       DATE:       DRAWN BY:       CHECKED BY:         AS SHOWN       12/16/2022       AP       PC         PROJECT NUMBER:       DRAWING NAME:       C-LAYT         SHEET TITLE:       FULL DEPTH RECONSTRUCTION MAP -	FOR CRANFORD AVENUE DRAINAGE				
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AS SHOWN 12/16/2022 AP PC PROJECT NUMBER: DRAWING NAME: CDT0082 C-LAYT SHEET TITLE: FULL DEPTH RECONSTRUCTION MAP -	Colliers400 Valley Road, Suite 304EngineeringMt. Arlington, NJ 07856EngineeringPhone: 973.398.3110& DesignCOLLIERS ENGINEERING & DESIGN, INC.				
<b>RECONSTRUCTION MAP -</b>	AS SHOWN 12/16/2022 AP PC PROJECT NUMBER: DRAWING NAME: CDT0082 C-LAYT SHEET TITLE:				
sheet number: 26 of 39	FULL DEPTH RECONSTRUCTION MAP - ARLINGTON ROAD				

	SOMERSET-UNION SOIL CONSERVATION	PE	RMANENT SEEDING SPECIFICATIONS		
	DISTRICT NOTES	Ι.	SITE PREPARATION		
١.	MCNJ-SOIL-NOTE-1013 ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO		A. INSTALL EROSION CONTROL MEASURES AND FACILITIES SUCH AS SILT FENCE, DIVERSIONS, SEDIMENT BASINS, CHANNEL STABILIZATION, ETC. SEE STANDARDS 11 THROUGH 42.	EXIST GROU	'ING — JND
2.	ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A	2.	B. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, MULCH ANCHORING AND MAINTENANCE. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING. SEEDBED PREPARATION		NN
3.	RATE OF TWO (2) TONS PER ACRE, ACCORDING TO NJ STATE STANDARDS. PERMANENT VEGETATION SHALL BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH WILL BE USED FOR PROTETION UNTIL SEEDING IS ESTABLISHED.		A. APPLY A UNIFORM 5 INCHES (UNSETTLED) OF TOPSOIL IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING OVER ALL DISTURBED AREAS. SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING PH OF 5.0 OR MORE IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOIL.		
4.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NJ STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, 7TH EDITION LAST REVISED JANUARY 2014.		B. TOPSOIL SHOULD BE HANDLED ONLY WHEN DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE.		IG GROUI NOTE I)
	A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OR PRELIMINARY GRADING. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING ALL CRITICAL AREAS SUBJECT TO EROSION (I.E.: STEEP SLOPES, ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE		C. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE IN ACCORDANCE WITH THE TABLE BELOW AND THE RESULTS OF SOIL TESTING. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND	_	
	EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO THE NJ STATE STANDARDS.		SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. THE TABLE BELOW IS A GENERAL GUIDELINE FOR LIMESTONE APPLICATION RATES. LIMESTONE APPLICATION RATE BY SOIL TEXTURE		
	ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E.: SLOPES GREATER THAT 3:1) TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 50'X30'X6''PAD OF I		SOIL TEXTURETONS/ACRELBS/1,000 SQ. FT.CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL3135SANDY LOAM, LOAM, SILT LOAM290	1	NOT 1
0.	1/2" OR 2" STONE, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.		LOAMY SAND, SAND I 45 D. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS		
	THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING 48 HOURS IN ADVANCE OF NAY LAND DISTURBING ACTIVITY.		PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.)		
10.	AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED. TOP SOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES.	3.	E. WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF APPROXIMATELY 4 INCHES. THE FINAL HARROWING OR DISC OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED. F. REMOVE FROM THE SURFACE ALL STONES 2 INCHES OR LARGER IN ANY DIMENSION AND OTHER DEBRIS SUCH AS WIRE, TREE ROOTS, PIECES OF CONCRETE, CLODS LUMPS OR OTHER UNSUITABLE MATERIAL. SEEDING		
11.	IN THAT NJSA 4:24-39 ET SEQ., REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.		<ul> <li>A. SELECT THE SEED MIXTURE AS SPECIFIED ON THIS SHEET AND APPLY AS NOTED WITHIN THE DATES SPECIFIED IN THE STANDARD.</li> <li>B. <u>CONVENTIONAL SEEDING</u> IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT</li> </ul>		AN
12.	CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.		MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL. C. <u>HYDROSEEDING</u> IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND MOUNTED TANK,	_	
13.	ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT NJ STATE SOIL EROSION & SEDIMENT CONTROL STANDARDS.		WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING <u>SEED</u> , <u>WATER</u> AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4 MULCHING		
14.	THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.		BELOW) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL	~	
15.	MULCHING TO THE NJ STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT OF COMPLIANCE. CONDITIONALS ARE ONLY ISSUED WHEN THE SEASON PROHIBITS SEEDING.		EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC. D. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY AND IMPROVE SEEDLING	3	
16.	CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURING LIFE OF CONSTRUCTION PROJECT.		EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.	)	NOT 1
17.	THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION AT THE REQUEST OF THE SOMERSET-UNION SOIL CONSERVATION DISTRICT.	4.	MULCHING A. MULCHING IS REQUIRED ON ALL SEEDING.		
18.	HYDRO SEEDING IS A TWO- STEP PROCESS. THE FIRST STEP INCLUDES SEED, FERTILIZER, LIME, ETC., ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE CONSISTENCY, GOOD SEED TO SOIL CONTACT, AND GIVE A VISUAL INDICATION OF COVERAGE. UPON COMPLETION OF SEEDING OPERATION, HYDRO-MULCH SHOULD BE APPLIED AT A RATE OF 1500 LBS. PER ACRE IN SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE NJ STANDARDS.		B. <u>STRAW OR HAY</u> - UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF I-I/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER I,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED. STRAW OR HAY MULCH MUST BE ANCHORED IMMEDIATELY AFTER PLACEMENT USING PEG AND TWINE, MULCH NETTING, MECHANICAL CRIMPER OR LIQUID MULCH BINDERS IN ACCORDANCE WITH THE STANDARD.		
	CONSTRUCTION SEQUENCE		C. <u>WOOD-FIBER OR PAPER-FIBER MULCH</u> - SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED		

- SITE CLEARING - COMPLETE MILLING OPERATIONS - INSTALL STORM SEWER STRUCTURES AND PIPES - COMPLETE GRADING - SIDEWALK - INSTALL CURB RAMPS AND CURBING - COMPLETE PAVING OPERATIONS - UNIFORMLY APPLY TOPSOIL TO AVERAGE DEPTH OF 5", MINIMUM OF 4", FIRMED IN PLACE - TOPSOILING, FERTILIZING, SEEDING AND STRAW MULCHING - REMOVAL OF SOIL EROSION & SEDIMENT CONTROL MEASURES NOTE: TOTAL ESTIMATED PROJECT DURATION: 12 WEEKS THIS SCHEDULE IS FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY.

IMPLEMENTATION OF SOIL EROSION & SEDIMENT CONTROL MEASURES INCLUDING:

I DAY

I DAY

2 WEEKS

4 WEEKS

I WEEK

I WEEK

I WEEK

I WEEK

I WEEK

I DAY

I DAY

I DAY

### STOCKPILE

- INLET FILTERS

- CAUTION FENCE

CONSTRUCT IMPROVEMENTS:

I. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF-SITE. NO EXCAVATED MATERIAL SHALL BE STOCKPILED AND STORED WITHIN THE PROJECT LIMITS.

TOTAL PROJECT AREA OF DISTURBANCE = 102,240 SF OR 2.34 ACRES

DUST CONTROL NOTES

OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT

MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT

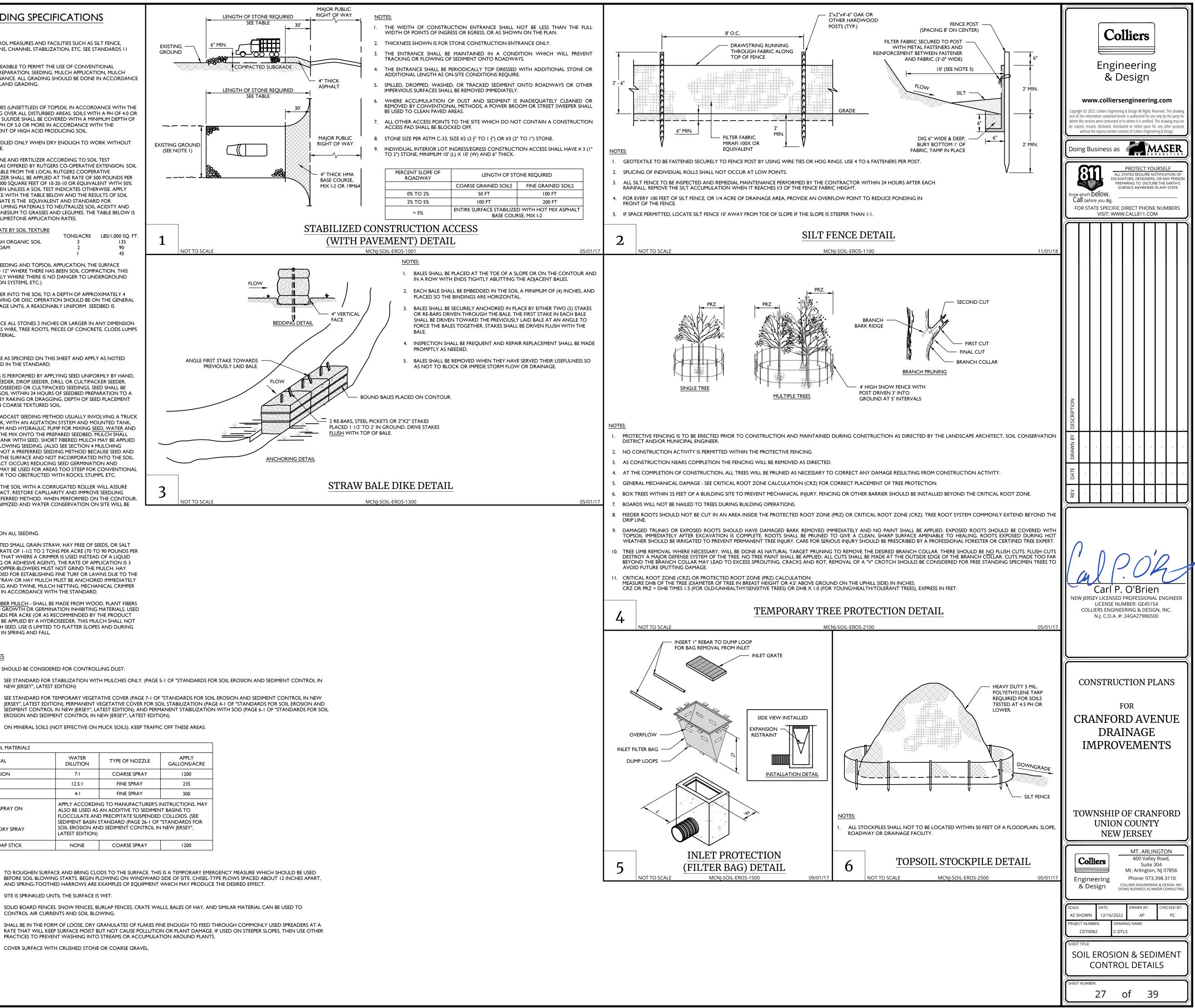
BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING

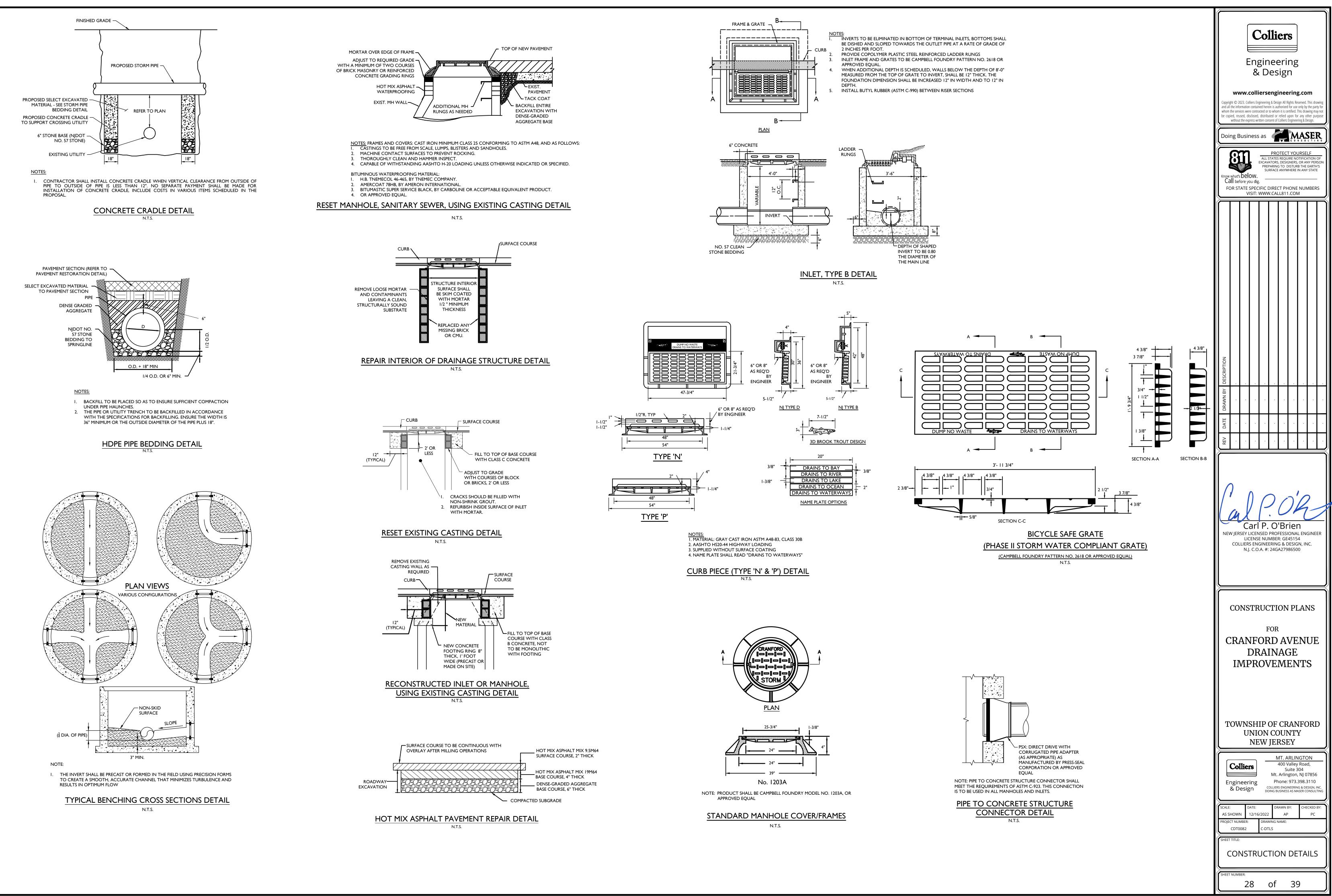
THE FOLLOWING METHO	DS SHOULD BE CONSIDER	ED FOR CONTROLI	LING DUST:	
MULCHES	SEE STANDARD FOR S NEW JERSEY", LATEST I		'H MULCHES ONLY. (PAGE )	5-1 OF "STAND
VEGETATIVE COVER	JERSEY", LATEST EDITIC SEDIMENT CONTROL	ON), PERMANENT V IN NEW JERSEY", LA	ATIVE COVER (PAGE 7-1 OF regetative cover for sc itest edition), and perm new jersey", latest editi	DIL STABILIZAT 1ANENT STABI
SPRAY-ON ADHESIVES	ON MINERAL SOILS (N	OT EFFECTIVE ON I	MUCK SOILS). KEEP TRAFFI	C OFF THESE A
TABLE 16-1: DUST CONT	ROL MATERIALS			

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APF GALLON
ANIAONIC ASPHALT EMULSION	7:1	COARSE SPRAY	120
LATEX EMULSION	12.5:1	FINE SPRAY	23
RESIN IN WATER	4:1	FINE SPRAY	30
POLYACRYLAMIDE (PAM) - SPRAY ON	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIC ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS		
POLYACRYLAMIDE (PAM) - DRY SPRAY	SEDIMENT BASIN STANDARD (PAGE 26-1 OF "STANDA SOIL EROSION AND SEDIMENT CONTROL IN NEW JER LATEST EDITION)		
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	120

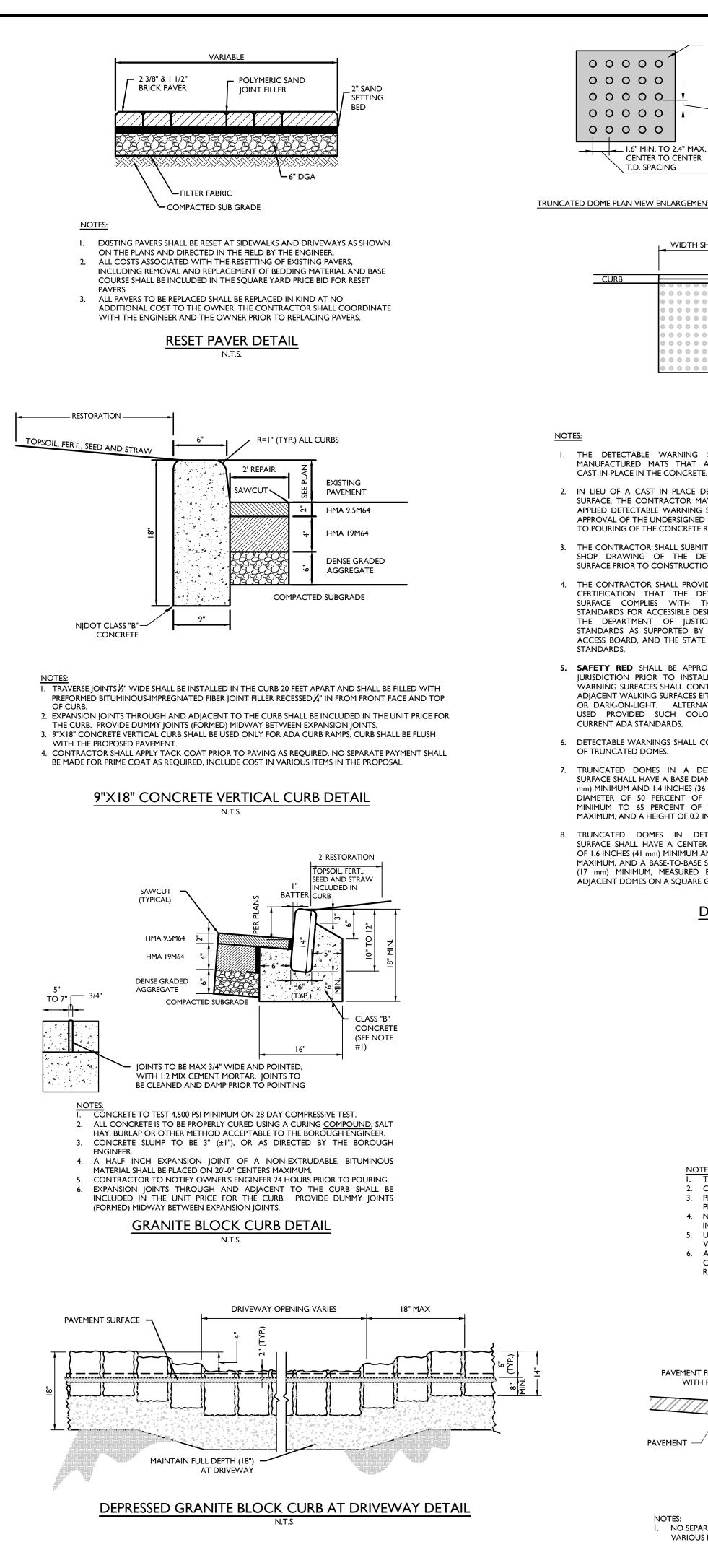
LLAGE	TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPO BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SIT AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MA
RINKLING	SITE IS SPRINKLED UNTIL THE SURFACE IS WET.
ARRIERS	SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES CONTROL AIR CURRENTS AND SOIL BLOWING.
ALCIUM CHLORIDE	SHALL BE IN THE FORM OF LOOSE, DRY GRANULATES OF FLAKES FINE ENOUGH

COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. STONE





NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



COLOR COATING (SHADED AREA) OR APPROVED EQUAL (SEE NOTE 5) DOME (T.D.) 0.65" MIN. BASE TO BASE T.D. SPACING

TRUNCATED DOME PLAN VIEW ENLARGEMENT

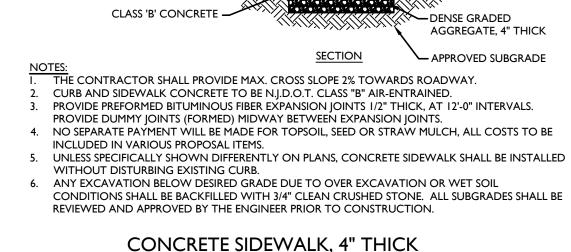
CENTER TO CENTER

T.D. SPACING

	WIDTH SHALL EXTEND ACROSS
	FLUSH CU
CURB	

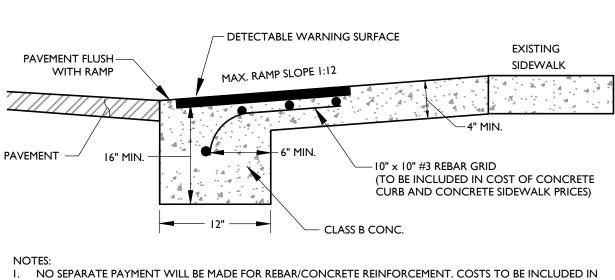
PLAN VIEW AND ELEVATION

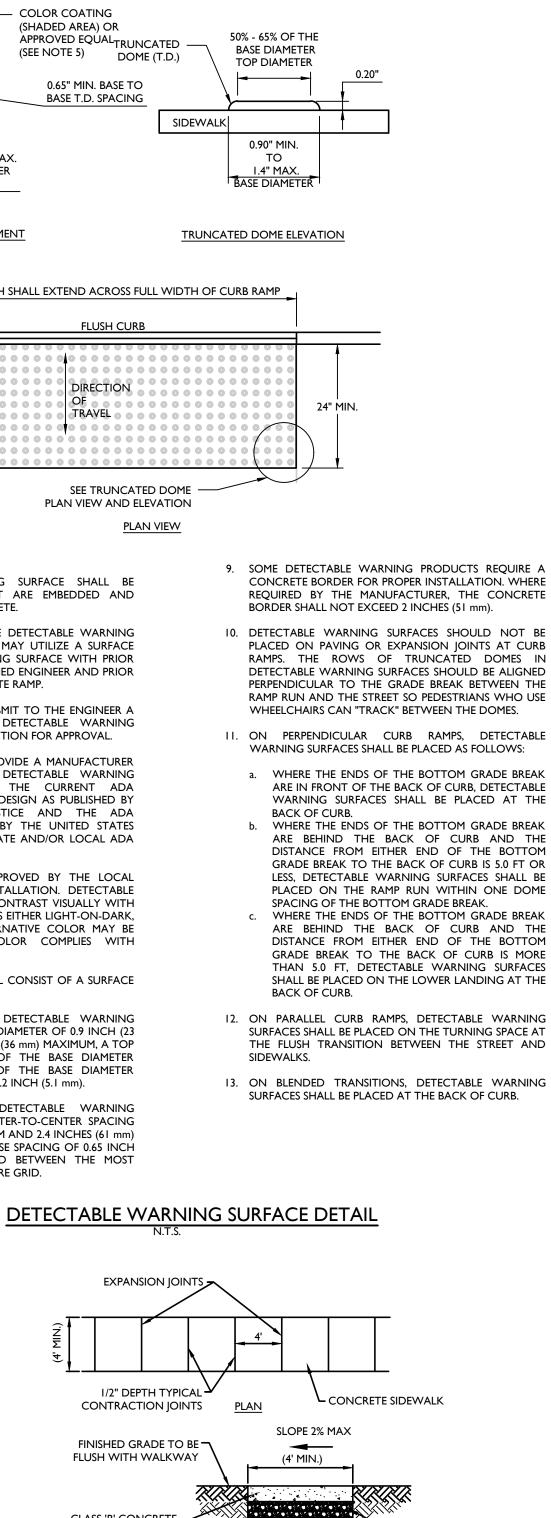
- I. THE DETECTABLE WARNING SURFACE SHALL BE MANUFACTURED MATS THAT ARE EMBEDDED AND CAST-IN-PLACE IN THE CONCRETE.
- 2. IN LIEU OF A CAST IN PLACE DETECTABLE WARNING SURFACE, THE CONTRACTOR MAY UTILIZE A SURFACE APPLIED DETECTABLE WARNING SURFACE WITH PRIOR APPROVAL OF THE UNDERSIGNED ENGINEER AND PRIOR TO POURING OF THE CONCRETE RAMP.
- 3. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A SHOP DRAWING OF THE DETECTABLE WARNING SURFACE PRIOR TO CONSTRUCTION FOR APPROVAL.
- 4. THE CONTRACTOR SHALL PROVIDE A MANUFACTURER CERTIFICATION THAT THE DETECTABLE WARNING SURFACE COMPLIES WITH THE CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN AS PUBLISHED BY THE DEPARTMENT OF JUSTICE AND THE ADA STANDARDS AS SUPPORTED BY THE UNITED STATES ACCESS BOARD, AND THE STATE AND/OR LOCAL ADA STANDARDS.
- 5. SAFETY RED SHALL BE APPROVED BY THE LOCAL JURISDICTION PRIOR TO INSTALLATION. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. ALTERNATIVE COLOR MAY BE USED PROVIDED SUCH COLOR COMPLIES WITH CURRENT ADA STANDARDS
- 6. DETECTABLE WARNINGS SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES.
- 7. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9 INCH (23 mm) MINIMUM AND 1.4 INCHES (36 mm) MAXIMUM, A TOP DIAMETER OF 50 PERCENT OF THE BASE DIAMETER MINIMUM TO 65 PERCENT OF THE BASE DIAMETER MAXIMUM, AND A HEIGHT OF 0.2 INCH (5.1 mm).
- 8. TRUNCATED DOMES IN DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6 INCHES (41 mm) MINIMUM AND 2.4 INCHES (61 mm) MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCH (17 mm) MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID.

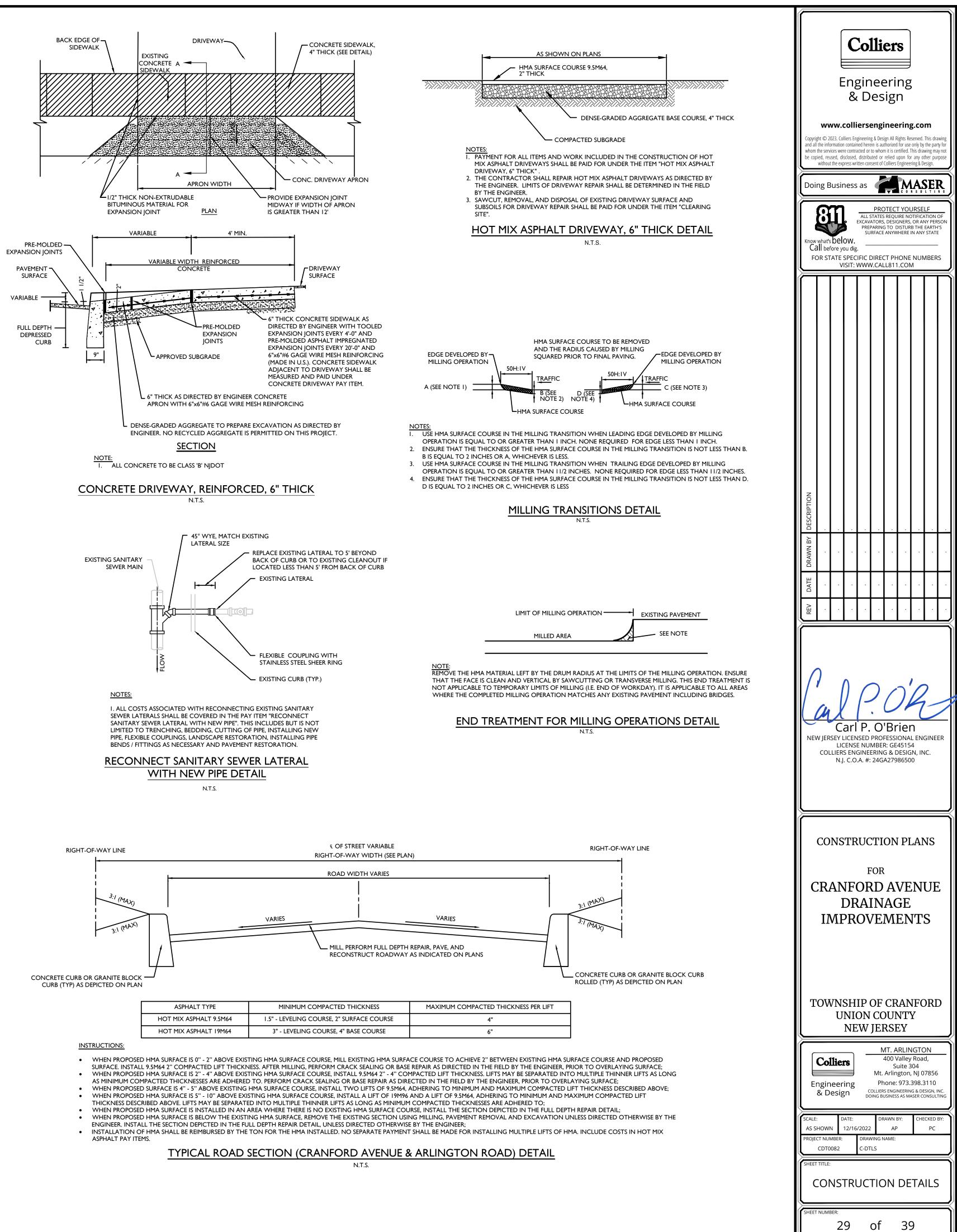


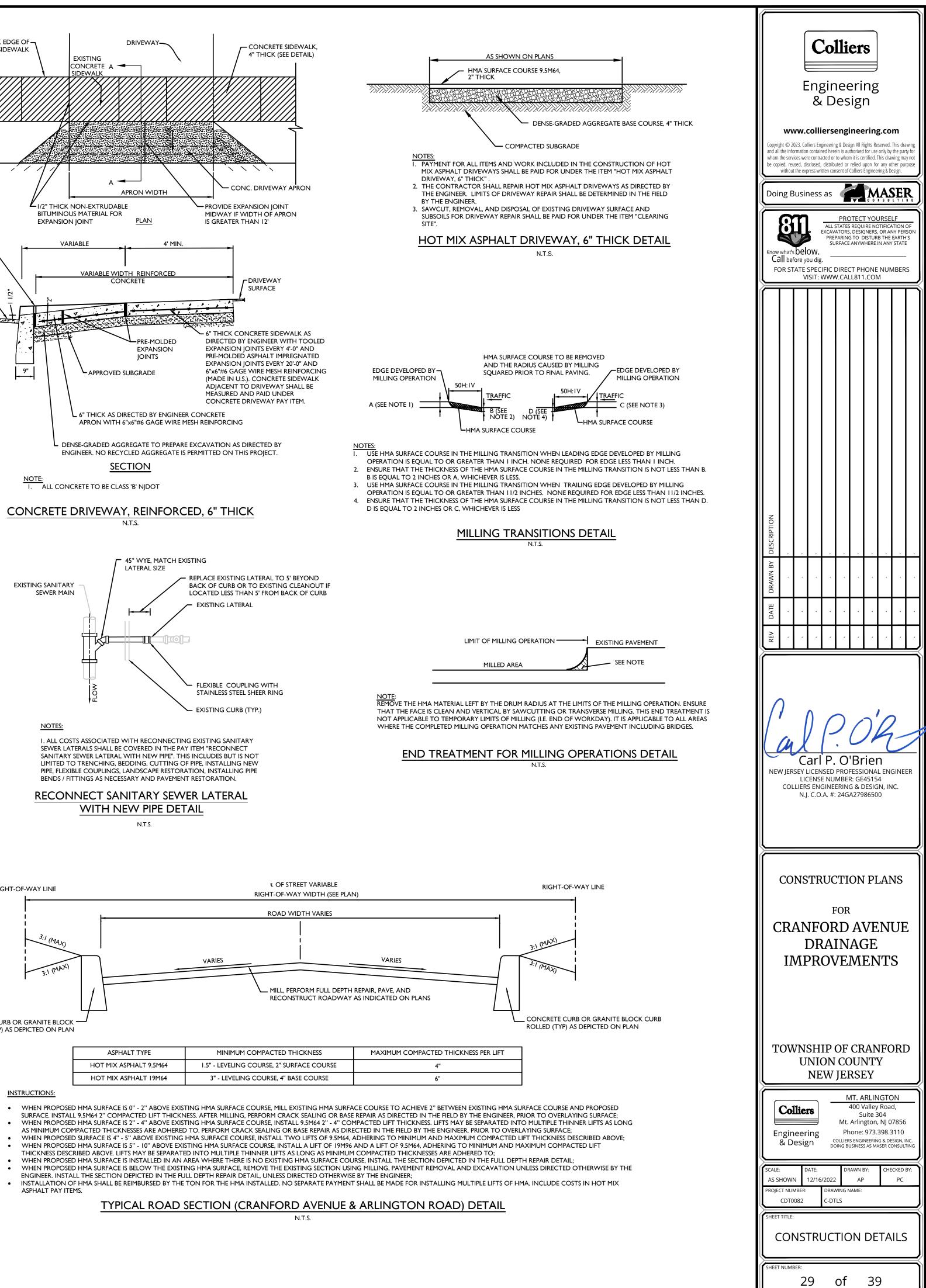
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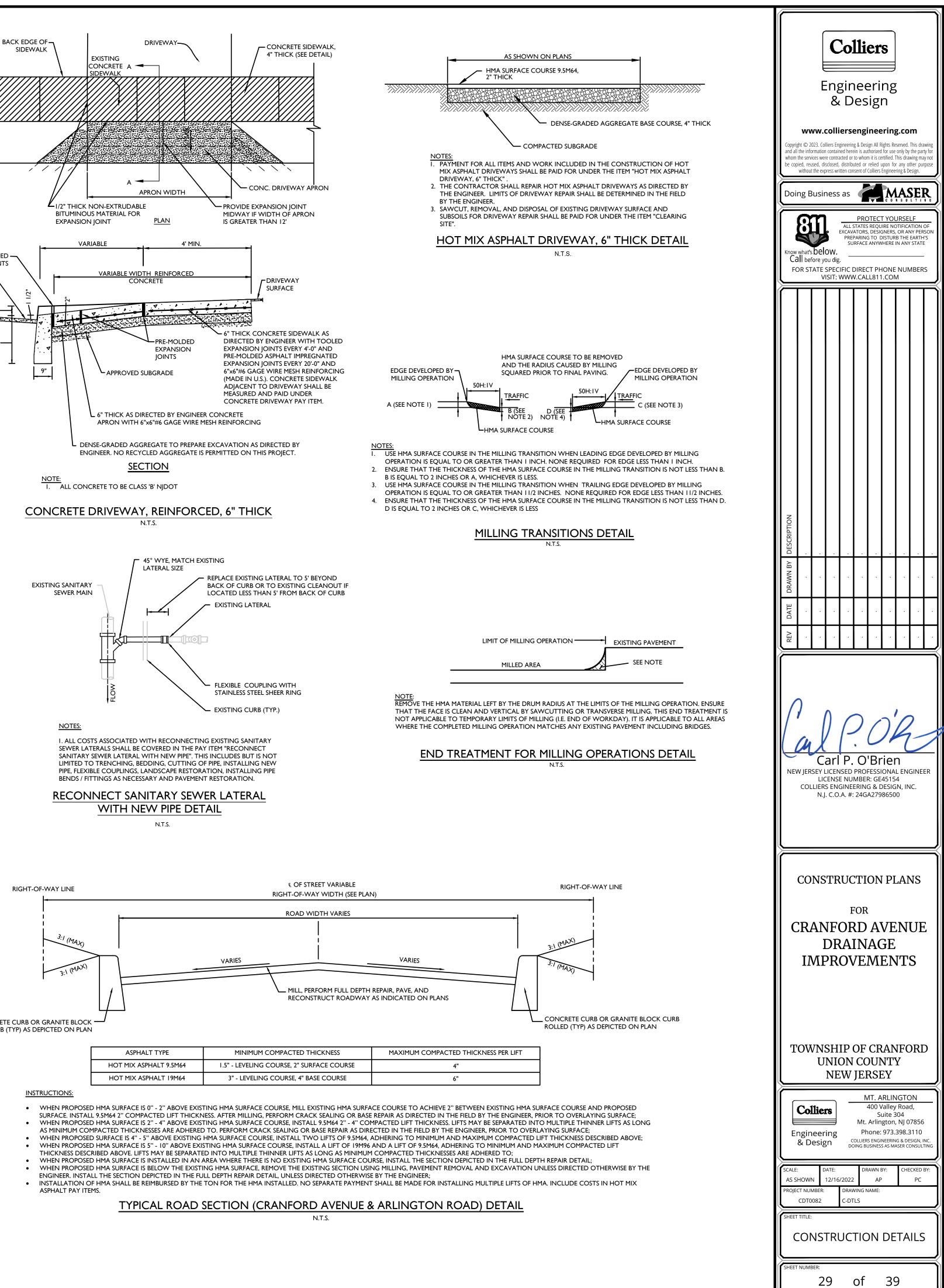
VARIOUS PROPOSAL ITEMS.





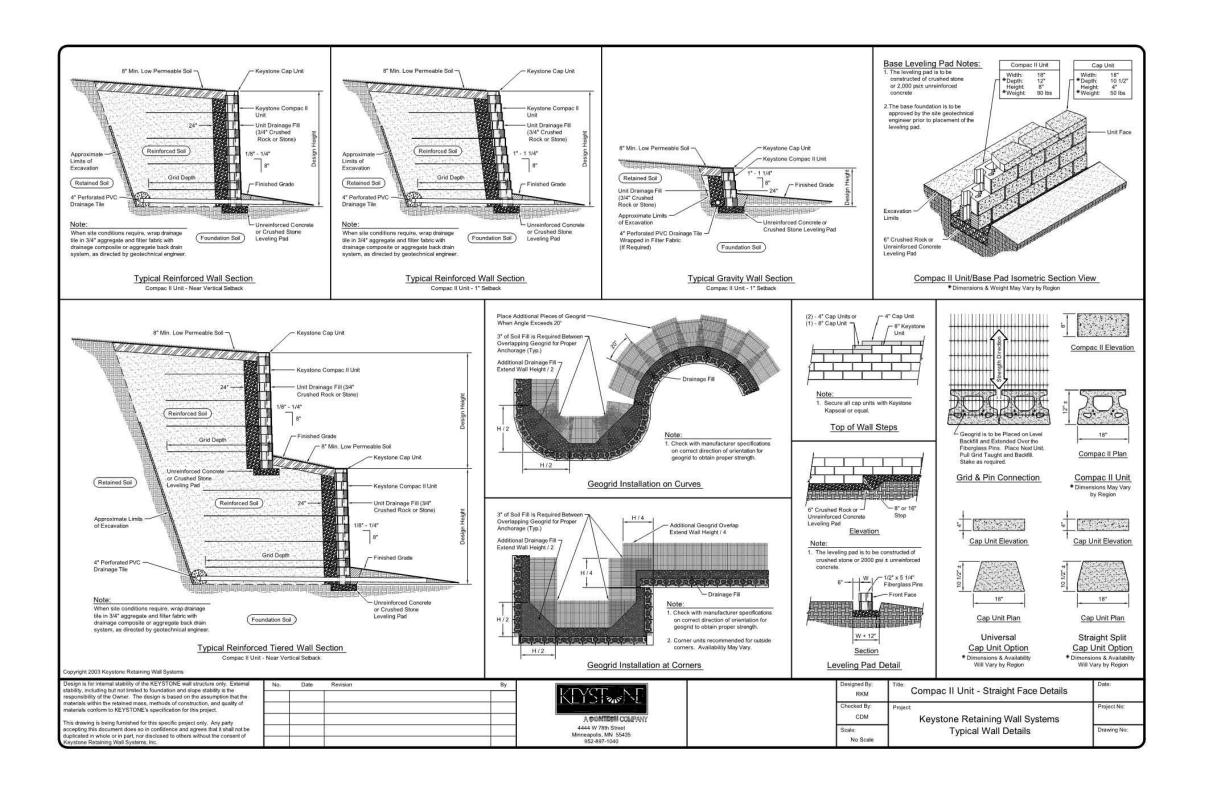






		HOT MIX ASPHALT	9.5M64	1.5" - LEVELIN	IG COURSE, 2" SURF	ACE COURSE	
		HOT MIX ASPHALT	Г I9M64	3" - LEVEL	ING COURSE, 4" BAS	SE COURSE	
<u>۱۱</u> • • • • •	SURFACE. INSTALI WHEN PROPOSEE AS MINIMUM CON WHEN PROPOSEE WHEN PROPOSEE THICKNESS DESCI WHEN PROPOSEE WHEN PROPOSEE ENGINEER. INSTAL	D HMA SURFACE IS 0" - 2' L 9.5M64 2" COMPACTED D HMA SURFACE IS 2" - 4' MPACTED THICKNESSES / D SURFACE IS 4" - 5" ABO D HMA SURFACE IS 5" - 10 RIBED ABOVE. LIFTS MAY D HMA SURFACE IS INSTA D HMA SURFACE IS BELO' LL THE SECTION DEPICT F HMA SHALL BE REIMBU MS.	) LIFT THICKN " ABOVE EXIST ARE ADHERED IVE EXISTING H O" ABOVE EXIS " BE SEPARATE ALLED IN AN A W THE EXISTIN ED IN THE FUI	ess. After Millin Ting HMA Surfac To. Perform Cr HMA Surface CC Ting HMA Surfa D INTO Multiple REA WHERE THEF NG HMA SURFACE L DEPTH REPAIR	IG, PERFORM CRACK CE COURSE, INSTALL ACK SEALING OR B. DURSE, INSTALL TWO CE COURSE, INSTAL THINNER LIFTS AS I RE IS NO EXISTING H E, REMOVE THE EXIST DETAIL, UNLESS DIR	SEALING OR B _ 9.5M64 2" - 4" ( ASE REPAIR AS I D LIFTS OF 9.5M LL A LIFT OF 19N LONG AS MINIM HMA SURFACE O TING SECTION ECTED OTHER\	ASE REF COMPA DIRECTE 64, ADH 196 ANE 10M CC COURSE USING I WISE BY
		TYPICAL	ROAD S	SECTION (	CRANFORD	) AVENUI	E & A
					N	N.T.S.	

ADA RAMP DETAIL N.T.S.

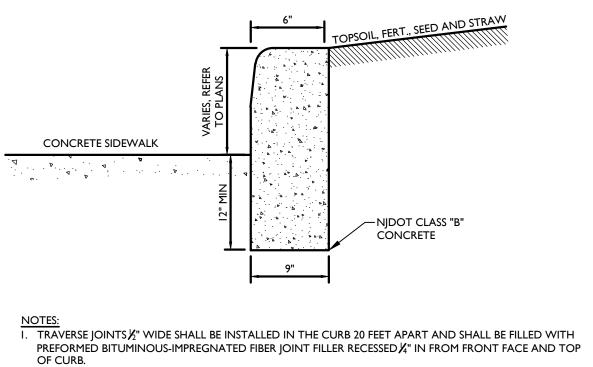


### NOTES:

- SHOP DRAWINGS FOR WALL DESIGN SHALL BE SIGNED AND SEALED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER.
- 2. RETAINING WALL TO BE COMPAC II UNIT STRAIGHT FACE, AS MANUFACTURED BY KEYSTONE RETAINING WALL SYSTEMS, OR APPROVED EQUAL. 3. THE CAP UNIT SHALL BE ADHERED TO THE WALL WITH AN APPROPRIATE CONSTRUCTION ADHESIVE RECOMMENDED BY THE
- MANUFACTURER. 4. THE COLOR AND TEXTURE OF THE WALL SHALL BE SELECTED BY THE OWNER AND THE ENGINEER DURING SHOP DRAWING REVIEW.

MODULAR BLOCK RETAINING WALL WITH MATCHING CAP DETAIL

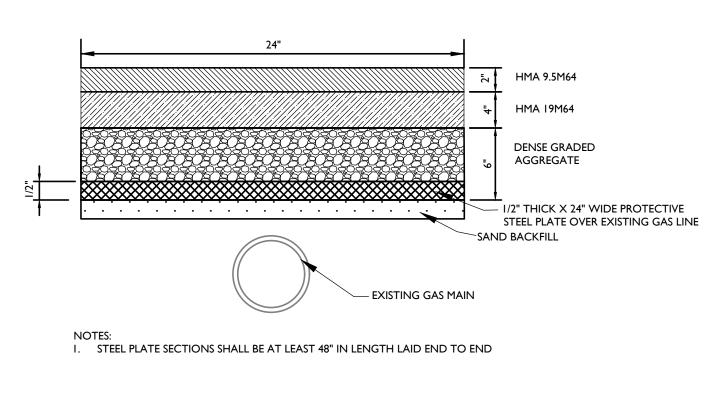
N.T.S.



OF CURB. 2. EXPANSION JOINTS THROUGH AND ADJACENT TO THE CURB SHALL BE INCLUDED IN THE UNIT PRICE

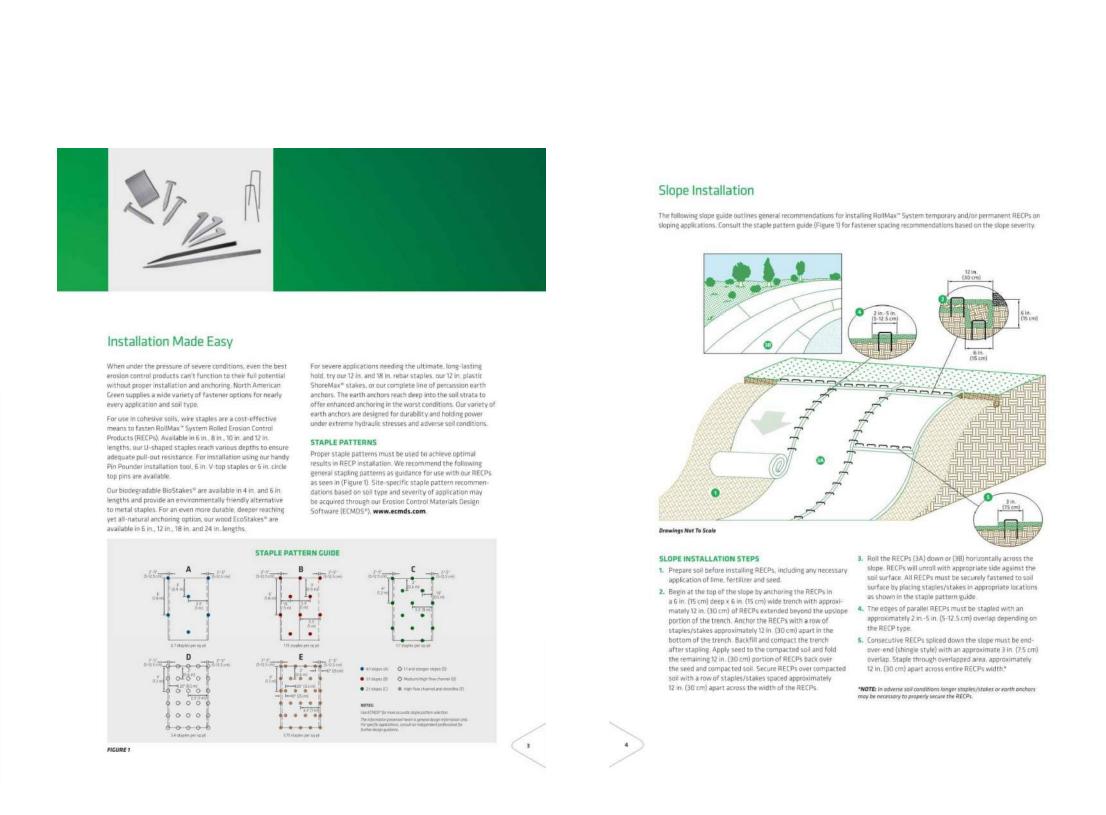
FOR THE CURB. PROVIDE DUMMY JOINTS (FORMED) MIDWAY BETWEEN EXPANSION JOINTS. 3. WHERE CURB REVEAL EXCEEDS 12", EMBEDMENT DEPTH SHALL MEET OR EXCEED CURB REVEAL.





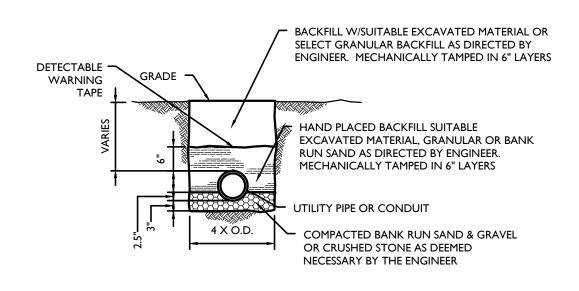
PROTECTIVE STEEL PLATE DETAIL N.T.S.

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	ROLLMA						
~	ROLLED EROSION	LUNIRUL		NEW DAY THE	A STATISTICS	1000	
and the second second second	ation Sheet		ontrol Blanket	1-40		ZAN	
		LIUSIONC	Untrol Dialiket	CHI CHA SHALL SHA		10-19 IV	and the second
DESCRIPTIO			the shall be a	Index Property	Test M	lethod	Typical
	-term double net ero uced mat of 70% ag			Thickness	ASTM D	6525	0.25 in. (6.35 mm)
fiber with a fu	nctional longevity o	f up to 18 month	s. (NOTE: functional	Resiliency		uidelines	86%
			ions, soil, geograph-	Water Absorbency	ASTM D		311% 8.32 oz/sy
	nd elevation). The b i the straw and coco			Mass/Unit Area	ASTM D		(282.9 g/sm)
	the mat. The blanke			Swell		Idelines	46%
	with a 100% biodeg			Smolder Resistance		uidelines	Yes
	etting shall consist wo intertwined yarr			Stiffness Light Penetration	ASTM D		0.42 oz-in
	rough the twisted n			-			201.6 lbs/ft
	ave) to form an appr			Tensile Strength - MD	ASTM D	6818	(2.99 kN/m)
	e blanket shall be se legradable thread. T			Elongation - MD	ASTM D	6818	13.4% 164.4 lbs/ft
	thread stitched alor			Tensile Strength - TD	ASTM D	6818	(2.44 kN/m)
2-5 inches [5-1	2.5 cm] from the ed	ee) as an overlag	quide for adjacent				44.94
			Some toi anlarent	Elongation - TD	ASTM D	6818	14.2%
mats.		-	guine foi aujacent	Biomass Improvement	ASTM D		14.2% 641 %
The SC150BN	shall meet Type 3,8	specification req	uirements estab-	Biomass Improvement	ASTM D	17322	641 %
The SC150BN lished by the E	shall meet Type 3,8 irosion Control Tech	specification req nology Council (E	uirements estab- CTC) and Federal	Biomass Improvement Design	ASTM D	7322 Shear St	641 % ress
The SC150BN lished by the E	shall meet Type 3.8 rosion Control Tech inistration's (FHWA	specification reg nology Council (E ) FP-03 Section	uirements estab- CTC) and Federal	Biomass Improvement	ASTM D	17322	641 % (1855 00 Pa)
The SC150BN lished by the E	shall meet Type 3.8 rosion Control Tech inistration's (FHWA Materi:	specification req nology Council (E ) FP-03 Section <b>al Content</b>	uirements estab- CTC) and Federal 713-17	Biomass Improvement Design Unvegetated Shear Stree	ASTM D	17322 <b>Shear St</b> 2.10 psf (1	641 % (1855 00 Pa)
The SC150BN lished by the E	shall meet Type 3.8 rosion Control Tech inistration's (FHWA	specification req nology Council (E ) FP-03 Section al Content	uirements estab- CTC) and Federal 713-17 3.35 lbs/sq yd 0.19 kg/sm)	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity	ASTM D	2.10 psf (1 8.00 fps (2	641 % (TESS) 00 Pa) 44 m/s)
The SC150BN lished by the E Highway Adm	shall meet Type 3.8 rosion Control Tech inistration's (FHWA Materi:	specification req nology Council (E ) FP-03 Section al Content	uirements estab- CTC) and Federal 713.17 0.35 lbs/sq vd	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity	ASTM D Permissible ss Design Dat	2.10 psf (1 8.00 fps (2	641 % <b>ress</b> 00 Pa) 44 m/s)
The SC150BN lished by the E Highway Adm	shall meet Type 3.8 rosion Control Tech inistration's (FHWA) Materi: 70% Straw Fiber 30% Coconut Fiber Top: Leno woven 100	specification req nology Council (E ) FP-03 Section al Content	uirements estab- CTC) and Federal 713.17 0.35 lbs/sq.vd 0.19 kg/sm) 0.19 kg/sm) 0.15 lbs/sq.vd (0.08 kg/sm) 35 lbs/100 sq.ft	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity	ASTM D Permissible ss Design Dat	7322 Shear St 2.10 psf (1 8.00 fps (2 ca: C Facto	641 % <b>ress</b> 00 Pa) 44 m/s)
The SC150BN lished by the E Highway Adm	shall meet Type 3.8 rosion Control Tech inistration's (FHWA Materia 70% Straw Fiber 30% Coconut Fiber	specification req nology Council (E ) FP-03 Section al Content	uirements estab- CTC) and Federal 713 17 0.35 lbs/sq vd 0.19 kg/sm) 1.5 lbs/sq vd (0.08 kg/sm)	Biomass Improvement Design Unvegetated Shear Stres Unvegetated Velocity Slope	ASTM D Permissible is Design Dat Sic	2322 2.10 psf (1 8.00 fps (2 ta: C Facto ape Gradien	641 % (CESS) 00 Pa) 44 m/s) 175 175
The SC150BN lished by the E Highway Adm Matrix Netting	shall meet Type 3.8 irosion Control Tech inistration's (FHWA Materi: 70% Straw Fiber 30% Coconut Fiber Top: Leno woven 100 biodegradable jute Bottom: 100% biode organic jute	specification req nology Council (E ) FP-03 Section al Content	uirements estab- CTC) and Federal 713 17 1.35 lbs/sq yd 0.79 kg/sm) 1.15 lbs/sq yd (0.08 kg/sm) 9.35 lb/1000 sq ft 4.5 kg/1000 sq ft 4.5 kg/100 sm)	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity Slope Length (L) \$ 20 ft (6 m) 20-50 ft	ASTM D Permissible ss Design Dat Sic s 3:1 0.001 0.051	2 Shear St 2.10 psf (1 8.00 fps (2 ca: C Facto ppe Gradien 3:1 - 2:1 0.029 0.055	641 % ress 00 Pa) 44 m/s) rs ss (5) 22:1 0.063 0.092
The SC150BN lished by the E Highway Adm Matrix	shall meet Type 3.8 rosion Control Tech inistration's (FHWA) Materi: 70% Straw Fiber 30% Coconut Fiber 30% Coconut Fiber Top: Leno woven 100 biodegradable jute Bottom: 100% biode	specification req nology Council (E ) FP-03 Section al Content	uirements estab- CTC) and Federal 713.17 0.35 lbs/sq vd 0.79 kg/sm) 1.75 lbs/sq vd (0.08 g/sm) 0.35 lb/1000 sq ft 4.5 kg/100 sm) 7.7 lb/1000 sq ft	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity Slope Length (L) s 20 ft (6 m)	ASTM D Permissible is Design Dat Sic s 3:1 0.001	2 Shear St 2.10 psf (1 8.00 fps (2 2.10 <b>c Facto</b> <b>ope Gradien</b> 3:1 - 2:1 0.029	641 % ress 00 Pa) 44 m/s) rs ts (5) 22:1 0.063
The SC150BN lished by the E Highway Adm Matrix Netting	shall meet Type 3,8 rosion Control Tech inistration's (FHWA) Materii 70% Straw Fiber 30% Coconut Fiber 30% Coconut Fiber Top: Leno woven 100 biodegradable jute Bottom: 100% biode organic jute Biodegradable	specification req nology Council (E ) FP-03 Section al Content	uirements estab- CTC) and Federal 713.17 0.35 lbs/sq vd 0.79 kg/sm) 1.75 lbs/sq vd (0.08 g/sm) 0.35 lb/1000 sq ft 4.5 kg/100 sm) 7.7 lb/1000 sq ft	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity Slope Length (L) \$20 ft (6 m) 20-50 ft \$50 ft (15.2 m)	ASTM D Permissible ss Design Dat Sic 4 3:1 0.001 0.051 0.10	77322 2.10 psf (1 8.00 fps (2 <b>c: C Facto</b> <b>ope Gradien</b> 3:1 - 2:1 0.029 0.055 0.080	641 % (CESS) 00 Pa) 44 m/S) (CESS) 2 211 0.063 0.092 0.120
The SC150BN lished by the E Highway Adm Matrix Netting	shall meet Type 3,8 rosion Control Tech inistration's (FHWA) Materii 70% Straw Fiber 30% Coconut Fiber 30% Coconut Fiber Top: Leno woven 100 biodegradable jute Bottom: 100% biode organic jute Biodegradable	specification req nology Council (E ) FP-03 Section al Content (% gradable	uirements estab- CTC) and Federal 713.17 0.35 lbs/sq vd 0.79 kg/sm) 1.75 lbs/sq vd (0.08 g/sm) 0.35 lb/1000 sq ft 4.5 kg/100 sm) 7.7 lb/1000 sq ft	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity Slope Length (L) \$ 20 ft (6 m) 20-50 ft \$ 50 ft (15.2 m) Roughn	ASTM D Permissible ss Design Dat Sic s 3:1 0.001 0.051	77322 2.10 psf (1 8.00 fps (2 43: C Facto ope Gradient 3:1 - 2:1 0.029 0.055 0.080 1ents - Un	641 % ress 00 Pa) 44 m/s) rs s (S) 2 21 0.063 0.092 0.120 vveg.
The SCISOBN lished by the E Highway Adm Matrix Netting Thread	shall meet Type 3.8 rosion Control Tech inistration's (FHWA) Materia 70% Straw Fiber 30% Coconut Fiber 30% Coconut Fiber Top: Leno woven 100 biodegradable jute Biodegradable Biodegradable Standard	specification req nology Council (E ) FP-03 Section al Content gradable gradable d Roll Sizes	uirements estab- CTC) and Federal 713.17 0.35 lbs/sq.vd 0.19 kg/sm) 1.15 lbs/sq.vd (0.08 g/sm) 9.35 lb/1000 sq ft 4.5 kg/100 sm) 7.7 lb/1000 sq ft 3.76 kg/100 sm)	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity Slope Length (L) ≤ 20 ft (6 m) 20-50 ft ≥ 50 ft (15.2 m) Roughn Flow Depth	ASTM D Permissible ss Design Dat Sic 4 3:1 0.001 0.051 0.10	27322 2.10 psf (1 2.00 psf (2 2.10 psf (2	641 % ress 00 Pa) 44 m/s) rs s (S) 2 21 0.063 0.092 0.120 vveg.
The SCISOBN lished by the E Highway Adm Matrix Netting Thread Width	shall meet Type 3.8 rosion Control Tech inistration's (FHWA) Materia 70% Straw Fiber 30% Coconut Fiber 30% Coconut Fiber Top: Leno woven 100 biodegradable jute Biodegradable erganic jute Biodegradable Standard 6.67 ft (2.03 m)	specification req nology Council (E ) FP-03 Section al Content gradable gradable 8.0.ft (2.4 m) 112 ft (34.14 m)	uirements estab- CTC) and Federal 713.17 0.35 lbs/sq vd 0.19 kg/sm) 1.15 lbs/sq vd (0.08 g/sm) 0.35 lb/1000 sq ft 4.5 kg/100 sm) 7.7 lb/1000 sq ft 3.76 kg/100 sm)	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity Slope Length (L) ≤ 20 ft (6 m) 20-50 ft ≥ 50 ft (15.2 m) Roughn Flow Depth ≤ 0.50 ft (0.15 m)	ASTM D Permissible ss Design Dat Sic 4 3:1 0.001 0.051 0.10	27322 2.10 psf (* 8.00 fps (2) 2.12 C Factor 2.12 C Factor 2.	641 % 000 Pa) 000 Pa) 444 m/s) 775 2 2:1 0.063 0.092 0.720 VVEQ, n
The SCI50BN lished by the E Highway Adm Matrix Netting Thread Width Length	shall meet Type 3,8 rosion Control Tech inistration's (FHWA) <b>Materi:</b> 70% Straw Fiber 30% Coconut Fiber Top: Leno woven 100 biodegradable jute Biodegradable jute Biodegradable <b>Standare</b> 6.67 ft (2.03 m) 108 ft (32.92 m) 52.22 lbs (23.69 kg)	specification req nology Council (E ) FP-03 Section al Content al Content (%) gradable 8.0 ft (24 m) 112 ft (34.14 m) 55.28 lbs (29.6 kg 100 sq.vd	uirements estab- CTC) and Federal 713.17 3.35 lbs/sq.vd 0.79 kg/sm) 3.55 lbs/sq.vd 0.08 kg/sm) 3.55 lbs/sq.vd 0.08 kg/100 sm) 7.7 lb/1000 sq ft 3.76 kg/100 sm) 16 ft (4.87 m) 112 ft (34.14 m) 1130.5 lbs (59.2 kg) 200 sq.vd	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity Slope Length (L) ≤ 20 ft (6 m) 20-50 ft ≥ 50 ft (15.2 m) Roughn Flow Depth	ASTM D Permissible ss Design Dat Sic 4 3:1 0.001 0.051 0.10	27322 2.10 psf (1 2.00 psf (2 2.10 psf (2	641 % 000 Pa) 000 Pa) 444 m/s) 775 2 2:1 0.063 0.092 0.720 VVEQ, n
The SCI50BN lished by the E Highway Adm Matrix Netting Thread Width Length Weight ± 10%	shall meet Type 3,8 rosion Control Tech inistration's (FHWA) <b>Materi:</b> 70% Straw Fiber 30% Coconut Fiber Top: Leno woven 100 biodegradable jute Biodegradable jute Biodegradable <b>Standeard</b> 6.67 ft (2.03 m) 108 ft (32.92 m) 52.22 lbs (23.69 kg) 80 sq vd (66.9 sm)	specification req nology Council (E ) FP-03 Section al Content gradable gradable 8.0 ft (2.4 m) 112 ft (34.14 m) 55.28 lbs (29.6 kg 100 sq vd (83.61 sm)	uirements estab- CTC) and Federal 713.17 2.35 lbs/sq.yd 0.19 kg/sm) 1.15 lbs/sq.yd (0.08 g/sm) 3.35 lb1/1000 sq ft 4.5 kg/100 sm) 7.16/1000 sq ft 3.76 kg/100 sm) 16 ft (4.87 m) 112 ft (34.14 m) () 130.5 lbs (59.2 kg) 200 sq yd 200 sq yd (167.22 sm)	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity Siope Length (L) \$ 20 ft (6 m) 20-50 ft \$ 50 ft (15.2 m) Roughn Flow Depth \$ 0.50 ft (0.15 m) 0.50 - 2.0 ft	ASTM D Permissible ss Design Dat Sic 4 3:1 0.001 0.051 0.10	2322 2.10 psf (1 8.00 fps (2 3:1 - 2:1 0.029 0.055 0.080 ients - Un Manning's 0.050 0.050-0.01	641 % 000 Pa) 000 Pa) 444 m/s) 775 2 2:1 0.063 0.092 0.720 VVEQ, n
The SCI50BN lished by the E Highway Adm Matrix Netting Thread Width Length Weight ± 10%	shall meet Type 3,8 rosion Control Tech inistration's (FHWA) <b>Materi:</b> 70% Straw Fiber 30% Coconut Fiber Top: Leno woven 100 biodegradable jute Biodegradable jute Biodegradable <b>Standare</b> 6.67 ft (2.03 m) 108 ft (32.92 m) 52.22 lbs (23.69 kg)	specification req nology Council (E ) FP-03 Section al Content al Content (%) gradable 8.0 ft (24 m) 112 ft (34.14 m) 55.28 lbs (29.6 kg 100 sq.vd	uirements estab- CTC) and Federal 713.17 3.35 lbs/sq.vd 0.79 kg/sm) 3.55 lbs/sq.vd 0.08 kg/sm) 3.55 lbs/sq.vd 0.08 kg/100 sm) 7.7 lb/1000 sq ft 3.76 kg/100 sm) 16 ft (4.87 m) 112 ft (34.14 m) 1130.5 lbs (59.2 kg) 200 sq.vd	Biomass Improvement Design Unvegetated Shear Stree Unvegetated Velocity Siope Length (L) \$ 20 ft (6 m) 20-50 ft \$ 50 ft (15.2 m) Roughn Flow Depth \$ 0.50 ft (0.15 m) 0.50 - 2.0 ft	ASTM D Permissible ss Design Dat Sic 4 3:1 0.001 0.051 0.10	2322 2.10 psf (1 8.00 fps (2 3:1 - 2:1 0.029 0.055 0.080 ients - Un Manning's 0.050 0.050-0.01	641 % 000 Pa) 000 Pa) 444 m/s) 775 2 2:1 0.063 0.092 0.720 VVEQ, n



NOTES:

I. STAKES FOR EROSION CONTROL BLANKETS SHALL BE 100% BIODEGRADABLE FROM MICROBIAL ACTIVITY IN ACCORDANCE WITH ASTM D5338 AND ASTM D5271. EROSION CONTROL BLANKET DETAIL N.T.S.

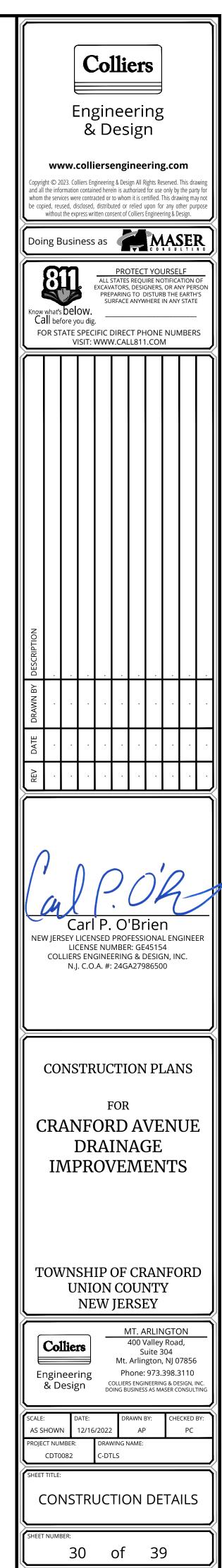


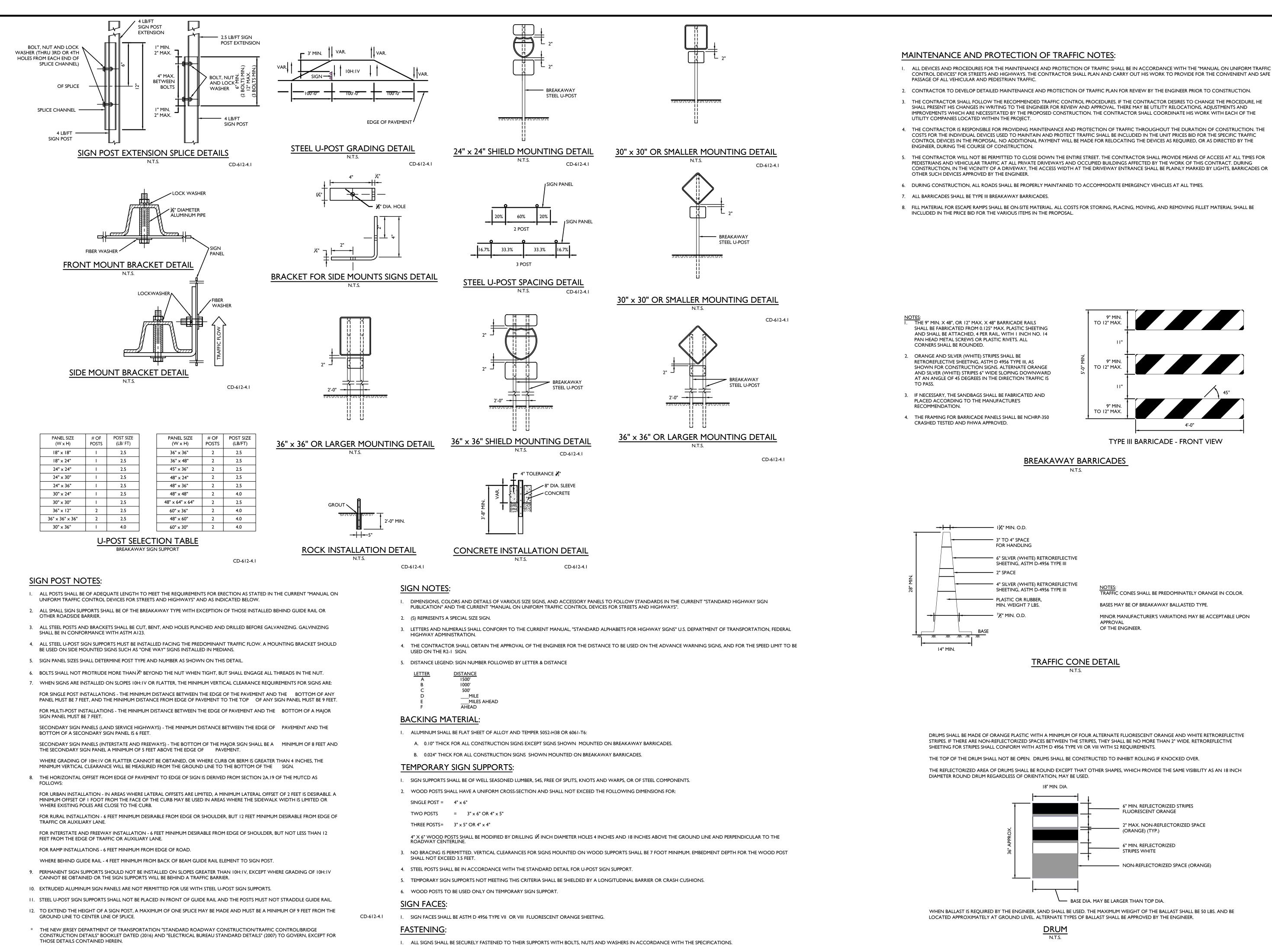
NOTES: I. INSTALLATION SHALL BE AS PER THE UTILITY COMPANY, CRANFORD BUILDING DEPARTMENT, CRANFORD DEPARTMENT OF PUBLIC WORKS AND ENGINEER REQUIREMENTS.

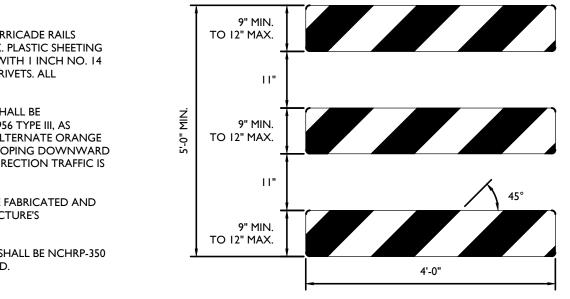
UTILITY SERVICE DETAILS

I. STAKES FOR EROSION CONTROL BLANKETS SHALL BE 100% BIODEGRADABLE FROM MICROBIAL ACTIVITY IN ACCORDANCE WITH ASTM D5338 AND ASTM D5271. **EROSION CONTROL BLANKET INSTALLATION DETAIL** N.T.S.

NOTES:







TRAFFIC CONES SHALL BE PREDOMINATELY ORANGE IN COLOR. MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON

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- BREAKAWAY BARRICADES
- BREAKAWAY BARRICADES WITH SIGN
- CONSTRUCTION SIGNS
- DRUMS
- CONE

PRECAST CONCRETE CURB CONSTRUCTION BARRIER (TYPE SPECIFIED) DIRECTION OF TRAFFIC FLOW

TRAFFIC DIRECTOR, FLAGGER

TRAILER MOUNTED MOUNTED ARROW BOARD SHOWING CAUTION MODE

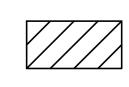
ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING ARROW PATTERN (Left, Right, Both)

TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING CAUTION MODE

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)

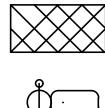


222000

LEFT RIGHT BOTH

LEFT RIGHT BOTH

BUFFER ZONE



WORK AREA

PAINT STRIPING TRUCK OR OTHER OPERATING VEHICLE



## GENERAL NOTES:

- 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 BE IN PLACE.
- 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 AHEAD) AS A MINIMUM.
- 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 COVERED.
- 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 CONSTRUCTION.
- 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. TRAFFIC SAFETY SERVICES SHALL BE USED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL.
- 15. 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.
- 16. WHERE REQUIRED, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN CROSSING LOCATIONS AND TYPE AS DIRECTED BY THE RE.
- 17. 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.
- 18. 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.
- 19. 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..
- 20. 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.
- 21. 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.
- 22. 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.
- 23. 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.

- THE CLOSURES.

- A. TERMS:

- B. ADVANCE NOTICES

- DEPARTMENT.

24. 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

25. CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE RE.

26. TRAFFIC IMPACT NOTICES AND CHANGES

WHEN THE FOLLOWING TERMS ARE USED, THE INTENT AND MEANING SHALL BE AS FOLLOWS:

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

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

"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

REQUEST FOR A CHANGE TO THE TRAFFIC CONTROL REQUIREMENTS IN THE CONTRACT DOCUMENTS SHALL BE 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.

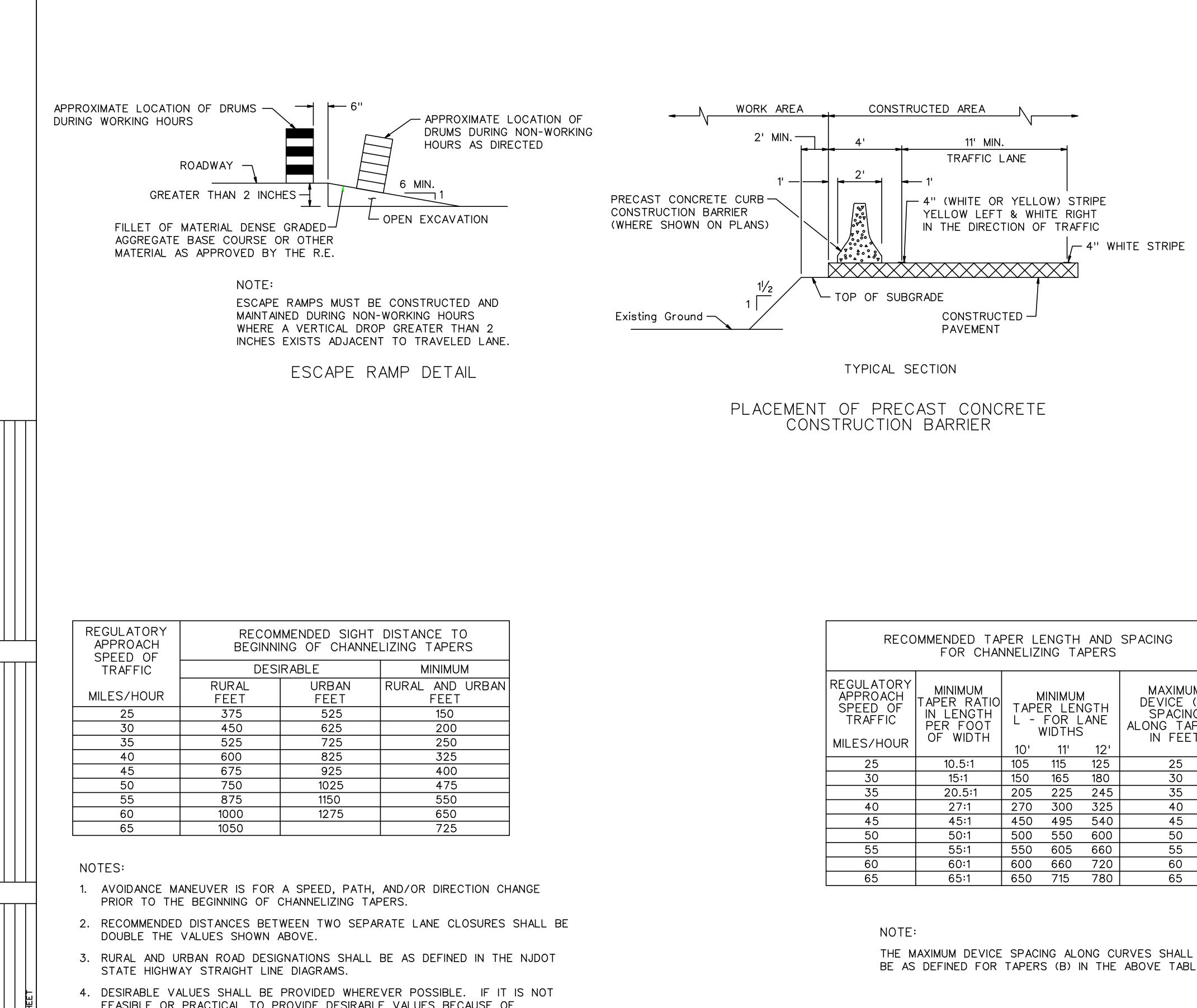
TCD-1

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3Q

TRAFFIC CONTROL DETAILS

NEW JERSEY DEPARTMENT OF TRANSPORTATION

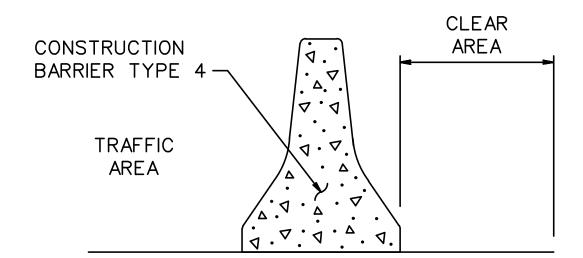


FEASIBLE OR PRACTICAL TO PROVIDE DESIRABLE VALUES BECAUSE OF HORIZONTAL OR VERTICAL CURVATURE OR IF RELOCATION OF THE TAPER IS NOT POSSIBLE, THEN MINIMUM VALUES CAN BE APPLIED. WHEN MINIMUM VALUES ARE USED, SPECIAL ATTENTION SHOULD BE GIVEN TO THE USE OF SUITABLE TRAFFIC CONTROL DEVICES FOR PROVIDING ADVANCED WARNING OF THE CONDITIONS THAT ARE LIKELY TO BE ENCOUNTERED.

5. TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.

RECC	MMENDED TAN FOR CHAN				SPACING	RECOMMENDED SPACING ALONG TANGENTS
REGULATORY APPROACH SPEED OF TRAFFIC MILES/HOUR	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	TAPE L -	MINIMUN ER LEN FOR L WIDTHS	IGTH ANE	MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET
		10'	11'	12'		
25	10.5:1	105	115	125	25	50
30	15:1	150	165	180	30	60
35	20.5:1	205	225	245	35	70
40	27:1	270	300	325	40	80
45	45:1	450	495	540	45	90
50	50:1	500	550	600	50	100
55	55:1	550	605	660	55	110
60	60:1	600	660	720	60	120
65	65:1	650	715	780	65	130

BE AS DEFINED FOR TAPERS (B) IN THE ABOVE TABLE.



NOTES:

- 1. CHANGES TO THE PROPOSED JOINT CLASS AT ANY LOCATION MUST BE APPROVED BY THE DEPT.
- 2. NO ROADWAY DROP OFFS, OBSTRUCTIONS, STORAGE OF MATERIALS OR WORK WILL BE PERMITTED IN THE CLEAR AREA UNLESS APPROVED BY THE R.E.

STAGE		LOCATION		JOINT CLASS
	RTE.	STA. STA.	ТО	

JOINT CLASS	CLEAR AREA
А	20 INCHES
В	16 INCHES
С	11 INCHES

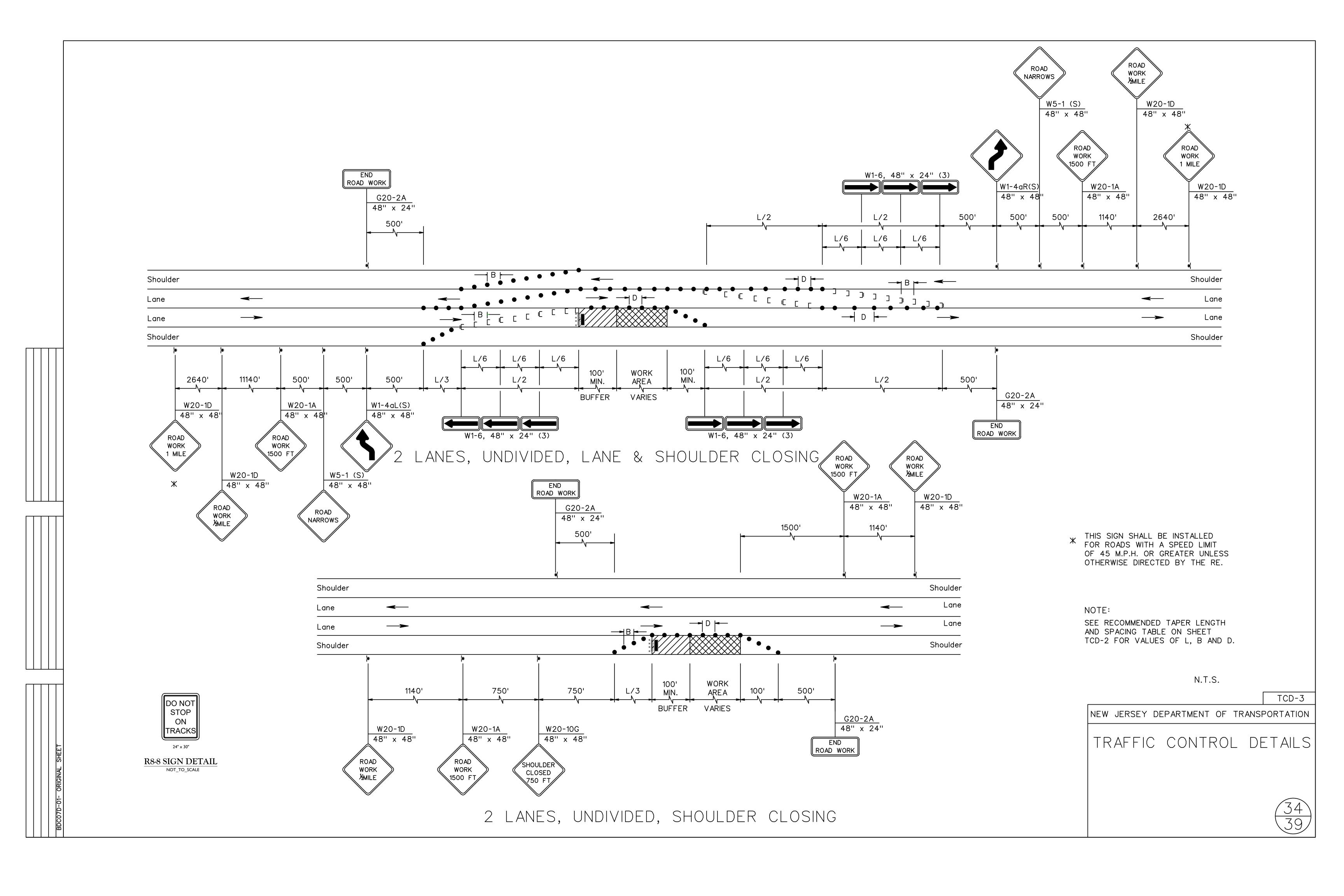
CONSTRUCTION BARRIER, TYPE 4 JOINT CLASS AND CLEAR AREA

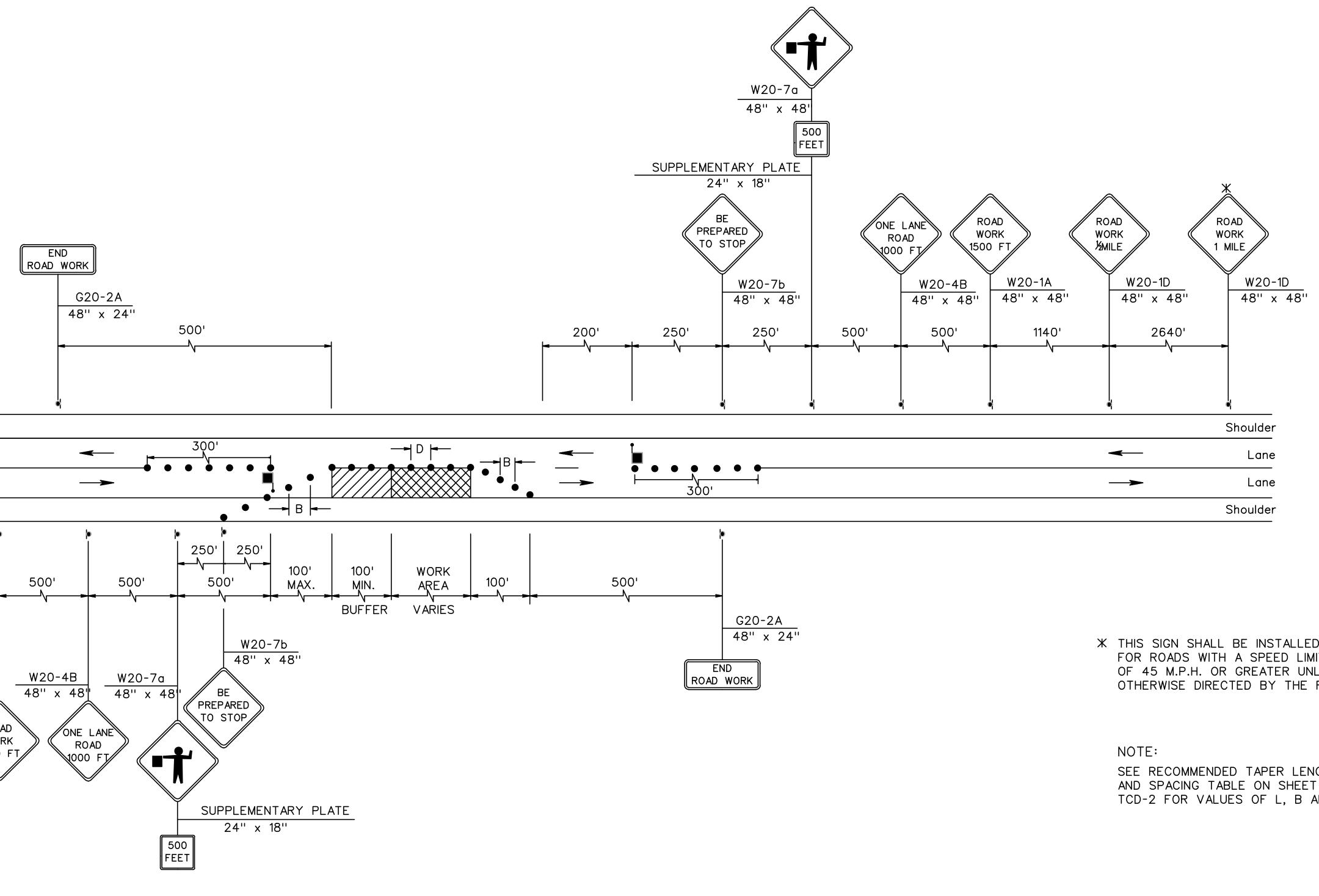
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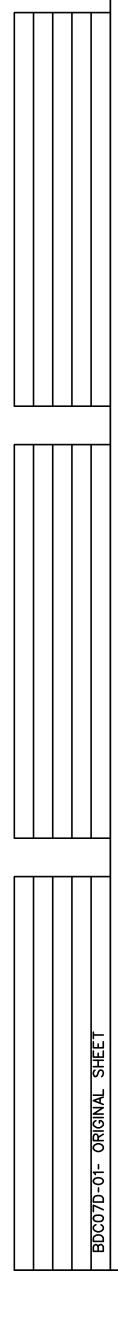
NEW JERSEY DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL DETAILS

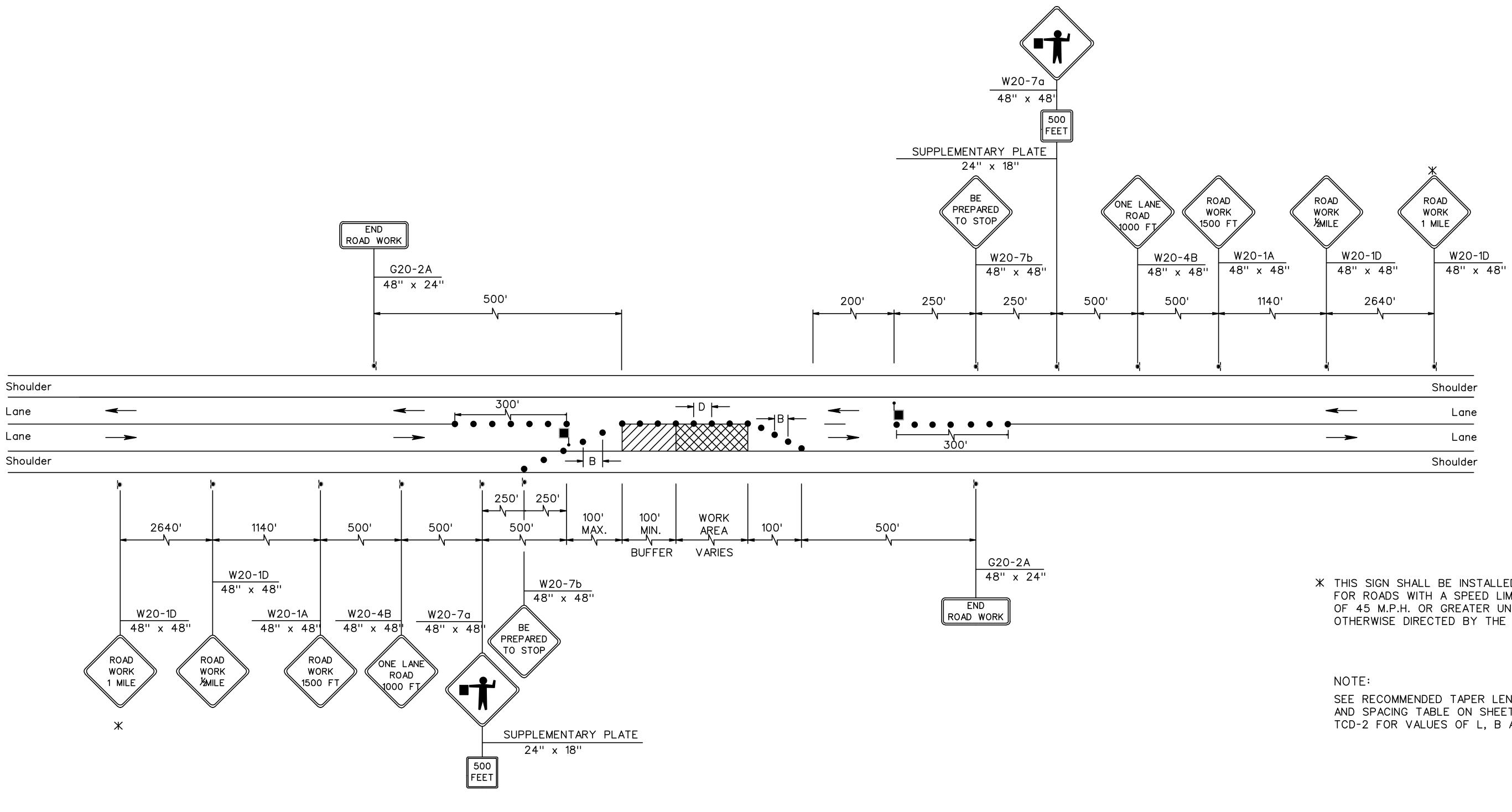


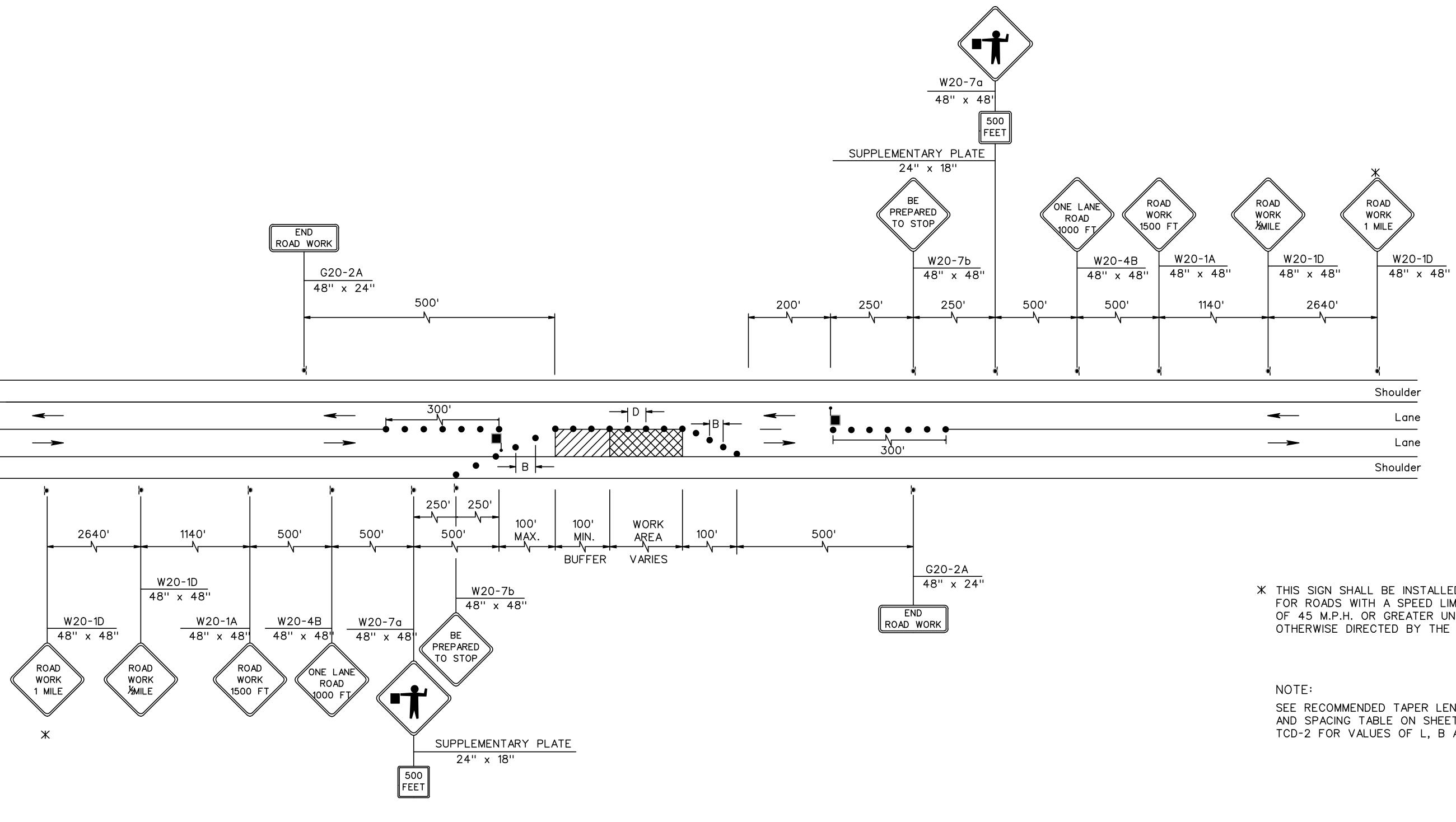
TCD-2











2 LANES, UNDIVIDED, LANE & SHOULDER CLOSING W/FLAGGING

X THIS SIGN SHALL BE INSTALLED FOR ROADS WITH A SPEED LIMIT OF 45 M.P.H. OR GREATER UNLESS OTHERWISE DIRECTED BY THE RE.

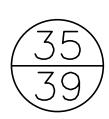
SEE RECOMMENDED TAPER LENGTH TCD-2 FOR VALUES OF L, B AND D.

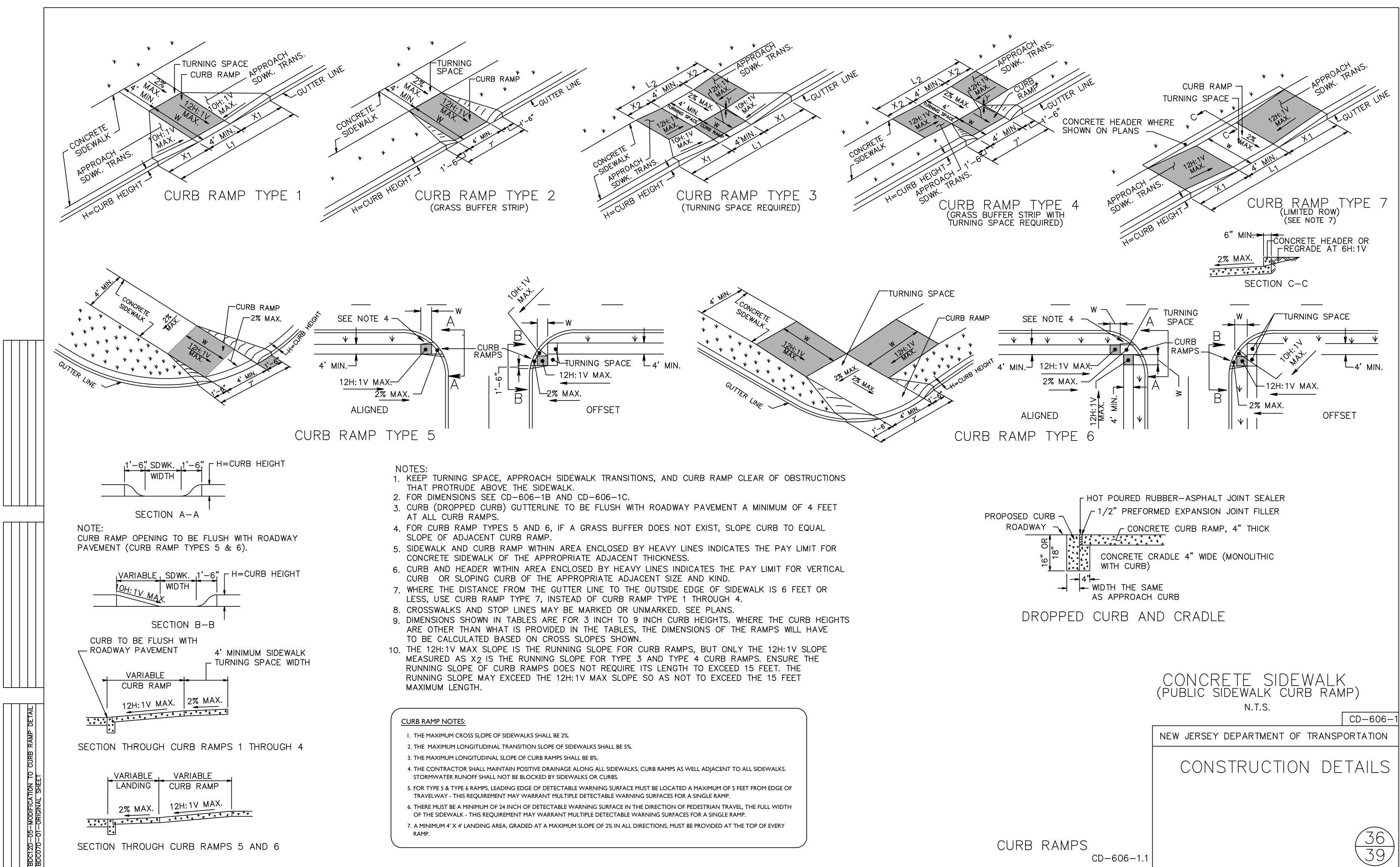
N.T.S.

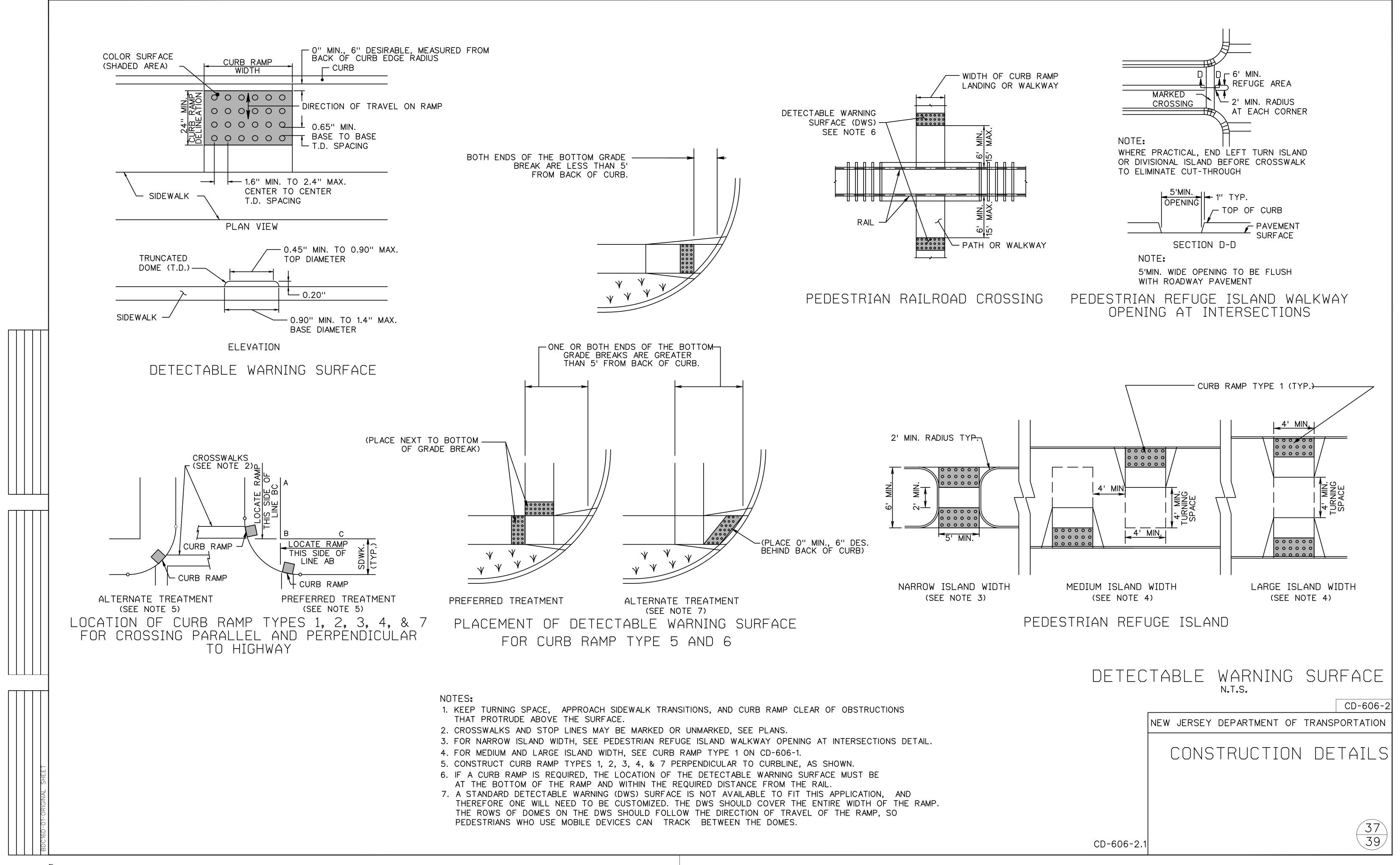
TCD-4

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS









0.0 /	WI	V			0.0	) % GUT	TER LINE P	ROFILE						1.0	% GUTTER	R LINE PRO	DFILE		·····				2.0	% GUTTE	ER LINE PR	OFILE						3.0	% GUTT	ER LINE PRO	DFILE	<u></u>			
IES	FEET	FEET	FEET	FEET	H	W FEET	X <sub>1ປ</sub> FEET	X <sub>11</sub> FEET	L <sub>1</sub> FEET	Y INCHES	X <sub>2U</sub> FEET	X <sub>2L</sub> FEET	L <sub>2</sub> FEET	H	W FEET	X <sub>1U</sub> FEET	X <sub>1L</sub> FEET	L <sub>1</sub> FEET	Y INCHES	Χ <sub>2υ</sub> FEET	X <sub>21</sub> FEET	L <sub>2</sub> FEET	H	W FEET	X <sub>1U</sub> FEET	X <sub>1i</sub> FEET	L <sub>1</sub> FEET	Y INCHES	X <sub>2ປ</sub> FEET	X <sub>2L</sub> FEET	L <sub>2</sub> FEET	H INCHES	W FEET	X <sub>1U</sub> FEET	X <sub>1i</sub> FEET	L <sub>1</sub> FEET	Y	X <sub>2U</sub> FEET	X <sub>zı.</sub> FEET
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	5	4.17	4.17 5.00	12.33 14.00	5	-	4.17	4.17	12.33		2.91	2.91	9.82 11.83	5	2.75	4.63	3.79	12.42	3 7F	3.31	2.60	9.91	5		5.21	3.47	12.68		3.83	2.35	10.18	5		5.95	3.21	13.16		4.55	2.14
	7	5.83 6.67	5.83 6.67	15.67 17.33	7	2.75	5.00 5.83	5.00 5.83	15.67		3.91 4.91	3.91 4.91	13.83	7	2.75	5.56 6.48	4.55 5.30	14.10 15.78	2.75	4.45 5.58	3.49 4.39	11.94 13.97	7	2.75	6.25 7.29	4.17 4.86	14.42 16.15	2.75	5.15 6.47	3.16 3.96	12.30 14.43	7	2.75	7.14 8.33	3.85 4.49	14.99 16.82	2.75	6.11 7.68	2.88 3.61
	9	7.50	7.50	19.00	8	-	6.67 7.50	6.67 7.50			5.91 6.91	5.91 6.91	15.83 17.83	8		7.41 8.33	6.06 6.82	<u>17.47</u> 19.15		6.72 7.86	5.28 6.17	16.00 18.03	8 9		8.33 9.38	5.56 6.25	17.89 19.63		7.78 9.10	4.77 5.58	16.55 18.67	8 9	·.	9.52 10.71	5.13 5.77	18.65 20.48		9.24 10.81	4.35 5.08
1.0 %		R LINE PI	OFILE		3		*	*	* 10.67		*	* 1.72	* 7.44	3		2.78 3.70	2.27 3.03	9.05 10.73		0.82 1.96	0.64 1.54	5.46 7.49	3		3.13 4.17	2.08 2.78	9.21 10.94		0.95	0.58 1.39	5.53 7.65	3	-	<u>3.57</u> 4.76	1.92 2.56	9.49 11.33	· ·	1.13 2.69	0.53 1.27
ES	FEET	FEET	FEET	L <sub>1</sub> FEET	5	- - 	4.17	4.17			2.72 3.72	2.72 3.72	9.44 11.45	5	30	4.63 5.56	3.79 4.55	12.42 14.10	30	3.09 4.23	2.43	9.52 11.55	5	30	5.21 6.25	3.47 4.17	12.68 14.42	3.0	3.58 4.90	2.20 3.00	9.78 11.90	5	30	5.95 7.14	3.21 3.85	13.16 14.99	3.0	4.25 5.82	2.00
	3 4	2.78 3.70	2.27 3.03	9.05 10.73	7	-	5.83	5.83	15.67		4.72	4.72	13.45 15.45	7		6.48	5.30	15.78 17.47	3.0	5.37	4.22 5.32	13.58	7		7.29	4.86	16.15 17.89		6.22 7.53	3.81 4.62	14.02 16.15	7		8.33	4.49	16.82	3.0	7.38	3.47
	5	4.63 5.56	3.79 4.55	12.42 14.10	9	_	7.50	7.50			6.72	6.72	17.45	9		7.41 8.33	6.82	19.15		7.64	6.00	17.64	9		9.38	6.25	19.63		8.85	5.42	18.27	9	- 	9.52 10.71	5.13 5.77	18.65 20.48		8.94 10.51	4.21 4.94
_	7	6.48 <b>7.</b> 41	5.30 6.06	15.78 17.47	4	-	*	3.33	10.67		*	1.34	÷ 6.68	4		2.78 3.70	2.27 3.03	9.05 10.73		0.39 1.53	0.30 1.20	4.69 6.72	4		3.13 4.17	2.08	9.21 10.94	-	0.45 1.77	0.28 1.08	4.72 6.85	3		3.57 4.76	1.92 2.56	9.49 11.33		0.53 2.10	0.25 0.9 <del>9</del>
	9	8.33	6.82	19.15	5	3.5	4.17 5.00	4.17 5.00		3.5	2.34 3.34	2.34 3.34	8.68 10.69	5	3.5	4.63 5.56	3.79 4.55	12.42 14.10	3.5	2.66 3.80	2.09 2.98	8.75 10.78	5	3.5	5.21 6.25	3.47 4.17	12.68 14.42	3.5	3.08 4.40	1.89 2.70	8.97 11.09	5	3.5	5.95 7.14	3.21 3.85	13.16 14.99	3.5	3.66 5.22	1.72 2.46
	6 GUTTER				7	-	5.83 6.67	5.83 6.67		-	4.34 5.34	4.34 5.34	12.69 14.69	7		6.48 7.41	5.30 6.06	15.78 17.47		4.94 6.07	3.88 4.77	12.81 14.84	7	-	7.29 8.33	4.86 5.56	16.15 17.89		5.72 7.03	3.50 4.31	13.22 15.34	7		8.33 9.52	4.49 5.13	16.82 18.65		6.79 8.35	3.19 3.93
ES	W FEET	FEET	X <sub>11</sub> FEET	L <sub>1</sub> FEET	9		7.50	7.50	19.00	·····	6.34 *	6.34 *	16.69 *	9		8.33 *	6.82 *	19.15 *		7.21	5.66 *	16.87 *	9		9.38 *	6.25 *	19.63 *		8.35 *	5.12 *	17.46 *	9	-	10.71	5.77	20.48		9.91 *	4.66
	3 4	<u>3.13</u> 4.17	2.08 2.78	9.21 10.94	4	-	*	*	*		*	*	*	4 r		3.70	3.03	10.73		1.09	0.86	5.95	4	-	4.17	2.78	10.94 12.68	-	1.27 2.58	0.78 1.58	6.04	4	-	4.76	2.56	11.33		1.50	0.71
	5	5.21 6.25	3.47 4.17	12.68 14.42	6	4.0	4.17	4.17		4.0	1.96 2.96	1.96 2.96	9.93	6	4.0	4.63 5.56	3.79 4.55	<u>12.42</u> 14.10	4.0	2.23 3.37	1.75 2.65	10.01	6	4.0	6.25	4.17	14.42	4.0	3.90	2.39	10.29	5	4.0	5.95 7.14	3.21 3.85	13.16 14.99	4.0	3.07 4.63	1.44 2.18
	7	7.29	4.17	14.42	7		5.83 6.67	5.83 6.67			3.96 4.96	3.96 4.96	11.93 13.93	7		<u>6.48</u> 7.41	5.30 6.06	15.78 17.47		4.50 5.64	3.54 4.43	12.04 14.07	7		7.29 8.33	4.86 5.56	16.15 17.89	-	5.22 6.53	3.20 4.00	12.41 14.53	7	-	8.33 9.52	4.49 5.13	16.82 18.65		6.19 7.76	2.91 3.65
	8 9	9.38	6.25	17.89	9		7.50	7.50	19.00		5.96	5.96	15.93	9		8.33	6.82	19.15		6.78	5.32	16.10	9		9.38	6.25	19.63		7.85	4.81	16.66	9		10.71	5.77	20.48		9.32	4.38
3.0 9		R LINE PI	OFILE																				·····																
s	W FEET	X <sub>1U</sub> FEET	X <sub>11</sub> FEET	L <sub>1</sub> FEET	4. H	<u>3 % GUT</u> W	TER LINE F	ROFILE X <sub>1L</sub>	L <sub>1</sub>	Y	X <sub>20</sub>	X <sub>21</sub>	L <sub>2</sub>	5.0 H	% GUTTE	R LINE PRO	OFILE X <sub>1L</sub>	L <sub>1</sub>	Y	X <sub>2U</sub>	X <sub>21</sub>	L <sub>2</sub>	6.( H	W GUTTI	ER LINE PR	OFILE	La	Y [	X <sub>2U</sub>	X <sub>21</sub>	L <sub>2</sub>	7.0 H	)%GUTT W	ER LINE PRO	DFILE X <sub>11</sub>	L <sub>1</sub>	Y	X <sub>20</sub>	X <sub>2L</sub>
	3 4	<u>3.57</u> 4.76	1.92 2.56	9.49 11.33	INCHES	FEET	<b>FEET</b> 4.17	<b>FEET</b>		INCHES	5 FEET 1.75	<b>FEET</b> 0.62	<b>FEET</b> 6.37	INCHES	FEET	<b>FEET</b> 5.00	<b>FEET</b>	<b>FEET</b>	INCHES	<b>FEET</b> 2.28	<b>FEET</b>	<b>FEET</b> 6.85	INCHES	FEET	<b>FEET</b>	<b>FEET</b>	<b>FEET</b>	INCHES	FEET 3.26	FEET 0.53	FEET 7.79	INCHES	FEET	<b>FEET</b> 8.33	FEET	FEET 13.80	INCHES	FEET 5.71	<b>FEET</b> 0.50
	5	5.95 7.14	3.21	13.16 14.99	4	-	5.56	2.38	11.94 13.92		3.68	1.29	8.97	4		6.67	2.22	12.89		4.78	1.19	9.98	4	- · · · · · · · · · · · · · · · · · · ·	8.33 10.42	2.08	14.42 17.02		6.84 10.41	1.11	11.95	4		11.11	1.96	17.07	-	11.97	1.04 1.58
	7	8.33	4.49	16.82	6	2.75	8.33	3.57	15.90		7.53	2.64	14.17	6	2.75	8.33 10.00	3.33	15.11 17.33	2.75	7.29 9.79	2.45	13.10 16.23	6	2.75	12.50	3.13	19.63	2.75	13.99	2.27	20.26	6	2.75	13.89 15.00	2.45 2.94	21.94	2.75	15.00 15.00	2.13
	9	9.52 10.71	5.15	18.65 20.48	8		<u>9.72</u> <u>11.11</u>		17.89 19.87		9.45 11.38	3.32 4.00	16.77 19.37	8		11.67	<u> </u>	19.56 21.78		12.29 14.79	3.07	19.36 22.49	8	-	14.58 15.00	3.65 4.17	22.23 23.17		15.00 15.00	2.86 3.44	21.86 22.44	8		15.00 15.00	3.43 3.92	22.43 22.92	-	15.00 15.00	2.67 3.21
4.0 %	6 GUTTE	R LINE PI	OFILE		9		12.50 4.17				13.30 1.39	4.67 0.49	21.97 5.88	9		15.00 5.00	5.00 1.67	24.00 10.67		15.00 1.80	4.32 0.45	23.32 6.26	9 3		15.00 6.25	4.69 1.56	23.69 11.81		15.00 2.58	4.02 0.42	23.02 7.00	9		15.00 8.33	4.41 1.47	23.41 13.80		15.00 4.52	3.76 0.39
ES	W FEET	X <sub>1U</sub> FEET	X <sub>1L</sub> FEET	L <sub>1</sub> FEET	4	-	5.56 6.94	2.38 2.98	11.94 3 13.92		3.31 5.24	1.16 1.84	8.48 11.08	4	-	6.67 8.33	2.22 2.78	12.89 15.11		4.31 6.81	1.08 1.70	9.38 12.51	4	-	8.33 10.42	2.08 2.60	14.42 17.02	_	6.16 9.73	1.00 1.58	11.16 15.31	4	-	11.11 13.89	1.96 2.45	17.07 20.34	-	10.78 15.00	0.94 1.48
	3	4.17 5.56	1.79 2.38	9.95 11.94	6	3.0	8.33	3.57 4.17		3.0	7.16	2.52 3.19	13.68 16.28	6	3.0	10.00	3.33	17.33 19.56	3.0	9.31 11.81	2.33	15.64 18.77	6	3.0	12.50 14.58	3.13 3.65	19.63 22.23	3.0	13.31 15.00	2.16	19.47 21.75	6	3.0	15.00 15.00	2.94 3.43	21.94 22.43	3.0	15.00 15.00	2.02 2.57
	5	6.94 8.33	2.98 3.57	13.92 15.90	8		<u>11.11</u> 12.50	4.76	19.87		<u>11.01</u> 12.94	3.87	18.88 21.48	8	-	13.33 15.00	4.44	21.78 24.00		14.32 15.00	3.58 4.20	21.89 23.20	8	-	<u>15.00</u> 15.00	4.17 4.69	23.17 23.69		15.00	3.33 3.91	22.33	8	-	15.00 15.00	3.92 4.41	22.92 23.41	-	15.00 15.00	3.11
	7	9.72	4.17		3	_	4.17	1.79	9.95		0.66	0.23	4.89	3	-	5.00	1.67	10.67		0.85	0.21	5.07	3		6.25	1.56	11.81		1.22	0.20	5.42	3		8.33	1.47	13.80		2.14	0.19
	9	11.11 12.50	5.36	21.86	5		5.56 6.94	2.98	11.94 13.92		2.58 4.51	1.58	7.49 10.09	5		6.67 8.33	2.22 2.78	12.89		3.36 5.86	0.84	8.20 11.32	5		8.33 10.42	2.08	14.42		4.80 8.37	0.78 1.36	9.58 13.74	5	~	11.11	1.96 2.45	17.07 20.34	-	8.40 14.67	0.73 1.27
5.0 %	6 GUTTER	R LINE PI	OFILE		6 7	3.5	8.33 9.72	4.17	17.89		6.43 8.36	2.26 2.93	12.69 15.29	6 7	3.5	10.00 11.67	3.33 3.89	17.33 19.56	3.5	8.36 10.86	2.09 2.71	14.45 17.58	6 7	3.5	12.50 14.58	3.13 3.65	19.63 22.23	3.5	11.95 15.00	1.94 2.52	17.89 21.52	6 7	3.5	15.00 15.00	2.94 3.43	21.94 22.43	3.5	15.00 15.00	1.82 2.36
s	W FEET	X <sub>1U</sub> FEET	X <sub>1L</sub> FEET	L <sub>1</sub> FEET	<u>8</u> 9		<u>11.11</u> 12.50	4.76 5.36	19.87 21.86		10.28 12.20	3.61 4.29	17.89 20.49	8	-	13.33 15.00	4.44 5.00	21.78 24.00		<u>13.37</u> 15.00	3.34 3.96	20.71 22.96	8	-	15.00 15.00	4.17 4.69	23.17 23.69	_	15.00 15.00	3.11 3.69	22.11 22.69	8		15.00 15.00	3.92 4.41	22.92 23.41	~	15.00 15.00	2.90 3.45
	3	5.00 6.67	1.67 2.22	10.67 12.89	3	··	* 5.56				* 1.85	* 0.65	* 6.50	3		* 6.67	*	* 12.89		* 2.41	* 0.60	*	3		*	* 2.08	* 14.42		* 3,44	*	*	3		* 11.11	*	* 17.07		* 6.03	* 0.52
	5	8.33 10.00	2.78 3.33	15.11 17.33	5	4.0	6.94 8.33	2.98	13.92		3.78 5.70	1.33 2.00	9.10 11.70	5	4.0	8.33 10.00	2.78 3.33	15.11 17.33	4.0	4.91 7.41	1.23	10.14 13.26	5	4.0	10.42 12.50	2.60 3.13	17.02 19.63	4.0	7.02	1.14 1.72	12.16 16.31	5	4.0	13.89 15.00	2.45 2.94	20.34 21.94	4.0	12.29 15.00	1.07 1.61
	7	11.67	3.89	19.56	7		9.72	4.17	17.89		7.62	2.68	14.30	7	4 1	<u>11.67</u> 13.33		<u>19.56</u> 21.78	4.0				7	4.0	<u>14.58</u> 15.00	3.65	22.23	L		2.30		7			3.43	22.43 22.92	4.0		2.15
	8 9	13.33 15.00	4.44 5.00	21.78 24.00	<u> </u>		11.11 12.50		i 19.87 i 21.86		9.55 11.47	3.35 4.03	16.90 19.50	8 9	-	13.33 15.00	4.44 5.00	24.00		9.91 12.42 14.92	3.10 3.73	16.39 19.52 22.65	8 9	_	15.00	4.17 4.69	23.17 23.69	_	14.17 15.00 15.00	2.89 3.47	20.47 21.89 22.47	9		15.00 15.00 15.00	3.92 4.41	23.41	_	15.00 15.00 15.00	2.70 3.24
.0  9		R LINE PI									NOTES:																												
s	FEET	FEET												PES, SEE																			C	CONC	RET	E S	SIDE	EWAl	LΚ
	<u>3</u> 4	6.25 8.33	1.56 2.08	11.81 14.42					'PE 2					ARE BAS INTO AC									TABLES									(F	PUBLI	IC SID	EWAL			RAMP	ΤAΒ
	5	10.42 12.50	2.60 3.13	17.02 19.63	Н	<b>T</b>	JTTER LIN		E K <sub>1L</sub> I	-1	ΤΟ ΒΕ	USED	BY THE	DESIGNI EACH LC	ERS AND	) CONTI	RACTOR	S TO G	ET APP	PROXIMA	ATE DIME	NSIONS	OF		LEGE											N.T.S	) .		C
	7 8	14.58 15.00	3.65 4.17	22.23 23.17	INCH 3	ES FE		ET FE	EET FE	<b>ЕТ</b> 00				IE FIELD												ND UPPER S	SIDE OF	GUTTE	ER LINE	PROFIL	.E		NF	W JERS	SEY DE	PARTM	ENT OF	F TRAN	
	9	15.00	4.69		4	2	- <u>1</u> .	50 1.	.50 7. .50 7.	00				PE IS TH THE RUN												LOWER													
7.0 9		R LINE PI			6			50 1.	.50 7.	00	RUNNIN	NG SLOF	PE OF (	CURB RAI	MPS DOE	ES NOT	REQUIF	REITSI	LENGTH	ΤΟ ΕΧ	CEED 1	5 FEET.	THE		FOR	THE OT	HER AB	BREVIA	TIONS -	REFER	TO CD	-606-1			NSTE	RUC	IOIT	N D	ETA
IES	VV FEET		X <sub>11</sub> FEET		8	3 2 2	3 1.		.50 7. .50 7. .50 7.	00 00	ΜΑΧΙΜΙ	JM LENC	GTH. T	HE TABL	ES ALRE										* TY	PE 3 RA	AMP IS	NOT AF	PPLICAB	BLE, USE	E TYPE	1				_		_	
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	5	13.89 15.00	2.45 2.94	20.34 21.94							HEIGHT	TS ARE	OTHER	THAN W	HAT IS I	PROVIDE	ED IN T	НЕ ТАВ	LES, TH	HE DIME																			
	7	15.00 15.00	3.43	22.43 22.92								IAVE I	J DE CI	ALCULATE	U DASE	) אוט ע	24022 3	JLUPES	SUOMN	۷.																			
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           | INCHES         FEET         INCHES         FEET         Seet         3           3         1.91         1.91         7.82         3.91         1.91         7.82         5.91         5.91         5.91         5.91         5.91         5.91         5.91         5.91         5.91         5.91         5.91         5.91         5.91         5.91         5.91         5.91         5.91         3.99         9         3         6.91         7.72         7.44         5         3.0         3.72         3.72         1.145         6         6         7         9.9         3         7.72         6.72         5.72         15.45         9         9         3         3.0         3.72         7.72         7.74         4.72         4.72         1.34         1.34         6.63         6         6         7         9         9         3         3.4         3.34         3.34         4.4         3.3         4.4         4.34         12.69         7         7         7         5.34         5.34     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 9         3         3.96         3.96         11.93           7         1.96         1.96         1.93         7         4           5         1.75         0.62         6.37         3 <td< td=""><td>4         1.72         1.72         7.44         4           5         3.0         3.0         3.72         3.72         9.44         5           6         3.0         3.72         3.72         11.45         6           7         6.72         6.72         17.45         8         9           9         6.72         6.72         17.45         8           9         6.72         6.72         17.45         9           3        </td><td>4         1.72         1.72         7.44         4           5         3.0         3.72         3.72         9.44         5           6         3.0         3.72         3.72         11.45         6           7         4.72         4.72         13.45         6         7           8         5.72         5.72         15.45         8           9         6.72         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9           3         **         **         **         **         4           5         -         -         **         **         **         4           5         -         -         1.96         1.96         7.92         5           6         7         -         -         -         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         5         -         -         -         5         -         -         -         5         -         -         -         -         -         -         5         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         <                                                                                                                                                                                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                                                                                                                                          | 8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         -         -         **         **         **         **         3           4         -         -         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         9         9           1000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         **         **         **         **         3           4         5         4.0         4.0         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         3           7         3.96         3.96         11.93         8         9           7         8         5.96         15.93         8         9           8         9         5.96         15.93         8         9           10         NCHES         FEET         INCHES         FEET         INCHE         Inches         1.175         0.62         6.37         3         3         4         1.175         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.5         5.24         1.84         11.08         4         4 <td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         **         **         **         **         3           4         5         4.0         4.0         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         3           7         3.96         3.96         11.93         8         9           7         8         5.96         15.93         8         9           8         9         5.96         15.93         8         9           10         NCHES         FEET         INCHES         FEET         INCHE         Inches         1.175         0.62         6.37         3         3         4         1.175         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.5         5.24         1.84         11.08         4         4<td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         **         **         **         **         3           4         5         4.0         4.0         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         3           7         3.96         3.96         11.93         8         9           7         8         5.96         15.93         8         9           8         9         5.96         15.93         8         9           10         NCHES         FEET         INCHES         FEET         INCHE         Inches         1.175         0.62         6.37         3         3         4         1.175         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.5         5.24         1.84         11.08         4         4<td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         5         4.0         4.0         **         **         **         **         **         **         3           4         5         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         7         8         7         9         5.96         15.93         8         9           9         5.96         5.96         13.93         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         1.75         0.62         6.37         3         3         3         1.85         1.93         9         9         9</td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         5         4.0         4.0         **         **         **         **         **         **         3           4         5         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         7         8         7         9         5.96         15.93         8         9           9         5.96         5.96         13.93         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         1.75         0.62         6.37         3         3         3         1.85         1.93         9         9         9</td><td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         6         6           7         3.96         3.96         11.93         8         9         7           8         9         5.96         15.93         8         9         9         7           8         9         5.96         15.93         8         9         9         9         9         9           <b>X2U</b>         X2L         L2         H         INCHES         H         INCHES         H         INCHES         6         3         3         6         3         3         4         5         6         3         3         4         1         1         1         1         5         5         6         3<td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         8         9           9         1000000000000000000000000000000000000</td><td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5    
      6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         8         9           9         1000000000000000000000000000000000000</td><td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         8         9           9         1000000000000000000000000000000000000</td><td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         **         **         **         **         **         **           5         .9         .93         .9         .9         .93         .6           7         .9         .9.6         .9.93         .9         .6         .9           7         .9         .9.6         .9.93         .9         .9         .6           7         .9.6         .9.96         .1.96         11.93         .7         .8           9         .9         .9         .9         .9         .9         .9         .9           8         .9         .9         .9         .9         .9         .9         .9           4         .9         .9         .9         .9         .9         .9         .9           10         .9         .9         .9         .9         .9         .9         .9           10         .9         .9         .9         .9</td><td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         **         **         **         **         3           4         **         **         **         **         3           5         .9         .93         .9         .9         .93         .6           7         .9         .9.6         .9.93         .9         .6         .9         .9           8         .9         .9         .9         .9         .9         .6         .9         .9         .6           7         .9         .9         .9         .9         .9         .9         .9         .9         .6         .7         .9         .9         .9         .7         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9&lt;</td><td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         **         **         **         **         **         3           4        </td><td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         **         **         **         **         **         **         **         **         4           5         .9         .9         3.96         1.96         7.92         5         6           7         8         1.96         1.96         1.93         7         8         7           8         9         5.96         5.96         15.93         9         9           7         8         5.96         5.96         15.93         9         9           8         9         5.96         5.96         15.93         9         9           1000000000000000000000000000000000000</td><td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         **         **         **         **         **         4           5         .9         .96         1.96         7.92         5         5           6         4.0         4.0         2.96         2.96         9.93         7           8         1.96         3.96         11.93         7         8           9         5.96         5.96         15.93         9           100         Y         X20         X21         L2           H         W         Y         X20         X21         L2           H         W         Y         X20         X21         L2           H         W         Y         X20         X21         L2           H         NCHES         FEET         FEET         FEET         H           INCHES         2.75         2.75         7.53         2.64         14.17           7         3.30         4.67         21.97         9         3           9</td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td></td></td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         **         **         **         **         3           4         5         4.0         4.0         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         3           7         3.96         3.96         11.93         8         9           7         8         5.96         15.93         8         9           8         9         5.96         15.93         8         9           10         NCHES         FEET         INCHES         FEET         INCHE         Inches         1.175         0.62         6.37         3         3         4         1.175         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.5         5.24         1.84         11.08         4         4 <td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         **         **         **         **         3           4         5         4.0         4.0         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         3           7         3.96         3.96         11.93         8         9           7         8         5.96         15.93         8         9           8         9         5.96         15.93         8         9           10         NCHES         FEET         INCHES         FEET         INCHE         Inches         1.175         0.62         6.37         3         3         4         1.175         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.5         5.24         1.84         11.08         4         4<td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         5         4.0         4.0         **         **         **         **         **         **         3           4         5         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96        
11.93         7         7         8         7         9         5.96         15.93         8         9           9         5.96         5.96         13.93         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         1.75         0.62         6.37         3         3         3         1.85         1.93         9         9         9</td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         5         4.0         4.0         **         **         **         **         **         **         3           4         5         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         7         8         7         9         5.96         15.93         8         9           9         5.96         5.96         13.93         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         1.75         0.62         6.37         3         3         3         1.85         1.93         9         9         9</td><td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         6         6           7         3.96         3.96         11.93         8         9         7           8         9         5.96         15.93         8         9         9         7           8         9         5.96         15.93         8         9         9         9         9         9           <b>X2U</b>         X2L         L2         H         INCHES         H         INCHES         H         INCHES         6         3         3         6         3         3         4         5         6         3         3         4         1         1         1         1         5         5         6         3<td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         8         9           9         1000000000000000000000000000000000000</td><td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         8         9           9         1000000000000000000000000000000000000</td><td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         8         9           9         1000000000000000000000000000000000000</td><td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         **         **         **         **         **         **           5         .9         .93         .9         .9         .93         .6           7         .9         .9.6         .9.93         .9         .6         .9           7         .9         .9.6         .9.93         .9         .9         .6           7         .9.6         .9.96         .1.96         11.93         .7         .8           9         .9         .9         .9         .9         .9         .9         .9           8         .9         .9         .9         .9         .9         .9         .9           4         .9         .9         .9         .9         .9         .9         .9           10         .9         .9         .9         .9         .9         .9         .9           10         .9         .9         .9         .9</td><td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         **         **         **         **         3           4         **         **         **         **         3           5         .9         .93         .9         .9         .93         .6           7         .9         .9.6         .9.93         .9         .6         .9         .9           8         .9         .9         .9         .9         .9         .6         .9         .9         .6           7         .9         .9         .9         .9         .9         .9         .9         .9         .6         .7         .9         .9         .9         .7         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9         .9&lt;</td><td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         **         **         **         **         **         3           4        </td><td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         **         **         **         **         **         **         **         **         4           5         .9         .9         3.96         1.96         7.92         5         6           7         8         1.96         1.96         1.93         7         8         7           8         9         5.96         5.96         15.93         9         9           7         8         5.96         5.96         15.93         9         9           8         9         5.96         5.96         15.93         9         9           1000000000000000000000000000000000000</td><td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         **         **         **         **         **         4           5         .9         .96         1.96         7.92         5         5           6         4.0         4.0         2.96         2.96         9.93         7           8         1.96         3.96         11.93         7         8           9         5.96         5.96         15.93         9           100         Y         X20         X21         L2           H         W         Y         X20         X21         L2           H         W         Y         X20         X21         L2           H         W         Y         X20         X21         L2           H         NCHES         FEET         FEET         FEET         H           INCHES         2.75         2.75         7.53         2.64         14.17           7         3.30         4.67         21.97         9         3           9</td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td></td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         **         **         **         **         3           4         5         4.0         4.0         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         3           7         3.96         3.96         11.93         8         9           7         8         5.96         15.93         8         9           8         9         5.96         15.93         8         9           10         NCHES         FEET         INCHES         FEET         INCHE         Inches         1.175         0.62         6.37         3         3         4         1.175         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.60         1.97         11.57         5.5         5.24         1.84         11.08         4         4 <td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         5         4.0         4.0         **         **         **         **         **         **         3           4         5         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         7         8         7         9         5.96         15.93         8         9           9         5.96         5.96         13.93         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         1.75         0.62         6.37         3         3         3         1.85         1.93         9         9         9</td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         5         4.0         4.0         **         **         **         **         **         **         3           4         5         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         7         8         7         9         5.96         15.93         8         9           9         5.96         5.96         13.93         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         1.75         0.62         6.37         3         3         3         1.85         1.93         9         9         9</td> <td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         6         6           7         3.96         3.96         11.93         8         9         7           8         9         5.96         15.93         8         9         9         7           8         9         5.96         15.93         8         9         9         9         9         9           <b>X2U</b>         X2L         L2         H         INCHES         H         INCHES         H         INCHES         6         3         3         6         3         3         4         5         6         3         3         4         1         1         1         1         5         5         6         3<td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         8         9           9         1000000000000000000000000000000000000</td><td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         8         9           9         1000000000000000000000000000000000000</td><td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5         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        X21         L2           H         W         Y         X20         X21         L2           H         W         Y         X20         X21         L2           H         NCHES         FEET         FEET         FEET         H           INCHES         2.75         2.75         7.53         2.64         14.17           7         3.30         4.67         21.97         9         3           9</td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td></td>                                                                                                                                                                                                                                                                                                                                                                                                                             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      9         9         9         9         9         9         1.75         0.62         6.37         3         3         3         1.85         1.93         9         9         9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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11.93         8         9         7           8         9         5.96         15.93         8         9         9         7           8         9         5.96         15.93         8         9         9         9         9         9 <b>X2U</b> X2L         L2         H         INCHES         H         INCHES         H         INCHES         6         3         3         6         3         3         4         5         6         3         3         4         1         1         1         1         5         5         6         3 <td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         8         9           9         1000000000000000000000000000000000000</td> <td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         8         9           9         1000000000000000000000000000000000000</td> <td>8         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         5         4.0         4.0         1.96         1.96         7.92         5           6         4.0         4.0         2.96         2.96         9.93         6           7         3.96         3.96         11.93         7         8         9         7           8         9         5.96         5.96         15.93         8         9           9         1000000000000000000000000000000000000</td> <td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9           3         **         **         **         **         3           4         **         **         **         **         **         **           5         .9         .93         .9         .9         .93         .6           7         .9         .9.6         .9.93         .9         .6         .9           7         .9         .9.6         .9.93         .9         .9         .6           7         .9.6         .9.96         .1.96         11.93         .7         .8           9         .9         .9         .9         .9         .9         .9         .9           8         .9         .9         .9         .9         .9         .9         .9           4         .9         .9         .9         .9         .9         .9         .9           10         .9         .9         .9         .9         .9         .9         .9           10         .9         .9         .9         .9</td> <td>8         9         5.34         5.34         14.69         8           9         6.34         6.34         16.69         9         3           4         **         **         **         **         3           4         **         **         **         **         3           5         .9         .93         .9         .9         .93         .6           7         .9         .9.6         .9.93         .9         .6         .9         .9           8         .9         .9         .9         .9         .9         .6         .9         .9         .6           7         .9         .9         .9         .9         .9         .9       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     Y         X20         X21         L2           H         W         Y         X20         X21         L2           H         W         Y         X20         X21         L2           H         NCHES         FEET         FEET         FEET         H           INCHES         2.75         2.75         7.53         2.64         14.17           7         3.30         4.67         21.97         9         3           9</td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td>                                                                                                                                                                                                                                                                                                                                                                                                      
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INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         <t< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         <t< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         1.75         0.62         6.37         3         3         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         &lt;</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         &lt;</td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td></t<></td></t<></td></td<></td></td></td<></td></td<></td></td<> | 8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         GUTTER LINE PROFILE         5         5         15.93         9           H         W         Y         X <sub>2U</sub> X <sub>2L</sub> L <sub>2</sub> H           INCHES         FEET         INCHES         FEET         FEET         FEET         M           3         3.68         1.29         8.97         3         3         3         3           4         3.68         1.29         8.97         4         3         3         3         3           4         5.60         1.97         11.57         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         3 <td< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         GUTTER LINE PROFILE         5         5         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         M           3         3.68         1.29         8.97         3         3         3         3           4         3.68         1.29         8.97         4         3         3         3         3           4         5.60         1.97         11.57         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         3         <td< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET    
    FEET         FEET         9           3         3.68         1.29         8.97         4         3         3         3           4         5.60         1.97         11.57         5         5         5         5         5         5         3         4         6         3.0         4         6         3.32         16.77         7         7         5         5         5         5         5         5         5         5         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         &lt;</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         3.68         1.29         8.97         4         3         3         3           4         5.60         1.97         11.57         5         5         5         5         5         5         6         3.0         4         6         3.32         16.77         7         7         8         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         &lt;</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         1.75         0.62         6.37         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         &lt;</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         6.37         3           3         1.75         0.62         6.37         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3<!--</td--><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5.96         15.93         9           H         W         Y         X<sub>2</sub>U         X<sub>2</sub>L         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         H         INCHE           3         1.75         0.62         6.37         3         3         3         3         4         3.68         1.29         8.97         4         5         5         5         6         1.97         11.57         5         5         5         5         5         5         6         3.0         1.330         4.67         21.97         9         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         <td< td=""><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         <t< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         <t< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         1.75         0.62         6.37         3         3         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         &lt;</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5       
 5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         &lt;</td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td></t<></td></t<></td></td<></td></td></td<></td></td<> | 8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         GUTTER LINE PROFILE         5         5         15.93         9           H         W         Y         X <sub>2U</sub> X <sub>2L</sub> L <sub>2</sub> H           INCHES         FEET         INCHES         FEET         FEET         FEET         M           3         3.68         1.29         8.97         3         3         3         3           4         3.68         1.29         8.97         4         3         3         3         3           4         5.60         1.97         11.57         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         3 <td< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         3.68         1.29         8.97         4         3         3         3           4         5.60         1.97         11.57         5         5         5         5         5         5         3         4         6         3.0         4         6         3.32         16.77         7         7         5         5         5         5         5         5         5         5         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         &lt;</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         3.68         1.29         8.97         4         3         3         3           4         5.60         1.97         11.57         5         5         5         5         5         5         6         3.0         4         6         3.32         16.77         7         7         8         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         &lt;</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         1.75         0.62         6.37         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         &lt;</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         6.37         3           3         1.75         0.62         6.37         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3<!--</td--><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5.96         15.93         9           H         W         Y         X<sub>2</sub>U         X<sub>2</sub>L         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         H         INCHE           3         1.75         0.62         6.37         3         3         3         3         4         3.68         1.29         8.97         4         5         5         5         6         1.97         11.57         5         5         5         5         5         5         6         3.0         1.330         4.67         21.97         9         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         <td< td=""><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         <t< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5      
  5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         <t< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         1.75         0.62         6.37         3         3         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         &lt;</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         &lt;</td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td></t<></td></t<></td></td<></td></td></td<> | 8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         6         15.93         9           H         W         Y         X <sub>2U</sub> X <sub>2L</sub> L <sub>2</sub> H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         3.68         1.29         8.97         4         3         3         3           4         5.60         1.97         11.57         5         5         5         5         5         5         3         4         6         3.0         4         6         3.32         16.77         7         7         5         5         5         5         5         5         5         5         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                   | 8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         6         15.93         9           H         W         Y         X <sub>2U</sub> X <sub>2L</sub> L <sub>2</sub> H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         3.68         1.29         8.97         4         3         3         3           4         5.60         1.97         11.57         5         5         5         5         5         5         6         3.0         4         6         3.32         16.77         7         7         8         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         6         15.93         9           H         W         Y         X <sub>2U</sub> X <sub>2L</sub> L <sub>2</sub> H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         1.75         0.62         6.37         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X <sub>2U</sub> X <sub>2L</sub> L <sub>2</sub> H         INCHES         FEET         INCHES         6.37         3           3         1.75         0.62         6.37         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3 </td <td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td> <td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5.96         15.93         9           H         W         Y         X<sub>2</sub>U         X<sub>2</sub>L         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         H         INCHE           3         1.75         0.62         6.37         3         3         3         3         4         3.68         1.29         8.97         4         5         5         5         6         1.97         11.57         5         5         5         5         5         5         6         3.0         1.330         4.67         21.97         9         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         <td< td=""><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         <t< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         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       5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         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INCHES         FEET         FEET         FEET         H         INCHE           3         1.75         0.62         6.37         3         3         3         3         4         3.68         1.29         8.97         4         5         5         5         6         1.97         11.57         5         5         5         5         5         5         6         3.0         1.330         4.67         21.97         9         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3 <td< td=""><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         <t< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         <t< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         1.75         0.62         6.37         3         3         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5
        5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         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        5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5 <t< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         <t< td=""><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H           INCHES         FEET         INCHES         FEET         FEET         FEET         9           3         1.75         0.62         6.37         3         3         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         &lt;</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         &lt;</td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td></t<></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X <sub>2U</sub> X <sub>2L</sub> L <sub>2</sub> H         INCHES         FEET         INCHE         9           3         1.75         0.62         6.37         3         3         4         3         3.68         1.29         8.97         4         5         5        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  1.75         0.62         6.37         3         3         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H        
INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         &lt;</td><td>8         4.96         4.96         13.93         8           9         5.96         5.96         15.93         9           4.0         % GUTTER LINE PROFILE         5         5         6         15.93         9           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>         H         INCHES         FEET         INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         &lt;</td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math 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INCHES         5           3         1.75         0.62         6.37         3         3         3         4         3.68         1.29         8.97         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         <                                                                                                                                                                                                                                                               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                                                                                                                                          | 95.965.9615.9394.0 $\checkmark$ GUTTER LINE PROFILEX2UX2LL2HWYX2UX2LL2INCHESFEETINCHESFEETFEET31.750.626.37343.681.298.97455.601.9711.57562.752.757.532.6414.1779.453.3216.777811.384.0019.378913.304.6721.97931.390.495.883453.03.07.162.5213.6873.03.07.162.5213.686711.013.8718.8888912.944.5421.489342.580.917.494                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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4       <math>X_{2L}</math> <math>Z_2</math> <math>X_{2L}</math> <math>Z_2</math>         5       <math>X_{2L}</math> <math>X_{2L}</math> <math>Z_2</math> <math>X_{2L}</math> <math>Z_2</math>         4       <math>X_{2L}</math> <math>X_{2L}</math> <math>Z_2</math> <math>X_{2L}</math> <math>Z_2</math>         5       <math>X_{2L}</math> <math>X_{2L}</math> <math>Z_2</math> <math>X_{2L}</math> <math>Z_2</math>         6       <math>2.75</math> <math>Z.75</math> <math>Z.75</math><!--</td--><td>4.0 % GUTTER LINE PROFILE       5         H       W       Y       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         INCHES       FEET       INCHES       FEET       FEET       FEET       INCHE         3       <math>3.68</math> <math>1.29</math> <math>8.97</math> <math>4.0</math> <math>3.68</math> <math>1.29</math> <math>8.97</math> <math>4.0</math>         5       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6.6</math>         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LINE PROFILE         H       W       Y       <math>\chi_{2U}</math> <math>\chi_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET       INCHES         3       <math>4</math> <math>3.68</math> <math>1.29</math> <math>8.97</math> <math>4</math>         5       <math>2.75</math> <math>2.75</math> <math>2.60</math> <math>1.97</math> <math>11.57</math> <math>5</math>         6       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>9.45</math> <math>3.32</math> <math>16.77</math> <math>7</math> <math>8</math>         9       <math>1.30</math> <math>4.67</math> <math>21.97</math> <math>9</math>         3       <math>4</math> <math>3.31</math> <math>1.16</math> <math>8.48</math> <math>4</math>         5       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math> <math>6</math>         7       <math>3.31</math> <math>1.16</math> <math>8.48</math> <math>4</math> <math>5</math> <math>6</math> <math>7</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>8</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>8</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>8</math> <math>9</math></td><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>\chi_{2U}</math> <math>\chi_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET       INCHES         3       <math>4</math> <math>3.68</math> <math>1.29</math> <math>8.97</math> <math>4</math>         5       <math>2.75</math> <math>2.75</math> <math>2.60</math> <math>1.97</math> <math>11.57</math> <math>5</math>         6       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>9.45</math> 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<math>5.60</math> <math>1.97</math> <math>11.57</math> <math>5.60</math>         5       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>9.45</math> <math>3.32</math> <math>16.77</math> <math>7</math> <math>7</math>         8       <math>1.30</math> <math>4.67</math> <math>21.97</math> <math>9</math>         9       <math>13.30</math> <math>4.67</math> <math>21.97</math> <math>9</math>         3       <math>5.24</math> <math>1.84</math> <math>11.08</math> <math>5</math>         6       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math> <math>6</math>         7       <math>11.01</math> <math>3.87</math> <math>18.88</math> <math>8</math> <math>9</math>         6       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math> <math>6</math>         7       <math>11.01</math> <math>3.87</math> <math>18.88</math> <math>8</math> <math>9</math> <math>7</math> <math>7</math>        
8       <math>2.58</math> <math>0.91</math> <math>7.49</math> <math>4</math><!--</td--><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2u}</math> <math>X_{2l}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>X_{2u}</math> <math>X_{2l}</math> <math>L_2</math>       H         3       <math>X_{2l}</math> <math>L_2</math>       H         3       <math>X_{2l}</math> <math>EET</math>       FEET       H         3       <math>X_{2l}</math> <math>K_{2l}</math> <math>L_2</math>       H         5       <math>X_{2l}</math> <math>K_{2l}</math> <math>K_{2l}</math> <math>K_{2l}</math> <math>K_{2l}</math>         6       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>11.38</math> <math>4.00</math> <math>19.37</math> <math>8</math> <math>3</math> <math>3</math> <math>3</math> <math>4.67</math> <math>21.97</math> <math>9</math> 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<math>3</math> <math>3</math> <math>4</math> <math>4</math> <math>4</math> <math>4</math> <math>4</math> <math>5</math></td><td>4.0 % GUTTER LINE PROFILE         5           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>           INCHES         FEET         INCHES         FEET         FEET         FEET         INCHE           3        </td><td>4.0 % GUTTER LINE PROFILEHWY<math>X_{2U}</math><math>X_{2L}</math><math>L_2</math>INCHESFEETINCHESFEETFEET3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>FEET</math>FEET3<math>X_{2L}</math><math>K_{2L}</math><math>L_2</math>4<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>3<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>4<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>5<math>66</math><math>2.75</math><math>2.75</math><math>66</math><math>2.75</math><math>2.75</math><math>7.53</math><math>2.64</math><math>14.17</math><math>66</math><math>7.7</math><math>9.45</math><math>3.32</math><math>16.77</math><math>7</math><math>11.38</math><math>4.00</math><math>19.37</math><math>8</math><math>13.30</math><math>4.67</math><math>21.97</math><math>9</math><math>3.31</math><math>1.16</math><math>8.48</math><math>4</math><math>5.24</math><math>1.84</math><math>11.08</math><math>5</math><math>3.0</math><math>3.0</math><math>7.16</math><math>2.52</math><math>7.16</math><math>2.52</math><math>13.68</math><math>66</math><math>7</math><math>9.09</math><math>3.19</math><math>16.28</math><math>7</math><math>11.01</math><math>3.87</math><math>18.88</math><math>9</math><math>12.94</math><math>4.54</math><math>21.48</math><math>9</math><math>0.66</math><math>0.23</math><math>4.89</math><math>3</math><math>4.51</math><math>1.58</math><math>10.09</math><math>6</math><math>3.5</math><math>3.5</math><math>6.43</math><math>2.26</math><math>7</math><math>8.36</math><math>2.93</math><math>15.29</math><math>7</math></td><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2}</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>3</math>         4       <math>X_{2}</math> <math>X_{2}</math></td></td></td></td<></td></td> | 4.0 % GUTTER LINE PROFILE         H       W       Y $X_{2U}$ $X_{2L}$ $L_2$ INCHES       FEET       INCHES       FEET       FEET       FEET         3 $X_{2U}$ $X_{2L}$ $L_2$ H         3 $X_{2L}$ $L_2$ H         3 $X_{2L}$ $FEET$ FEET       H         3 $X_{2L}$ $Z_2$ $X_{2L}$ $Z_2$ 4 $X_{2L}$ $Z_2$ $X_{2L}$ $Z_2$ 5 $X_{2L}$ $X_{2L}$ $Z_2$ $X_{2L}$ $Z_2$ 4 $X_{2L}$ $X_{2L}$ $Z_2$ $X_{2L}$ $Z_2$ 5 $X_{2L}$ $X_{2L}$ $Z_2$ $X_{2L}$ $Z_2$ 6 $2.75$ $Z.75$ </td <td>4.0 % GUTTER LINE PROFILE       5         H       W       Y       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         INCHES       FEET       INCHES       FEET       FEET       FEET       INCHE         3       <math>3.68</math> <math>1.29</math> <math>8.97</math> <math>4.0</math> <math>3.68</math> <math>1.29</math> <math>8.97</math> <math>4.0</math>         5       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6.6</math>         7       <math>5.60</math> <math>1.97</math> <math>11.57</math> <math>5.5</math> <math>5.60</math> <math>1.97</math> <math>11.57</math> <math>5.5</math>         6       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6.6</math>         7       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       5       <math>2.75</math> <math>2.75</math> <math>2.60</math> <math>1.97</math> <math>11.57</math> <math>5</math>         6       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>9.45</math> <math>3.32</math> <math>16.77</math> <math>7</math> <math>8</math>         9       <math>1.30</math> <math>4.67</math> <math>21.97</math> <math>9</math>         3       <math>4</math> <math>3.31</math> <math>1.16</math> <math>8.48</math> <math>4</math>         5       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math> <math>6</math>         7       <math>3.31</math> <math>1.16</math> <math>8.48</math> <math>4</math> <math>5</math> <math>6</math> <math>7</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>8</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>8</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>8</math> <math>9</math></td> <td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>\chi_{2U}</math> <math>\chi_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET       INCHES         3       <math>4</math> <math>3.68</math> <math>1.29</math> <math>8.97</math> <math>4</math>         5       <math>2.75</math> <math>2.75</math> <math>2.60</math> <math>1.97</math> <math>11.57</math> <math>5</math>         6       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>9.45</math> <math>3.32</math> <math>16.77</math> <math>7</math> <math>8</math>         9       <math>1.30</math> <math>4.67</math> <math>21.97</math> <math>9</math>         3       <math>4</math> <math>3.31</math> <math>1.16</math> <math>8.48</math> <math>4</math>         5       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math> <math>6</math>         7       <math>3.31</math> <math>1.16</math> <math>8.48</math> <math>4</math> <math>5</math> <math>6</math> <math>7</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>8</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>8</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>9.3</math> <td< td=""><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>\chi_{2U}</math> <math>\chi_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET       INCHES         3       <math>4</math> <math>3.68</math> <math>1.29</math> <math>8.97</math> <math>4</math>         5       <math>2.75</math> <math>2.75</math> <math>2.60</math> <math>1.97</math> <math>11.57</math> <math>5</math>         6      
<math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>9.45</math> <math>3.32</math> <math>16.77</math> <math>7</math> <math>8</math>         9       <math>1.30</math> <math>4.67</math> <math>21.97</math> <math>9</math>         3       <math>4</math> <math>3.31</math> <math>1.16</math> <math>8.48</math> <math>4</math>         5       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math> <math>6</math>         7       <math>3.31</math> <math>1.16</math> <math>8.48</math> <math>4</math> <math>5</math> <math>6</math> <math>7</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>8</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>7</math> <math>8</math> <math>9.09</math> <math>3.19</math> <math>16.28</math> <math>8</math> <math>9</math></td><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2u}</math> <math>X_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>3.68</math> <math>1.29</math> <math>8.97</math> <math>3.0</math>         4       <math>5.60</math> <math>1.97</math> <math>11.57</math> <math>5.60</math>         5       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>9.45</math> <math>3.32</math> <math>16.77</math> <math>7</math> <math>7</math>         8       <math>1.30</math> <math>4.67</math> <math>21.97</math> <math>9</math>         9       <math>13.30</math> <math>4.67</math> <math>21.97</math> <math>9</math>         3       <math>5.24</math> <math>1.84</math> <math>11.08</math> <math>5</math>         6       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math> <math>6</math>         7       <math>11.01</math> <math>3.87</math> 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INCHES         FEET         INCHES         FEET         FEET         FEET         INCHE           3        </td><td>4.0 % GUTTER LINE PROFILEHWY<math>X_{2U}</math><math>X_{2L}</math><math>L_2</math>INCHESFEETINCHESFEETFEET3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>FEET</math>FEET3<math>X_{2L}</math><math>K_{2L}</math><math>L_2</math>4<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>3<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>4<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>5<math>66</math><math>2.75</math><math>2.75</math><math>66</math><math>2.75</math><math>2.75</math><math>7.53</math><math>2.64</math><math>14.17</math><math>66</math><math>7.7</math><math>9.45</math><math>3.32</math><math>16.77</math><math>7</math><math>11.38</math><math>4.00</math><math>19.37</math><math>8</math><math>13.30</math><math>4.67</math><math>21.97</math><math>9</math><math>3.31</math><math>1.16</math><math>8.48</math><math>4</math><math>5.24</math><math>1.84</math><math>11.08</math><math>5</math><math>3.0</math><math>3.0</math><math>7.16</math><math>2.52</math><math>7.16</math><math>2.52</math><math>13.68</math><math>66</math><math>7</math><math>9.09</math><math>3.19</math><math>16.28</math><math>7</math><math>11.01</math><math>3.87</math><math>18.88</math><math>9</math><math>12.94</math><math>4.54</math><math>21.48</math><math>9</math><math>0.66</math><math>0.23</math><math>4.89</math><math>3</math><math>4.51</math><math>1.58</math><math>10.09</math><math>6</math><math>3.5</math><math>3.5</math><math>6.43</math><math>2.26</math><math>7</math><math>8.36</math><math>2.93</math><math>15.29</math><math>7</math></td><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2}</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>3</math>         4       <math>X_{2}</math> <math>X_{2}</math></td></td></td></td<></td> | 4.0 % GUTTER LINE PROFILE       5         H       W       Y $X_{2U}$ $X_{2L}$ $L_2$ H         INCHES       FEET       INCHES       FEET       FEET       FEET       INCHE         3 $3.68$ $1.29$ $8.97$ $4.0$ $3.68$ $1.29$ $8.97$ $4.0$ 5 $2.75$ $2.75$ $7.53$ $2.64$ $14.17$ $6.6$ 7 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$2.52$ $13.68$ $6$ 7 $3.31$ $1.16$ $8.48$ $4$ $5$ $6$ $7$ $9.09$ $3.19$ $16.28$ $7$ $8$ $9.09$ $3.19$ $16.28$ $7$ $9.09$ $3.19$ $16.28$ $7$ $8$ $9.09$ $3.19$ $16.28$ $7$ $9.3$ <td< td=""><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>\chi_{2U}</math> <math>\chi_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET       INCHES         3       <math>4</math> <math>3.68</math> <math>1.29</math> <math>8.97</math> <math>4</math>         5       <math>2.75</math> <math>2.75</math> <math>2.60</math> <math>1.97</math> <math>11.57</math> <math>5</math>         6       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>9.45</math> <math>3.32</math> <math>16.77</math> <math>7</math> <math>8</math>         9       <math>1.30</math> <math>4.67</math> <math>21.97</math> <math>9</math>         3       <math>4</math> <math>3.31</math> <math>1.16</math> 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<math>K_{2l}</math> <math>K_{2l}</math> <math>K_{2l}</math> <math>K_{2l}</math>         6       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>11.38</math> <math>4.00</math> <math>19.37</math> <math>8</math> <math>3</math> <math>3</math> <math>3</math> <math>4.67</math> <math>21.97</math> <math>9</math> <math>3</math>         6       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math></td><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2u}</math> <math>X_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>X_{2u}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2L}</math> <math>Z_2</math> <math>X_{2L}</math> <math>L_2</math>         4       <math>X_{2L}</math> <math>X_{2L}</math> <math>L_2</math>       H         5       <math>X_{2L}</math> <math>X_{2L}</math> <math>L_2</math> <math>X_{2L}</math> <math>L_2</math>         6       <math>2.75</math> <math>Z.75</math> <math>Z.55</math> <math>Z.64</math> <math>14.17</math> <math>6</math>         7       <math>11.38</math> <math>4.00</math> <math>19.37</math> <math>8</math> <math>3</math> <math>3</math> <math>3</math> <math>3</math> <math>4.67</math> <math>21.97</math> <math>9</math> <math>3</math> <math>3</math> <math>4</math> <math>4</math> <math>4</math> <math>4</math> <math>4</math> <math>5</math></td><td>4.0 % GUTTER LINE PROFILE         5           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>           INCHES         FEET         INCHES         FEET         FEET         FEET         INCHE           3        </td><td>4.0 % GUTTER LINE
PROFILEHWY<math>X_{2U}</math><math>X_{2L}</math><math>L_2</math>INCHESFEETINCHESFEETFEET3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>FEET</math>FEET3<math>X_{2L}</math><math>K_{2L}</math><math>L_2</math>4<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>3<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>4<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>5<math>66</math><math>2.75</math><math>2.75</math><math>66</math><math>2.75</math><math>2.75</math><math>7.53</math><math>2.64</math><math>14.17</math><math>66</math><math>7.7</math><math>9.45</math><math>3.32</math><math>16.77</math><math>7</math><math>11.38</math><math>4.00</math><math>19.37</math><math>8</math><math>13.30</math><math>4.67</math><math>21.97</math><math>9</math><math>3.31</math><math>1.16</math><math>8.48</math><math>4</math><math>5.24</math><math>1.84</math><math>11.08</math><math>5</math><math>3.0</math><math>3.0</math><math>7.16</math><math>2.52</math><math>7.16</math><math>2.52</math><math>13.68</math><math>66</math><math>7</math><math>9.09</math><math>3.19</math><math>16.28</math><math>7</math><math>11.01</math><math>3.87</math><math>18.88</math><math>9</math><math>12.94</math><math>4.54</math><math>21.48</math><math>9</math><math>0.66</math><math>0.23</math><math>4.89</math><math>3</math><math>4.51</math><math>1.58</math><math>10.09</math><math>6</math><math>3.5</math><math>3.5</math><math>6.43</math><math>2.26</math><math>7</math><math>8.36</math><math>2.93</math><math>15.29</math><math>7</math></td><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2}</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>3</math>         4       <math>X_{2}</math> <math>X_{2}</math></td></td></td></td<> | 4.0 % GUTTER LINE PROFILE         H       W       Y $\chi_{2U}$ $\chi_{2L}$ $L_2$ INCHES       FEET       INCHES       FEET       FEET       FEET       INCHES         3 $4$ $3.68$ $1.29$ $8.97$ $4$ 5 $2.75$ $2.75$ $2.60$ $1.97$ $11.57$ $5$ 6 $2.75$ $2.75$ $7.53$ $2.64$ $14.17$ $6$ 7 $9.45$ $3.32$ $16.77$ $7$ $8$ 9 $1.30$ $4.67$ $21.97$ $9$ 3 $4$ $3.31$ $1.16$ $8.48$ $4$ 5 $3.0$ $3.0$ $7.16$ $2.52$ $13.68$ $6$ 7 $3.31$ $1.16$ $8.48$ $4$ $5$ $6$ $7$ $9.09$ $3.19$ $16.28$ $7$ $8$ $9.09$ $3.19$ $16.28$ $7$ $9.09$ $3.19$ $16.28$ $7$ $8$ $9.09$ $3.19$ $16.28$ $8$ $9$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4.0 % GUTTER LINE PROFILE         H       W       Y $X_{2u}$ $X_{2L}$ $L_2$ INCHES       FEET       INCHES       FEET       FEET       FEET         3 $3.68$ $1.29$ $8.97$ $3.0$ 4 $5.60$ $1.97$ $11.57$ $5.60$ 5 $2.75$ $2.75$ $7.53$ $2.64$ $14.17$ $6$ 7 $9.45$ $3.32$ $16.77$ $7$ $7$ 8 $1.30$ $4.67$ $21.97$ $9$ 9 $13.30$ $4.67$ $21.97$ $9$ 3 $5.24$ $1.84$ $11.08$ $5$ 6 $3.0$ $3.0$ $7.16$ $2.52$ $13.68$ $6$ 7 $11.01$ $3.87$ $18.88$ $8$ $9$ 6 $3.0$ $3.0$ $7.16$ $2.52$ $13.68$ $6$ 7 $11.01$ $3.87$ $18.88$ $8$ $9$ $7$ $7$ 8 $2.58$ $0.91$ $7.49$ $4$ </td <td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2u}</math> <math>X_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>3.68</math> <math>1.29</math> <math>8.97</math> <math>3.0</math>         4       <math>5.60</math> <math>1.97</math> <math>11.57</math> <math>5.60</math>         5       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>9.45</math> <math>3.32</math> <math>16.77</math> <math>7</math> <math>7</math>         8       <math>1.30</math> <math>4.67</math> <math>21.97</math> <math>9</math>         9       <math>13.30</math> <math>4.67</math> <math>21.97</math> <math>9</math>         3       <math>5.24</math> <math>1.84</math> <math>11.08</math> <math>5</math>         6       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math> <math>6</math>         7       <math>11.01</math> <math>3.87</math> <math>18.88</math> <math>8</math> <math>9</math>         6       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math> <math>6</math>         7       <math>11.01</math> <math>3.87</math> <math>18.88</math> <math>8</math> <math>9</math> <math>7</math> <math>7</math>         8       <math>2.58</math> <math>0.91</math> <math>7.49</math> <math>4</math><!--</td--><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2u}</math> <math>X_{2l}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>X_{2u}</math> <math>X_{2l}</math> <math>L_2</math>       H         3       <math>X_{2l}</math> <math>L_2</math>       H         3       <math>X_{2l}</math> <math>EET</math>       FEET       H         3       <math>X_{2l}</math> <math>K_{2l}</math> <math>L_2</math>       H         5       <math>X_{2l}</math> <math>K_{2l}</math> <math>K_{2l}</math> <math>K_{2l}</math> <math>K_{2l}</math>         6       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>11.38</math> <math>4.00</math> <math>19.37</math> <math>8</math> <math>3</math> <math>3</math> <math>3</math> <math>4.67</math> <math>21.97</math> <math>9</math> <math>3</math>         6       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math></td><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2u}</math> <math>X_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>X_{2u}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2L}</math> <math>Z_2</math> <math>X_{2L}</math> <math>L_2</math>         4       <math>X_{2L}</math> <math>X_{2L}</math> <math>L_2</math>       H         5       <math>X_{2L}</math> <math>X_{2L}</math> <math>L_2</math> <math>X_{2L}</math> <math>L_2</math>         6       <math>2.75</math> <math>Z.75</math> <math>Z.55</math> <math>Z.64</math> <math>14.17</math> <math>6</math>         7       <math>11.38</math> <math>4.00</math> <math>19.37</math> <math>8</math> <math>3</math> <math>3</math> <math>3</math> <math>3</math> <math>4.67</math> <math>21.97</math> <math>9</math> <math>3</math> <math>3</math> <math>4</math> <math>4</math> <math>4</math> <math>4</math> <math>4</math> <math>5</math></td><td>4.0 % GUTTER LINE PROFILE         5           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>           INCHES         FEET         INCHES         FEET         FEET         FEET         INCHE           3        </td><td>4.0 % GUTTER LINE
PROFILEHWY<math>X_{2U}</math><math>X_{2L}</math><math>L_2</math>INCHESFEETINCHESFEETFEET3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>FEET</math>FEET3<math>X_{2L}</math><math>K_{2L}</math><math>L_2</math>4<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>3<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>4<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>5<math>66</math><math>2.75</math><math>2.75</math><math>66</math><math>2.75</math><math>2.75</math><math>7.53</math><math>2.64</math><math>14.17</math><math>66</math><math>7.7</math><math>9.45</math><math>3.32</math><math>16.77</math><math>7</math><math>11.38</math><math>4.00</math><math>19.37</math><math>8</math><math>13.30</math><math>4.67</math><math>21.97</math><math>9</math><math>3.31</math><math>1.16</math><math>8.48</math><math>4</math><math>5.24</math><math>1.84</math><math>11.08</math><math>5</math><math>3.0</math><math>3.0</math><math>7.16</math><math>2.52</math><math>7.16</math><math>2.52</math><math>13.68</math><math>66</math><math>7</math><math>9.09</math><math>3.19</math><math>16.28</math><math>7</math><math>11.01</math><math>3.87</math><math>18.88</math><math>9</math><math>12.94</math><math>4.54</math><math>21.48</math><math>9</math><math>0.66</math><math>0.23</math><math>4.89</math><math>3</math><math>4.51</math><math>1.58</math><math>10.09</math><math>6</math><math>3.5</math><math>3.5</math><math>6.43</math><math>2.26</math><math>7</math><math>8.36</math><math>2.93</math><math>15.29</math><math>7</math></td><td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2}</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>3</math>         4       <math>X_{2}</math> <math>X_{2}</math></td></td> | 4.0 % GUTTER LINE PROFILE         H       W       Y $X_{2u}$ $X_{2L}$ $L_2$ INCHES       FEET       INCHES       FEET       FEET       FEET         3 $3.68$ $1.29$ $8.97$ $3.0$ 4 $5.60$ $1.97$ $11.57$ $5.60$ 5 $2.75$ $2.75$ $7.53$ $2.64$ $14.17$ $6$ 7 $9.45$ $3.32$ $16.77$ $7$ $7$ 8 $1.30$ $4.67$ $21.97$ $9$ 9 $13.30$ $4.67$ $21.97$ $9$ 3 $5.24$ $1.84$ $11.08$ $5$ 6 $3.0$ $3.0$ $7.16$ $2.52$ $13.68$ $6$ 7 $11.01$ $3.87$ $18.88$ $8$ $9$ 6 $3.0$ $3.0$ $7.16$ $2.52$ $13.68$ $6$ 7 $11.01$ $3.87$ $18.88$ $8$ $9$ $7$ $7$ 8 $2.58$ $0.91$ $7.49$ $4$ </td <td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2u}</math> <math>X_{2l}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>X_{2u}</math> <math>X_{2l}</math> <math>L_2</math>       H         3       <math>X_{2l}</math> <math>L_2</math>       H         3       <math>X_{2l}</math> <math>EET</math>       FEET       H         3       <math>X_{2l}</math> <math>K_{2l}</math> <math>L_2</math>       H         5       <math>X_{2l}</math> <math>K_{2l}</math> <math>K_{2l}</math> <math>K_{2l}</math> <math>K_{2l}</math>         6       <math>2.75</math> <math>2.75</math> <math>7.53</math> <math>2.64</math> <math>14.17</math> <math>6</math>         7       <math>11.38</math> <math>4.00</math> <math>19.37</math> <math>8</math> <math>3</math> <math>3</math> <math>3</math> <math>4.67</math> <math>21.97</math> <math>9</math> <math>3</math>         6       <math>3.0</math> <math>3.0</math> <math>7.16</math> <math>2.52</math> <math>13.68</math></td> <td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2u}</math> <math>X_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>X_{2u}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2L}</math> <math>Z_2</math> <math>X_{2L}</math> <math>L_2</math>         4       <math>X_{2L}</math> <math>X_{2L}</math> <math>L_2</math>       H         5       <math>X_{2L}</math> <math>X_{2L}</math> <math>L_2</math> <math>X_{2L}</math> <math>L_2</math>         6       <math>2.75</math> <math>Z.75</math> <math>Z.55</math> <math>Z.64</math> <math>14.17</math> <math>6</math>         7       <math>11.38</math> <math>4.00</math> <math>19.37</math> <math>8</math> <math>3</math> <math>3</math> <math>3</math> <math>3</math> <math>4.67</math> <math>21.97</math> <math>9</math> <math>3</math> <math>3</math> <math>4</math> <math>4</math> <math>4</math> <math>4</math> <math>4</math> <math>5</math></td> <td>4.0 % GUTTER LINE PROFILE         5           H         W         Y         X<sub>2U</sub>         X<sub>2L</sub>         L<sub>2</sub>           INCHES         FEET         INCHES         FEET         FEET         FEET         INCHE           3        </td> <td>4.0 % GUTTER LINE PROFILEHWY<math>X_{2U}</math><math>X_{2L}</math><math>L_2</math>INCHESFEETINCHESFEETFEET3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>L_2</math>H3<math>X_{2L}</math><math>FEET</math>FEET3<math>X_{2L}</math><math>K_{2L}</math><math>L_2</math>4<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>3<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>4<math>X_{2L}</math><math>K_{2L}</math><math>K_{2L}</math>5<math>66</math><math>2.75</math><math>2.75</math><math>66</math><math>2.75</math><math>2.75</math><math>7.53</math><math>2.64</math><math>14.17</math><math>66</math><math>7.7</math><math>9.45</math><math>3.32</math><math>16.77</math><math>7</math><math>11.38</math><math>4.00</math><math>19.37</math><math>8</math><math>13.30</math><math>4.67</math><math>21.97</math><math>9</math><math>3.31</math><math>1.16</math><math>8.48</math><math>4</math><math>5.24</math><math>1.84</math><math>11.08</math><math>5</math><math>3.0</math><math>3.0</math><math>7.16</math><math>2.52</math><math>7.16</math><math>2.52</math><math>13.68</math><math>66</math><math>7</math><math>9.09</math><math>3.19</math><math>16.28</math><math>7</math><math>11.01</math><math>3.87</math><math>18.88</math><math>9</math><math>12.94</math><math>4.54</math><math>21.48</math><math>9</math><math>0.66</math><math>0.23</math><math>4.89</math><math>3</math><math>4.51</math><math>1.58</math><math>10.09</math><math>6</math><math>3.5</math><math>3.5</math><math>6.43</math><math>2.26</math><math>7</math><math>8.36</math><math>2.93</math><math>15.29</math><math>7</math></td> <td>4.0 % GUTTER LINE PROFILE         H       W       Y       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>         INCHES       FEET       INCHES       FEET       FEET       FEET         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2U}</math> <math>X_{2L}</math> <math>L_2</math>       H         3       <math>X_{2}</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>FEET</math> <math>3</math>         4       <math>X_{2}</math> <math>X_{2}</math></td> | 4.0 % GUTTER LINE PROFILE         H       W       Y $X_{2u}$ $X_{2l}$ $L_2$ INCHES       FEET       INCHES       FEET       FEET       FEET         3 $X_{2u}$ $X_{2l}$ $L_2$ H         3 $X_{2l}$ $L_2$ H         3 $X_{2l}$ $EET$ FEET       H         3 $X_{2l}$ $K_{2l}$ $L_2$ H         5 $X_{2l}$ $K_{2l}$ $K_{2l}$ $K_{2l}$ $K_{2l}$ 6 $2.75$ $2.75$ $7.53$ $2.64$ $14.17$ $6$ 7 $11.38$ $4.00$ $19.37$ $8$ $3$ $3$ $3$ $4.67$ $21.97$ $9$ $3$ 6 $3.0$ $3.0$ $7.16$ $2.52$ $13.68$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 4         3.68         1.29         8.97         4           5         5.60         1.97         11.57         5           6         2.75         2.75         7.53         2.64         14.17         6           7         9.45         3.32         16.77         7           8         11.38         4.00         19.37         8           9         13.30         4.67         21.97         9           3         1.39         0.49         5.88         3           4         3.31         1.16         8.48         4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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 3.87       18.88       8         9       12.94       4.54       21.48       9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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  7.16       2.52       13.68       6         7       9.09       3.19       16.28       7       7         8       9       11.01       3.87       18.88       8         9       12.94       4.54       21.48       9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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 5         5.24         1.84         11.08         5           6         3.0         3.0         7.16         2.52         13.68         6           7         9.09         3.19         16.28         7         7           8         9         11.01         3.87         18.88         8           9         3         0.66         0.23         4.89         3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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        6           7         9.09         3.19         16.28         7         7           8         9         11.01         3.87         18.88         8           9         3         0.66         0.23         4.89         3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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5.88       3         4       5       3.0       3.0       7.16       2.52       13.68       6         7       9.09       3.19       16.28       7       7         8       9       3.0       3.0       7.16       2.52       13.68       6         70       9.09       3.19       16.28       7       7         8       9.09       3.19       16.28       7       7         8       9       11.01       3.87       18.88       8       9         3       0.66       0.23       4.89       3       3       3       3       3       3       3       4       9       3       3 <td< th=""><th>4       3.68       1.29       8.97       4         5       5.60       1.97       11.57       5         6       2.75       2.75       7.53       2.64       14.17       6         7       9.45       3.32       16.77       7       8         9       11.38       4.00       19.37       8       9         3       1.30       4.67       21.97       9         3       1.39       0.49       5.88       3         4       5       3.0       3.0       7.16       2.52       13.68       6         7       9.09       3.19       16.28       7       7         8       9       3.0       3.0       7.16       2.52       13.68       6         70       9.09       3.19       16.28       7       7         8       9.09       3.19       16.28       7       7         8       9       11.01       3.87       18.88       8       9         3       0.66       0.23       4.89       3       3       3       3       3       3       3       4       9       3       3       <td< th=""><th>4       3.68       1.29       8.97       4         5       5.60       1.97       11.57       5         6       2.75       2.75       7.53       2.64       14.17       6         7       9.45       3.32       16.77       7       8         9       11.38       4.00       19.37       8       9         3       1.30       4.67       21.97       9         3       1.39       0.49       5.88       3         4       5       3.0       3.0       7.16       2.52       13.68       6         7       9.09       3.19       16.28       7       7         8       9       3.0       3.0       7.16       2.52       13.68       6         70       9.09       3.19       16.28       7       7         8       9.09       3.19       16.28       7       7         8       9       11.01       3.87       18.88       8       9         3       0.66       0.23       4.89       3       3       3       3       3       3       3       4       9       3       3       <td< th=""><th><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></th><th><math display="block"> \begin{array}{c} 4 \\ 5 \\ 5 \\ 6 \\ 7 \\ 7 \\ 8 \\ 9 \\ \end{array} \begin{array}{c} 2.75 \\ 2.75 \\ 2.75 \\ 2.75 \\ 2.75 \\ 2.75 \\ 2.75 \\ 2.75 \\ 2.75 \\ 2.75 \\ 2.75 \\ 2.75 \\ 7.53 \\ 2.64 \\ 14.17 \\ 9.45 \\ 3.32 \\ 11.38 \\ 4.00 \\ 19.37 \\ 11.38 \\ 4.00 \\ 19.37 \\ 19 \\ 3 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 13.30 \\ 4.67 \\ 21.97 \\ 9 \\ 9 \\ 9 \\ 9 \\ 13.30 \\ 4.67 \\ 21.97 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 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      3.0       7.16       2.52       13.68       6         7       9.09       3.19       16.28       7         8       11.01       3.87       18.88       8         9       0.66       0.23       4.89       3         3       0.66       0.23       4.89       3         4       2.58       0.91       7.49       4         5       4.51       1.58       10.09       5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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    3.19       16.28       7       7         8       11.01       3.87       18.88       8         9       12.94       4.54       21.48       9         3       0.66       0.23       4.89       3         4       2.58       0.91       7.49       4         5       3.5       3.5       6.43       2.26       12.69       6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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11.01       3.87       18.88       8         9       12.94       4.54       21.48       9         3       0.66       0.23       4.89       3         4       2.58       0.91       7.49       4         5       3.5       3.5       6.43       2.26       12.69       6         7       8.36       2.93       15.29       7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                                                  | 4         2.58         0.91         7.49         4           5         4.51         1.58         10.09         5           6         3.5         3.5         6.43         2.26         12.69         6           7         8.36         2.93         15.29         7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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1.0	% GUTTE	R LINE PRO	DFILE			1	2.0	% GUTTE	R LINE PRO	FILE		1
H	W	Y	X <sub>2U</sub>	X <sub>2L</sub>	Lz		H	W	Y	X <sub>zu</sub>	X <sub>2L</sub>	L <sub>2</sub>
INCHES	FEET	INCHES	FEET	FEET	FEET		INCHES	FEET	INCHES	FEET	FEET	FEET
3			1.04	0.81	5.85		3			1.20	0.73	5.93
4			2.17	1.71	7.88		4			2.52	1.54	8.06
5			3.31	2.60	9.91		5			3.83	2.35	10.18
6	2.75	2.75	4.45	3.49	11.94		6	2.75	2.75	5.15	3.16	12.30
7			5.58	4.39	13.97		7			6.47	3.96	14.43
8	·		6.72	5.28	16.00		8			7.78	4.77	16.55
9			7.86	6.17	18.03		9			9.10	5.58	18.67
3	· · · · ·		0.82	0.64	5.46		3			0.95	0.58	5.53
4			1.96	1.54	7.49		4			2.27	1.39	7.65
5			3.09	2.43	9.52		5			3.58	2.20	9.78
6	3,0	3.0	4.23	3.32	11.55		6	3.0	3.0	4.90	3.00	11.90
7			5.37	4.22	13.58		7			6.22	3.81	14.02
8	· ·····		6.50	5.11	15.61		8			7.53	4.62	16.15
9			7.64	6.00	17.64		9			8.85	5.42	18.27
3			0.39	0.30	4.69		3			0.45	0.28	4.72
4			1.53	1.20	6.72		4			1.77	1.08	6.85
5			2.66	2.09	8.75		5			3.08	1.89	8.97
6	3.5	3.5	3.80	2.98	10.78		6	3.5	3.5	4.40	2.70	11.09
7			4.94	3.88	12.81		7			5.72	3.50	13.22
8			6.07	4.77	14.84		8			7.03	4.31	15.34
9			7.21	5.66	16.87		9			8.35	5.12	17.46
3			**	**	**		3			**	**	**
4			1.09	0.86	5.95		4			1.27	0.78	6.04
5			2.23	1.75	7.98		5			2.58	1.58	8.16
6	4.0	4.0	3.37	2.65	10.01		6	4.0	4.0	3.90	2.39	10.29
7			4.50	3.54	12.04		7			5.22	3.20	12.41
8			5.64	4.43	14.07		8			6.53	4.00	14.53
9			6.78	5.32	16.10		9			7.85	4.81	16.66

5.0	% GUTTE	R LINE PRO	OFILE			6.0	% GUTTE	R LINE PRO	DFILE		
Η	W	Y	Х <sub>20</sub>	X <sub>2L</sub>	L <sub>2</sub>	H	W	Y	X <sub>2U</sub>	X <sub>21</sub>	L <sub>2</sub>
INCHES	FEET	INCHES	FEET	FEET	FEET	INCHES	FEET	INCHES	FEET	FEET	FEET
3			2.28	0.57	6.85	3			3.26	0.53	7.79
4			4.78	1.19	9.98	4			6.84	1.11	11.95
5			7.29	1.82	13.10	5			10.41	1.69	16.10
6	2.75	2.75	9.79	2.45	16.23	6	2.75	2.75	13.99	2.27	20.26
7			12.29	3.07	19.36	7			15.00	2.86	21.86
8			14.79	3.70	22.49	8			15.00	3.44	22.44
9			15.00	4.32	23.32	9			15.00	4.02	23.02
3			1.80	0.45	6.26	3			2.58	0.42	7.00
4			4.31	1.08	9.38	4			6.16	1.00	11.16
5			6.81	1.70	12.51	5			9.73	1.58	15.31
6	3.0	3.0	9.31	2.33	15.64	6	3.0	3.0	13.31	2.16	19.47
7			11.81	2.95	18.77	7			15.00	2.75	21.75
8			14.32	3.58	21.89	8			15.00	3.33	22.33
9			15.00	4.20	23.20	9			15.00	3.91	22.91
3			0.85	0.21	5.07	3			1.22	0.20	5.42
4			3.36	0.84	8.20	4			4.80	0.78	9.58
5			5.86	1.46	11.32	5			8.37	1.36	13.74
6	3.5	3.5	8.36	2.09	14.45	6	3.5	3.5	11.95	1.94	17.89
7			10.86	2.71	17.58	7			15.00	2.52	21.52
8			13.37	3.34	20.71	8			15.00	3.11	22.11
9			15.00	3.96	22.96	9			15.00	3.69	22.69
3			**	**	**	3			**	**	**
4			2.41	0.60	7.01	4			3.44	0.56	8.00
5			4.91	1.23	10.14	5			7.02	1.14	12.16
6	4.0	4.0	7.41	1.85	13.26	6	4.0	4.0	10.59	1.72	16.31
7			9.91	2.48	16.39	7			14.17	2.30	20.47
8			12.42	3.10	19.52	8			15.00	2.89	21.89
9			14.92	3.73	22.65	9			15.00	3.47	22.47

### ES:

OR CURB RAMP TYPES, SEE CD-606-1.

- LENGTHS WHICH EXCEED 15 FEET.

		SHEET	

## CLIDD DAMD TVDE A

3.0	% GUTTE	R LINE PRO	DFILE		
Н	W	Y	X <sub>2U</sub>	X <sub>2L</sub>	L <sub>2</sub>
INCHES	FEET	INCHES	FEET	FEET	FEET
3			1.42	0.67	6.09
4	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -		2.9 <del>9</del>	1.41	8.39
5			4.55	2.14	10.69
6	2.75	2.75	6.11	2.88	12.99
7			7.68	3.61	15.29
8			9.24	4.35	17.59
9			10.81	5.08	19.89
3		· · · · · . ·	1.13	0.53	5.66
4			2.6 <del>9</del>	1.27	7.96
5			4.25	2.00	10.26
6	3.0	3.0	5.82	2.74	12.55
7		a trade este	7.38	3.47	14.85
8	a survey of the	and the second second	8.94	4.21	17.15
9			10.51	4.94	19.45
3			0.53	0.25	4.78
4			2.10	0.99	7.08
5			3.66	1.72	9.38
6	3.5	3.5	5.22	2.46	11.68
7			6.79	3.19	13.98
8			8.35	3.93	16.28
9			9.91	4.66	18.58
3			**	**	**
4			1.50	0.71	6.21
5			3.07	1.44	8.51
6	4.0	4.0	4.63	2.18	10.81
7			6.19	2.91	13.11
8			7.76	3.65	15.41
9			9.32	4.38	17.71

7.0	% GUTTE	R LINE PRO	OFILE		
Н	W	Y	Х <sub>2U</sub>	X <sub>2L</sub>	L <sub>2</sub>
INCHES	FEET	INCHES	FEET	FEET	FEET
3			5.71	0.50	10.20
4			11.97	1.04	17.01
5			15.00	1.58	20.58
6	2.75	2.75	15.00	2.13	21.13
7			15.00	2.67	21.67
8			15.00	3.21	22.21
9			15.00	3.76	22.76
3			4.52	0.39	8.91
4			10.78	0.94	15.72
5			15.00	1.48	20.48
6	3.0	3.0	15.00	2.02	21.02
7			15.00	2.57	21.57
8			15.00	3.11	22.11
9			15.00	3.65	22.65
3			2.14	0.19	6.32
4			8.40	0.73	13.13
5			14.67	1.27	19.94
6	3.5	<b>3</b> .5	15.00	1.82	20.82
7			15.00	2.36	21.36
8			15.00	2.90	21.90
9			15.00	3.45	22.45
3			**	**	**
4			6.03	0.52	10.55
5			12.29	1.07	17.36
6	4.0	4.0	15.00	1.61	20.61
7			15.00	2.15	21.15
8			15.00	2.70	21.70
9			15.00	3.24	22.24

ABOVE TABLES ARE BASED ON THE SPECIFIC GUTTER PROFILE REFERENCED. IEY DO NOT TAKE INTO ACCOUNT VARIATIONS IN THE GUTTER PROFILE. THE ABOVE TABLES BE USED BY THE DESIGNERS AND CONTRACTORS TO GET APPROXIMATE DIMENSIONS OF E CURB RAMP AT EACH LOCATION. FINAL DIMENSIONS WILL BE DETERMINED BY ACTUAL ASUREMENTS IN THE FIELD DURING CONSTRUCTION.

12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS X IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS. ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT REQUIRE ITS LENGTH TO EXCEED 15 FEET. THE RUNNING SLOPE MAY EXCEED THE 12H:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXIMUM LENGTH. THE TABLES ALREADY APPLY THE 15 FEET RULE FOR THOSE CALCULATED

4. DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.

LEGEND

U = UPPER SIDE OF GUTTER LINE PROFILE L = LOWER SIDE OF GUTTER LINE PROFILE FOR THE OTHER ABBREVIATIONS - REFER TO CD-606-1 \* TYPE 3 RAMP IS NOT APPLICABLE, USE TYPE 1 \*\* TYPE 4 RAMP IS NOT APPLICABLE, USE TYPE 2

## CURB RAMP TYPE 7

H INCHES	W FEET	X <sub>1U</sub> FEET	X <sub>1L</sub> FEET	L <sub>1</sub> FEET
3		3.00	3.00	10.00
4		4.00	4.00	12.00
5	4' MIN.	5.00	5.00	14.00
6		6.00	6.00	16.00
7	7' MAX.	7.00	7.00	18.01
8		8.00	8.00	20.01
9		9.00	9.00	22.01

1.0 % OOTTER LINE FROFILE					
Н	W	X <sub>iU</sub>	X <sub>il</sub>	L <sub>1</sub>	
INCHES	FEET	FEET	FEET	FEET	
3		3.41	2.68	10.09	
4		4.55	3.57	12.12	
5	4' MIN.	5.68	4.47	14.15	
6		6.82	5.36	16.18	
7	7' MAX.	7.96	6.25	18.21	
8		9.10	7. <b>1</b> 5	20.24	
9		10.23	8.04	22.27	

2.0	2.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	X <sub>1U</sub> FEET	X <sub>1L</sub> FEET	L <sub>1</sub> FEET		
3		3.95	2.42	10.37		
4	4' MIN.	5.27	3.23	12.49		
5		6.58	4.03	14.62		
6		7.90	4,84	16.74		
7	7' MAX.	9.22	5.65	18.86		
8		10.53	6.45	20.99		
9		11.85	7.26	23.11		

3.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	X <sub>1U</sub> FEET	X <sub>1L</sub> FEET	L <sub>1</sub> FEET	
3		4.69	2.21	10.90	
4	4' MIN.	6.25	2.94	13.20	
5		7.82	3.68	15.49	
6		9.38	4.41	17.79	
7	7' MAX.	10.94	5.15	20.09	
8		12.51	5.88	22.39	
9		14.07	6.62	24.69	

			•	٠			
					•	•	

4.0 % GUTTER LINE PROFILE						
H INCHES	W FEET	X <sub>1U</sub> FEET	X <sub>1L</sub> FEET	L1 FEET		
3		5.77	2.03	11.80		
4		7.70	2.70	14.40		
5	4' MIN.	9.62	3.38	17.00		
6		11.55	4.06	19.60		
7	7' MAX.	13.47	4.73	22.20		
8		15.40	5.41	24.80		
9		17.32	6.08	27.40		

5.0	5.0 % GUTTER LINE PROFILE						
Н	W	X <sub>1U</sub>	X <sub>1L</sub>	L1			
INCHES	FEET	FEET	FEET	FEET			
3		7.51	1.88	13.38			
4	4' MIN.	10.01	2.50	16.51			
5		12.51	3.13	19.64			
6		15.00	3.75	22.75			
7	7' MAX.	15.00	4.38	23.38			
8		15.00	5.00	24.00			
9		15.00	5.63	24.63			

6.0 % GUTTER LINE PROFILE						
Н	W	Х <sub>1U</sub>	X <sub>1L</sub>	L1		
INCHES	FEET	FEET	FEET	FEET		
3		10.73	1.74	16.47		
4		14.31	2.33	20.63		
5	4' MIN.	15.00	2.91	21.91		
6		15.00	3.49	22.49		
7	7' MAX.	15.00	4.07	23.07		
8		15.00	4.65	23.65		
9		15.00	5.23	24.23		

7.0 % GUTTER LINE PROFILE						
Н	W	X <sub>1U</sub>	X <sub>1L</sub>	L1		
INCHES	FEET	FEET	FEET	FEET		
3		15.00	1.63	20.63		
4	4' MIN.	15.00	2.17	21.17		
5		15.00	2.72	21.72		
6		15.00	3.26	22.26		
7	7' MAX.	15.00	3.81	22.81		
8		15.00	4.35	23.35		
9		15.00	4.89	23.89		



N.T.S.

CD-606-4

<u>39</u> <u>39</u>

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

CD-606-4.1