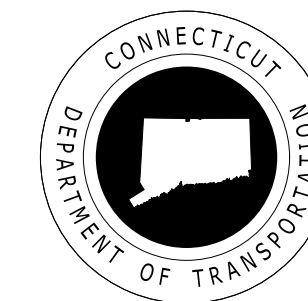
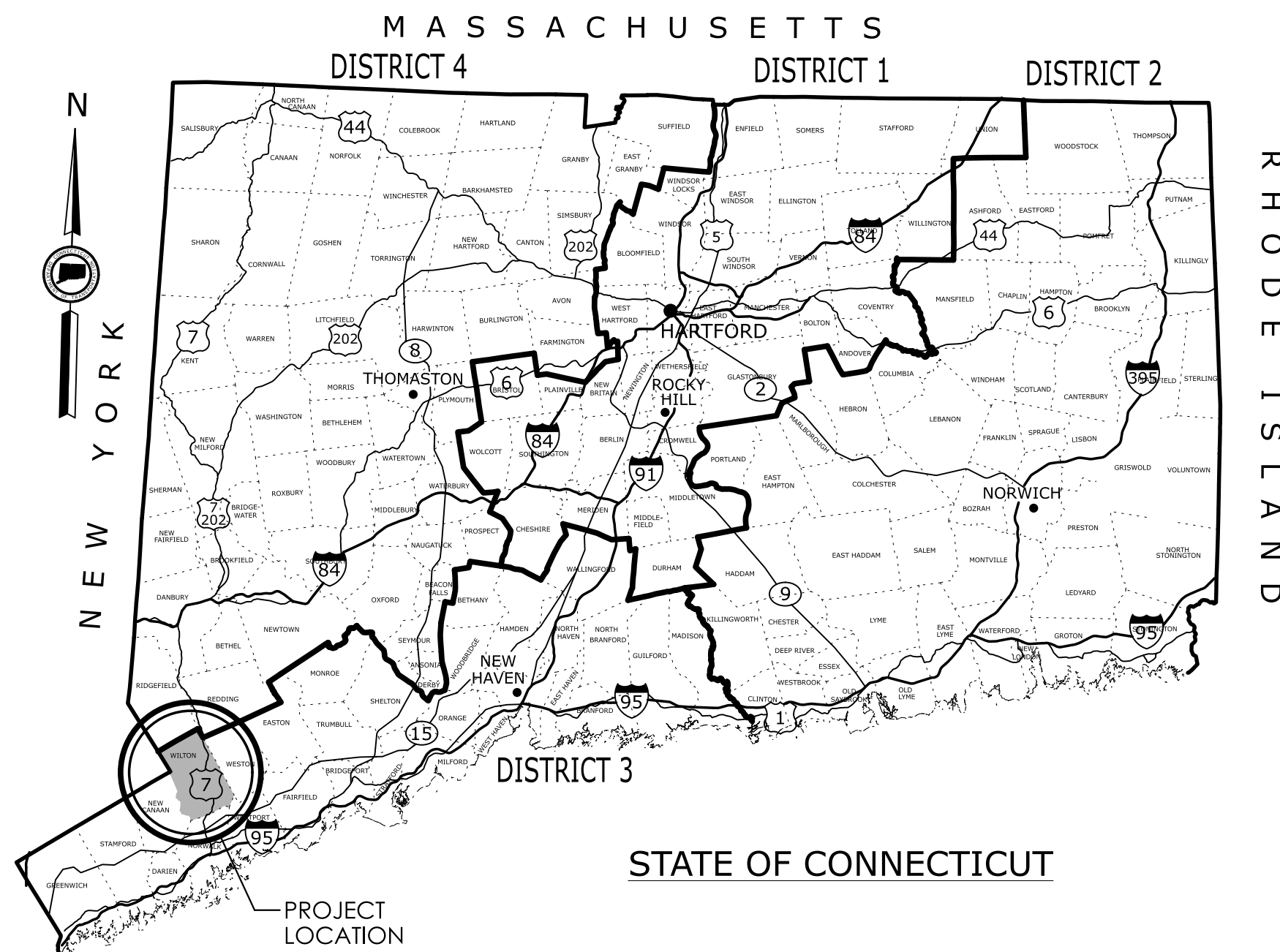


CONNECTICUT DEPARTMENT OF TRANSPORTATION



Plans For REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER Town of WILTON



GENERAL NOTES:

- CONSTRUCTION SPECIFICATIONS:
Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 818, dated 2020; Supplemental Specifications, dated January 2022; and Special Provisions
- 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM N.A.D. 1983 (2011)
- VERTICAL DATUM BASED ON NAVD 1988
- Surveyed By: CONNECTICUT D.O.T. DISTRICT 3

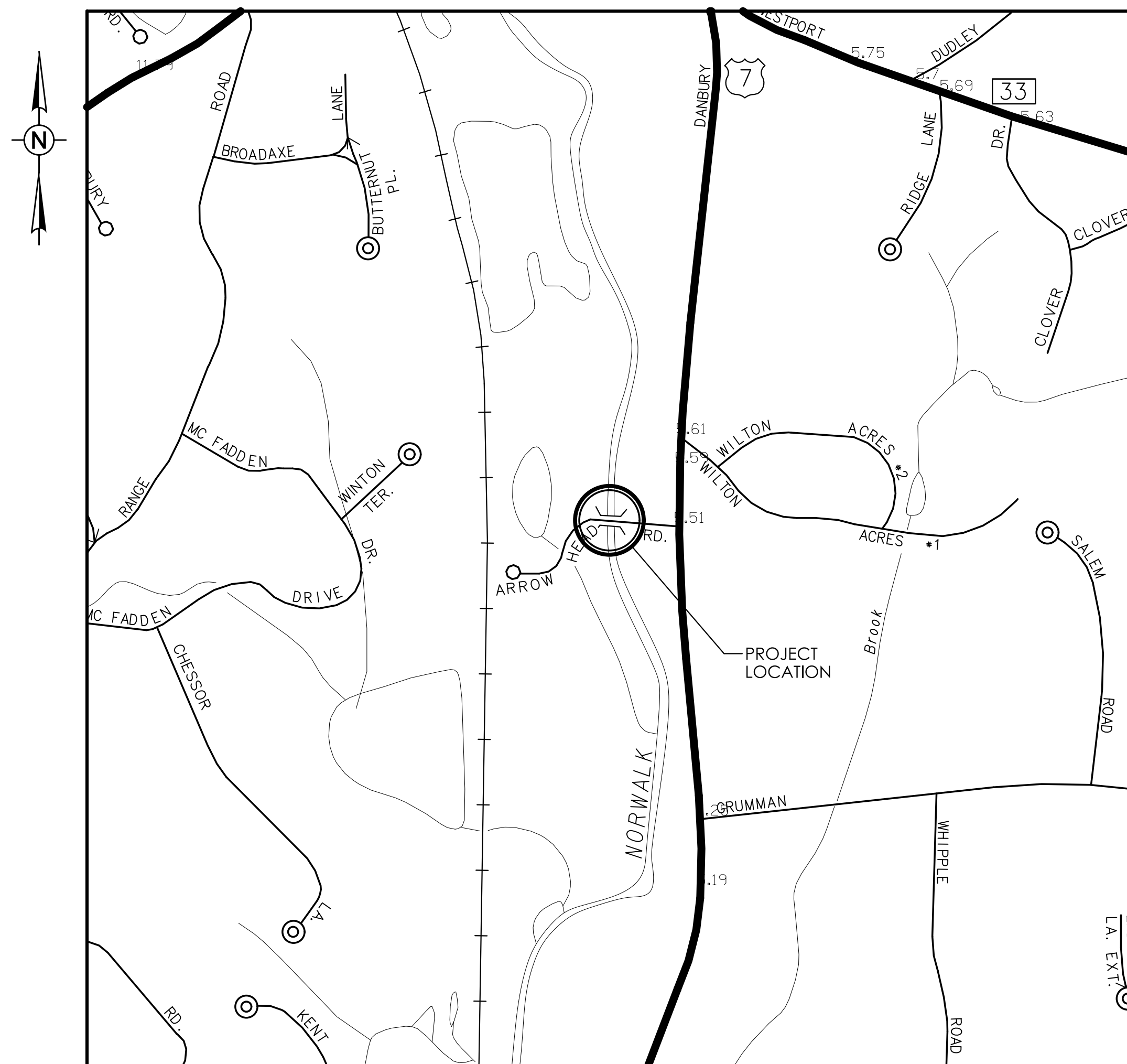
DISCLAIMER:

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICIAL SOURCES WITHIN THE DEPARTMENT.

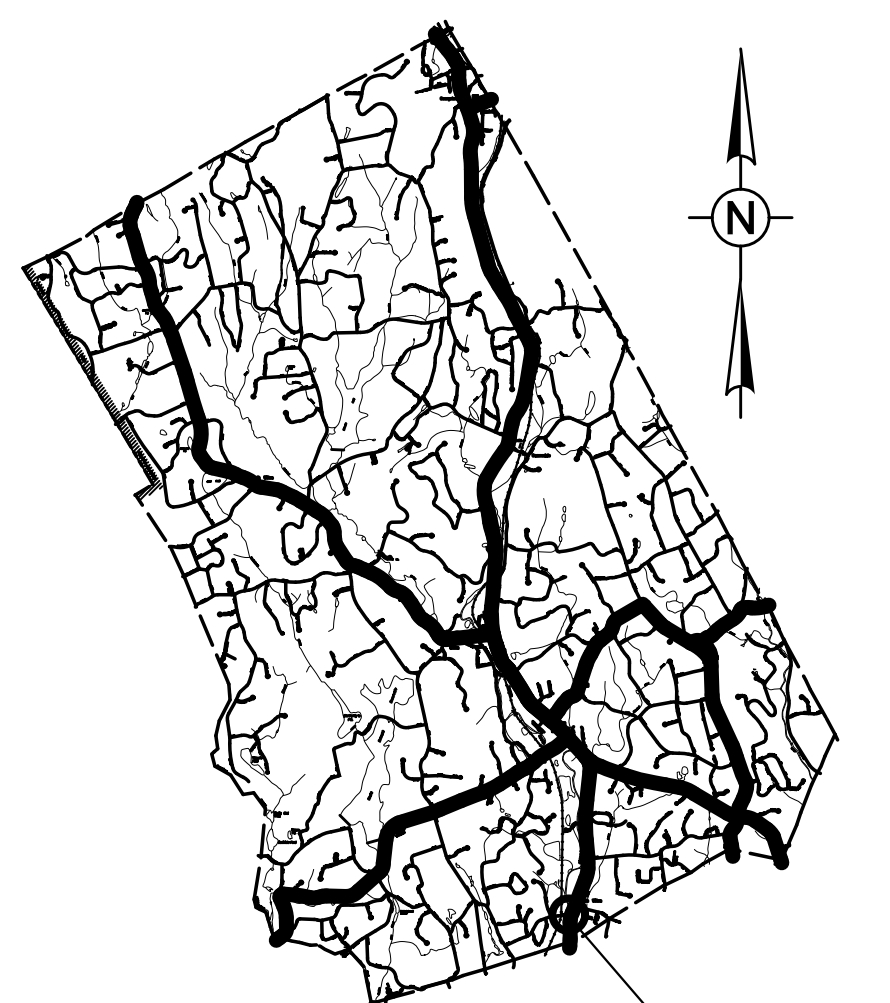
PERSONS AND/OR ENTITIES WHICH REPRODUCE AND/OR MAKE SUCH INFORMATION AVAILABLE BY ANY MEANS ARE NOT AUTHORIZED BY THE DEPARTMENT TO DO SO AND MAY BE LIABLE FOR CLAIMS RESULTING FROM THE DISSEMINATION OF UNOFFICIAL, INCOMPLETE AND/OR INACCURATE INFORMATION.

ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
ARROWHEAD RD.	TOWN	370 FEET

F.A.P. #	MAINTENANCE RESPONSIBILITY	PROJECT #
6161(007)	TOWN	0161-0143



LOCATION PLAN
NOT TO SCALE



TOWN OF WILTON
NOT TO SCALE

HIGHWAY CLASSIFICATION: LOCAL URBAN STREET
DESIGN SPEED: 30 MPH
ADT (2020): 83 VEH/DAY

DESIGN STANDARD:
AASHTO "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 2018"
CONNECTICUT DEPARTMENT OF TRANSPORTATION "HIGHWAY DESIGN MANUAL, 2003"
WITH CURRENT REVISIONS
AASHTO "LRFD BRIDGE DESIGN SPECIFICATIONS, AASHTO 9TH EDITION 2020"
CONNECTICUT DEPARTMENT OF TRANSPORTATION "BRIDGE DESIGN MANUAL, 2003"
WITH 2019 INTERIM REVISIONS

LIST OF SUBSETS		
SUBSET NO.	SUBSET TITLE	*SUBSET SHEET COUNT
#01	GENERAL	3
#02	REVISIONS	1
#03	HIGHWAY	17
#04	TRAFFIC	8
#05	STRUCTURE	21
#06	LANDSCAPE	2
#07	FIO - UTILITY RELOCATION	6
	HIGHWAY STANDARD SHEETS	12
	TRAFFIC STANDARD SHEETS	14

LIST OF DRAWINGS SUBSET 01 - GENERAL	
DRAWING TITLE	DRAWING NO.
TITLE SHEET	G-01
DETAILED ESTIMATE SHEET - 01	G-02
DETAILED ESTIMATE SHEET - 02	G-03

STANDARD CONVENTIONS					
North Arrow W/No. Coord.	Grid Arrow	Chain Link Fence	Water Edge	Riprap	
Edge Of Road	Limit Of Marsh	Rustic Fence	Stream	Hedge Row	Tree Line
Concrete Pavement	Stone Wall	Pipe Fence	Ditch	Shrub	Evergreen Tree
Dirt Road	Ledge Outcrop	Board Fence	TOWN LINE	Deciduous Tree	Retaining Wall
B.C.L.C.	Inland Wetland Limits	Property Line	Highway Line		
Granite Curb	STATE LINE	Lot Line	Street Line		
Guide Rail	Power Line	Easement Line			
Concrete Median Barrier	Swamp				
Bit. Walk	Contc. Sidewalk				
Building	Transmission Tower				
Railroad Tracks					

DESIGNED BY:
MOTT MACDONALD M M
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067

Jeffrey J. Long
2022.09.30
16:54:23-04'00'

FDP SUBMISSION
SEPTEMBER 28, 2022

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

Jeffrey J. Long Digitally signed by Jeffrey J. Long
Date: 2022.09.30 16:37:09-04'00'

SUBMITTED BY: DESIGNER

APPROVED BY: TOWN

Plans For
REPLACEMENT OF
BRIDGE NO. 05501
ARROWHEAD ROAD OVER NORWALK RIVER

Town of
WILTON

STATE PROJECT NO.
0161-0143

DRAWING NO.
G-01
SHEET NO.
01.01

		HIGHWAY ITEMS																																								
ITEM NUMBER	UNIT	0201001	0202000	0202216A	0202439A	02027000	0209001	0212000	0219001	0219011A	0304002	0305001	0402401	0406002A	0406171	0406172	0406173	0406236	0409001	0507300	0507554	0651011	0653001	0653002A	0703002A	0703003A	0813451	0910090A	0910091A	0910092A	0912496A	0922301	0939001	0942001	0943001	0949060A	0974003A	0975004	0980020	1210102	1303215A	
		CLEARING AND GRUBBING	EARTH EXCAVATION	EXCAVATION AND REUSE OF EXISTING CHANNEL BOTTOM MATERIAL	MONITORING WELL	BORROW	FORMATION OF SUBGRADE	SUBBASE	SEDIMENTATION CONTROL SYSTEM	SEDIMENT CONTROL SYSTEM AT CATCH BASIN	PROCESSED AGGREGATE BASE	PROCESSED AGGREGATE	SAWING AND SEALING JOINTS IN BITUMINOUS CONCRETE PAVEMENT	TEMPORARY PAVEMENT	HMA S0.5	HMA S0.375	HMA S0.25	MATERIAL FOR TACK COAT	FINE MILLING OF BITUMINOUS CONCRETE (0"-4")	TYPE "D-G" ENDWALL	RESET FRAME AND GRATE FOR CATCH BASIN	12" R.C. PIPE	CLEAN EXISTING CATCH BASIN	CLEAN DRAINAGE SYSTEM	PLACEMENT OF CHANNEL BOULDER	GRANITE STONE TRANSITION CURBING	STEEL BACKED TIMBER GUIDERAIL - TYPE A	STEEL BACKED TIMBER GUIDERAIL - TERMINAL SECTION	STEEL BACKED TIMBER GUIDERAIL - BRIDGE ATTACHMENT	REMOVE WOOD RAIL	BITUMINOUS CONCRETE DRIVEWAY	SWEEPING FOR DUST CONTROL	CALCIUM CHLORIDE FOR DUST CONTROL	WATER FOR DUST CONTROL	CONSTRUCTION FIELD OFFICE, SMALL	REMOVAL OF EXISTING RETAINING WALL	MOBILIZATION AND PROJECT CLOSEOUT	CONSTRUCTION SURVEYING	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS	ABOVE GROUND WATER STORAGE TANK		
BRIDGE 05501	L.S.	289	1	1	150	1822	45	710	4	127	68	234	321	86	111	31	91	85	2	2	322	3	L.S.	12	80	100	4	4	88	24	190	1	128	12	L.S.	L.S.	L.S.	740	1			
SUBTOTAL	L.S.	289	1	1	150	1822	45	710	4	127	68	234	321	86	111	31	91	85	2	2	322	3	L.S.	12	80	100	4	4	88	24	190	1	128	12	L.S.	L.S.	L.S.	740	1			
UNASSIGNED	-	25	1	-	15	183	5	71	-	13	7	24	33	9	12	4	10	9	-	-	-	-	-	-	-	-	-	-	9	3	19	-	13	-	-	-	-	-	-	-	-	-
TOTAL	L.S.	314	2	1	165	2005	50	781	4	140	75	258	354	95	123	35	101	94	2	2	322	3	L.S.	12	80	100	4	4	97	27	209	1	141	12	L.S.	L.S.	L.S.	740	1			

		STRUCTURE ITEMS																																								
ITEM NUMBER	UNIT	0203002	0204001	0204151	0213100	0216000	0402401	0502195A	0503001	0514203A	0514223A	0520036A	0520041	0521001	0601054A	0601064	0601121	0601123	0601504	0601640	0602030	0603474A	0605003A	0702101	0702109	0702111	0702115	0702120	0702820	0703011	0707009A	0708001	0714999A	0716000	0735009	0819002A	0904051A	0905002A	0974001	1208931		
		STRUCTURE EXCAVATION - EARTH (EXCLUDING COFFERDAM AND DEWATERING)	COFFERDAM AND DEWATERING	HANDLING WATER	GRANULAR FILL	PERVIOUS STRUCTURE BACKFILL	SAWING AND SEALING JOINTS IN BITUMINOUS CONCRETE	TEMPORARY BRIDGE	REMOVAL OF SUPERSTRUCTURE	PRESTRESSED DECK UNITS (3'-0" X 1'-6")	PRESTRESSED DECK UNITS (4'-0" X 1'-6")	ASPHALTIC PLUG EXPANSION JOINT SYSTEM	PREFORMED JOINT SEAL	ELASTOMERIC BEARING PADS	ULTRA HIGH PERFORMANCE CONCRETE	ABUTMENT AND WALL CONCRETE	PARAPET CONCRETE	APPROACH SLAB CONCRETE	1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	1" CLOSED CELL ELASTOMER	DEFORMED STEEL BARS - GALVANIZED	METALLIZING STRUCTURAL STEEL (SITE NO. 1)	MASONRY FACING	FURNISHING STEEL PILES	PRE-ALUERING OF PILES	DRIVING STEEL PILES	SPlicing STEEL PILES	POINT REINFORCEMENT FOR STEEL PILES	DYNAMIC PILE DRIVING ANALYSIS (P.D.A.) TEST	INTERMEDIATE RIPRAP	MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)	DAMP PROOFING	MONITORING STRUCTURES	TEMPORARY EARTH RETAINING SYSTEM	GEO TEXTILE	PENETRATING SEALER PROTECTIVE COMPOUND	3 TUBE CURB MOUNTED BRIDGE RAIL	REBUILD STONE WALL	REMOVAL OF EXISTING MASONRY	SIGN FACE - SHEET ALUMINUM TYPE IX RETRO REFLECTIVE (SHEETING)		
BRIDGE 05501	C.Y.	241	240	1	19	184	92	L.S.	L.S.	101	253	34	102	9144	3	65	136	34	121	15840	16623	L.S.	327	132240	400	1450	20	20	3	29	238	60	L.S.	1040	79	69	116	100	47	2		
SUBTOTAL	C.Y.	241	240	1	19	184	92	L.S.	L.S.	101	253	34	102	9144	3	65	136	34	121	15840	16623	L.S.	327	132240	400	1450	20	20	3	29	238	60	L.S.	1040	79	69	116	100	47	2		
UNASSIGNED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	C.Y.	241	240	1	19	184	92	L.S.	L.S.	101	253	34	102	9144	3	65	136	34	121	15840	16623	L.S.	327	132240	400	1450	20	20	3	29	238	60	L.S.	1040	79	69	116	100	47	2		

REV.	DATE	DESCRIPTION

TRAFFIC ITEMS																									
ITEM NUMBER	TRAFFIC ITEMS																								
	0822100.01	0822100.02	0822101.01	0822101.02	0970007	0971001A	0976002	0978002	0978003	0981100	1118051A	1205217	1208937	1212001	1212002	1212010	1220027	1802210.04	1802210.07	1802210.14	1802210.21	1802211.04	1802211.07	1802211.14	1802211.21
	TEMPORARY TRAFFIC BARRIER	TEMPORARY TRAFFIC BARRIER (PINNED)	RELOCATED TEMPORARY TRAFFIC BARRIER	RELOCATED TEMPORARY TRAFFIC BARRIER (PINNED)	TRAFFIC PERSON (UNIFORMED FLAGGER)	MAINTENANCE AND PROTECTION OF TRAFFIC	BARRICADE WARNING LIGHTS - HIGH INTENSITY	TRAFFIC DRUM	CONSTRUCTION BARRICADE III	42" TRAFFIC CONE	TEMPORARY SIGNALIZATION (SITE NO. 1)	TYPE DE-7D DELINEATOR	SIGN FACE-SHEET ALUMINUM TYPE X RETROREFLECTIVE SHEETING)	TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 4" YELLOW	TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 4" WHITE	TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 12" WHITE	CONSTRUCTION SIGNS	TEMPORARY SAND BARREL (400 LB.)	TEMPORARY SAND BARREL (700 LB.)	TEMPORARY SAND BARREL (1400 LB.)	TEMPORARY SAND BARREL (2100 LB.)	RELOCATION OF TEMPORARY SAND BARREL (400 LB.)	RELOCATION OF TEMPORARY SAND BARREL (700 LB.)	RELOCATION OF TEMPORARY SAND BARREL (1400 LB.)	RELOCATION OF TEMPORARY SAND BARREL (2100 LB.)
UNIT	L.F.	L.F.	L.F.	L.F.	HR.	L.S.	DAY	EA.	EA.	EA.	L.S.	EA.	S.F.	L.F.	L.F.	L.F.	S.F.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
BRIDGE 05501	280	80	540	80	112	L.S.	720	20	4	12	L.S.	14	1	210	2060	65	85	4	4	16	8	4	4	16	8
SUBTOTAL	280	80	540	80	112	L.S.	720	20	4	12	L.S.	14	1	210	2060	65	85	4	4	16	8	4	4	16	8
UNASSIGNED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	280	80	540	80	112	L.S.	720	20	4	12	L.S.	14	1	210	2060	65	85	4	4	16	8	4	4	16	8

LANDSCAPING ITEMS										
ITEM NUMBER	LANDSCAPING ITEMS									
	0944000	0949000	0949086	0949153	0949332	0949915	0950019A	0950040A	0950043A	0952051A
	FURNISHING AND PLACING TOPSOIL	WOOD CHIP MULCH	CLETHRA ALNIFOLIA SUMMERSWEET 2'-3' HT. B.B.	TIHUA PLOCATA WESTERN ARBORVITAE 8-8 HT. B.B.	ACER RUBRUM RED MAPLE 2"-2 1/2" CALL. B.B.	RHODODENDRON VISCOSUS SWAMP AZALEA 24-36 HT. B.B.	TURE ESTABLISHMENT - LAWN	CONSERVATION SEEDING FOR SLOPES	WETLAND GRASS ESTABLISHMENT	CONTROL AND REMOVAL OF INVASIVE VEGETATION
UNIT	S.Y.	S.Y.	E.A.	E.A.	E.A.	E.A.	S.Y.	S.Y.	S.Y.	S.Y.
BRIDGE 05501	1160	729	27	33	11	12	174	340	62	1427
SUBTOTAL	1160	729	27	33	11	12	174	340	62	1427
UNASSIGNED	116	73	-	-	-	-	18	34	7	143
TOTAL	1276	802	27	33	11	12	192	374	69	1570

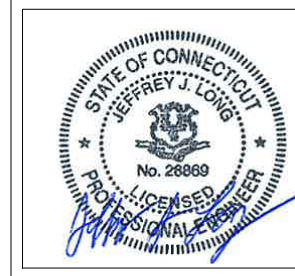
REV.	DATE	DESCRIPTION

SIGNATURE/BLOCK: MOTT MACDONALD
 175 CAPITAL BLVD
 4TH FLOOR
 ROCKY HILL, CT 06067

TOWN OF WILTON

REV. No.	SHEET No.	DATE mm/dd/yy	NEW	REV.	DEL.	DESCRIPTION	BY	REV. No.	SHEET No.	DATE mm/dd/yy	NEW	REV.	DEL.	DESCRIPTION	BY	REV. No.	SHEET No.	DATE mm/dd/yy	NEW	REV.	DEL.	DESCRIPTION	BY	

DESIGNED BY:
MOTT MACDONALD M M
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067




Jeffrey J. Long
2022.09.30
16:57:27-04'00'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
CHECKED BY:



**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**

SIGNATURE BLOCK:



Mott MacDonald
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067.

PROJECT TITLE:

TOWN:
DRAWING TITLE:

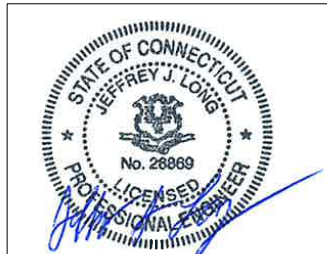
PROJECT NO.
DRAWING NO.
SHEET NO.
02.01

**03 - HIGHWAY
INDEX OF DRAWINGS**

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
HWY-01	HIGHWAY INDEX OF DRAWINGS		
HWY-02	TYPICAL SECTIONS - 01		
HWY-03	TYPICAL SECTIONS - 02		
HWY-04	ROADWAY PLAN		
HWY-05	ALIGNMENT AND LAYOUT PLAN		
HWY-06	ARROWHEAD ROAD PROFILE		
HWY-07	DRAINAGE AND GRADING PLAN		
HWY-08	ARROWHEAD ROAD CROSS SECTIONS - 01		
HWY-09	ARROWHEAD ROAD CROSS SECTIONS - 02		
HWY-10	ARROWHEAD ROAD CROSS SECTIONS - 03		
HWY-11	TEMPORARY ROADWAY PLAN		
HWY-12	TEMPORARY ROADWAY PROFILE		
HWY-13	TEMPORARY ALIGNMENT AND LAYOUT PLAN		
HWY-14	STEEL-BACKED TIMBER GUIDERAIL TYPE A LEADING ATTACHMENT AND SYSTEMS 2 AND 3		
HWY-15	STEEL-BACKED TIMBER GUIDERAIL TYPE A HARDWARE DETAILS		
HWY-16	STEEL-BACKED TIMBER GUIDERAIL - TERMINAL SECTION		
HWY-17	ENDWALL DETAILS		

REV.	DATE	REVISION DESCRIPTION


DESIGNED BY:
MOTT MACDONALD M M
 175 Capital Blvd
 4th Floor
 Rocky Hill, CT 06067



Jeffrey J. Long
 2022.09.30
 16:56:39-04'00"

FDP SUBMISSION
 SEPTEMBER 28, 2022

DESIGNER/DRAFTER: D.T.K. CHECKED BY: M.D.G.

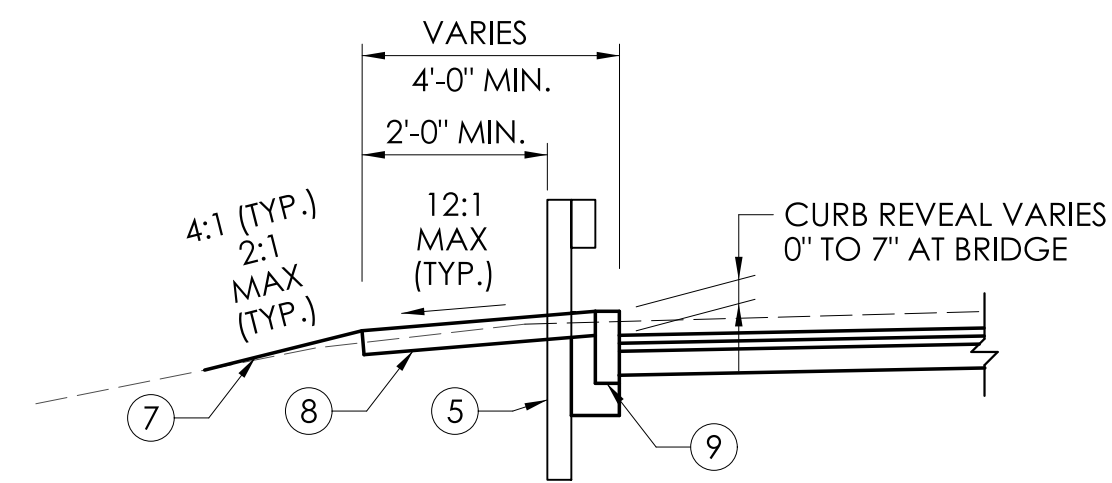
SIGNATURE/BLOCK:

 Mott MacDonald
 175 Capital Blvd
 4th Floor
 Rocky Hill, CT 06067.

M M
MOTT MACDONALD
 175 CAPITAL BLVD
 4TH FLOOR
 ROCKY HILL, CT 06067

 **TOWN OF WILTON** 

PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: HIGHWAY INDEX OF DRAWINGS

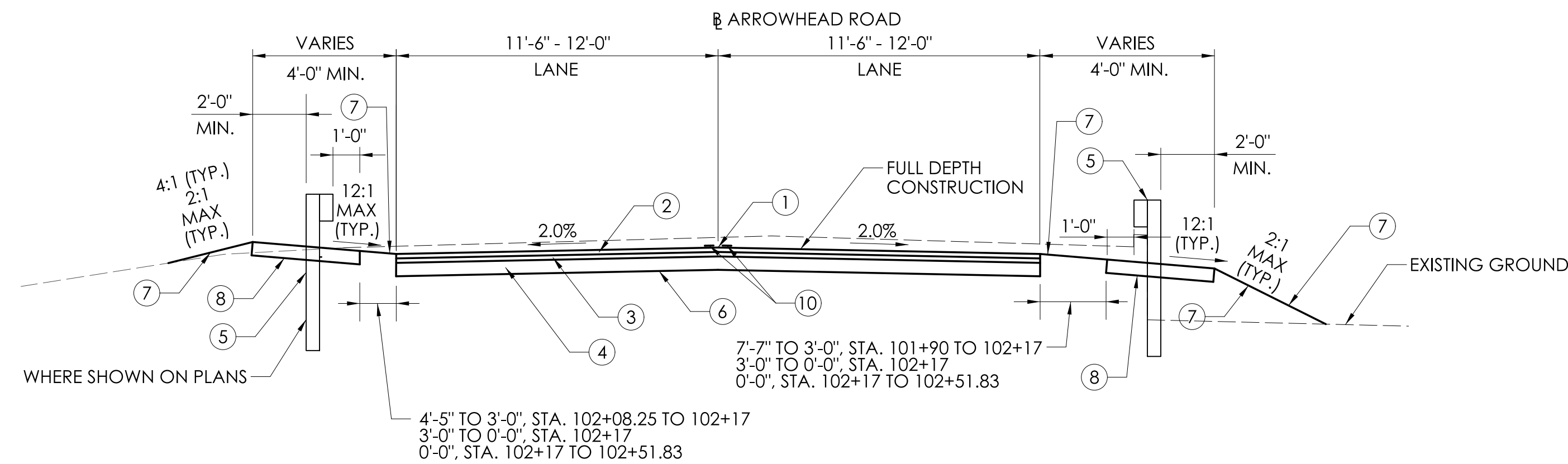
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 HWY-01
 SHEET NO.
 03.01



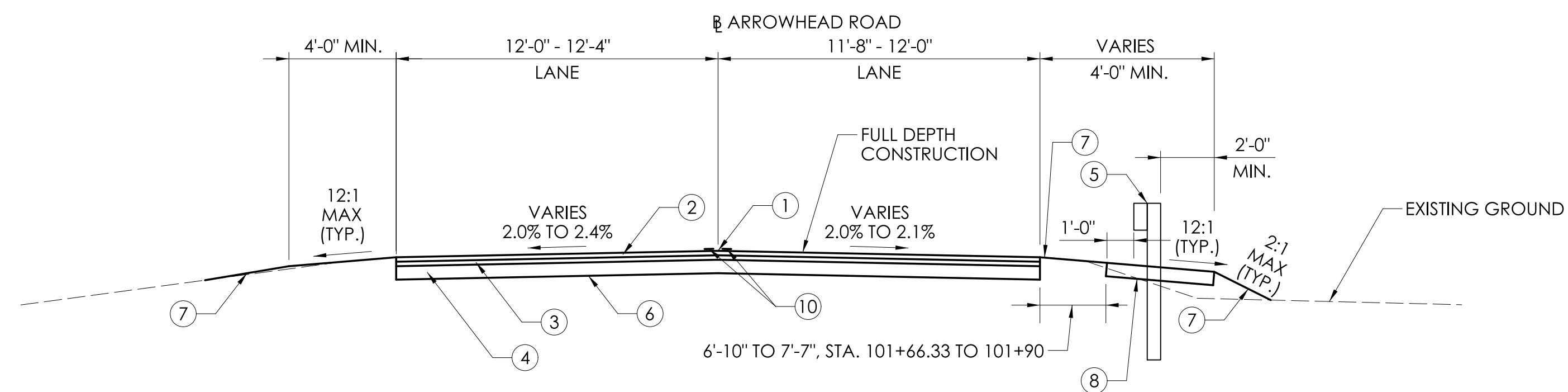
PROPOSED ROADWAY SECTION WITH GRANITE STONE TRANSITION CURB AT BRIDGE
STA 102+40.33 TO 102+60.33 LEFT AND RIGHT
STA 103+28.33 TO 103+48.33 LEFT AND RIGHT

LEGEND:

- ① POINT OF APPLICATION OF GRADE
- ② 2" HMA S0.375 (TRAFFIC LEVEL 2)
- ③ 2" HMA S0.5 (TRAFFIC LEVEL 2)
- ④ 6" PROCESSED AGGREGATE BASE
- ⑤ STEEL-BACKED TIMBER GUIDERAIL
- ⑥ FORMATION OF SUBGRADE
- ⑦ 4" FURNISHING AND PLACING TOPSOIL, TURF ESTABLISHMENT
- ⑧ 6" PROCESSED AGGREGATE
- ⑨ GRANITE STONE TRANSITION CURBING
- ⑩ 4" YELLOW EPOXY RESIN PAVEMENT MARKINGS

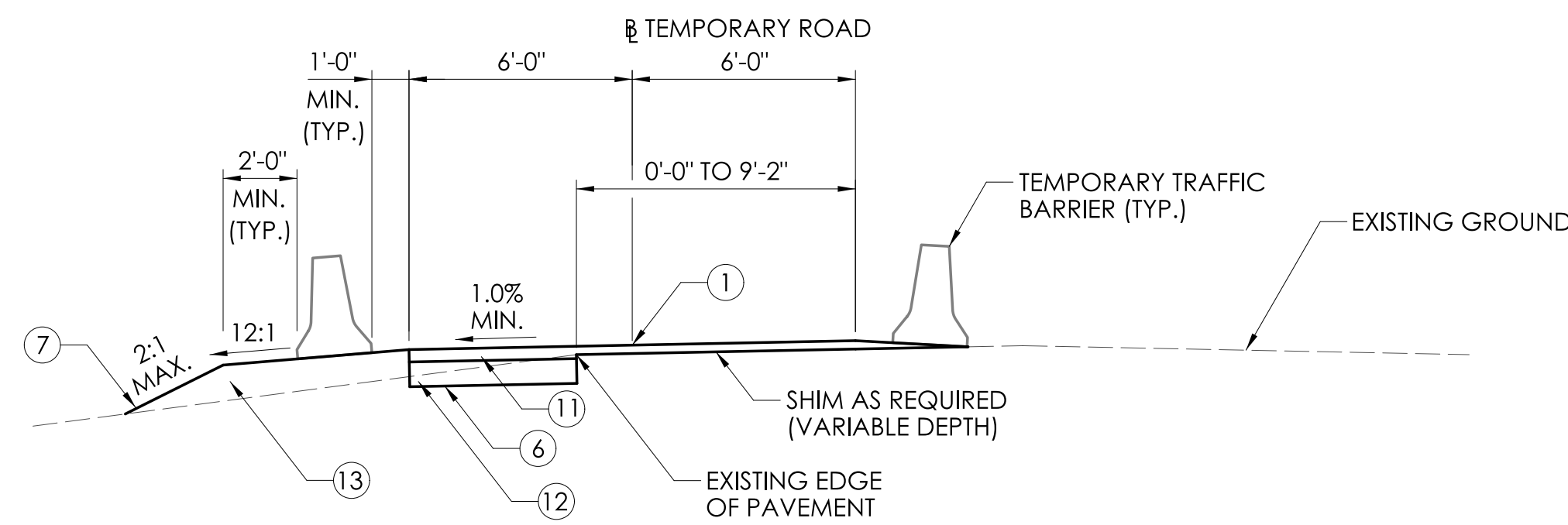


PROPOSED ROADWAY SECTION
STA 101+90 TO STA 102+51.83

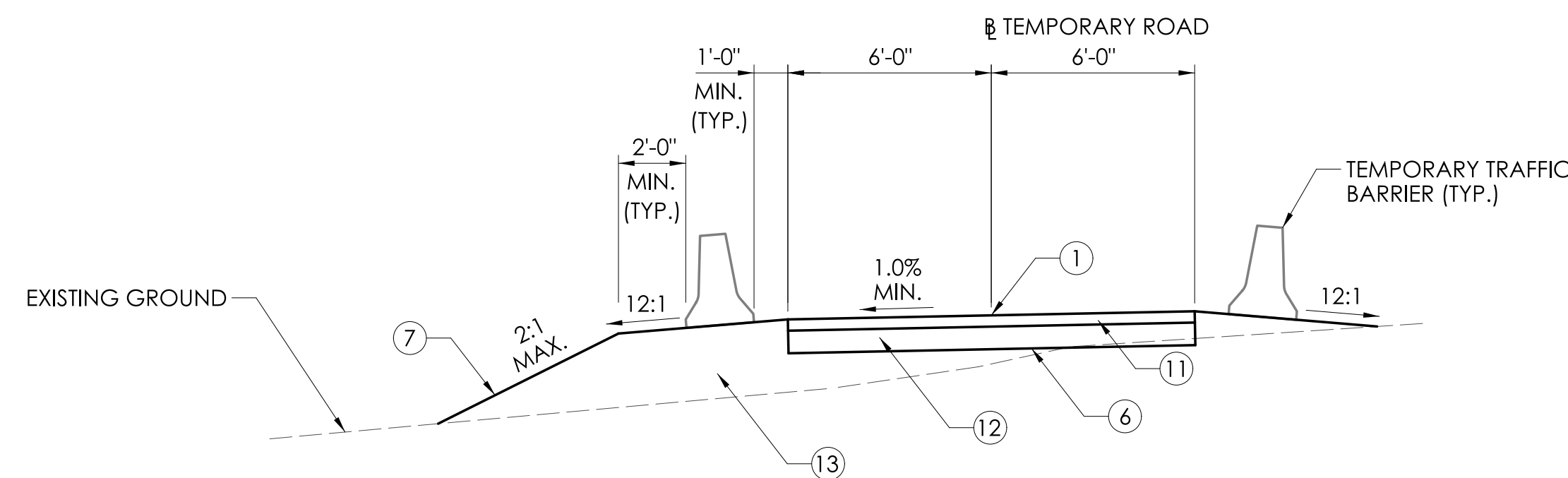


PROPOSED ROADWAY SECTION
STA 101+50 TO STA 101+90
 CROSS SLOPE VARIES/TAPER TO MATCH EXISTING

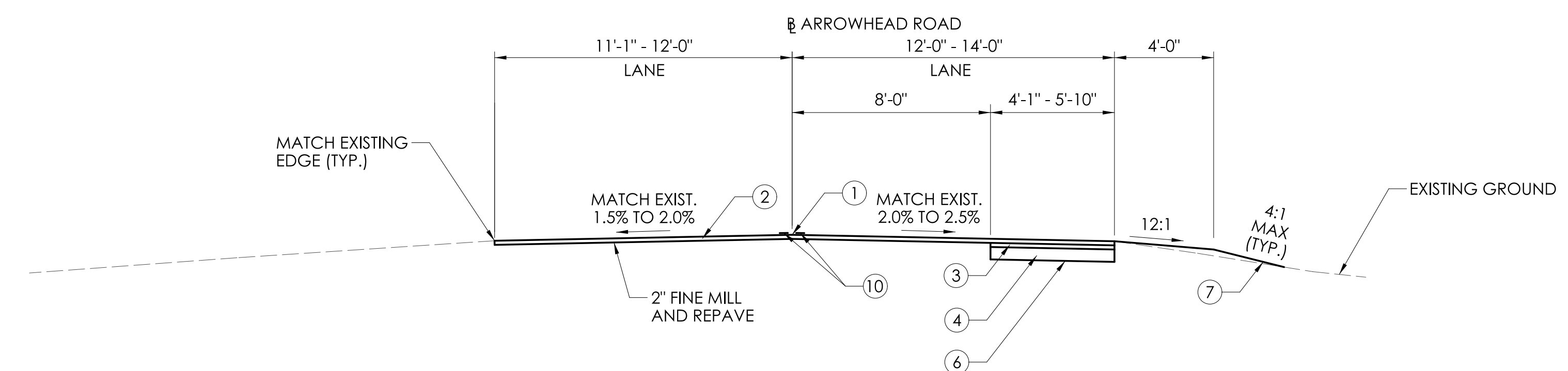
REV.	DATE	REVISION DESCRIPTION



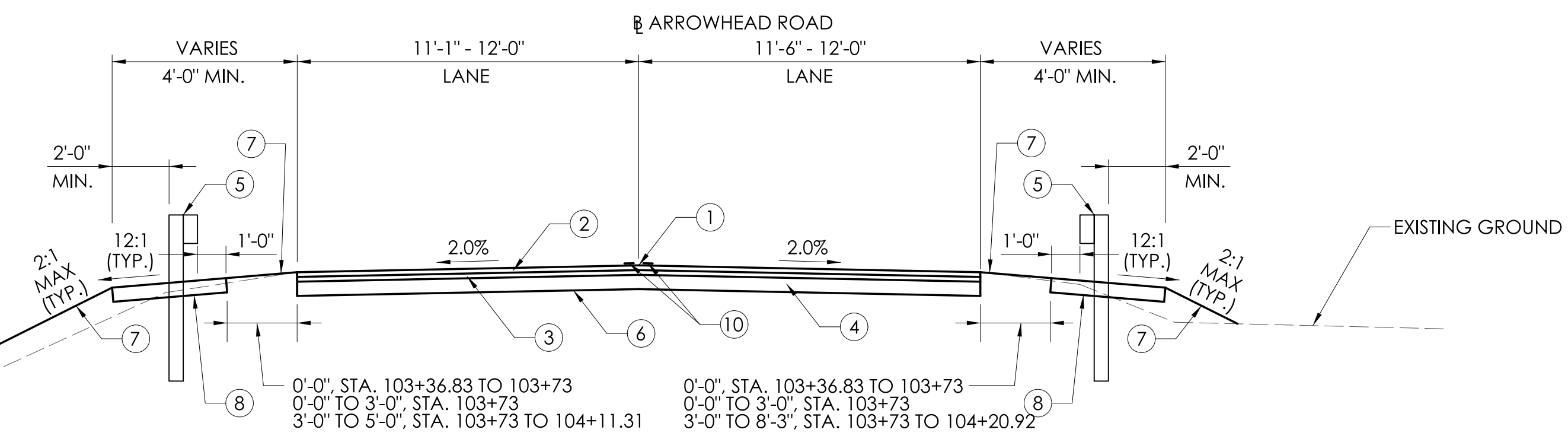
**TEMPORARY ROADWAY SECTION
STA 202+69.41 TO STA 202+82**



**TEMPORARY ROADWAY SECTION
STA 200+45 TO STA 201+02.85
STA 201+92.85 TO 202+69.41**



**PROPOSED ROADWAY SECTION
STA 104+80 TO STA 105+20**



**PROPOSED ROADWAY SECTION
STA 103+36.83 TO STA 104+80**

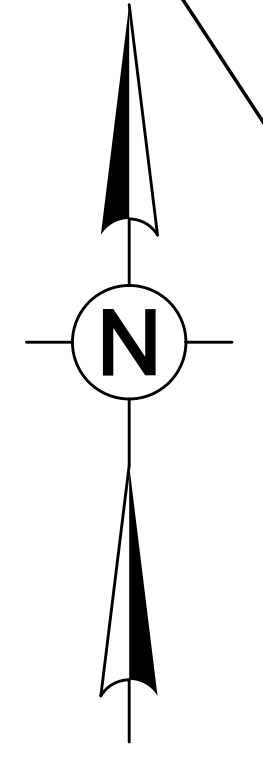
- LEGEND:**
- ① POINT OF APPLICATION OF GRADE
 - ② 2" HMA S0.375 (TRAFFIC LEVEL 2)
 - ③ 2" HMA S0.5 (TRAFFIC LEVEL 2)
 - ④ 6" PROCESSED AGGREGATE BASE
 - ⑤ STEEL-BACKED TIMBER GUIDERAIL
 - ⑥ FORMATION OF SUBGRADE
 - ⑦ 4" FURNISHING AND PLACING TOPSOIL, TURF ESTABLISHMENT
 - ⑧ 6" PROCESSED AGGREGATE
 - ⑨ GRANITE STONE TRANSITION CURBING
 - ⑩ 4" YELLOW EPOXY RESIN PAVEMENT MARKINGS
 - ⑪ 3" TEMPORARY PAVEMENT HMA S0.5 (TRAFFIC LEVEL 2)
 - ⑫ 8" SUBBASE
 - ⑬ BORROW

REV.	DATE	REVISION DESCRIPTION

**BEGIN STATE PROJECT NO 161-143
CUT BITUMINOUS CONCRETE PAVEMENT
BEGIN FULL DEPTH RECONSTRUCTION
BEGIN PAVEMENT MARKINGS
MEET EXISTING PAVEMENT
STA. 101+50.00**

LEGEND

- STATE/FEDERAL WETLANDS LIMIT
- SEDIMENTATION CONTROL SYSTEM (SCS)
- OHW --- ORDINARY HIGH WATER (OHW)
- ⊗ PROPOSED BOULDER CLUSTER
- A** TEMPORARY CONSTRUCTION EASEMENT REQUIRED
- B** EASEMENT TO SLOPE FOR THE SUPPORT/SAFETY OF THE HIGHWAY REQUIRED
- C** DRAINAGE RIGHT OF WAY REQUIRED
- D** PARTIAL TAKE REQUIRED
- ▨ MILL 2" OF EXISTING BITUMINOUS AND PLACE 2" HMA S0.375 (TRAFFIC LEVEL 2)
- ▨ 6" PROCESSED AGGREGATE



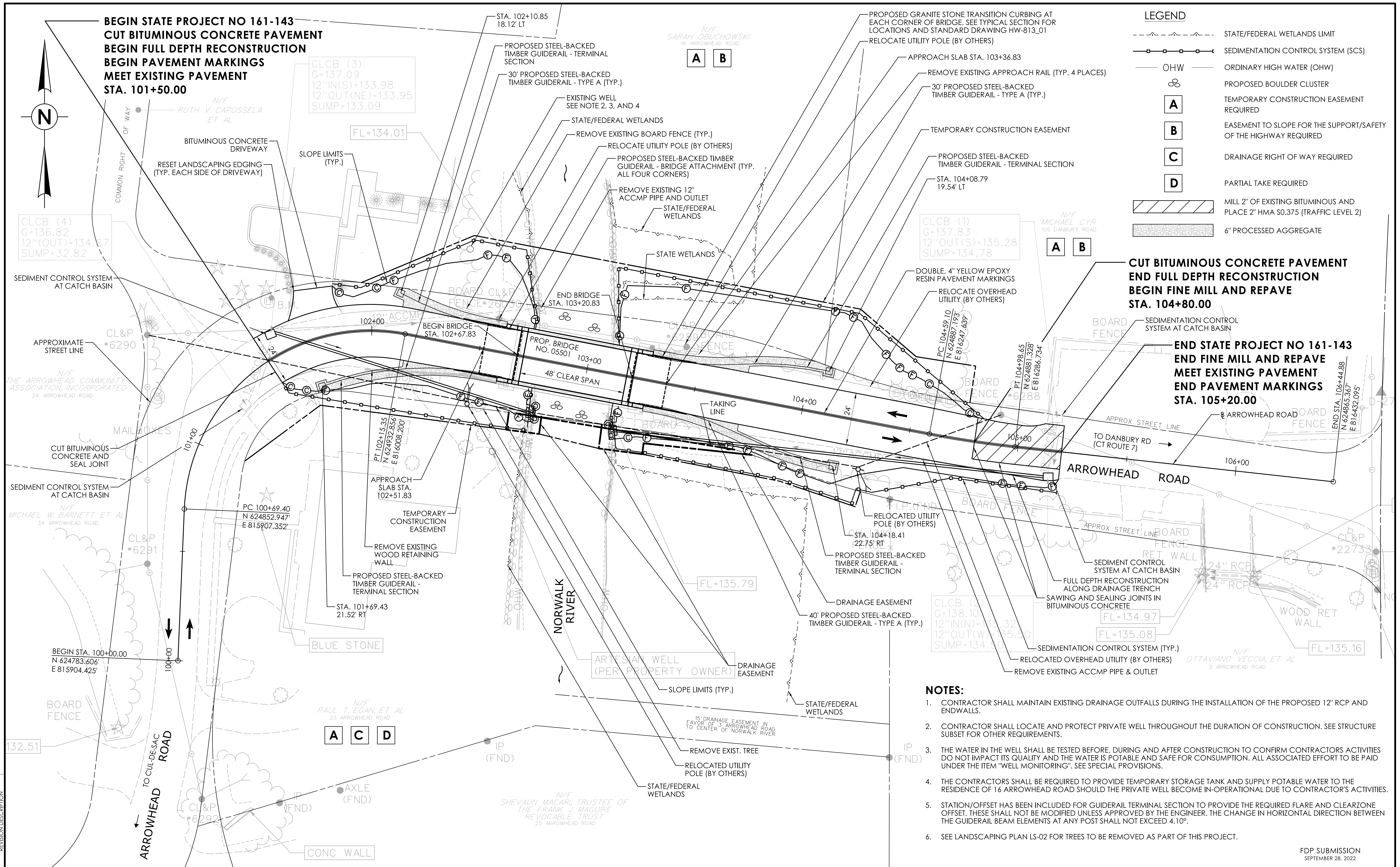
CLCB (4)
G=136.82
12"(OUT)=134.67
SUMP=32.82

CLCB (3)
G=137.09
12"IN(S)=133.98
12"OUT(NE)=133.95
SUMP=133.09

CLCB (1)
G=137.83
12"OUT(S)=135.28
SUMP=134.78

**CUT BITUMINOUS CONCRETE PAVEMENT
END FULL DEPTH RECONSTRUCTION
BEGIN FINE MILL AND REPAVE
STA. 104+80.00**

**END STATE PROJECT NO 161-143
END FINE MILL AND REPAVE
MEET EXISTING PAVEMENT
END PAVEMENT MARKINGS
STA. 105+20.00**

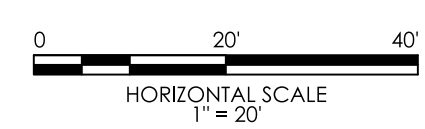


NOTES:

1. CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE OUTFALLS DURING THE INSTALLATION OF THE PROPOSED 12" RCP AND ENDWALLS.
2. CONTRACTOR SHALL LOCATE AND PROTECT PRIVATE WELL THROUGHOUT THE DURATION OF CONSTRUCTION. SEE STRUCTURE SUBSET FOR OTHER REQUIREMENTS.
3. THE WATER IN THE WELL SHALL BE TESTED BEFORE, DURING AND AFTER CONSTRUCTION TO CONFIRM CONTRACTORS ACTIVITIES DO NOT IMPACT ITS QUALITY AND THE WATER IS POTABLE AND SAFE FOR CONSUMPTION. ALL ASSOCIATED EFFORT TO BE PAID UNDER THE ITEM "WELL MONITORING". SEE SPECIAL PROVISIONS.
4. THE CONTRACTORS SHALL BE REQUIRED TO PROVIDE TEMPORARY STORAGE TANK AND SUPPLY POTABLE WATER TO THE RESIDENCE OF 16 ARROWHEAD ROAD SHOULD THE PRIVATE WELL BECOME IN-OPERATIONAL DUE TO CONTRACTOR'S ACTIVITIES.
5. STATION/OFFSET HAS BEEN INCLUDED FOR GUIDERAIL TERMINAL SECTION TO PROVIDE THE REQUIRED FLARE AND CLEARZONE OFFSET. THESE SHALL NOT BE MODIFIED UNLESS APPROVED BY THE ENGINEER. THE CHANGE IN HORIZONTAL DIRECTION BETWEEN THE GUIDERAIL BEAM ELEMENTS AT ANY POST SHALL NOT EXCEED 4.10'.
6. SEE LANDSCAPING PLAN LS-02 FOR TREES TO BE REMOVED AS PART OF THIS PROJECT.

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: D.T.K. CHECKED BY: M.D.G.
 LASTED SAVED BY: KIN8393 FILE NAME: c:\pwworking\hmm\kin8393\d0137936\HW_CB_Wilton_RWplan.dgn
 PLOTTED DATE: 9/29/2022



SIGNATURE/BLOCK:

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 175 Capital Blvd
 4th Floor
 Rocky Hill, CT 06067

M M
MOTT MACDONALD
 175 CAPITAL BLVD
 4TH FLOOR
 ROCKY HILL, CT 06067

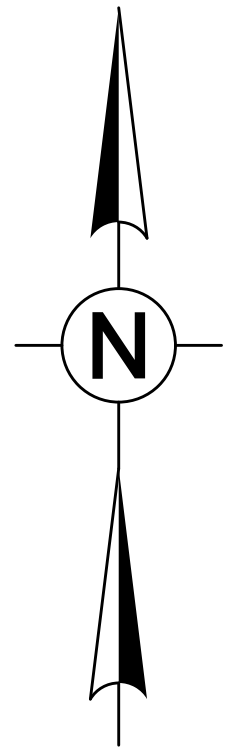
TOWN OF WILTON

PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: ROADWAY PLAN

FDP SUBMISSION
 SEPTEMBER 28, 2022

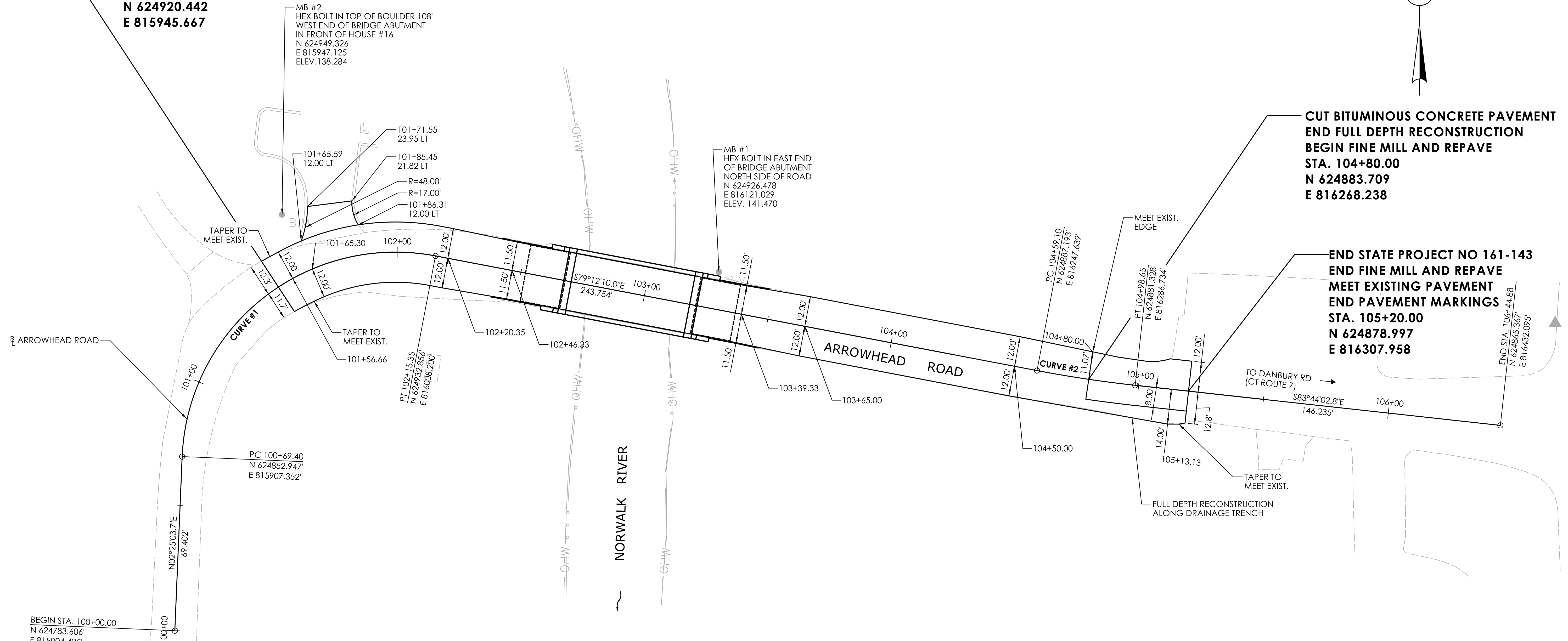
DRAWING NO.
 HWY-04
 SHEET NO.
 03.04

**BEGIN STATE PROJECT NO 161-143
CUT BITUMINOUS CONCRETE PAVEMENT
BEGIN FULL DEPTH RECONSTRUCTION
MEET EXISTING PAVEMENT
STA. 101+50.00
N 624920.442
E 815945.667**



**CUT BITUMINOUS CONCRETE PAVEMENT
END FULL DEPTH RECONSTRUCTION
BEGIN FINE MILL AND REPAVE
STA. 104+80.00
N 624883.709
E 816268.238**

**END STATE PROJECT NO 161-143
END FINE MILL AND REPAVE
MEET EXISTING PAVEMENT
END PAVEMENT MARKINGS
STA. 105+20.00
N 624878.997
E 816307.958**



BEGIN STA. 100+00.00
N 624783.606'
E 815904.425'

PC 100+69.40
N 624852.947'
E 815907.352'

PT 102+15.35
N 624932.856'
E 816008.200'

MB #1
HEX BOLT IN EAST END
OF BRIDGE ABUTMENT
NORTH SIDE OF ROAD
N 624926.478
E 816121.029
ELEV. 141.470

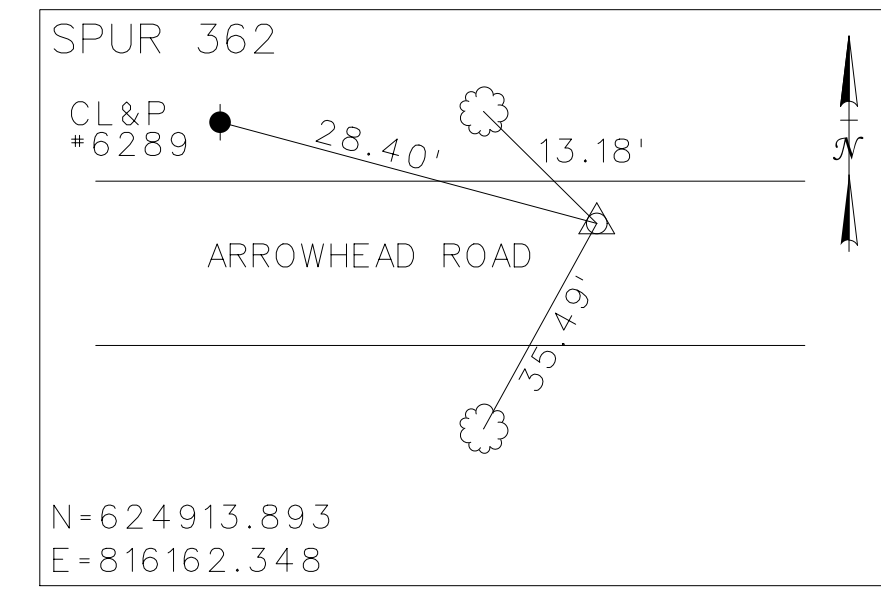
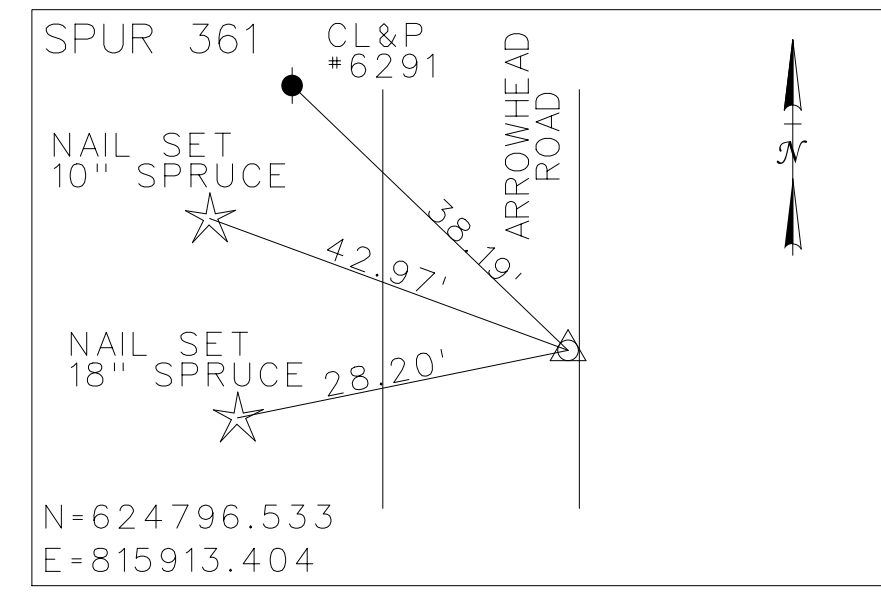
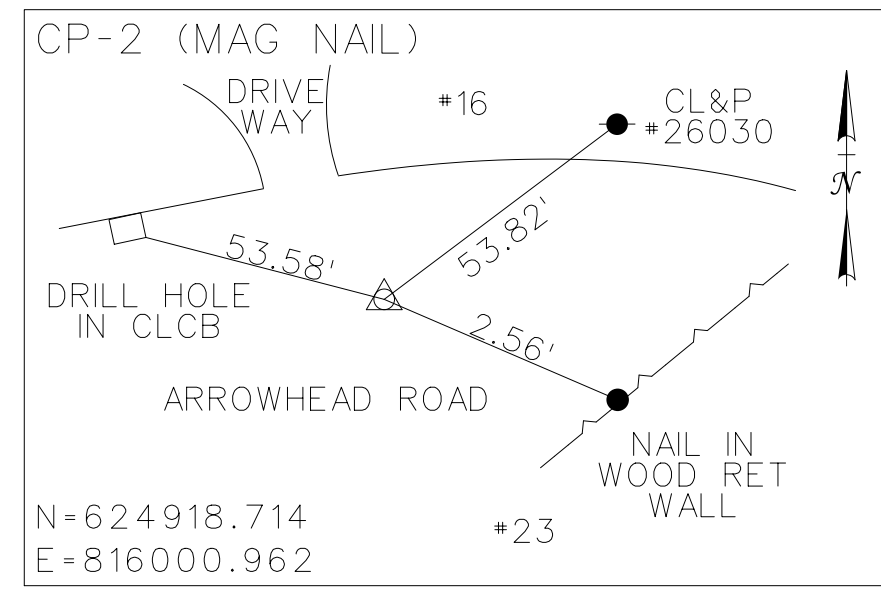
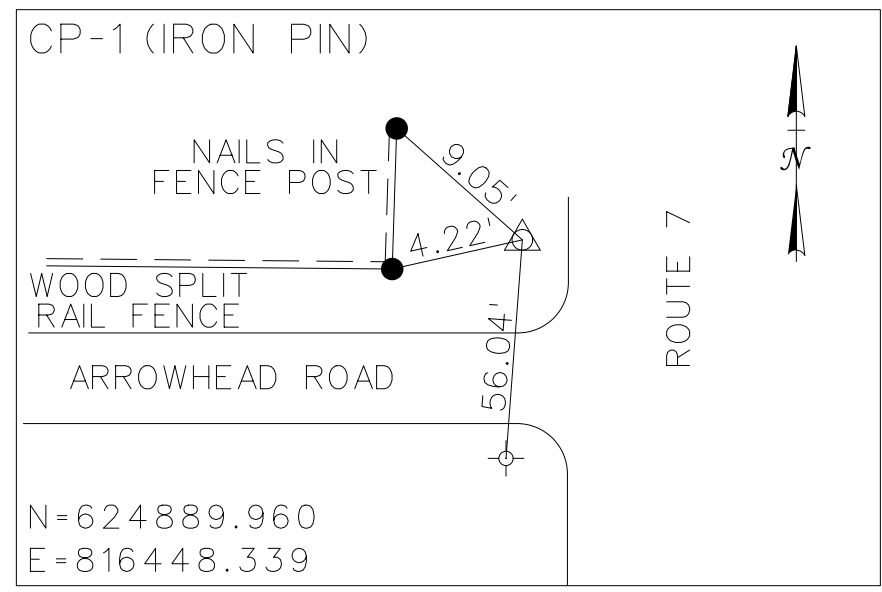
MB #2
HEX BOLT IN TOP OF BOULDER 108'
WEST END OF BRIDGE ABUTMENT
IN FRONT OF HOUSE #16
N 624949.326
E 815947.125
ELEV. 138.284

PC 104+59.10
N 624887.193'
E 816247.639'

PT 104+98.65
N 624881.328'
E 816286.734'

END STA. 106+44.88
N 624865.367'
E 816432.095'

TO DANBURY RD
(CT ROUTE 7)
S83°44'02.8"E
146.235'



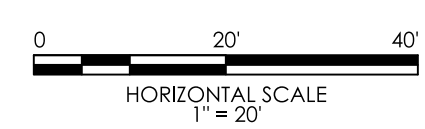
**CURVE DATA
ARROWHEAD ROAD**

CURVE #1	CURVE #2
DELTA 98°22'46.3"	DELTA 04°31'52.7"
T 98.438'	T 19.782'
L 145.949'	L 39.543'
R 85.000'	R 500.000'
PI N 624951.2968	PI N 624883.4869
PI E 815911.5048	PI E 816267.0703
PI STA 101+67.84	PI STA 104+78.89

FDP SUBMISSION
SEPTEMBER 28, 2022

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.A.B. CHECKED BY: M.D.G.



SIGNATURE/BLOCK: Mott MacDonald
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067.

M M
MOTT
MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067



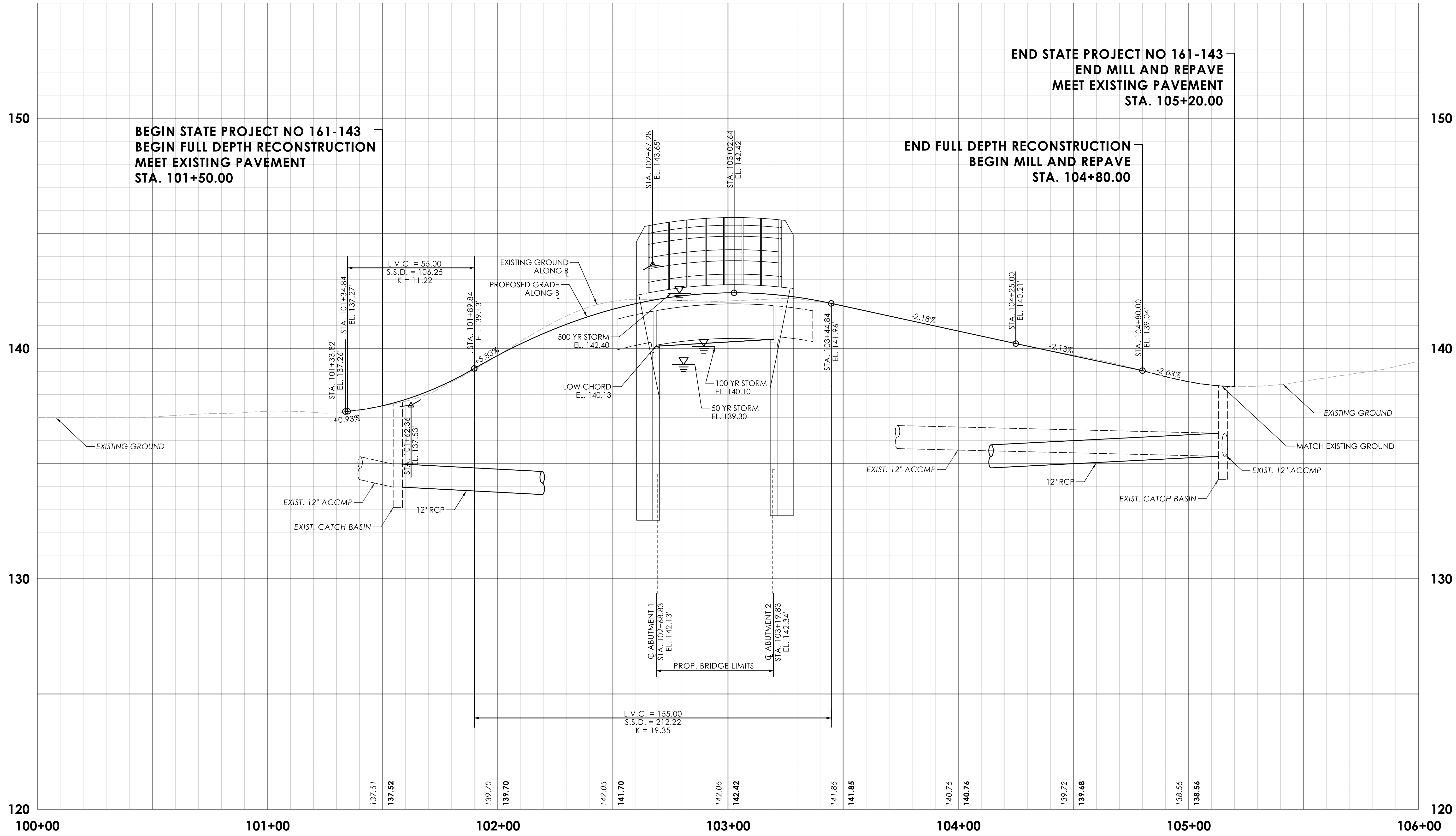
PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: ALIGNMENT AND LAYOUT PLAN

DRAWING NO.
HWY-05
SHEET NO.
03.05

END STATE PROJECT NO 161-143
 END MILL AND REPAVE
 MEET EXISTING PAVEMENT
 STA. 105+20.00

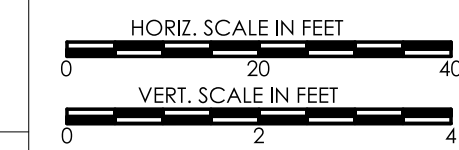
BEGIN STATE PROJECT NO 161-143
 BEGIN FULL DEPTH RECONSTRUCTION
 MEET EXISTING PAVEMENT
 STA. 101+50.00

END FULL DEPTH RECONSTRUCTION
 BEGIN MILL AND REPAVE
 STA. 104+80.00



REV.	DATE	REVISION DESCRIPTION

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TOWN OF WILTON

PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: ARROWHEAD ROAD PROFILE

FDP SUBMISSION
 SEPTEMBER 28, 2022

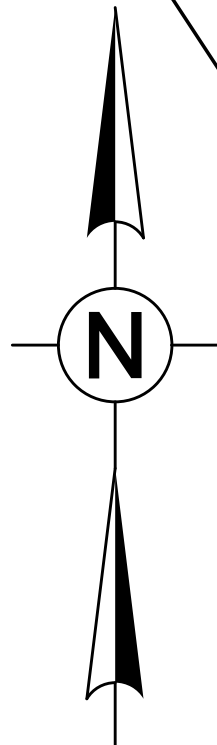
DRAWING NO.
 HWY-06
 SHEET NO.
 03.06

**BEGIN STATE PROJECT NO 161-143
CUT BITUMINOUS CONCRETE PAVEMENT
BEGIN FULL DEPTH RECONSTRUCTION
MEET EXISTING PAVEMENT
STA. 101+50.00**

N/F
SARAH OBUCHOWSKI
16 ARROWHEAD ROAD

LEGEND

- STATE/FEDERAL WETLANDS LIMIT
- SEDIMENTATION CONTROL SYSTEM (SCS)
- OHW — ORDINARY HIGH WATER (OHW)
- PROPOSED BOULDER CLUSTER
- MILL 2" OF EXISTING BITUMINOUS AND PLACE 2" HMA S0.375 (TRAFFIC LEVEL 2)
- PROPOSED CUT SLOPE
- PROPOSED FILL SLOPE



CLCB (4)
G=136.82
12" (OUT)=134.67
SUMP=32.82

SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN
RESET FRAME AND GRATE FOR CATCH BASIN
TOP EL. 137.09
BOT EL. 133.09
FL EL. 133.98 (S)
FL EL. 133.95 (NE)

CLCB (3)
G=137.09
12" IN(S)=133.98
12" OUT (NE)=133.95
SUMP=133.09

REMOVE EXISTING 12" ACCMP PIPE AND OUTLET
EXISTING WELL
STATE/FEDERAL WETLANDS

BEGIN BRIDGE STA. 102+67.83

END BRIDGE STA. 103+20.86

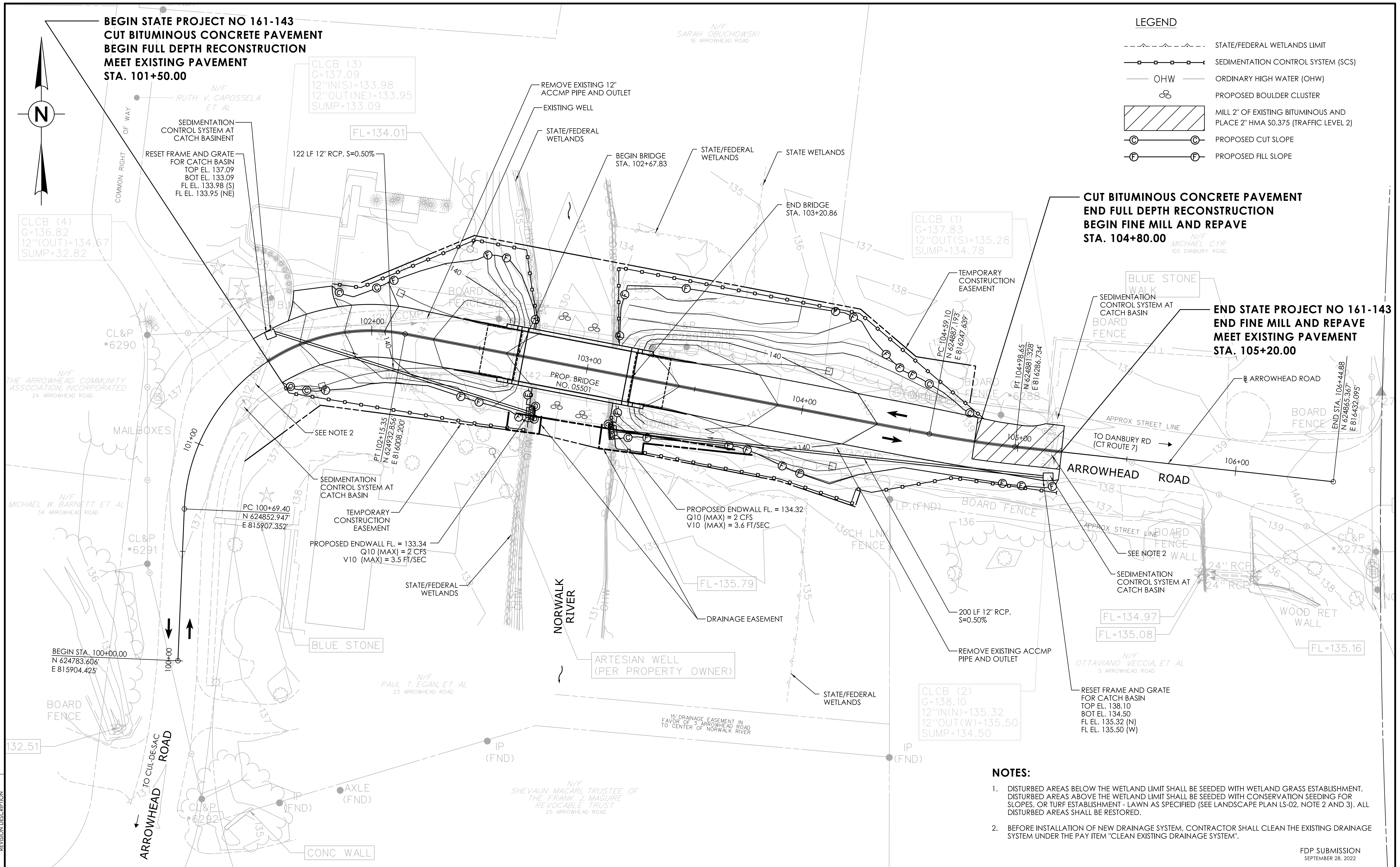
CLCB (1)
G=137.83
12" OUT(S)=135.28
SUMP=134.78

**CUT BITUMINOUS CONCRETE PAVEMENT
END FULL DEPTH RECONSTRUCTION
BEGIN FINE MILL AND REPAVE
STA. 104+80.00**

N/F
MICHAEL CYR
105 DANBURY ROAD

**END STATE PROJECT NO 161-143
END FINE MILL AND REPAVE
MEET EXISTING PAVEMENT
STA. 105+20.00**

END STA. 106+44.88
N 624865.367
E 816432.095



NOTES:

1. DISTURBED AREAS BELOW THE WETLAND LIMIT SHALL BE SEEDED WITH WETLAND GRASS ESTABLISHMENT. DISTURBED AREAS ABOVE THE WETLAND LIMIT SHALL BE SEEDED WITH CONSERVATION SEEDING FOR SLOPES, OR TURF ESTABLISHMENT - LAWN AS SPECIFIED (SEE LANDSCAPE PLAN LS-02, NOTE 2 AND 3). ALL DISTURBED AREAS SHALL BE RESTORED.
2. BEFORE INSTALLATION OF NEW DRAINAGE SYSTEM, CONTRACTOR SHALL CLEAN THE EXISTING DRAINAGE SYSTEM UNDER THE PAY ITEM "CLEAN EXISTING DRAINAGE SYSTEM".

FDP SUBMISSION
SEPTEMBER 28, 2022

REV.	DATE	REVISION DESCRIPTION

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PLOTTED DATE: 9/29/2022

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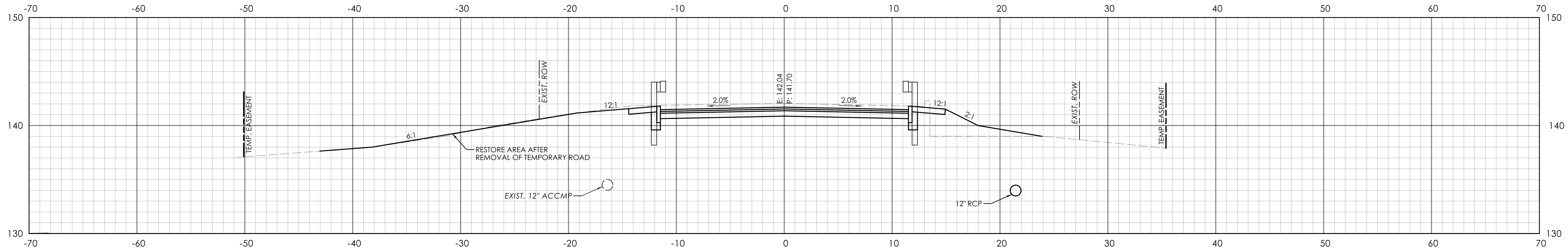
Mott MacDonald
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067

M M
MOTT MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

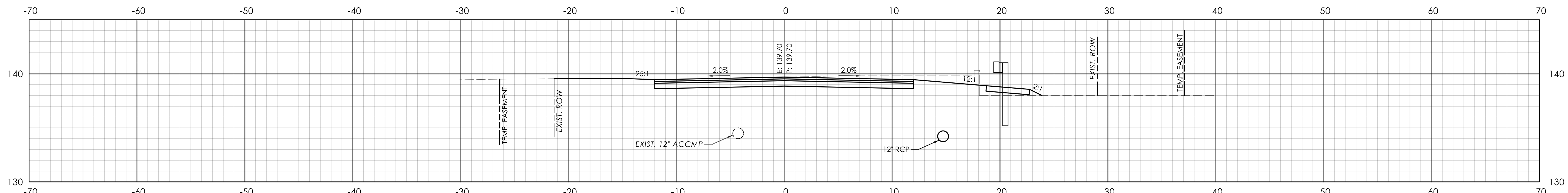
TOWN OF WILTON

PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: DRAINAGE AND GRADING PLAN

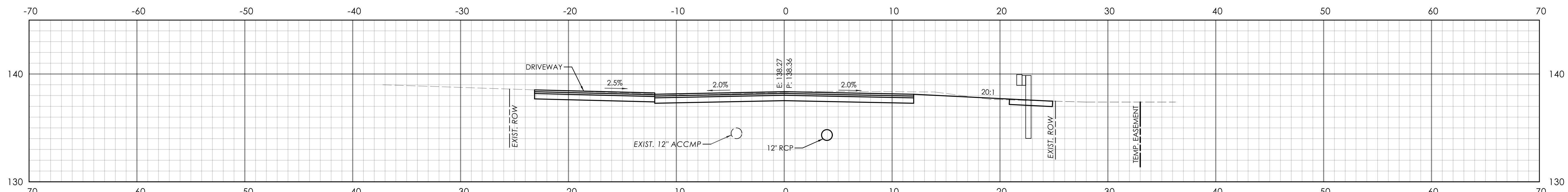
DRAWING NO.
HWY-07
SHEET NO.
03.07



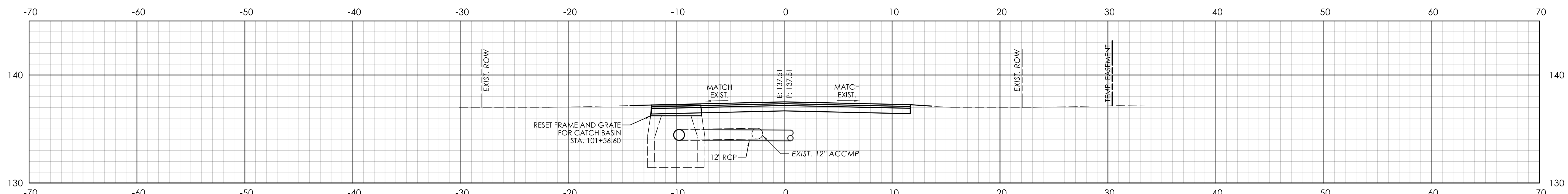
STA. 102+50



STA. 102+00



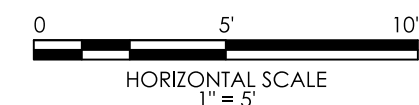
STA. 101+75



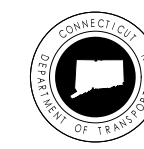
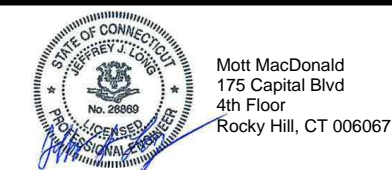
STA. 101+50

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.A.B. CHECKED BY: M.D.G.
 LASTED SAVED BY: KIN8393 FILE NAME: c:\pwworking\hmm\kin8393\d0137936\HW_XX_CB_Wilton_RWXsec_01.dgn
 PLOTTED DATE: 9/29/2022



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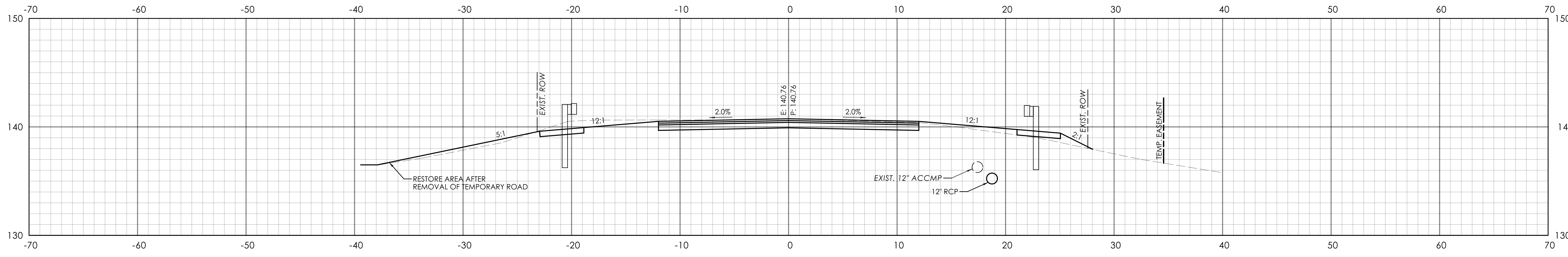
TOWN
OF
WILTON



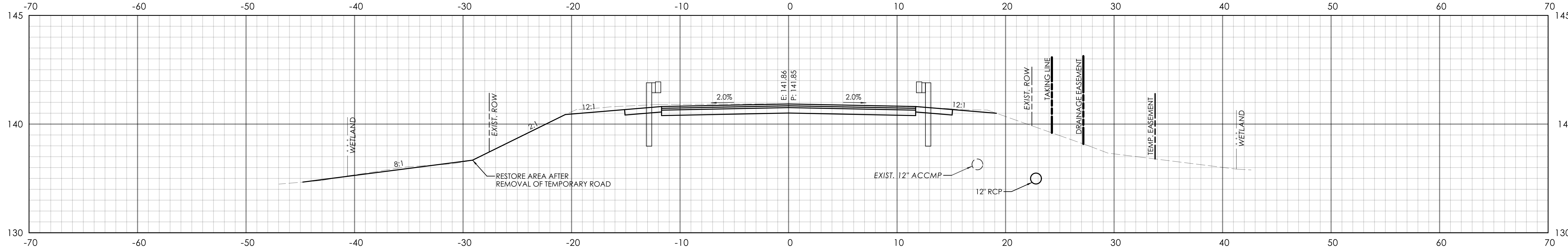
PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: ARROWHEAD ROAD CROSS SECTIONS - 01

FDP SUBMISSION
SEPTEMBER 28, 2022

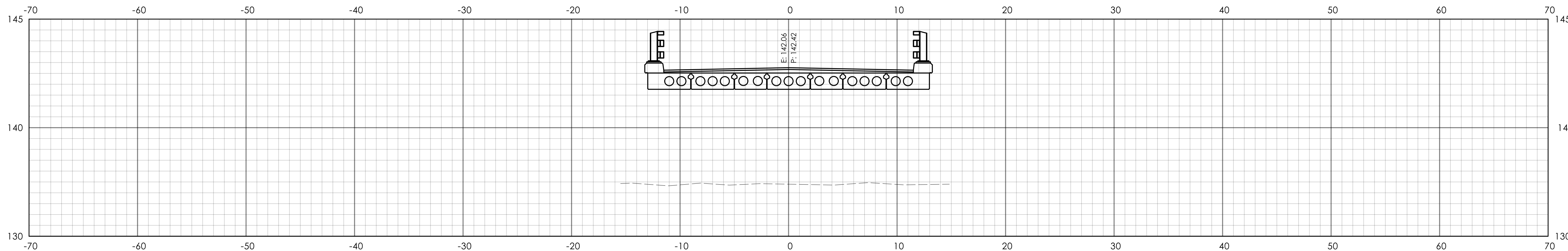
DRAWING NO.
HWY-08
SHEET NO.
03.08



STA. 104+00



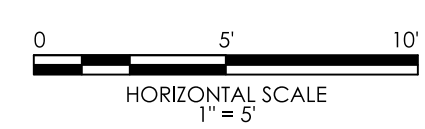
STA. 103+50




STA. 103+00

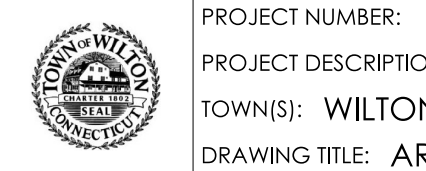
REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.A.B. CHECKED BY: M.D.G.
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 Rocky Hill, CT 06067

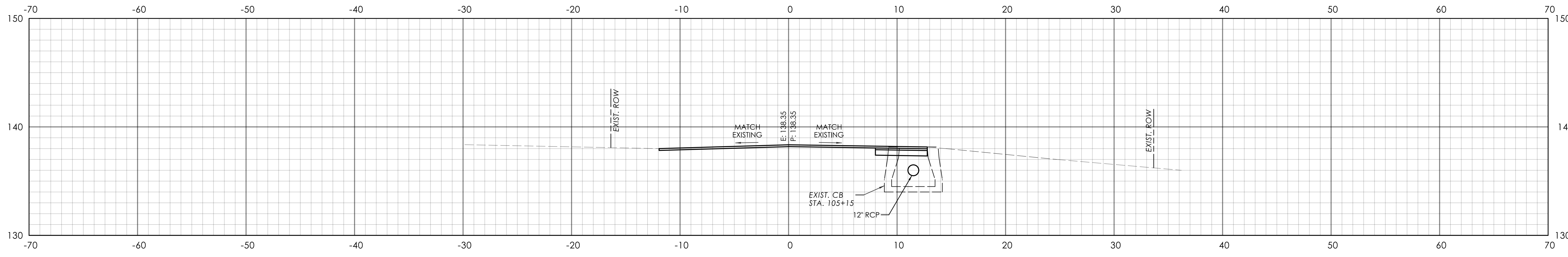
M M
MOTT MACDONALD
 175 CAPITAL BLVD
 4TH FLOOR
 ROCKY HILL, CT 06067



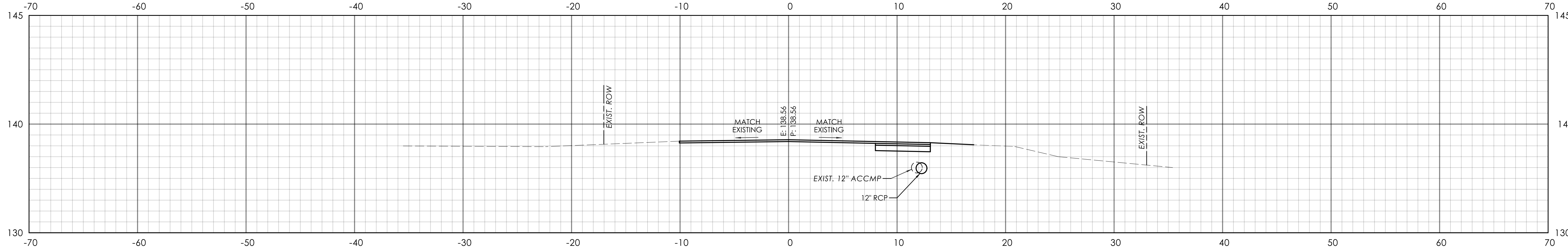
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 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: ARROWHEAD ROAD CROSS SECTIONS - 02

FDP SUBMISSION
 SEPTEMBER 28, 2022

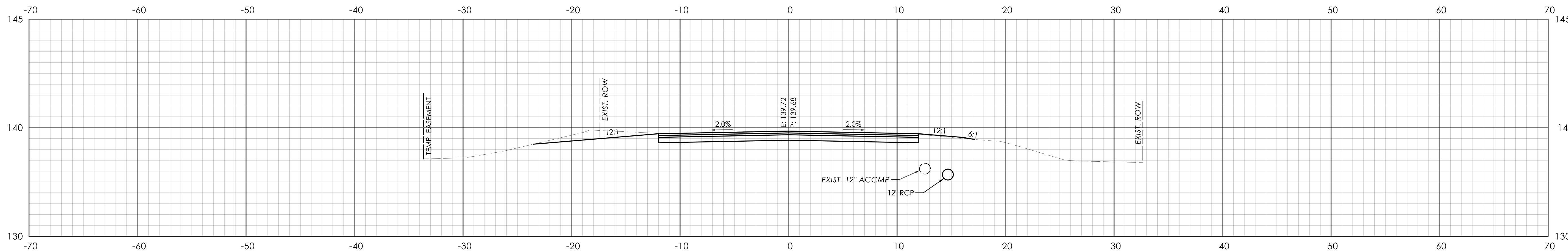
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 SHEET NO.
 03.09



STA. 105+20



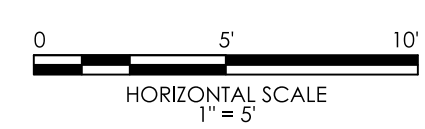
STA. 105+00




STA. 104+50

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.A.B. CHECKED BY: M.D.G.



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175 Capital Blvd
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Rocky Hill, CT 06067.

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175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

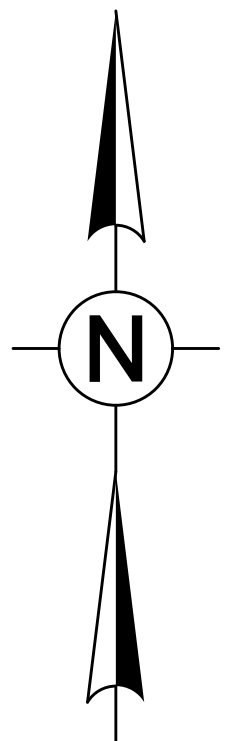
 **TOWN OF WILTON**



PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: ARROWHEAD ROAD CROSS SECTIONS - 03

FDP SUBMISSION
SEPTEMBER 28, 2022

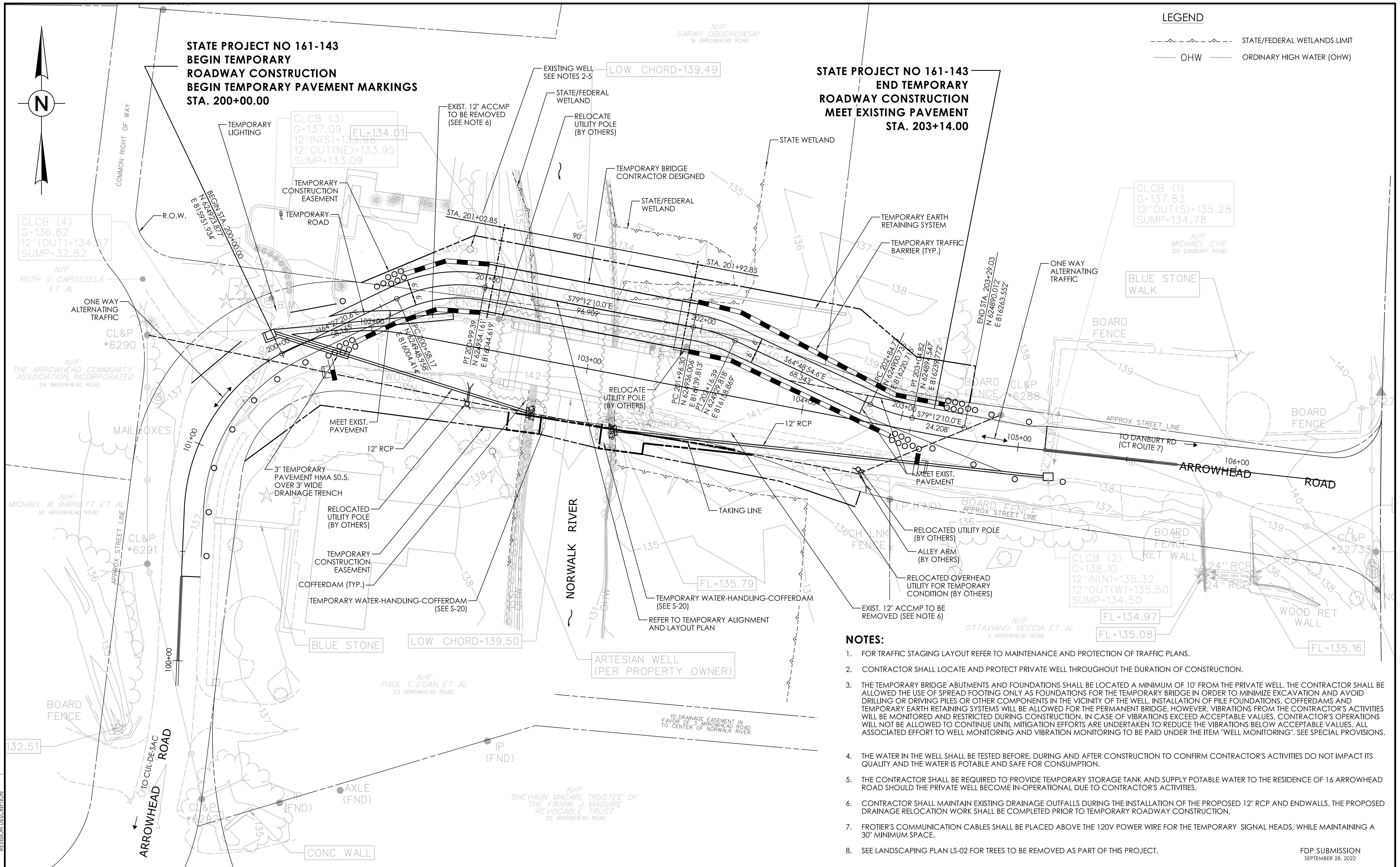
DRAWING NO. HWY-10
SHEET NO. 03.10



**STATE PROJECT NO 161-143
BEGIN TEMPORARY
ROADWAY CONSTRUCTION
BEGIN TEMPORARY PAVEMENT MARKINGS
STA. 200+00.00**

**STATE PROJECT NO 161-143
END TEMPORARY
ROADWAY CONSTRUCTION
MEET EXISTING PAVEMENT
STA. 203+14.00**

LEGEND
 - - - - - STATE/FEDERAL WETLANDS LIMIT
 ——— OHW ——— ORDINARY HIGH WATER (OHW)

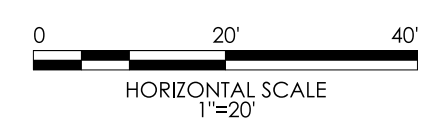


NOTES:

- FOR TRAFFIC STAGING LAYOUT REFER TO MAINTENANCE AND PROTECTION OF TRAFFIC PLANS.
- CONTRACTOR SHALL LOCATE AND PROTECT PRIVATE WELL THROUGHOUT THE DURATION OF CONSTRUCTION.
- THE TEMPORARY BRIDGE ABUTMENTS AND FOUNDATIONS SHALL BE LOCATED A MINIMUM OF 10' FROM THE PRIVATE WELL. THE CONTRACTOR SHALL BE ALLOWED THE USE OF SPREAD FOOTING ONLY AS FOUNDATIONS FOR THE TEMPORARY BRIDGE IN ORDER TO MINIMIZE EXCAVATION AND AVOID DRILLING OR DRIVING PILES OR OTHER COMPONENTS IN THE VICINITY OF THE WELL. INSTALLATION OF PILE FOUNDATIONS, COFFERDAMS AND TEMPORARY EARTH RETAINING SYSTEMS WILL BE ALLOWED FOR THE PERMANENT BRIDGE. HOWEVER, VIBRATIONS FROM THE CONTRACTOR'S ACTIVITIES WILL BE MONITORED AND RESTRICTED DURING CONSTRUCTION. IN CASE OF VIBRATIONS EXCEED ACCEPTABLE VALUES, CONTRACTOR'S OPERATIONS WILL NOT BE ALLOWED TO CONTINUE UNTIL MITIGATION EFFORTS ARE UNDERTAKEN TO REDUCE THE VIBRATIONS BELOW ACCEPTABLE VALUES. ALL ASSOCIATED EFFORT TO WELL MONITORING AND VIBRATION MONITORING TO BE PAID UNDER THE ITEM "WELL MONITORING". SEE SPECIAL PROVISIONS.
- THE WATER IN THE WELL SHALL BE TESTED BEFORE, DURING AND AFTER CONSTRUCTION TO CONFIRM CONTRACTOR'S ACTIVITIES DO NOT IMPACT ITS QUALITY AND THE WATER IS POTABLE AND SAFE FOR CONSUMPTION.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY STORAGE TANK AND SUPPLY POTABLE WATER TO THE RESIDENCE OF 16 ARROWHEAD ROAD SHOULD THE PRIVATE WELL BECOME IN-OPERATIONAL DUE TO CONTRACTOR'S ACTIVITIES.
- CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE OUTFALLS DURING THE INSTALLATION OF THE PROPOSED 12" RCP AND ENDWALLS. THE PROPOSED DRAINAGE RELOCATION WORK SHALL BE COMPLETED PRIOR TO TEMPORARY ROADWAY CONSTRUCTION.
- FROTIER'S COMMUNICATION CABLES SHALL BE PLACED ABOVE THE 120V POWER WIRE FOR THE TEMPORARY SIGNAL HEADS, WHILE MAINTAINING A 30" MINIMUM SPACE.
- SEE LANDSCAPING PLAN LS-02 FOR TREES TO BE REMOVED AS PART OF THIS PROJECT.

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.A.B. CHECKED BY: M.D.G.
 LASTED SAVED BY: KIN&393 FILE NAME: c:\pwworking\hmm\kin&393\d0137936\HW_CB_Wilton_RWTempBridge.dgn
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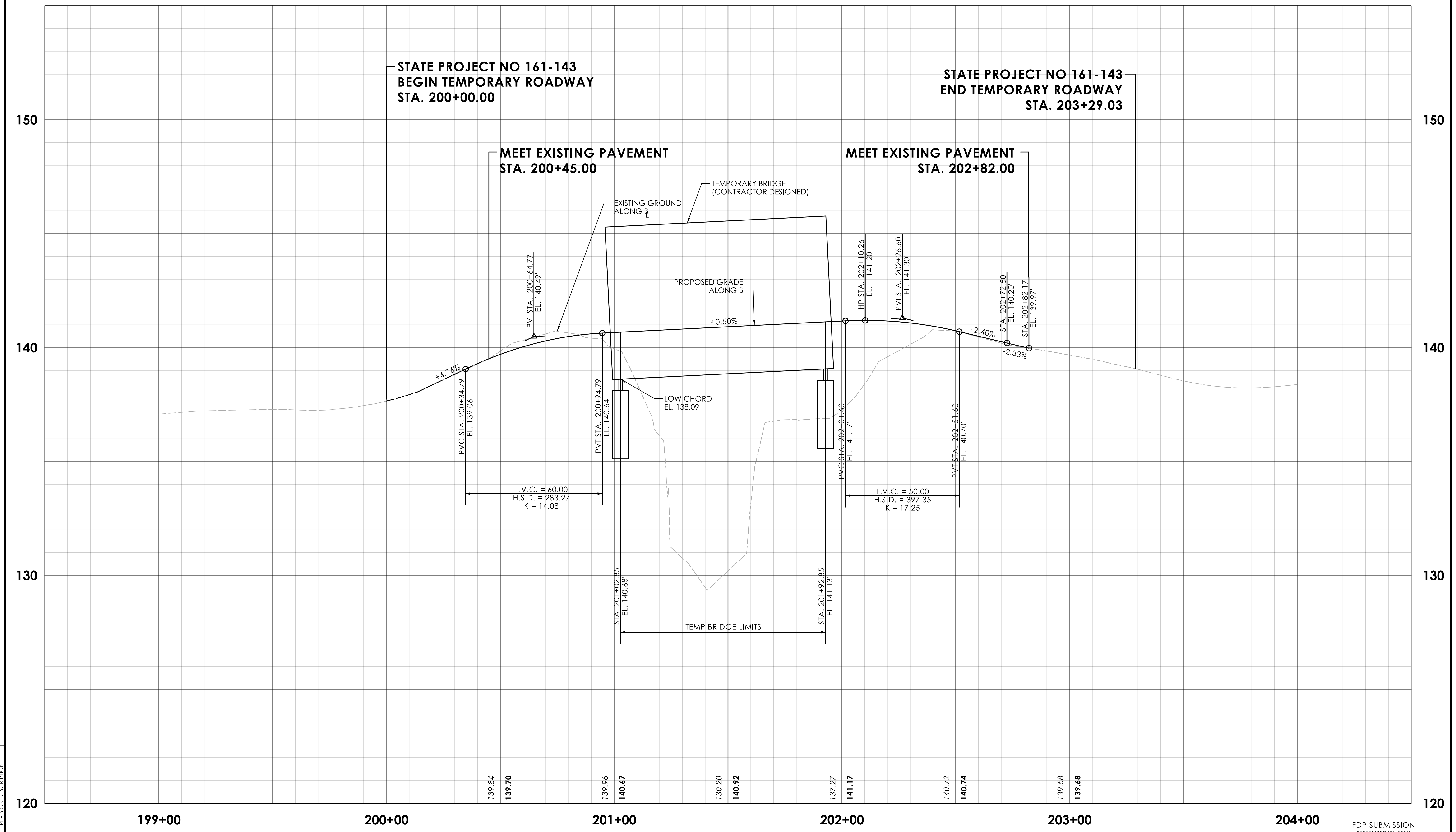
M M
MOTT MACDONALD
 175 CAPITAL BLVD
 4TH FLOOR
 ROCKY HILL, CT 06067



PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: TEMPORARY ROADWAY PLAN

FDP SUBMISSION
 SEPTEMBER 28, 2022

DRAWING NO.
 HWY-11
 SHEET NO.
 03.11



REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.A.B. CHECKED BY: M.D.G.

HORIZ. SCALE IN FEET: 1" = 40'

VERT. SCALE IN FEET: 1" = 4'

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Mott MacDonald
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4th Floor
Rocky Hill, CT 06067

MOTT MACDONALD

175 CAPITAL BLVD
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ROCKY HILL, CT 06067



PROJECT NUMBER: 0161-0143

PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD OVER NORWALK RIVER

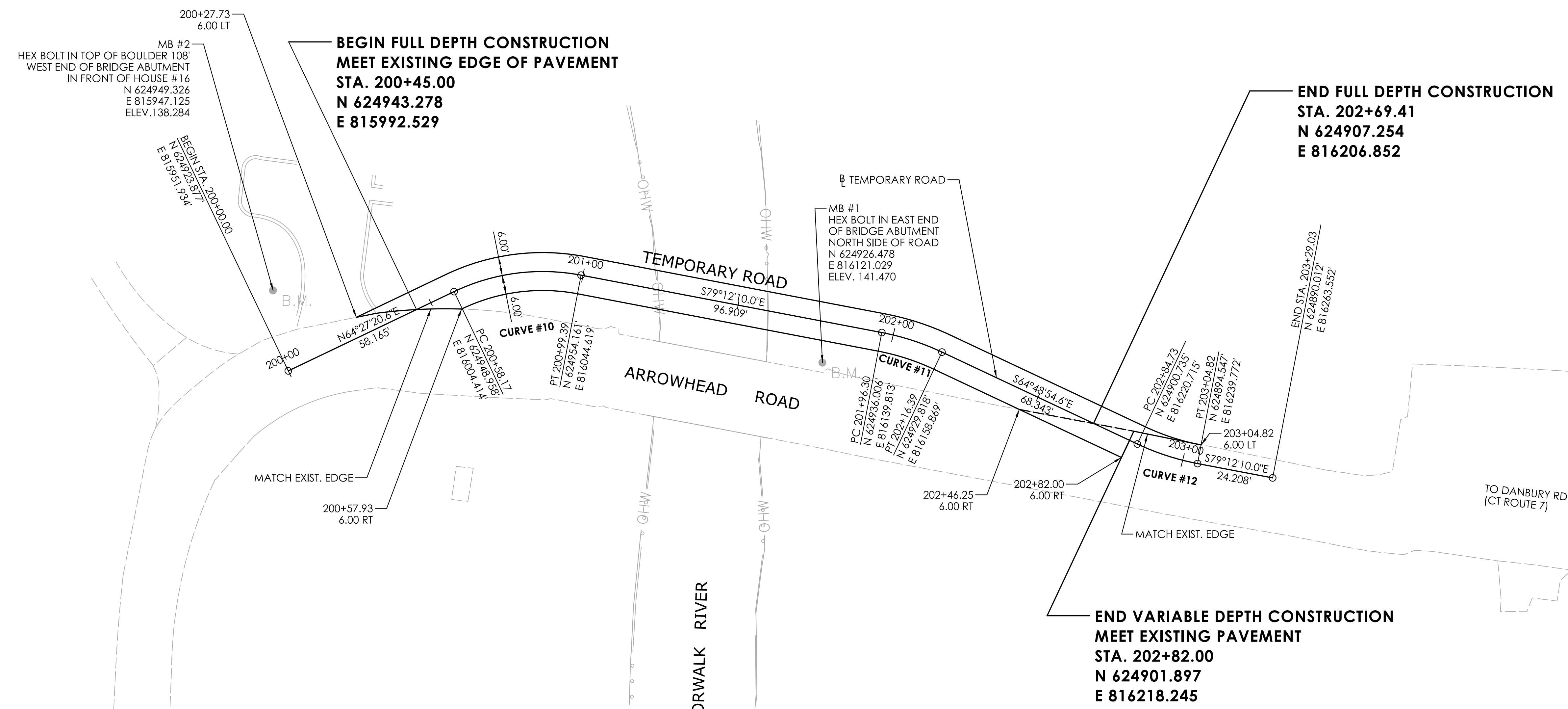
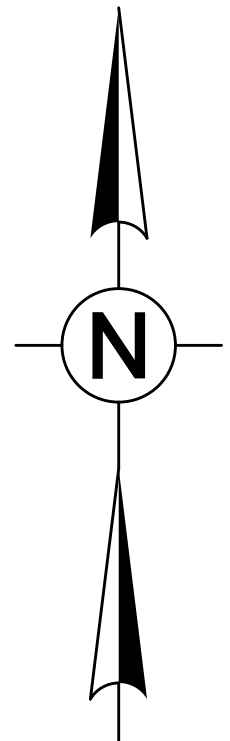
TOWN(S): WILTON

DRAWING TITLE: TEMPORARY ROADWAY PROFILE

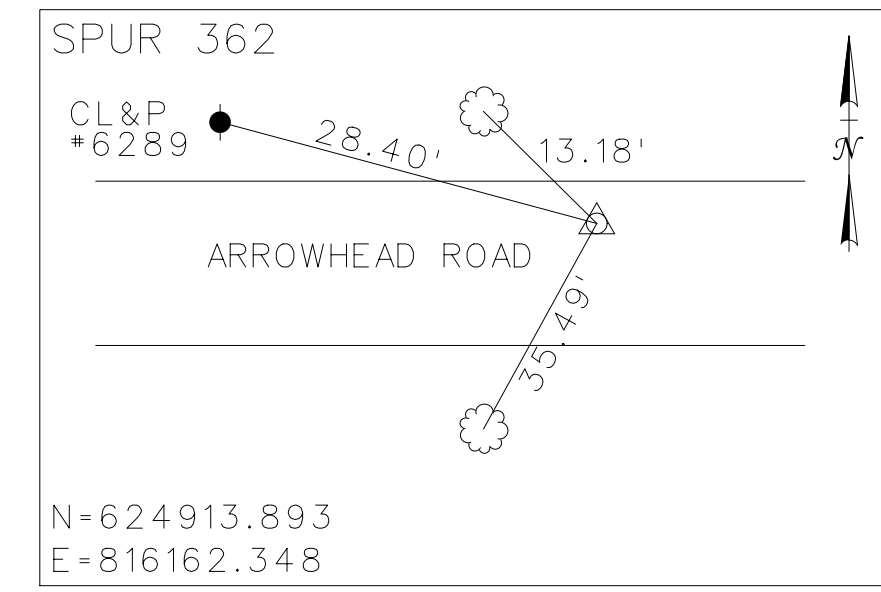
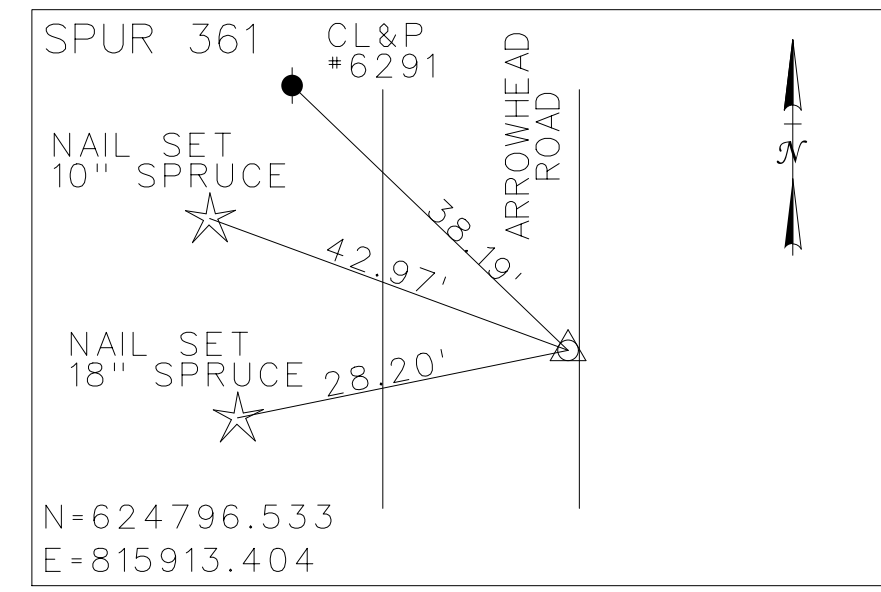
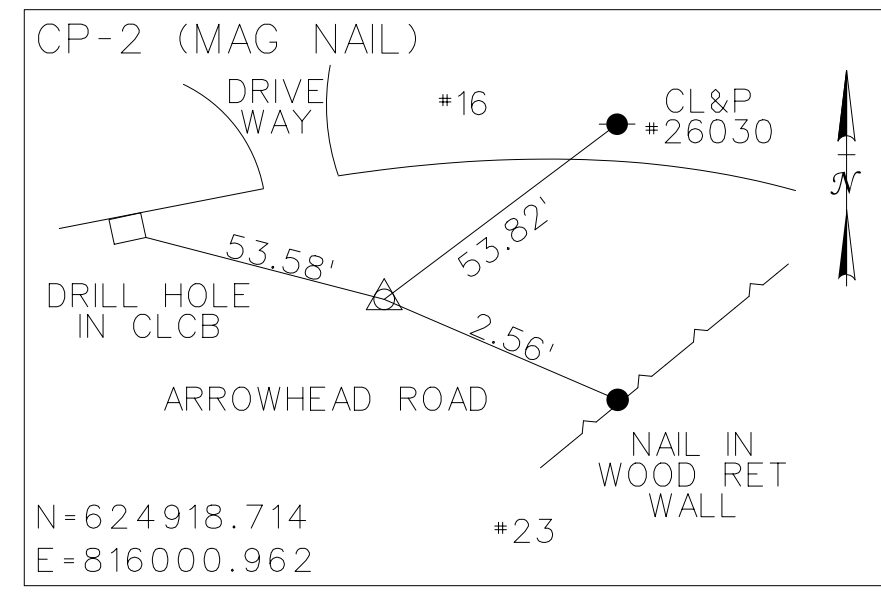
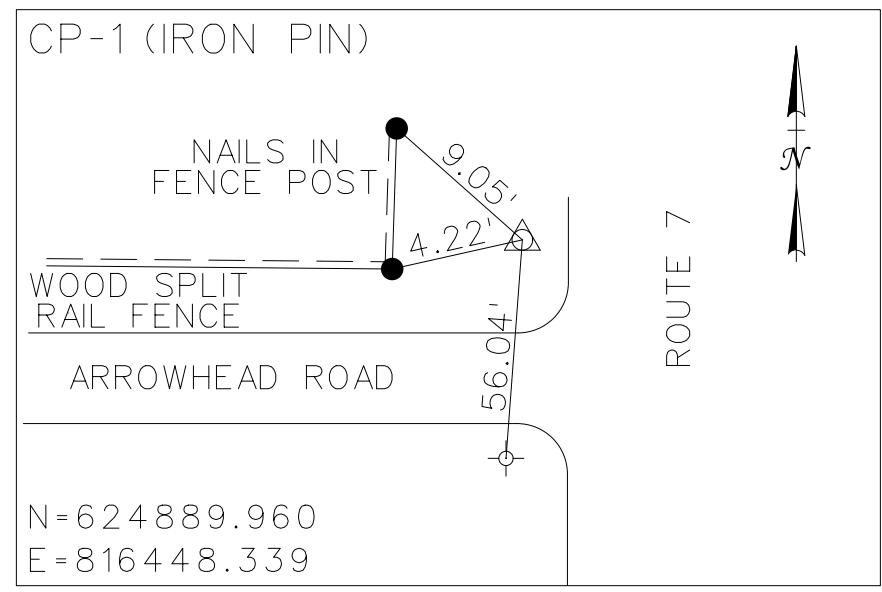
DRAWING NO. HWY-12

SHEET NO. 03.12

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SEPTEMBER 28, 2022

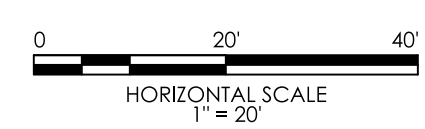


CURVE #10	CURVE #11	CURVE #12
DELTA 36°20'29.4"	DELTA 14°23'15.4"	DELTA 14°23'15.4"
T 21.334'	T 10.089'	T 10.098'
L 41.228'	L 20.089'	L 20.089'
R 65.000'	R 80.000'	R 80.000'
PI N 624958.157	PI N 624934.115	PI N 624896.438
PI E 816023.663	PI E 816149.732	PI E 816229.853
PI STA 200+79.50	PI STA 202+06.40	PI STA 202+94.83



REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.A.B. CHECKED BY: M.D.G.



SIGNATURE/BLOCK:
Mott MacDonald
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067

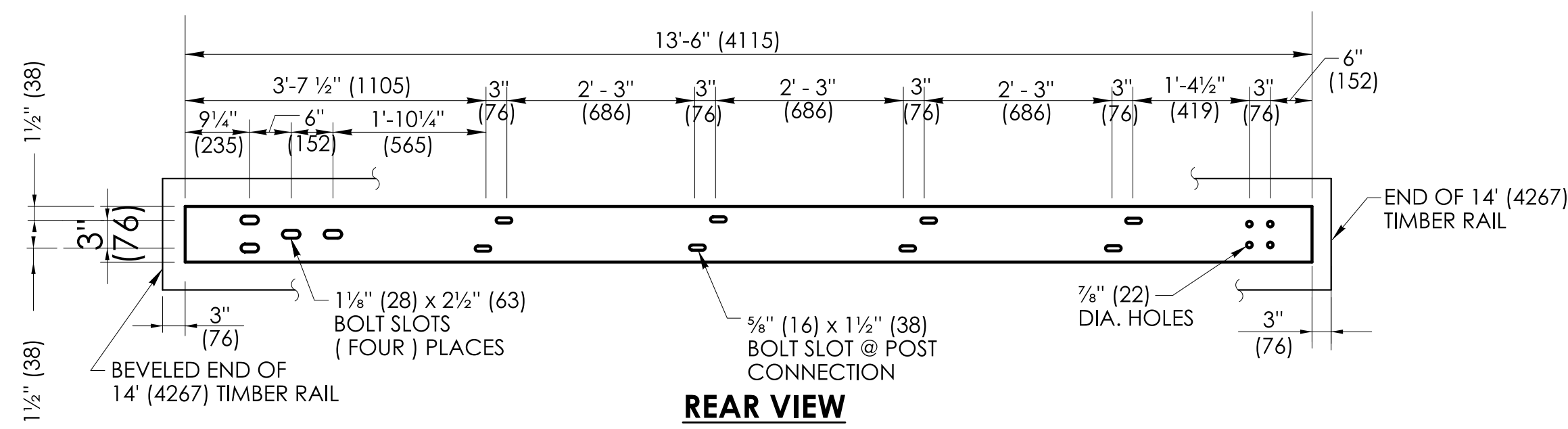
M M
MOTT MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067



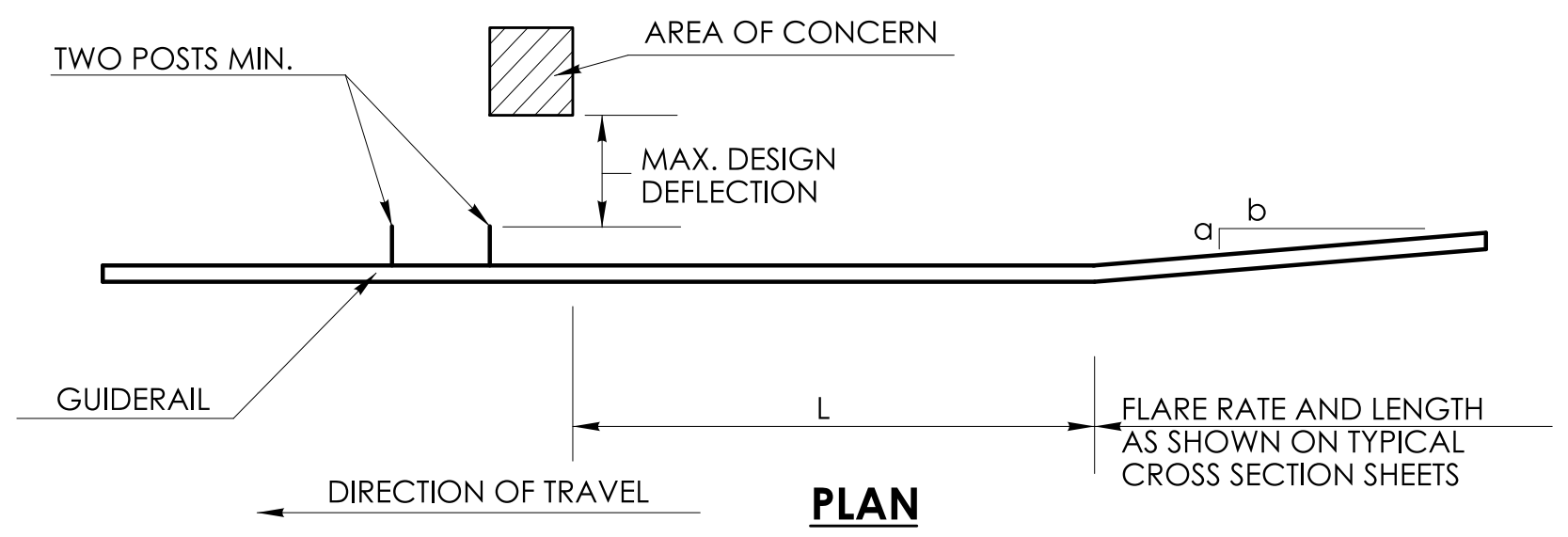
PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: TEMPORARY ALIGNMENT AND LAYOUT PLAN

FDP SUBMISSION
SEPTEMBER 28, 2022

DRAWING NO.
HWY-13
SHEET NO.
03.13



STEEL TRANSITION RAIL
6" x 3/8" x 13'-6" (152x9x4115)
FOR LEADING END ATTACHMENT

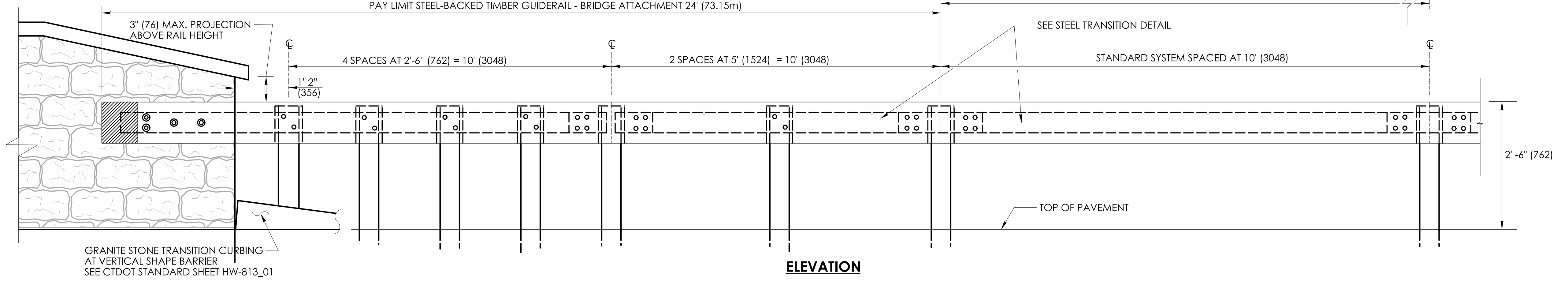
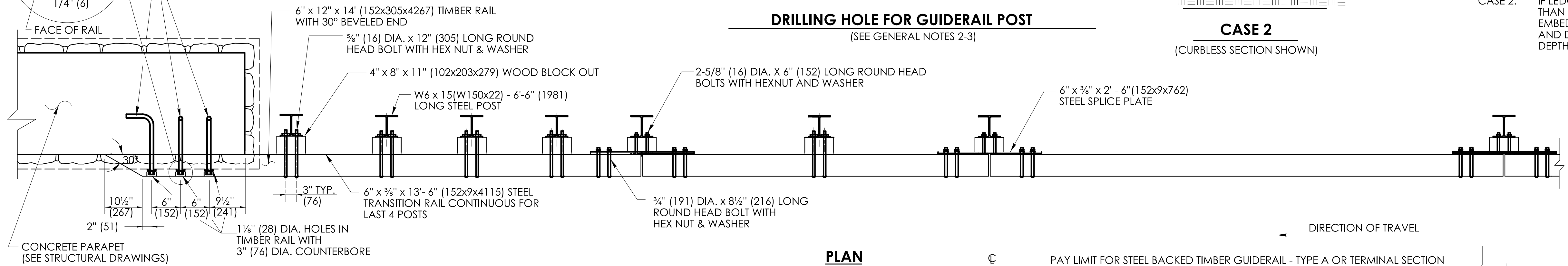
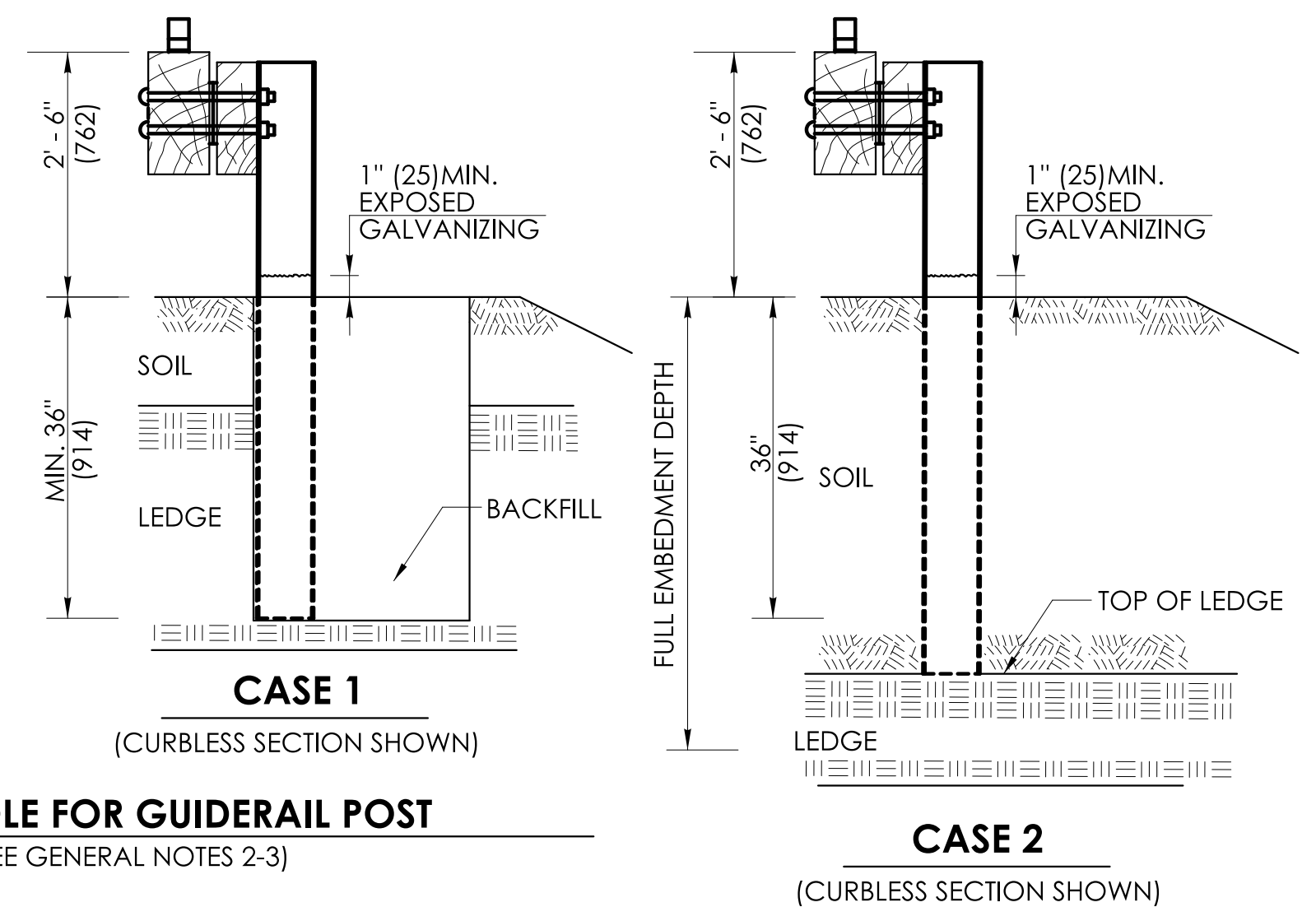
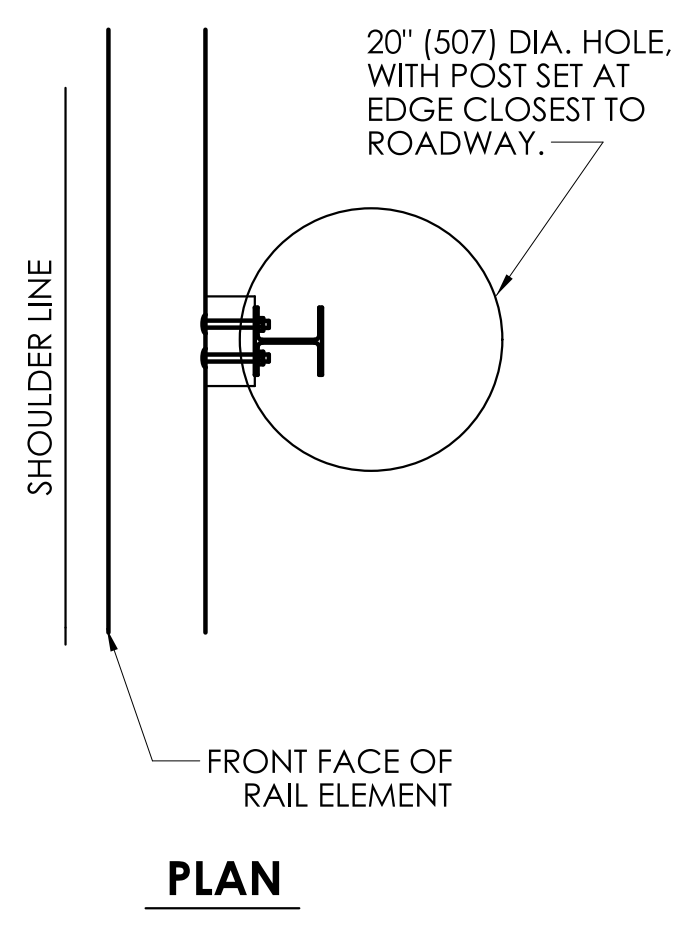
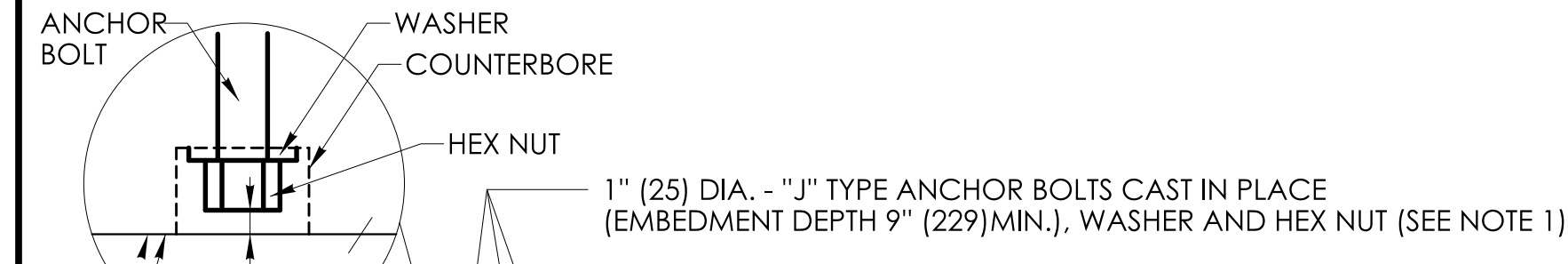


- GENERAL NOTES:**
- THIS DRAWING SHOWS LEADING END ATTACHMENT TO PROPOSED BARRIER/PARAPET.
 - PRIOR TO GUIDERRAIL POST INSTALLATION THE CONTRACTOR SHALL INVESTIGATE POST LOCATIONS FOR THE PRESENCE AND DEPTH OF LEDGE AND UNDERGROUND UTILITIES/PIPES.
 - 20" (507) DIA. EXCAVATED HOLE SHALL BE BACKFILLED WITH SUITABLE MATERIAL, OR GRANULAR FILL COMPACTED IN 6" (150) LIFTS BEFORE DRIVING POST OR POSTS MAY BE SET IN EXCAVATED HOLE AND BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM).

Maximum Design Deflection (ft) (mm)	Area Of Concern Plus 2 Posts (see sketch)	SYSTEM 3	SYSTEM 2	Standard System	L
		W6x15 (W150x22) Posts Spaced at 2'-6" (762)	W6x15 (W150x22) Posts Spaced at 5' (1524)	W6x15 (W150x22) Posts Spaced at 10' (3048)	
1' (305)	System 3	10' (3048)	10' (3048)	50' (16.40m)	70' (21.34m)
2' - 6" (762)	System 2	-	10' (3048)	60' (19.68m)	70' (21.34m)
4' (1219)	Standard System	-	-	70' (21.34m)	70' (21.34m)

STEEL-BACKED TIMBER GUIDERRAIL
DESIGN DEFLECTION CHART

- CASE 1:** IF LEDGE IS LOCATED WITHIN 36" (914) OF THE FINISHED GRADE AT THE POST LOCATION A 20" (507) DIAMETER HOLE SHALL BE DRILLED IN THE LEDGE TO THE MINIMUM EMBEDMENT DEPTH OF 36" (914) AND THE POST SHALL BE CUT AND DRIVEN TO ACHIEVE THIS DEPTH.
- CASE 2:** IF LEDGE IS LOCATED AT A DEPTH GREATER THAN 36" (914) BUT LESS THAN THE FULL EMBEDMENT DEPTH THE POST SHALL BE CUT AND DRIVEN TO ACHIEVE EMBEDMENT TO THE DEPTH OF THE TOP OF LEDGE.



STEEL-BACKED TIMBER GUIDERRAIL - BRIDGE ATTACHMENT
(FRONT VIEW)
 (SEE GENERAL NOTES 1)

REV.	DATE	REVISION DESCRIPTION

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

DESIGNER/DRAFTER: D.T.K. CHECKED BY: M.D.G. NOT TO SCALE

SIGNATURE/BLOCK: Mott MacDonald 175 Capital Blvd 4th Floor Rocky Hill, CT 06067

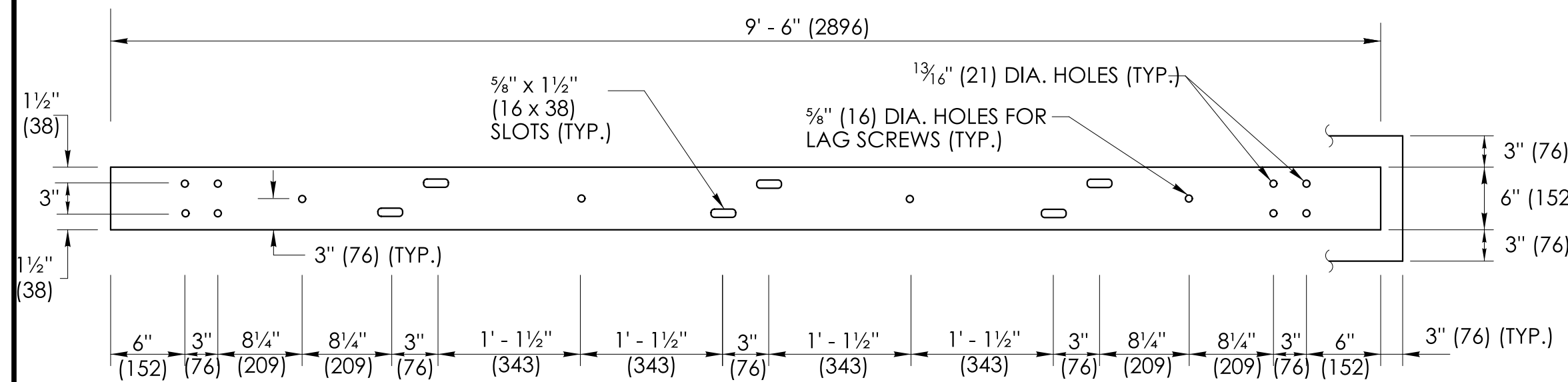
MOTT MACDONALD 175 CAPITAL BLVD 4TH FLOOR ROCKY HILL, CT 06067

TOWN OF WILTON

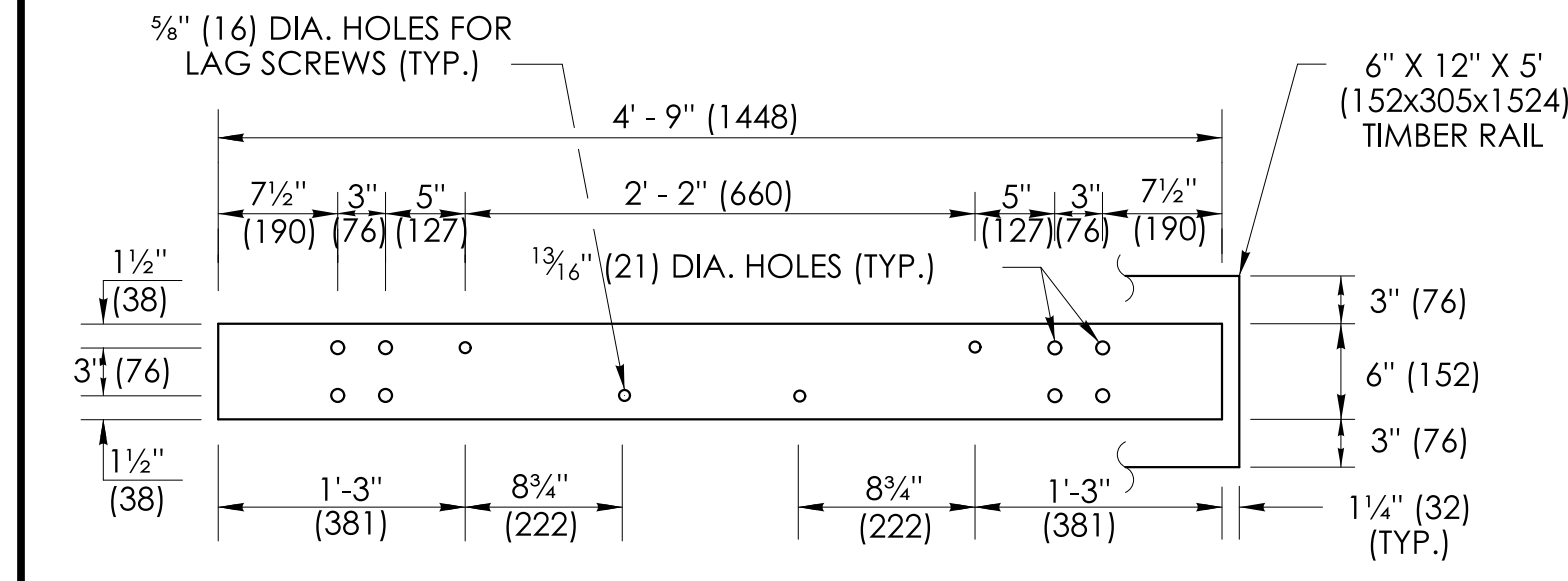
PROJECT NUMBER: 0161-0143 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER TOWN(S): WILTON DRAWING TITLE: STEEL-BACKED TIMBER GUIDERRAIL TYPE A LEADING END ATTACHMENT AND SYSTEMS 2 AND 3

FDP SUBMISSION SEPTEMBER 28, 2022

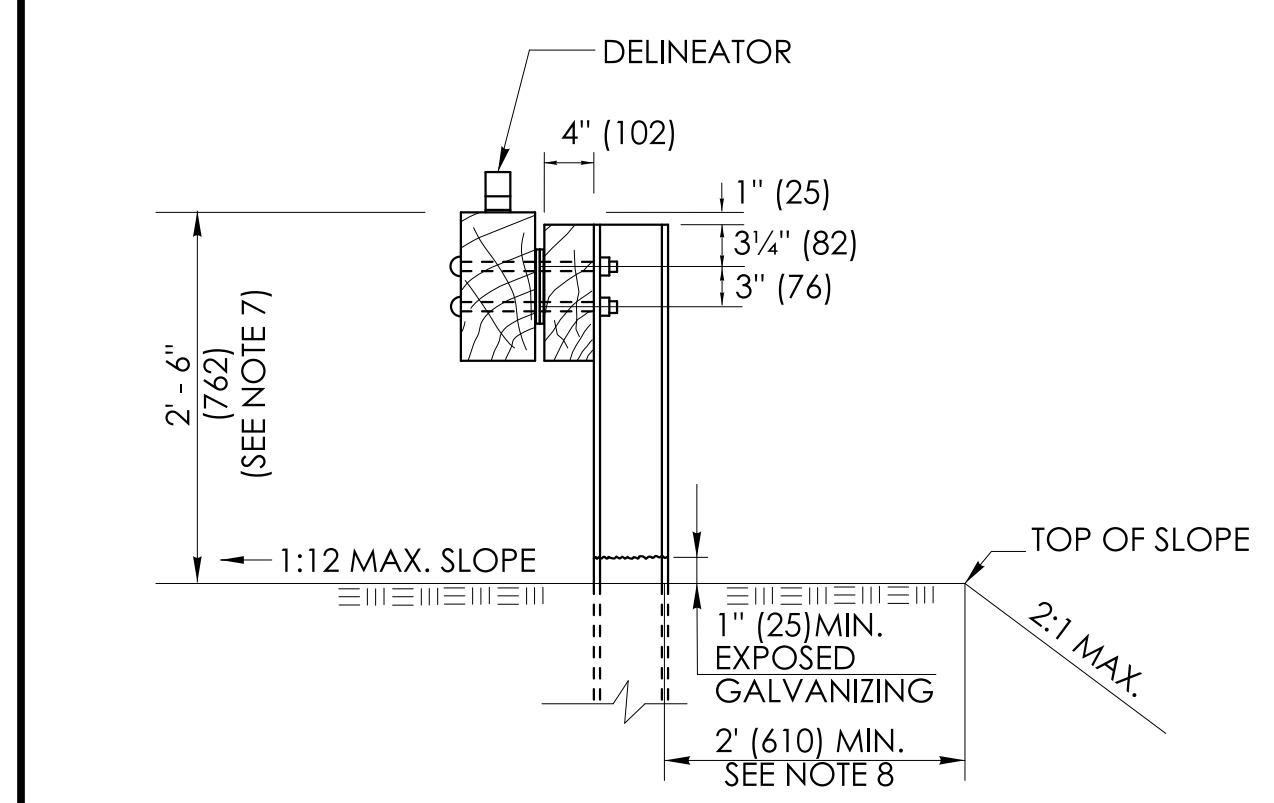
DRAWING NO. HWY-14 SHEET NO. 03.14



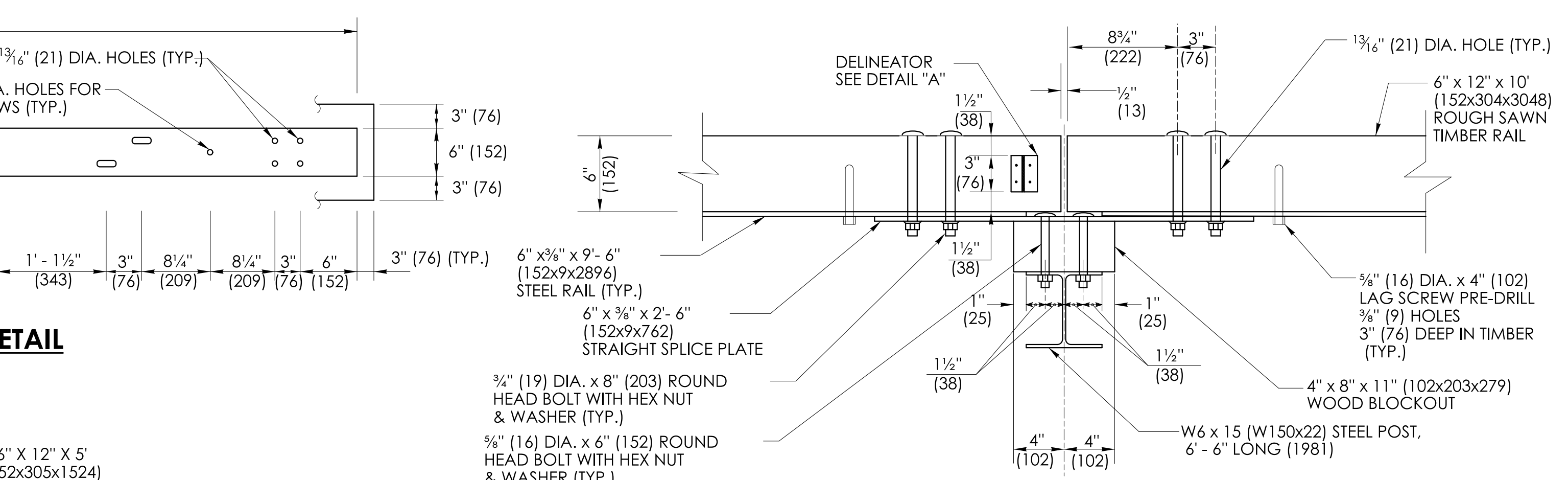
**(REAR VIEW)
STANDARD STEEL RAIL DETAIL
6" x 3/8" x 9'-6"
(152x9x2896)**



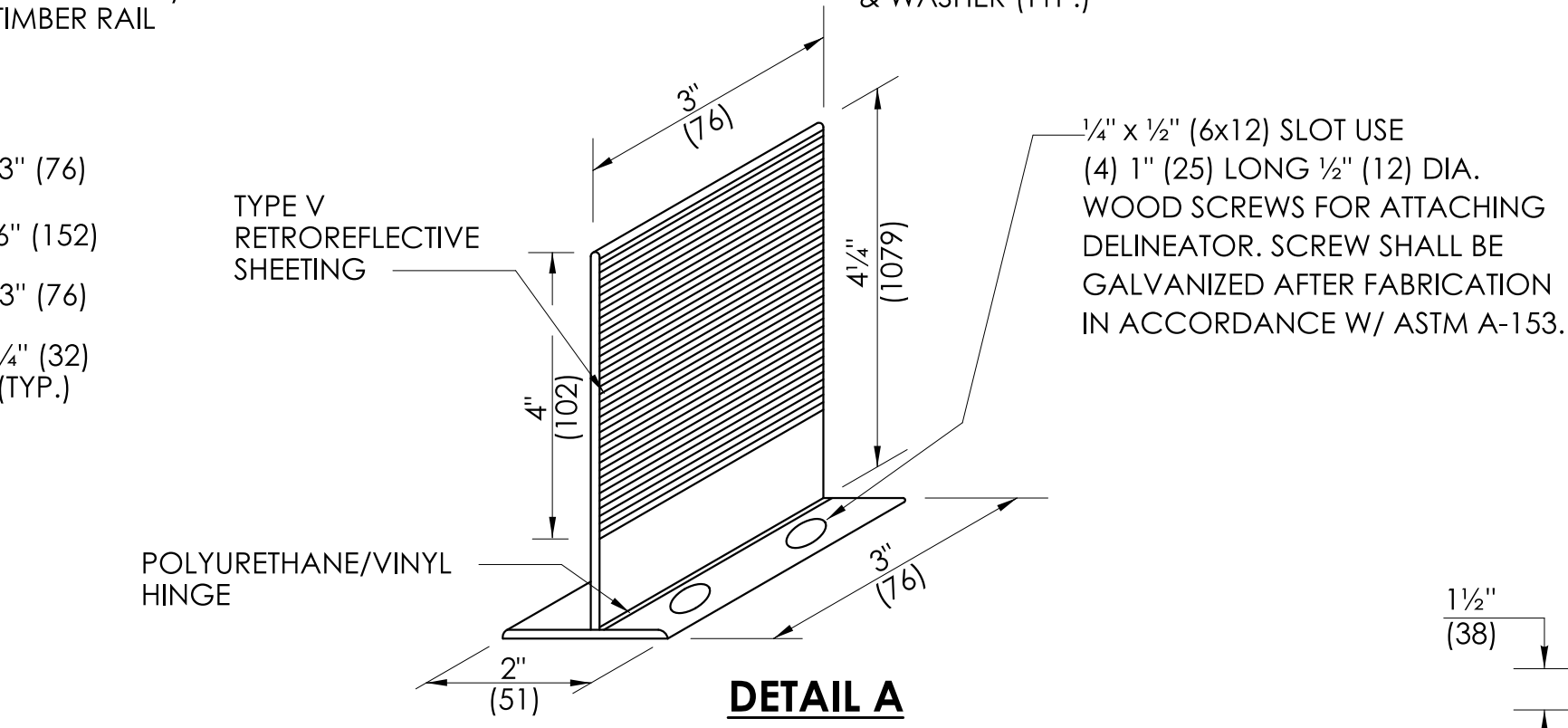
**STEEL RAIL DETAIL
6" x 3/8" x 4'-9"
(1829 x 9 x 1448)
FOR CURVES WITH R < 70' (21.3m)**



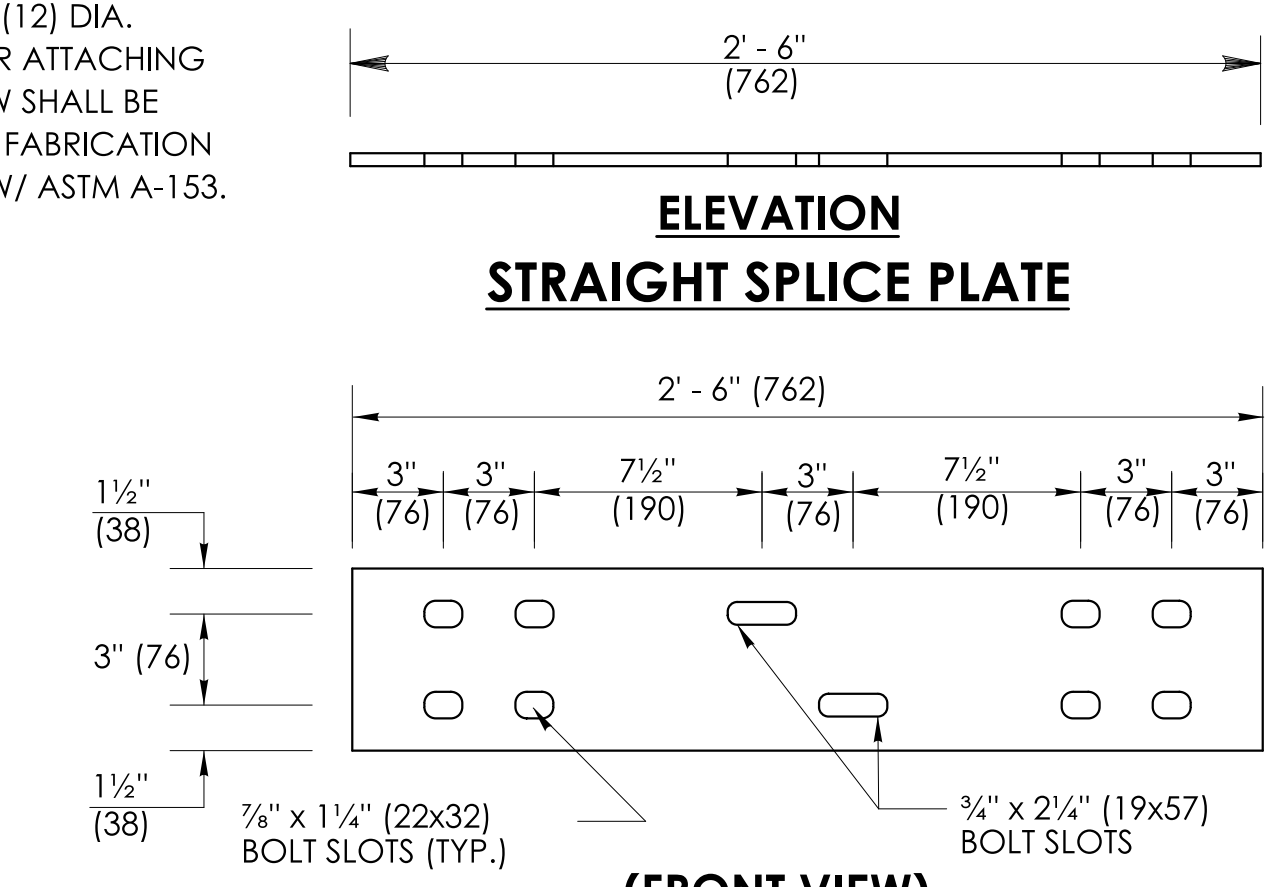
**SECTION
(NO CURB)
A**



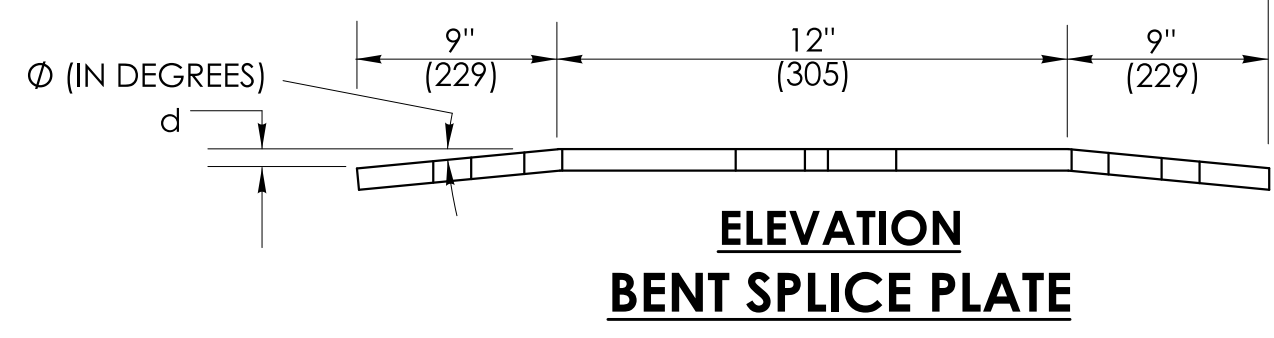
**POST CONNECTION FOR
STRAIGHT SECTIONS**



**DETAIL A
DELINEATOR**

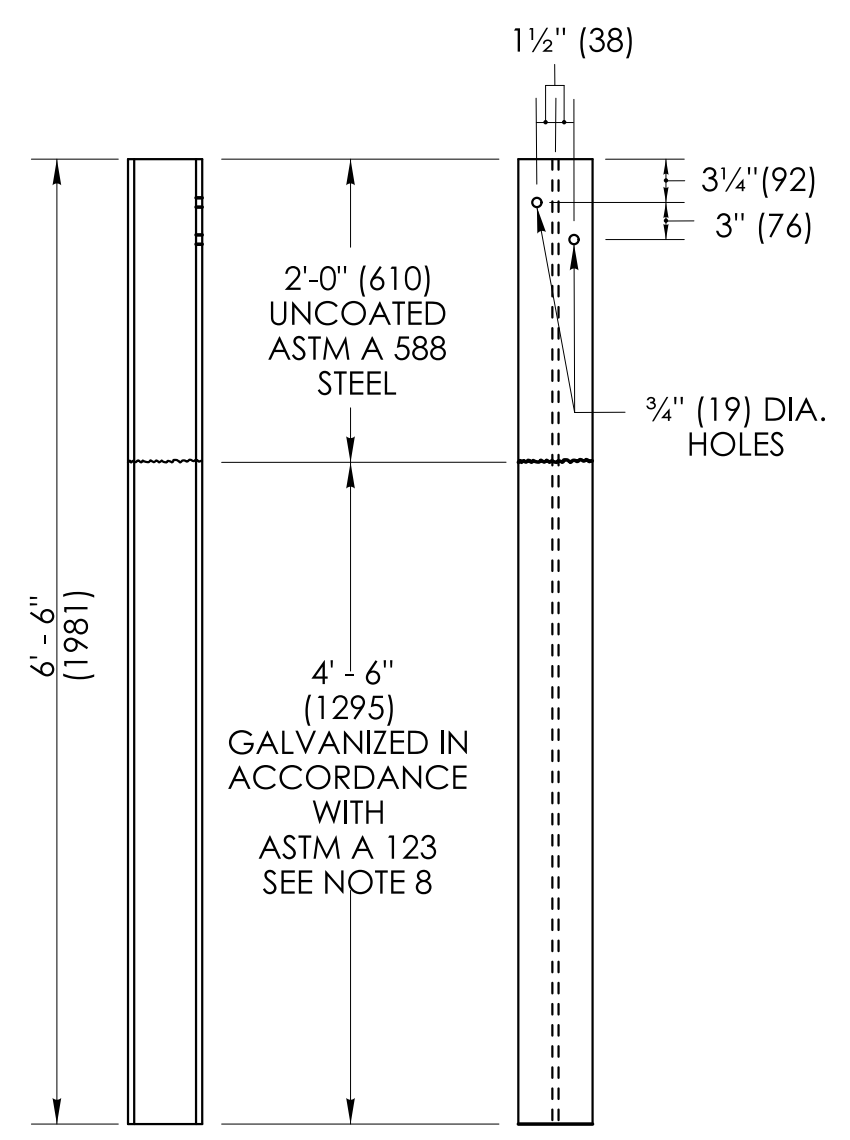


**(FRONT VIEW)
STEEL SPLICE PLATE DETAIL
6" x 3/8" x 2'-6"
(152x9x762)**

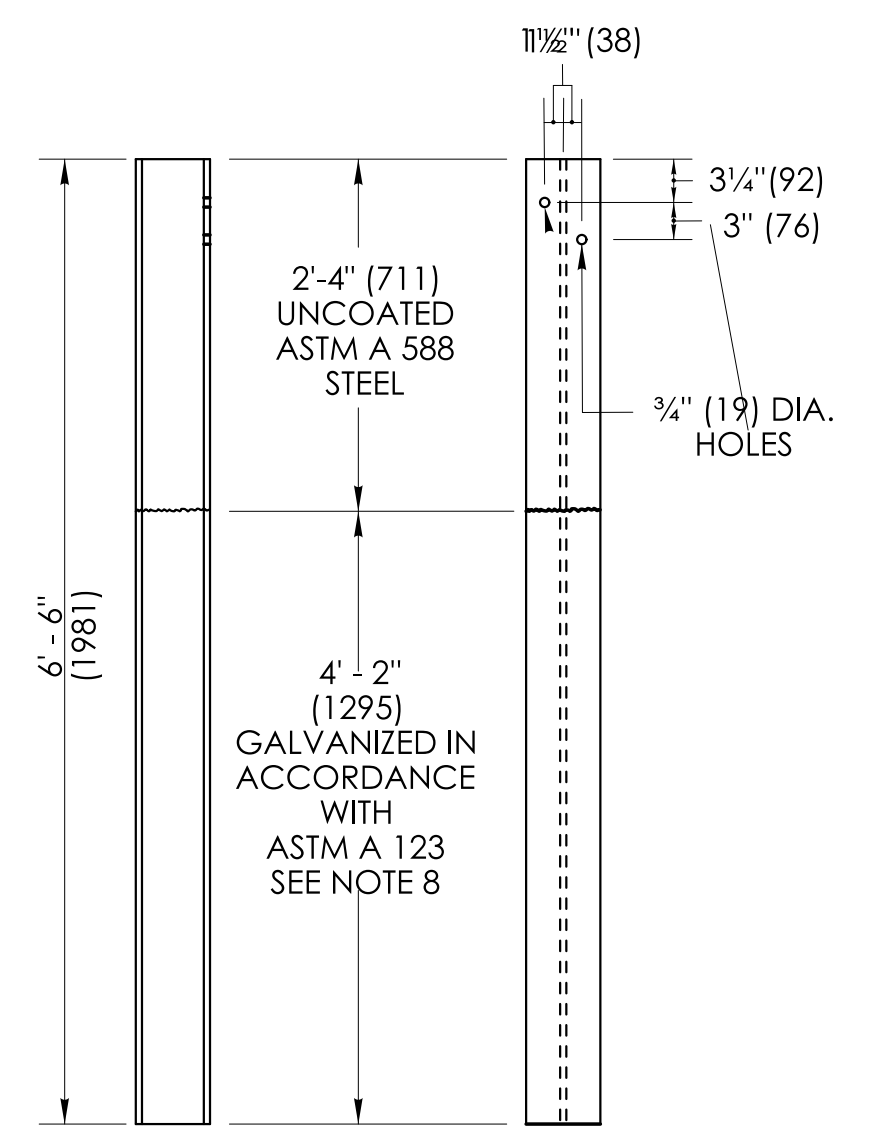


**ELEVATION
BENT SPLICE PLATE**

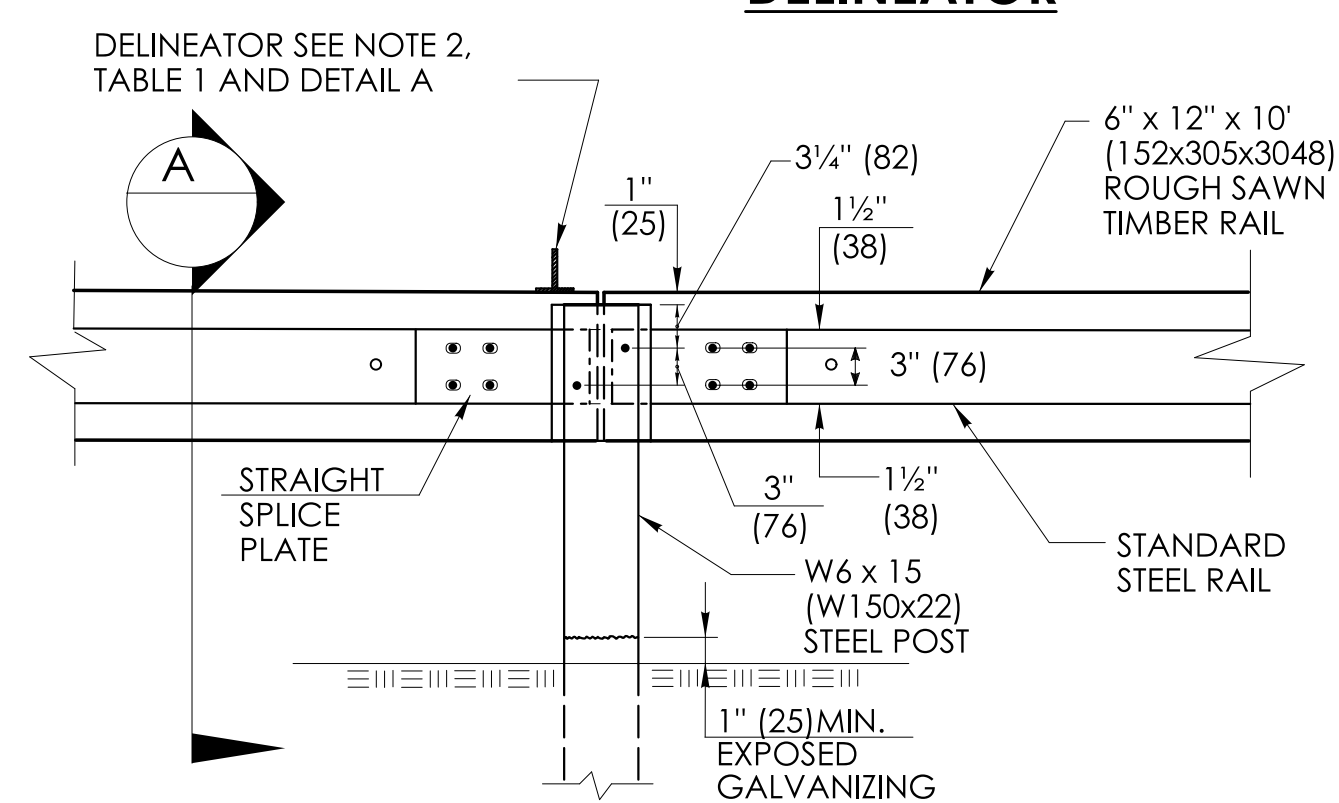
- GENERAL NOTES:**
- MATERIALS AND CONSTRUCTION OF THE STEEL-BACKED TIMBER GUIDERAIL SHALL CONFORM TO SPECIAL PROVISION PROVIDED WITH THE PROJECT AND SHALL BE PAID FOR UNDER THE ITEM "STEEL-BACKED TIMBER GUIDERAIL - TYPE A".
 - DELINEATORS SHALL BE PLASTIC INVERTED T-SECTIONS IN ACCORDANCE WITH DETAIL "A". REFLECTORS SHALL BE SPACED IN ACCORDANCE WITH TABLE 1, AND POSITIONED PERPENDICULAR TO THE ADJACENT EDGE OF LANE. DO NOT ATTACH REFLECTORS ON FLARE OR TERMINAL SECTIONS. REFLECTIVE SHEETING SHALL BE SILVER-WHITE ON ALL RAIL SECTIONS ADJACENT TO THE RIGHT SHOULDER, AND YELLOW ON RAIL SECTIONS ADJACENT TO THE LEFT SHOULDER OF TRAVEL LANES. DELINEATORS SHALL BE INCLUDED IN THE COST FOR "STEEL-BACKED TIMBER GUIDERAIL - TYPE A".
 - TWO ADDITIONAL 5/8" (16) DIA. X 4" (102) LONG LAG SCREWS AND WASHERS SHALL BE INSTALLED AT ALL MID-SPAN POINTS FOR STANDARD SYSTEMS.
 - ALL CONNECTION HARDWARE SHALL BE SUFFICIENTLY TIGHTENED TO ACCOMMODATE FOR SHRINKAGE OF THE WOOD ELEMENTS.
 - WHEN FURNISHING THE SHOP BENT SPLICE PLATES, USE THE MINIMUM BEND ANGLE AS SHOWN IN TABLE 2.
 - FOR RAILING SET ON A CURVE WITH RADII < 70' (21.3m) SPACE POSTS AT 5' (1524).
 - GUIDERAIL HEIGHT MAY VARY UP TO 2" (51) PLUS OR MINUS THE HEIGHT SHOWN IN THE DETAILS TO ACHIEVE A SMOOTH AND CONTINUOUS GUIDERAIL PROFILE.
 - 7'-6" (2286) LONG POSTS MAY BE USED IN LOCATIONS WHERE 2' (610) MIN SHELF IS NOT ATTAINABLE. GALVANIZED COATING LIMITS SHALL BE INCREASED BY 1" (305). PAYMENT FOR EXTRA LONG POSTS SHALL BE INCLUDED WITH THE ITEM FOR "STEEL-BACKED TIMBER GUIDERAIL - TYPE A".



**SIDE VIEW FRONT VIEW
POST DETAIL
W6 X 15
(W150x22)
WITH CURBING**



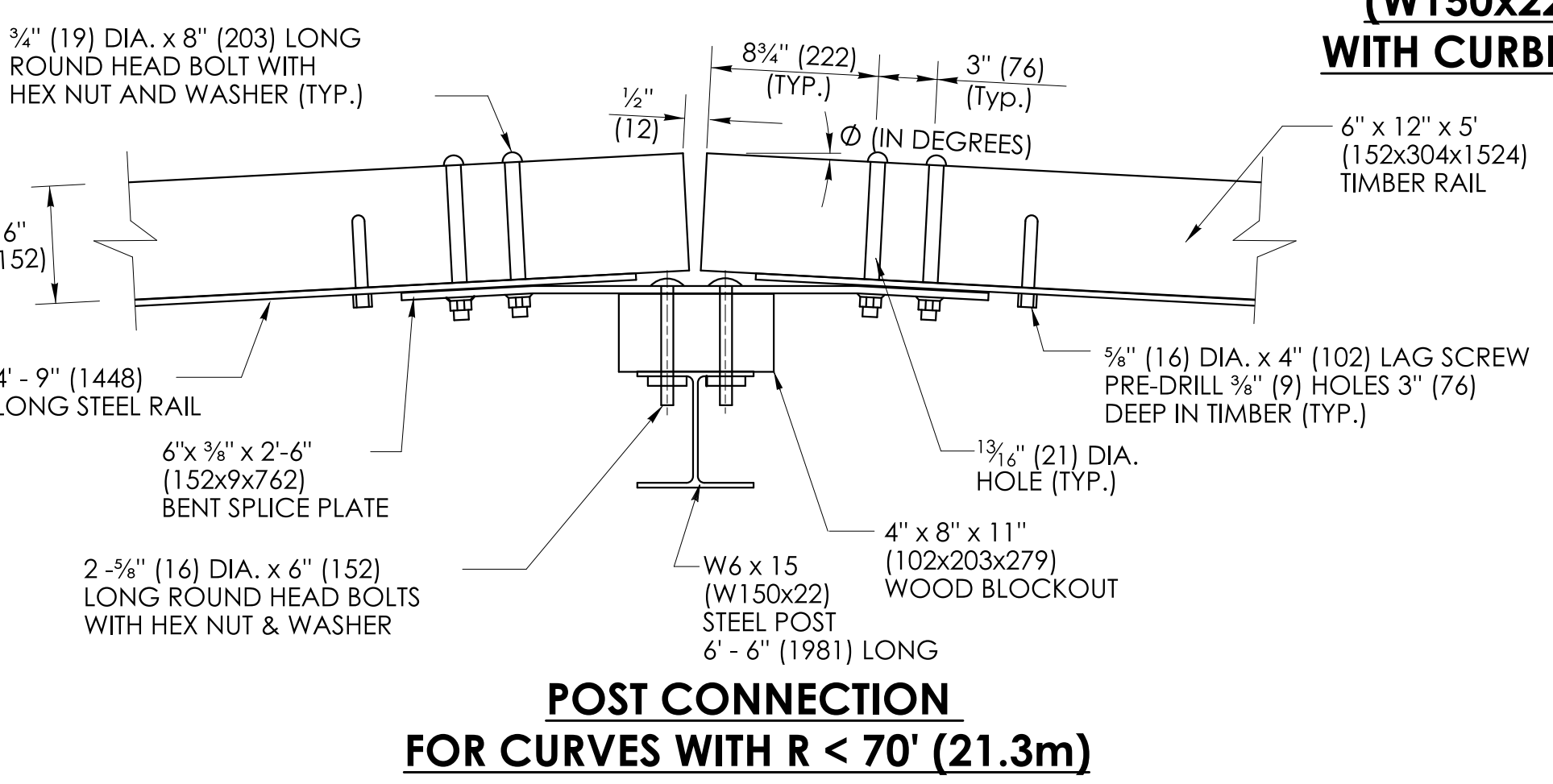
**SIDE VIEW FRONT VIEW
POST DETAIL
W6 X 15
(W150x22)
NO CURBING**



**REAR VIEW ELEVATION
POST CONNECTION**

TABLE 1

DELINEATOR SPACING	
CURVE RADIUS	SPACE
< 300' (91.4m)	20' (6.10m)
> 300' (91.4m)	50' (15.2m)



**POST CONNECTION
FOR CURVES WITH R < 70' (21.3m)**

TABLE 2

Radius R (ft.)(m)	Ø (Degrees)	d (in.)(mm)
35 (10.7)Min.	4.10	5/16
40 (12.2)	3.58	3/8(14)
45 (13.7)	3.18	1/2(13)
50 (15.2)	2.86	5/8(11)
55 (16.8)	2.60	3/4(9)
60 (18.3)	2.40	7/8(8)
65 (19.8)	2.20	1(8)
70 (21.3)	2.05	1 1/8(8)
Over 70 (21.3)	Flat	0

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

FDP SUBMISSION
SEPTEMBER 28, 2022

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: D.T.K. CHECKED BY: M.D.G.
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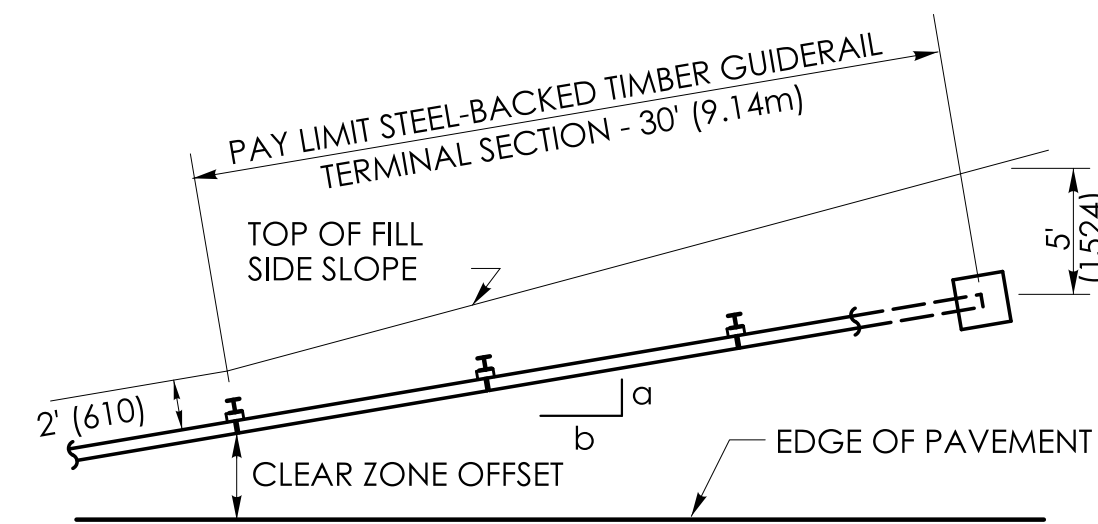
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M M
MOTT MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

TOWN OF WILTON

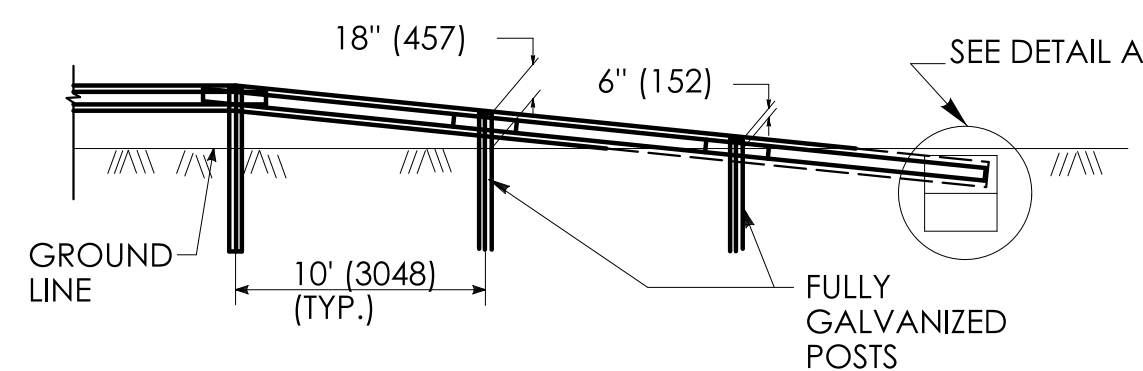
PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: STEEL-BACKED TIMBER GUIDERAIL TYPE A HARDWARE DETAILS

DRAWING NO. HWY-15
SHEET NO. 03.15

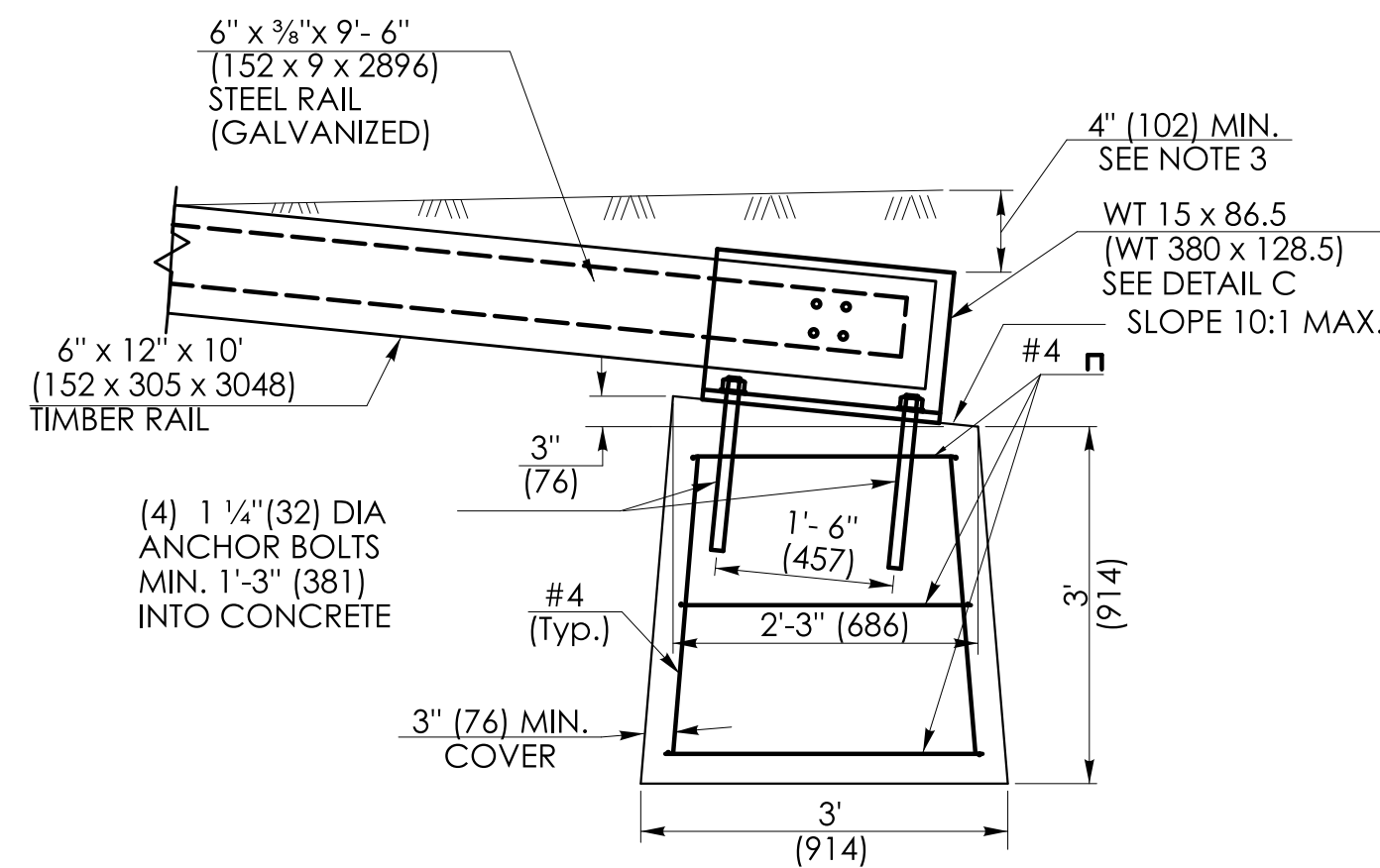


PLAN
STEEL-BACKED TIMBER GUIDERAIL TERMINAL SECTION
(BURIED END ANCHORAGE TYPE I)

NOTE: SEE PLAN SHEETS FOR FLARE RATE α : β .



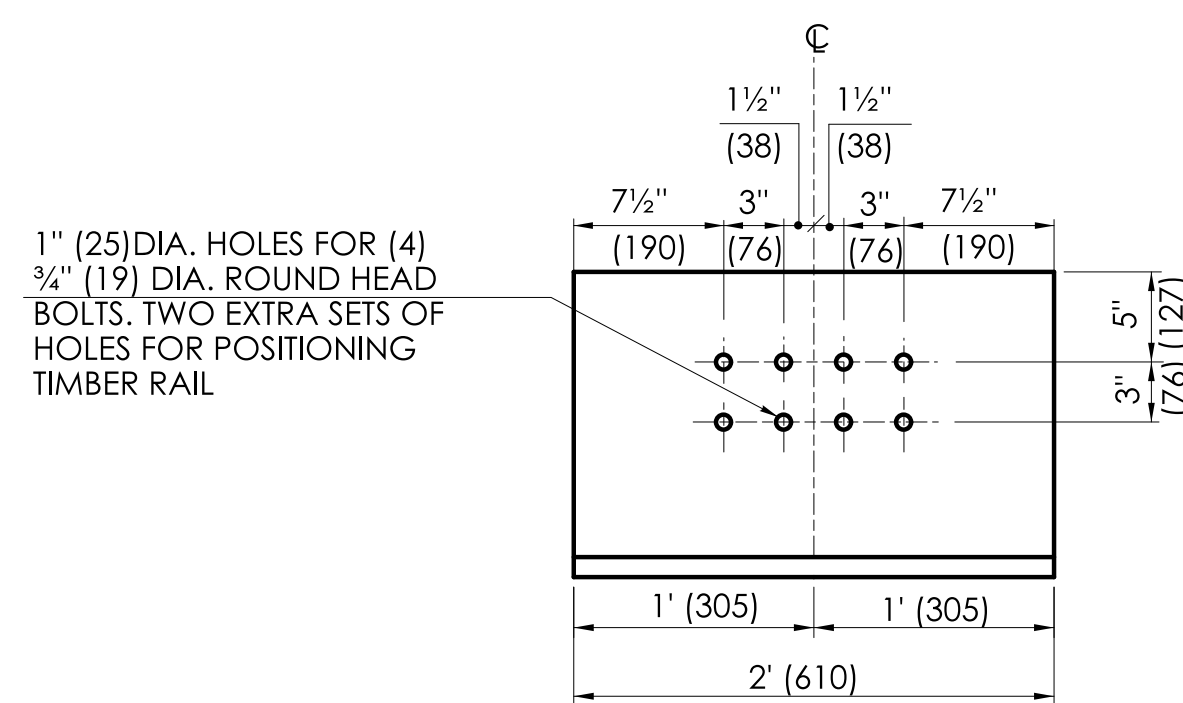
ELEVATION



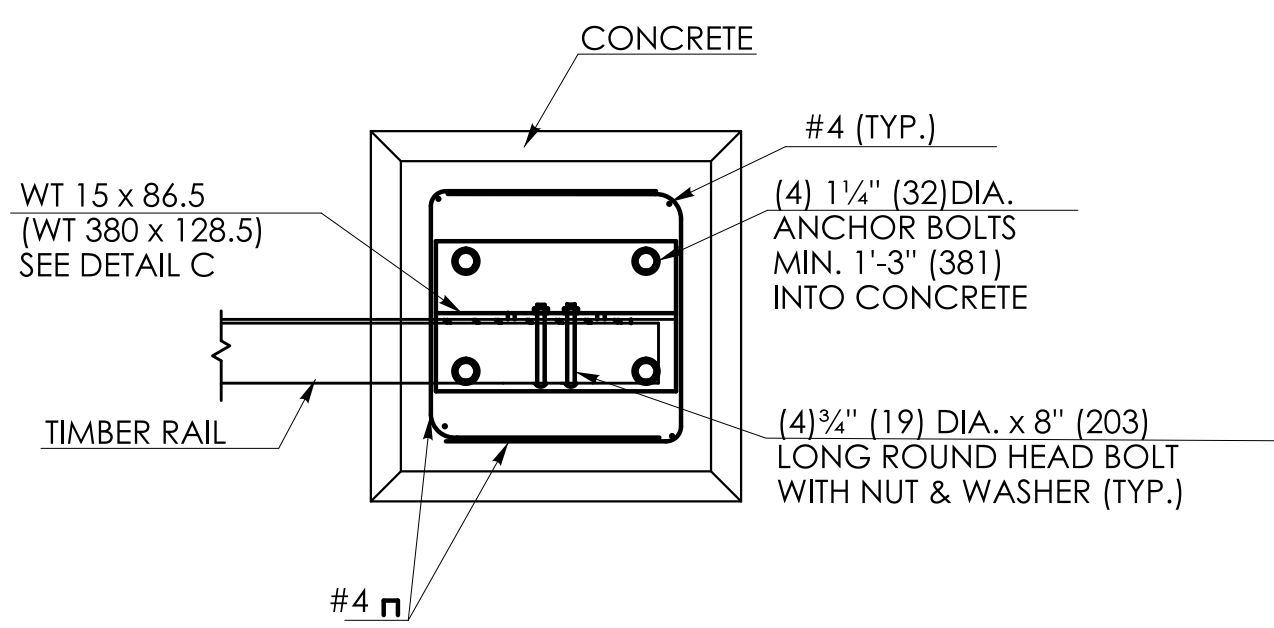
ELEVATION
DETAIL A

GENERAL NOTES:

1. MATERIALS AND CONSTRUCTION OF THE STEEL-BACKED TIMBER GUIDERAIL END ANCHORS SHALL CONFORM TO THE SPECIAL PROVISIONS PROVIDED WITH THE PROJECT AND BE PAID UNDER THE ITEM FOR "STEEL-BACKED TIMBER GUIDERAIL - TERMINAL SECTION". ALL HARDWARE IN CONTACT WITH THE GROUND SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIAL PROVISION.
2. FOR THE END ANCHOR TYPE I, BURY THE GUIDERAIL ANCHOR AND ELEMENT TO OBTAIN A MINIMUM COVER OF 4" (102). SEE DETAIL A.
3. BEGIN THE FLARE AT THE NEAREST POST TO A TRANSITION POINT BETWEEN FILL AND CUT AS DIRECTED BY THE ENGINEER.
4. THE GUIDERAIL FLARE SHOWN ON THE PLAN SHEETS IS THE MINIMUM LENGTH AND RATE REQUIRED AS DIRECTED BY THE ENGINEER.



ELEVATION
DETAIL C
WT 15 x 86.5 (GALVANIZED)
(WT 380 x 128.5)



PLAN
DETAIL D
PLAN VIEW FOR
TYPE I ANCHOR

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

FDP SUBMISSION
SEPTEMBER 28, 2022

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: D.T.K. CHECKED BY: M.D.G.
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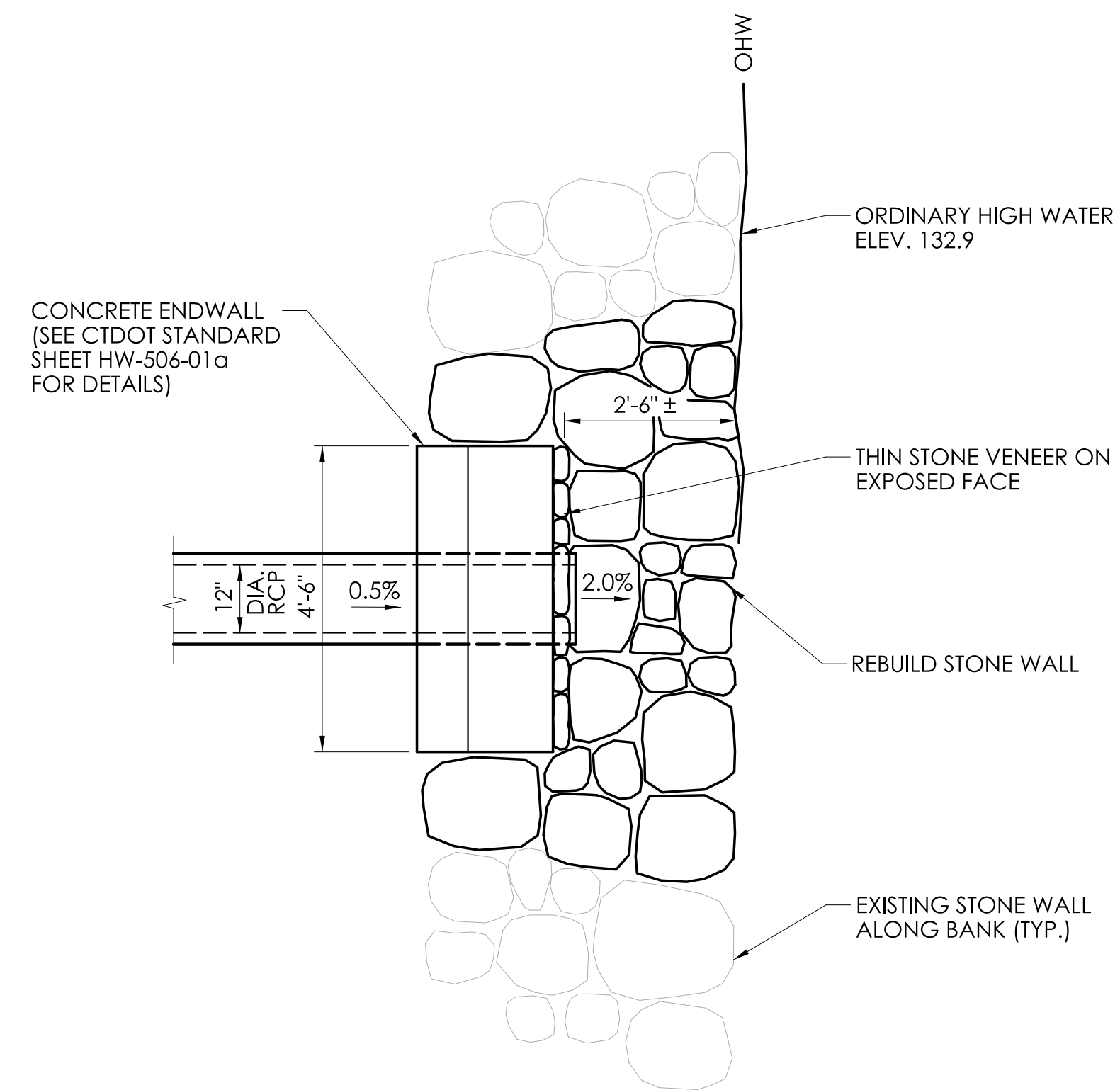
SIGNATURE/BLOCK:
Mott MacDonald
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067.

M M
MOTT
MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

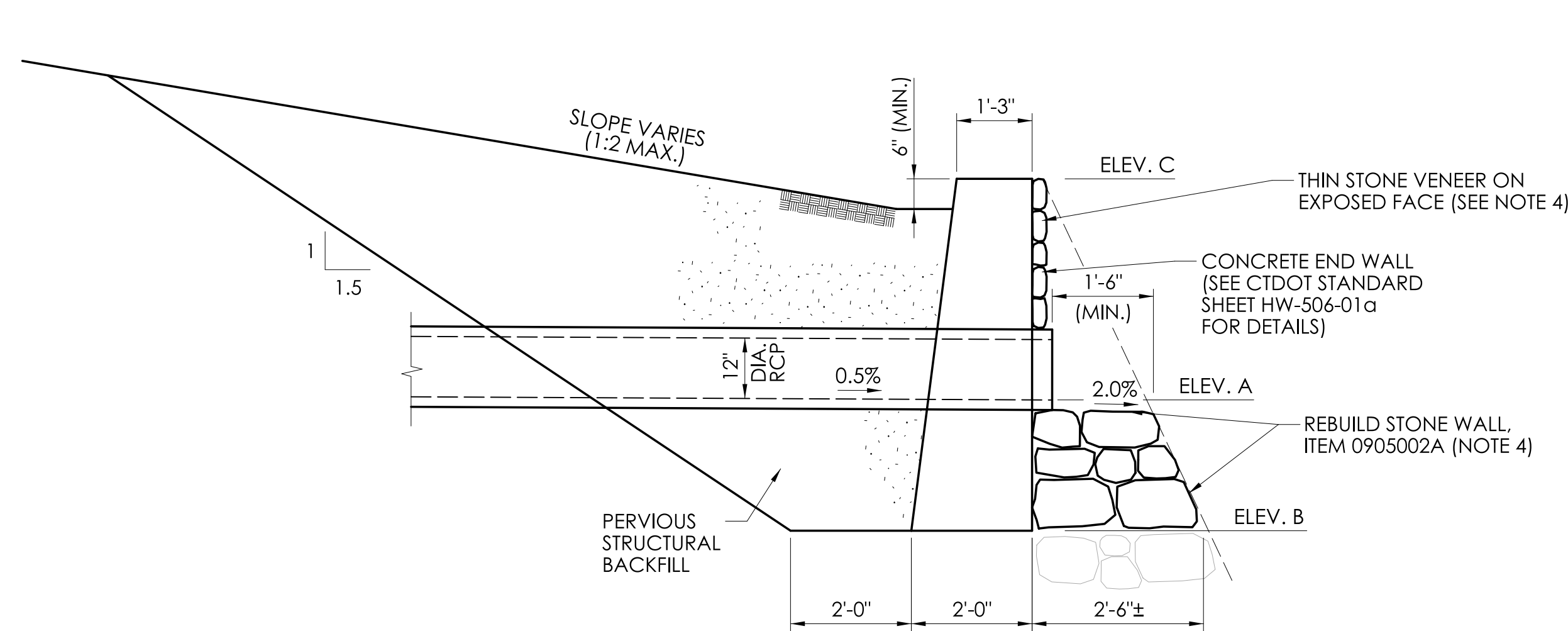
TOWN
OF
WILTON

PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: STEEL-BACKED TIMBER GUIDERAIL - TERMINAL SECTION

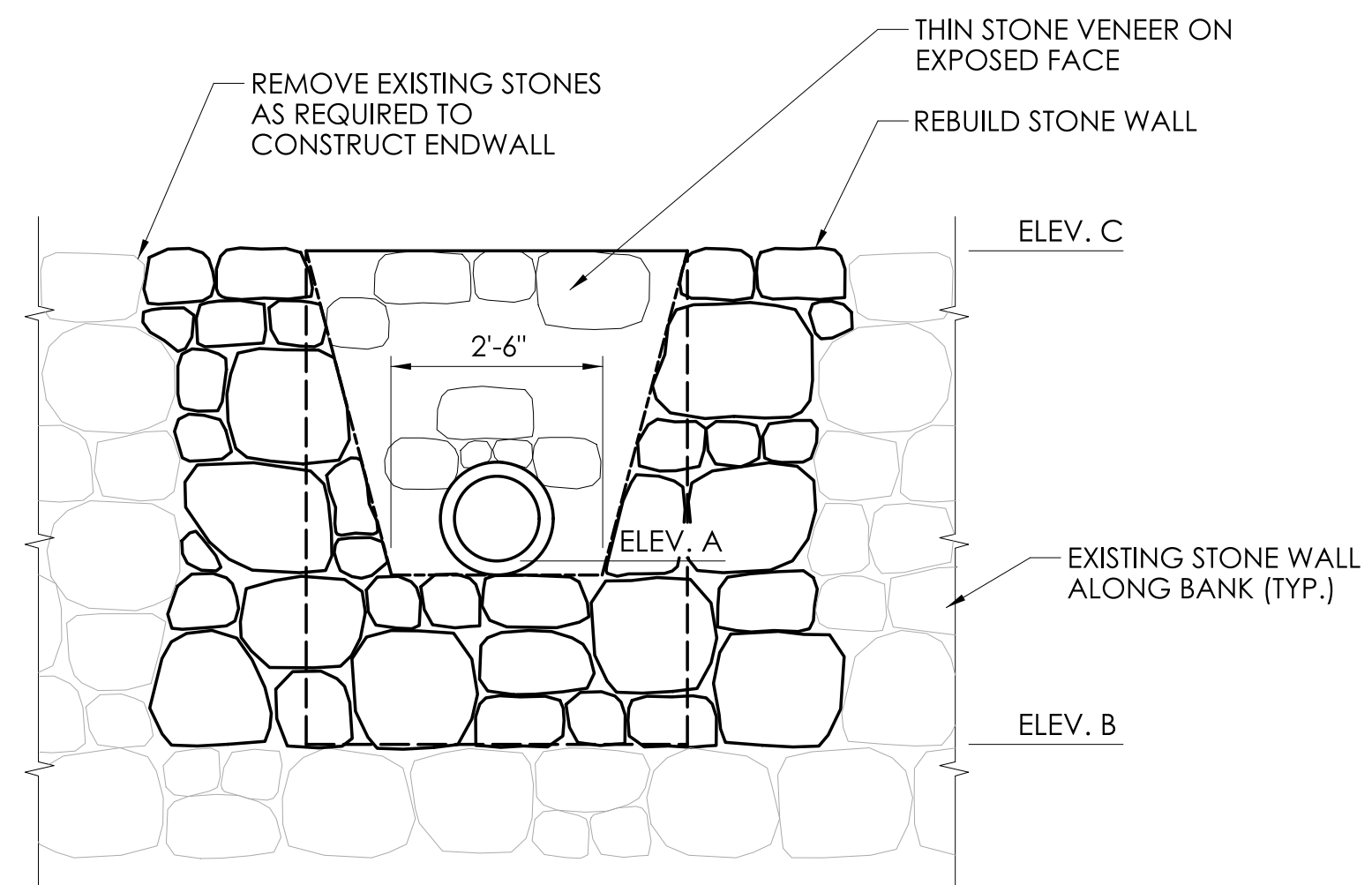
DRAWING NO.
HWY-16
SHEET NO.
03.16



PLAN
SCALE: 1/2" = 1'-0"



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



ELEVATION
SCALE: 1/2" = 1'-0"

ENDWALL LOCATION	ELEV. A	ELEV. B	ELEV. C	TOTAL HEIGHT
SE QUADRANT	134.32	132.32	136.82	4.5 FT
SW QUADRANT	133.34	131.34	137.50	6.16 FT

NOTES:

- ELEVATION "C" (TOP OF ENDWALL) IS ALSO THE APPROXIMATE TOP OF THE EXISTING STONE WALL ALONG BANK.
- ENDWALLS TO BE PAID UNDER THE ITEM "TYPE "D-G" ENDWALL".
- FACE OF NEW STONES TO MATCH SLOPE OF EXISTING STONE WALL.
- CONFINEMENT FROM THE RIVER SHALL BE PROVIDED FOR THE CONSTRUCTION OF DRAINAGE RELOCATION, ENDWALLS AND REBUILD STONE WALL. THE COST FOR CONFINEMENT SHALL BE INCLUDED IN THE ITEM 0204151 - HANDLING WATER.
- CONTRACTOR SHALL RE-PURPOSE EXISTING BOULDERS AND CREEK STONE REMOVED FROM THE BANK FOR THE END WALL STONE VENEER. ALL ASSOCIATED EFFORT TO BE PAID UNDER THE ITEM "MASONRY FACING". SEE SPECIAL PROVISIONS.

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.A.B. CHECKED BY: M.D.G.

SIGNATURE/BLOCK: Mott MacDonald
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067.

M M
MOTT MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

TOWN OF WILTON

PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: ENDWALL DETAILS

FDP SUBMISSION
SEPTEMBER 28, 2022

DRAWING NO.
HWY-17
SHEET NO.
03.17

04 - TRAFFIC INDEX OF DRAWINGS


DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
TR-01	TRAFFIC INDEX OF DRAWINGS		
MPT-01	MAINTENANCE & PROTECTION OF TRAFFIC - STAGE 1		
MPT-02	MAINTENANCE & PROTECTION OF TRAFFIC - STAGE 2		
MPT-03	MAINTENANCE & PROTECTION OF TRAFFIC - STAGE 3		
TCS-01	TEMPORARY TRAFFIC SIGNAL CONTROL PLAN - STAGE 1		
TCS-02	TEMPORARY TRAFFIC SIGNAL CONTROL PLAN - STAGE 2		
TCS-03	TEMPORARY TRAFFIC SIGNAL CONTROL PLAN - STAGE 3		
TR-GS_01	SIGN FACE SHEET ALUMINUM (X) R-SERIES TYPICAL SIGN DETAILS		

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY:



VN ENGINEERS, INC.
116 WASHINGTON AVE.
NORTH HAVEN, CT 06473
(203) 234-7862




Digitally signed
by Robert Gomez
Date: 2022.09.28
14:52:39-04'00'

FDP SUBMISSION
SEPTEMBER 28, 2022

DESIGNER/DRAFTER: RL CHECKED BY: CL

SIGNATURE/BLOCK:



VN ENGINEERS INC.
Traffic • Transportation • Planning
116 WASHINGTON AVE.
NORTH HAVEN, CT 06473
(203) 234-7862



TOWN OF WILTON



PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: TRAFFIC INDEX OF DRAWINGS

DRAWING NO.
TR-01
SHEET NO.
04-01

GENERAL NOTES

- SEE SPECIAL PROVISION SECTION 1.08 - PROSECUTION AND PROGRESS AND ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC FOR CONSTRUCTION STAGING REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ON-SITE APPROACH SIGNING FOR DURATION OF THIS PROJECT.
- ANY EXISTING SIGNING DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE TOWN.
- ALL CONSTRUCTION SIGNS ARE TO BE PAID FOR UNDER ITEM NO. 1220027 - CONSTRUCTION SIGNS.
- BARRICADE WARNING LIGHTS - HIGH INTENSITY SHALL BE MOUNTED ON ALL DIAMOND SHAPED POST-MOUNTED CONSTRUCTION SIGNS AND PAYABLE UNDER ITEM NO. 0976002 - BARRICADE WARNING LIGHTS - HIGH INTENSITY.
- THE CONTRACTOR SHALL NOTIFY THE CTDOT DISTRICT 3 ENGINEER, THE TOWN OF WILTON, AND ALL EMERGENCY SERVICES AT LEAST TWO WEEKS PRIOR TO IMPLEMENTING A ONE LANE ROAD AND SHIFTING OF TRAFFIC ONTO TEMPORARY BRIDGE.
- THE CORRECT SEQUENCE AND SPACING OF SIGNS MUST BE MAINTAINED AT ALL TIMES, IN ACCORDANCE WITH THE M.U.T.C.D.
- PLASTIC PAVEMENT MARKING TAPE SHALL BE PAID FOR UNDER ITEM NO. 1212001 - TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 4" YELLOW, ITEM NO. 1212002 - TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 4" WHITE, AND ITEM NO. 1212010 - TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 12" WHITE
- EXACT LOCATION OF SIGNS TO BE VERIFIED BY THE ENGINEER IN THE FIELD.
- WHEN EXISTING SIGNAGE CONFLICTS WITH THE PROPOSED TRAFFIC PATTERN SHOWN IN THE M&PT PLANS, THE CONTRACTOR SHALL COVER OR REMOVE THOSE CONFLICTING SIGNS, THE RELOCATION OF EXISTING SIGNS DURING CONSTRUCTION WILL BE PAID FOR UNDER ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.
- TEMPORARY TRAFFIC BARRIER REQUIRES DE-7 DELINEATORS.
- THE CONTRACTOR SHALL SELECT AN APPROVED SAND BARREL SYSTEM FROM THE CTDOT QUALIFIED PRODUCT LIST (QPL). THE CONTRACTOR SHALL INSTALL THE BARREL ARRAY FOR THE DESIGN SPEED OF ≤ 30 MPH, AS RECOMMENDED BY THE MANUFACTURER.
- COORDINATE THE INSTALLATION OF TEMPORARY WOOD SPAN POLES AND GUYING REQUIREMENTS WITH EXISTING AND PROPOSED OVERHEAD UTILITIES LINES AND POLES TO FACILITATE MAINTAINING THE SPANWIRE DURING CONSTRUCTION.
- INSTALL GUY WIRE AT EACH TEMPORARY WOOD SPAN POLE LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR THE GUYING OF ALL TEMPORARY WOOD POLES.
- THE CONTRACTOR SHALL CONTACT EVERSOURCE ENERGY TO COORDINATE THE INSTALLATION OF TEMPORARY ELECTRICAL SERVICE. SEE NOTICE TO CONTRACTOR, SECTION 1.07 - LEGAL RELATIONS AND RESPONSABILITIES, FOR CONTACT INFORMATION.
- POWER FOR TEMPORARY LUMINAIRES SHALL BE ELECTRICALLY FED FROM A 20 AMP SINGLE POLE CIRCUIT BREAKER LOCATED IN THE TEMPORARY SIGNAL CABINET. SEE TEMPORARY SIGNALIZATION FOR ADDITIONAL INFORMATION. POWER WILL BE PAID UNDER ITEM #1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1).
- TRAFFIC SIGNAL HEADS SHALL BE 16' TO 18' ABOVE THE ROADWAY AND SHALL BE SPACED BETWEEN 8' AND 20' APART ON THE SPAN. THE TEMPORARY WOOD SPAN POLE SHOULD BE SIZED TO ALLOW FOR THIS REQUIREMENT TO BE MET.
- TEMPORARY VEHICLE DETECTION SHALL BE INSTALLED AND SHALL BE PAID FOR UNDER ITEM #1118051A- TEMPORARY SIGNALIZATION (SITE NO. 1). SEE SPECIAL PROVISION FOR TEMPORARY VEHICLE DETECTION REQUIREMENTS.
- PROPOSED TEMPORARY SIGNALIZATION TO BE INSTALLED PRIOR TO STAGE 1 USING DAILY ALTERNATING 1-WAY STOP CONTROLLED LANE CLOSURES IWTH TRAFFIC PERSON AS NEEDED. COVER TRAFFIC SIGNAL HEADS UNTIL FUTURE USE IN STAGE 1. SEE TEMPORARY SIGNALIZATION PLANS FOR ADDITIONAL INFORMATION.
- SEE HIGHWAY AND DRAINAGE PLANS FOR REQUIRED DRAINAGE WORK AND COORDINATE THE INSTALLATION WITH TEMPORARY SIGNALIZATION WORK.
- THE CONTRACTOR SHALL NOT USE LOOP DETECTION FOR TEMPORARY VEHICLE DETECTION. CONTRACTOR SHALL UTILITY NON-DESTRUCTIVE METHODS SUCH AS VIDEO OR RADAR.
- PROPOSED DRAINAGE TO BE INSTALLED PRIOR TO STAGE 1 USING DAILY ALTERNATING 1-WAY STOP CONTROLLED LANE CLOSURES WITH TRAFFIC PERSON AS NEEDED. SEE HIGHWAY PLANS FOR ADDITIONAL INFORMATION.

LEGEND:

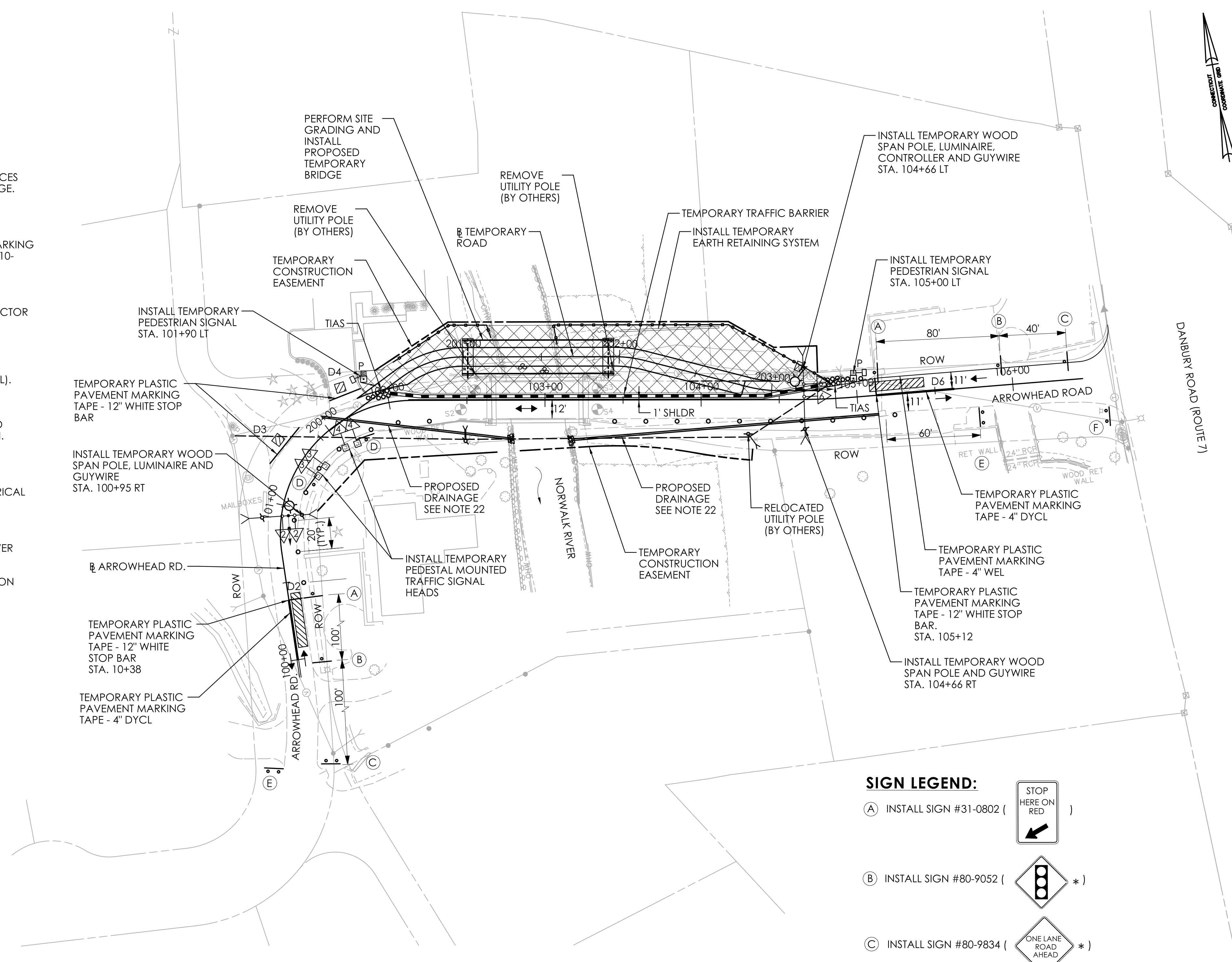
- TEMPORARY TRAFFIC BARRIER
- WORK AREA
- TRAFFIC FLOW
- INERTIAL SYSTEM (SANDBARRELS) IMPACT VELOCITY ≤ 30 MPH (TIAS)
- TEMPORARY LUMINAIRE AND BRACKET (150 WATT HPS) MOUNTED TO TEMPORARY TRAFFIC SIGNAL SPAN POLE
- TRAFFIC DRUM
- HIGH INTENSITY BARRICADE WARNING LIGHT
- SEDIMENT CONTROL SYSTEM
- DETECTION ZONE. SEE NOTE 21
- TRAFFIC SIGNAL FACE

PAVEMENT MARKING ABBREVIATIONS:

DYCL - DOUBLE YELLOW CENTER LINE
WEL - WHITE EDGE LINE

SIGN LEGEND:

- (A) INSTALL SIGN #31-0802 ()
- (B) INSTALL SIGN #80-9052 () *
- (C) INSTALL SIGN #80-9834 () *
- (D) INSTALL SIGN #31-0830 ()
- (E) INSTALL SIGN #80-9611 ()
- (F) INSTALL SIGN #80-9928 ()



REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: RL CHECKED BY: CL
 HORIZONTAL SCALE 1" = 40'
 LASTED SAVED BY: Regina Lopez FILE NAME: I:\Projects\222-103 Wilton 161-143\Traffic\Contract_Plans\TR_CP_161_143_STAGE1.dgn
 PLOTTED DATE: 9/27/2022

SIGNATURE/BLOCK:

TOWN OF WILTON

PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - STAGE 1


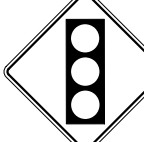




FDP SUBMISSION
 SEPTEMBER 28, 2022

DRAWING NO. MPT-01
 SHEET NO. 04-02



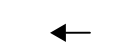








NOTES:

1. SEE MPT-01 FOR GENERAL NOTES.
2. REFER TO THE PLANS ON THIS SHEET FOR THE GENERAL LOCATION OF "PINNED" BARRIER.
3. 1' MINIMUM SHOULDER ALONG THE TEMPORARY ROADWAY. REFER TO THE HIGHWAY SUBSET FOR THE TEMPORARY ROADWAY TYPICAL SECTIONS.
4. TEMPORARY TRAFFIC BARRIER AND CONSTRUCTION BARRICADES MOVED TO ALLOW ACCESS TO THE BRIDGE SITE SHALL BE REPLACED AT THE END OF EACH DAY, WORK SHIFT OR WHEN THE CONTRACTOR IS NOT ACTIVELY WORKING.

SIGN LEGEND:

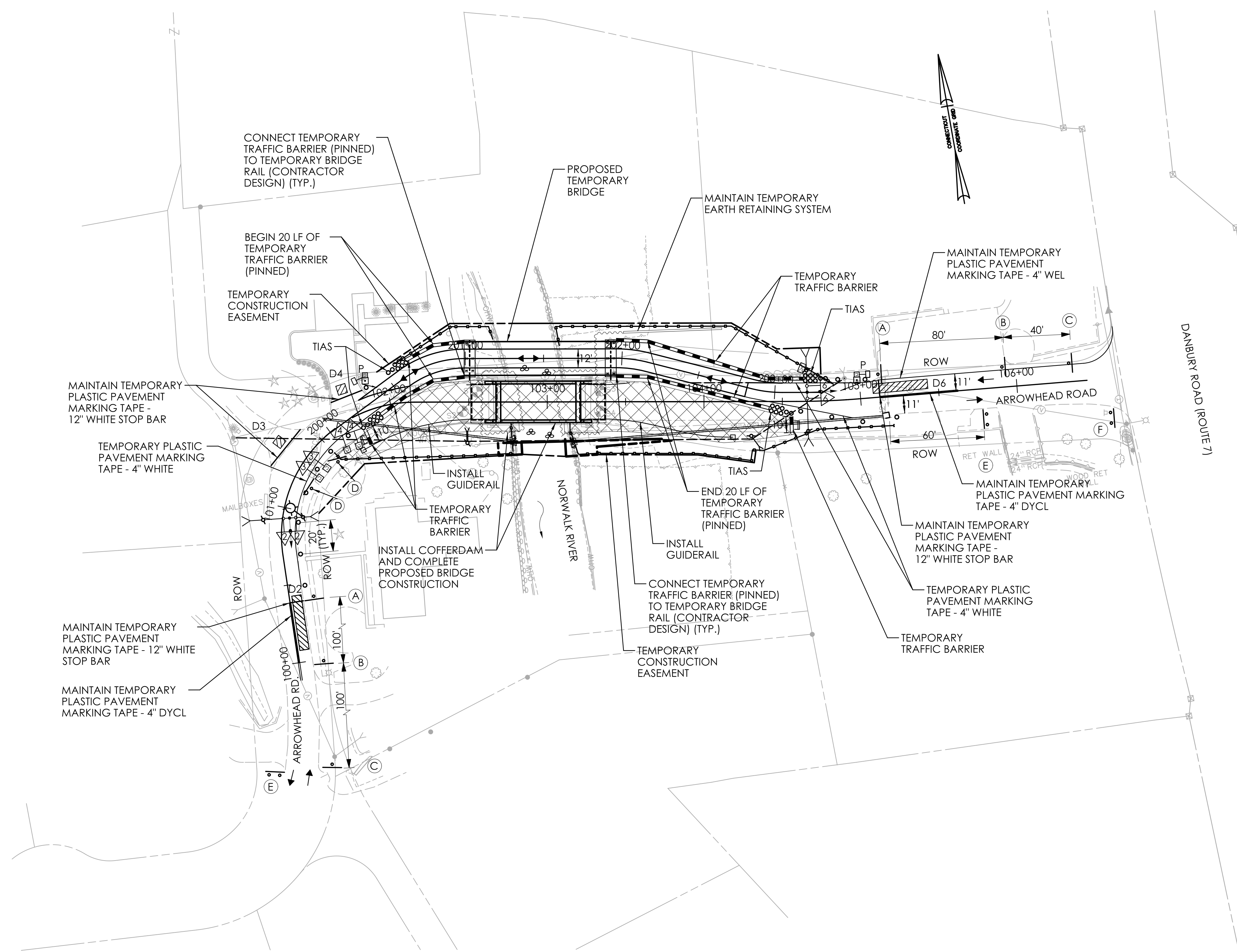
- (A) MAINTAIN SIGN #31-0802 ()
- (B) MAINTAIN SIGN #80-9052 ( *)
- (C) MAINTAIN SIGN #80-9834 ( *)
- (D) MAINTAIN SIGN #31-0830 ()
- (E) MAINTAIN SIGN #80-9611 ()
- (F) MAINTAIN SIGN #80-9928 ()

LEGEND:

-  TEMPORARY TRAFFIC BARRIER. SEE NOTE 2
-  WORK AREA
-  TRAFFIC FLOW
-  INERTIAL SYSTEM (SANDBARRELS) IMPACT VELOCITY ≤ 30 MPH (TIAS)
-  TEMPORARY LUMINAIRE AND BRACKET (150 WATT HPS) MOUNTED TO TEMPORARY TRAFFIC SIGNAL SPAN POLE
-  TRAFFIC DRUM
-  * HIGH INTENSITY BARRICADE WARNING LIGHT
-  CONSTRUCTION BARRICADE - TYPE III
-  SEDIMENT CONTROL SYSTEM
-  DETECTION ZONE
-  TRAFFIC SIGNAL FACE

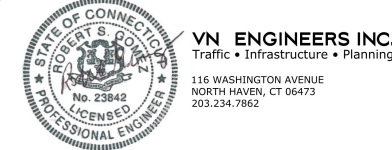
PAVEMENT MARKING ABBREVIATIONS:

DYCL - DOUBLE YELLOW CENTER LINE
WEL - WHITE EDGE LINE



REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: RL CHECKED BY: CL
 HORIZONTAL SCALE 1" = 40'
 LASTED SAVED BY: Regina Lopez FILE NAME: I:\Projects\222-103 Wilton 161-143\Traffic\Contract_Plans\TR_CP_161_143_STAGE2.dgn
 PLOTTED DATE: 9/27/2022

SIGNATURE/BLOCK:
 VN ENGINEERS INC.
 Traffic • Infrastructure • Planning

 TOWN OF WILTON


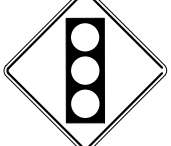


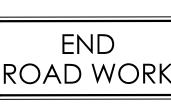
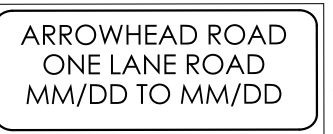
PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - STAGE 2

FDP SUBMISSION
 SEPTEMBER 28, 2022
 DRAWING NO. MPT-02
 SHEET NO. 04-03



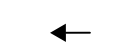






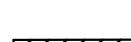
NOTE

1. SEE MPT-01 FOR GENERAL NOTES.

SIGN LEGEND:

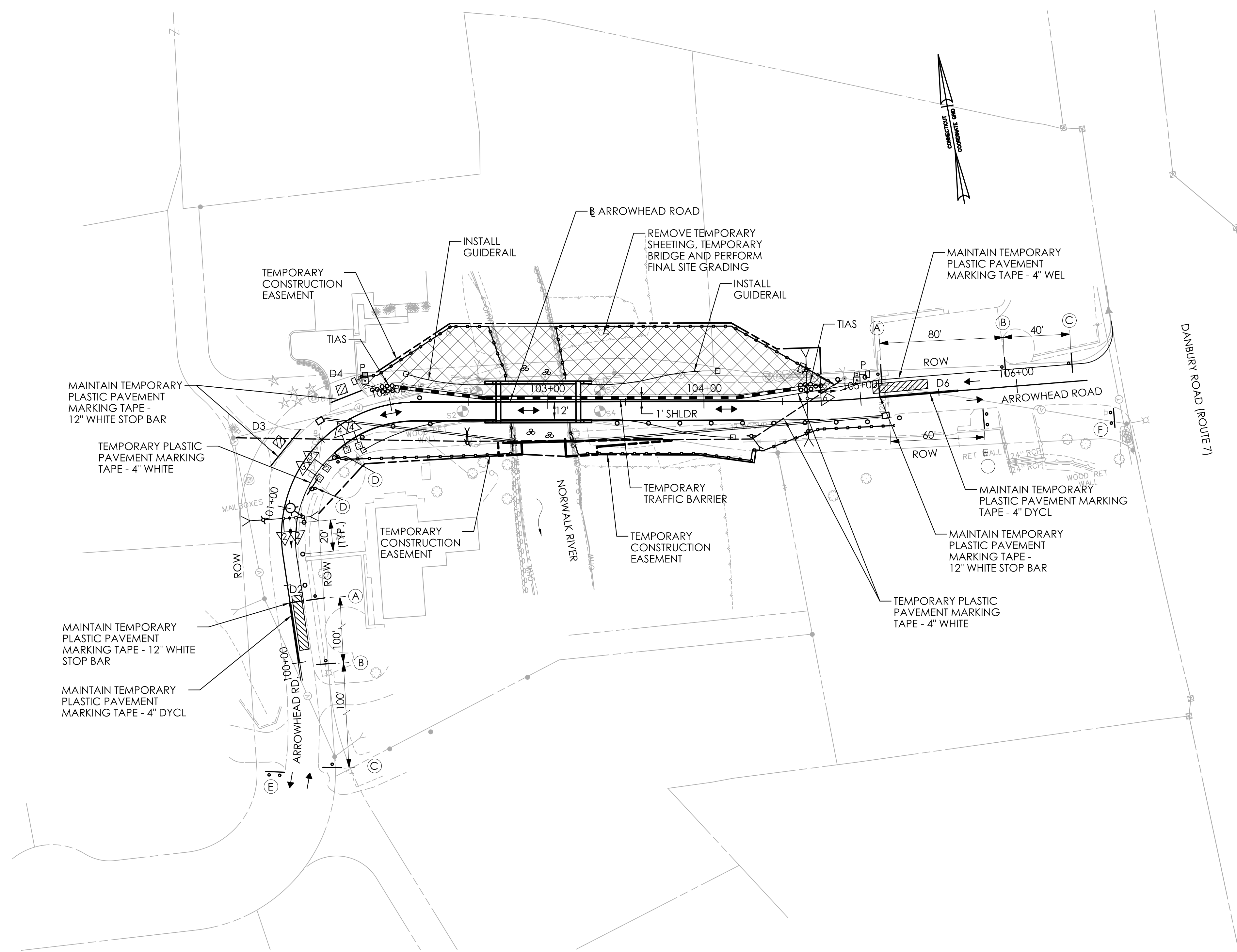
- (A) MAINTAIN SIGN #31-0802 ()
- (B) MAINTAIN SIGN #80-9052 ( *)
- (C) MAINTAIN SIGN #80-9834 ( *)
- (D) MAINTAIN SIGN #31-0830 ()
- (E) MAINTAIN SIGN #80-9611 ()
- (F) MAINTAIN SIGN #80-9928 ()

LEGEND:

-  TEMPORARY TRAFFIC BARRIER.
-  WORK AREA
-  TRAFFIC FLOW
-  INERTIAL SYSTEM (SANDBARRELS) IMPACT VELOCITY ≤ 30 MPH (TIAS)
-  TEMPORARY LUMINAIRE AND BRACKET (150 WATT HPS) MOUNTED TO TEMPORARY TRAFFIC SIGNAL SPAN POLE
-  TRAFFIC DRUM
-  * HIGH INTENSITY BARRICADE WARNING LIGHT
-  SEDIMENT CONTROL SYSTEM
-  DETECTION ZONE
-  TRAFFIC SIGNAL FACE

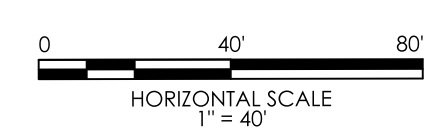
PAVEMENT MARKING ABBREVIATIONS:


DYCL - DOUBLE YELLOW CENTER LINE
WEL - WHITE EDGE LINE



REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: RL CHECKED BY: CL
 LASTED SAVED BY: Regina Lopez FILE NAME: I:\Projects\222-103 Wilton 161-143\Traffic\Contract_Plans\TR_CP_161_143_STAGE3.dgn
 PLOTTED DATE: 9/27/2022



SIGNATURE/BLOCK:  VN ENGINEERS INC.
 Traffic • Infrastructure • Planning
 116 WASHINGTON AVENUE
 SUITE 1000, CT 06472
 203.261.7662



PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - STAGE 3

FDP SUBMISSION
 SEPTEMBER 28, 2022

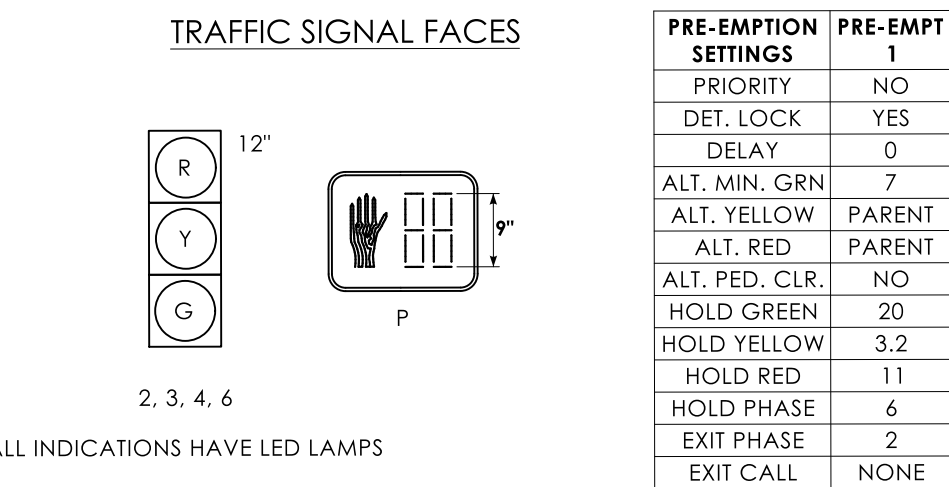
DRAWING NO. MPT-03
 SHEET NO. 04-04

		MOVEMENT DIAGRAM																										
NTOR		PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6 PRE-EMPT 1			PHASE 7			PHASE 8			PHASE 9		
2	R	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
3	R				R	Y	R	R	Y	R	R	Y	R	R	Y	R	R	Y	R	R	Y	R	R	Y	R	R	Y	R
4	R				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
6	R				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
P	OFF																											

INTERVALS	PHASE 1		PHASE 2		PHASE 3		PHASE 4		PHASE 5		PHASE 6 PRE-EMPT 1		PHASE 7		PHASE 8		PHASE 9	
	MIN GRN																	
WALK																		
PED CLR																		
VEH EXT																		
MAX 1																		
MAX 2																		
YELLOW																		
RED																		
ADD INIT																		
MAX INIT																		
TBR																		
TTR																		
MIN GAP																		
MODE	OFF			NON-LOCK			LOCK			LOCK			NON-LOCK			OFF		OFF
INIT START																		

IDENT	SIZE (WXI)	TYPE	MODE	SYSTEM LOC	COORDINATION TYPE: NONE				CYCLE	OFFSET
					MASTER	FUNCTION	PROGRAM	DAYS		
D2	6'x35'	-	PRESENCE		FLASH	NONE		DAILY		
D3	6'x6'	-	PRESENCE		MAX 1	ALL TIMES		DAILY		
D4	6'x6'	-	PRESENCE							
D6	6'x35'	-	PRESENCE							

TECHNICAL NOTES		OFFICE RECORD			
STANDARD OVERLAP SKIP FEATURES APPLY		REV #	TIR #	SM #	SIGNAL REVISED:
THE TRAFFIC CONTROLLER SHALL BE PROGRAMMED TO REST IN RED WHEN NO SERVICE CALLS ARE PRESENT.					



NOTES:

SEE M&PT NOTES AND LEGEND FOR ADDITIONAL INFORMATION.

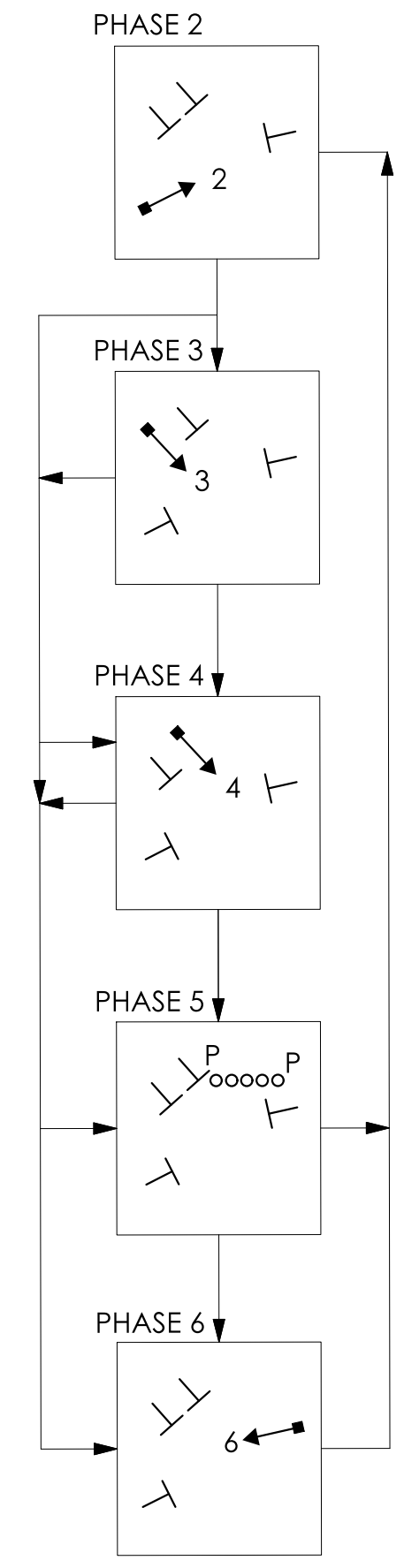
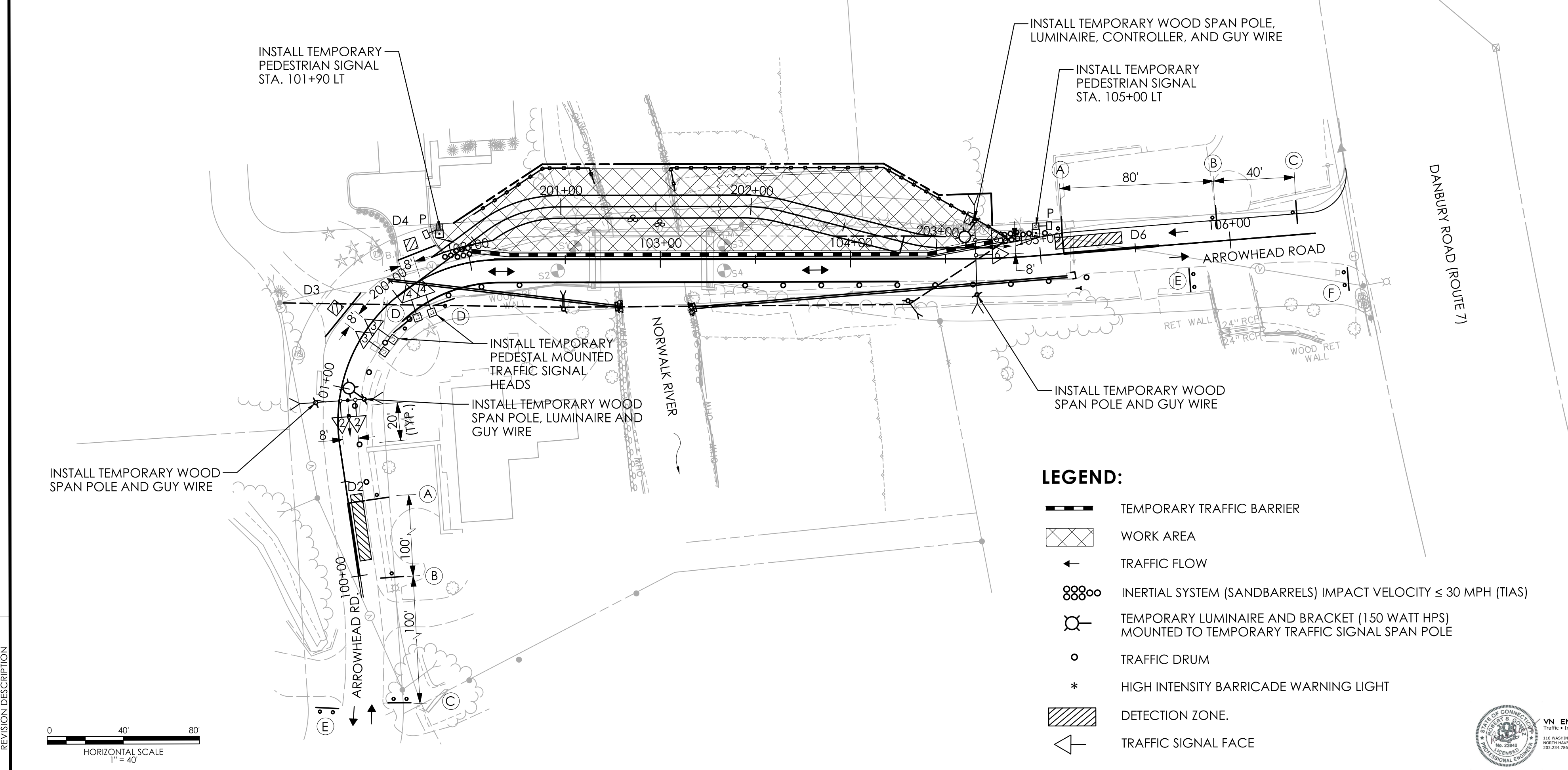
SEE M&PT PLANS FOR ADDITIONAL SIGNING REQUIREMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIGNALIZATION AS REQUIRED WITHIN THE PROJECT LIMITS DURING STAGE 1, 2 AND STAGE 3 AS DESCRIBED IN THE SPECIAL PROVISIONS, ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1). THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING SIGNAL EQUIPMENT AND ALL NECESSARY HARDWARE NEEDED THROUGHOUT THE DURATION OF CONSTRUCTION.

TEMPORARY SIGNAL SHALL NOT RUN ON FIXED TIMES.

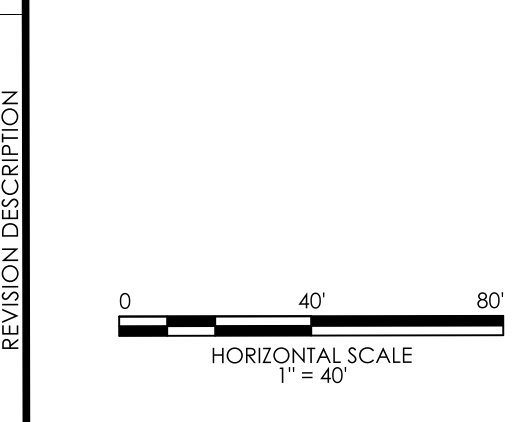
CONTRACTOR TO PROVIDE TEMPORARY DETECTION AT THE LOCATION SHOWN ON THE PLAN AND SHALL BE PAID FOR UNDER ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1).

ENSURE THAT A MINIMUM 16' OVERHEAD CLEARANCE FOR THE TRAFFIC SIGNAL HEADS IS MAINTAINED PER THE DEPARTMENT'S TRAFFIC CONTROL MANUAL.



- SIGN LEGEND:**
- (A) MAINTAIN SIGN #31-0802 (STOP HERE ON RED)
 - (B) MAINTAIN SIGN #80-9052 ()
 - (C) MAINTAIN SIGN #80-9834 (ONE LANE ROAD AHEAD)
 - (D) MAINTAIN SIGN #31-0830 (NO TURN ON RED)
 - (E) MAINTAIN SIGN #80-9611 (END ROAD WORK)
 - (F) MAINTAIN SIGN #80-9928 (ARROWHEAD ROAD ONE LANE ROAD MM/DD TO MM/DD)

- EMERGENCY PRE-EMPTION NOTES:**
- INSTALL AUXILIARY EQUIPMENT CABINET ON WEST SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET. CABINET AND PRE-EMPTION EQUIPMENT TO BE PAID FOR UNDER ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1).
 - PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE AUXILIARY EQUIPMENT CABINET.
 - CONTRACTOR TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.



- LEGEND:**
- TEMPORARY TRAFFIC BARRIER
 - WORK AREA
 - TRAFFIC FLOW
 - INERTIAL SYSTEM (SANDBARRELS) IMPACT VELOCITY ≤ 30 MPH (TIAS)
 - TEMPORARY LUMINAIRE AND BRACKET (150 WATT HPS) MOUNTED TO TEMPORARY TRAFFIC SIGNAL SPAN POLE
 - TRAFFIC DRUM
 - HIGH INTENSITY BARRICADE WARNING LIGHT
 - DETECTION ZONE.
 - TRAFFIC SIGNAL FACE

ENGINEER	TRAFFIC	DATE	ELECTRICAL	DATE	REV #	INTERSECTION #
DRAWN BY						
CHECKED BY						
SUBMITTED BY						ENERGY BY CONTRACTOR ADDRESS #
APPROVED BY						MAINT LEVEL SERVICE POLE
APPROVED DATE						METERED SERVICE

REVISION DESCRIPTION

REV.	DATE	DESCRIPTION

LEGEND:

- R, Y, G RED, YEL, GRN
- FL. FLASHING
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/ PED. CLR
- D.W. DON'T WALK
- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- PEDESTAL MOUNTING
- PEDESTRIAN PUSH BUTTON & SIGN
- DIRECTIONAL ARW. FOR PUSH BUTTON
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- VIDEO DETECTION ZONE
- AUXILIARY TERMINATION CABINET
- AUXILIARY EQUIPMENT CABINET
- PROPOSED CONTROLLER
- EXISTING CONTROLLER
- LOOP DETECTOR
- SD SYSTEM DETECTOR
- MAGNETIC DETECTOR
- OPTICAL DETECTOR
- VIDEO DETECTOR
- AUDIO DETECTOR
- VIDEO CAMERA CABLE
- CABLE CLOSURE
- WIRELESS SENSOR
- WIRELESS RECEIVER
- WIRELESS TRANSMITTER
- GUY WIRE
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

PROJECT NUMBER: 0161-0143
 REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: TEMPORARY TRAFFIC SIGNAL CONTROL PLAN - STAGE 1

TOWN OF WILTON

LASTED SAVED BY: Regina Lopez FILE NAME: I:\Projects\222-103 Wilton 161-143\Traffic\Contract_Plan\TR_CP_161_143_Temp_Signal_STAGE1.dgn
 PLOTTED DATE: 9/27/2022

FDP SUBMISSION
SEPTEMBER 28, 2022

DRAWING NO: TCS-01
 SHEET NO: 04-05

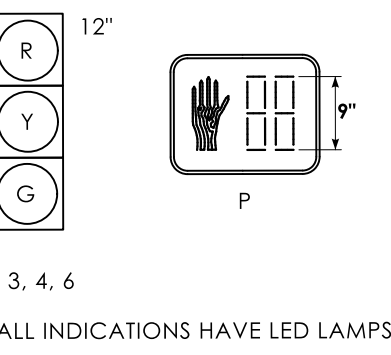
NTOR		PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6 PRE-EMPT 1			PHASE 7			PHASE 8			PHASE 9		
2	R				G	Y	R	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
3	R				R	R	R	R	Y	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4	R				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
6	R				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
P	OFF																											

INTERVALS	MIN GRN	WALK	PED CLR	VEH EXT	MAX 1	MAX 2	YELLOW	RED	ADD INIT	MAX INIT	TBR	TTR	MIN GAP	MODE	INIT START
														OFF	
							3.2	10						NON-LOCK	
							3.2	8						LOCK	
							3.2	7						LOCK	
							4	0						LOCK	
							3.2	12						NON-LOCK	
														OFF	
														OFF	
														OFF	

DETECTORS		SYSTEM LOC		COORDINATION TYPE: NONE		PROGRAM		CYCLE		OFFSET	
IDENT	SIZE (WXI)	TYPE	MODE	MASTER	FUNCTION	TIME	DAYS	SEC	%		%
D2	6'x35'	-	PRESENCE		FLASH	NONE	DAILY				
D3	6'x6'	-	PRESENCE		FLASH	NONE	DAILY				
D4	6'x6'	-	PRESENCE		MAX 1	ALL TIMES	DAILY				
D6	6'x35'	-	PRESENCE								

TECHNICAL NOTES		OFFICE RECORD			
STANDARD OVERLAP SKIP FEATURES APPLY		REV #	TIR #	SM #	SIGNAL REVISED:
THE TRAFFIC CONTROLLER SHALL BE PROGRAMMED TO REST IN RED WHEN NO SERVICE CALLS ARE PRESENT.					

TRAFFIC SIGNAL FACES



PRE-EMPTION SETTINGS	PRE-EMPT
PRIORITY	NO
DET. LOCK	YES
DELAY	0
ALT. MIN. GRN	7
ALT. YELLOW	PARENT
ALT. RED	PARENT
ALT. PED. CLR.	NO
HOLD GREEN	20
HOLD YELLOW	3.2
HOLD RED	12
HOLD PHASE	6
EXIT PHASE	2
EXIT CALL	NONE

NOTES:

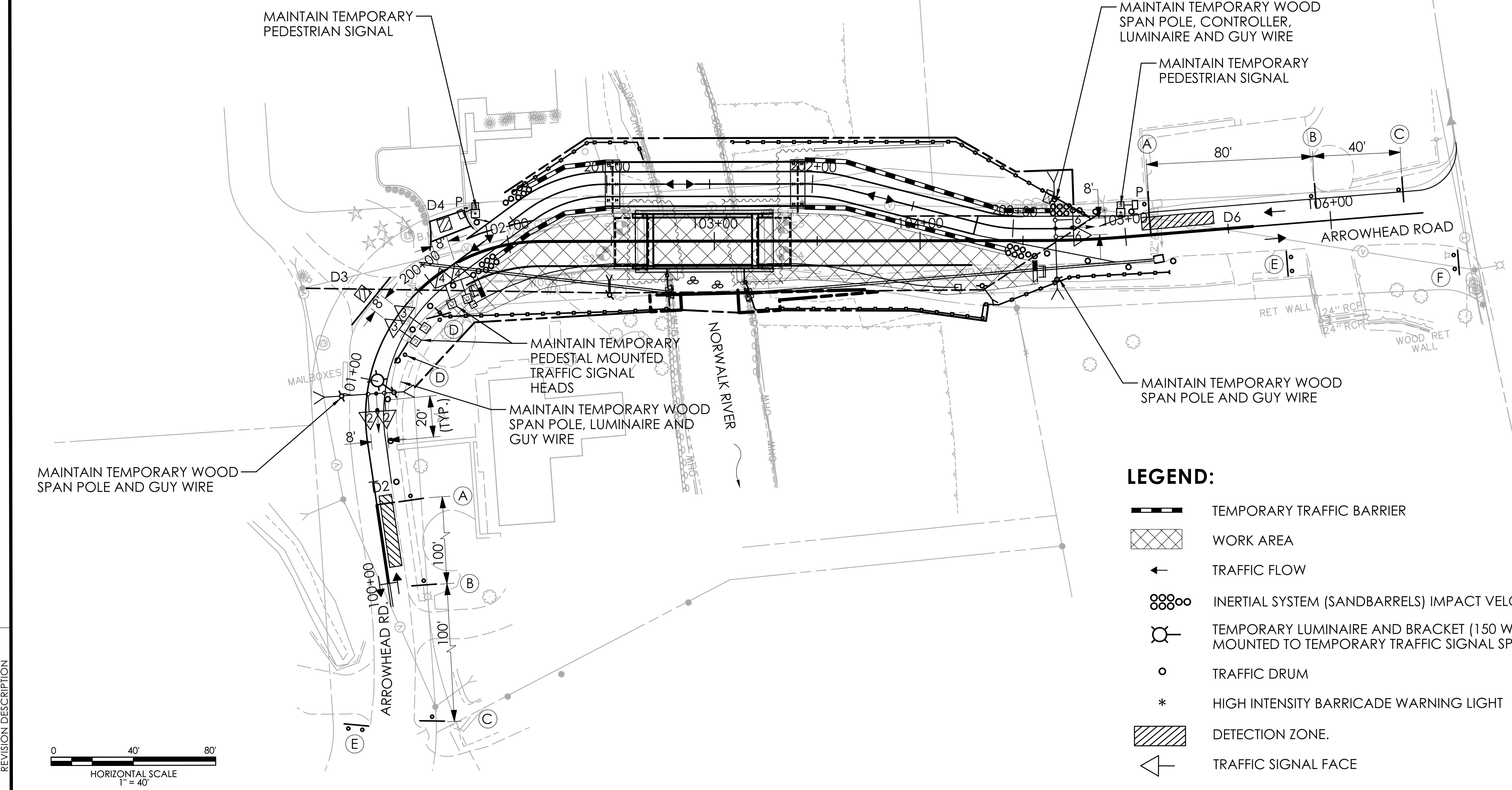
- SEE M&PT NOTES AND LEGEND FOR ADDITIONAL INFORMATION.
- SEE M&PT PLANS FOR ADDITIONAL SIGNING REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIGNALIZATION AS REQUIRED WITHIN THE PROJECT LIMITS DURING STAGE 1, 2 AND STAGE 3 AS DESCRIBED IN THE SPECIAL PROVISIONS, ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1). THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING SIGNAL EQUIPMENT AND ALL NECESSARY HARDWARE NEEDED THROUGHOUT THE DURATION OF CONSTRUCTION.
- TEMPORARY SIGNAL SHALL NOT RUN ON FIXED TIMES.
- CONTRACTOR TO PROVIDE TEMPORARY DETECTION AT THE LOCATION SHOWN ON THE PLAN AND SHALL BE PAID FOR UNDER ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1).
- ENSURE THAT A MINIMUM 16' OVERHEAD CLEARANCE FOR THE TRAFFIC SIGNAL HEADS IS MAINTAINED PER THE DEPARTMENT'S TRAFFIC CONTROL MANUAL.

EMERGENCY PRE-EMPTION NOTES:

- MAINTAIN AUXILIARY EQUIPMENT CABINET ON WEST SIDE OF CONTROLLER CABINET. MAINTAIN PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET. CABINET AND PRE-EMPTION EQUIPMENT TO BE PAID FOR UNDER ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1).
- PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE AUXILIARY EQUIPMENT CABINET.
- CONTRACTOR TO MAINTAIN A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.

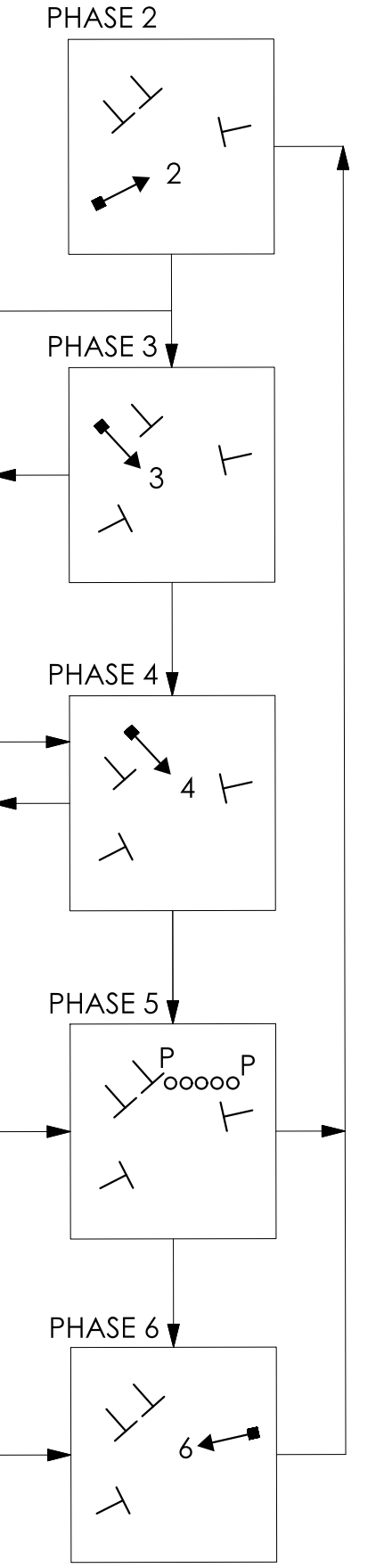
SIGN LEGEND:

- (A) MAINTAIN SIGN #31-0802 (STOP HERE ON RED)
- (B) MAINTAIN SIGN #80-9052 () *
- (C) MAINTAIN SIGN #80-9834 (ONE LANE ROAD AHEAD) *
- (D) MAINTAIN SIGN #31-0830 (NO TURN ON RED)
- (E) MAINTAIN SIGN #80-9611 (END ROAD WORK)
- (F) MAINTAIN SIGN #80-9928 (ARROWHEAD ROAD ONE LANE ROAD MM/DD TO MM/DD)



LEGEND:

- TEMPORARY TRAFFIC BARRIER
- WORK AREA
- TRAFFIC FLOW
- INERTIAL SYSTEM (SANDBARRELS) IMPACT VELOCITY ≤ 30 MPH (TIAS)
- TEMPORARY LUMINAIRE AND BRACKET (150 WATT HPS) MOUNTED TO TEMPORARY TRAFFIC SIGNAL SPAN POLE
- TRAFFIC DRUM
- HIGH INTENSITY BARRICADE WARNING LIGHT
- DETECTION ZONE.
- TRAFFIC SIGNAL FACE



ENGINEER	TRAFFIC	DATE	ELECTRICAL	DATE	REV #	INTERSECTION #
DRAWN BY						
CHECKED BY						
SUBMITTED BY					ENERGY BY CONTRACTOR	ADDRESS #
APPROVED BY					MAINT LEVEL	SERVICE POLE
APPROVED DATE						METERED SERVICE

REVISION DESCRIPTION

LEGEND:

- R, Y, G RED, YEL, GRN
- FL. FLASHING
- D.W. DON'T WALK
- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- PEDESTAL MOUNTING
- PEDESTRIAN PUSH BUTTON & SIGN
- PROPOSED CONTROLLER
- EXISTING CONTROLLER
- PEDESTRIAN SIGNAL FACE
- EXISTING SIGNAL FACE
- VIDEO DETECTION ZONE
- AUXILIARY TERMINATION CABINET
- AUXILIARY EQUIPMENT CABINET
- PROPOSED LOOP DETECTOR
- EXISTING LOOP DETECTOR
- SD SYSTEM DETECTOR
- MAGNETIC DETECTOR
- OPTICAL DETECTOR
- VIDEO DETECTOR
- AUDIO DETECTOR
- VIDEO CAMERA CABLE
- CABLE CLOSURE
- WIRELESS SENSOR
- WIRELESS RECEIVER
- WIRELESS TRANSMITTER
- GUY WIRE
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

PROJECT NUMBER: 0161-0143
 REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: TEMPORARY TRAFFIC SIGNAL CONTROL PLAN - STAGE 2

TOWN OF WILTON

LASTED SAVED BY: Regina Lopez FILE NAME: I:\Projects\222-103 Wilton 161-143\Traffic\Contract_Plans\TR_CP_161_143_Temp_Signal_STAGE2.dgn
 PLOTTED DATE: 9/27/2022

FDP SUBMISSION
 SEPTEMBER 28, 2022

DRAWING NO:
 TCS-02

SHEET NO.
 04-06

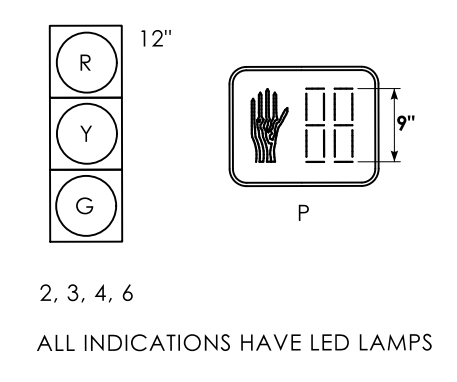
NTOR	PHASES																		
	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6 PRE-EMPT 1	PHASE 7	PHASE 8	PHASE 9										
2	R	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
3	R				R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R
4	R				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
6	R				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
P	OFF																		

INTERVALS	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PHASE 9
MIN GRN								
WALK	7	5	5	7	7			
PED CLR								
VEH EXT	3	3	3	3	3			
MAX 1	10	10	10	10	10			
MAX 2								
YELLOW	3.2	11	3.2	9	3.2	8		
RED								
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	OFF	NON-LOCK	LOCK	LOCK	LOCK	NON-LOCK	OFF	OFF
INIT START								

IDENT	DETECTORS			SYSTEM LOC	COORDINATION TYPE: NONE				CYCLE	OFFSET
	SIZE (WX)	TYPE	MODE		MASTER	FUNCTION	PROGRAM	DAYS		
D2	6'x35'	-	PRESENCE		FLASH	NONE	DAILY			
D3	6'x6'	-	PRESENCE		MAX 1	ALL TIMES	DAILY			
D4	6'x6'	-	PRESENCE							
D6	6'x35'	-	PRESENCE							

TECHNICAL NOTES		OFFICE RECORD	
STANDARD OVERLAP SKIP FEATURES APPLY		REV #	TIR # SM #
THE TRAFFIC CONTROLLER SHALL BE PROGRAMMED TO REST IN RED WHEN NO SERVICE CALLS ARE PRESENT.		SIGNAL REVISED:	

TRAFFIC SIGNAL FACES



PRE-EMPTION SETTINGS	PRE-EMPT
PRIORITY	NO
DET. LOCK	YES
DELAY	0
ALT. MIN. GRN	7
ALT. YELLOW	PARENT
ALT. RED	PARENT
ALT. PED. CLR.	NO
HOLD GREEN	3.2
HOLD YELLOW	3.2
HOLD RED	1.1
HOLD PHASE	6
EXIT PHASE	2
EXIT CALL	NONE

NOTES:

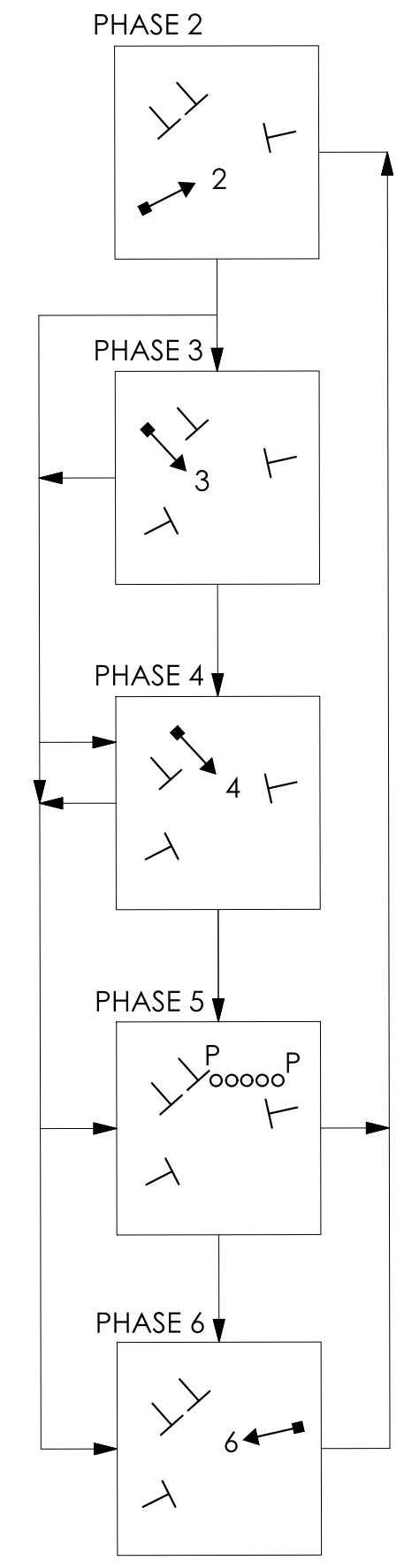
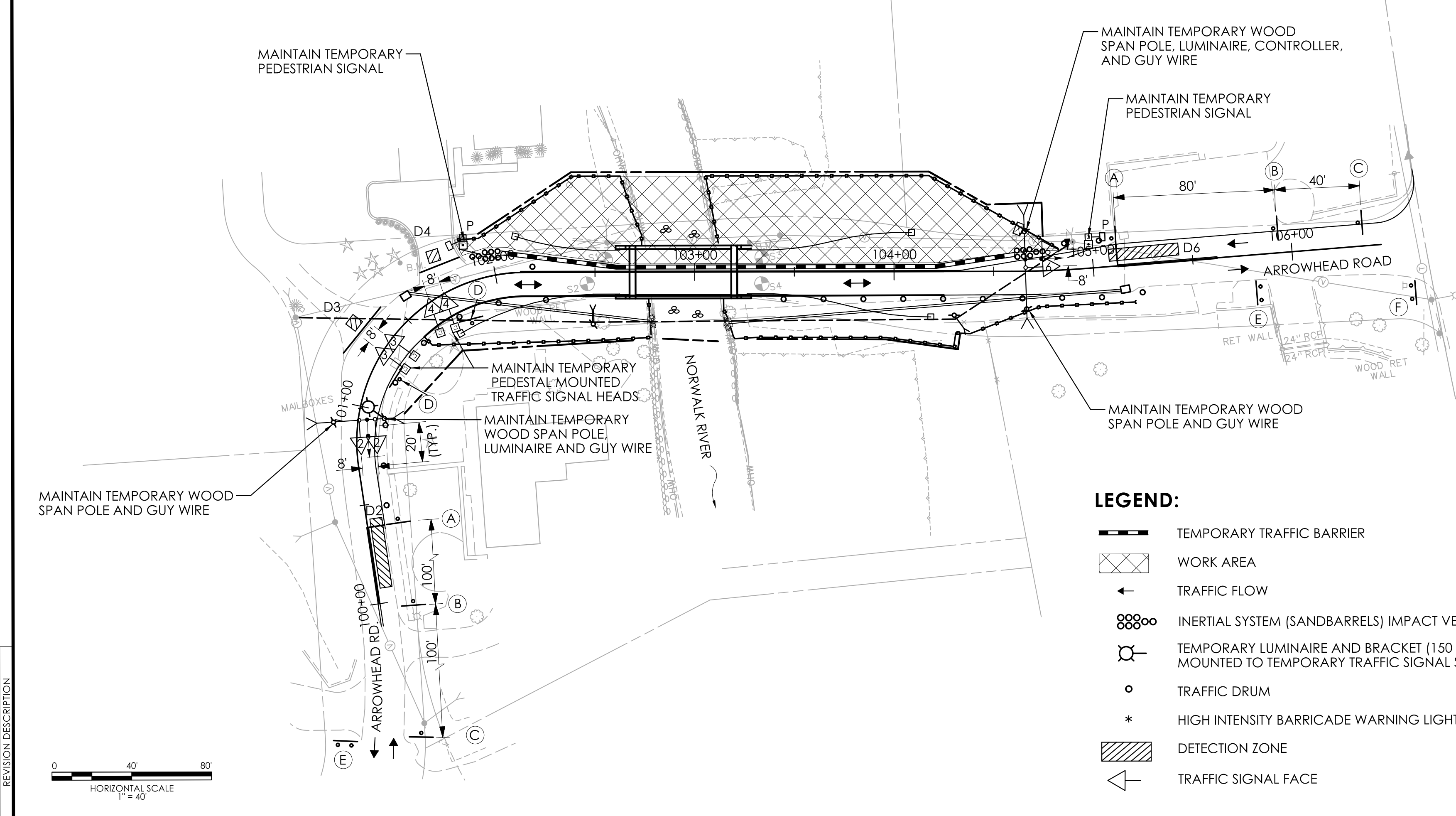
- SEE M&PT NOTES AND LEGEND FOR ADDITIONAL INFORMATION.
- SEE M&PT PLANS FOR ADDITIONAL SIGNING REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIGNALIZATION AS REQUIRED WITHIN THE PROJECT LIMITS DURING STAGE 1, 2 AND STAGE 3 AS DESCRIBED IN THE SPECIAL PROVISIONS, ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1). THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING SIGNAL EQUIPMENT AND ALL NECESSARY HARDWARE NEEDED THROUGHOUT THE DURATION OF CONSTRUCTION.
- TEMPORARY SIGNAL SHALL NOT RUN ON FIXED TIMES.
- CONTRACTOR TO PROVIDE TEMPORARY DETECTION AT THE LOCATION SHOWN ON THE PLAN AND SHALL BE PAID FOR UNDER ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1).
- ENSURE THAT A MINIMUM 16' OVERHEAD CLEARANCE FOR THE TRAFFIC SIGNAL HEADS IS MAINTAINED PER THE DEPARTMENT'S TRAFFIC CONTROL MANUAL.

EMERGENCY PRE-EMPTION NOTES:

- MAINTAIN AUXILIARY EQUIPMENT CABINET ON WEST SIDE OF CONTROLLER CABINET. MAINTAIN PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET. CABINET AND PRE-EMPTION EQUIPMENT TO BE PAID FOR UNDER ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1).
- PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE AUXILIARY EQUIPMENT CABINET.
- CONTRACTOR TO MAINTAIN A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.

SIGN LEGEND:

- (A) MAINTAIN SIGN #31-0802 (STOP HERE ON RED)
- (B) MAINTAIN SIGN #80-9052 (3-dot sign)
- (C) MAINTAIN SIGN #80-9834 (ONE LANE ROAD AHEAD)
- (D) MAINTAIN SIGN #31-0830 (NO TURN ON RED)
- (E) MAINTAIN SIGN #80-9611 (END ROAD WORK)
- (F) MAINTAIN SIGN #80-9928 (ARROWHEAD ROAD ONE LANE ROAD MM/DD TO MM/DD)



LEGEND:

- TEMPORARY TRAFFIC BARRIER
- WORK AREA
- TRAFFIC FLOW
- INERTIAL SYSTEM (SANDBARRELS) IMPACT VELOCITY <= 30 MPH (TIAS)
- TEMPORARY LUMINAIRE AND BRACKET (150 WATT HPS) MOUNTED TO TEMPORARY TRAFFIC SIGNAL SPAN POLE
- TRAFFIC DRUM
- HIGH INTENSITY BARRICADE WARNING LIGHT
- DETECTION ZONE
- TRAFFIC SIGNAL FACE

ENGINEER	TRAFFIC	DATE	ELECTRICAL	DATE	REV #	INTERSECTION #

REV.	DATE	REVISION DESCRIPTION

LEGEND:

- R, Y, G RED, YEL, GRN
- FL. FLASHING
- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- PEDESTAL MOUNTING
- PEDESTRIAN PUSH BUTTON & SIGN
- DIRECTIONAL ARW. FOR PUSH BUTTON
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- VIDEO DETECTION ZONE
- AUXILIARY TERMINATION CABINET
- AUXILIARY EQUIPMENT CABINET
- PROPOSED CONTROLLER
- EXISTING CONTROLLER
- LOOP DETECTOR
- SD SYSTEM DETECTOR
- MAGNETIC DETECTOR
- OPTICAL DETECTOR
- VIDEO DETECTOR
- AUDIO DETECTOR
- VC VIDEO CAMERA CABLE
- CABLE CLOSURE
- WIRELESS SENSOR
- WIRELESS RECEIVER
- WIRELESS TRANSMITTER
- GUY WIRE
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

PROJECT NUMBER: 0161-0143
 REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: TEMPORARY TRAFFIC SIGNAL CONTROL PLAN - STAGE 3

YV ENGINEERS INC.
 166 WASHINGTON AVENUE
 06097
 203.274.7602

TOWN OF WILTON

DRAWING NO. TCS-03
 SHEET NO. 04-07

LASTED SAVED BY: Regina Lopez FILE NAME: I:\Projects\222-103 Wilton 161-143\Traffic\Contract_Plans\TR_CP_161_143_Temp_Signal_STAGE3.dgn
 PLOTTED DATE: 9/27/2022

FDP SUBMISSION
 SEPTEMBER 28, 2022

R6 - SERIES						R7 - SERIES						R8 - SERIES						R9 - SERIES						R10 - SERIES						R11 - SERIES						RETROREFLECTIVE STRIP																							
 R6-1 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 3.00 36x12 31-1188 1 .080 6.75 54x18 31-1189 2 .100						 R7-1 (R) → (L) ← (D) ↔ LEGEND - RED BACKGROUND - WHITE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 1.50 12x18 31-0630 1 .080						 R8-7 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 12.00 48x36 31-0670 2 .100						 R9-3 LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.25 18x18 31-1705 1 .080 4.00 24x24 31-1769 1 .080 6.25 30x30 31-1770 1 .080						 R10-6 31-0801 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 6.00 24x36 31-0801 1 .080						 R10-6 31-0802 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 6.00 24x36 31-0802 1 .080						 R10-11b AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 9.00 36x36 31-0816 2 .080						 R10-11c(CT) AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 7.50 30x36 31-0847 1 .080						 R11-1 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 5.00 24x30 31-1915 1 .080 20.00 48x60 31-1918 2 .100						 LEGEND - N/A BACKGROUND - RED AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 1.00 4x48 31-5003 1 .080 2.00 4x72 31-5004 1 .080					
 R6-1 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 3.00 36x12 31-1177 1 .080 6.75 54x18 31-1178 2 .100						 R7-2a VARIABLE TIMES (R) → (L) ← (D) ↔ LEGEND - RED BACKGROUND - WHITE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 1.50 12x18 31-0603 1 .080						 R9-3a AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 1.50 12x18 31-1702 1 .080						 R10-7 AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 5.00 24x30 31-0806 1 .080						 R10-10L AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 7.50 30x36 31-0852 1 .080						 R10-11a AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 7.50 30x36 31-0830 1 .080 12.00 36x48 31-0819 2 .100																													

NOTES:

1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R- SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".
2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
3. POSTS - SEE STANDARD SHEET TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
4. POSTS SHALL BE 4 LBS./FT.
5. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
6. FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114.01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."

COLORS:

BACKGROUND - WHITE - EXCEPT AS NOTED.
 LEGEND - BLACK - EXCEPT AS NOTED.
 ALL SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: R.L. CHECKED BY: R.G.

N.T.S.

SIGNATURE/BLOCK:

YN ENGINEERS INC.
 116 WASHINGTON AVENUE
 06457-0920, CT 06457
 203.224.7900

TOWN OF WILTON

PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: SIGN FACE SHEET ALUMINUM (X) R-SERIES TYPICAL SIGN DETAILS


FDP SUBMISSION
 SEPTEMBER 28, 2022

DRAWING NO. TR-GS_01
 SHEET NO. 04-08

**05 - STRUCTURE
INDEX OF DRAWINGS**

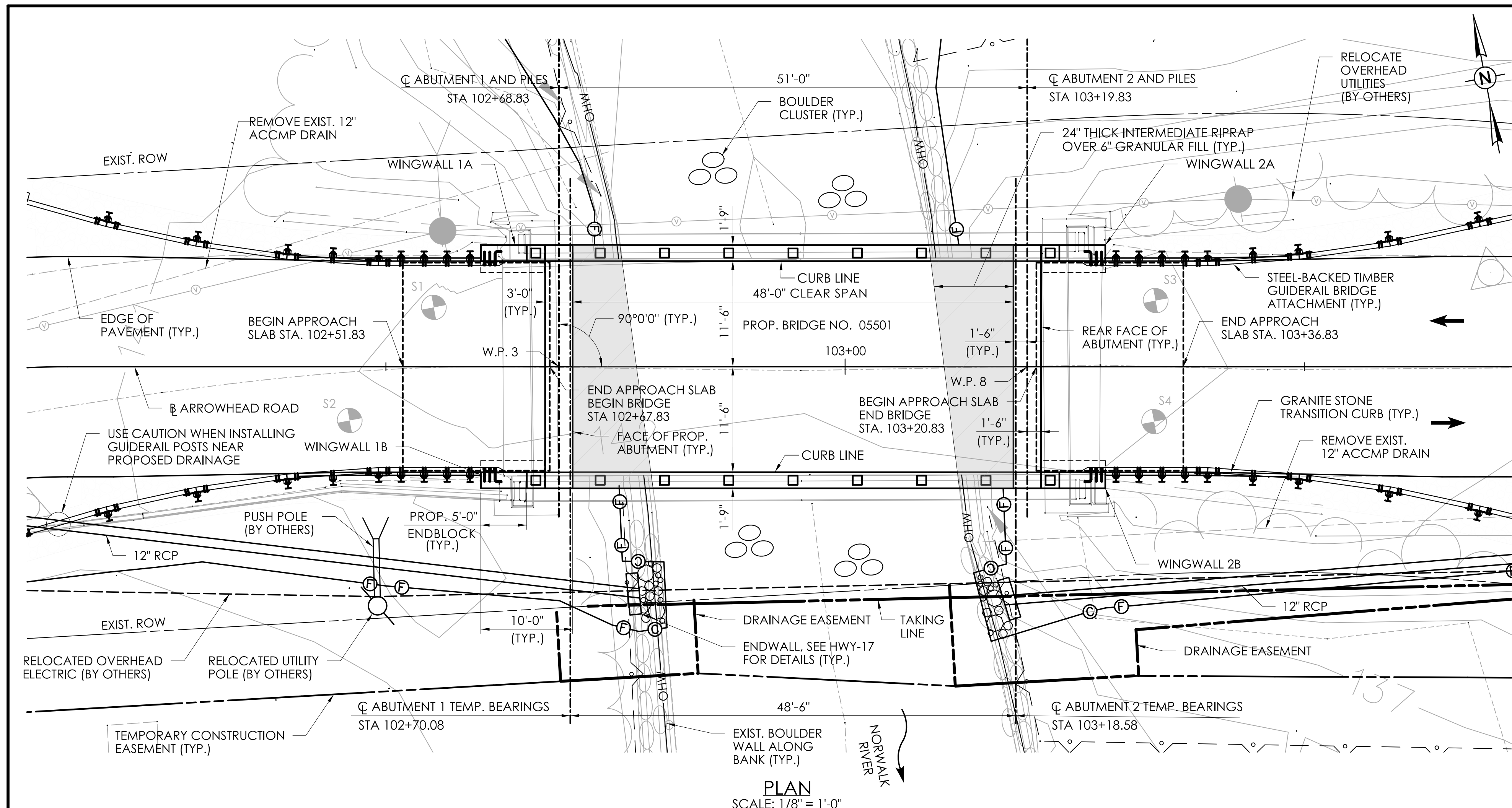
DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
S-01	STRUCTURE INDEX OF DRAWINGS	S-15	TEMPORARY BRIDGE LAYOUT
S-02	GENERAL PLAN AND ELEVATION	S-16	3-TUBE CURB MOUNTED BRIDGE RAIL DETAILS - 1
S-03	STRUCTURAL GENERAL NOTES	S-17	3-TUBE CURB MOUNTED BRIDGE RAIL DETAILS - 2
S-04	BORING LOGS - 1	S-18	3-TUBE CURB MOUNTED BRIDGE RAIL DETAILS - 3
S-05	BORING LOGS - 2	S-19	WATER HANDLING AND CONSTRUCTION STAGING PLAN
S-06	PILE LAYOUT PLAN	S-20	WATER HANDLING AND CONSTRUCTION NOTES AND DETAILS
S-07	ABUTMENT NO. 1 AND WINGWALLS 1A & 1B	S-21	CONSTRUCTION DETAILS
S-08	ABUTMENT NO. 2 AND WINGWALLS 2A & 2B		
S-09	SUBSTRUCTURE REINFORCING		
S-10	FRAMING PLAN		
S-11	PRESTRESSED CONCRETE DETAILS - 1		
S-12	PRESTRESSED CONCRETE DETAILS - 2		
S-13	PRESTRESSED CONCRETE DETAILS - 3		
S-14	APPROACH SLAB DETAILS		

DESIGNED BY:
**MOTT
 MACDONALD** M M
 175 Capital Blvd
 4th Floor
 Rocky Hill, CT 06067



Jeffrey J. Long
 2022.09.30
 16:55:46-04'00'

FDP SUBMISSION
 SEPTEMBER 28, 2022

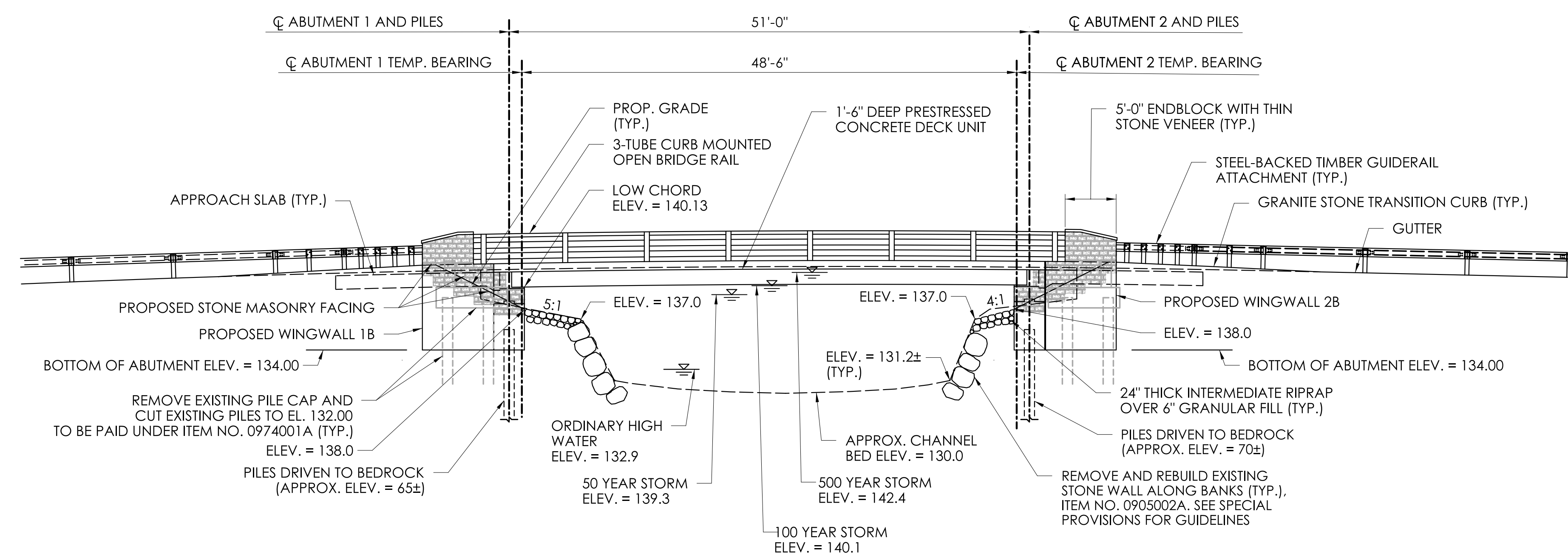


PLAN
SCALE: 1/8" = 1'-0"

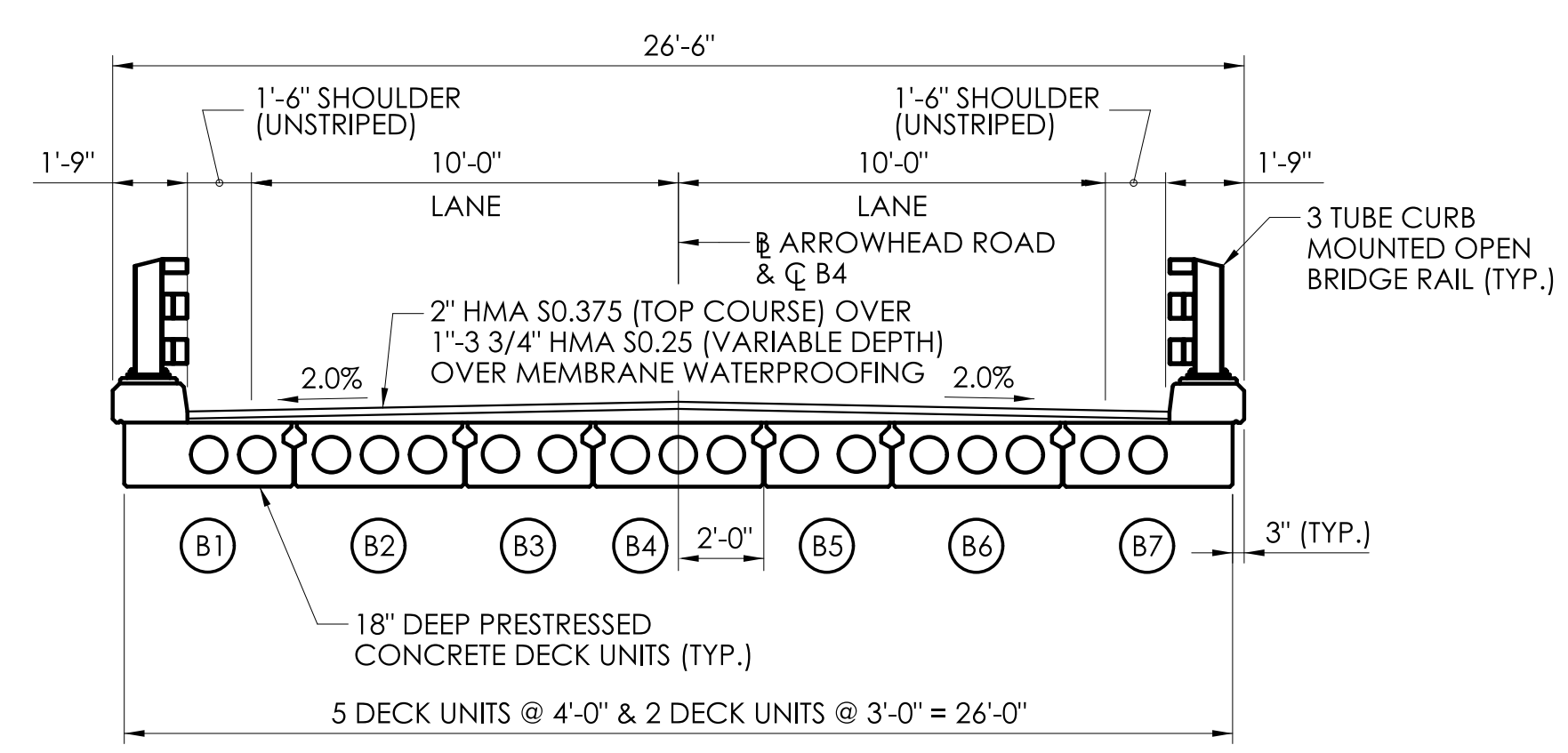
LEGEND



MEMBER	MAXIMUM SHIPPING LENGTH	MAXIMUM SHIPPING HEIGHT	MAXIMUM SHIPPING WIDTH	MAXIMUM SHIPPING WEIGHT
B1 & B7	50'-6"	1'-6"	4'-0"	36,526 LBS
B3 & B5	50'-6"	1'-6"	3'-0"	24,543 LBS
B2, B4 & B6	50'-6"	1'-6"	4'-0"	32,019 LBS



SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

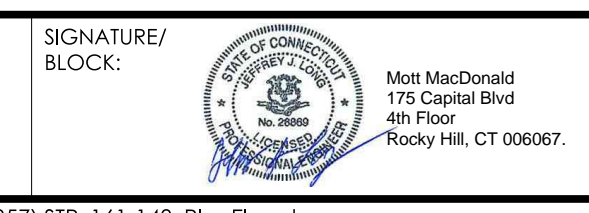


BRIDGE SECTION
SCALE: 1/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.
SCALE AS NOTED

SIGNATURE/BLOCK: Mott MacDonald



M M
MOTT MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067



PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: GENERAL PLAN AND ELEVATION

FDP SUBMISSION
SEPTEMBER 28, 2022

DRAWING NO. S-02
SHEET NO. 05.02

GENERAL NOTES:

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 818 (2020), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2022, AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATION (AASHTO 9TH EDITION, 2020) AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003 WITH INTERIM REVISIONS UP TO AND INCLUDING 12/19).

MATERIAL STRENGTHS:
 CLASS PCC03340 (CAST-IN-PLACE CONCRETE) F'c = 3,000 PSI
 CLASS PCC04462 (CAST-IN PLACE CONCRETE) F'c = 4,000 PSI
 CLASS PRC10062 (PRECAST CONCRETE) F'c = 10,000 PSI

THE CONCRETE STRENGTH, F'c, USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES, AND M.03 - PORTLAND CEMENT CONCRETE.

REINFORCEMENT
 ASTM A615 GRADE 60 FY = 60,000 PSI

LIVE LOAD: HL93, LEGAL AND PERMIT VEHICLES

FUTURE PAVING ALLOWANCE: NONE.

BITUMINOUS CONCRETE OVERLAY: THIS SHALL CONSIST OF TWO LIFTS. THE FIRST SHALL BE HMA S0.25 (1" - 3 3/4" VARIABLE DEPTH), THE SECOND SHALL BE HMA S0.375 (2" THICK).

FOUNDATION PRESSURE AND PILE LOADS: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR REVIEW, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

CONCRETE NOTES:
 THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE BRIDGE COMPONENTS:

ITEM	BRIDGE COMPONENTS	PCC CLASS
ABUTMENT AND WALL CONCRETE	ABUTMENT AND WINGWALL STEMS, CLOSURE POURS	PCC03340
PARAPET CONCRETE	ENDBLOCK	PCC04462
	BRIDGE CURB	PCC04462
APPROACH SLAB CONCRETE	APPROACH SLAB	PCC04462

JOINT SEAL: SEE SPECIAL PROVISIONS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"x1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT IN CAST IN PLACE CONCRETE SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED."

PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER IS PAID FOR AS "1" PREFORMED JOINT FILLER FOR BRIDGES."

CLOSED CELL ELASTOMER: FURNISHING AND INSTALLING CLOSED CELL ELASTOMER SHALL BE INCLUDED IN THE ITEM "1" CLOSED CELL ELASTOMER."

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

BRIDGE IDENTIFICATION PLACARDS: THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE IDENTIFICATION SIGNS AT THE LEADING END OF EACH BRIDGE ENDBLOCK. THE SIGNS SHALL BE FABRICATED WITH 40 GAUGE ALUMINUM SHEET METAL. THE SIGNS SHALL BE 4" X 12" WITH 3" WHITE REFLECTIVE BLOCK NUMBERS ON GREEN RETROREFLECTIVE SHEETING. EACH SIGN SHALL READ 05501. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING THE BRIDGE SIGNS SHALL BE COVERED UNDER THE ITEM "SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)". THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

BRIDGE AESTHETIC NOTES: ALL EXPOSED CONCRETE SURFACES OF ABUTMENTS (NOT INCLUDING FRONT FACE OF THE ABUTMENTS), WINGWALLS AND ENDBLOCKS (VERTICAL FACES) SHALL BE PROVIDED WITH A STONE MASONRY FACING. THE STONE MASONRY SHALL BE "THIN STONE VENEER" AND THE STONE PATTERN SHALL BE "NEW ENGLAND FIELDSTONE MOSAIC" PATTERN FROM CONNECTICUT STONE PRODUCTS, OR APPROVED EQUAL.

THE BRIDGE RAILS, POSTS AND HARDWARE SHALL BE METALLIZED. THE COLOR OF THE TOP COAT MATERIAL ON THE STEEL SHALL CONFORM TO FEDERAL STANDARD NO. 17038 (BLACK).

INSPECTION OF FIELD WELDS		
METHODS	UNIT	QUANTITY
ULTRASONIC	INCH	0
MAGNETIC PARTICLE	FEET	0

CONCRETE DISTRIBUTION		
	C.Y.	
SUPERSTRUCTURE		45
SUBSTRUCTURE		65
FOOTING		0
TOTAL		110

HYDRAULIC SUMMARY DATA		
DRAINAGE AREA [mi ²]	29	
DESIGN FREQUENCY [YEAR]	100	
DESIGN DISCHARGE [cfs]	4,850	
AVERAGE DAILY FLOW [cfs]	55	
DESIGN WATER SURFACE ELEVATION [feet]	UPSTREAM	DOWNSTREAM
	140.1	139.6
MINIMUM SCOUR FREQUENCY (YEARS)	*50	
MAXIMUM SCOUR ELEVATION [feet] ¹	122.0	
WORST SCOUR SUBSTRUCTURE UNIT ¹	ABUTMENT 2 (EAST)	

NOTE: ALL HYDRAULIC DATA PROVIDED BY CHA CONSULTING, INC.
 *50-YEAR STORM IS THE INCIPIENT OVERTOPPING FLOW, WHICH RESULTS IN GREATER SCOUR THAN THE TYPICAL 200-YEAR DESIGN AND 500-YEAR CHECK STORMS FOR SCOUR EVALUATION.

NOTICE TO BRIDGE INSPECTORS	
THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUAL FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING FOR COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF STRUCTURE.) THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.	
COMPONENT OR DETAIL	STRUCTURE SHEET REFERENCE
NONE	

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.B.	CHECKED BY: D.J.L.	SIGNATURE/BLOCK:	175 CAPITAL BLVD 4TH FLOOR ROCKY HILL, CT 06067	TOWN OF WILTON	PROJECT NUMBER: 0161-0143 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER TOWN(S): WILTON DRAWING TITLE: STRUCTURAL GENERAL NOTES	DRAWING NO. S-03 SHEET NO. 05.03
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HOLE NO. S-1 (1 OF 4)

Connecticut DOT Boring Report Format Hole No.: S-1. Includes project details, casing information, groundwater observations, and a log of samples from 0 to 25 feet depth. Material descriptions include Asphalt Pavement 4", Gray c-f SAND, and Brown c-f SAND.

HOLE NO. S-1 (2 OF 4)

Connecticut DOT Boring Report Format Hole No.: S-1. Includes project details, casing information, groundwater observations, and a log of samples from 25 to 50 feet depth. Material descriptions include Brown c-f GRAVEL and Brown c-f SAND.

HOLE NO. S-1 (3 OF 4)

Connecticut DOT Boring Report Format Hole No.: S-1. Includes project details, casing information, groundwater observations, and a log of samples from 50 to 75 feet depth. Material descriptions include Brown c-f SAND, Gray-brown c-f SAND, and Glacial Till.

HOLE NO. S-1 (4 OF 4)

Connecticut DOT Boring Report Format Hole No.: S-1. Includes project details, casing information, groundwater observations, and a log of samples from 75 to 100 feet depth. Material descriptions include GNEISS and END OF BORING 78ft.

HOLE NO. S-2 (1 OF 4)

Connecticut DOT Boring Report Format Hole No.: S-2. Includes project details, casing information, groundwater observations, and a log of samples from 0 to 25 feet depth. Material descriptions include Asphalt Pavement 4", Gray c-f SAND, and Brown c-f SAND.

HOLE NO. S-2 (2 OF 4)

Connecticut DOT Boring Report Format Hole No.: S-2. Includes project details, casing information, groundwater observations, and a log of samples from 25 to 50 feet depth. Material descriptions include Brown c-f SAND and c-f GRAVEL.

HOLE NO. S-2 (3 OF 4)

Connecticut DOT Boring Report Format Hole No.: S-2. Includes project details, casing information, groundwater observations, and a log of samples from 50 to 75 feet depth. Material descriptions include Brown c-f SAND and c-f GRAVEL, and Glacial Till.

HOLE NO. S-2 (4 OF 4)

Connecticut DOT Boring Report Format Hole No.: S-2. Includes project details, casing information, groundwater observations, and a log of samples from 75 to 100 feet depth. Material descriptions include GNEISS and END OF BORING 83 ft.

REVISION DESCRIPTION table with columns for REV, DATE, and DESCRIPTION.

DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.

SIGNATURE/BLOCK: Mott MacDonald logo and name.

MOTT MACDONALD logo and address: 175 CAPITAL BLVD, 4TH FLOOR, ROCKY HILL, CT 06067.

TOWN OF WILTON logo and name.

PROJECT NUMBER: 0161-0143. PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER.

DRAWING TITLE: BORING LOGS - 1.

DRAWING NO. S-04. SHEET NO. 05.04.

HOLE NO. S-3 (1 OF 4)

Connecticut DOT Boring Report Format. Hole No.: S-3. Project No.: 161-143. Route No.: Arrowhead Road. Bridge No.: 05501. Project Description: Reconstruction of Arrowhead Road over Norwalk River. Includes sample data table and notes.

HOLE NO. S-3 (2 OF 4)

Connecticut DOT Boring Report Format. Hole No.: S-3. Project No.: 161-143. Route No.: Arrowhead Road. Bridge No.: 05501. Project Description: Reconstruction of Arrowhead Road over Norwalk River. Includes sample data table and notes.

HOLE NO. S-3 (3 OF 4)

Connecticut DOT Boring Report Format. Hole No.: S-3. Project No.: 161-143. Route No.: Arrowhead Road. Bridge No.: 05501. Project Description: Reconstruction of Arrowhead Road over Norwalk River. Includes sample data table and notes.

HOLE NO. S-3 (4 OF 4)

Connecticut DOT Boring Report Format. Hole No.: S-3. Project No.: 161-143. Route No.: Arrowhead Road. Bridge No.: 05501. Project Description: Reconstruction of Arrowhead Road over Norwalk River. Includes sample data table and notes.

HOLE NO. S-4 (1 OF 4)

Connecticut DOT Boring Report Format. Hole No.: S-4. Project No.: 161-143. Route No.: Arrowhead Road. Bridge No.: 05501. Project Description: Reconstruction of Arrowhead Road over Norwalk River. Includes sample data table and notes.

HOLE NO. S-4 (2 OF 4)

Connecticut DOT Boring Report Format. Hole No.: S-4. Project No.: 161-143. Route No.: Arrowhead Road. Bridge No.: 05501. Project Description: Reconstruction of Arrowhead Road over Norwalk River. Includes sample data table and notes.

HOLE NO. S-4 (3 OF 4)

Connecticut DOT Boring Report Format. Hole No.: S-4. Project No.: 161-143. Route No.: Arrowhead Road. Bridge No.: 05501. Project Description: Reconstruction of Arrowhead Road over Norwalk River. Includes sample data table and notes.

HOLE NO. S-4 (4 OF 4)

Connecticut DOT Boring Report Format. Hole No.: S-4. Project No.: 161-143. Route No.: Arrowhead Road. Bridge No.: 05501. Project Description: Reconstruction of Arrowhead Road over Norwalk River. Includes sample data table and notes.

REVISION DESCRIPTION table with columns for REV, DATE, and DESCRIPTION.

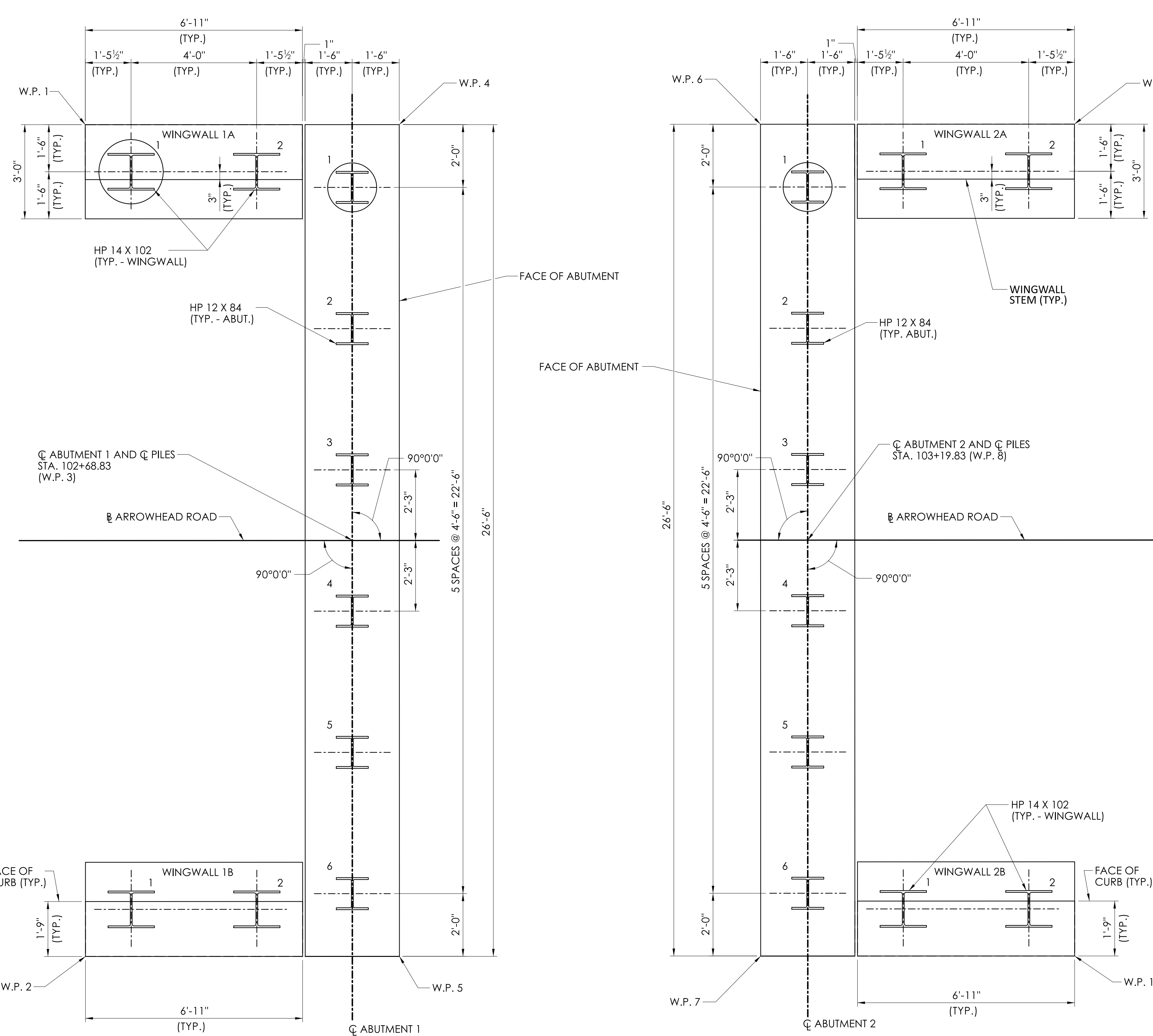
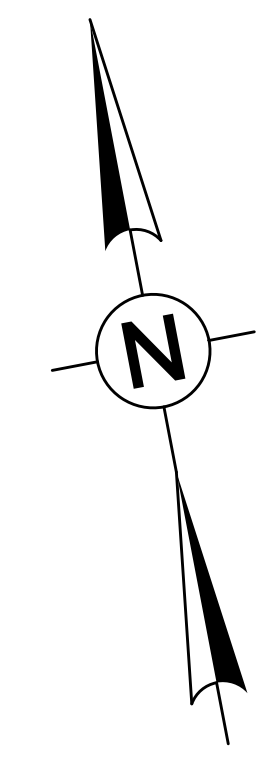
DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L. SIGNATURE/BLOCK: Mott MacDonald logo and name.

MOTT MACDONALD 175 CAPITAL BLVD 4TH FLOOR ROCKY HILL, CT 06067

TOWN OF WILTON logo and name.

PROJECT NUMBER: 0161-0143 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER TOWN(S): WILTON DRAWING TITLE: BORING LOGS - 2

NOTE: SEE S-02 FOR BORING LOCATION. DRAWING NO. S-05 SHEET NO. 05.05



- NOTES:**
- PRIOR TO DRIVING THE PILES, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL THE METHOD AND SEQUENCE OF PILE DRIVING.
 - PILE POINT REINFORCEMENT AND SPLICES SHALL BE PREFABRICATED. THE CONTRACTOR SHALL SUBMIT PILE POINT REINFORCEMENT AND SPLICE DETAILS TO THE ENGINEER FOR REVIEW AND APPROVAL.
 - THE ESTIMATED PILE LENGTHS ARE TO BE USED AS THE PILE ORDER LENGTH.
 - H-PILES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50.
 - PILES SHALL BE DRIVEN TO APPROXIMATELY ELEVATION 65 AT ABUTMENT 1 AND WINGWALL 1 AND APPROXIMATELY ELEVATION 70 AT ABUTMENT 2 AND WINGWALL 2. THE REFUSAL CRITERIA SHALL BE CONFIRMED BY DYNAMIC TESTING. CONTRACTOR MAY EMPLOY PRE-AUGERING TO REMOVE OBSTRUCTIONS AND FACILITATE PILE DRIVING IN THE FILL AND NATURAL SOILS, WHERE REQUIRED TO AVOID EXCESSIVE STRESSES IN PILES. AN ALLOWANCE OF 400 LF OF PRE-AUGERING PILES HAS BEEN INCLUDED IN THE CONTRACT.
 - SOIL DEPOSITS AT THE SITE ARE GLACIALLY-DERIVED AND KNOWN TO CONTAIN COBBLES AND/OR BOULDERS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF PILES ENCOUNTER REFUSAL AT ELEVATIONS HIGHER THAN ELEVATIONS SPECIFIED HEREIN.
 - DYNAMIC TESTING SHALL BE CARRIED OUT ON THE FIRST PILE DRIVEN AT EACH ABUTMENT AND ON THE FIRST WINGWALL PILE DRIVEN (TOTAL OF THREE PILES) TO ENSURE THAT STRESSES IN PILES DO NOT EXCEED 45 KSI AT THE PRESCRIBED REFUSAL CRITERIA AND TO CONFIRM THE PILE CAPACITY OF 280 KIPS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF STRESSES IN PILES REACH 45 KSI BEFORE REFUSAL CRITERION IS MET.

PILE LAYOUT							
COMPONENT	PILE NO.	STA.	OFFSET	COMPONENT	PILE NO.	STA.	OFFSET
ABUTMENT 1	1	102+68.83	11.25 LT	WINGWALL 1A	1	102+61.79	11.75 LT
	2	102+68.83	6.75 LT		2	102+65.79	11.75 LT
	3	102+68.83	2.25 LT				
	4	102+68.83	2.25 RT	WINGWALL 1B			
	5	102+68.83	6.75 RT		1	102+61.79	11.75 RT
	6	102+68.83	11.25 RT		2	102+65.79	11.75 RT

ABUTMENT 2	1	103+19.83	11.25 LT	WINGWALL 2A	1	103+22.87	11.75 LT
	2	103+19.83	6.75 LT		2	103+26.87	11.75 LT
	3	103+19.83	2.25 LT				
	4	103+19.83	2.25 RT	WINGWALL 2B			
	5	103+19.83	6.75 RT		1	103+22.87	11.75 RT
	6	103+19.83	11.25 RT		2	103+26.87	11.75 RT

PILE SCHEDULE							
STRUCTURE UNIT	PILE SIZE	NUMBER OF PILES	ESTIMATED PILE LENGTH	TEST PILE LENGTH	ULTIMATE PILE CAPACITY	MAXIMUM FACTORED DESIGN PILE LOAD (KIPS) (STRENGTH I)	MAXIMUM UNFACTORED DESIGN PILE LOAD (KIPS) (SERVICE I)
ABUTMENT 1	HP 12X84	6	75	75	195 KIPS	122	83
ABUTMENT 2	HP 12X84	6	70	70	195 KIPS	122	83
WINGWALL 1A	HP 14X102	2	75	75	255 KIPS	34	7
WINGWALL 1B	HP 14X102	2	75	-	255 KIPS	34	7
WINGWALL 2A	HP 14X102	2	70	-	255 KIPS	34	7
WINGWALL 2B	HP 14X102	2	70	-	255 KIPS	34	7

WORKING POINT LAYOUT			
WORKING POINT	STATION	OFFSET (FT)	COORDINATES
1	102+60.33	13.25 LT	N 624937.45 E 816054.87
2	102+60.33	13.25 RT	N 624911.41 E 816049.90
3	102+68.83	0	N 624922.84 E 816060.74
4	102+70.33	13.25 LT	N 624935.57 E 816064.69
5	102+70.33	13.25 RT	N 624909.54 E 816059.73

WORKING POINT LAYOUT			
WORKING POINT	STATION	OFFSET (FT)	COORDINATES
6	103+18.33	13.25 LT	N 624926.58 E 816111.84
7	103+18.33	13.25 RT	N 624900.55 E 816106.88
8	103+19.83	0	N 624924.71 E 816110.83
9	103+28.33	13.25 LT	N 624924.71 E 816121.67
10	103+28.33	13.25 RT	N 624898.68 E 816116.70

LEGEND:

DENOTES VERTICAL PILE DENOTES TEST PILE

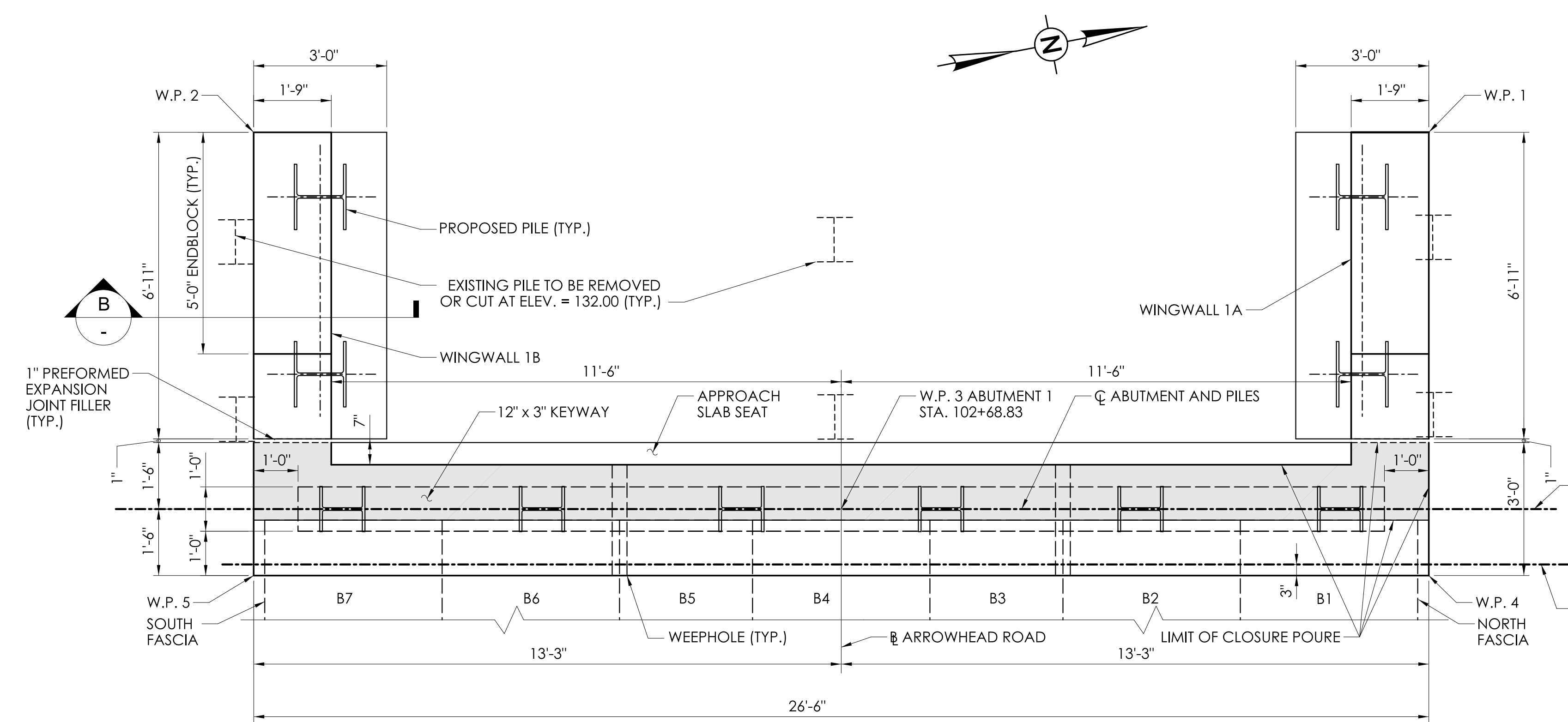
REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.
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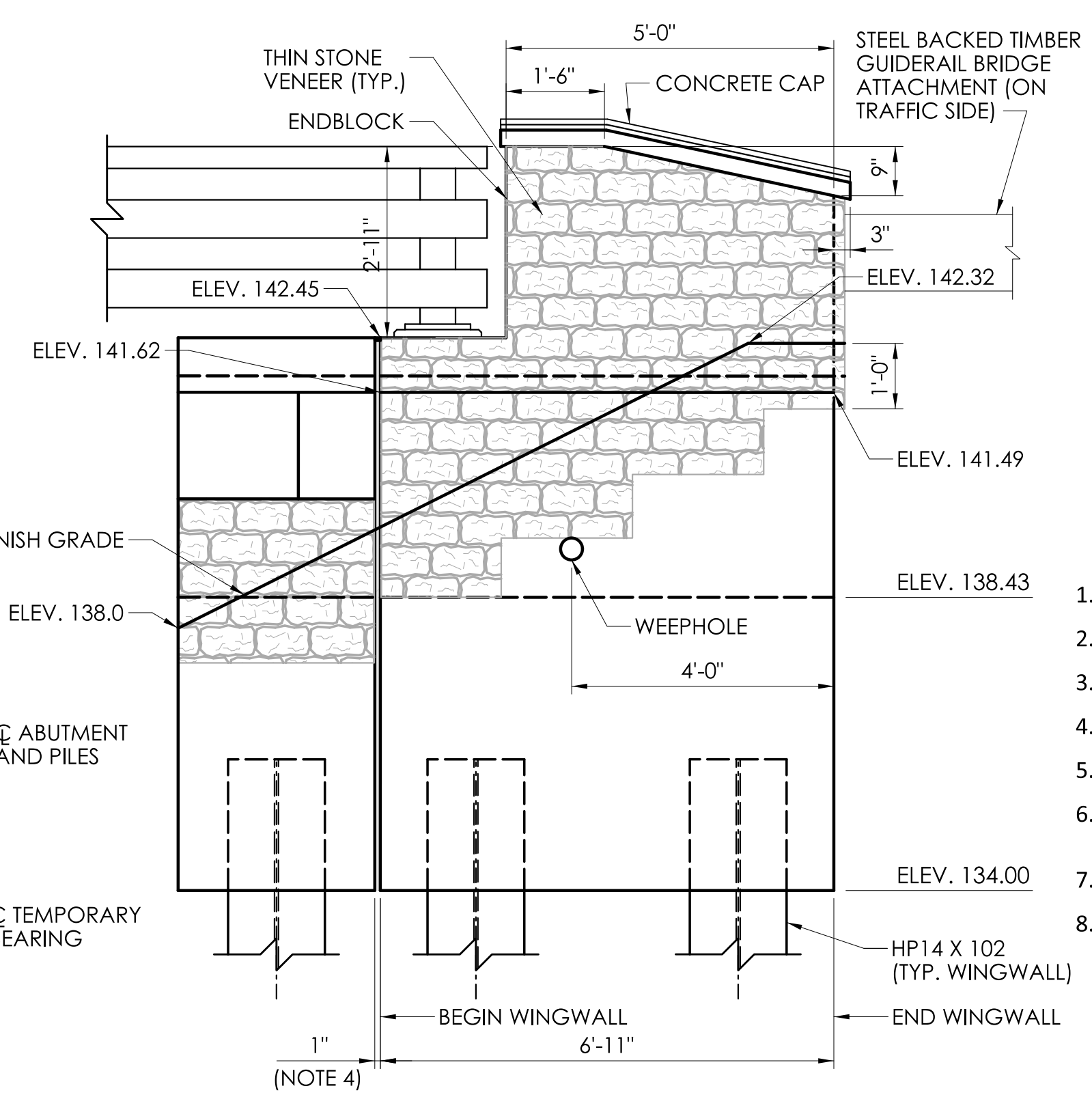
MOTT MACDONALD
 175 CAPITAL BLVD
 4TH FLOOR
 ROCKY HILL, CT 06067

TOWN OF WILTON

PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: PILE LAYOUT PLAN
 DRAWING NO. S-06
 SHEET NO. 05.06
 FDP SUBMISSION
 SEPTEMBER 28, 2022



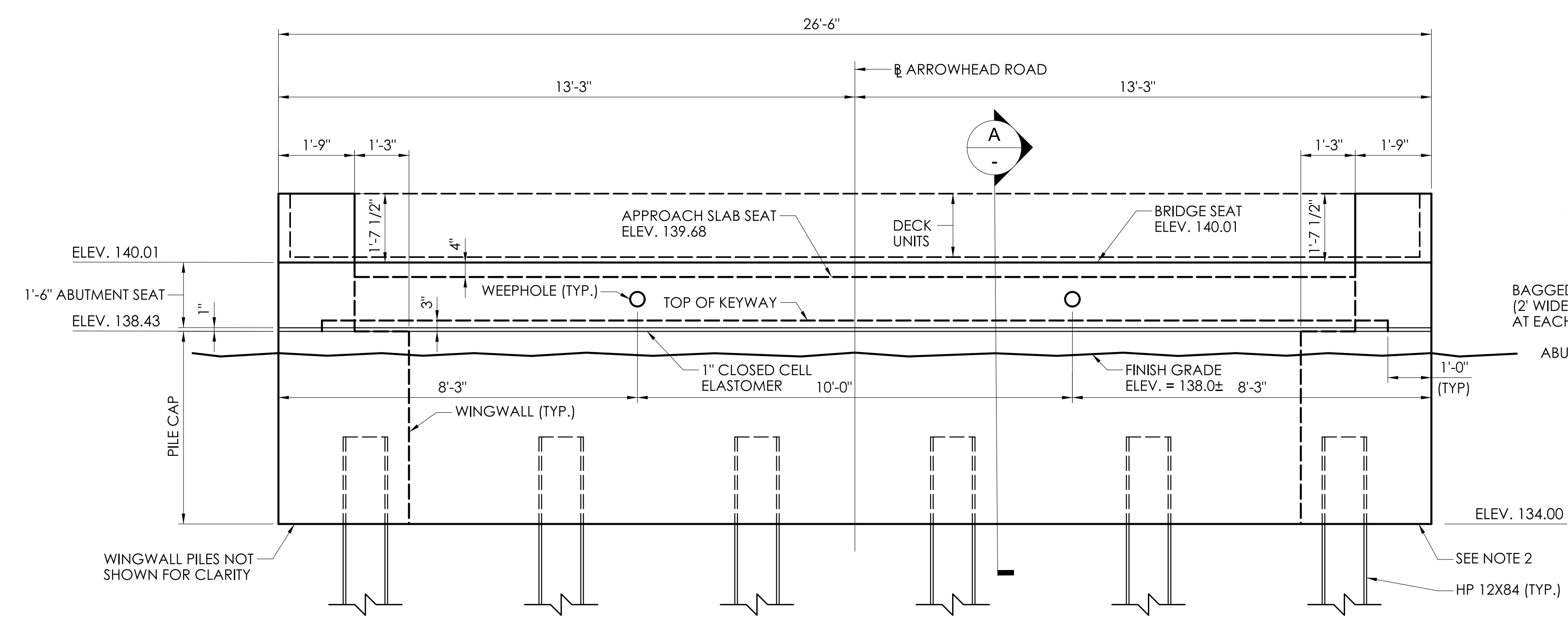
PLAN - ABUTMENT NO. 1
SCALE: 1/2" = 1'-0"



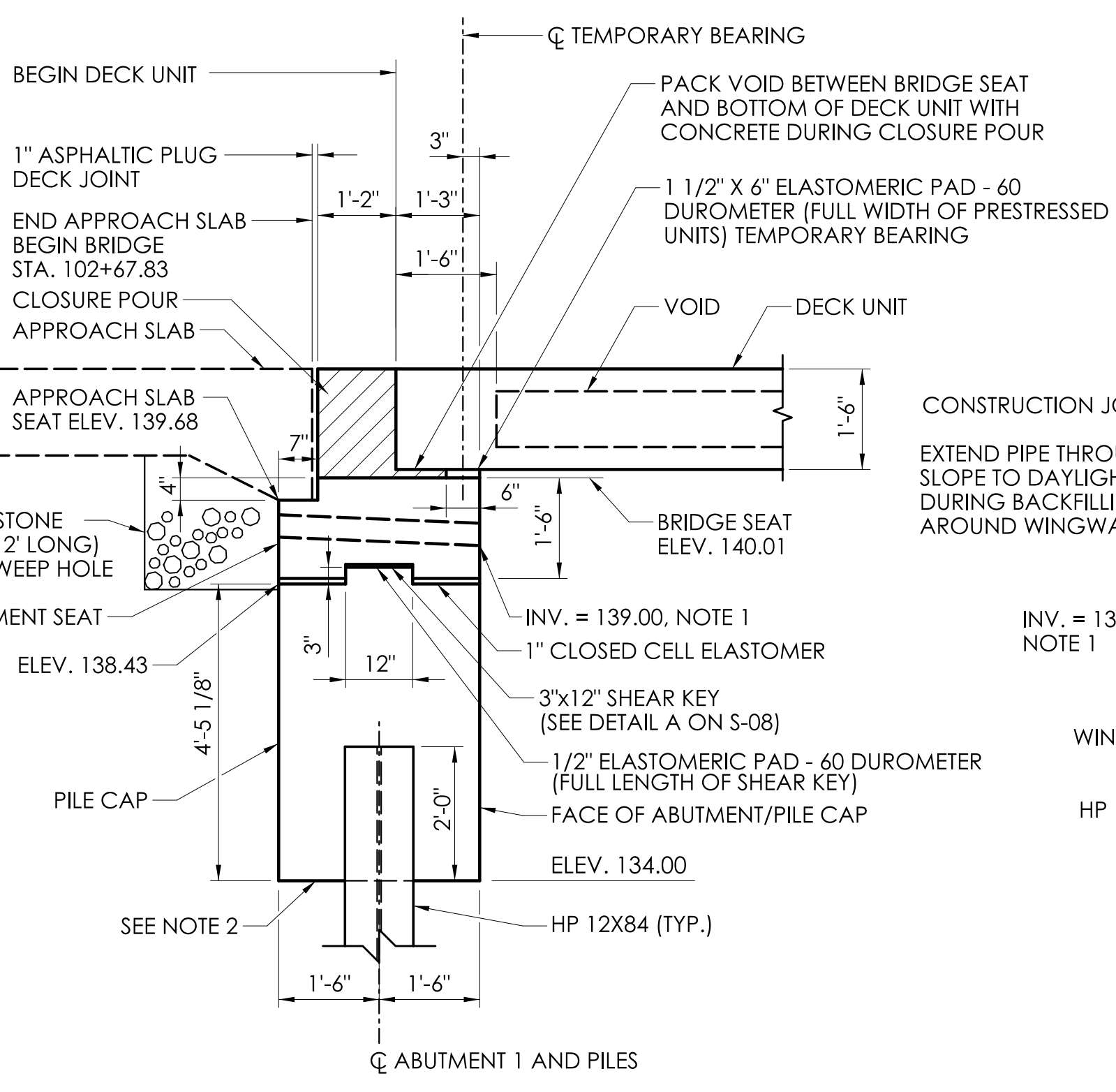
WINGWALL 1A & 1B ELEVATION
WINGWALL 1A SHOWN, WINGWALL 1B OPPOSITE
SCALE: 1/2" = 1'-0"

- NOTES:**
1. PROVIDE 4" DIA. WEEPHOLES, SLOPED AT 4%, INV. = 139.00 AT FRONT FACE OF PILE CAP. COST OF FURNISHING AND INSTALLING WEEP HOLES IS INCLUDED IN THE COST OF CONCRETE. OUTLET WEEPHOLES ONTO RIP-RAP.
 2. PILE CAPS TO BE FOUNDED ON IN-SITU SOIL. CONTRACTOR SHALL PLACE GRANULAR FILL OVER GEOTEXTILE FABRIC IF THE SUBGRADE IS DETERMINED TO BE UNSTABLE BY THE ENGINEER.
 3. FOR DAMPPROOFING AND BACKFILLING DETAILS, SEE DRAWING S-21.
 4. PROVIDE 1" PREFORMED EXPANSION JOINT FILLER (ITEM 0601504) AND 1" X 1/2" PREFORMED JOINT SEAL (ITEM 0520041) BETWEEN WINGWALL AND ABUTMENT/CLOSURE POUR/CURB FOR FULL CONTACT PERIMETER.

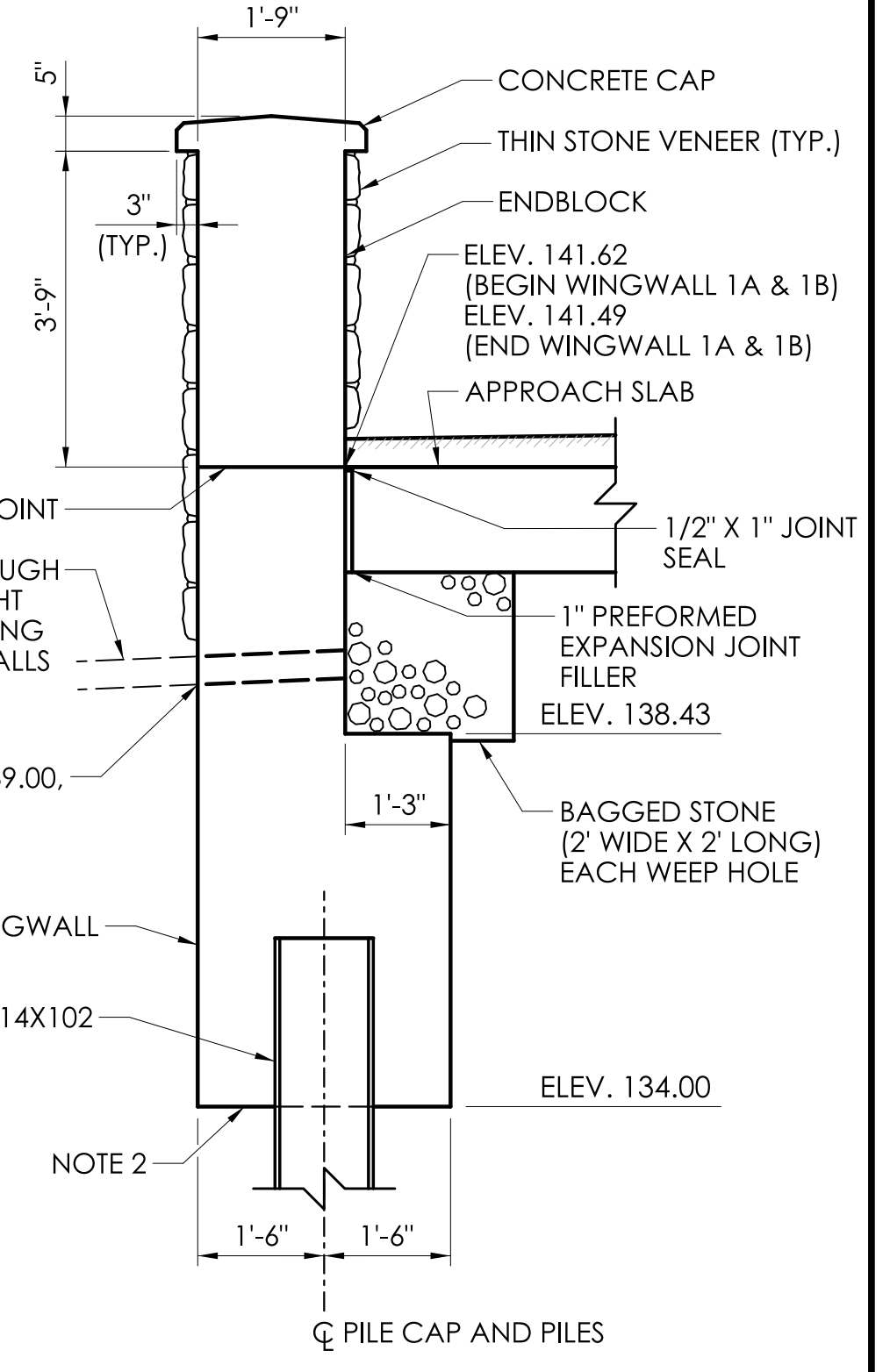
- CONSTRUCTION SEQUENCE:**
1. DRIVE ABUTMENT AND WINGWALL PILES.
 2. FORM AND POUR ABUTMENT PILE CAPS AND WINGWALLS.
 3. BACKFILL BEHIND PILE CAPS.
 4. FORM AND POUR ABUTMENT SEATS.
 5. PLACE TEMPORARY BEARINGS. SET PRESTRESSED DECK UNITS.
 6. BEND DECK UNIT STRANDS INTO CLOSURE POUR AREA. FORM AND POUR CLOSURE POURS.
 7. FINISH BACKFILL BEHIND ABUTMENTS AND WINGWALLS.
 8. FORM AND POUR APPROACH SLABS.



ELEVATION - ABUTMENT NO. 1
SCALE: 1/2" = 1'-0"



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



SECTION B
SCALE: 1/2" = 1'-0"

REV.	DATE	REVISION DESCRIPTION

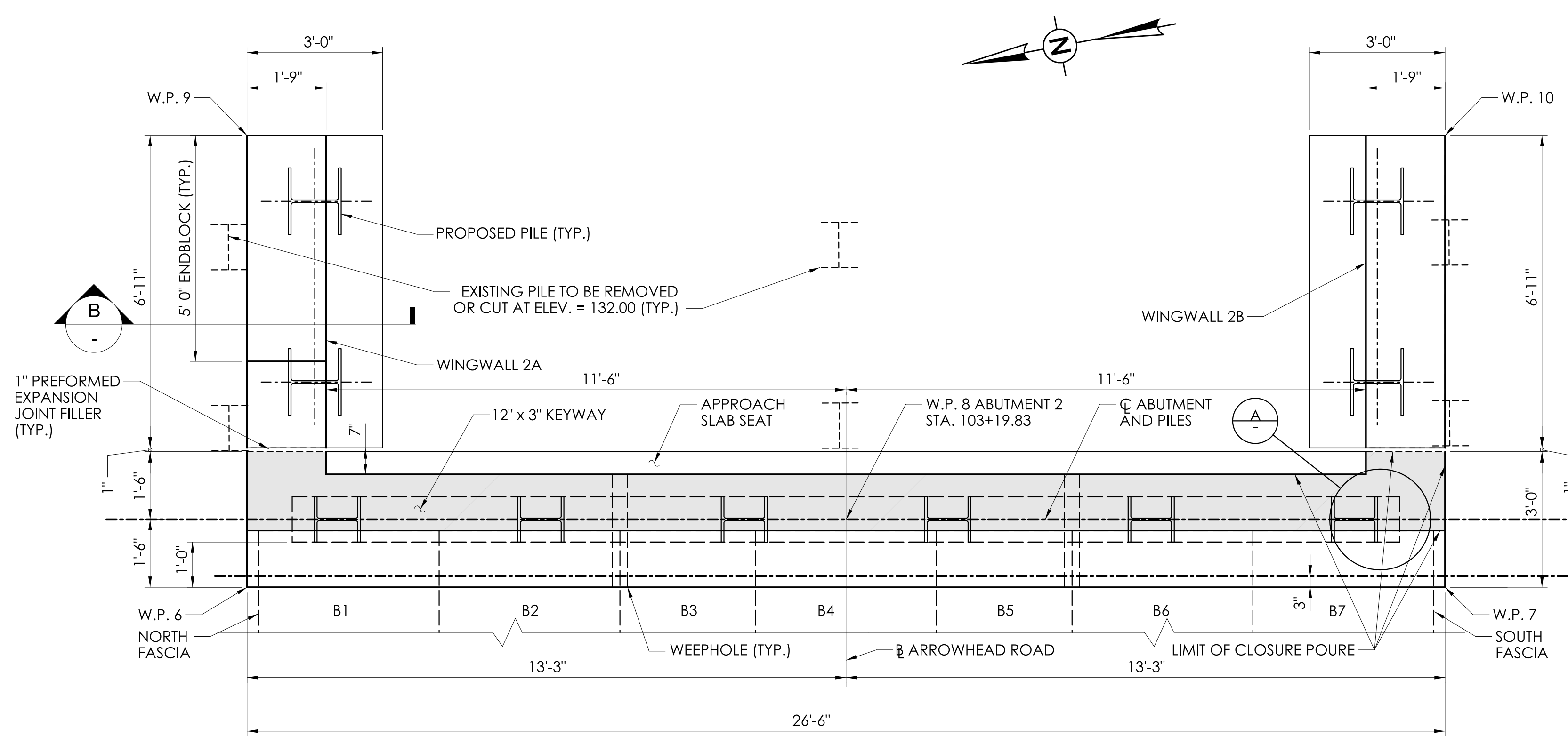
DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.
SCALE: 1/2" = 1'-0"

SIGNATURE/BLOCK:
Mott MacDonald
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067

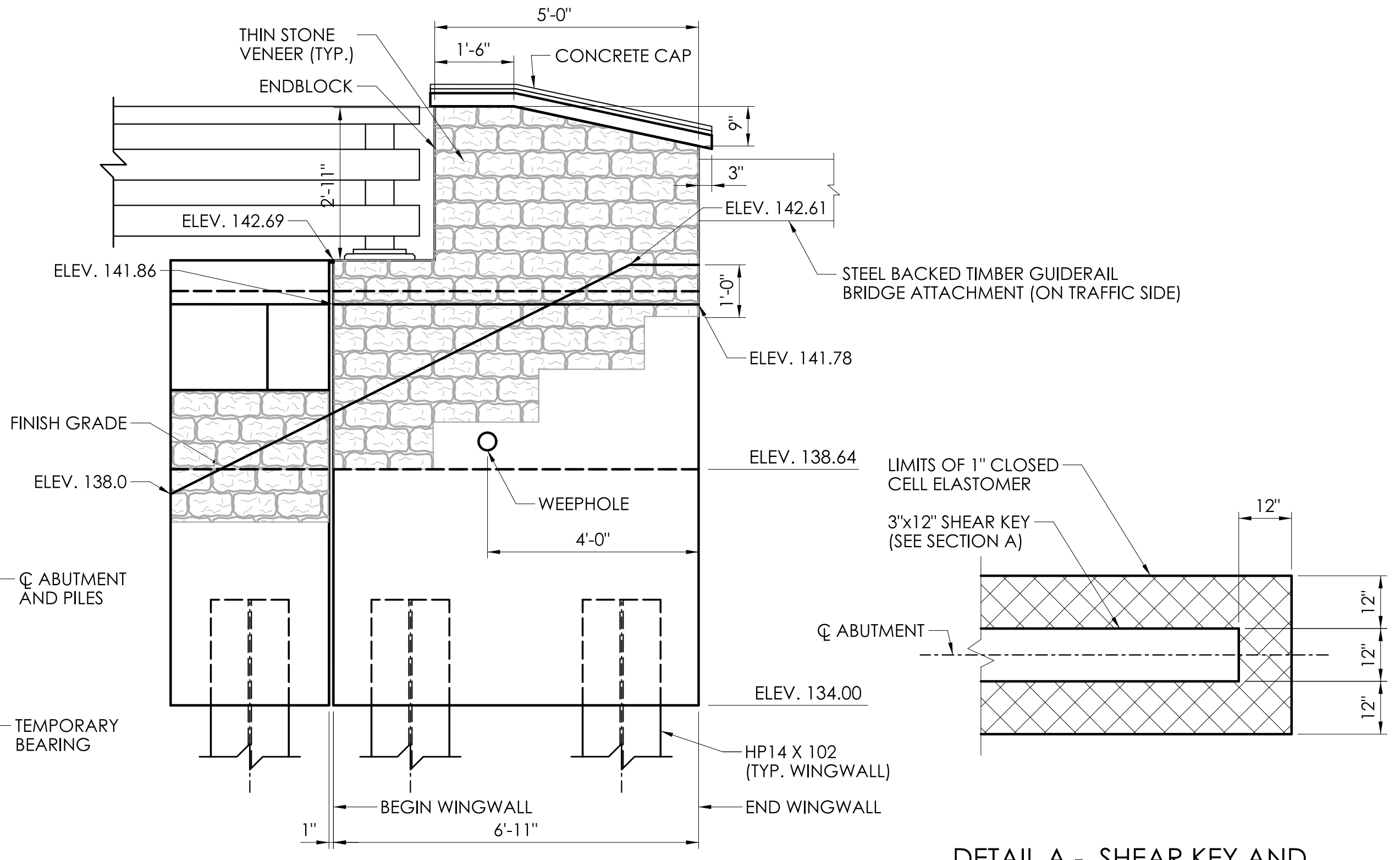
M M
MOTT MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

TOWN OF WILTON

PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: ABUTMENT NO. 1 AND WINGWALLS 1A & 1B
DRAWING NO. S-07
SHEET NO. 05.07
FDP SUBMISSION
SEPTEMBER 28, 2022

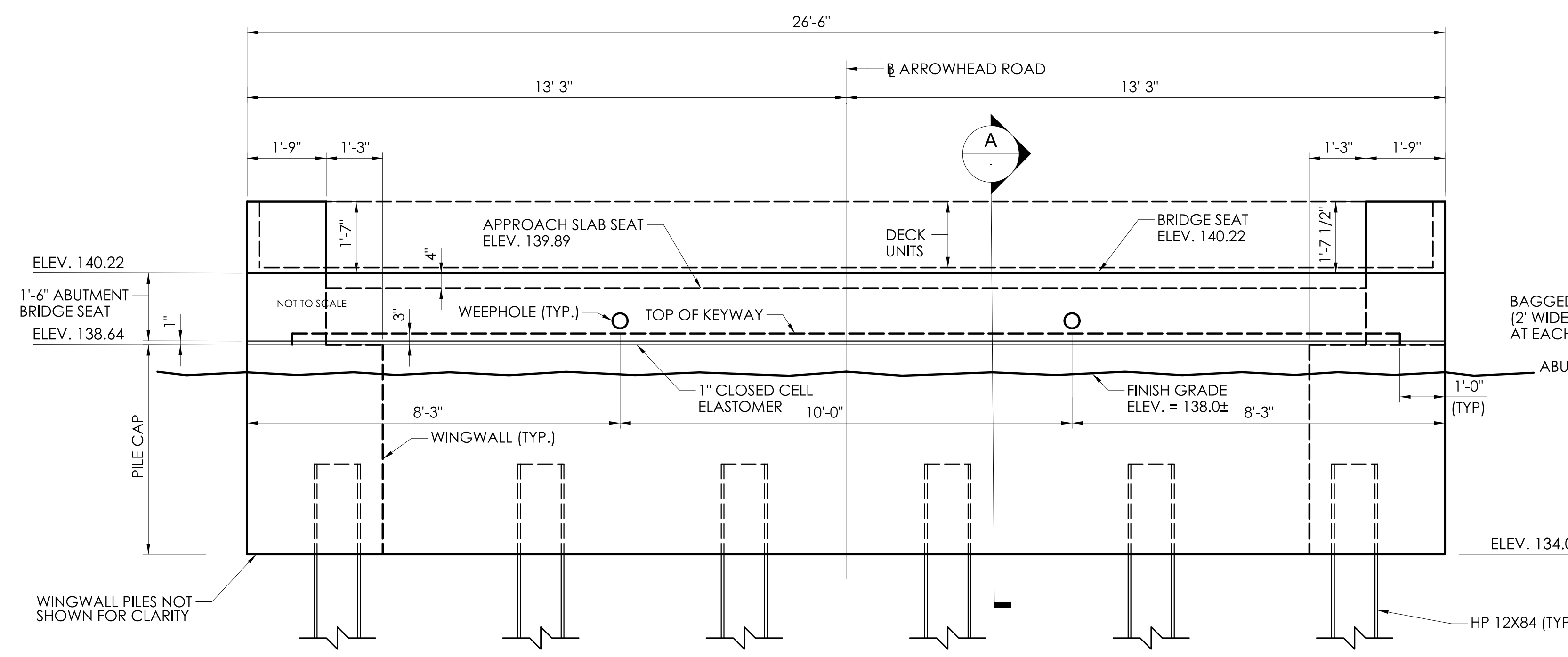


PLAN - ABUTMENT NO. 2
SCALE: 1/2" = 1'-0"

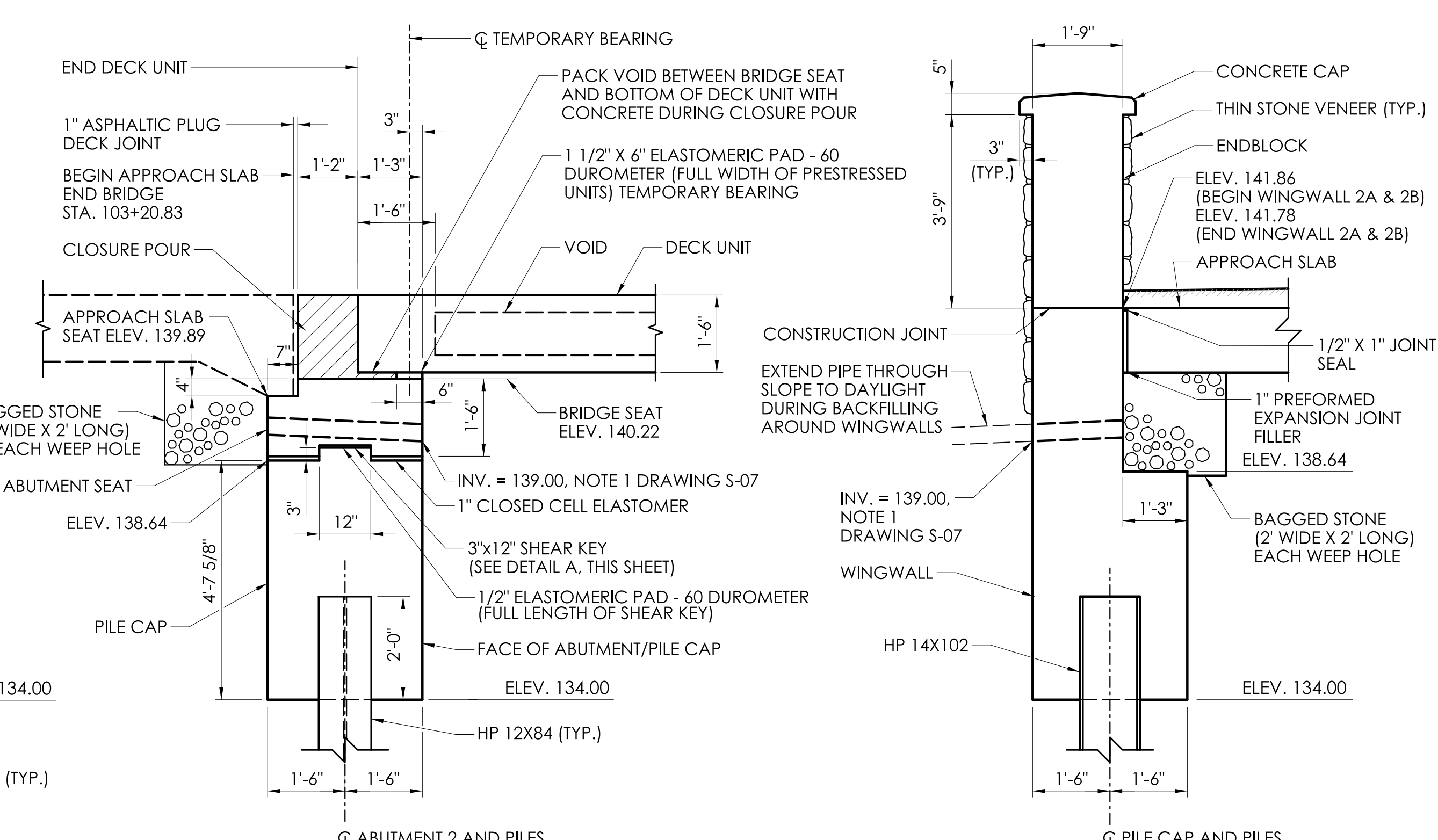


WINGWALL 2A & 2B ELEVATION
WINGWALL 2B SHOWN, WINGWALL 2A OPPOSITE
SCALE: 1/2" = 1'-0"

DETAIL A - SHEAR KEY AND CLOSED CELL ELASTOMER
SCALE: 1/2" = 1'-0"



ELEVATION - ABUTMENT NO. 2
SCALE: 1/2" = 1'-0"



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

SECTION B
SCALE: 1/2" = 1'-0"

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.

SCALE: 1/2" = 1'-0"

SIGNATURE/BLOCK:

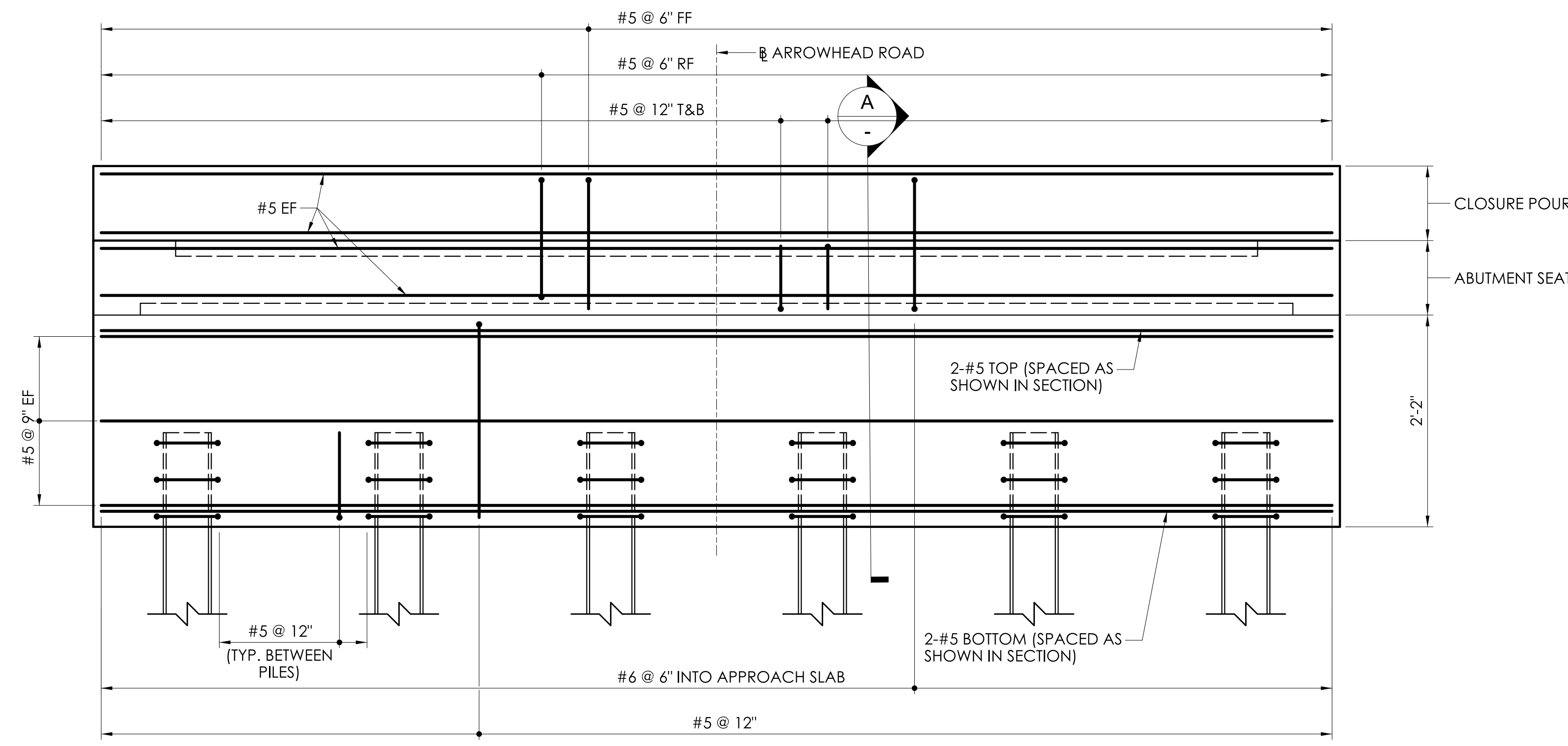
M M
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175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

TOWN OF WILTON

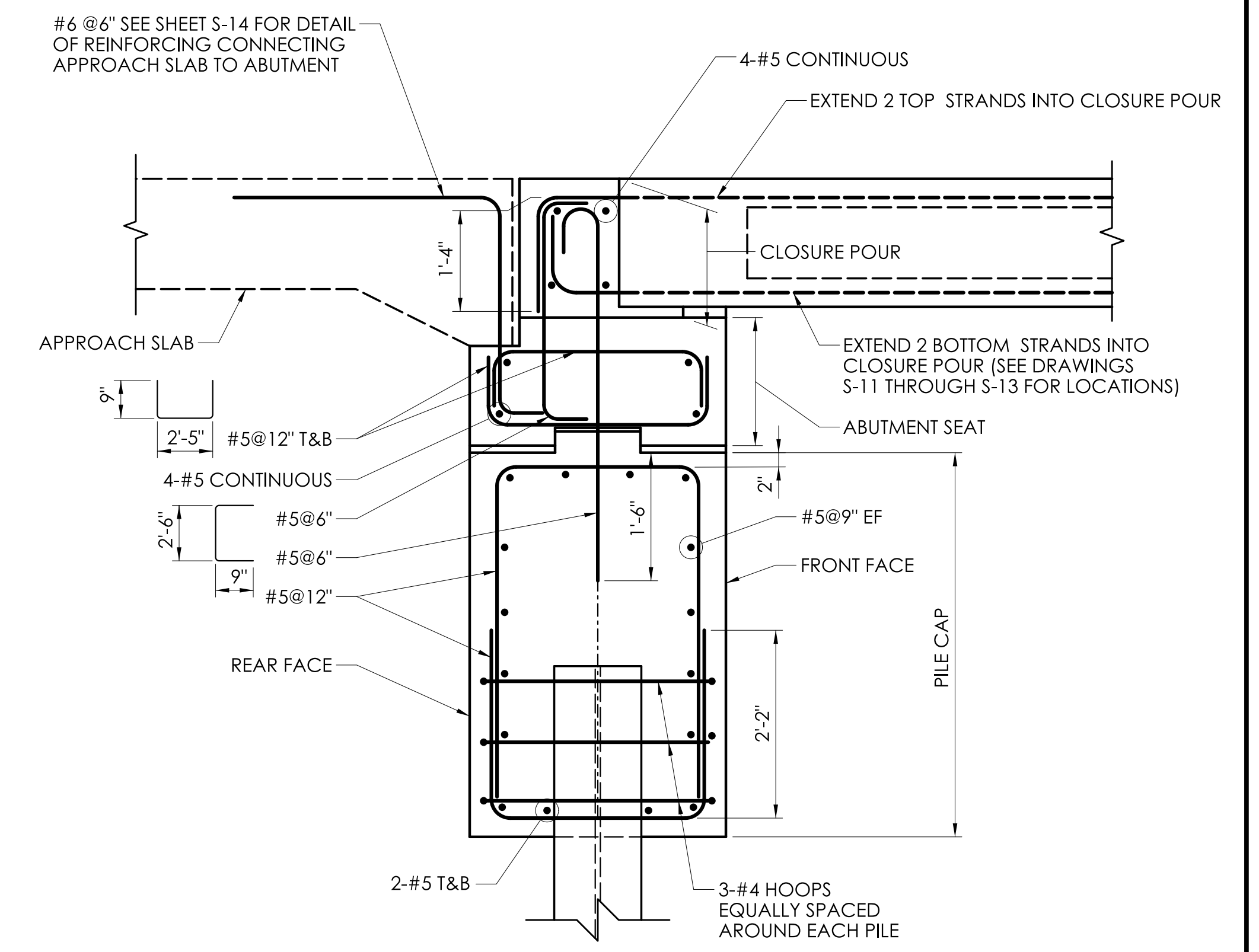
PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: ABUTMENT NO. 2 AND WINGWALLS 2A & 2B

FDP SUBMISSION
SEPTEMBER 28, 2022

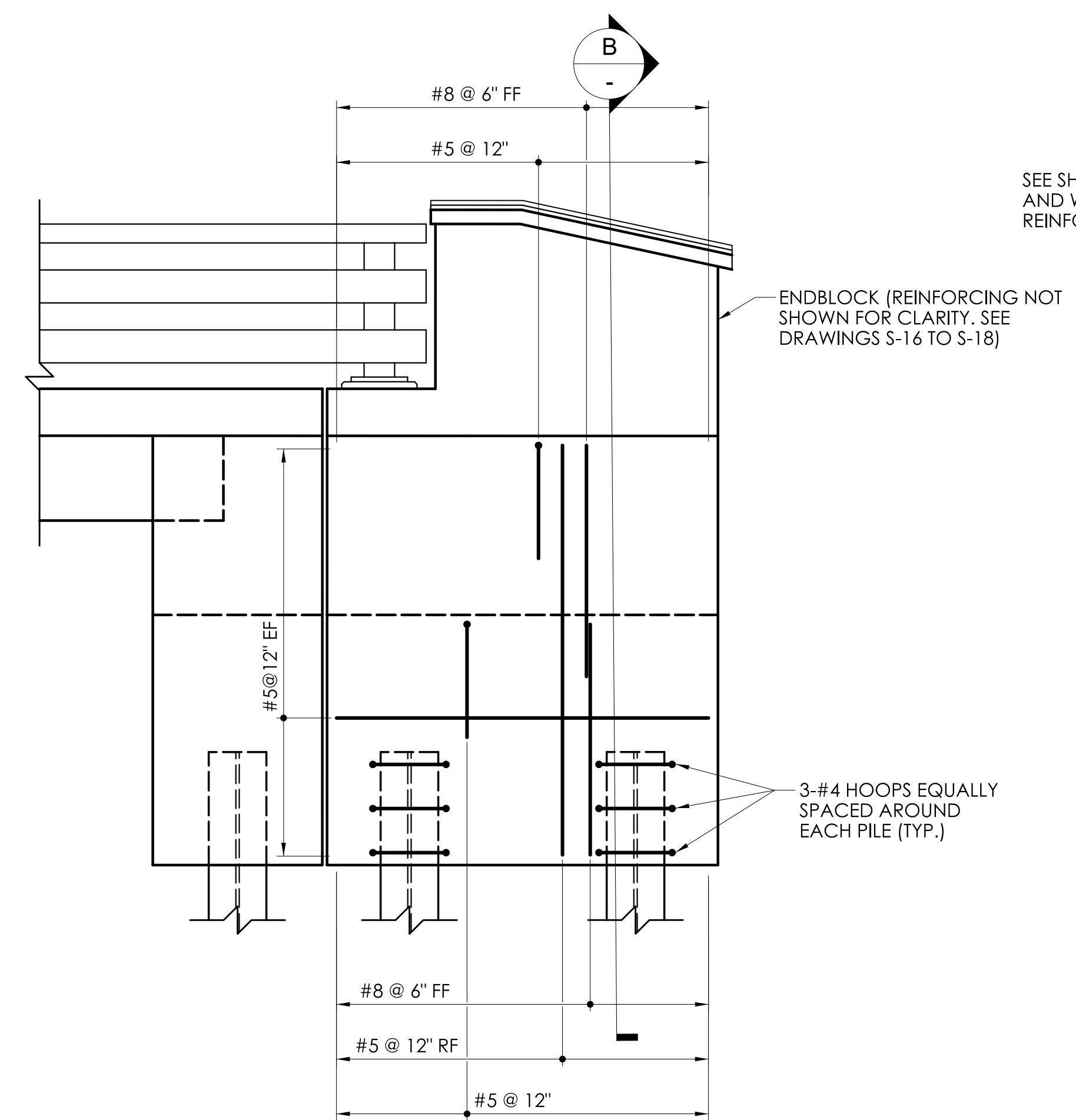
DRAWING NO. S-08
SHEET NO. 05.08



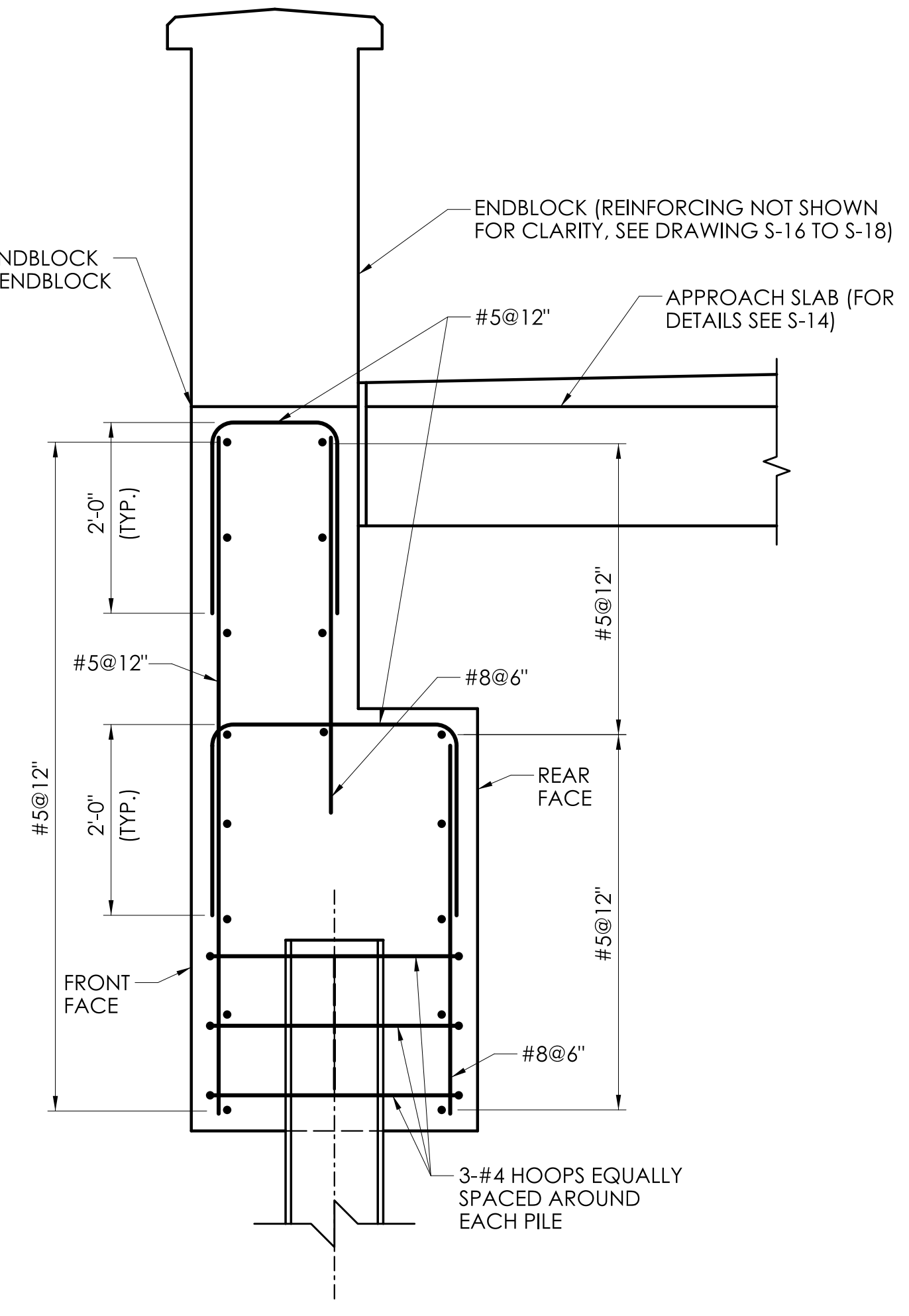
TYPICAL ABUTMENT REINFORCEMENT ELEVATION
SCALE: 1/2" = 1'-0"



SECTION A
TYPICAL ABUTMENT REINFORCING
SCALE: 3/4" = 1'-0"



TYPICAL WINGWALL REINFORCEMENT ELEVATION
SCALE: 1/2" = 1'-0"



SECTION B
TYPICAL WINGWALL REINFORCING
SCALE: 3/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.

SCALE AS NOTED

SIGNATURE/BLOCK: Mott MacDonald
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067

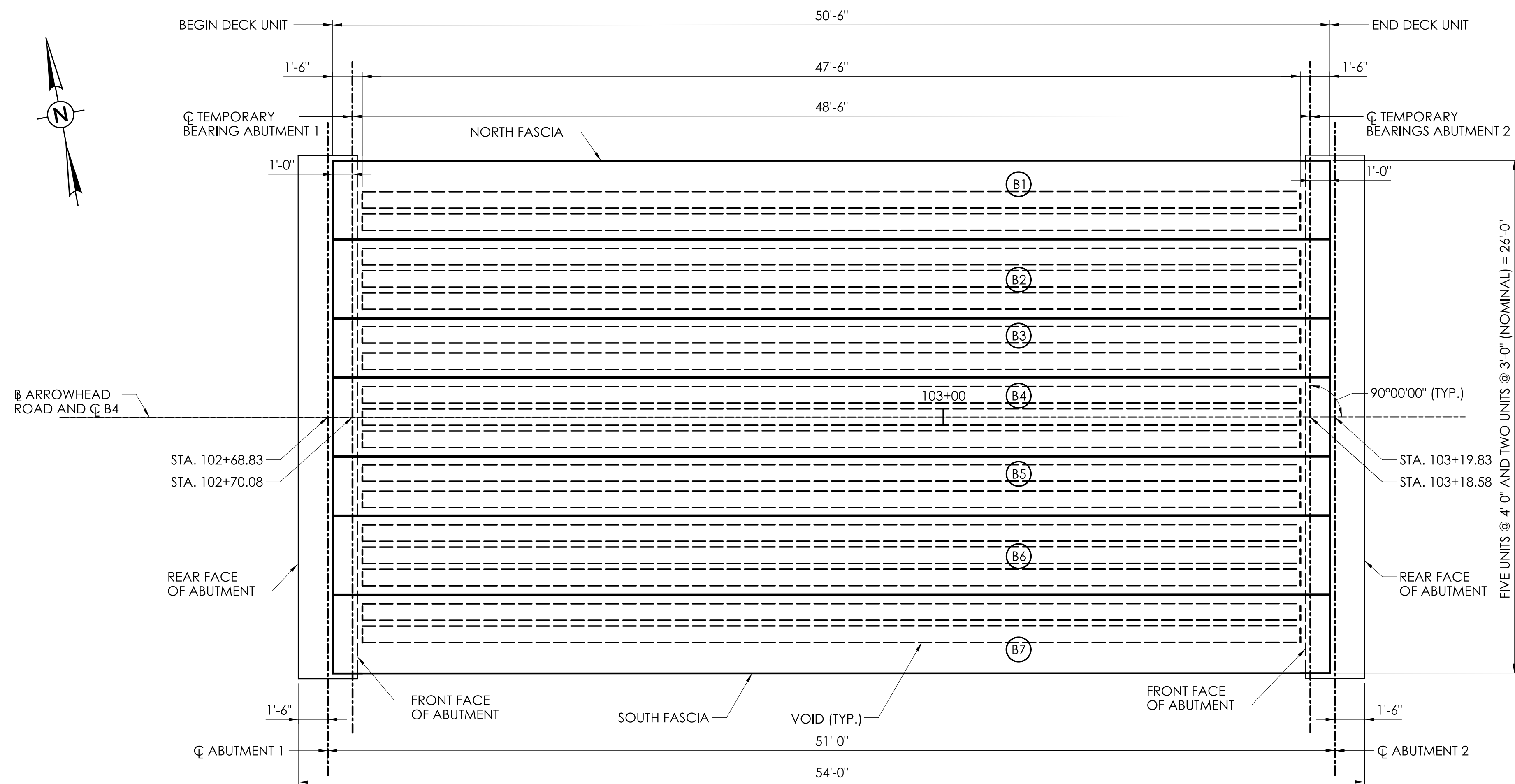
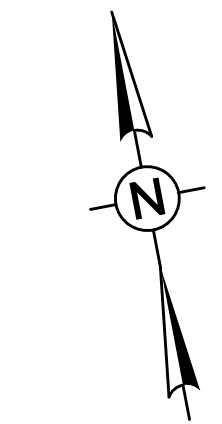
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175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

TOWN OF WILTON

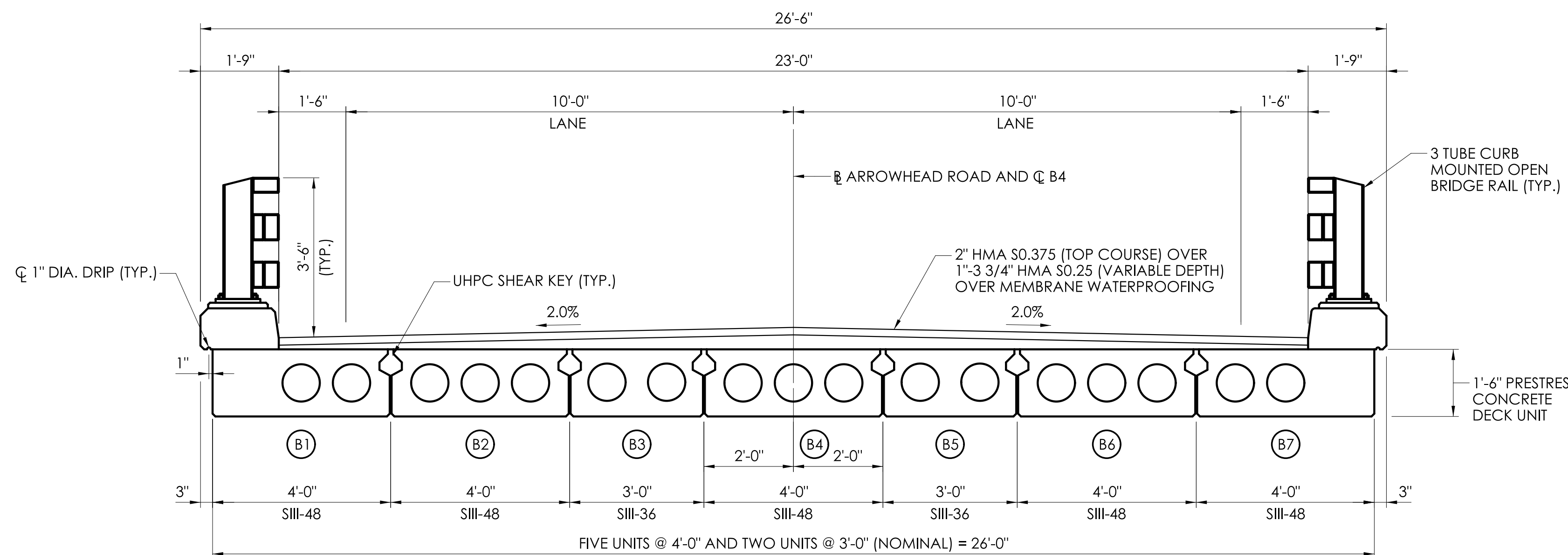
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PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: SUBSTRUCTURE REINFORCING

FDP SUBMISSION
SEPTEMBER 28, 2022

DRAWING NO. S-09
SHEET NO. 05.09



FRAMING PLAN
SCALE: 1/4" = 1'-0"



BRIDGE SECTION
SCALE: 1/2" = 1'-0"

STRAND TABLE					
CENTER OF GRAVITY OF STRANDS					
BEAM	NO. STRANDS	STA. 102+70.80 TO STA. 102+73.80	STA. 102+73.80 TO STA. 103+15.58	STA. 103+15.58 TO STA. 103+18.58	
B1 & B7	SIII-48	22	3.889	3.545	3.889
B2, B4 AND B6	SIII-48	22	4.333	3.909	4.333
B3 AND B5	SIII-36	18	4.375	4.111	4.375

* THE CENTER OF GRAVITY OF STRANDS IS MEASURED FROM THE BOTTOM OF THE BEAM AND IS BASED ON THE GROSS NON-COMPOSITE SECTION

PRESTRESSED DECK UNIT NOTES:

- PRESTRESSED DECK UNITS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
F'ci = 8 KSI
F'c = 10 KSI
- PRESTRESSED STRANDS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS. 0.6" DIAMETER, UNCOATED, 7 WIRE, LOW RELAXATION STRANDS CONFORMING TO THE REQUIREMENTS OF AASHTO M203, GRADE 270:
ULTIMATE STRENGTH (F's) = 270,000 PSI
JACKING TENSION (Fj) = 31,000 LBS. PER STRAND
- PRESTRESSED STRANDS SHALL BE PLACED 2" MINIMUM ON CENTER AND SHALL HAVE A MINIMUM COVER OF 2".
- ENDS OF THE DECK UNITS SHALL BE VERTICAL AFTER APPLICATION OF FULL DEAD LOAD.
- THE DRILLING OF HOLES IN PRESTRESSED DECK UNITS, OR THE USE OF POWDER ACTUATED TOOLS ON PRESTRESSED DECK UNITS WILL NOT BE PERMITTED.
- NO ADDITIONAL DEAD LOADS OR LIVE LOADS SHALL BE APPLIED TO THE PRESTRESSED DECK UNITS UNTIL UHPC KEYWAYS ARE FULLY FILLED AND UHPC IN THE LONGITUDINAL SHEAR KEYS HAVE REACHED A SEVEN-DAY COMPRESSIVE STRENGTH OF 14 KSI.
- THE DECK UNITS SHALL BE PLACED AT THE NOMINAL SPACING SHOWN ON THE PLANS WITH A 1/2" WIDE GAP BETWEEN THE BOTTOM OF THE UNITS. THE WIDTH OF THIS GAP CAN VARY DUE TO SWEEP OF THE BEAMS.
- MILD REINFORCING STEEL SHALL BE GALVANIZED ASTM A615 GRADE 60.
- SHEAR KEY SHALL BE OMITTED ON OUTSIDE FACE OF FASCIA BEAMS.
- THE CONTRACTOR SHALL MANUFACTURE AND CONSTRUCT DECK UNITS IN ACCORDANCE WITH SPECIAL PROVISIONS FOR "PRESTRESSED DECK UNITS".
- ALL INSERTS OR HOLES CAST INTO THE DECK UNITS FOR THE PURPOSE OF HANDLING AND SETTING THE UNITS SHALL BE SEALED WITH GROUT TO A SMOOTH FINISH UPON COMPLETION OF THE WORK.
- THE COST OF FURNISHING INSERTS SHALL BE INCLUDED IN THE ITEMS 0514223A AND 0514203A PRESTRESSED DECK UNITS.
- LIFTING HOOKS SHALL BE PLACED IN LINE WITH THE CENTER LINE OF THE TEMPORARY BEARINGS AND SHALL BE INSTALLED PER THE FABRICATOR'S STANDARD DETAILS. THE FABRICATOR IS FULLY RESPONSIBLE FOR THE DESIGN OF THE LIFTING DEVICES WHICH SHALL BE ADEQUATE FOR THE SAFETY FACTORS REQUIRED BY THE ERECTION PROCEDURE.

FINISHED GRADE ELEVATIONS (TOP OF PAVEMENT)

BEAM NO.	CL BEARING ABUTMENT 1	SPAN (L = 48'-6")										CL BEARING ABUTMENT 2
		0.1L	0.2L	0.3	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L		
B1	141.92	142.00	142.06	142.11	142.15	142.18	142.20	142.20	142.19	142.17	142.13	
B2	142.00	142.08	142.14	142.19	142.23	142.26	142.28	142.28	142.27	142.25	142.21	
B3	142.07	142.15	142.21	142.26	142.30	142.33	142.35	142.35	142.34	142.32	142.28	
B4	142.14	142.22	142.28	142.33	142.37	142.40	142.42	142.42	142.41	142.39	142.35	
B5	142.07	142.15	142.21	142.26	142.30	142.33	142.35	142.35	142.34	142.32	142.28	
B6	142.00	142.08	142.14	142.19	142.23	142.26	142.28	142.28	142.27	142.25	142.21	
B7	141.92	142.00	142.06	142.11	142.15	142.18	142.20	142.20	142.19	142.17	142.13	

CAMBER NOTES:

AT TRANSFER: CAMBER DUE TO PRESTRESS FORCE AT TRANSFER MINUS THE DEFLECTION DUE TO BEAM WEIGHT.

AT ERECTION: CAMBER (DUE TO PRESTRESS FORCE AT TRANSFER MINUS DEFLECTION DUE TO BEAM WEIGHT) THAT IS PRESENT AT APPROXIMATELY 30-60 DAYS AFTER TRANSFER.

FINAL: LONG-TERM CAMBER THAT IS PRESENT AFTER ALL DEAD LOADS ARE APPLIED TO THE STRUCTURE AND AFTER LONG TERM CREEP AND RELAXATION HAVE TAKEN PLACE.

POSITIVE VALUES IN THE CAMBER TABLE INDICATE UPWARD CAMBER.

BEAM NO.	ESTIMATED CAMBER AT MIDSPAN (INCHES)		
	AT TRANSFER	AT ERECTION	FINAL
B1 & B7	0.99	1.33	0.99
B2, B4 & B6	0.99	1.35	1.04
B3 & B5	1.03	1.43	1.15

BEAM DEAD LOAD DEFLECTION TABLE NOTES:

"SELF" IS THE DEFLECTION DUE TO THE GIRDER SELF-WEIGHT AT 30 DAYS.

"PDL" IS PRE-COMPOSITE DEAD LOAD DEFLECTION DUE TO THE WEIGHT OF THE CURB.

"SDL" IS THE DEFLECTION DUE TO THE SUPERIMPOSED DEAD LOAD (RAILING LOADS AND ASPHALT OVERLAY)

ALL DEFLECTIONS ARE IN INCHES AND ARE COMPUTED AT THE MIDSPAN OF THE GIRDER.

POSITIVE DEFLECTION VALUES INDICATE DOWNWARD DEFLECTION.

BEAM NO.	DEAD LOAD DEFLECTIONS AT MIDSPAN (INCHES)		
	SELF	PDL	SDL
B1 & B7	1.67	0.81	0.41
B2, B4 & B6	1.51	0.78	0.40
B3 & B5	1.56	0.77	0.40

FDP SUBMISSION
SEPTEMBER 28, 2022

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.

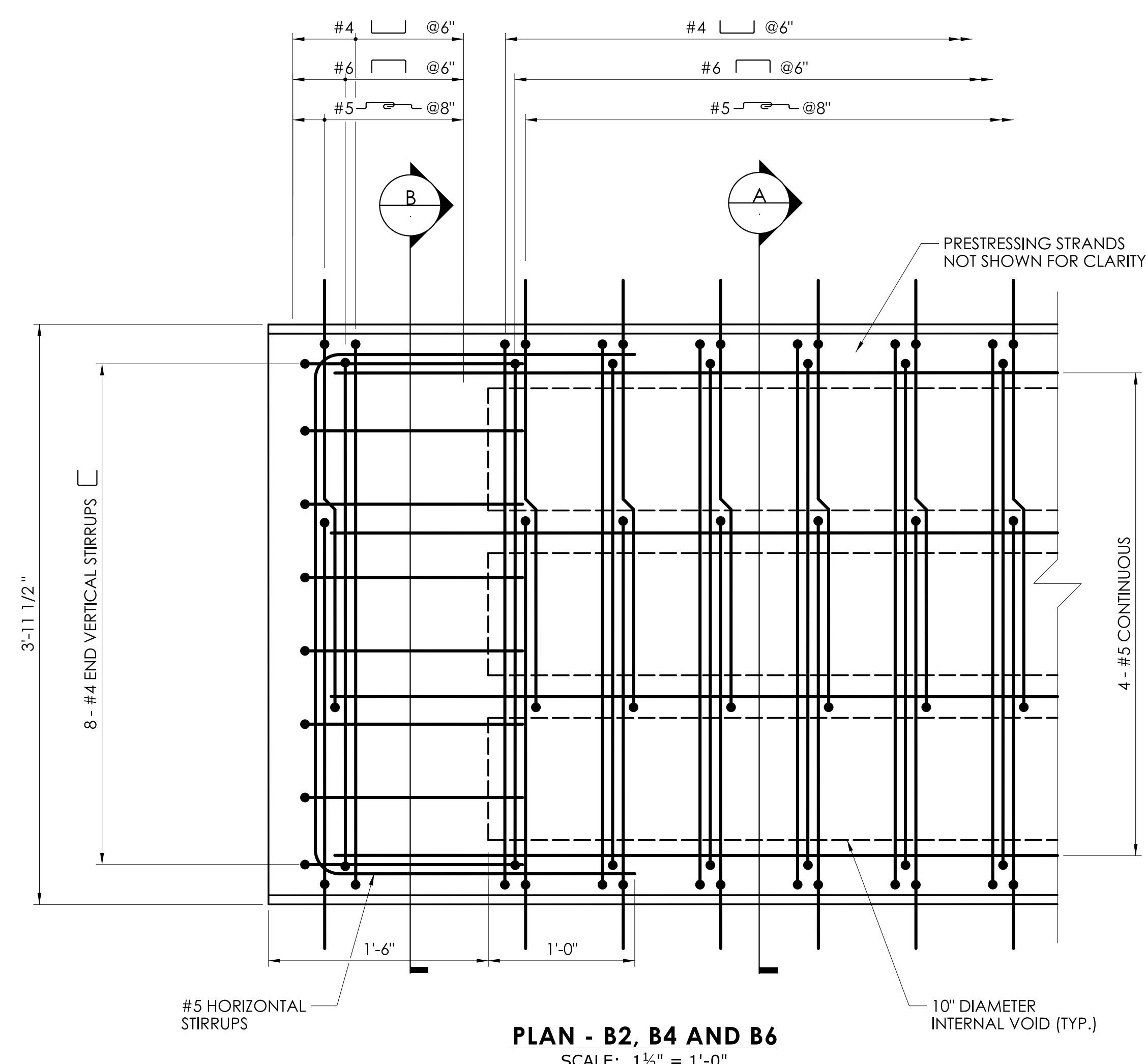
SIGNATURE/BLOCK:

MOTT MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

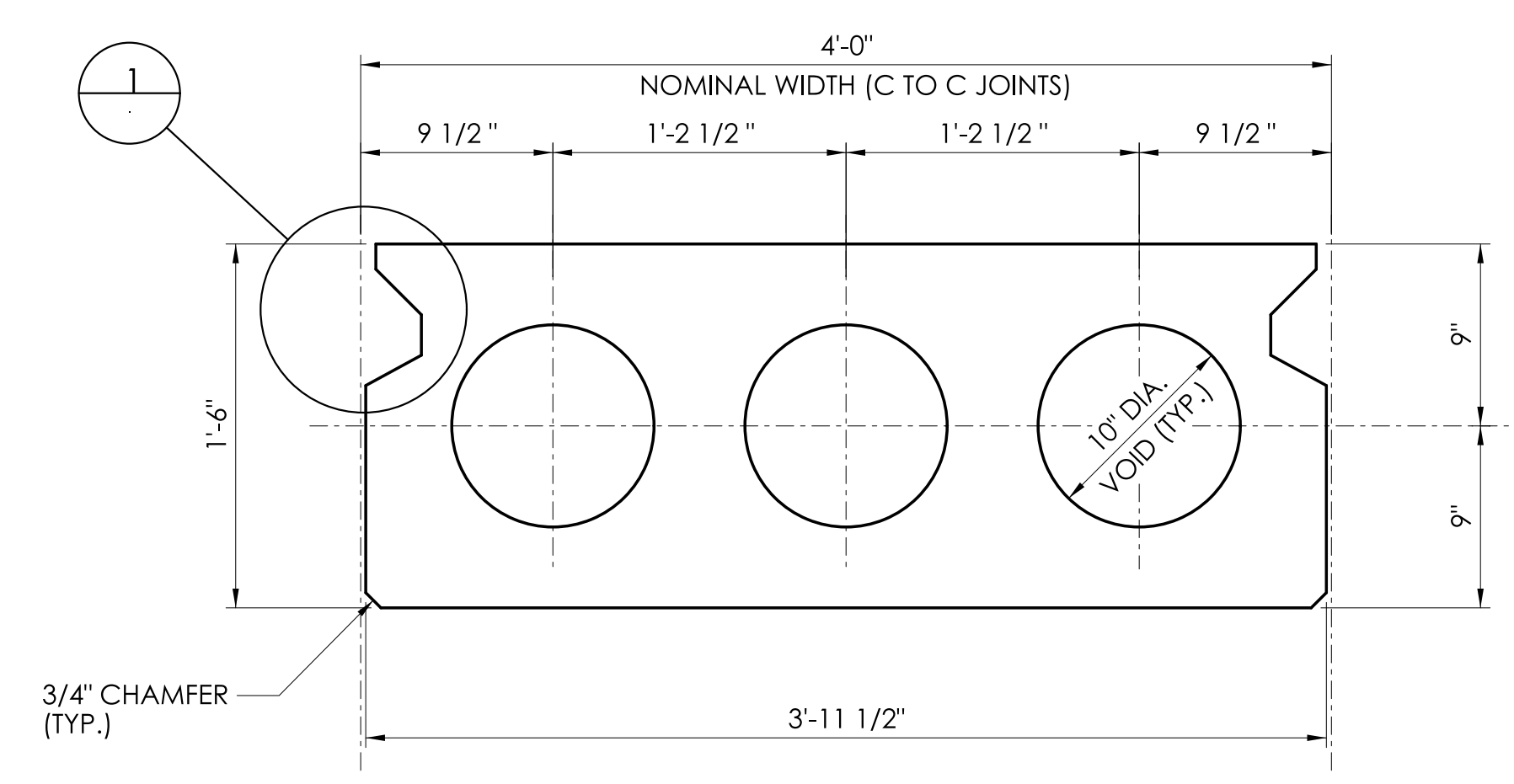
TOWN OF WILTON

PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: FRAMING PLAN

DRAWING NO. S-10
SHEET NO. 05.10



PLAN - B2, B4 AND B6
SCALE: 1 1/2" = 1'-0"



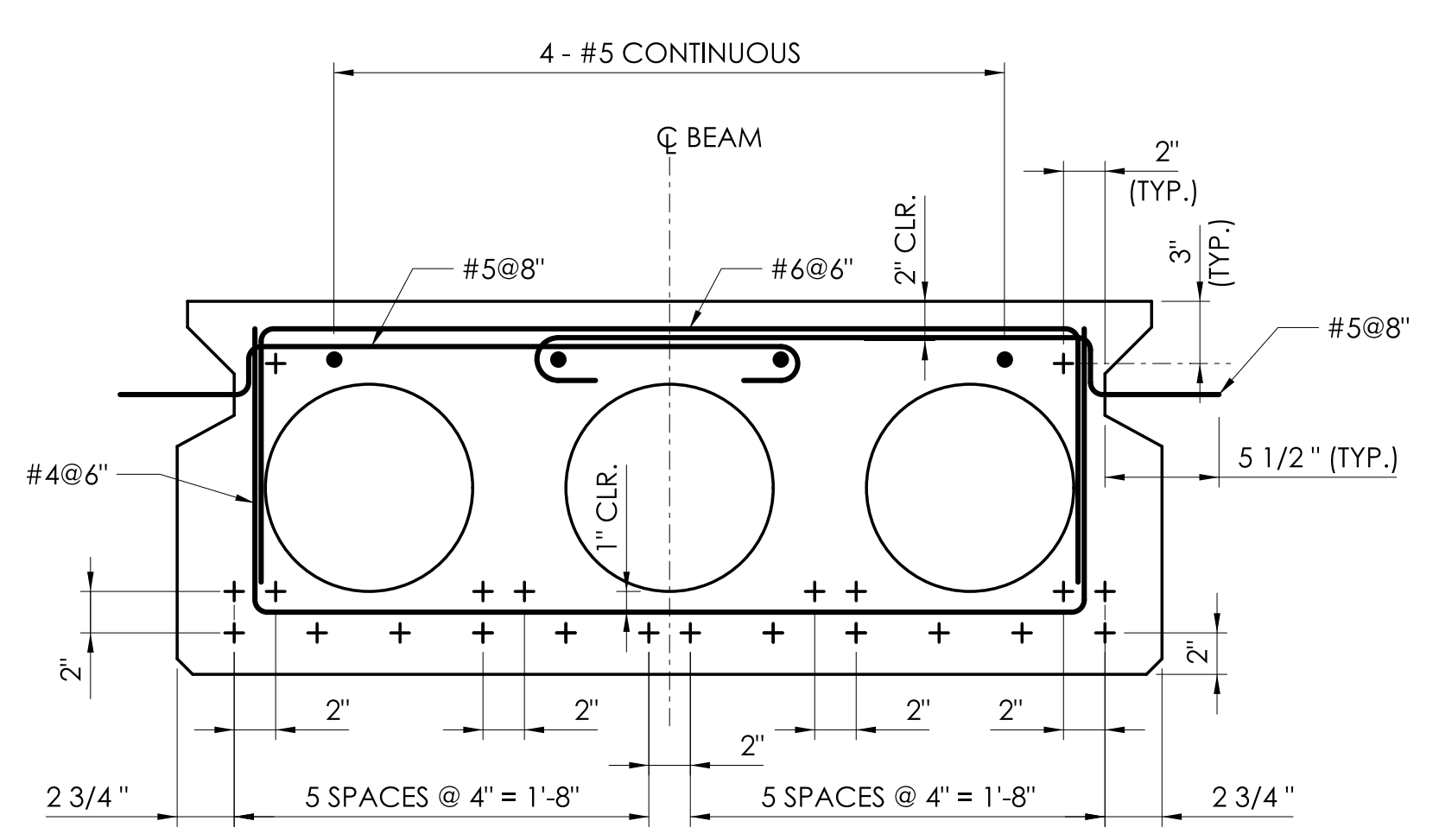
TYPICAL SECTION - B2, B4 AND B6
SCALE: 1 1/2" = 1'-0"

UHPC SHEAR KEY NOTES:

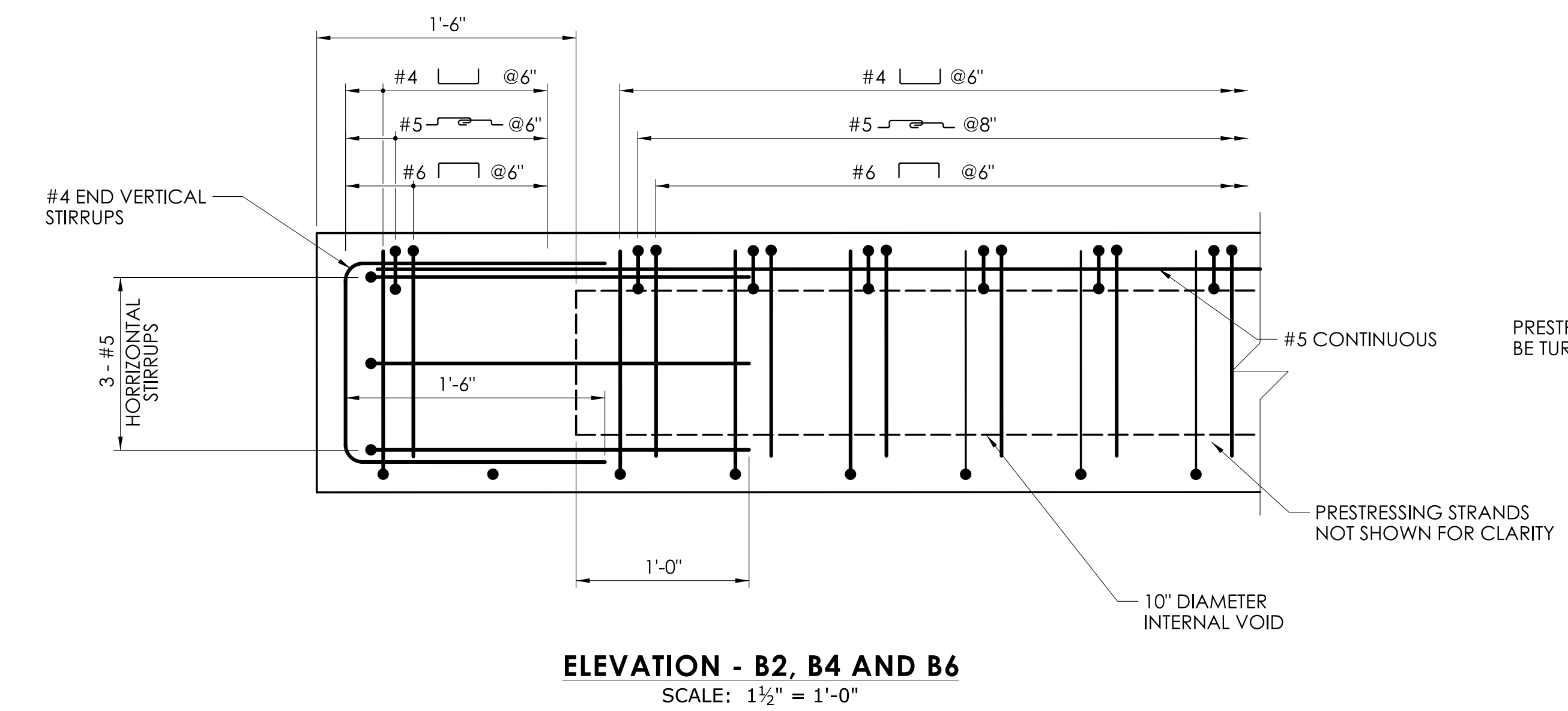
1. SHEAR KEYS TO BE FILLED WITH UHPC SHALL BE ROUGHENED AND CLEANED PRIOR TO BEAM PLACEMENT. TO BE PAID FOR UNDER ITEM 0601054A ULTRA HIGH PERFORMANCE CONCRETE. SEE SPECIAL PROVISIONS.
2. SECURE SPLICE BARS TO BEAM AFTER ROUGHENING CONCRETE BUT PRIOR TO BEAM PLACEMENT IF OPTIONAL BAR SPLICER IS USED.
3. WET KEYWAY SURFACES IMMEDIATELY PRIOR TO UHPC PLACEMENT.
4. AFTER FINAL BEAM PLACEMENT, SHEAR KEYS SHALL BE FILLED WITH ULTRA HIGH PERFORMANCE CONCRETE (UHPC) IN ONE CONTINUOUS POUR PER KEY. UHPC SHALL BE FORCED INTO THE KEYWAY AT THE BLOCKOUT LOCATIONS UTILIZING RESERVOIRS OF UHPC ABOVE EACH BLOCKOUT TO FILL AND SELF CONSOLIDATE THE MATERIAL INSIDE THE KEYWAY VIA HYDROSTATIC PRESSURE.
5. FORMWORK OVER KEYWAY AND AT BEAM ENDS SHALL BE WATER TIGHT TO CONTAIN THE UHPC. DESIGN FORMWORK TO SUPPORT A MINIMUM LINE LOAD OF AT LEAST 31 LB/FT TO RESIST THE HYDROSTATIC LOAD OF THE UHPC.
6. GRIND ANY UHPC OVERFLOW FLUSH AFTER CURING.

LEGEND:

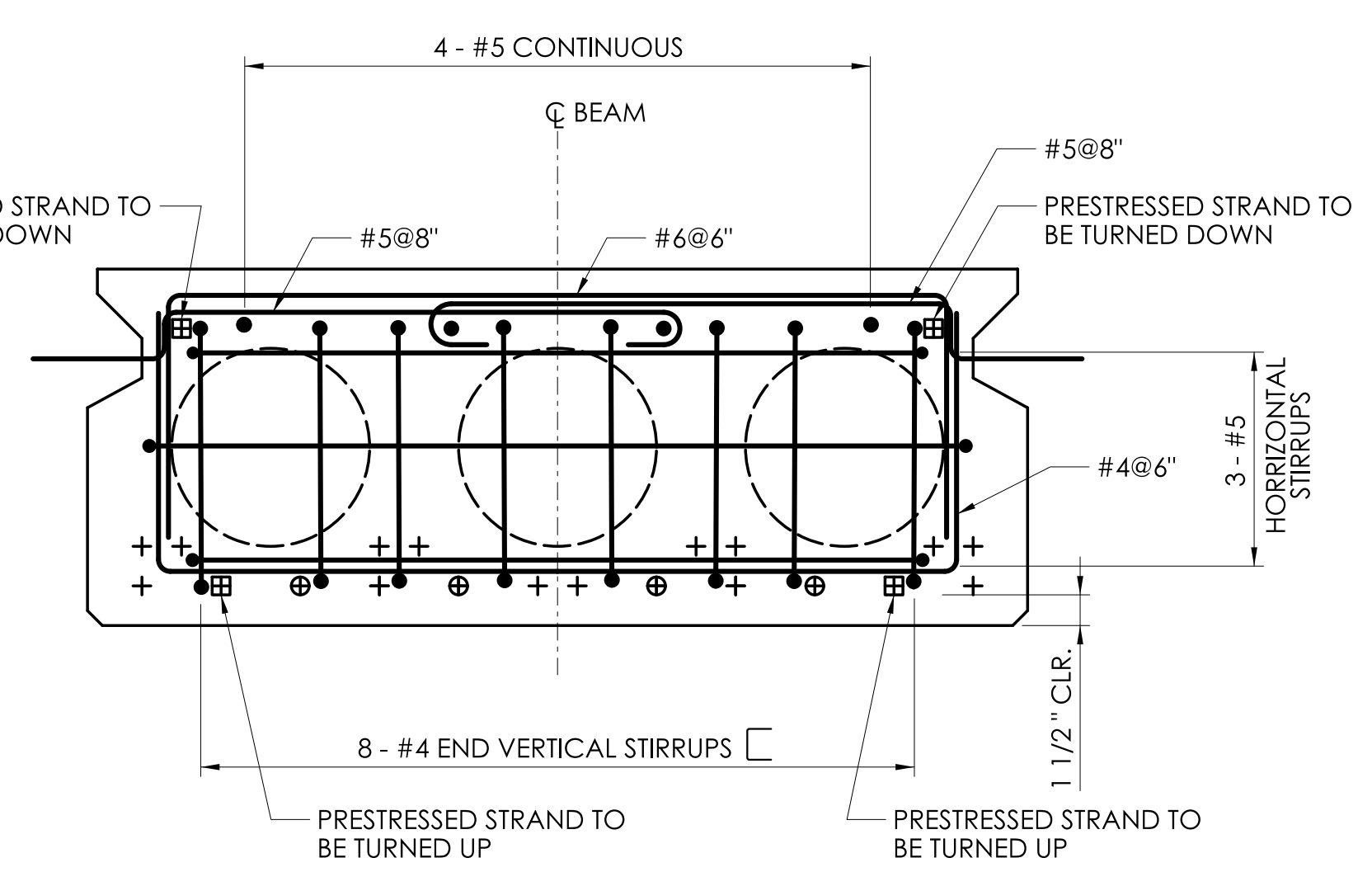
- + DENOTES STRAIGHT BONDED STRAND
- ⊕ DENOTES STRAIGHT DEBONDED STRAND
DEBONDED STRANDS ARE DEBONDED FOR 3'-0" FROM EACH END OF THE PRESTRESSED UNITS.
- ⊞ DENOTES STRAIGHT STRANDS EXTENDED TO THE CLOSURE POUR AND TURNED UP/DOWN



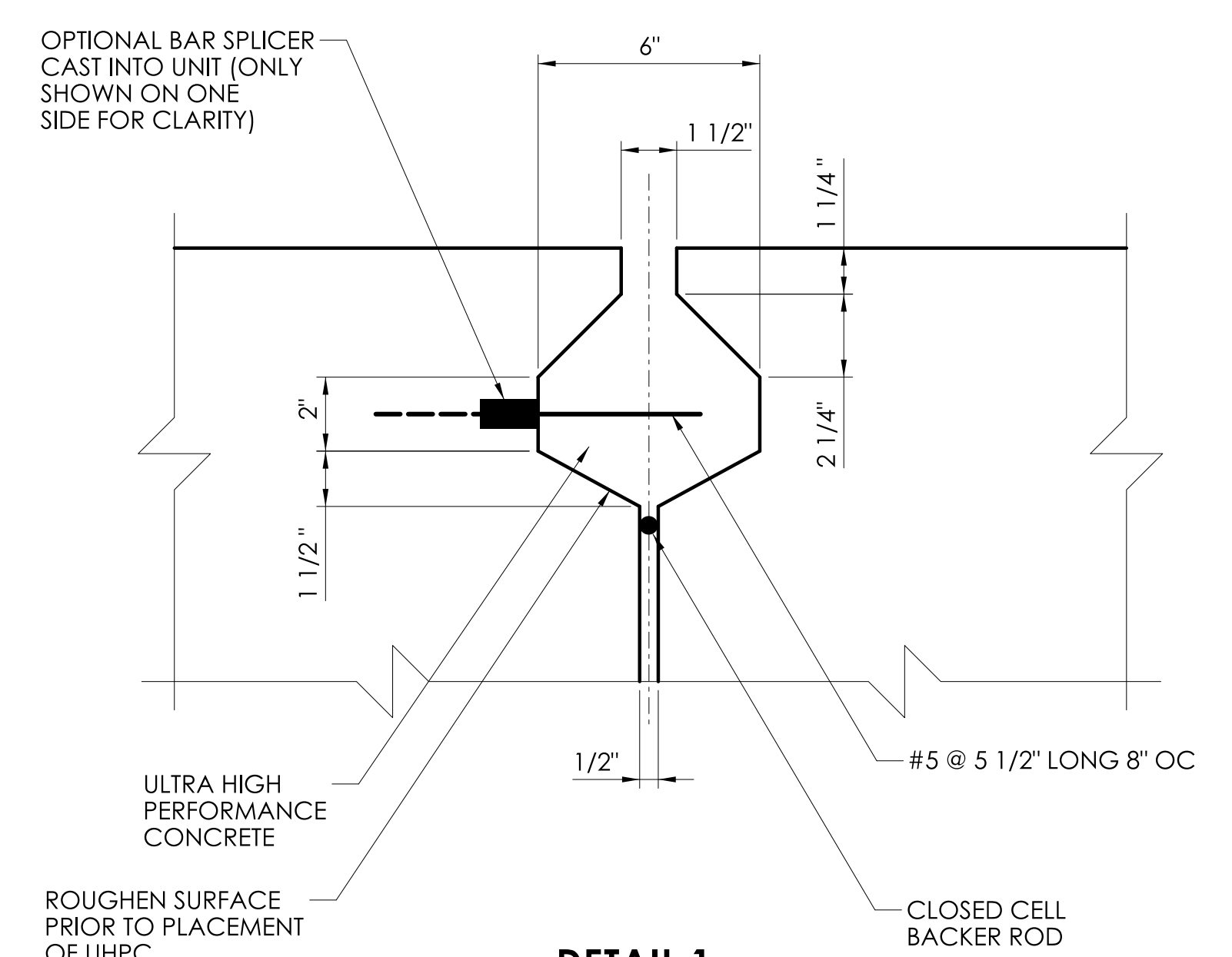
**SECTION A
TYPICAL REINFORCEMENT SECTION AT VOIDS**
SCALE: 1 1/2" = 1'-0"



ELEVATION - B2, B4 AND B6
SCALE: 1 1/2" = 1'-0"

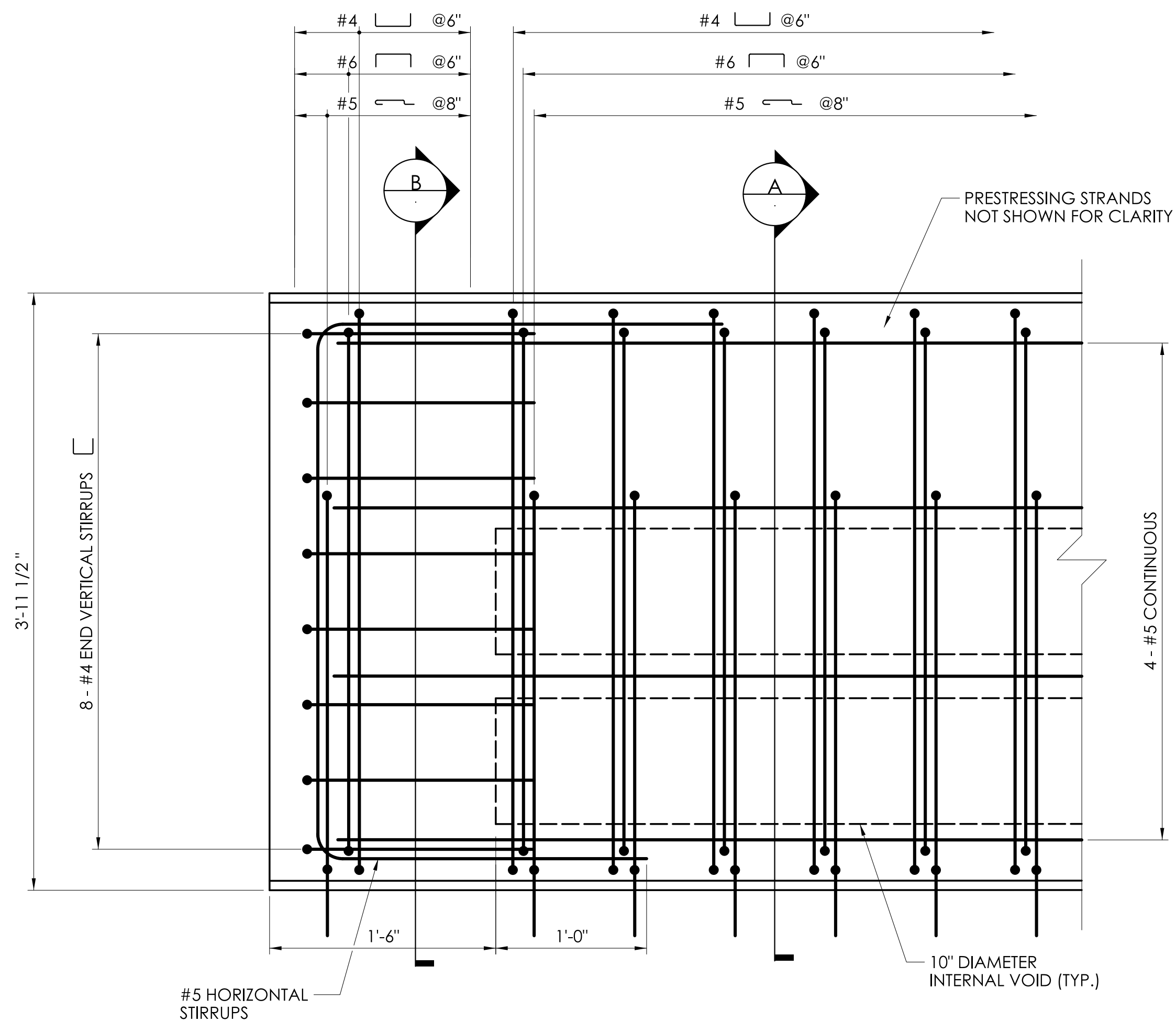


**SECTION B
TYPICAL REINFORCEMENT SECTION AT ENDS**
SCALE: 1 1/2" = 1'-0"

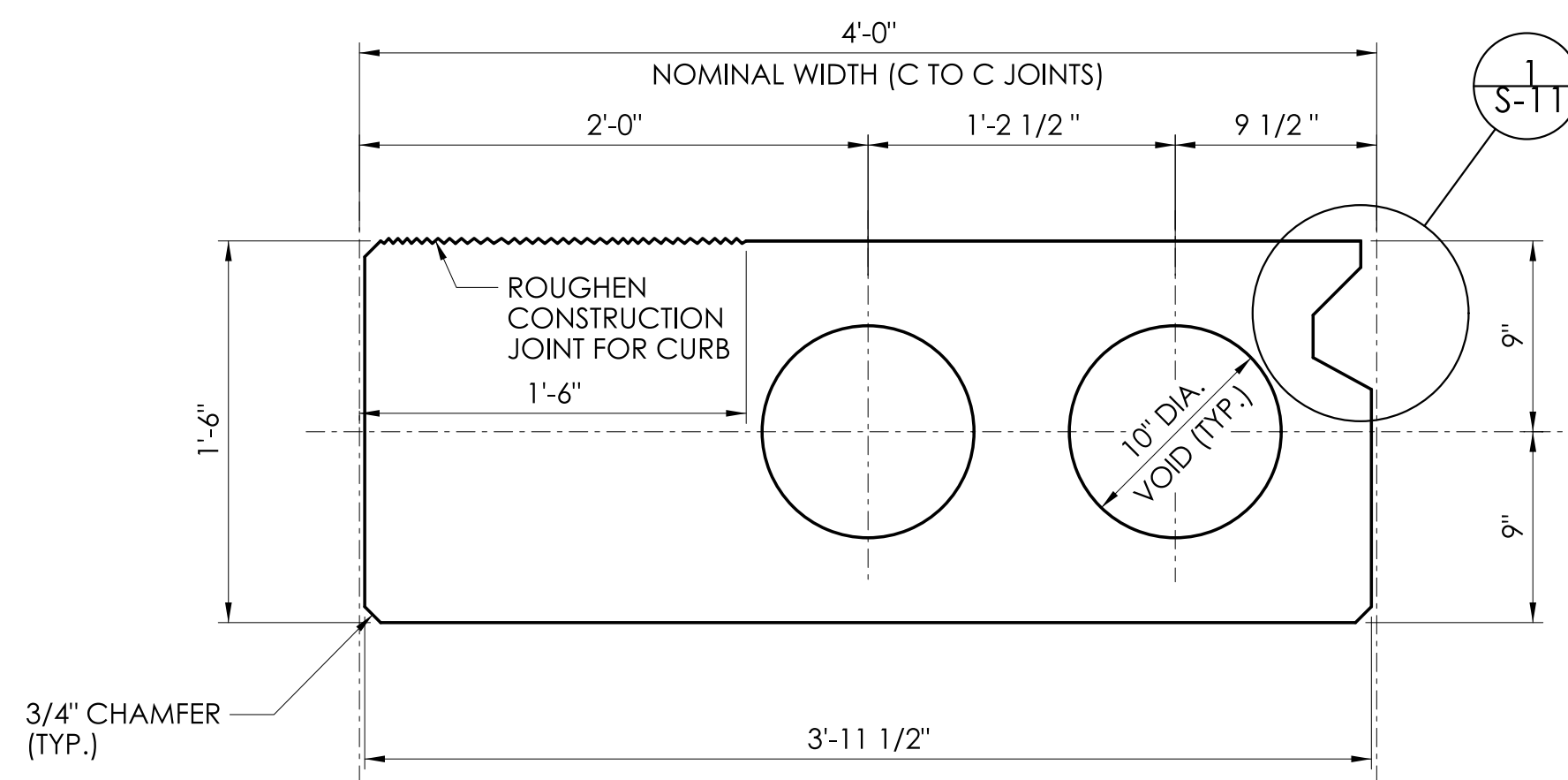


**DETAIL 1
SHEAR KEY**
SCALE: 3" = 1'-0"

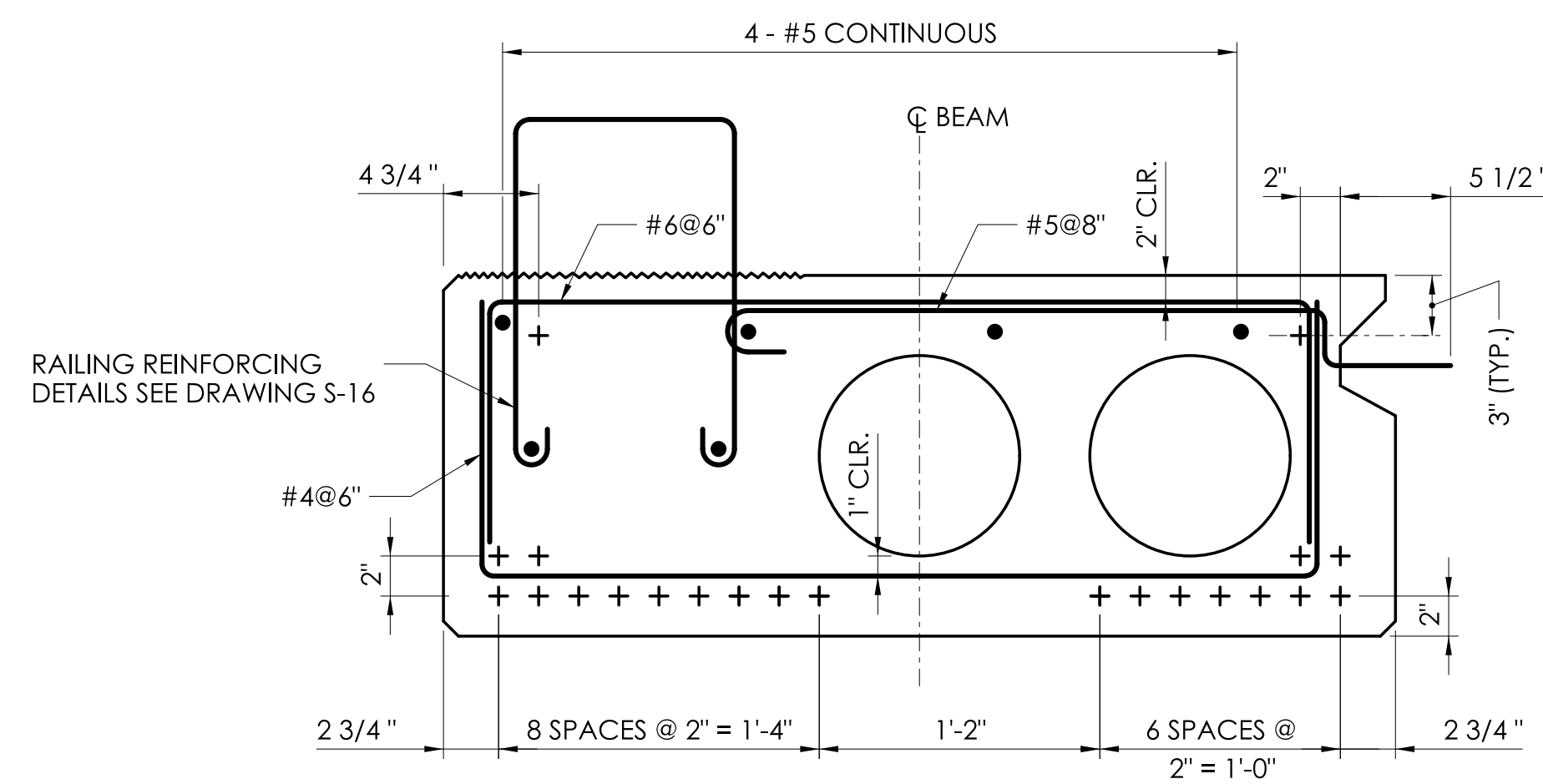
REV.	DATE	REVISION DESCRIPTION



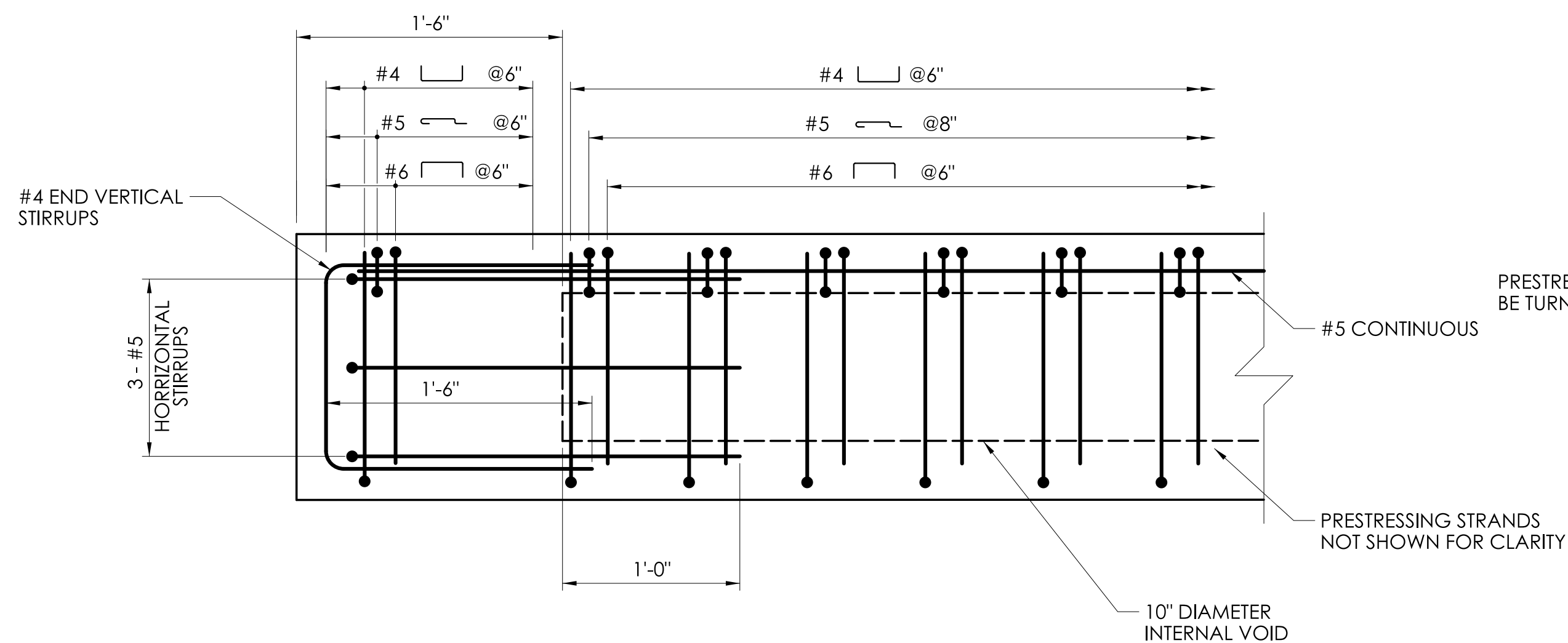
PLAN - B1 AND B7
(B1 SHOWN, B7 OPPOSITE)
SCALE: 1 1/2" = 1'-0"



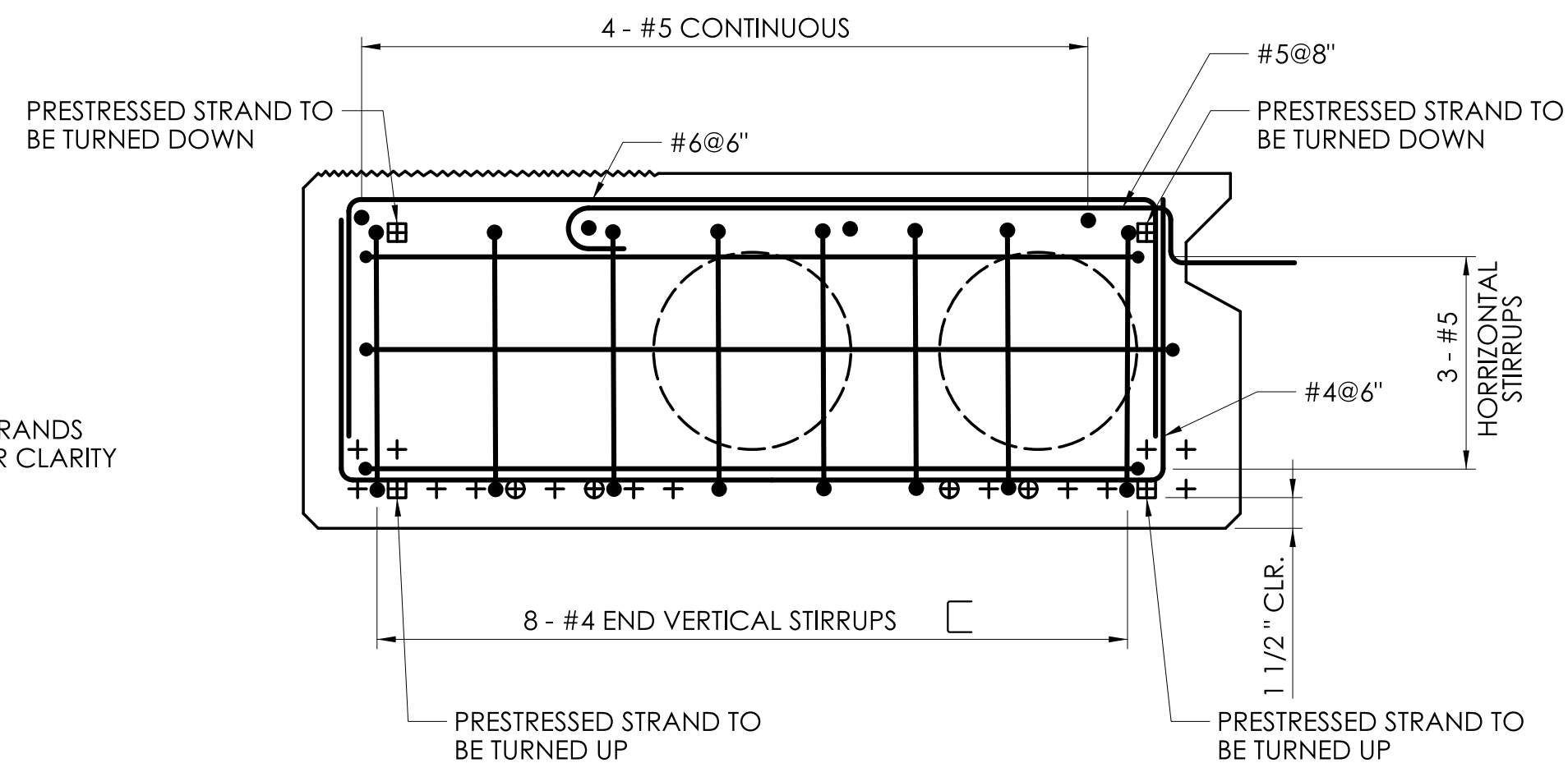
TYPICAL SECTION - B1 AND B7
(B1 SHOWN, B7 OPPOSITE)
SCALE: 1 1/2" = 1'-0"



SECTION A
TYPICAL REINFORCEMENT SECTION AT VOIDS
(B1 SHOWN, B7 OPPOSITE)
SCALE: 1 1/2" = 1'-0"



ELEVATION - B1 AND B7
SCALE: 1 1/2" = 1'-0"



SECTION B
TYPICAL REINFORCEMENT SECTION AT ENDS
(B1 SHOWN, B7 OPPOSITE)
SCALE: 1 1/2" = 1'-0"

LEGEND:

- + DENOTES STRAIGHT BONDED STRAND
- ⊕ DENOTES STRAIGHT DEBONDED STRAND
DEBONDED STRANDS ARE DEBONDED FOR 3'-0"
FROM EACH END OF THE PRESTRESSED UNITS.
- ⊞ DENOTES STRAIGHT STRANDS EXTENDED TO THE
CLOSURE POUR AND TURNED UP/DOWN

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.

SCALE: 1 1/2" = 1'-0"

SIGNATURE/BLOCK: Mott MacDonald
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067.

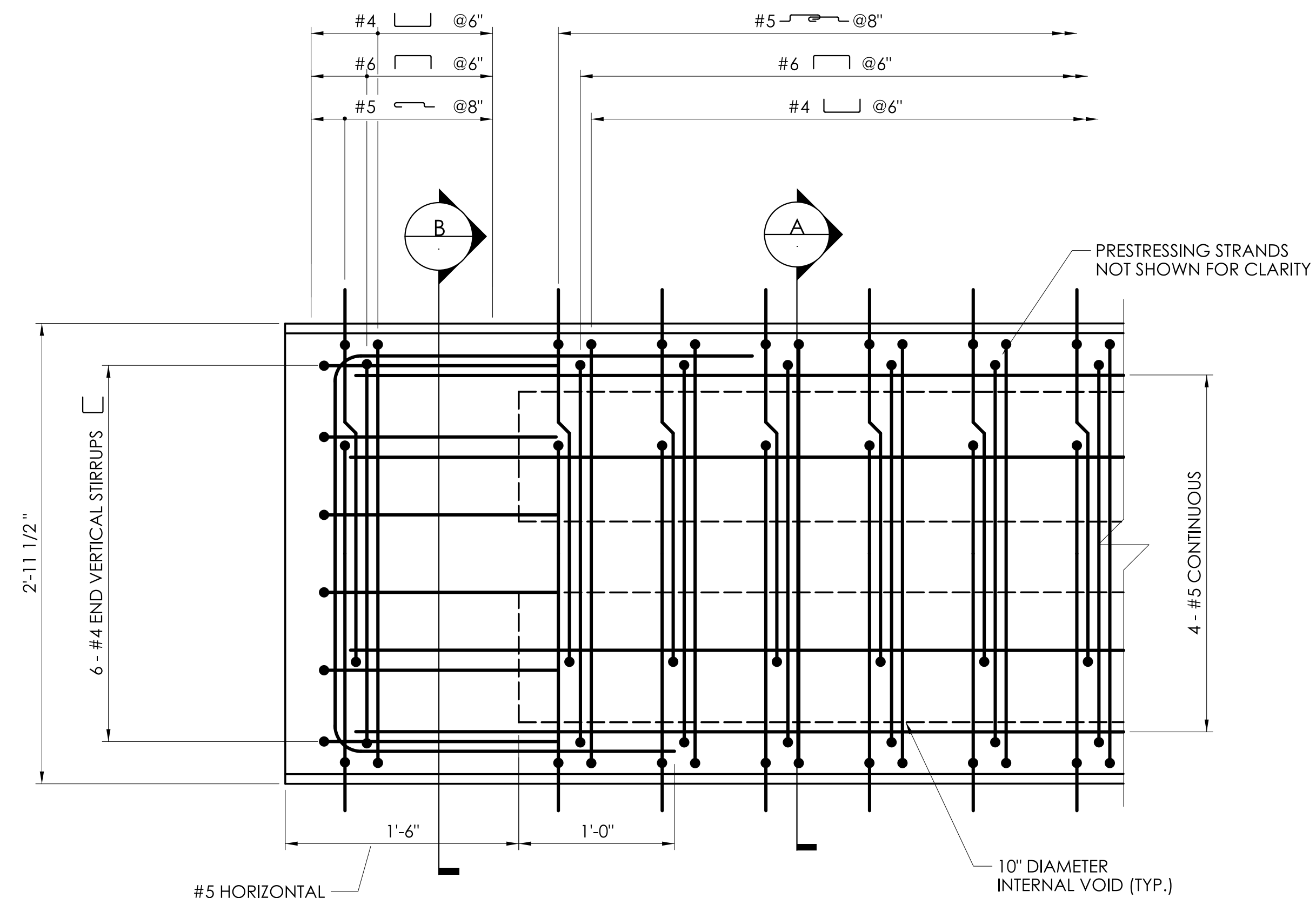
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MOTT
MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

TOWN
OF
WILTON

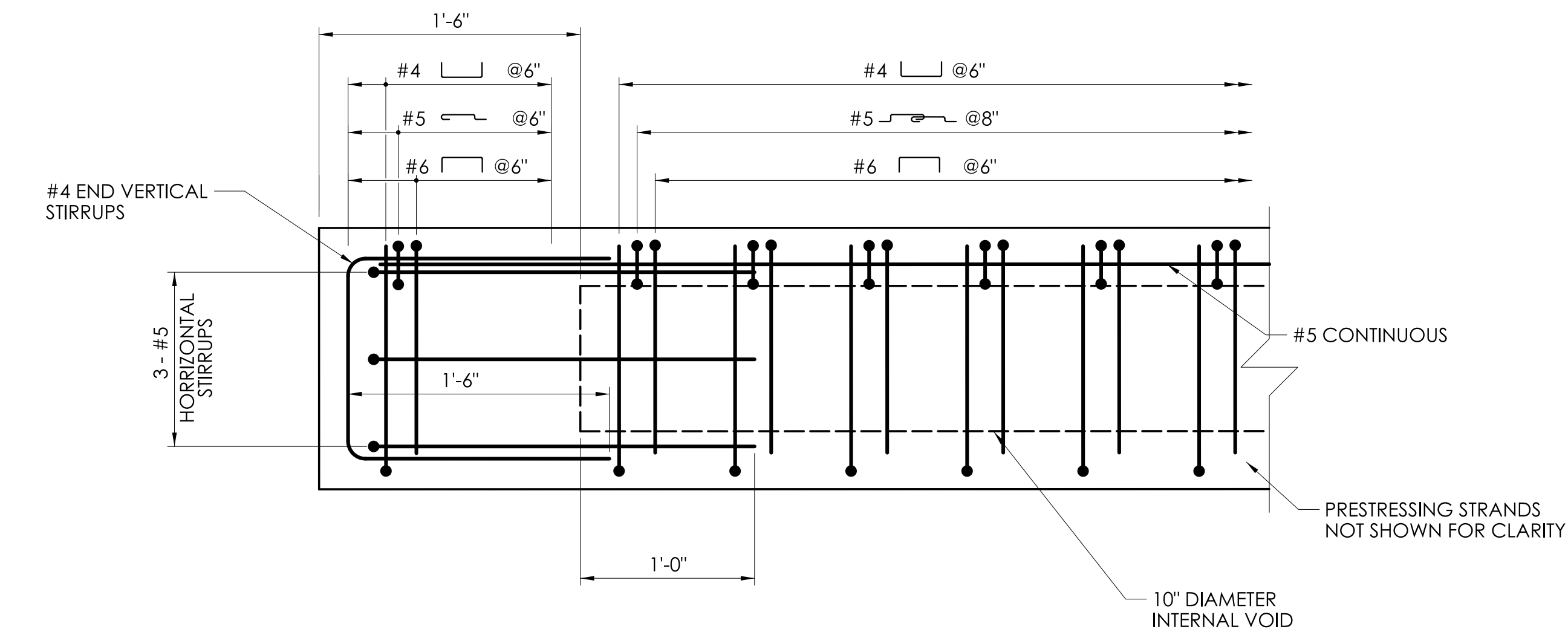
PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: PRESTRESSED CONCRETE DETAILS - 2

FDP SUBMISSION
SEPTEMBER 28, 2022

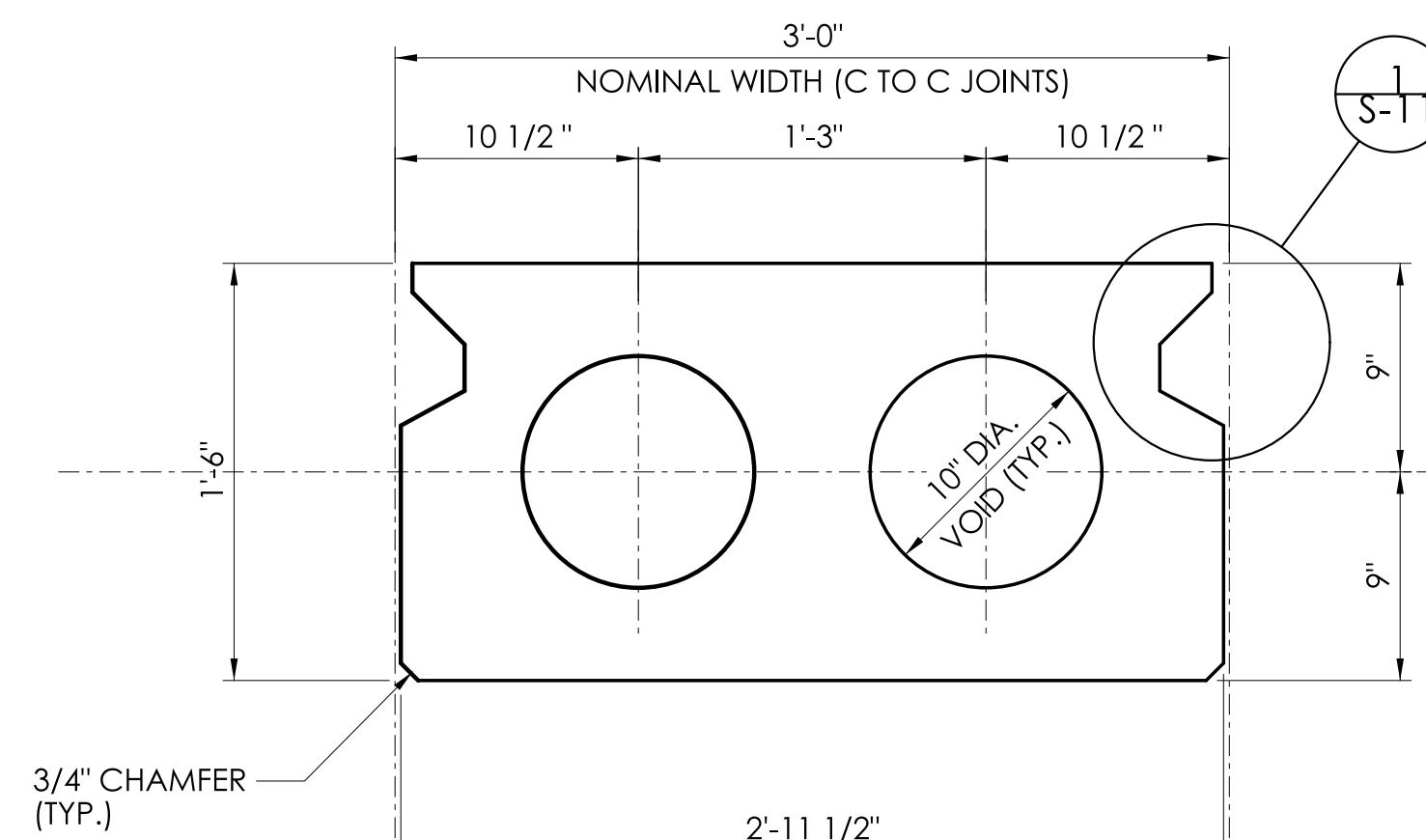
DRAWING NO.
S-12
SHEET NO.
05.12



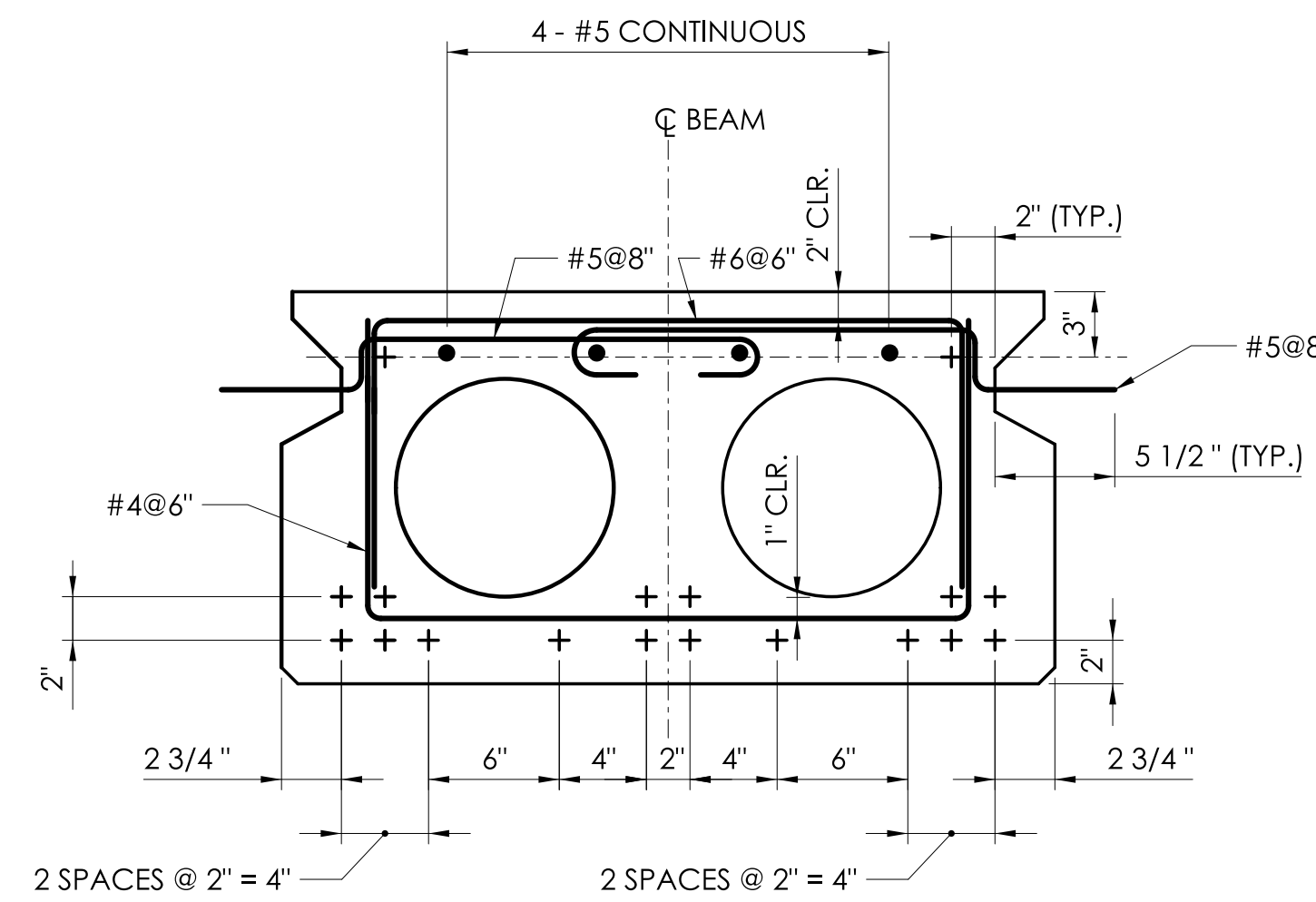
PLAN - B3 AND B5
SCALE: 1 1/2" = 1'-0"



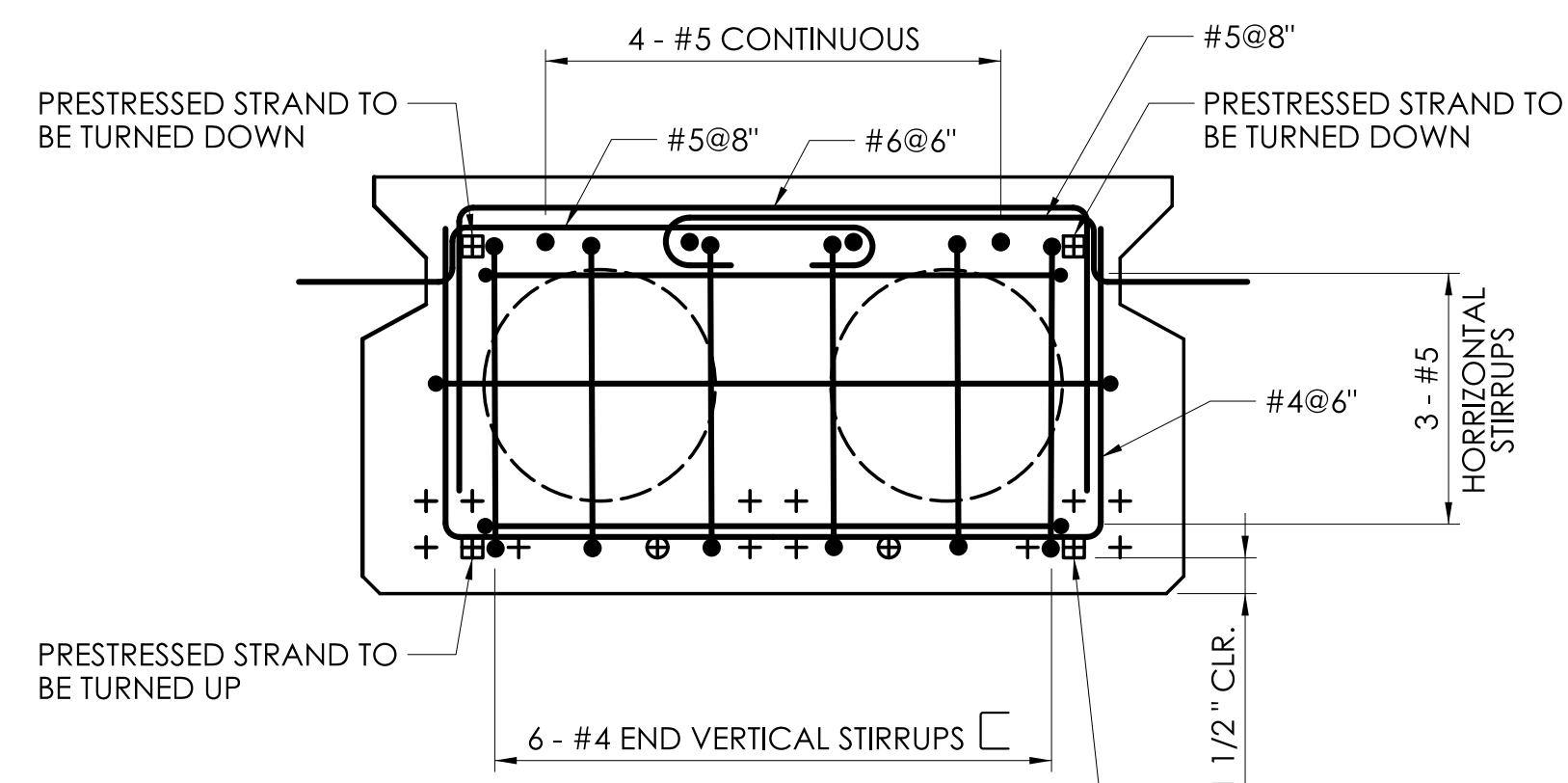
ELEVATION - B3 AND B5
SCALE: 1 1/2" = 1'-0"



TYPICAL SECTION - B3 AND B5
SCALE: 1 1/2" = 1'-0"



SECTION A
TYPICAL REINFORCEMENT SECTION AT VOIDS
SCALE: 1 1/2" = 1'-0"

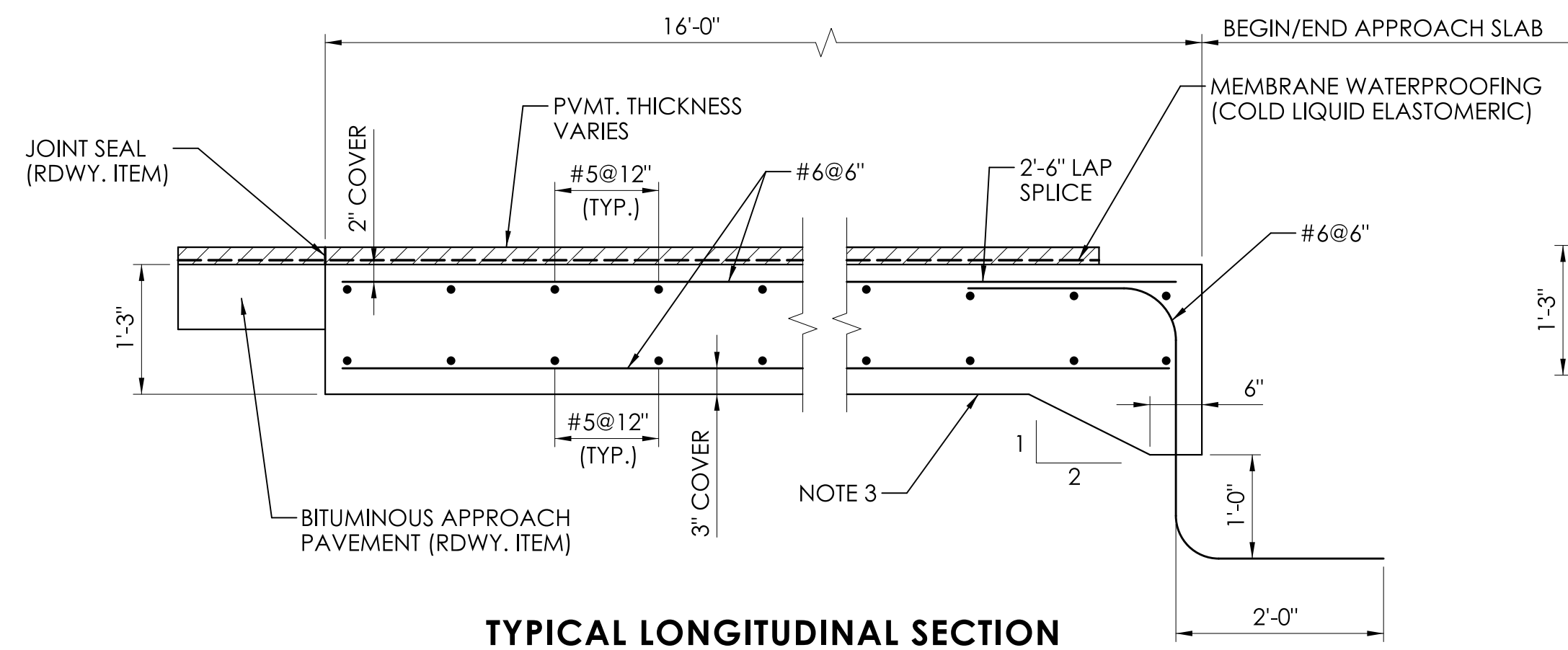


SECTION B
TYPICAL REINFORCEMENT SECTION AT ENDS
SCALE: 1 1/2" = 1'-0"

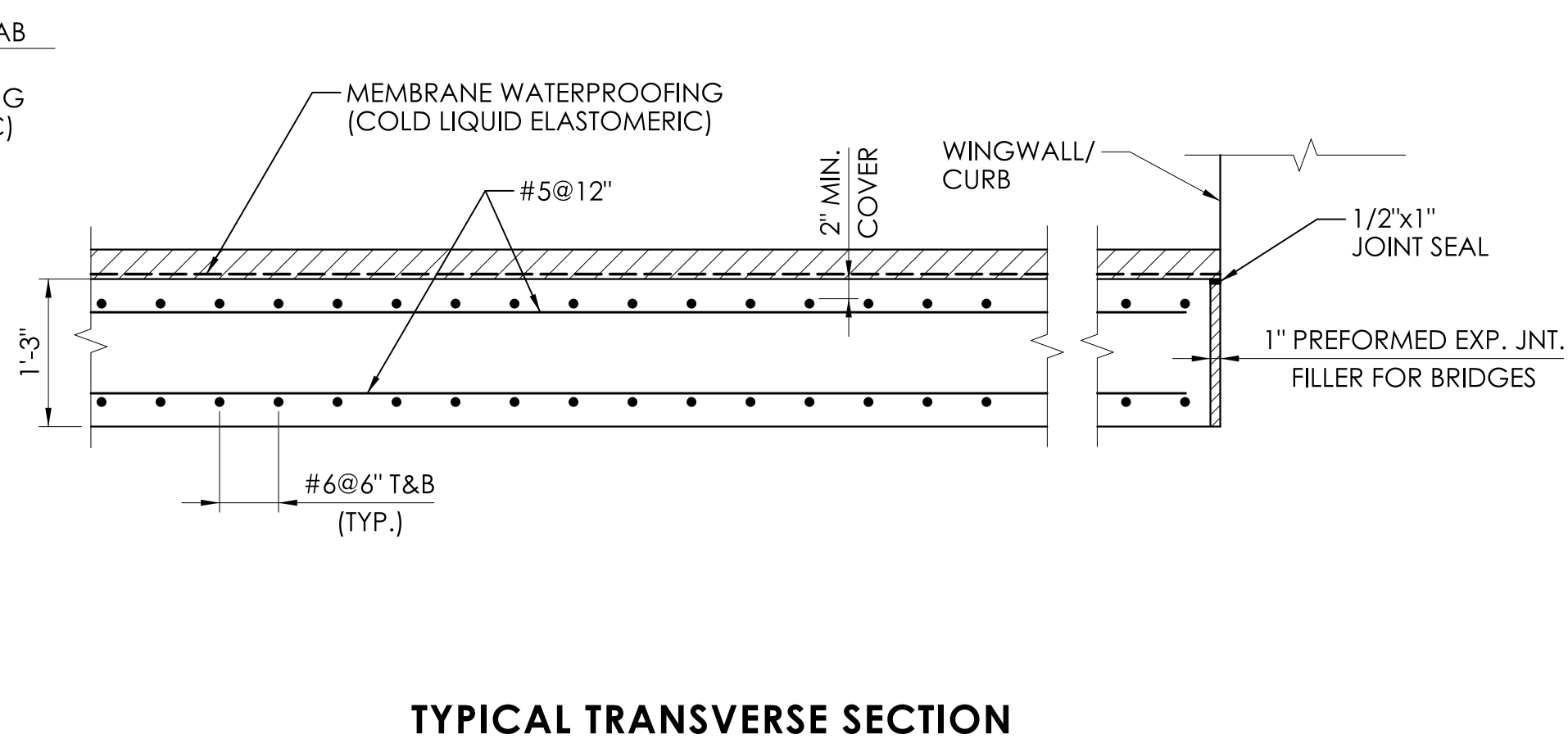
LEGEND:

- + DENOTES STRAIGHT BONDED STRAND
- ⊕ DENOTES STRAIGHT DEBONDED STRAND
DEBONDED STRANDS ARE DEBONDED FOR 3'-0"
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- ⊞ DENOTES STRAIGHT STRANDS EXTENDED TO THE
CLOSURE POUR AND TURNED UP/DOWN

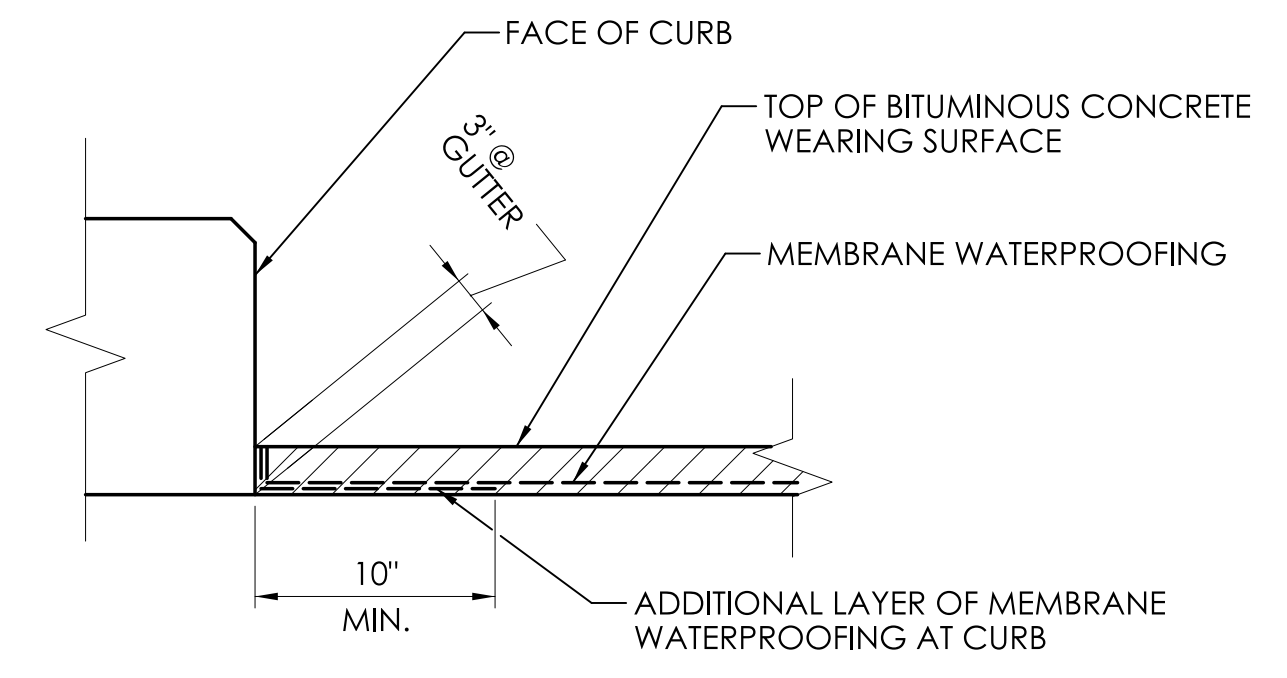
REV.	DATE	REVISION DESCRIPTION



TYPICAL LONGITUDINAL SECTION



TYPICAL TRANSVERSE SECTION



TREATMENT OF MEMBRANE WATERPROOFING AT GUTTER

ASPHALTIC PLUG EXPANSION JOINT SYSTEM NOTES (CONT.):

6. INSTALLATION OF MEMBRANE WITHIN THE LIMITS SHOWN TO BE PAID UNDER THE ITEM, "MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMER)".
7. THE FURNISHING AND PLACING OF HMA TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "HMA S0.375".
8. SAW-CUTTING AND REMOVAL OF PAVEMENT FOR JOINT INSTALLATION TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".
9. INSTALLATION OF FOAM SUPPORTED SILICONE GLAND TO BE PAID UNDER THE ITEM "PREFORMED JOINT SEAL".
10. ASPHALTIC PLUG EXPANSION JOINT SYSTEMS MAY BE INSTALLED ONLY WITHIN THE TEMPERATURE RANGE SPECIFIED IN THE SPECIAL PROVISION "ASPHALTIC PLUG EXPANSION JOINT SYSTEM". REFERENCE THE RANGE OF THERMAL MOVEMENT FOR THE SELECTED JOINT PRODUCT IN THE TABLE FOR "INSTALLATION RESTRICTIONS" IN THE SPECIAL PROVISION.

BITUMINOUS CONCRETE PLACEMENT AT ASPHALTIC PLUG JOINTS (APJ):

1. THE REQUIREMENTS OF SPECIAL PROVISION SECTION 4.06 SHALL BE MET EXCEPT IN LIEU OF DENSITY TESTING, THE METHODS DESCRIBED BELOW SHALL BE FOLLOWED TO ASSURE PROPER COMPACTION.
2. TOP LIFT MUST BE UNIFORM THICKNESS; INTERMEDIATE LIFTS CAN BE PLACED AT 1 1/4" TO 2 1/2" COMPACTED.
3. REQUIREMENTS FOR PROPER COMPACTION:
 - a. MINIMUM 265° F DELIVERY TEMPERATURE OF MATERIAL. PLACE AND SPREAD MATERIAL BEFORE IT COOLS TO 260° F. MATERIAL BELOW TEMPERATURE REQUIREMENT WILL BE REJECTED.
 - b. COMPACT NON-SURFACE LIFTS WITH VIBRATORY PLATE COMPACTOR MEETING THE FOLLOWING REQUIREMENTS:
 - i. DESIGNED TO COMPACT ASPHALT
 - ii. EQUIPPED WITH A WATER TANK
 - iii. CENTRIFUGAL FORCE 3200 LBS TO 6000 LBS
 - iv. WEIGHS MINIMUM 160 LBS (WITHOUT WATER)
 - v. MINIMUM 4400 VIBRATIONS PER MINUTE
 - c. COMPACT TOP LIFT WITH 3 1/2 TO 4 1/2 TON DOUBLE DRUM ROLLER, DESIGNED TO COMPACT BITUMINOUS CONCRETE.
 - d. PROVIDE NUMBER OF PASSES BASED ON LIFT THICKNESS AS FOLLOWS:

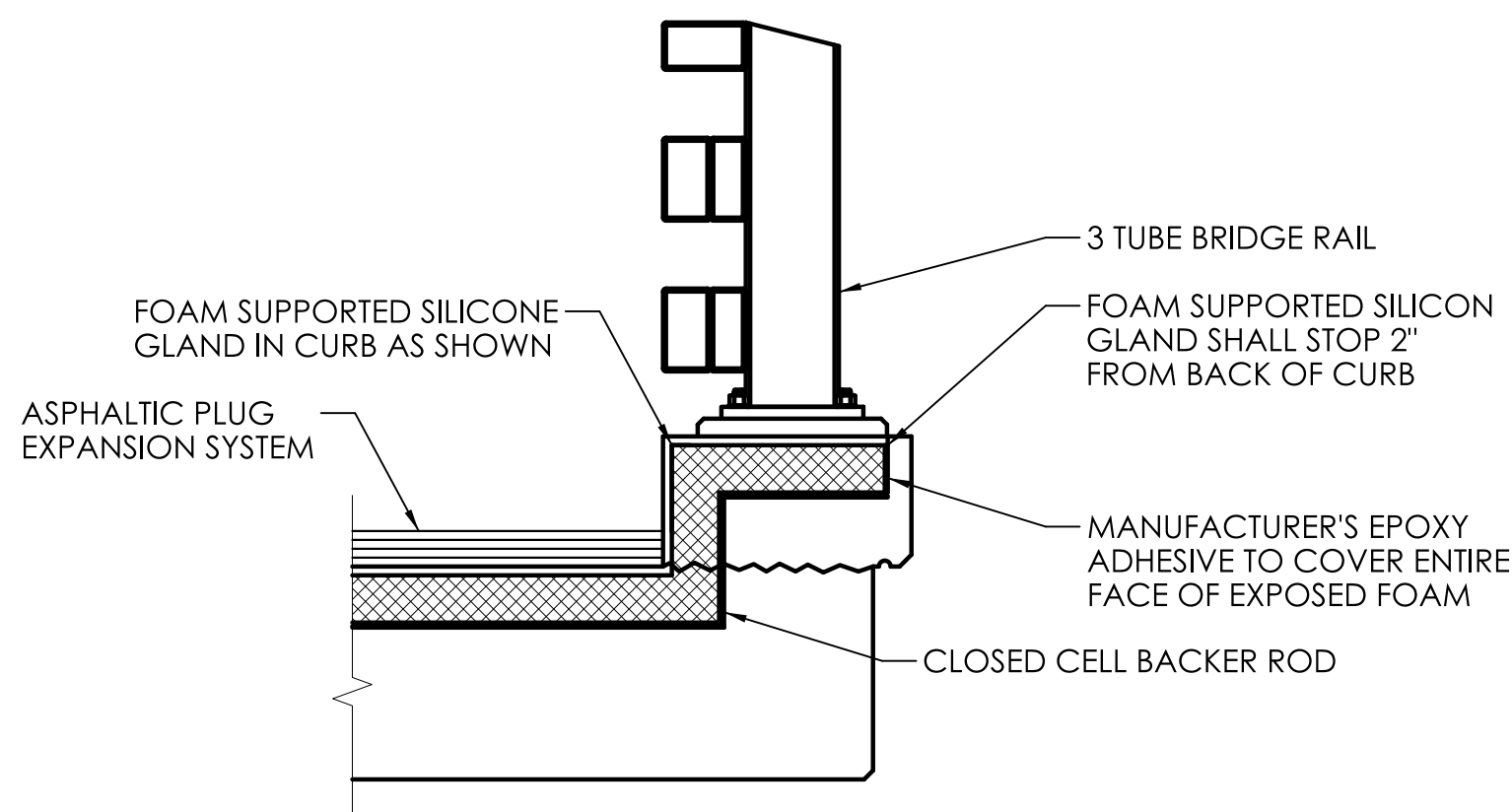
LIFT THICKNESS (INCHES)	NUMBER OF PASSES
1 1/4 TO 1 1/2	8
1 1/2 TO 2	10
2 TO 2 1/2	12
 - e. ADDITIONAL COMPACTING EQUIPMENT MAY BE REQUIRED TO COMPLETE LIFT COMPACTION BEFORE MATERIAL COOLS TO 180° F.
 - f. AT CORNERS OR OTHER AREAS INACCESSIBLE TO PLATE TAMPER, HAND TAMP 20 TIMES MINIMUM BEFORE MATERIAL COOLS TO 180° F.
4. ALTERNATE EQUIPMENT MAY BE REQUESTED AS A SUPPLEMENT TO CONTRACTOR'S QC PLAN. THE EQUIPMENT AND PROCEDURES MUST BE APPROVED BY THE ENGINEER PRIOR TO USE.
5. IF THESE METHODS ARE NOT PERFORMED TO THE SATISFACTION OF THE ENGINEER, DENSITY VERIFICATION MAY BE REQUIRED WHEREIN THE CONTRACTOR SHALL PROVIDE DENSITY TESTING WITH A QC NUCLEAR DENSITY GAUGE OR COLLECT CORE SAMPLES AS SPECIFIED IN SECTION 4.06.

APPROACH SLAB NOTES

1. ALL REINFORCING STEEL IN APPROACH SLABS TO BE INCLUDED IN THE ITEM FOR "DEFORMED STEEL BARS-GALVANIZED"
2. SEE DRAWING S-21 FOR PAVEMENT DETAILS AT APPROACH SLAB.

APPROACH SLAB DETAILS

SCALE: 3/4" = 1'-0"



ASPHALTIC PLUG EXPANSION JOINT SYSTEM AT CURB

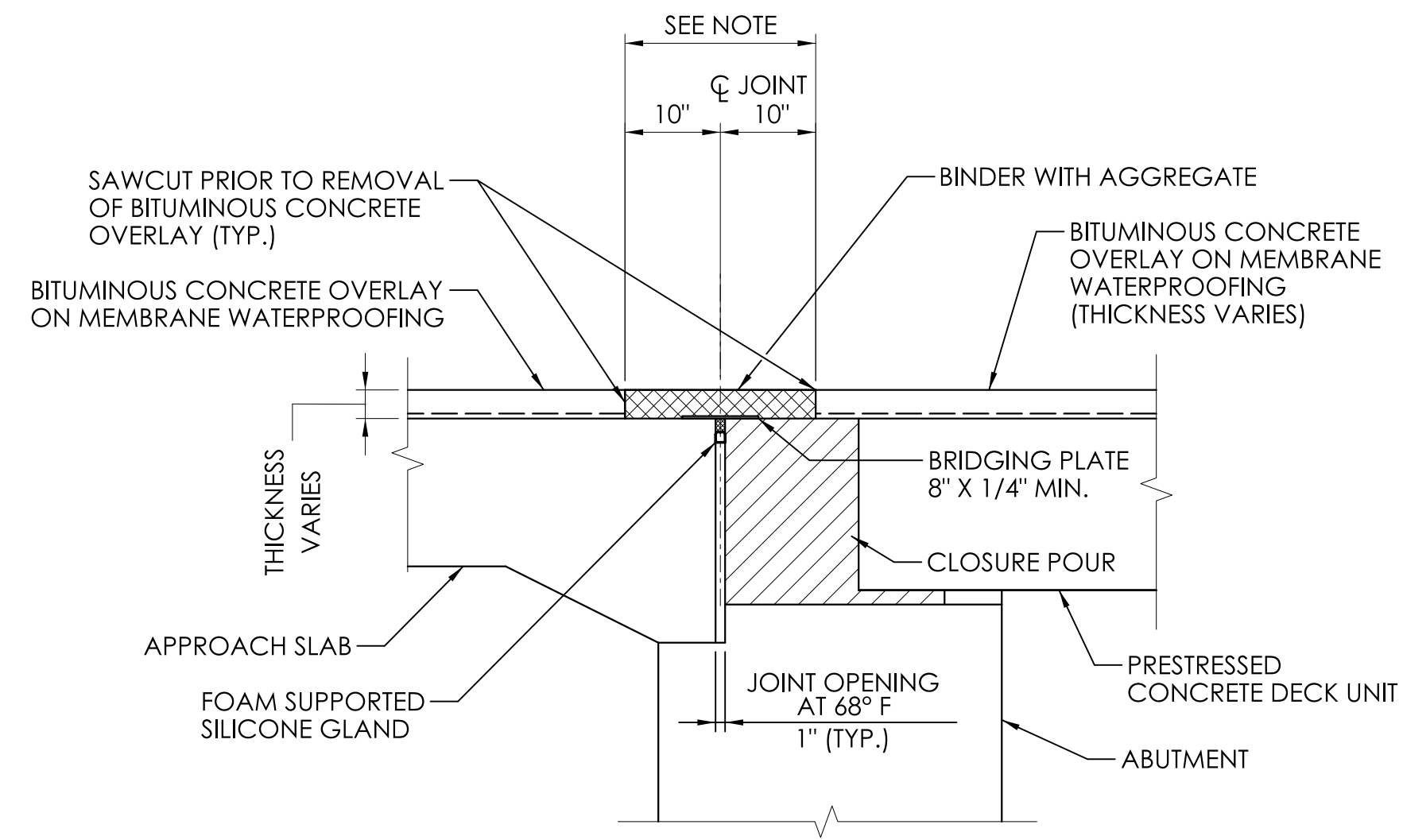
SCALE: 3/4" = 1'-0"

NOTES:

1. THE CLOSED CELL BACKER ROD SHALL BE PLACED A MINIMUM OF 2" FROM THE OUTSIDE FACE OF CURB. INCLUDE IN ITEM FOR ASPHALTIC PLUG EXPANSION JOINT SYSTEM.
2. THE NON-SAGGING SILICONE SEALANT SHALL BE PLACED ON THE BACKER ROD 1/2" THICK. AT THE GUTTER, THE SILICONE SEALANT SHALL BE PLACED FLUSH WITH THE OUTSIDE FACE OF THE CONCRETE.
3. PRIOR TO INSTALLING THE SILICONE SEALANT, CLEAN JOINT SIDES BY SANDBLASTING. DUST SHALL BE REMOVED BY THE METHOD APPROVED BY THE ENGINEER. THE WORK SHALL BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM". (SEE SPECIAL PROVISIONS)

SUGGESTED SEQUENCE OF WORK

- STEP 1: INSTALL TEMPORARY BACKER ROD FLUSH WITH THE CLOSURE POUR AND APPROACH SLAB OR BACKWALL.
- STEP 2: INSTALL MEMBRANE WATERPROOFING TO THE TOP OF CLOSURE POUR AND APPROACH SLAB WITHIN THE LIMITS SHOWN.
- STEP 3: PLACE BITUMINOUS CONCRETE OVERLAY AS INDICATED ON THE PLANS.
- STEP 4: SAW-CUT PAVEMENT FULL DEPTH AT 10" EACH SIDE OF CENTERLINE OF JOINT, AND REMOVE ALL PAVEMENT MATERIAL BETWEEN SAW-CUTS. TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".
- STEP 5: INSTALL PROPOSED ASPHALTIC PLUG EXPANSION JOINT SYSTEM WITH FOAM SUPPORTED SILICONE GLAND AND BRIDGING PLATE. LOCATING PINS SHALL NOT BE USED TO SECURE THE BRIDGING PLATE.



ASPHALTIC PLUG EXPANSION JOINT SYSTEM

SCALE: 3/4" = 1'-0"

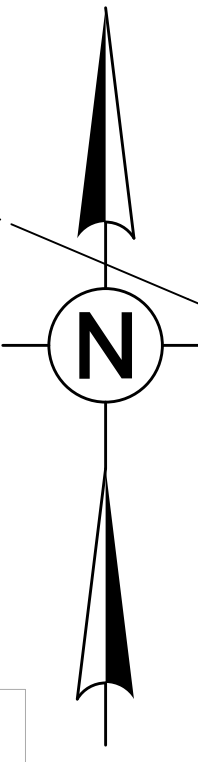
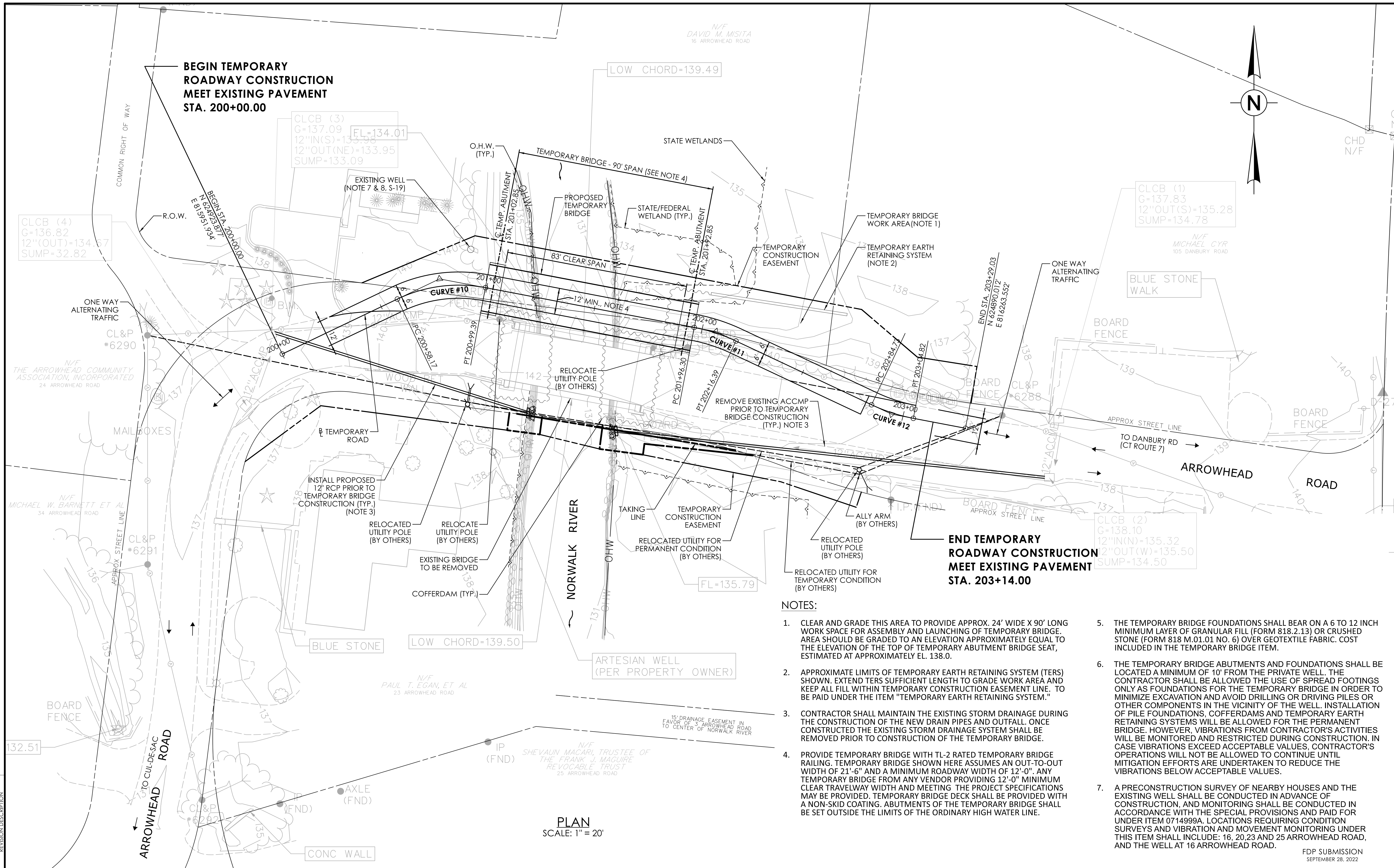
NOTE: REMOVE NEW BITUMINOUS CONCRETE OVERLAY AND MEMBRANE WATERPROOFING. REPLACE WITH ASPHALTIC PLUG EXPANSION JOINT SYSTEM. TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM." (SEE SPECIAL PROVISION).

EXPECTED THERMAL MOVEMENT BETWEEN 1/8" AND 1/4".

ASPHALTIC PLUG EXPANSION JOINT SYSTEM NOTES:

1. A BRIDGING PLATE SHALL BE USED TO SPAN THE GAP BETWEEN JOINT BETWEEN A DECK END CLOSURE POUR AND A CONCRETE APPROACH SLAB.
2. DISCONTINUE THE INSTALLATION OF THE BRIDGING PLATE WHERE THE APPROACH SLAB IS DISCONTINUED (TYPICALLY IN THE ROADWAY SHOULDERS). SEE "ASPHALTIC PLUG EXPANSION JOINT SYSTEM" SPECIAL PROVISION.
3. NEW STEEL BRIDGING PLATES SHALL BE A MINIMUM OF 1/2" THICK BY 8" WIDE. FOR JOINT OPENINGS WHICH EXCEED 3", A 3/4" THICK BY 12" WIDE PLATE WILL BE REQUIRED.
4. NO BRIDGING PLATE SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - A. JOINT BETWEEN A DECK END CLOSURE POUR AND A CONCRETE APPROACH PAVEMENT
 - B. WHERE A BRIDGE DECK END CLOSURE POUR MEETS A BITUMINOUS APPROACH PAVEMENT
5. TEMPORARY CLOSED CELL BACKER ROD DIAMETER SHALL BE DETERMINED AFTER MEASURING THE JOINT OPENING, THE ROD SHALL BE 25% LARGER THAN THE JOINT OPENING.

REV.	DATE	REVISION DESCRIPTION



BEGIN TEMPORARY ROADWAY CONSTRUCTION MEET EXISTING PAVEMENT STA. 200+00.00

END TEMPORARY ROADWAY CONSTRUCTION MEET EXISTING PAVEMENT STA. 203+14.00

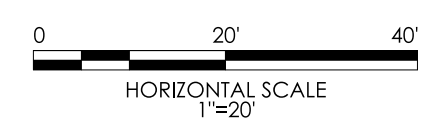
NOTES:

- CLEAR AND GRADE THIS AREA TO PROVIDE APPROX. 24' WIDE X 90' LONG WORK SPACE FOR ASSEMBLY AND LAUNCHING OF TEMPORARY BRIDGE. AREA SHOULD BE GRADED TO AN ELEVATION APPROXIMATELY EQUAL TO THE ELEVATION OF THE TOP OF TEMPORARY ABUTMENT BRIDGE SEAT, ESTIMATED AT APPROXIMATELY EL. 138.0.
- APPROXIMATE LIMITS OF TEMPORARY EARTH RETAINING SYSTEM (TERS) SHOWN. EXTEND TERS SUFFICIENT LENGTH TO GRADE WORK AREA AND KEEP ALL FILL WITHIN TEMPORARY CONSTRUCTION EASEMENT LINE. TO BE PAID UNDER THE ITEM "TEMPORARY EARTH RETAINING SYSTEM."
- CONTRACTOR SHALL MAINTAIN THE EXISTING STORM DRAINAGE DURING THE CONSTRUCTION OF THE NEW DRAIN PIPES AND OUTFALL. ONCE CONSTRUCTED THE EXISTING STORM DRAINAGE SYSTEM SHALL BE REMOVED PRIOR TO CONSTRUCTION OF THE TEMPORARY BRIDGE.
- PROVIDE TEMPORARY BRIDGE WITH TL-2 RATED TEMPORARY BRIDGE RAILING. TEMPORARY BRIDGE SHOWN HERE ASSUMES AN OUT-TO-OUT WIDTH OF 21'-6" AND A MINIMUM ROADWAY WIDTH OF 12'-0". ANY TEMPORARY BRIDGE FROM ANY VENDOR PROVIDING 12'-0" MINIMUM CLEAR TRAVELWAY WIDTH AND MEETING THE PROJECT SPECIFICATIONS MAY BE PROVIDED. TEMPORARY BRIDGE DECK SHALL BE PROVIDED WITH A NON-SKID COATING. ABUTMENTS OF THE TEMPORARY BRIDGE SHALL BE SET OUTSIDE THE LIMITS OF THE ORDINARY HIGH WATER LINE.
- THE TEMPORARY BRIDGE FOUNDATIONS SHALL BEAR ON A 6 TO 12 INCH MINIMUM LAYER OF GRANULAR FILL (FORM 818.2.13) OR CRUSHED STONE (FORM 818 M.01.01 NO. 6) OVER GEOTEXTILE FABRIC. COST INCLUDED IN THE TEMPORARY BRIDGE ITEM.
- THE TEMPORARY BRIDGE ABUTMENTS AND FOUNDATIONS SHALL BE LOCATED A MINIMUM OF 10' FROM THE PRIVATE WELL. THE CONTRACTOR SHALL BE ALLOWED THE USE OF SPREAD FOOTINGS ONLY AS FOUNDATIONS FOR THE TEMPORARY BRIDGE IN ORDER TO MINIMIZE EXCAVATION AND AVOID DRILLING OR DRIVING PILES OR OTHER COMPONENTS IN THE VICINITY OF THE WELL. INSTALLATION OF PILE FOUNDATIONS, COFFERDAMS AND TEMPORARY EARTH RETAINING SYSTEMS WILL BE ALLOWED FOR THE PERMANENT BRIDGE. HOWEVER, VIBRATIONS FROM CONTRACTOR'S ACTIVITIES WILL BE MONITORED AND RESTRICTED DURING CONSTRUCTION. IN CASE VIBRATIONS EXCEED ACCEPTABLE VALUES, CONTRACTOR'S OPERATIONS WILL NOT BE ALLOWED TO CONTINUE UNTIL MITIGATION EFFORTS ARE UNDERTAKEN TO REDUCE THE VIBRATIONS BELOW ACCEPTABLE VALUES.
- A PRECONSTRUCTION SURVEY OF NEARBY HOUSES AND THE EXISTING WELL SHALL BE CONDUCTED IN ADVANCE OF CONSTRUCTION, AND MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND PAID FOR UNDER ITEM 0714999A. LOCATIONS REQUIRING CONDITION SURVEYS AND VIBRATION AND MOVEMENT MONITORING UNDER THIS ITEM SHALL INCLUDE: 16, 20, 23 AND 25 ARROWHEAD ROAD, AND THE WELL AT 16 ARROWHEAD ROAD.

PLAN SCALE: 1" = 20'

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.



SIGNATURE/BLOCK: Mott MacDonald
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067

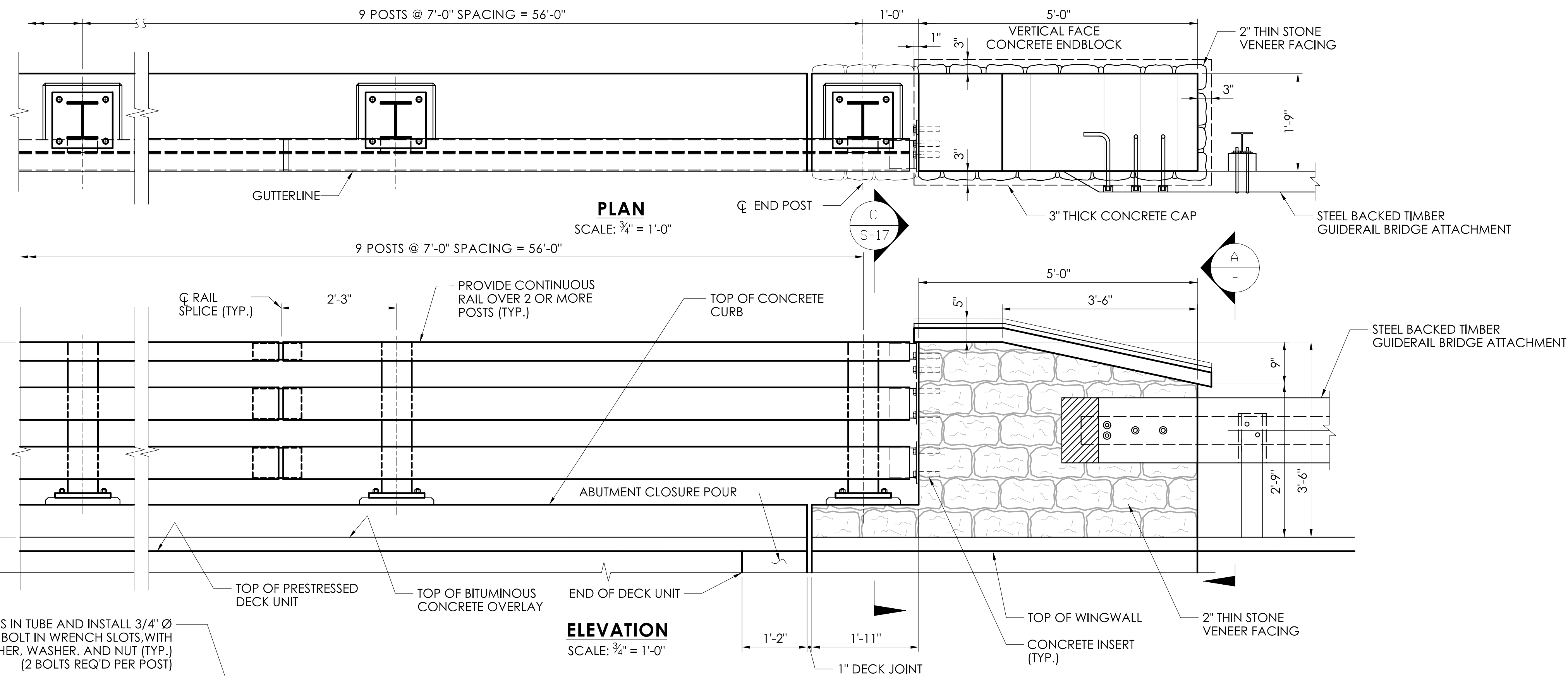
M M MOTT MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067



PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: TEMPORARY BRIDGE LAYOUT

FDP SUBMISSION
SEPTEMBER 28, 2022

DRAWING NO. S-15
SHEET NO. 05.15



BRIDGE RAIL NOTES

THE 3-TUBE CURB MOUNTED BRIDGE RAIL HAS BEEN EVALUATED AT TEST LEVEL 4 (TL-4) AND COMPLIES WITH MASH 2016. EXCEPT FOR MODIFICATIONS MADE TO RAIL BASE ANCHORAGE WHICH HAS BEEN DESIGNED TO MEET TL-3 CRITERIA.

CONCRETE FOR THE CURB AND ENDBLOCK SHALL BE CLASS PCC04462. THE COMPRESSIVE STRENGTH OF THE CONCRETE, BASED ON TEST CYLINDERS, SHALL BE NO LESS THAN 4,000 PSI PRIOR TO INSTALLING THE EPOXY GROUT BELOW THE BASEPLATES. PRIOR TO ALLOWING THE RAIL, CURB AND ENDBLOCK TO BE PLACED IN SERVICE FOR THE PROTECTION OF VEHICULAR TRAFFIC, THE COMPRESSIVE STRENGTH OF THE GROUT, BASED ON STRENGTH GAIN OVER TIME LISTED IN THE GROUT MANUFACTURER'S DATA SHEET, SHALL BE NO LESS THAN 5,000 PSI.

THE REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60 AND BE HOT-DIP GALVANIZED.

THE 1 IN. DIAMETER PIPE SHALL CONFORM TO ASTM A53, GRADE B OR ASTM A501 AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123.

HOLLOW STRUCTURAL SHAPES SHALL CONFORM TO ASTM A500 GRADE C OR ASTM A501, GRADE B.

ALL OTHER STEEL SHALL CONFORM TO ASTM A572, GRADE 50 UNLESS NOTED OTHERWISE.

THE SILICON CONTENT OF THE STEEL USED FOR THE EXPOSED MEMBERS AND PLATE COMPONENTS SHALL FALL WITHIN THE RANGE OF 0 TO 0.04% OR 0.15% TO 0.25%.

ALL STEEL SHAPES, PLATES AND HOLLOW STRUCTURAL SECTIONS SHALL BE SHOP METALLIZED IN ACCORDANCE WITH THE SPECIAL PROVISION "METALLIZING STRUCTURAL STEEL (SITE NO. 1)". THE COLOR OF THE TOP COAT MATERIAL ON THE STEEL SHALL CONFORM TO FEDERAL STANDARD NO. 17038.

THE ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 105. THE NUTS SHALL CONFORM TO ASTM A563, GRADE DH. THE WASHERS SHALL CONFORM TO ASTM F436. THE BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM F2329.

ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125 GRADE A325, TYPE 1. NUTS SHALL CONFORM TO ASTM A563, GRADE DH. CIRCULAR, FLAT, HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F436. THE BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM F2329 OR ASTM B695, CLASS 55.

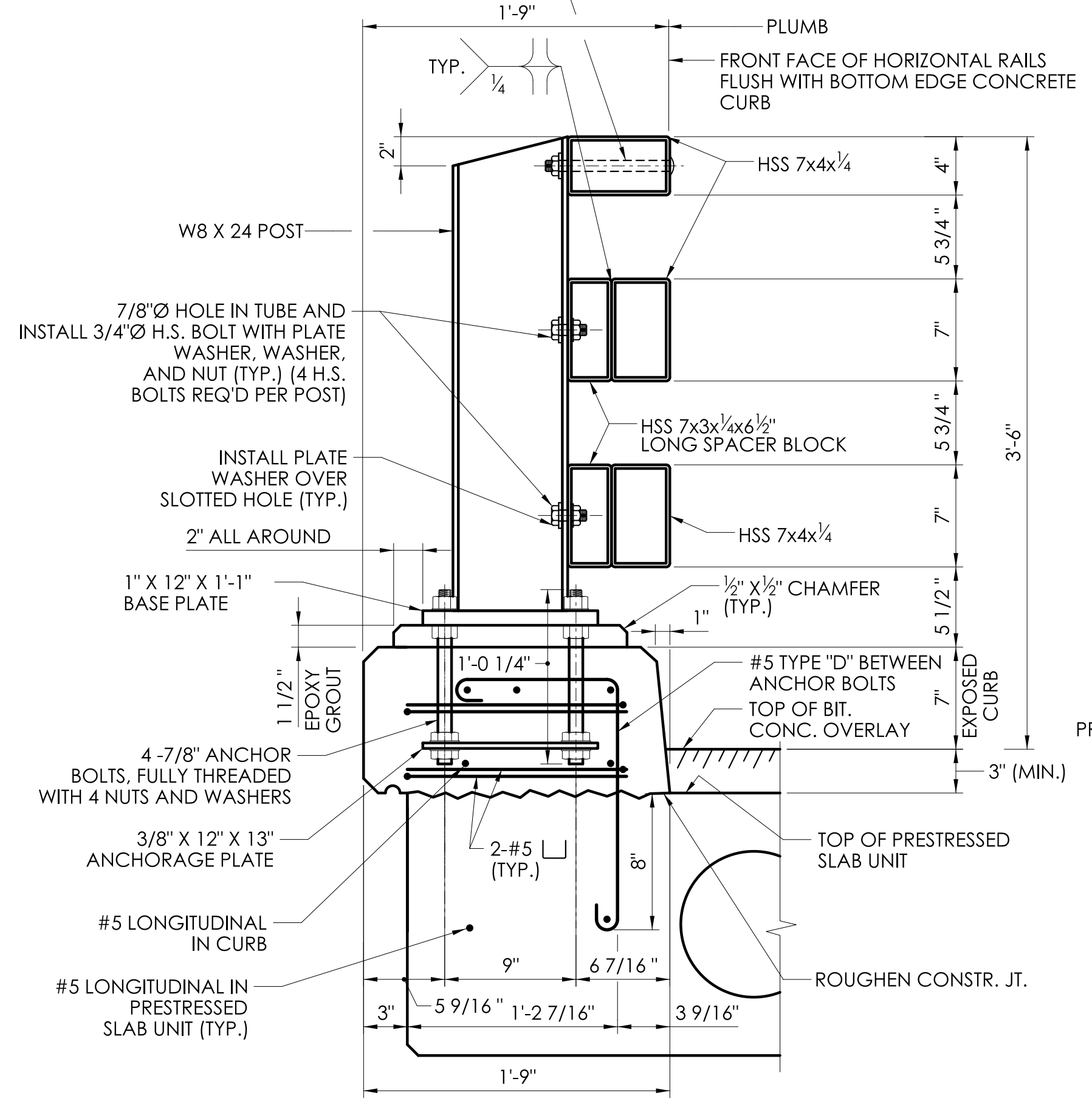
DOME HEAD BOLTS WITH WRENCH SLOTS USED FOR THE TOP RAIL SHALL CONFORM TO ASTM F3125 GRADE A325, TYPE 1 OR ASTM A449, GRADE 1. SUBSTITUTION OF DOME HEAD BOLTS WITH BOLTS MEETING DIFFERENT MATERIAL REQUIREMENTS IS NOT PERMITTED. NUTS SHALL CONFORM TO ASTM A563, GRADE DH. CIRCULAR, FLAT, HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F436. THE BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM F2329 OR ASTM B695, CLASS 55.

BOLTS, NUTS AND WASHERS SHALL BE COATED AFTER INSTALLATION TO MATCH THE FINISH COLOR OF THE SURROUNDING ELEMENTS. PROPER SURFACE PREPARATION OF THE FASTENERS IS REQUIRED FOR ADHESION OF THE PAINT IN ACCORDANCE WITH THE PAINT MANUFACTURER'S WRITTEN INSTRUCTIONS.

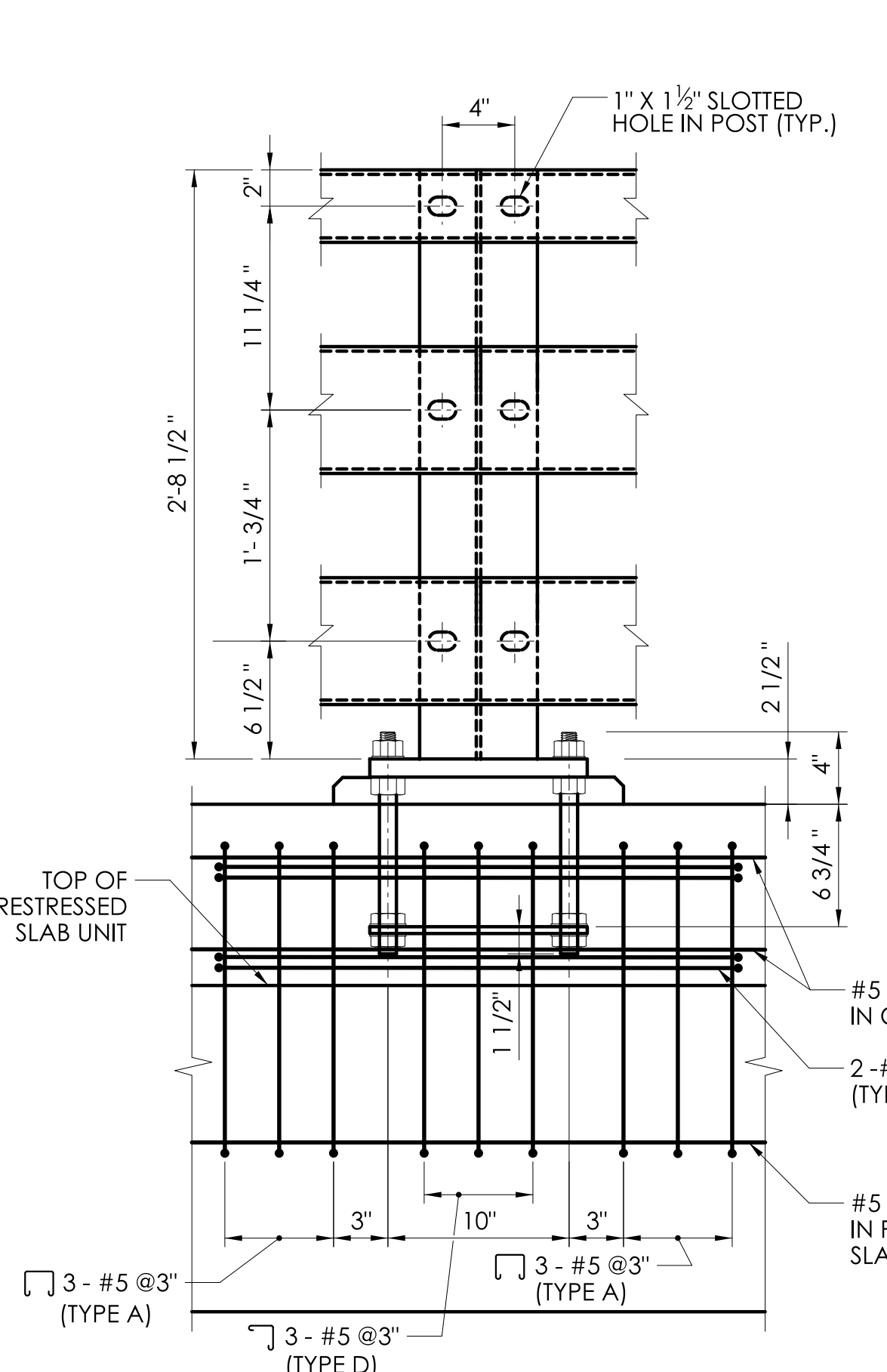
RAIL ELEMENTS SHALL BE FABRICATED TO THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE STRUCTURE. POSTS SHALL BE INSTALLED NORMAL TO GRADE IN THE LONGITUDINAL DIRECTION AND VERTICAL IN THE TRANSVERSE DIRECTION.

ALL BRIDGE RAIL MATERIALS, INCLUDING ANCHOR PLATES, ANCHOR BOLTS, CONCRETE INSERTS, HARDWARE AND EPOXY GROUT, SHALL BE PAID FOR UNDER THE ITEM "3-TUBE CURB MOUNTED BRIDGE RAIL".

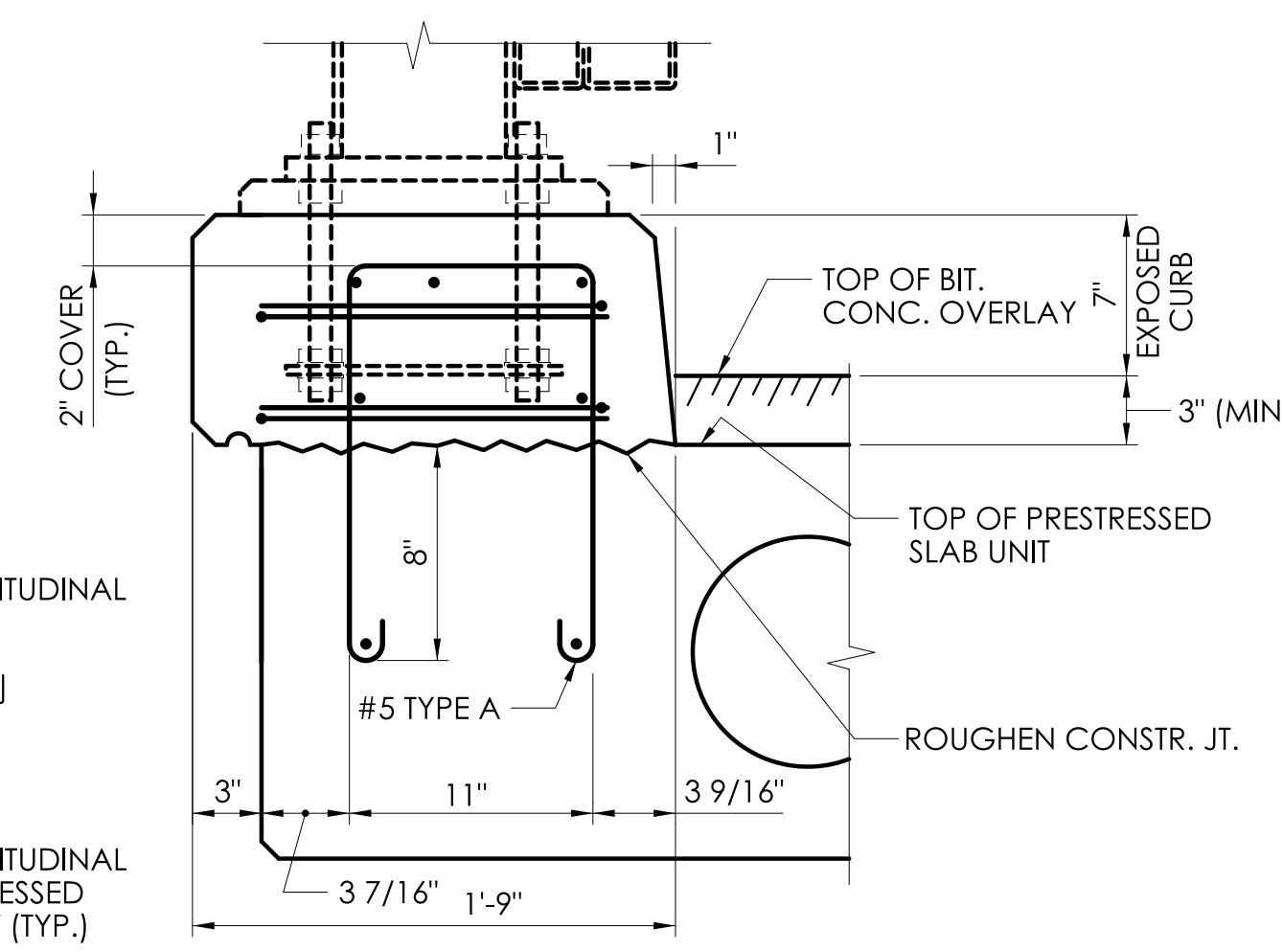
7/8" Ø HOLES IN TUBE AND INSTALL 3/4" Ø DOME HEAD BOLT IN WRENCH SLOTS, WITH PLATE WASHER, WASHER, AND NUT (TYP.) (2 BOLTS REQ'D PER POST)



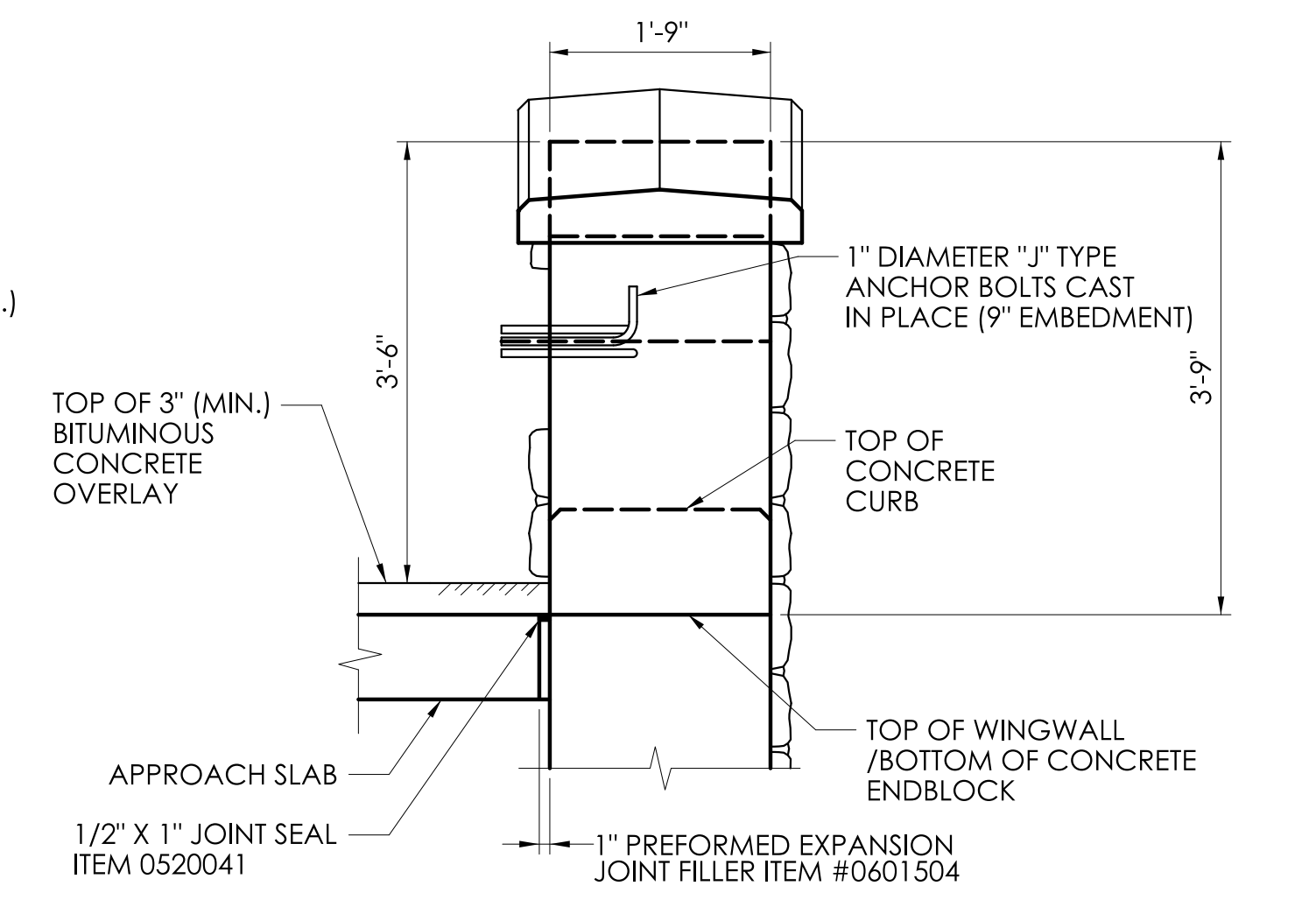
CURB AND POST DETAILS



**ELEVATION AT POST
TYPICAL SECTION AT POST**
SCALE: 1 1/2" = 1'-0"

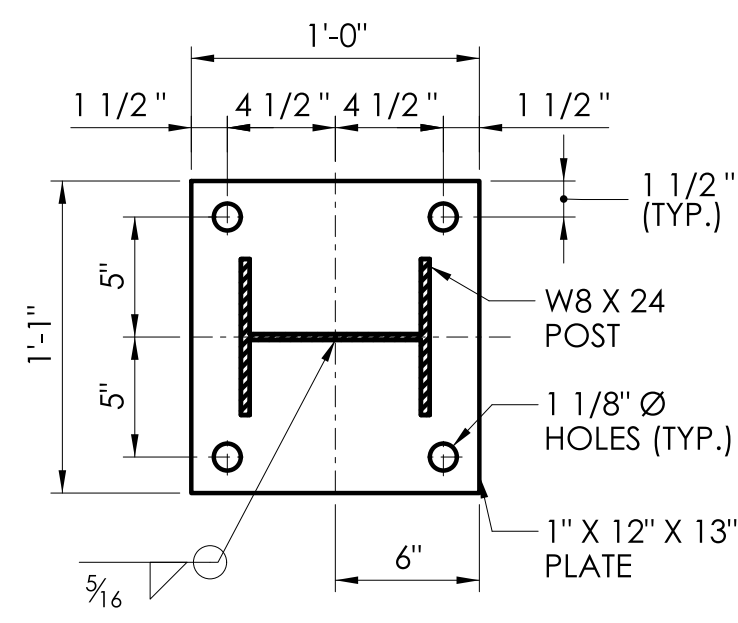


**TYPICAL SECTION
IMMEDIATELY BEFORE AND AFTER POST**
FOR INFORMATION NOT SHOWN
SEE TYPICAL SECTION AT POST

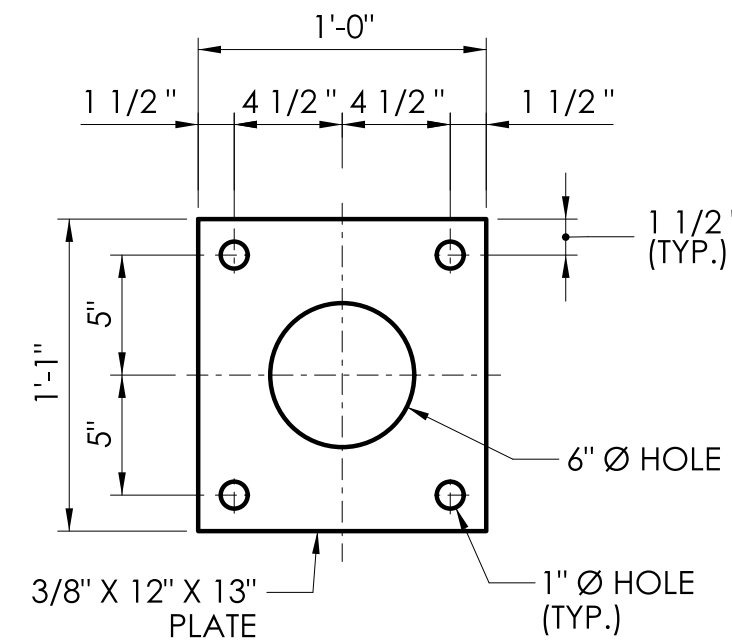


**SECTION
SCALE: 3/4" = 1'-0"**

REV.	DATE	REVISION DESCRIPTION



BASE PLATE DETAIL
SCALE: 1 1/2" = 1'-0"



ANCHOR PLATE DETAIL
SCALE: 1 1/2" = 1'-0"

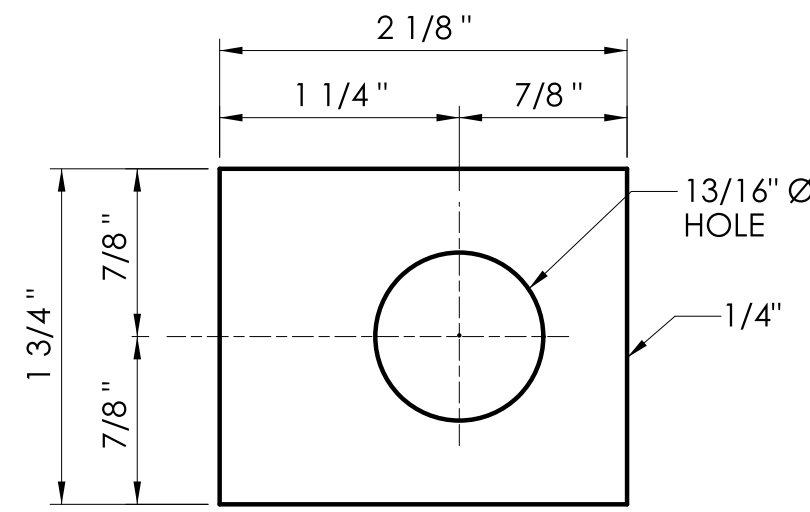
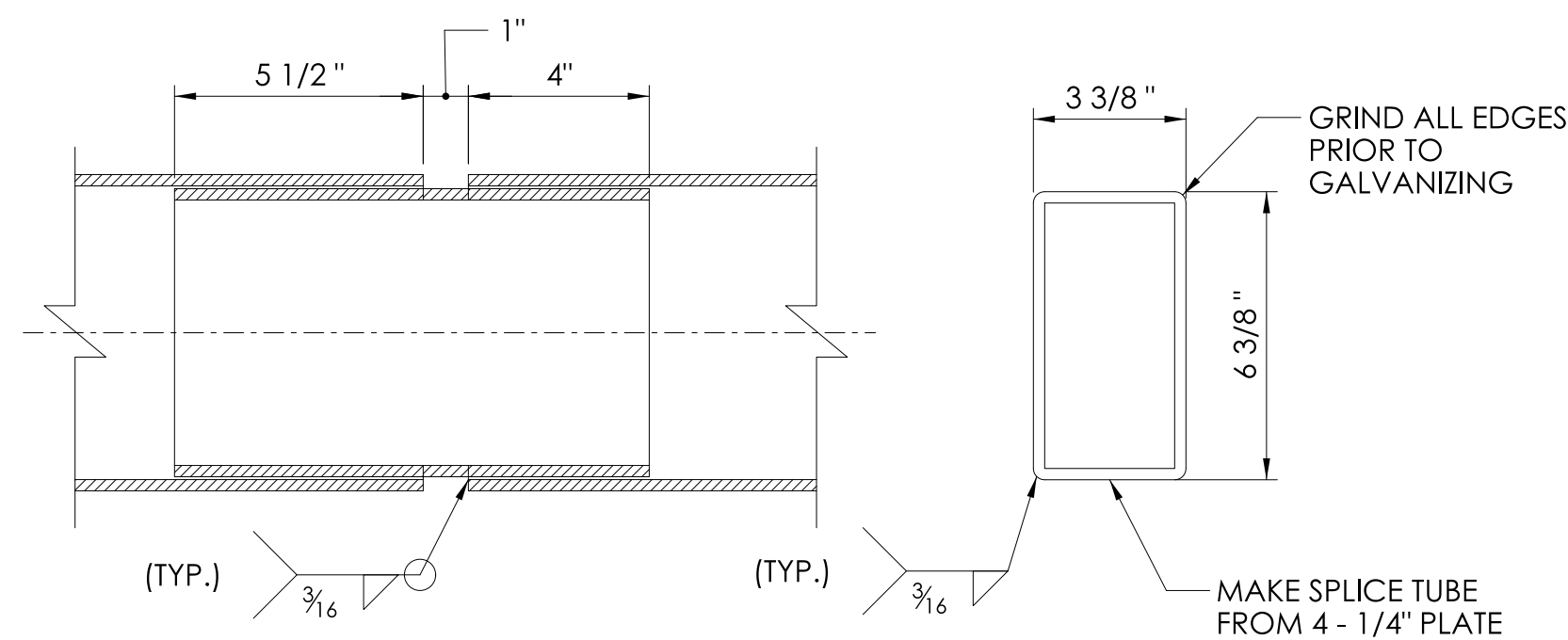
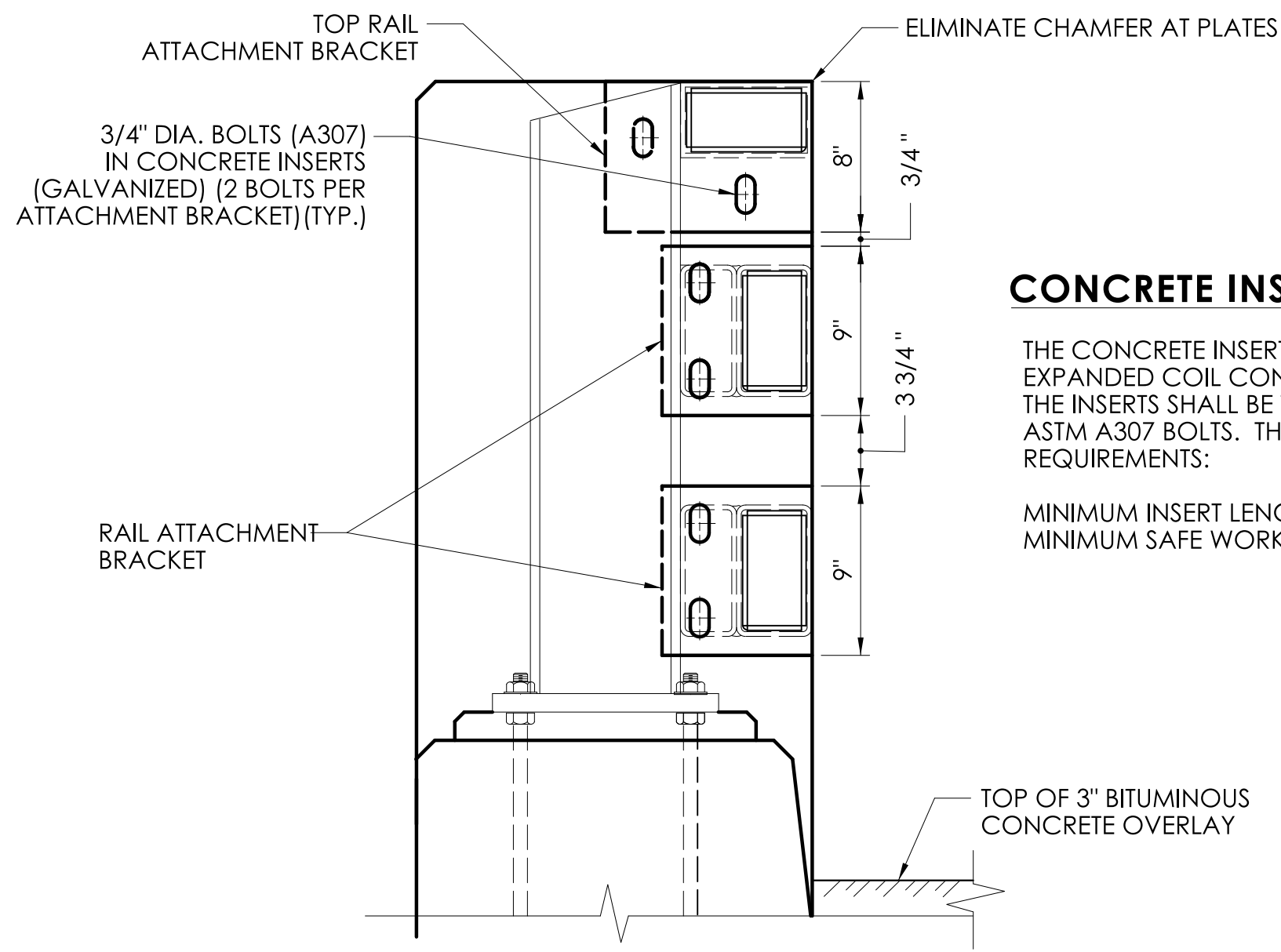


PLATE WASHER "C"
SCALE: FULL SCALE



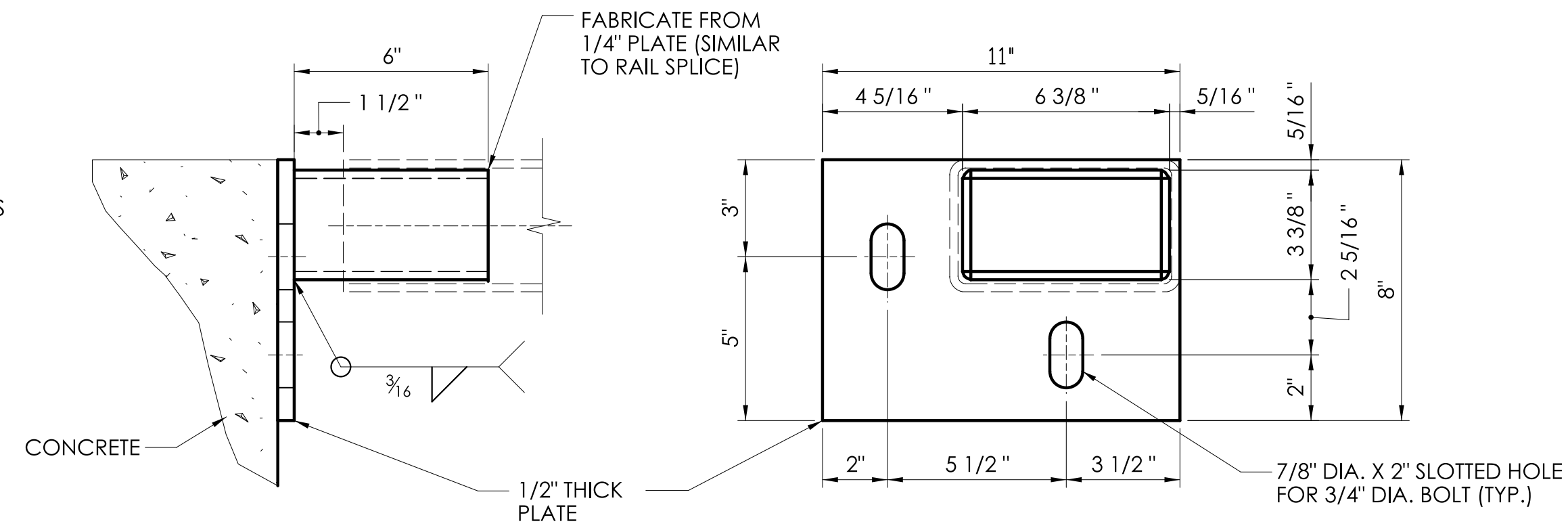
RAIL SPLICE DETAILS
SCALE: 3" = 1'-0"



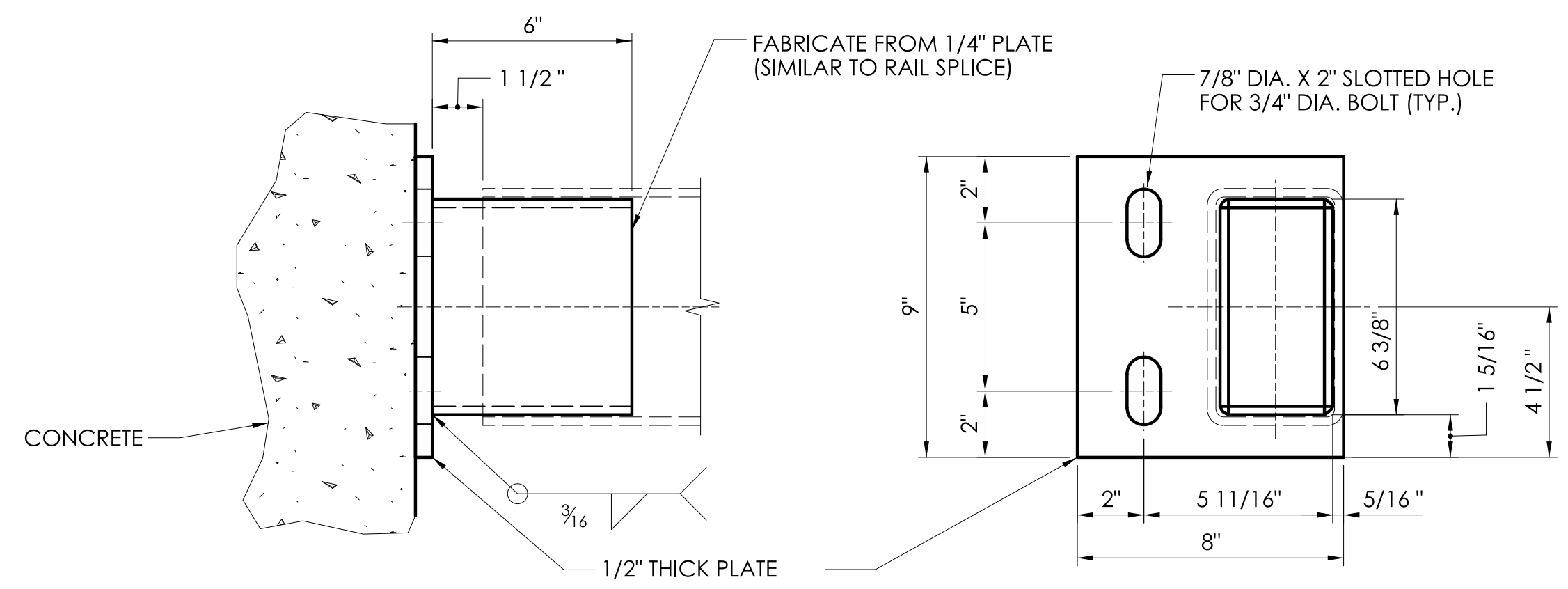
CONCRETE INSERT NOTES

THE CONCRETE INSERTS SHALL BE HOT-DIP GALVANIZED, EXPANDED COIL CONCRETE INSERTS WITH A CLOSED-BACK. THE INSERTS SHALL BE THREADED TO RECEIVE 3/4" DIA. ASTM A307 BOLTS. THE INSERTS SHALL MEET THE FOLLOWING REQUIREMENTS:
MINIMUM INSERT LENGTH = 4 1/2"
MINIMUM SAFE WORKING LOAD IN TENSION = 4000 LBS.

SECTION C
SCALE: 1 1/2" = 1'-0"



TOP RAIL ATTACHMENT BRACKET
SCALE: 3" = 1'-0"



RAIL ATTACHMENT BRACKET
SCALE: 3" = 1'-0"

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.

SCALE AS NOTED

SIGNATURE/BLOCK:

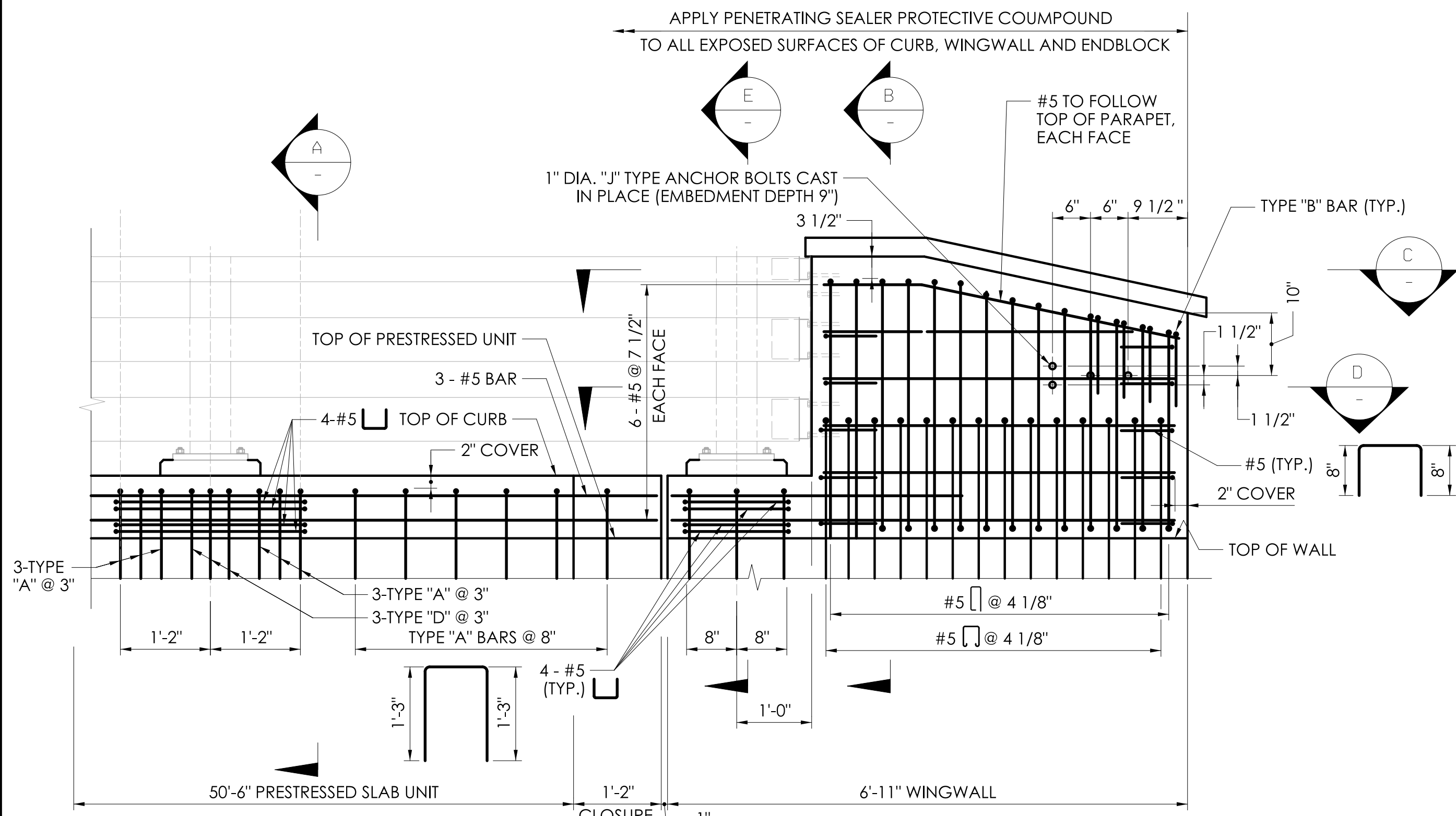
M M
MOTT MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

TOWN OF WILTON

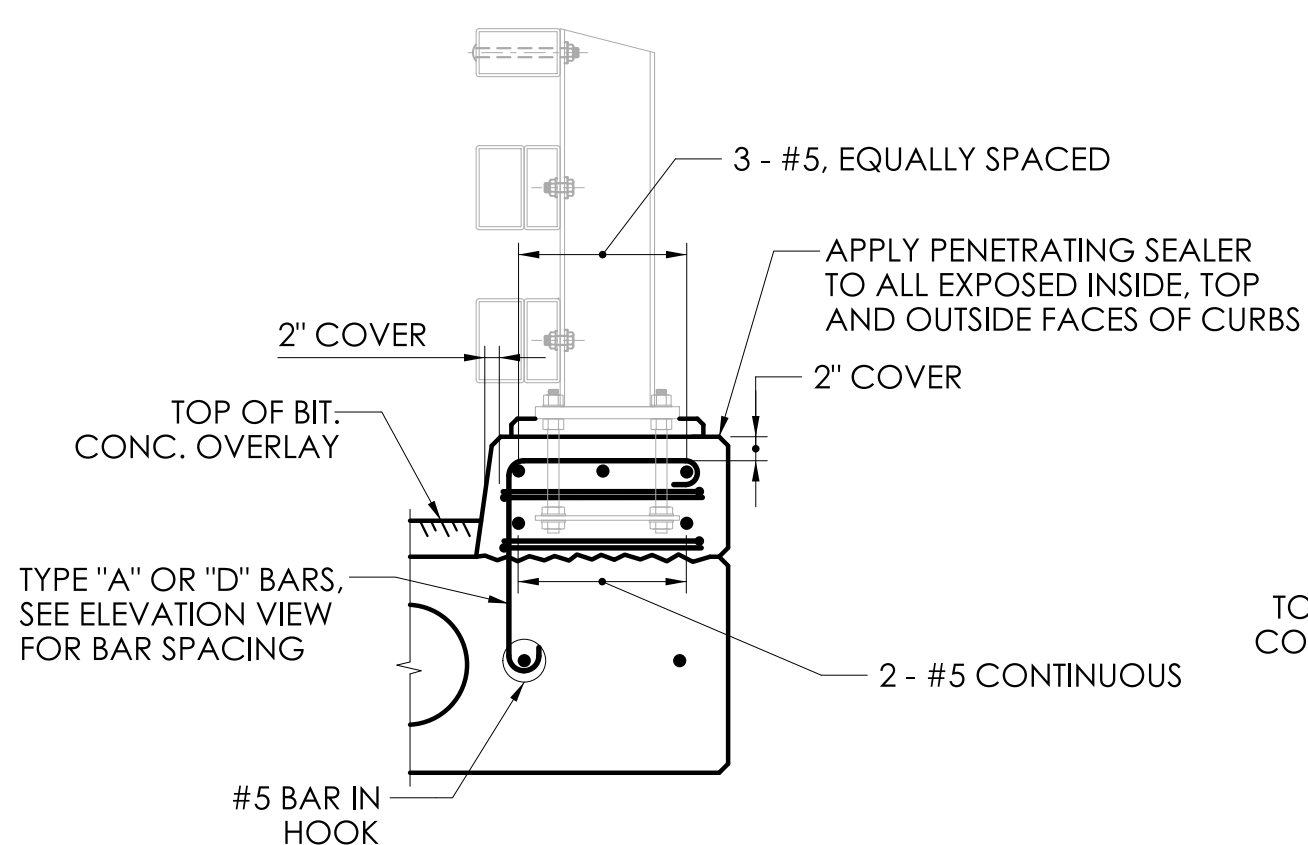
PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: 3-TUBE CURB MOUNTED BRIDGE RAIL DETAILS - 2

DRAWING NO. S-17
SHEET NO. 05.17

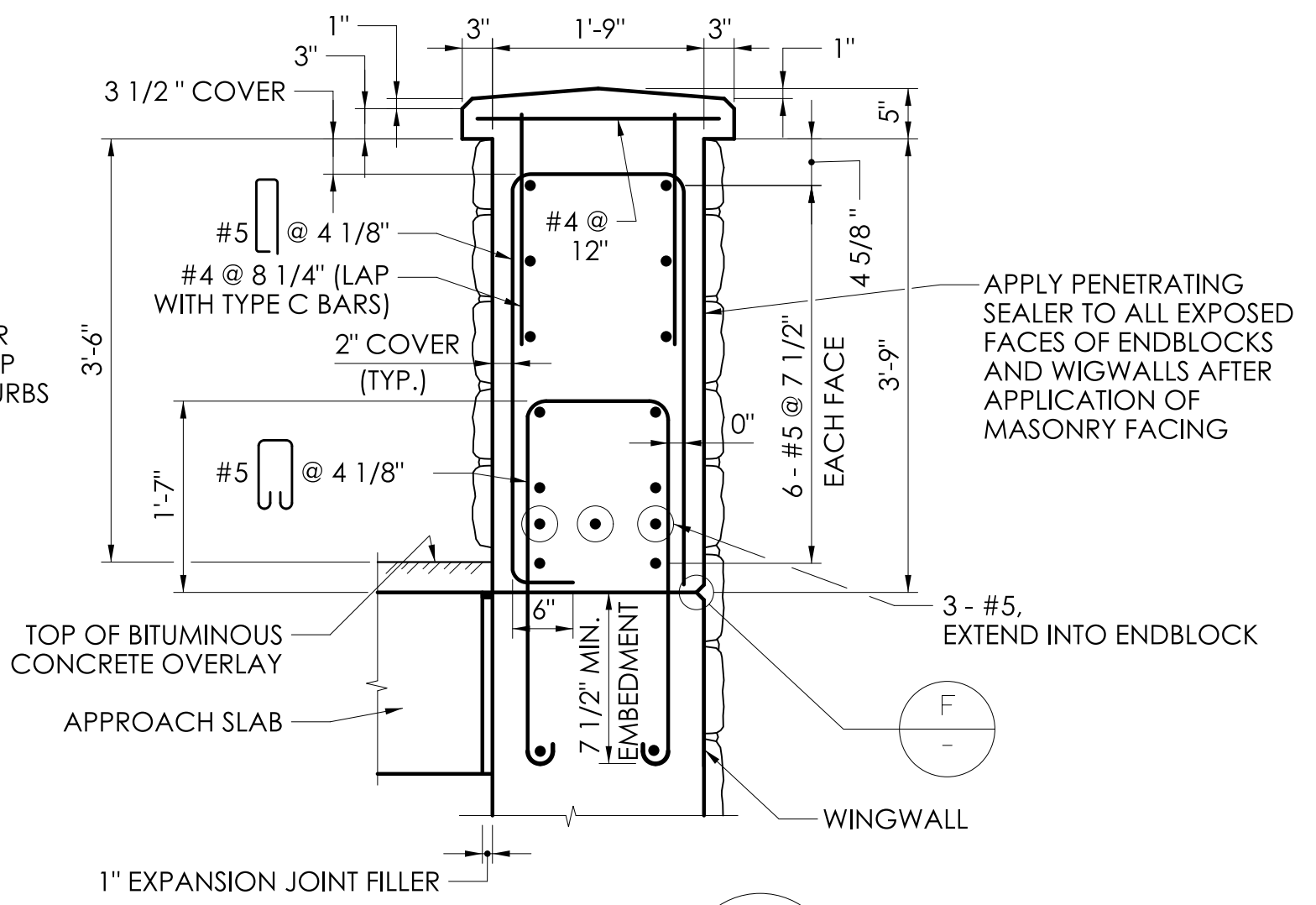
FDP SUBMISSION
SEPTEMBER 28, 2022



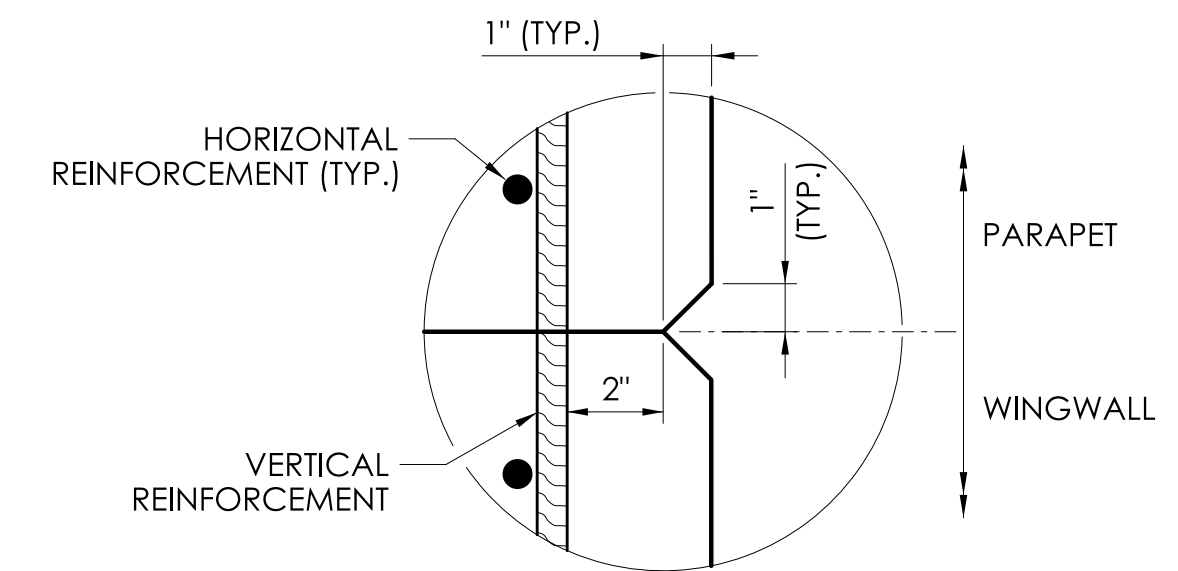
ELEVATION - CURB AND ENDBLOCK REINFORCEMENT
SCALE: 3/4" = 1'-0"



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



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



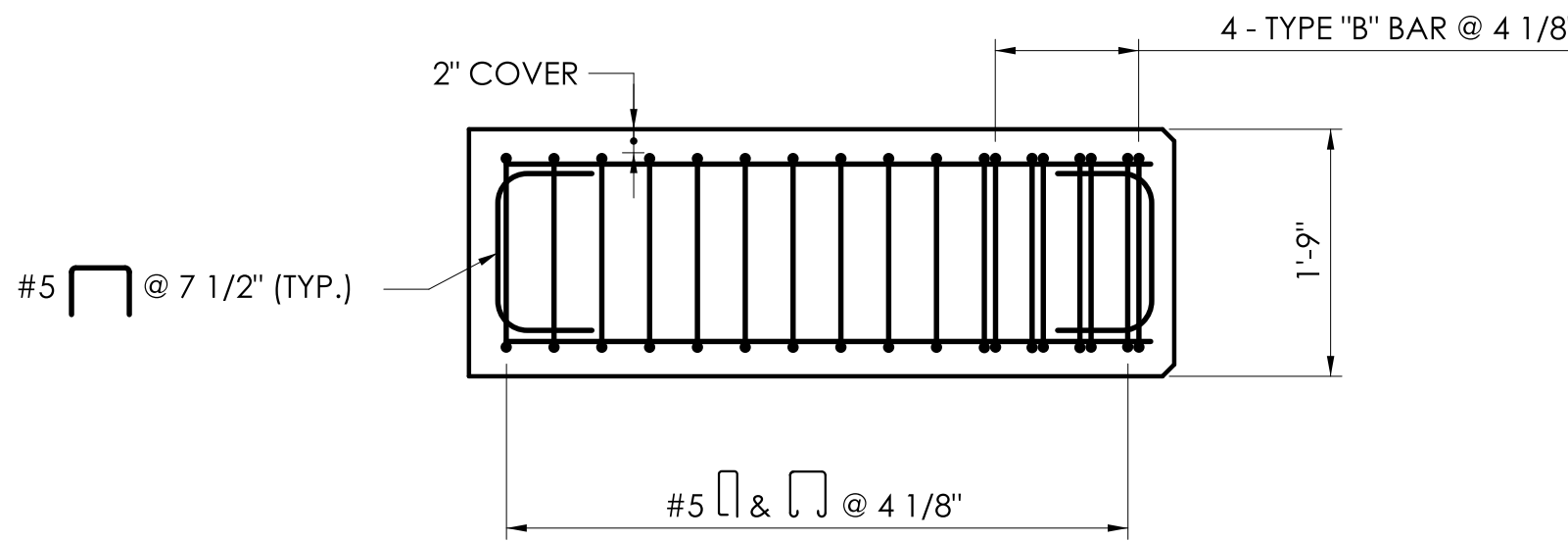
TYPICAL RUSTICATION DETAIL F
SCALE: 3" = 1'-0"

REINFORCEMENT SPLICE NOTES:

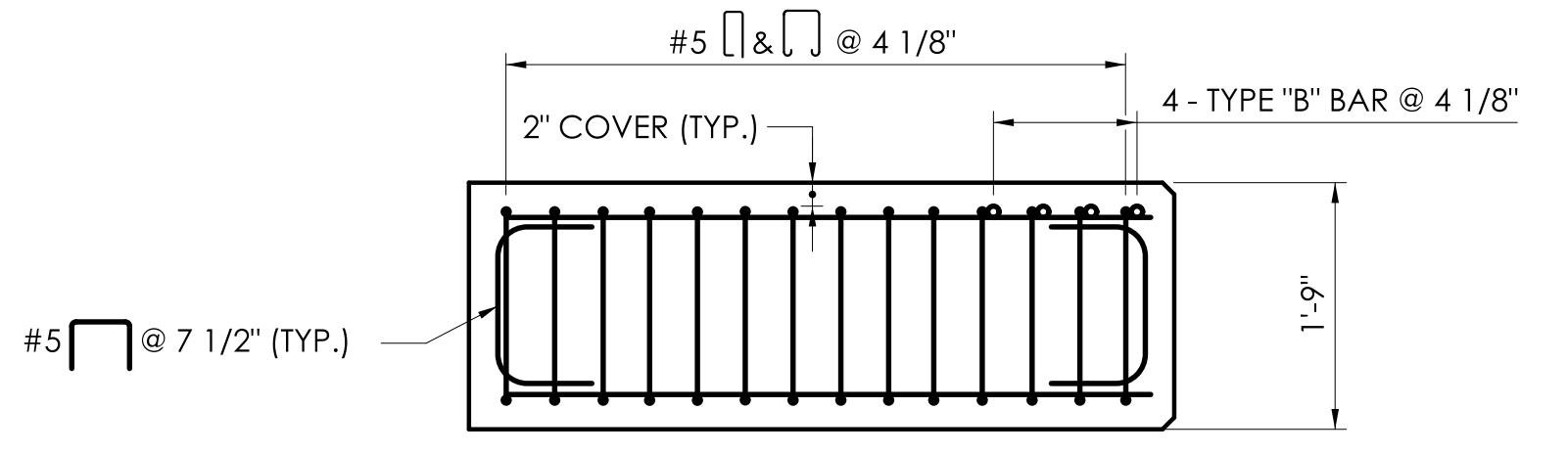
1. THE SPLICE LENGTH FOR THE LONGITUDINAL REINFORCEMENT IN THE CURB AND ENDBLOCK SHALL BE AS FOLLOWS UNLESS DIMENSIONED OTHERWISE:

BAR SIZE	SPLICE LENGTH
#5	2'-4"

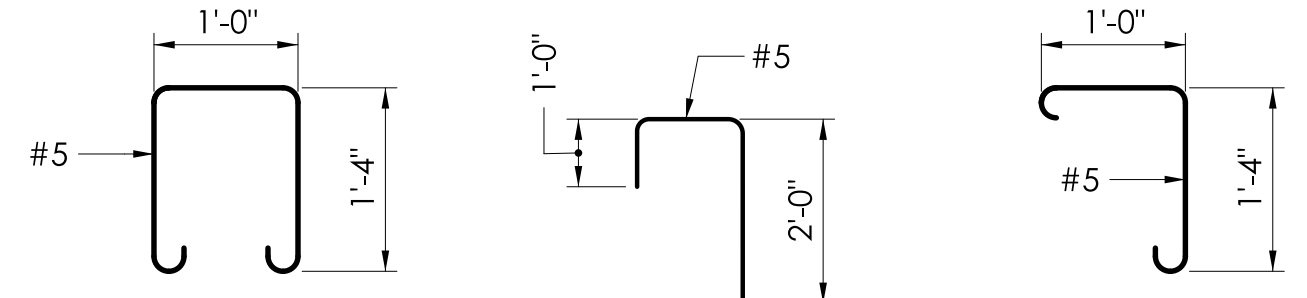
2. THE SPLICES SHALL BE ALTERNATED SO THAT 50% OR LESS OF THE LONGITUDINAL BARS ARE SPLICED AT THE SAME LOCATION.



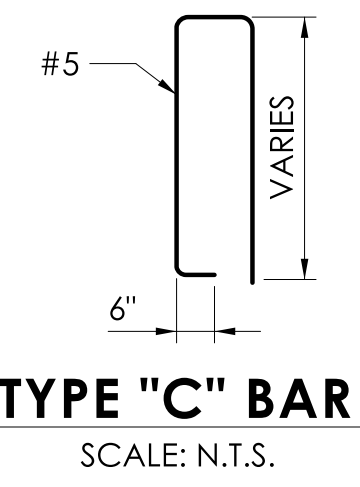
PLAN SECTION - ENDBLOCK REINFORCEMENT C
SCALE: 3/4" = 1'-0"



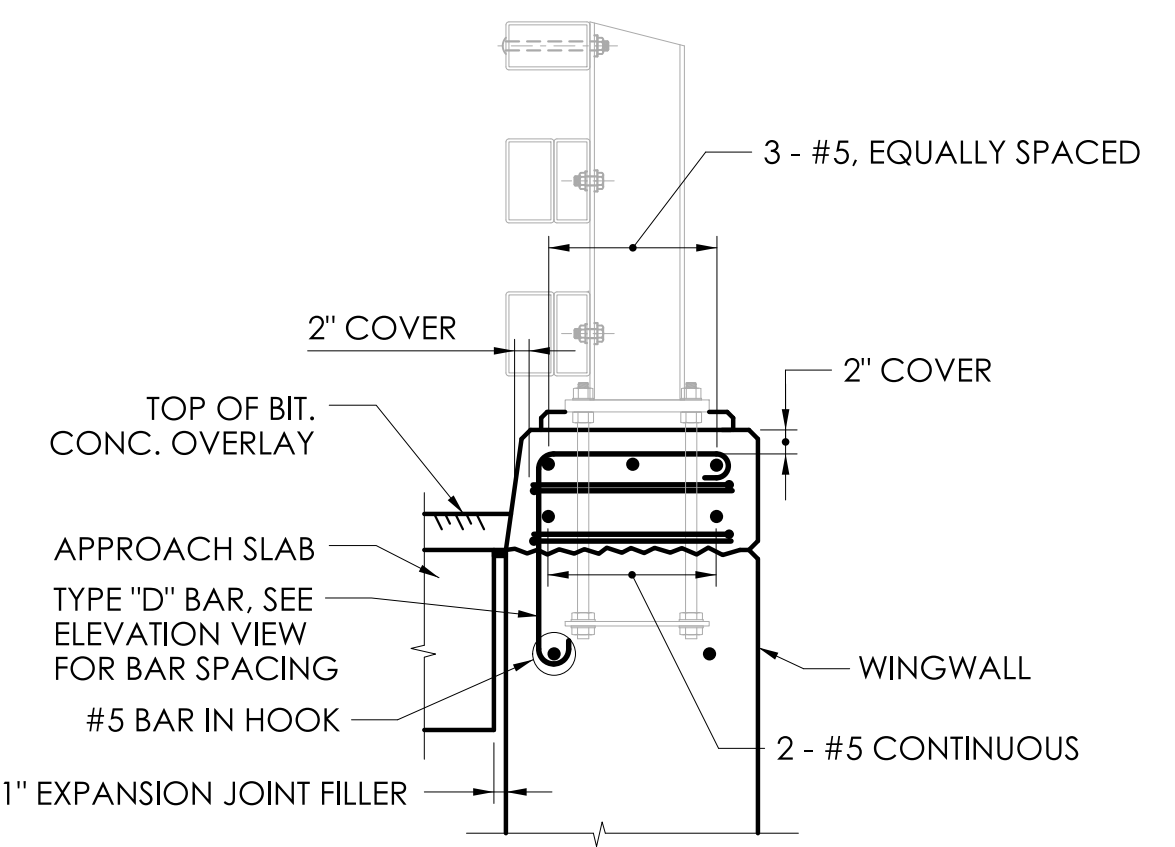
PLAN SECTION - ENDBLOCK REINFORCEMENT D
SCALE: 3/4" = 1'-0"



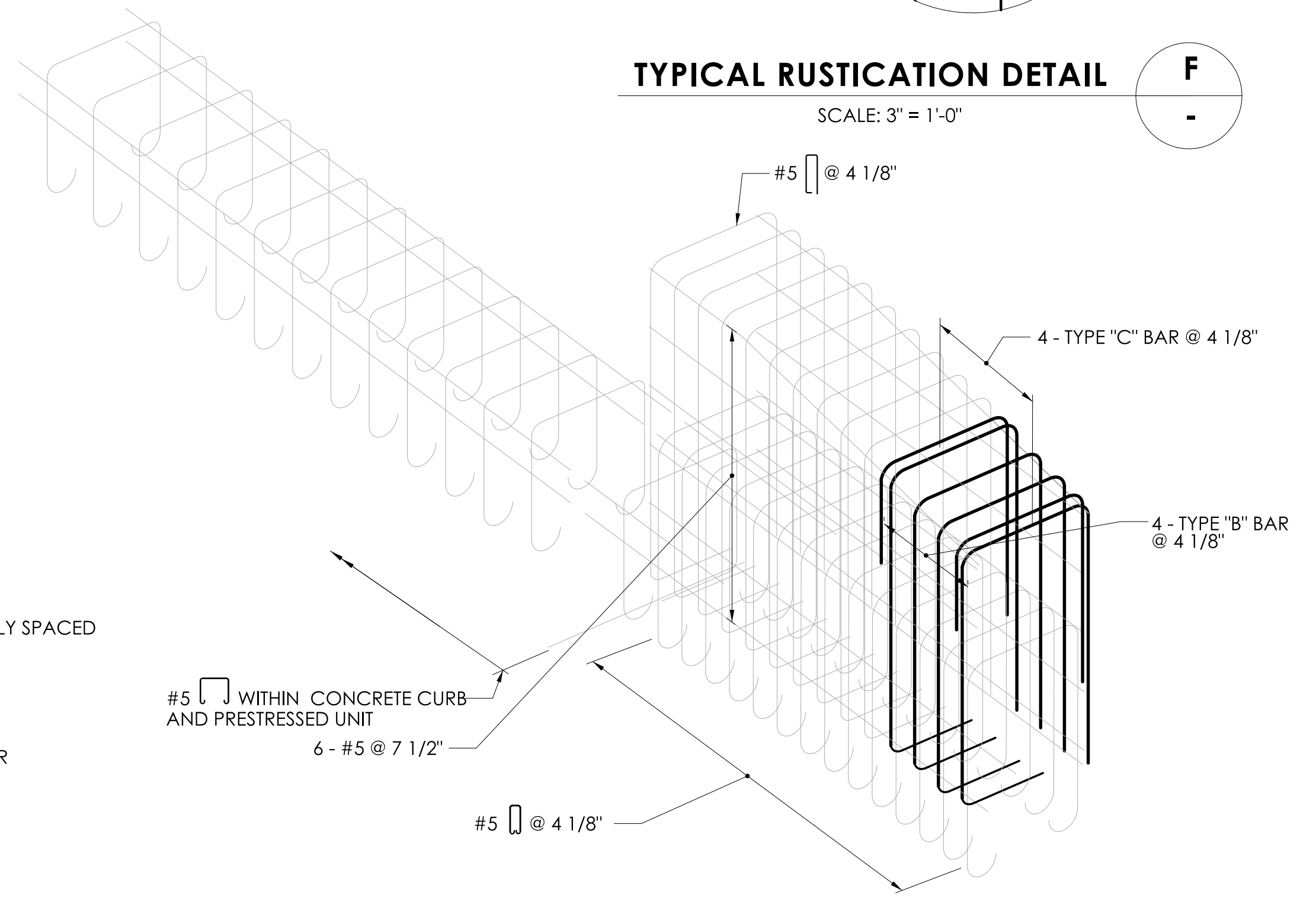
TYPE "A" BAR SCALE: N.T.S.
TYPE "B" BAR SCALE: N.T.S.
TYPE "D" BAR SCALE: N.T.S.



TYPE "C" BAR
SCALE: N.T.S.



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



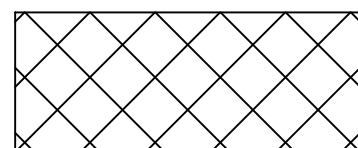

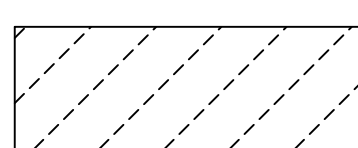

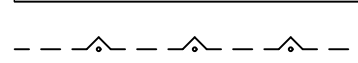
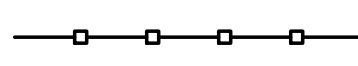

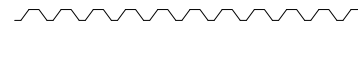
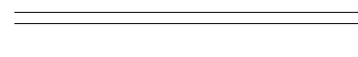
ISOMETRIC VIEW - REINFORCEMENT DETAIL AT ENDBLOCK
SCALE: N.T.S.

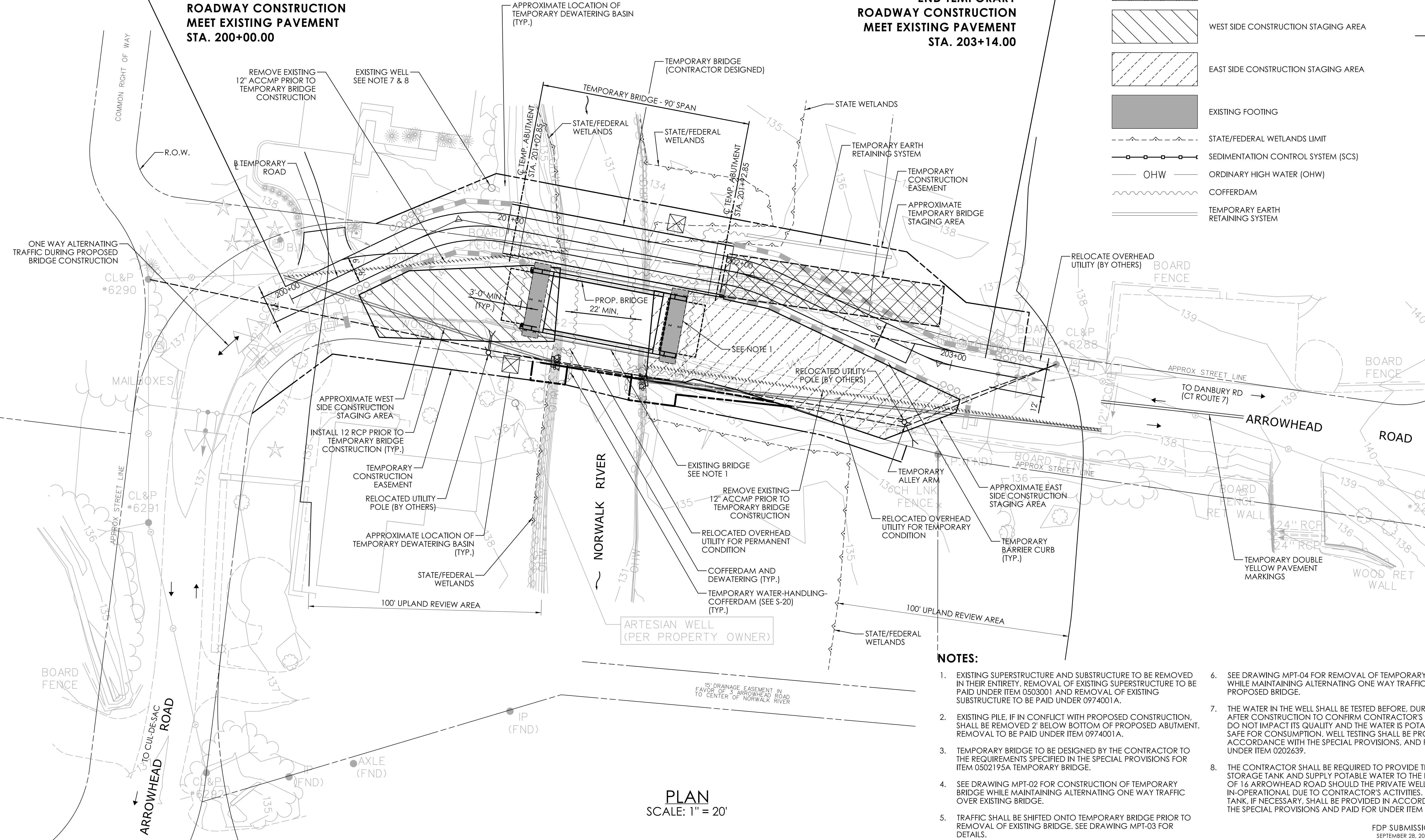
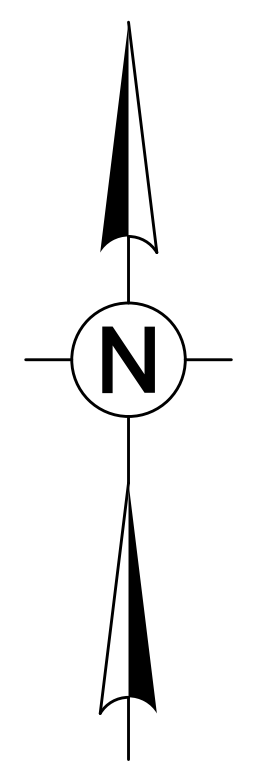
REV.	DATE	REVISION DESCRIPTION

**STATE PROJECT NO 161-143
BEGIN TEMPORARY
ROADWAY CONSTRUCTION
MEET EXISTING PAVEMENT
STA. 200+00.00**

**STATE PROJECT NO 161-143
END TEMPORARY
ROADWAY CONSTRUCTION
MEET EXISTING PAVEMENT
STA. 203+14.00**

LEGEND

-  TEMPORARY BRIDGE STAGING AREA
-  WEST SIDE CONSTRUCTION STAGING AREA
-  EAST SIDE CONSTRUCTION STAGING AREA
-  EXISTING FOOTING
-  STATE/FEDERAL WETLANDS LIMIT
-  SEDIMENTATION CONTROL SYSTEM (SCS)
-  OHW — ORDINARY HIGH WATER (OHW)
-  COFFERDAM
-  TEMPORARY EARTH RETAINING SYSTEM



NOTES:

1. EXISTING SUPERSTRUCTURE AND SUBSTRUCTURE TO BE REMOVED IN THEIR ENTIRETY. REMOVAL OF EXISTING SUPERSTRUCTURE TO BE PAID UNDER ITEM 0503001 AND REMOVAL OF EXISTING SUBSTRUCTURE TO BE PAID UNDER 0974001A.
2. EXISTING PILE, IF IN CONFLICT WITH PROPOSED CONSTRUCTION, SHALL BE REMOVED 2' BELOW BOTTOM OF PROPOSED ABUTMENT. REMOVAL TO BE PAID UNDER ITEM 0974001A.
3. TEMPORARY BRIDGE TO BE DESIGNED BY THE CONTRACTOR TO THE REQUIREMENTS SPECIFIED IN THE SPECIAL PROVISIONS FOR ITEM 0502195A TEMPORARY BRIDGE.
4. SEE DRAWING MPT-02 FOR CONSTRUCTION OF TEMPORARY BRIDGE WHILE MAINTAINING ALTERNATING ONE WAY TRAFFIC OVER EXISTING BRIDGE.
5. TRAFFIC SHALL BE SHIFTED ONTO TEMPORARY BRIDGE PRIOR TO REMOVAL OF EXISTING BRIDGE. SEE DRAWING MPT-03 FOR DETAILS.
6. SEE DRAWING MPT-04 FOR REMOVAL OF TEMPORARY BRIDGE WHILE MAINTAINING ALTERNATING ONE WAY TRAFFIC OVER PROPOSED BRIDGE.
7. THE WATER IN THE WELL SHALL BE TESTED BEFORE, DURING AND AFTER CONSTRUCTION TO CONFIRM CONTRACTOR'S ACTIVITIES DO NOT IMPACT ITS QUALITY AND THE WATER IS POTABLE AND SAFE FOR CONSUMPTION. WELL TESTING SHALL BE PROVIDED IN ACCORDANCE WITH THE SPECIAL PROVISIONS, AND PAID FOR UNDER ITEM 0202639.
8. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY STORAGE TANK AND SUPPLY POTABLE WATER TO THE RESIDENCE OF 16 ARROWHEAD ROAD SHOULD THE PRIVATE WELL BECOME IN-OPERATIONAL DUE TO CONTRACTOR'S ACTIVITIES. STORAGE TANK, IF NECESSARY, SHALL BE PROVIDED IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND PAID FOR UNDER ITEM 1303215A.

PLAN
SCALE: 1" = 20'

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.
 HORIZONTAL SCALE: 1" = 20'
 SIGNATURE/BLOCK: Mott MacDonald

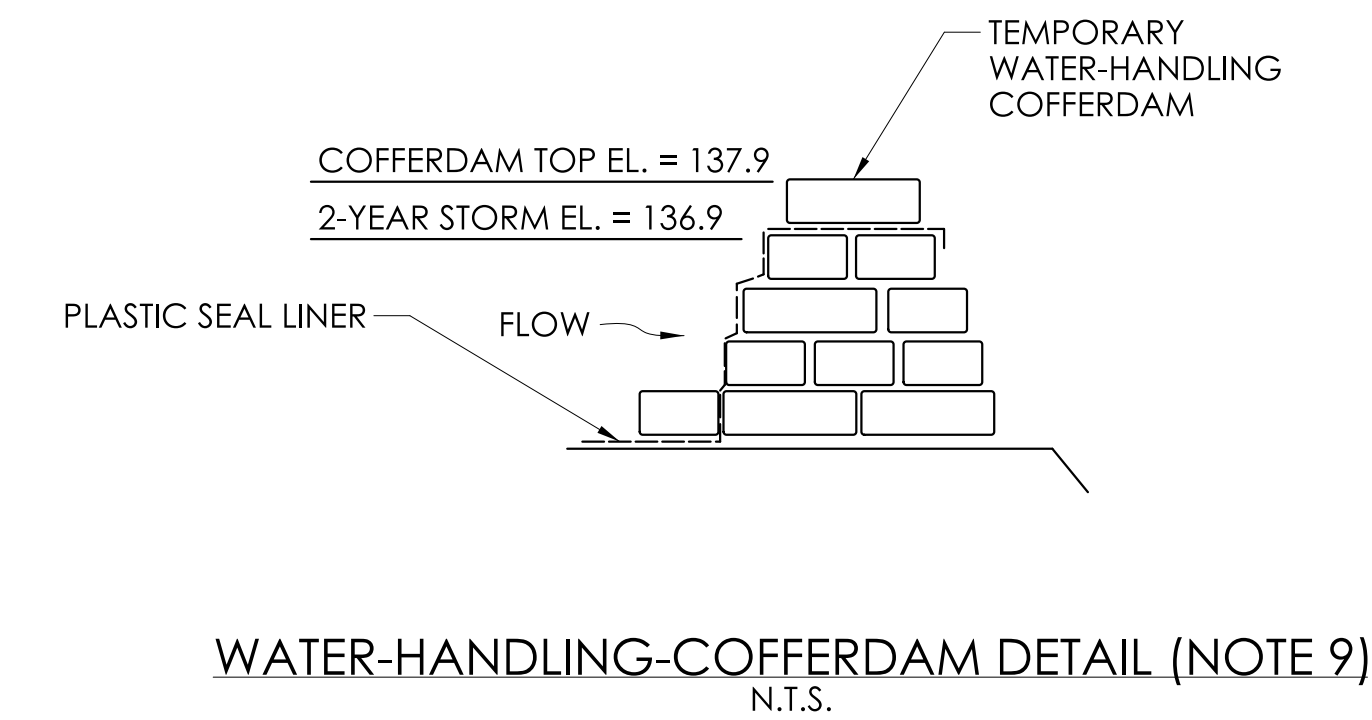
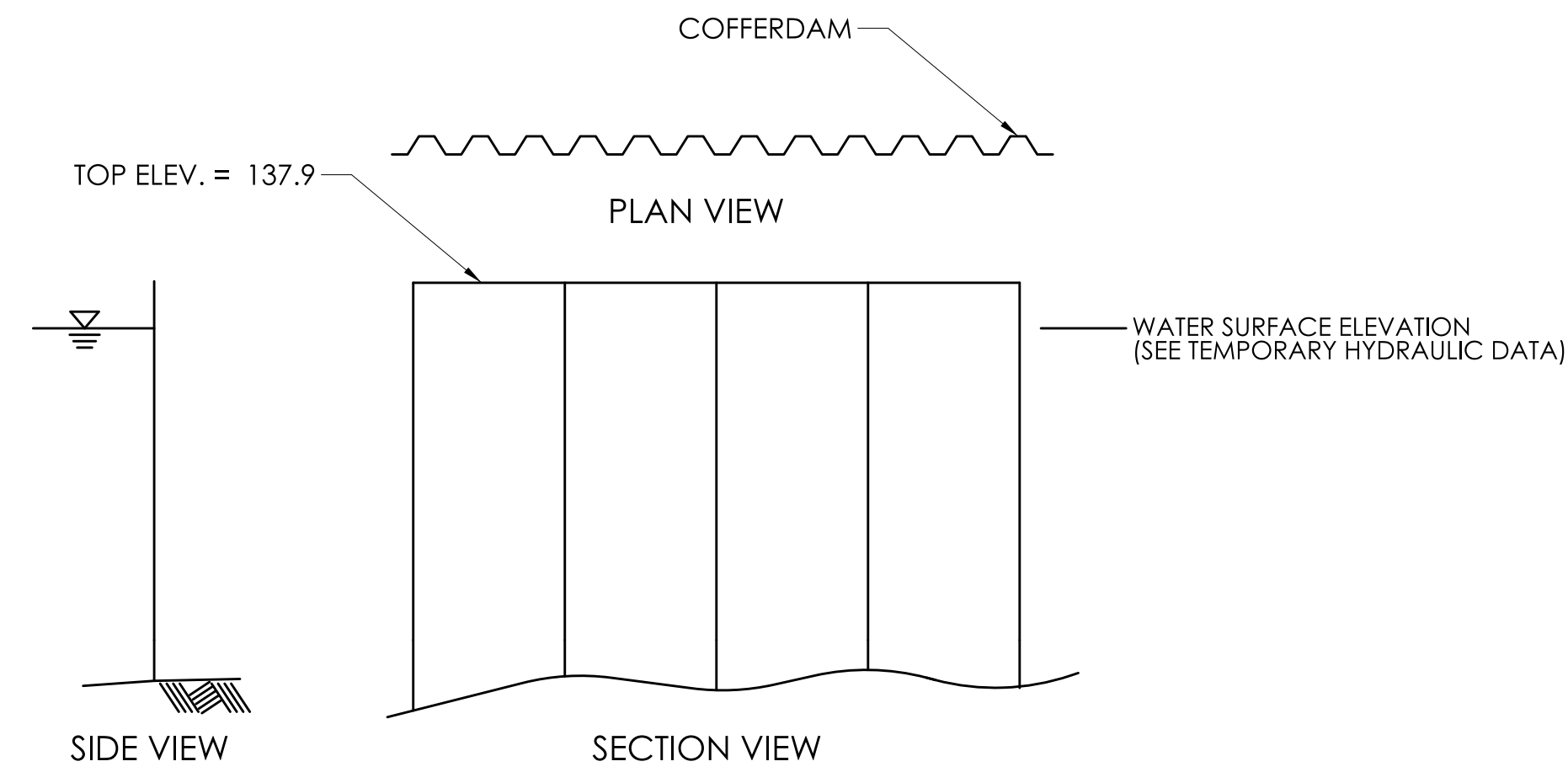
MOTT MACDONALD
 175 CAPITAL BLVD
 4TH FLOOR
 ROCKY HILL, CT 06067

TOWN OF WILTON

PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: WATER HANDLING AND CONSTRUCTION STAGING PLAN
 FDP SUBMISSION
 SEPTEMBER 28, 2022
 DRAWING NO. S-19
 SHEET NO. 05.19

WATER HANDLING NOTES:

1. COFFERDAMS SHALL CONSIST OF ANY APPROVED SYSTEM THAT THE CONTRACTOR DESIGNS AND ELECTS TO USE WHICH WILL SAFELY CONVEY WATER FLOWS THROUGH THE CONSTRUCTION AREA. SHALL BE ABLE TO SUPPORT CONSTRUCTION ACTIVITY AND EXCAVATION, AND SHALL CONFORM TO PERMITS. COFFERDAMS ARE PAID FOR UNDER THE "COFFERDAM AND DEWATERING" ITEM #0204111.
2. BEFORE INITIATING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL THAT DEFINES THE METHODS AND MATERIALS FOR CONTROLLING WATER, STRUCTURE EXCAVATION, AND PROTECTING THE STREAM DURING CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE "COFFERDAM AND DEWATERING" ITEM.
3. EQUIPMENT SHALL NOT BE PERMITTED IN THE RIVER WHEN COFFERDAM AND DEWATERING SYSTEM IS NOT IN PLACE WITHOUT APPROVAL FROM THE ENGINEER.
4. THE INSTALLATION AND REMOVAL OF COFFERDAM AND DEWATERING SYSTEM CAN OCCUR AT ANY TIME OF THE YEAR. WORK BEHIND COFFERDAM CAN OCCUR AT ANY TIME OF THE YEAR.
5. COFFERDAM AND TERS SHALL NOT EXCEED IMPACT AREAS SHOWN ON THE WETLAND AND FLOODPLAIN IMPACT SHEETS OF THE PERMIT PLANS.
6. A DEWATERING BASIN SHALL BE ESTABLISHED OUTSIDE OF THE WETLAND LIMITS. THE LOCATION OF THE DEWATERING BASIN IS APPROXIMATE. THE EXACT POSITION MAY VARY BASED ON THE PUMPING DESIGN SUBMISSION APPROVED BY THE ENGINEER.
7. PRESENCE OF OBSTRUCTIONS IN THE FILL AND NATURAL SOILS, AND THE PRESENCE OF FINE-GRAINED GRANULAR SOILS THAT ARE SUSCEPTIBLE TO DISTURBANCE IN THE PRESENCE OF WATER, SHALL BE CONSIDERED BY THE CONTRACTOR IN DESIGNING AND PROVIDING THE COFFERDAM AND DEWATERING SYSTEM. THE CONTRACTOR SHALL REVIEW THE BORING LOGS ON DRAWINGS S-04, S-05 AND IN THE FINAL GEOTECHNICAL ENGINEERING REPORT.
8. COFFERDAM AND DEWATERING SYSTEM SHALL BE REMOVED IN ITS ENTIRETY AT THE END OF CONSTRUCTION.
9. TEMPORARY-WATER HANDLING-COFFERDAMS SHALL CONSIST OF PLASTIC LINER, SANDBAGS OR ANY OTHER APPROVED SYSTEM THAT THE CONTRACTOR ELECTS TO USE WHICH WILL SAFELY CONVEY WATER FLOWS AROUND THE CONSTRUCTION AREA. SHALL BE ABLE TO SUPPORT CONSTRUCTION ACTIVITY AND EXCAVATION, AND SHALL CONFORM TO PERMITS. TEMPORARY-WATER-HANDLING-COFFERDAMS ARE PAID FOR UNDER "HANDLING WATER". THIS DETAIL APPLIES TO THE CONSTRUCTION OF DRAINAGE PIPE RELOCATIONS, ENDWALLS AND REBUILT STONE WALLS AT THE SOUTHWEST AND SOUTHEAST QUADRANTS OF THE BRIDGE. A 22' (MIN.) CHANNEL OPENING SHALL BE MAINTAINED; INSTALL TEMPORARY-WATER-HANDLING-COFFERDAM ON ONE SIDE OF THE RIVER AT A TIME IF THE CONFIGURATION OF THE SYSTEM DOES NOT ALLOW FOR THE MINIMUM CHANNEL OPENING TO BE MAINTAINED IF INSTALLED SIMULTANEOUSLY ON BOTH SIDES OF THE RIVER.

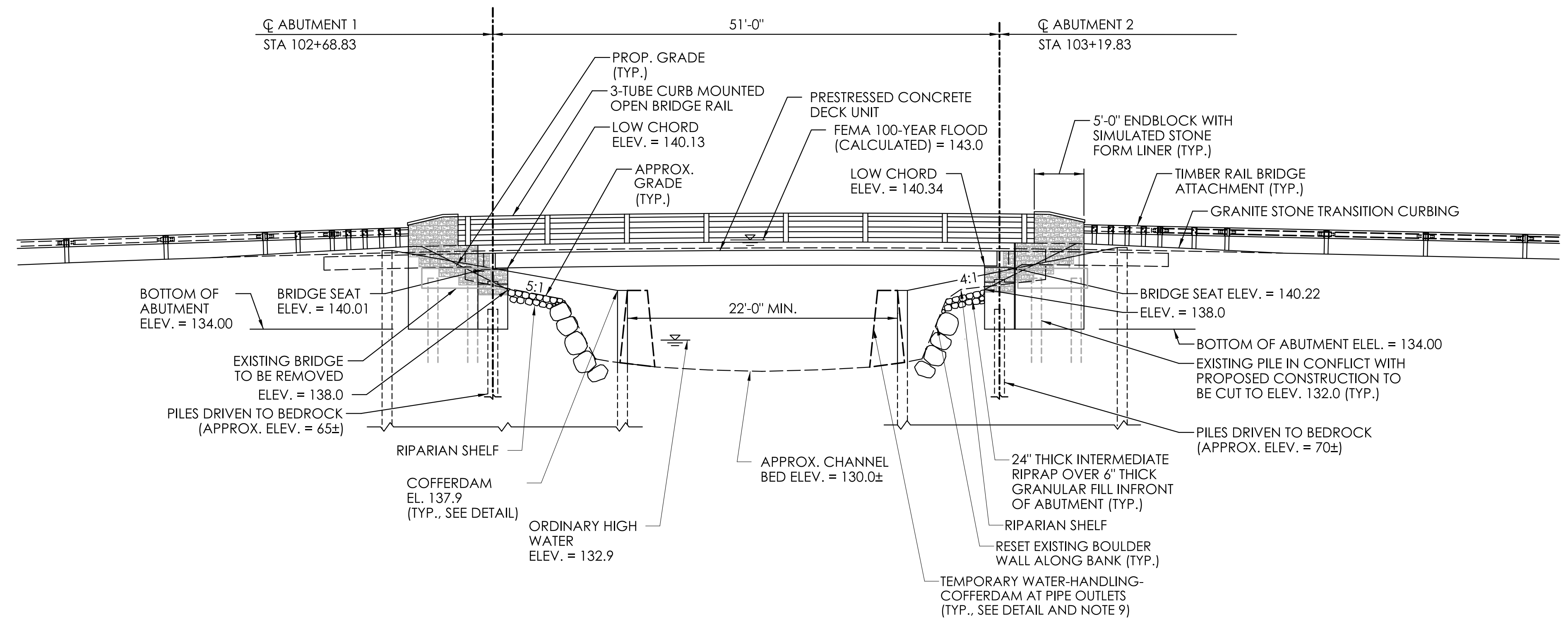


TIME-OF-YEAR RESTRICTIONS

ANY "UNCONFINED" INSTREAM WORK WITHIN THE RIVER SHALL BE RESTRICTED TO THE PERIOD FROM JULY 1 TO SEPTEMBER 30, INCLUSIVE.

SUGGESTED SEQUENCE OF CONSTRUCTION:

1. CLEAR AND GRUB THE WORK AREA AND INSTALL SEDIMENTATION CONTROL SYSTEM (SCS).
2. INSTALL TERS.
3. CONSTRUCT TEMPORARY ROADWAY AND STAGING AREAS.
4. CONSTRUCT TEMPORARY BRIDGE. DIVERT TRAFFIC ONTO TEMPORARY BRIDGE.
5. INSTALL DEBRIS SHIELD ABOVE ELEVATION 138.0 MIN. AND DEMOLISH EXISTING BRIDGE SUPERSTRUCTURE.
6. INSTALL COFFERDAMS.
7. DEMOLISH EXISTING SUBSTRUCTURES AND EXCAVATE FOR PROPOSED SUBSTRUCTURES. CUT OFF EXISTING PILES 2 FEET BELOW BOTTOM OF PROPOSED ABUTMENTS OR WINGWALLS (ELEV. 132.0 MIN.) REMOVE PORTIONS OF EXISTING STONE WALLS AS NEEDED.
8. DRIVE PILES AND CONSTRUCT NEW SUBSTRUCTURES AND BACKFILL.
9. REMOVE COFFERDAMS.
10. COMPLETE CONSTRUCTION OF PROPOSED BRIDGE.
11. DIVERT TRAFFIC ONTO THE PROPOSED BRIDGE AND REMOVE TEMPORARY BRIDGE.
12. REMOVE TREES.
13. COMPLETE SITE RESTORATION.



TEMPORARY HYDRAULIC DATA	
AVERAGE DAILY FLOW (ADF) [CFS]	55
AVERAGE SPRING FLOW (AFS) [CFS]	101
2-YEAR FREQUENCY DISCHARGE [CFS]	1,050
TEMPORARY DESIGN DISCHARGE [CFS]	1,050
TEMPORARY DESIGN FREQUENCY	2-YEAR
TEMPORARY WATER SURFACE ELEVATION [FEET]	UPSTREAM
	DOWNSTREAM
	136.9
	135.7

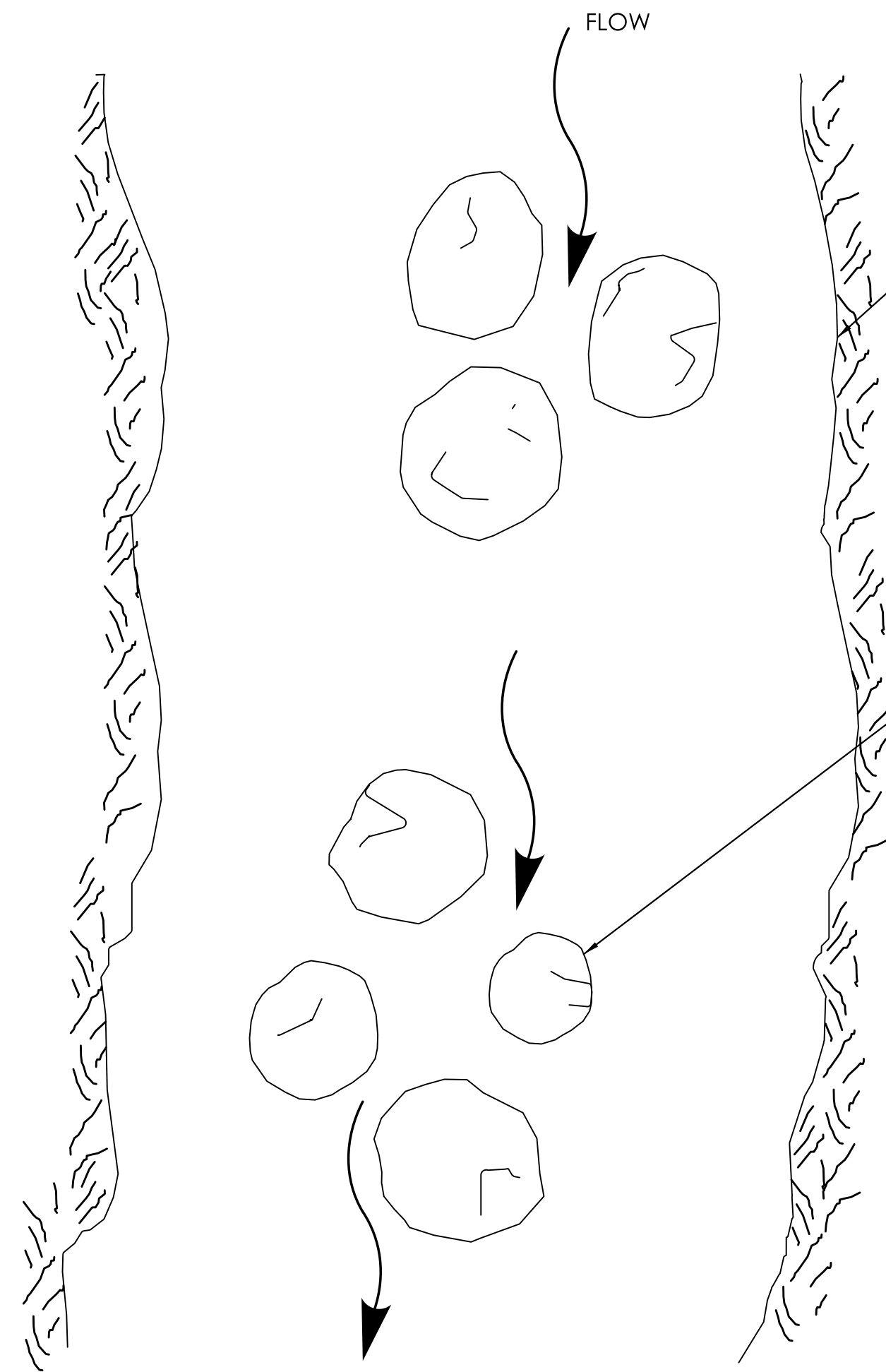
NOTE: ALL TEMPORARY HYDRAULIC DATA PROVIDED BY CHA COMPANIES, INC.

ELEVATION - COFFERDAM AND TEMPORARY WATER HANDLING
SCALE: 1/8" = 1'-0"

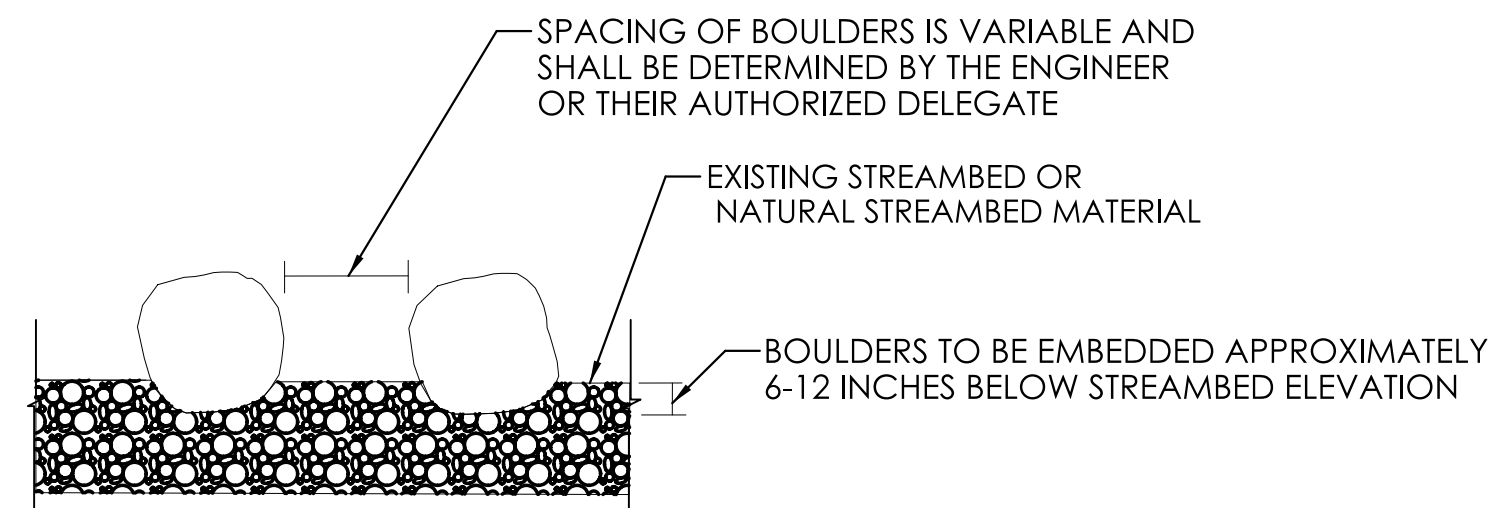
FDP SUBMISSION
SEPTEMBER 28, 2022

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: D.T.K.	CHECKED BY: D.L.	SIGNATURE/BLOCK:	 175 CAPITAL BLVD 4TH FLOOR ROCKY HILL, CT 06067	 TOWN OF WILTON	PROJECT NUMBER: 0161-0143 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER TOWN(S): WILTON DRAWING TITLE: WATER HANDLING AND CONSTRUCTION NOTES AND DETAILS	DRAWING NO. S-20 SHEET NO. 05.20
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PLACEMENT OF CHANNEL BOULDERS
PLAN VIEW
N.T.S.

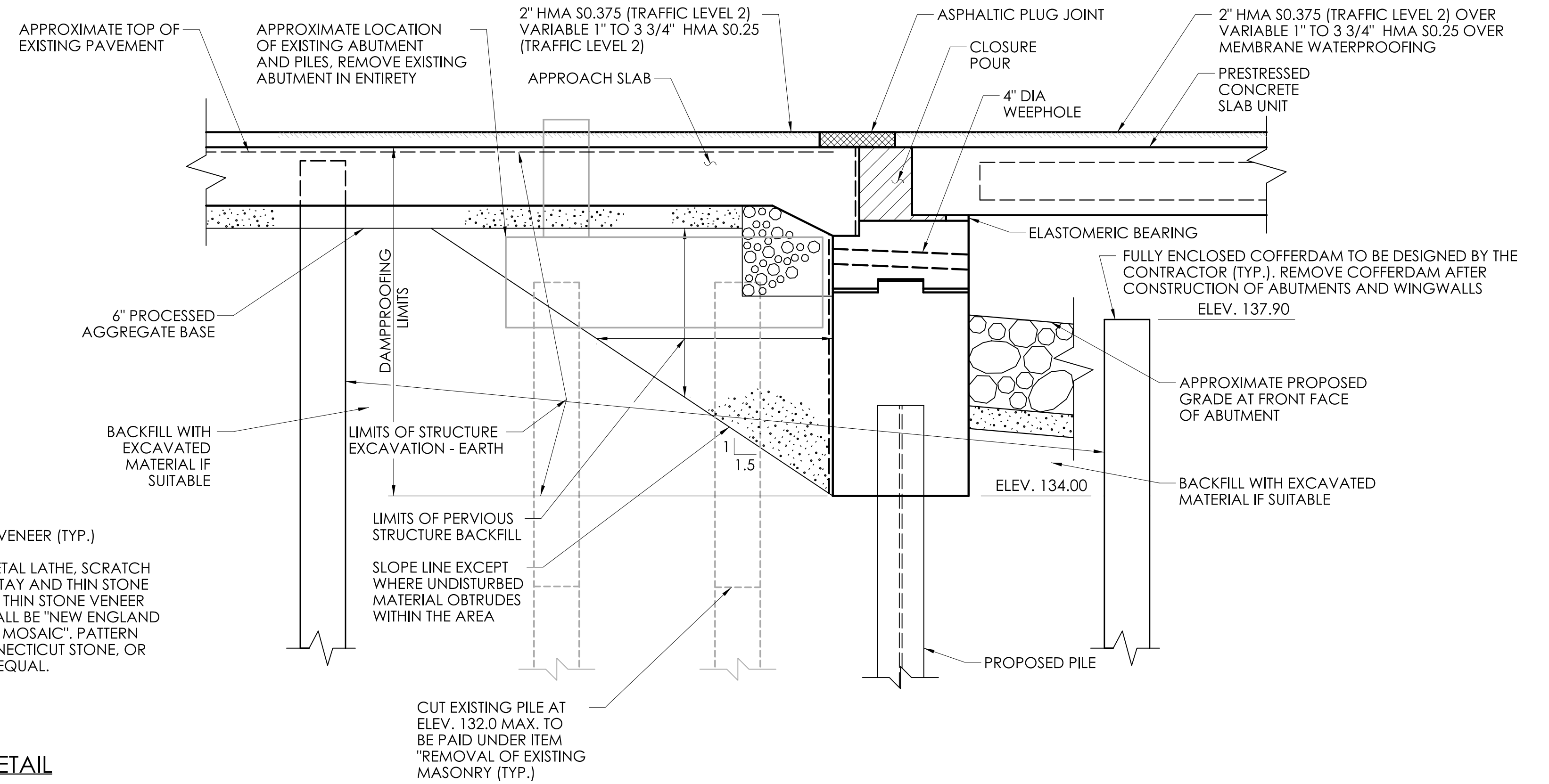
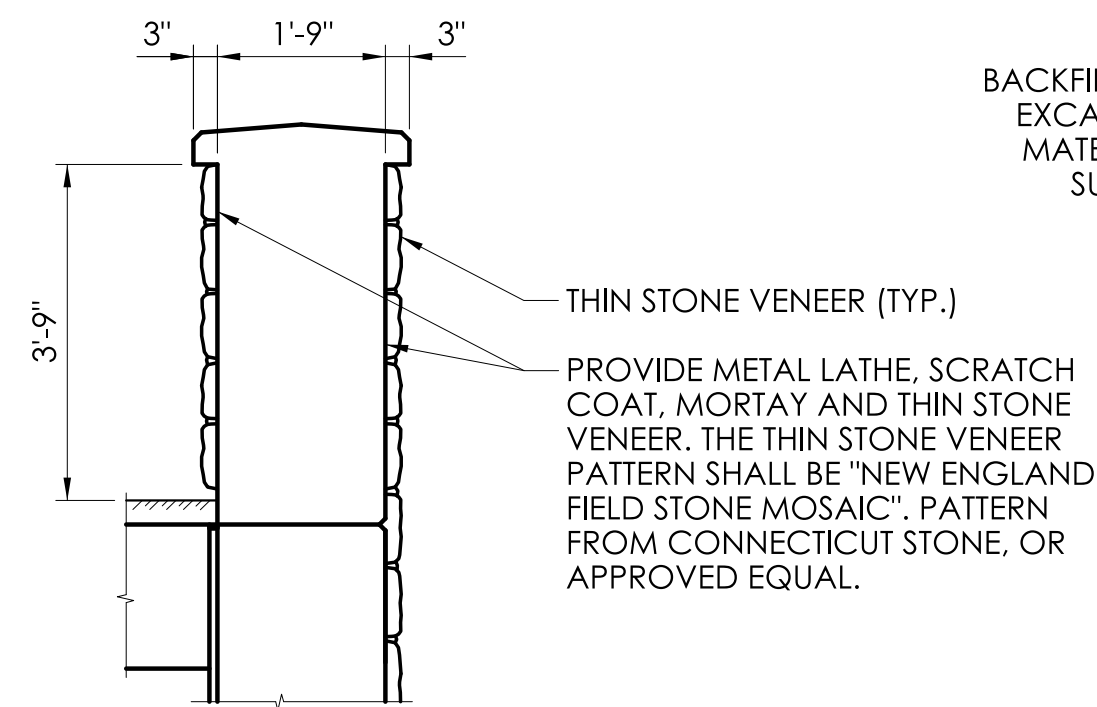


PLACEMENT OF CHANNEL BOULDERS
SECTION VIEW
N.T.S.

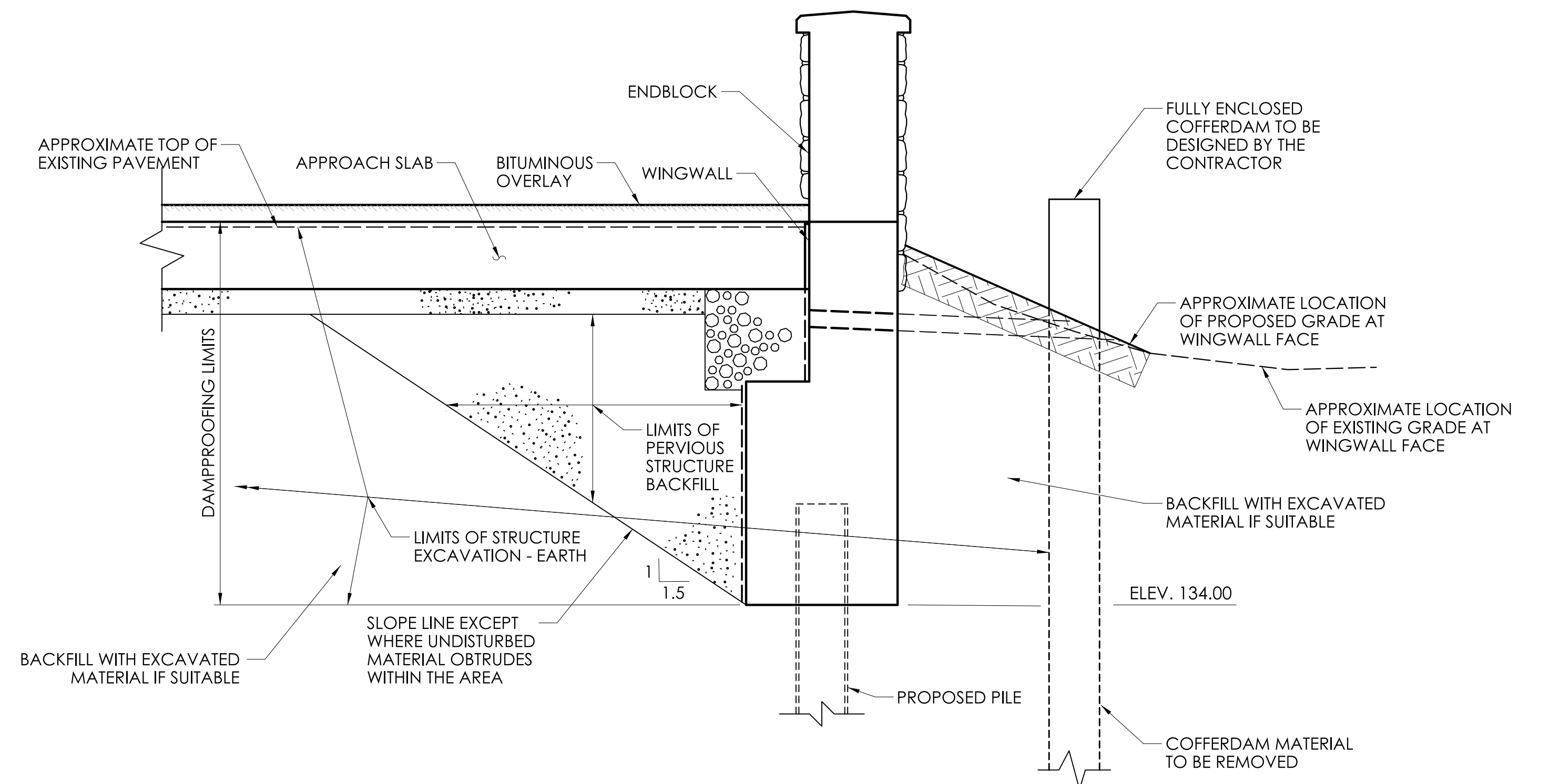
CHANNEL BOULDER NOTES

1. ROUNDED BOULDERS APPROXIMATELY 2' TO 4' FEET IN DIAMETER SHALL BE PLACED IN CLUSTERS AND STABILIZED, AS DIRECTED IN THE FIELD BY THE FISHERIES SPECIALIST FROM THE CTDEEP. SEE SPECIAL PROVISION "PLACEMENT OF CHANNEL BOULDER."
2. FOR MULTIPLE CLUSTERS, THE DISTANCE BETWEEN CLUSTERS WILL BE BASED ON FIELD CONDITIONS.
3. ALL WORK ASSOCIATED WITH THE PLACEMENT OF CHANNEL BOULDERS TO BE PAID FOR UNDER SPECIAL PROVISION "PLACEMENT OF CHANNEL BOULDER". EXISTING OR NATURAL STREAMBED MATERIAL TO BE PAID FOR UNDER SPECIAL PROVISIONS "EXCAVATION AND REUSE OF EXISTING CHANNEL BOTTOM MATERIAL" AND IF SPECIFIED "SUPPLEMENTAL STREAMBED CHANNEL MATERIAL".
4. BOULDERS SHALL BE PLACED WITHIN THE TOWN'S RIGHT-OF-WAY. BOULDERS SHALL NOT BE PLACED UNDER THE BRIDGE.
5. 10 DAYS BEFORE THE INSTALLATION OF THE CHANNEL BOULDERS CONTACT MATT GOCLOWSKI OF DEEP FISHERIES AT MATT.GOCLOWSKI@CT.GOV TO OVERSEE THE INSTALLATION OF THE CHANNEL BOULDERS.

MASONRY FACING INSTALLATION DETAIL
SCALE: 1/2" = 1'-0"



TYPICAL SECTION - ABUTMENT PAY LIMITS
SCALE: 1/2" = 1'-0"



TYPICAL SECTION - WINGWALL PAY LIMITS
SCALE: 1/2" = 1'-0"

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: C.B. CHECKED BY: D.J.L.
SCALE: 1/2" = 1'-0"

SIGNATURE/BLOCK:
Mott MacDonald
175 Capital Blvd
4th Floor
Rocky Hill, CT 06067

M M
MOTT
MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

TOWN OF WILTON

PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: CONSTRUCTION DETAILS

FDP SUBMISSION
SEPTEMBER 28, 2022

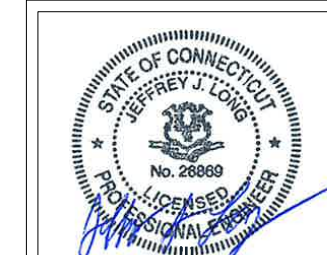
DRAWING NO. S-21
SHEET NO. 05.21

**06 - LANDSCAPE
INDEX OF DRAWINGS**

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
LS-01	LANDSCAPE INDEX OF DRAWINGS		
LS-02	RESTORATION PLANTING PLAN		

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY:
MOTT MACDONALD M M
 175 Capital Blvd
 4th Floor
 Rocky Hill, CT 06067




Jeffrey J. Long
 2022.09.30
 16:37:09-04'00"

FDP SUBMISSION
 SEPTEMBER 28, 2022

DESIGNER/DRAFTER: D.T.K. CHECKED BY: M.D.G.

SIGNATURE/
 BLOCK:



Mott MacDonald
 175 Capital Blvd
 4th Floor
 Rocky Hill, CT 06067.

M M
MOTT MACDONALD
 175 CAPITAL BLVD
 4TH FLOOR
 ROCKY HILL, CT 06067




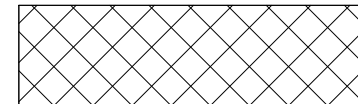


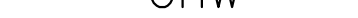



TOWN OF WILTON

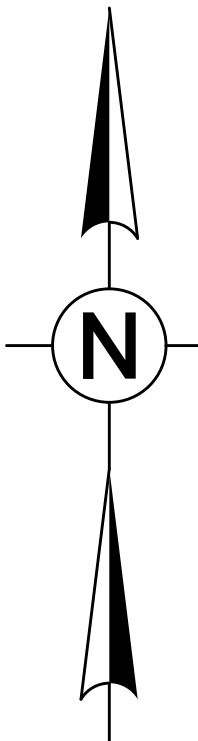


PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: LANDSCAPE INDEX OF DRAWINGS

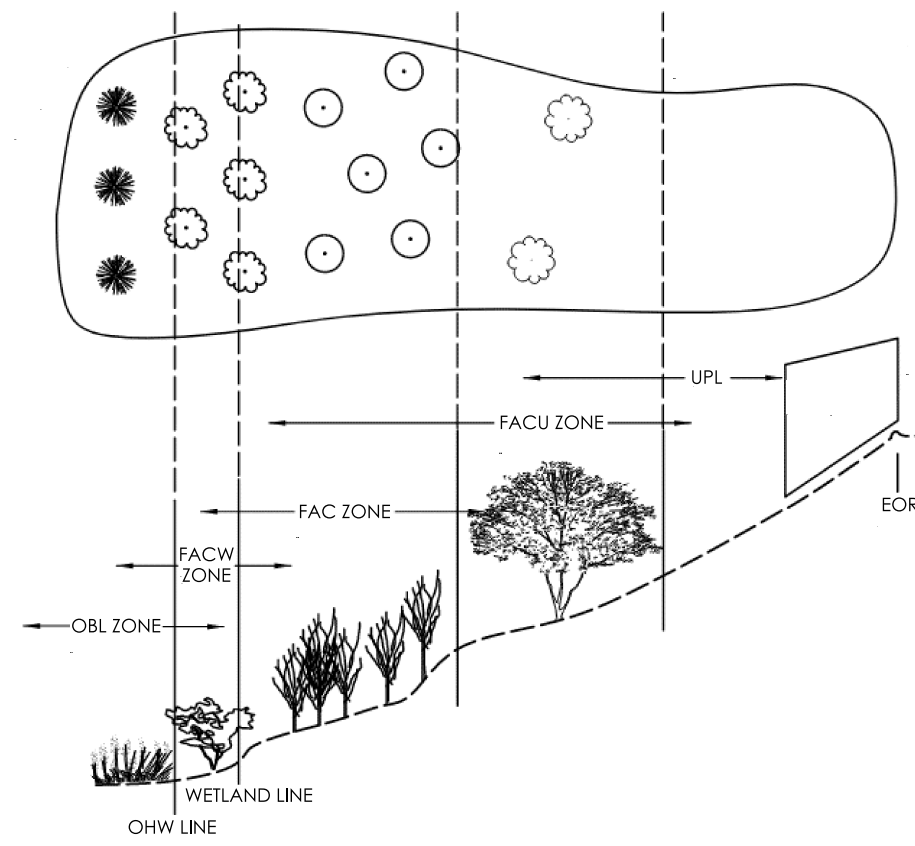
DRAWING NO.
 LS-01
 SHEET NO.
 06.01

LEGEND

-  AREA TO BE RESTORED WITH PLANTINGS
-  CONTROL AND REMOVAL OF INVASIVE VEGETATION (SEE NOTE 9)
-  STATE/FEDERAL WETLANDS LIMIT
-  SEDIMENTATION CONTROL SYSTEM (SCS)
-  OHW — ORDINARY HIGH WATER (OHW)
-  PROPOSED BOULDER CLUSTER
-  (T) TOWN TREE
-  (P) PRIVATE TREE



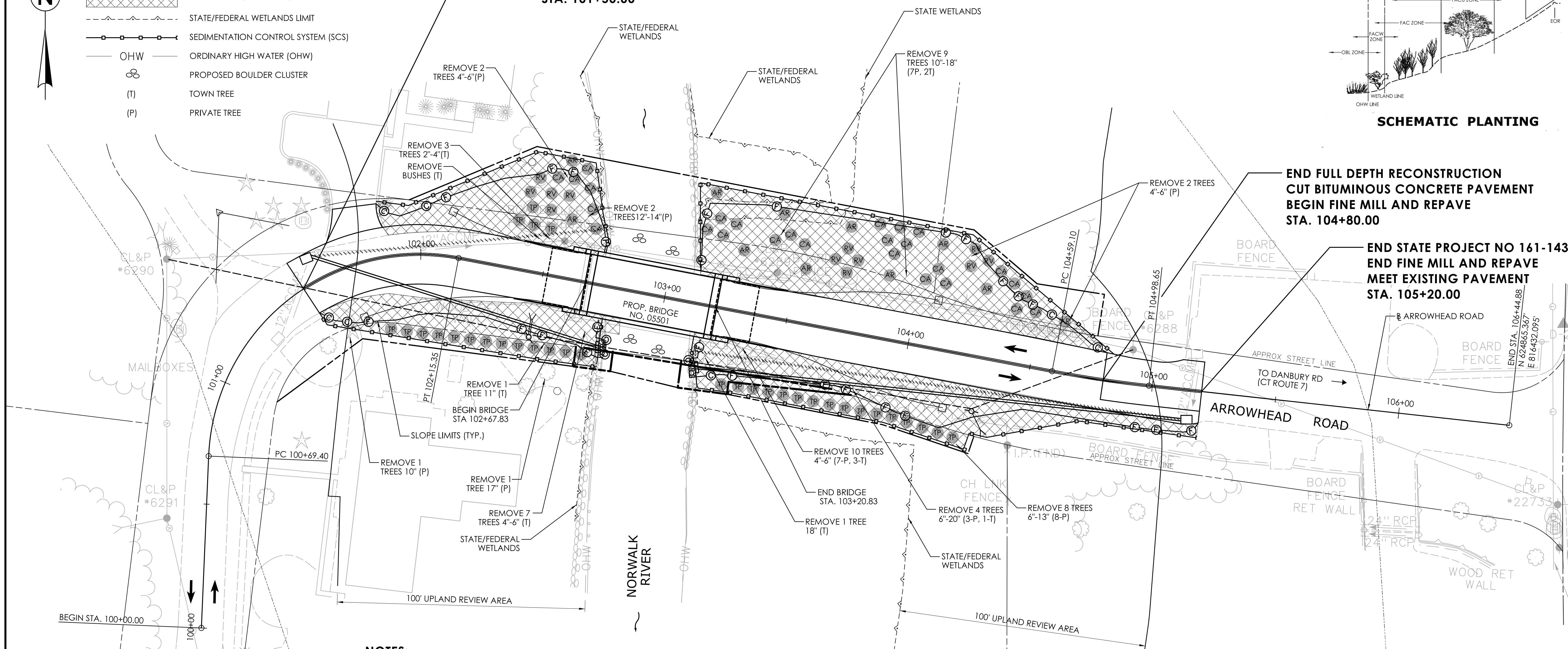
**BEGIN STATE PROJECT NO 161-143
CUT BITUMINOUS CONCRETE PAVEMENT
BEGIN FULL DEPTH RECONSTRUCTION
MEET EXISTING PAVEMENT
STA. 101+50.00**



SCHEMATIC PLANTING

**END FULL DEPTH RECONSTRUCTION
CUT BITUMINOUS CONCRETE PAVEMENT
BEGIN FINE MILL AND REPAVE
STA. 104+80.00**

**END STATE PROJECT NO 161-143
END FINE MILL AND REPAVE
MEET EXISTING PAVEMENT
STA. 105+20.00**



NOTES:

1. DISTURBED AREAS BELOW THE WETLAND LIMIT SHALL BE SEEDED WITH WETLAND GRASS ESTABLISHMENT. DISTURBED AREAS ABOVE THE WETLAND LIMIT SHALL BE SEEDED WITH CONSERVATION SEEDING FOR SLOPES, OR TURF ESTABLISHMENT - LAWN AS SPECIFIED IN NOTE 2 AND 3 BELOW. ALL DISTURBED AREAS SHALL BE RESTORED.
2. DISTURBED AREAS IN THE NORTHWEST QUADRANT SHALL BE RESTORED WITH TURF ESTABLISHMENT - LAWN AS SPECIFIED.
3. DISTURBED AREAS IN THE SOUTHWEST QUADRANT WITHIN THE FILL LINE AND BEHIND THE GUIDERAIL SHALL BE SEEDED WITH CONSERVATION SEEDING FOR SLOPES. ALL OTHER AREAS IN THE SOUTHWEST QUADRANTS SHALL BE RESTORED WITH TURF ESTABLISHMENT - LAWN AS SPECIFIED
4. DISTURBED AREAS IN THE NORTHEAST AND SOUTHEAST QUADRANTS SHALL BE SEEDED WITH CONSERVATION SEEDING FOR SLOPES.
5. ALL PLANT MATERIAL SHALL BE STRAIGHT NATIVE SPECIES. NO VARIETIES OR CULTIVARS WILL BE ACCEPTED.
6. NO PLANTINGS TO BE PLACED IN MOW AREA.
7. PROPOSED PLANTINGS SHALL BE FIELD LOCATED BY THE TOWN OF WILTON OR THEIR DESIGNATED REPRESENTATIVE.
8. WOOD CHIP MULCH SHALL NOT BE PLACED IN THE WETLAND AREA. ABOVE THE WETLAND AREA THE WOOD MULCH IS TO BE PLACED AROUND THE PLANTINGS.
9. AREA TO BE TREATED FOR INVASIVES AND PROPERLY REPAIRED FOR FINAL PLANTING, SEEDING, AND RESTORATION.
10. AREAS IMPACTED BY TEMPORARY SIGNAL EQUIPMENT SHALL BE RESTORED WITH TURF ESTABLISHMENT - LAWN.

LANDSCAPE ITEMS

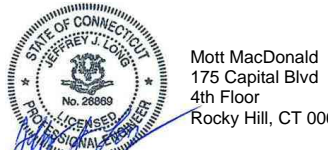
KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	SPACING	WETLAND INDICATOR
CA	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	2'-3' HT. B.B.	27	FIELD LOCATE	FAC+
TP	THUJA PLICATA	GREEN GIANT	6'-8' HT. B.B.	33	FIELD LOCATE	FACW+
AR	ACER RUBRUM	RED MAPLE	2'- 2 1/2' CAL. B.B.	11	FIELD LOCATE	FAC & FACU
RV	RHODODENDRON VISCOSUM	SWAMP AZALEA	24" - 36" HT. B.B.	12	FIELD LOCATE	FAC & FACU
CONTROL AND REMOVAL OF INVASIVE VEGETATION				1,427 S.Y.		
CONSERVATION SEEDING FOR SLOPES				340 S.Y.		
WETLAND GRASS ESTABLISHMENT				62 S.Y.		
WOOD CHIP MULCH				729 S.Y.		
TURF ESTABLISHMENT - LAWN				163 S.Y.		

FDP SUBMISSION
SEPTEMBER 28, 2022

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: D.T.K. CHECKED BY: M.D.G.

LASTED SAVED BY: KIN8393 FILE NAME: c:\pwworking\himm\kin8393\d0144185\LS_C8_Wilton_Landscape Plan.dgn
PLOTTED DATE: 9/29/2022

SIGNATURE/BLOCK:  MOTT MACDONALD

175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067

 TOWN OF WILTON

PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: RESTORATION PLANTING PLAN

DRAWING NO. LS-02
SHEET NO. 06.02

**07 - FOR INFORMATION ONLY
INDEX OF DRAWINGS**

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
FIO-01	FOR INFORMATION ONLY INDEX OF DRAWINGS		
FIO-02	ROADWAY PLAN		
FIO-03	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 1		
FIO-04	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 2		
FIO-05	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 3		
FIO-06	TEMPORARY TRAFFIC SIGNAL CONTROL PLAN - STAGE 1		

REV.	DATE	REVISION DESCRIPTION

FOR INFORMATION ONLY

DESIGNER/DRAFTER: D.T.K. CHECKED BY: M.D.G.

SIGNATURE/
BLOCK:

M M
MOTT
MACDONALD
175 CAPITAL BLVD
4TH FLOOR
ROCKY HILL, CT 06067



TOWN
OF
WILTON



PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: FOR INFORMATION ONLY INDEX OF DRAWINGS

DRAWING NO.
FIO-01
SHEET NO.

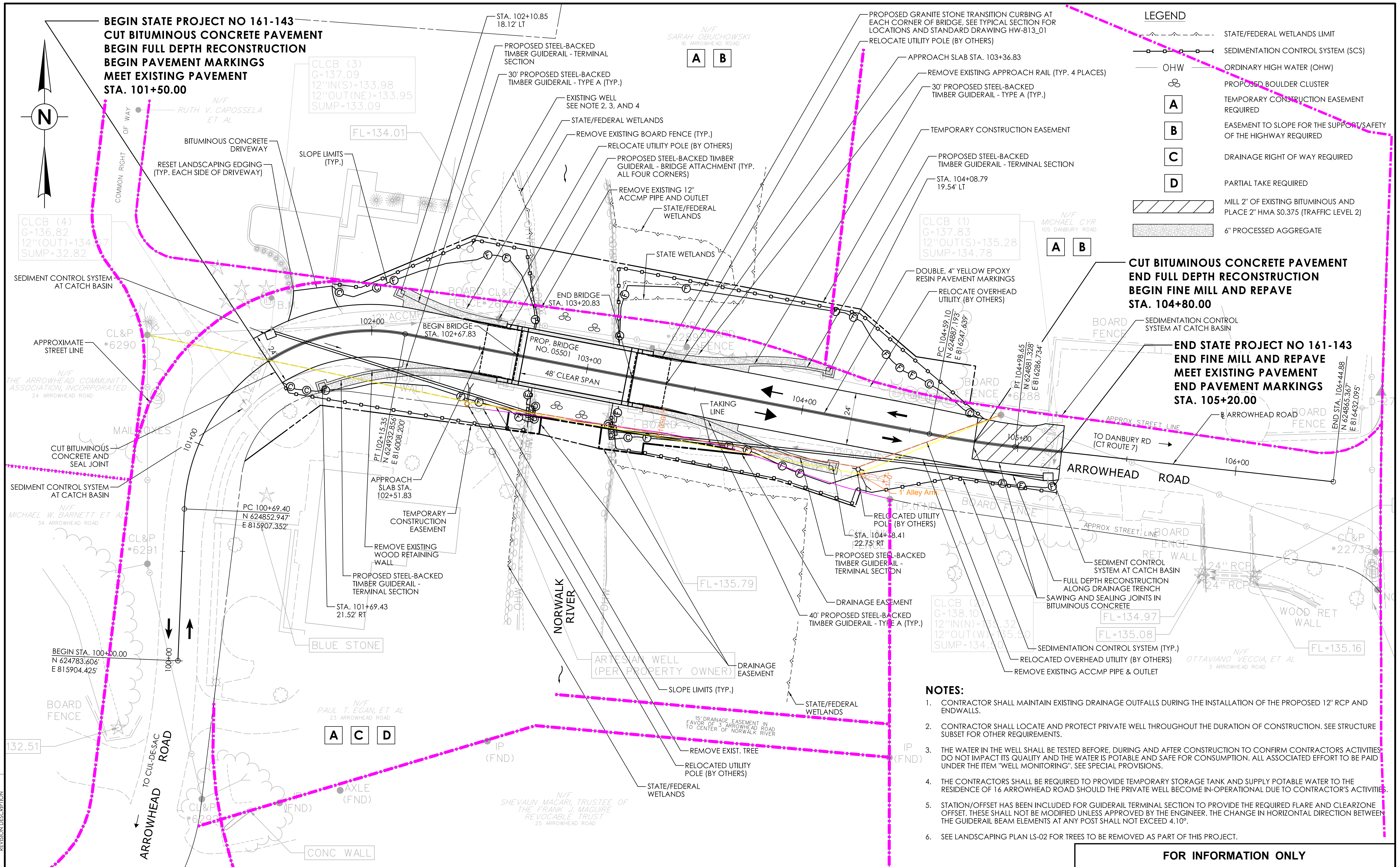
**BEGIN STATE PROJECT NO 161-143
CUT BITUMINOUS CONCRETE PAVEMENT
BEGIN FULL DEPTH RECONSTRUCTION
BEGIN PAVEMENT MARKINGS
MEET EXISTING PAVEMENT
STA. 101+50.00**

LEGEND

- STATE/FEDERAL WETLANDS LIMIT
- SEDIMENTATION CONTROL SYSTEM (SCS)
- OHW - ORDINARY HIGH WATER (OHW)
- PROPOSED BOULDER CLUSTER
- TEMPORARY CONSTRUCTION EASEMENT REQUIRED
- EASEMENT TO SLOPE FOR THE SUPPORT/SAFETY OF THE HIGHWAY REQUIRED
- DRAINAGE RIGHT OF WAY REQUIRED
- PARTIAL TAKE REQUIRED
- MILL 2" OF EXISTING BITUMINOUS AND PLACE 2" HMA S0.375 (TRAFFIC LEVEL 2)
- 6" PROCESSED AGGREGATE

**CUT BITUMINOUS CONCRETE PAVEMENT
END FULL DEPTH RECONSTRUCTION
BEGIN FINE MILL AND REPAVE
STA. 104+80.00**

**END STATE PROJECT NO 161-143
END FINE MILL AND REPAVE
MEET EXISTING PAVEMENT
END PAVEMENT MARKINGS
STA. 105+20.00**



- NOTES:**
- CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE OUTFALLS DURING THE INSTALLATION OF THE PROPOSED 12" RCP AND ENDWALLS.
 - CONTRACTOR SHALL LOCATE AND PROTECT PRIVATE WELL THROUGHOUT THE DURATION OF CONSTRUCTION. SEE STRUCTURE SUBSET FOR OTHER REQUIREMENTS.
 - THE WATER IN THE WELL SHALL BE TESTED BEFORE, DURING AND AFTER CONSTRUCTION TO CONFIRM CONTRACTORS ACTIVITIES DO NOT IMPACT ITS QUALITY AND THE WATER IS POTABLE AND SAFE FOR CONSUMPTION. ALL ASSOCIATED EFFORT TO BE PAID UNDER THE ITEM "WELL MONITORING". SEE SPECIAL PROVISIONS.
 - THE CONTRACTORS SHALL BE REQUIRED TO PROVIDE TEMPORARY STORAGE TANK AND SUPPLY POTABLE WATER TO THE RESIDENCE OF 16 ARROWHEAD ROAD SHOULD THE PRIVATE WELL BECOME IN-OPERATIONAL DUE TO CONTRACTOR'S ACTIVITIES.
 - STATION/OFFSET HAS BEEN INCLUDED FOR GUIDERAIL TERMINAL SECTION TO PROVIDE THE REQUIRED FLARE AND CLEARZONE OFFSET. THESE SHALL NOT BE MODIFIED UNLESS APPROVED BY THE ENGINEER. THE CHANGE IN HORIZONTAL DIRECTION BETWEEN THE GUIDERAIL BEAM ELEMENTS AT ANY POST SHALL NOT EXCEED 4.10°.
 - SEE LANDSCAPING PLAN LS-02 FOR TREES TO BE REMOVED AS PART OF THIS PROJECT.

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: D.T.K. CHECKED BY: M.D.G.

HORIZONTAL SCALE 1" = 20'

SIGNATURE/BLOCK: **M M** MOTT MACDONALD

PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: ROADWAY PLAN

175 CAPITAL BLVD
 4TH FLOOR
 ROCKY HILL, CT 06067

TOWN OF WILTON

DRAWING NO. FIO-02
 SHEET NO.

LASTED SAVED BY: KIN8393 FILE NAME: c:\pwworking\hmm\kin8393\d0137936\HW_CB_Wilton_RWplan.dgn
 PLOTTED DATE: 9/29/2022

GENERAL NOTES

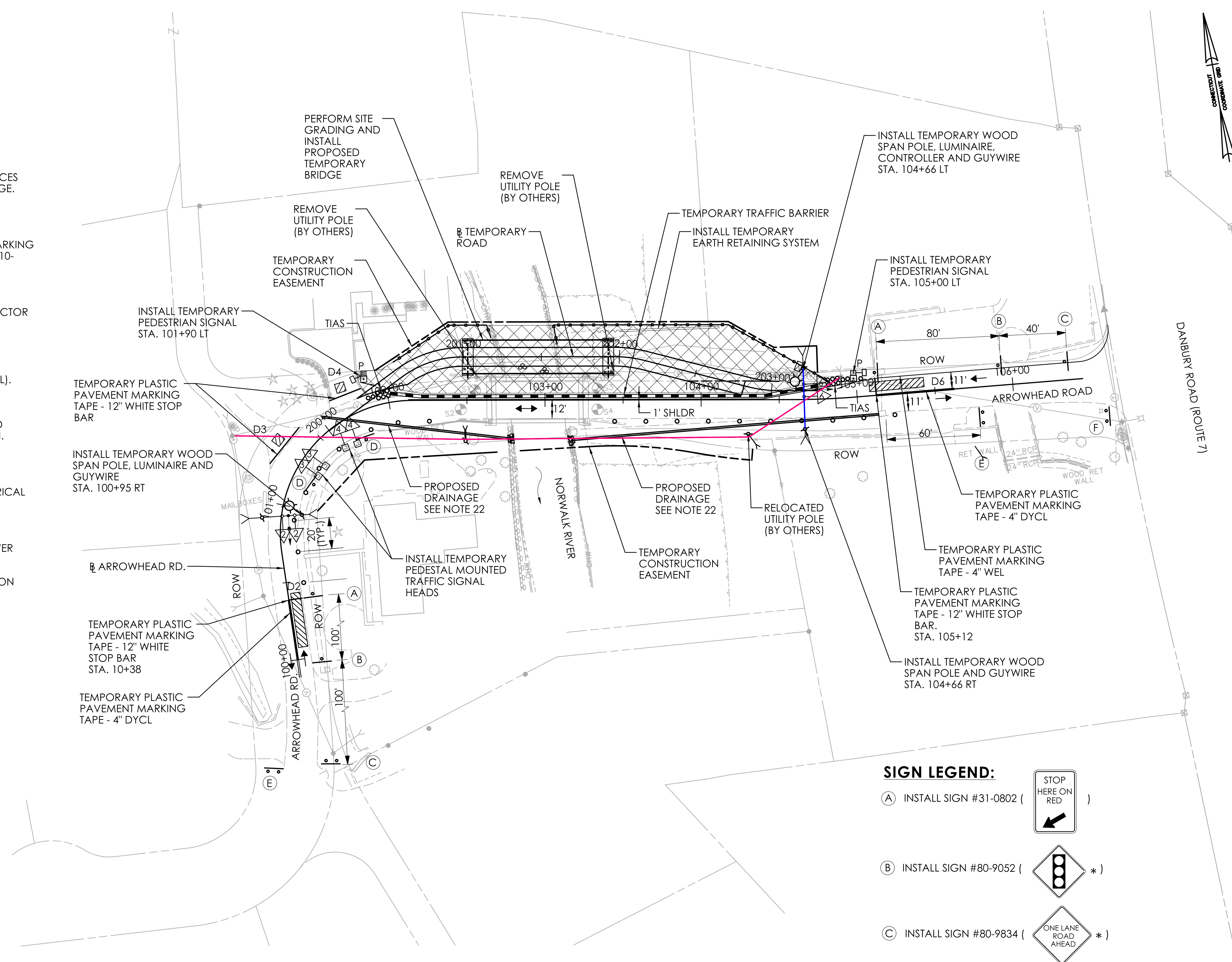
- SEE SPECIAL PROVISION SECTION 1.08 - PROSECUTION AND PROGRESS AND ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC FOR CONSTRUCTION STAGING REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ON-SITE APPROACH SIGNING FOR DURATION OF THIS PROJECT.
- ANY EXISTING SIGNING DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE TOWN.
- ALL CONSTRUCTION SIGNS ARE TO BE PAID FOR UNDER ITEM NO. 1220027 - CONSTRUCTION SIGNS.
- BARRICADE WARNING LIGHTS - HIGH INTENSITY SHALL BE MOUNTED ON ALL DIAMOND SHAPED POST-MOUNTED CONSTRUCTION SIGNS AND PAYABLE UNDER ITEM NO. 0976002 - BARRICADE WARNING LIGHTS - HIGH INTENSITY.
- THE CONTRACTOR SHALL NOTIFY THE CTDOT DISTRICT 3 ENGINEER, THE TOWN OF WILTON, AND ALL EMERGENCY SERVICES AT LEAST TWO WEEKS PRIOR TO IMPLEMENTING A ONE LANE ROAD AND SHIFTING OF TRAFFIC ONTO TEMPORARY BRIDGE.
- THE CORRECT SEQUENCE AND SPACING OF SIGNS MUST BE MAINTAINED AT ALL TIMES, IN ACCORDANCE WITH THE M.U.T.C.D.
- PLASTIC PAVEMENT MARKING TAPE SHALL BE PAID FOR UNDER ITEM NO. 1212001 - TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 4" YELLOW, ITEM NO. 1212002 - TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 4" WHITE, AND ITEM NO. 1212010 - TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 12" WHITE
- EXACT LOCATION OF SIGNS TO BE VERIFIED BY THE ENGINEER IN THE FIELD.
- WHEN EXISTING SIGNAGE CONFLICTS WITH THE PROPOSED TRAFFIC PATTERN SHOWN IN THE M&PT PLANS, THE CONTRACTOR SHALL COVER OR REMOVE THOSE CONFLICTING SIGNS, THE RELOCATION OF EXISTING SIGNS DURING CONSTRUCTION WILL BE PAID FOR UNDER ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.
- TEMPORARY TRAFFIC BARRIER REQUIRES DE-7 DELINEATORS.
- THE CONTRACTOR SHALL SELECT AN APPROVED SAND BARREL SYSTEM FROM THE CTDOT QUALIFIED PRODUCT LIST (QPL). THE CONTRACTOR SHALL INSTALL THE BARREL ARRAY FOR THE DESIGN SPEED OF ≤ 30 MPH, AS RECOMMENDED BY THE MANUFACTURER.
- COORDINATE THE INSTALLATION OF TEMPORARY WOOD SPAN POLES AND GUYING REQUIREMENTS WITH EXISTING AND PROPOSED OVERHEAD UTILITIES LINES AND POLES TO FACILITATE MAINTAINING THE SPANWIRE DURING CONSTRUCTION.
- INSTALL GUY WIRE AT EACH TEMPORARY WOOD SPAN POLE LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR THE GUYING OF ALL TEMPORARY WOOD POLES.
- THE CONTRACTOR SHALL CONTACT EVERSOURCE ENERGY TO COORDINATE THE INSTALLATION OF TEMPORARY ELECTRICAL SERVICE. SEE NOTICE TO CONTRACTOR, SECTION 1.07 - LEGAL RELATIONS AND RESPONSABILITIES, FOR CONTACT INFORMATION.
- POWER FOR TEMPORARY LUMINAIRES SHALL BE ELECTRICALLY FED FROM A 20 AMP SINGLE POLE CIRCUIT BREAKER LOCATED IN THE TEMPORARY SIGNAL CABINET. SEE TEMPORARY SIGNALIZATION FOR ADDITIONAL INFORMATION. POWER WILL BE PAID UNDER ITEM #1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1).
- TRAFFIC SIGNAL HEADS SHALL BE 16' TO 18' ABOVE THE ROADWAY AND SHALL BE SPACED BETWEEN 8' AND 20' APART ON THE SPAN. THE TEMPORARY WOOD SPAN POLE SHOULD BE SIZED TO ALLOW FOR THIS REQUIREMENT TO BE MET.
- TEMPORARY VEHICLE DETECTION SHALL BE INSTALLED AND SHALL BE PAID FOR UNDER ITEM #1118051A- TEMPORARY SIGNALIZATION (SITE NO. 1). SEE SPECIAL PROVISION FOR TEMPORARY VEHICLE DETECTION REQUIREMENTS.
- PROPOSED TEMPORARY SIGNALIZATION TO BE INSTALLED PRIOR TO STAGE 1 USING DAILY ALTERNATING 1-WAY STOP CONTROLLED LANE CLOSURES IWTH TRAFFIC PERSON AS NEEDED. COVER TRAFFIC SIGNAL HEADS UNTIL FUTURE USE IN STAGE 1. SEE TEMPORARY SIGNALIZATION PLANS FOR ADDITIONAL INFORMATION.
- SEE HIGHWAY AND DRAINAGE PLANS FOR REQUIRED DRAINAGE WORK AND COORDINATE THE INSTALLATION WITH TEMPORARY SIGNALIZATION WORK.
- THE CONTRACTOR SHALL NOT USE LOOP DETECTION FOR TEMPORARY VEHICLE DETECTION. CONTRACTOR SHALL UTILITY NON-DESTRUCTIVE METHODS SUCH AS VIDEO OR RADAR.
- PROPOSED DRAINAGE TO BE INSTALLED PRIOR TO STAGE 1 USING DAILY ALTERNATING 1-WAY STOP CONTROLLED LANE CLOSURES WITH TRAFFIC PERSON AS NEEDED. SEE HIGHWAY PLANS FOR ADDITIONAL INFORMATION.

LEGEND:

- TEMPORARY TRAFFIC BARRIER
- WORK AREA
- TRAFFIC FLOW
- INERTIAL SYSTEM (SANDBARRELS) IMPACT VELOCITY ≤ 30 MPH (TIAS)
- TEMPORARY LUMINAIRE AND BRACKET (150 WATT HPS) MOUNTED TO TEMPORARY TRAFFIC SIGNAL SPAN POLE
- TRAFFIC DRUM
- HIGH INTENSITY BARRICADE WARNING LIGHT
- SEDIMENT CONTROL SYSTEM
- DETECTION ZONE. SEE NOTE 21
- TRAFFIC SIGNAL FACE

PAVEMENT MARKING ABBREVIATIONS:

DYCL - DOUBLE YELLOW CENTER LINE
WEL - WHITE EDGE LINE



SIGN LEGEND:

- (A) INSTALL SIGN #31-0802 ()
- (B) INSTALL SIGN #80-9052 () *
- (C) INSTALL SIGN #80-9834 () *
- (D) INSTALL SIGN #31-0830 ()
- (E) INSTALL SIGN #80-9611 ()
- (F) INSTALL SIGN #80-9928 ()

FOR INFORMATION ONLY

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: RL CHECKED BY: CL

LASTED SAVED BY: Regina Lopez FILE NAME: I:\Projects\222-103 Wilton 161-143\Traffic\Contract_Plans\TR_CP_161_143_STAGE1.dgn
PLOTTED DATE: 9/27/2022

SIGNATURE/BLOCK:

VN ENGINEERS INC.
Traffic • Infrastructure • Planning

110 WASHINGTON AVENUE
SOUTH BRITAIN, CT 06487
860.399.7662

TOWN OF WILTON

PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - STAGE 1

DRAWING NO. **FIO-03**
SHEET NO.

NOTES:

- SEE MPT-01 FOR GENERAL NOTES.
- REFER TO THE PLANS ON THIS SHEET FOR THE GENERAL LOCATION OF "PINNED" BARRIER.
- 1' MINIMUM SHOULDER ALONG THE TEMPORARY ROADWAY. REFER TO THE HIGHWAY SUBSET FOR THE TEMPORARY ROADWAY TYPICAL SECTIONS.
- TEMPORARY TRAFFIC BARRIER AND CONSTRUCTION BARRICADES MOVED TO ALLOW ACCESS TO THE BRIDGE SITE SHALL BE REPLACED AT THE END OF EACH DAY, WORK SHIFT OR WHEN THE CONTRACTOR IS NOT ACTIVELY WORKING.

SIGN LEGEND:

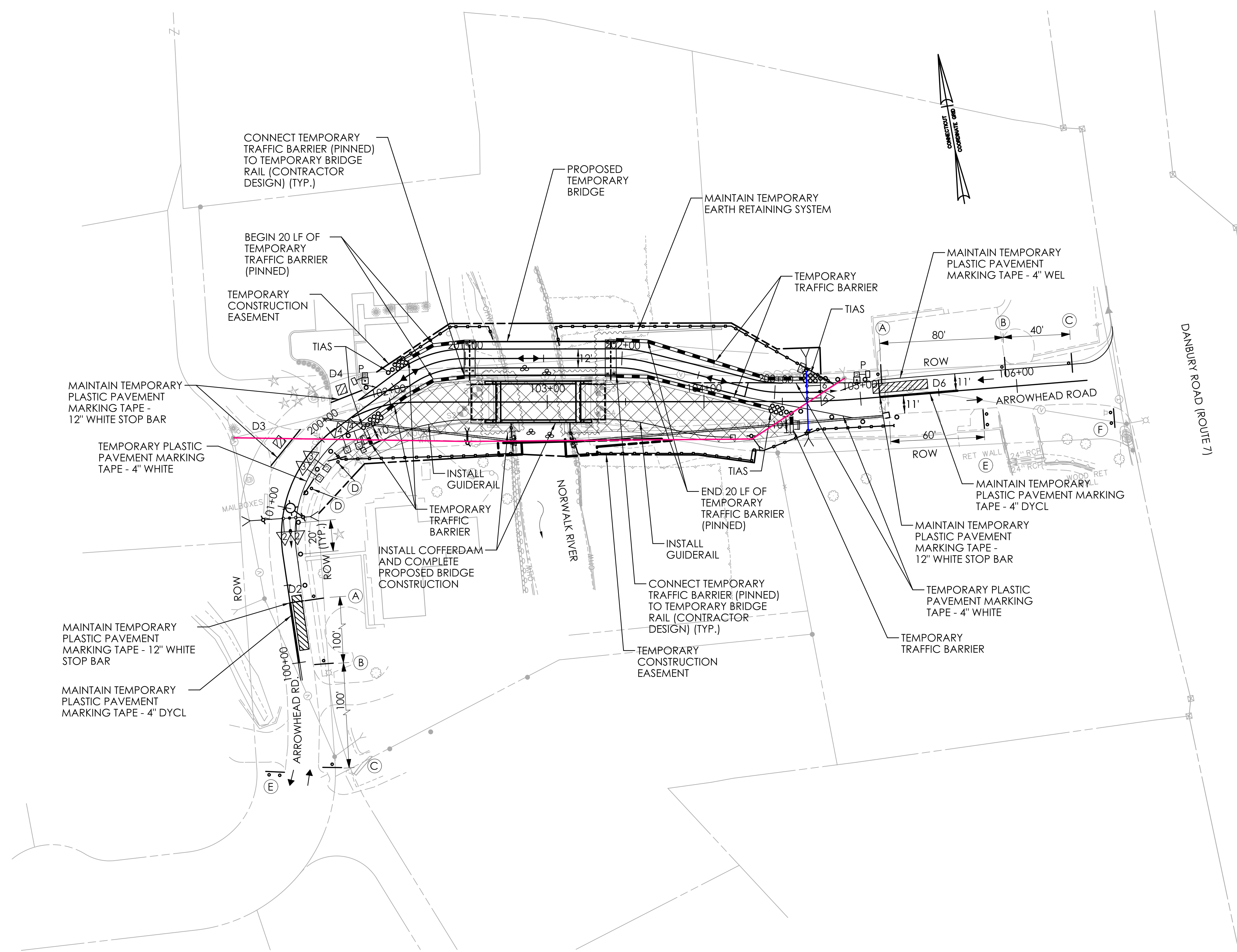
- (A) MAINTAIN SIGN #31-0802 (STOP HERE ON RED)
- (B) MAINTAIN SIGN #80-9052 () *
- (C) MAINTAIN SIGN #80-9834 (ONE LANE ROAD AHEAD) *
- (D) MAINTAIN SIGN #31-0830 (NO TURN ON RED)
- (E) MAINTAIN SIGN #80-9611 (END ROAD WORK)
- (F) MAINTAIN SIGN #80-9928 (ARROWHEAD ROAD ONE LANE ROAD MM/DD TO MM/DD)

LEGEND:

- TEMPORARY TRAFFIC BARRIER. SEE NOTE 2
- WORK AREA
- TRAFFIC FLOW
- INERTIAL SYSTEM (SANDBARRELS) IMPACT VELOCITY ≤ 30 MPH (TIAS)
- TEMPORARY LUMINAIRE AND BRACKET (150 WATT HPS) MOUNTED TO TEMPORARY TRAFFIC SIGNAL SPAN POLE
- TRAFFIC DRUM
- HIGH INTENSITY BARRICADE WARNING LIGHT
- CONSTRUCTION BARRICADE - TYPE III
- SEDIMENT CONTROL SYSTEM
- DETECTION ZONE
- TRAFFIC SIGNAL FACE

PAVEMENT MARKING ABBREVIATIONS:

DYCL - DOUBLE YELLOW CENTER LINE
WEL - WHITE EDGE LINE



REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: RL CHECKED BY: CL

SCALE: 1" = 40'

HORIZONTAL SCALE

SIGNATURE/BLOCK:

V.N. ENGINEERS INC.
Traffic • Infrastructure • Planning

TOWN OF WILTON

PROJECT NUMBER: 0161-0143
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
TOWN(S): WILTON
DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - STAGE 2


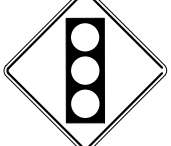


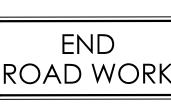
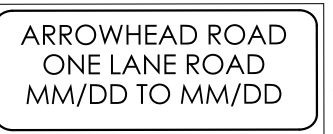
FOR INFORMATION ONLY

DRAWING NO. F10-04
SHEET NO.



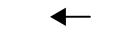





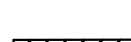
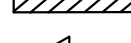
NOTE

1. SEE MPT-01 FOR GENERAL NOTES.

SIGN LEGEND:

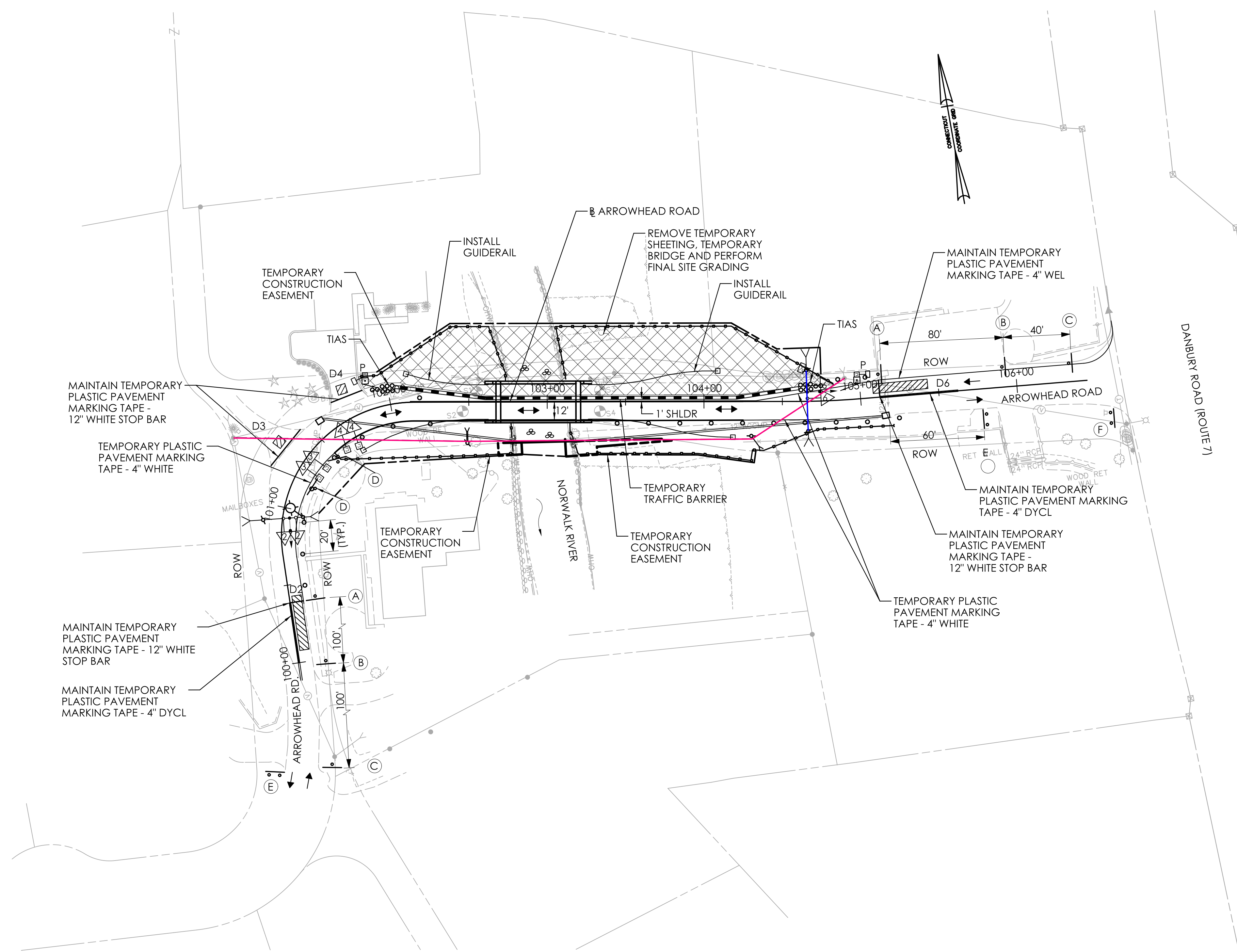
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- (B) MAINTAIN SIGN #80-9052 ( *)
- (C) MAINTAIN SIGN #80-9834 ( *)
- (D) MAINTAIN SIGN #31-0830 ()
- (E) MAINTAIN SIGN #80-9611 ()
- (F) MAINTAIN SIGN #80-9928 ()

LEGEND:

-  TEMPORARY TRAFFIC BARRIER.
-  WORK AREA
-  TRAFFIC FLOW
-  INERTIAL SYSTEM (SANDBARRELS) IMPACT VELOCITY ≤ 30 MPH (TIAS)
-  TEMPORARY LUMINAIRE AND BRACKET (150 WATT HPS) MOUNTED TO TEMPORARY TRAFFIC SIGNAL SPAN POLE
-  TRAFFIC DRUM
-  * HIGH INTENSITY BARRICADE WARNING LIGHT
-  SEDIMENT CONTROL SYSTEM
-  DETECTION ZONE
-  TRAFFIC SIGNAL FACE


PAVEMENT MARKING ABBREVIATIONS:

DYCL - DOUBLE YELLOW CENTER LINE
WEL - WHITE EDGE LINE



REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: RL CHECKED BY: CL
 LASTED SAVED BY: Regina Lopez FILE NAME: I:\Projects\222-103 Wilton 161-143\Traffic\Contract_Plans\TR_CP_161_143_STAGE3.dgn
 PLOTTED DATE: 9/27/2022

SIGNATURE/BLOCK:  VN ENGINEERS INC.
 Traffic • Infrastructure • Planning
 116 WASHINGTON AVENUE
 SUITE 100, WILTON, CT 06497
 203.946.7662

TOWN OF WILTON 

PROJECT NUMBER: 0161-0143
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: MAINTENANCE & PROTECTION OF TRAFFIC - STAGE 3

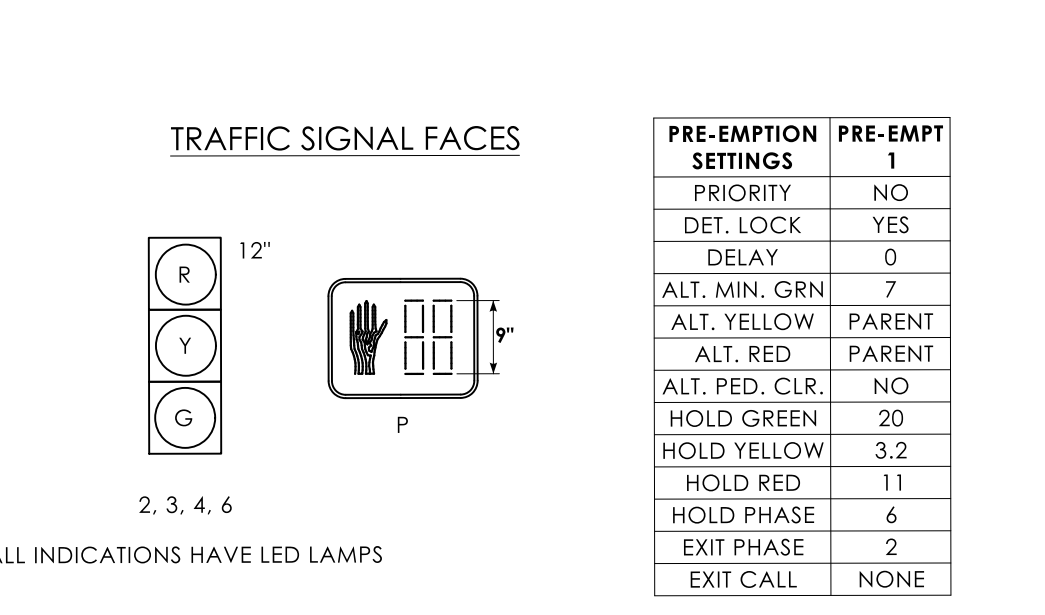
FOR INFORMATION ONLY

DRAWING NO. F10-05
 SHEET NO.

MOVEMENT DIAGRAM																											
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2	R	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL		
3	R				R	Y	R	R	Y	R	R	Y	R	R	Y	R	R	Y	R	R	Y	R	R	Y	R		
4	R				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
6	R				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
P	OFF																										

INTERVALS	MODE	DETECTORS		SYSTEM LOC	COORDINATION TYPE: NONE										
		IDENT	SIZE (WXI)		TYPE	MODE	MASTER	FUNCTION	PROGRAM	DAYS	CYCLE	OFFSET			
MIN GRN		D2	6'x35'	-	PRESENCE		FLASH	NONE							
WALK		D3	6'x6'	-	PRESENCE		MAX 1	ALL TIMES	DAILY						
PED CLR		D4	6'x6'	-	PRESENCE										
VEH EXT		D6	6'x35'	-	PRESENCE										
MAX 1															
MAX 2															
YELLOW															
RED															
ADD INIT															
MAX INIT															
TBR															
TTR															
MIN GAP															
INIT START	OFF														

TECHNICAL NOTES		OFFICE RECORD	
STANDARD OVERLAP SKIP FEATURES APPLY		REV #	TIR # SM # SIGNAL REVISED:
THE TRAFFIC CONTROLLER SHALL BE PROGRAMMED TO REST IN RED WHEN NO SERVICE CALLS ARE PRESENT.			



NOTES:

SEE M&PT NOTES AND LEGEND FOR ADDITIONAL INFORMATION.

SEE M&PT PLANS FOR ADDITIONAL SIGNING REQUIREMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIGNALIZATION AS REQUIRED WITHIN THE PROJECT LIMITS DURING STAGE 1, 2 AND STAGE 3 AS DESCRIBED IN THE SPECIAL PROVISIONS, ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1). THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING SIGNAL EQUIPMENT AND ALL NECESSARY HARDWARE NEEDED THROUGHOUT THE DURATION OF CONSTRUCTION.

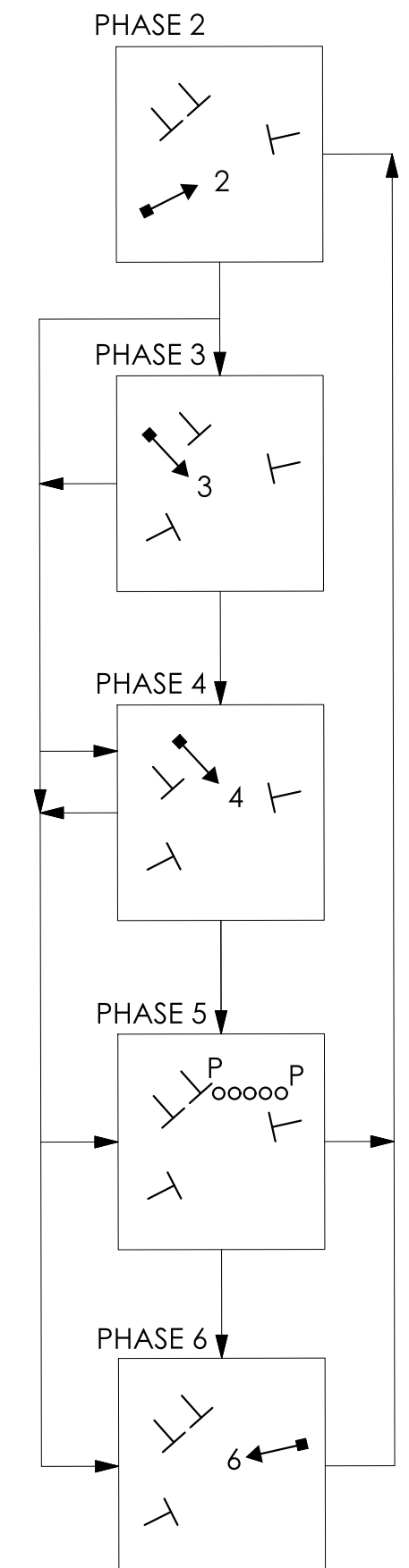
TEMPORARY SIGNAL SHALL NOT RUN ON FIXED TIMES.

CONTRACTOR TO PROVIDE TEMPORARY DETECTION AT THE LOCATION SHOWN ON THE PLAN AND SHALL BE PAID FOR UNDER ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1).

ENSURE THAT A MINIMUM 16' OVERHEAD CLEARANCE FOR THE TRAFFIC SIGNAL HEADS IS MAINTAINED PER THE DEPARTMENT'S TRAFFIC CONTROL MANUAL.

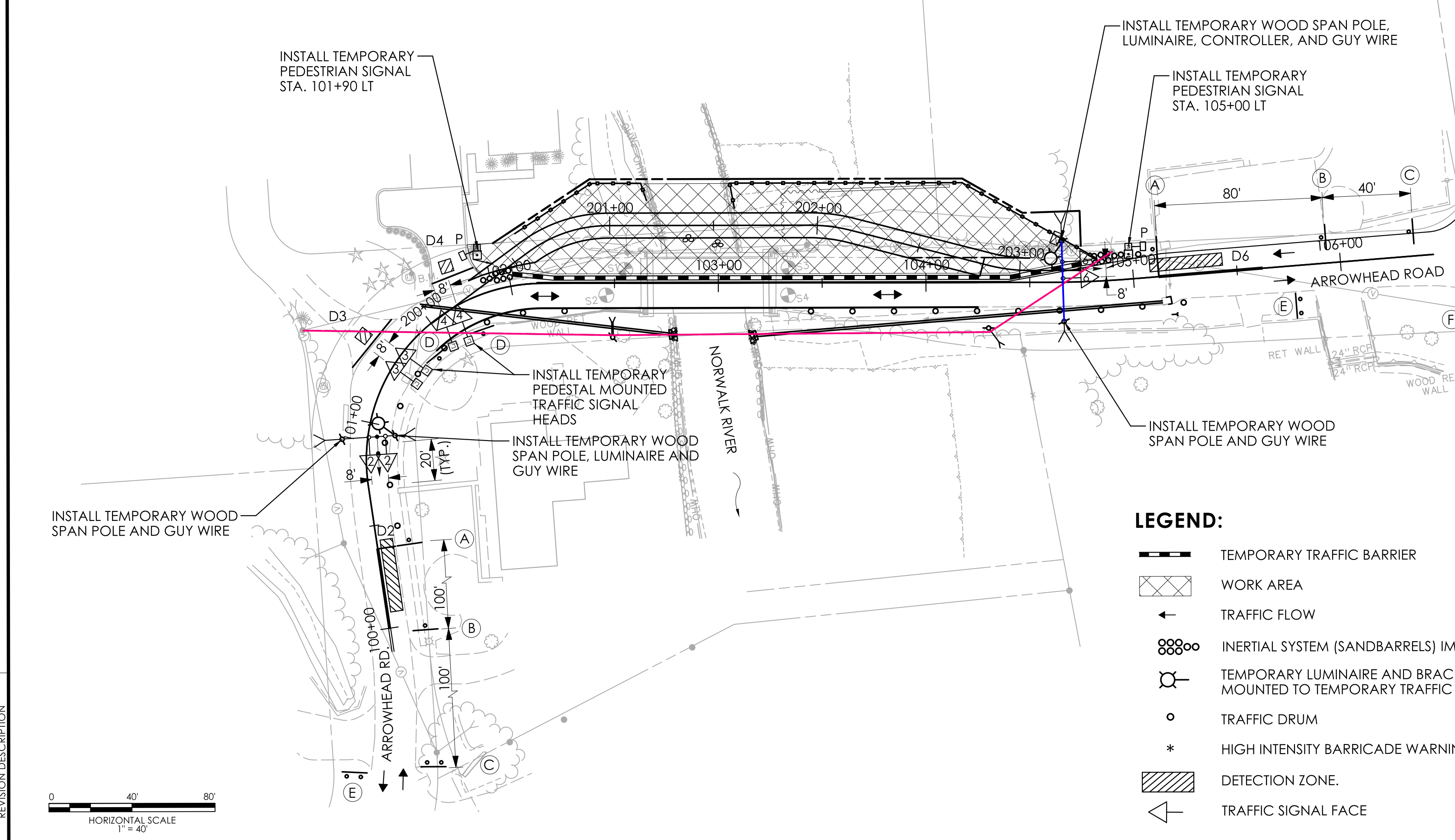
- SIGN LEGEND:**
- (A) MAINTAIN SIGN #31-0802 (STOP HERE ON RED)
 - (B) MAINTAIN SIGN #80-9052 () *
 - (C) MAINTAIN SIGN #80-9834 (ONE LANE ROAD AHEAD) *
 - (D) MAINTAIN SIGN #31-0830 (NO TURN ON RED)
 - (E) MAINTAIN SIGN #80-9611 (END ROAD WORK)
 - (F) MAINTAIN SIGN #80-9928 (ARROWHEAD ROAD ONE LANE ROAD MM/DD TO MM/DD)

- EMERGENCY PRE-EMPTION NOTES:**
- INSTALL AUXILIARY EQUIPMENT CABINET ON WEST SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET. CABINET AND PRE-EMPTION EQUIPMENT TO BE PAID FOR UNDER ITEM NO. 1118051A - TEMPORARY SIGNALIZATION (SITE NO. 1).
 - PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE AUXILIARY EQUIPMENT CABINET.
 - CONTRACTOR TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.



	TRAFFIC	DATE	ELECTRICAL	DATE	REV #	INTERSECTION #
ENGINEER						
DRAWN BY						
CHECKED BY					ENERGY BY CONTRACTOR	ADDRESS #
SUBMITTED BY					MAINT LEVEL	SERVICE POLE
APPROVED BY						METERED SERVICE
APPROVED DATE						

FOR INFORMATION ONLY



- LEGEND:**
- TEMPORARY TRAFFIC BARRIER
 - WORK AREA
 - TRAFFIC FLOW
 - INERTIAL SYSTEM (SANDBARRELS) IMPACT VELOCITY ≤ 30 MPH (TIAS)
 - TEMPORARY LUMINAIRE AND BRACKET (150 WATT HPS) MOUNTED TO TEMPORARY TRAFFIC SIGNAL SPAN POLE
 - TRAFFIC DRUM
 - HIGH INTENSITY BARRICADE WARNING LIGHT
 - DETECTION ZONE
 - TRAFFIC SIGNAL FACE
 - PROPOSED WOOD SPAN POLE
 - EXISTING WOOD SPAN POLE
 - PROPOSED STEEL SPAN POLE
 - EXISTING STEEL SPAN POLE
 - PROPOSED UTILITY POLE
 - EXISTING UTILITY POLE
 - AUXILIARY TERMINATION CABINET
 - AUXILIARY EQUIPMENT CABINET
 - PROPOSED CONTROLLER
 - EXISTING CONTROLLER
 - LOOP DETECTOR
 - SD SYSTEM DETECTOR
 - MAGNETIC DETECTOR
 - OPTICAL DETECTOR
 - VIDEO DETECTOR
 - AUDIO DETECTOR
 - VIDEO CAMERA CABLE
 - CABLE CLOSURE
 - WIRELESS SENSOR
 - WIRELESS RECEIVER
 - WIRELESS TRANSCIVER
 - EXISTING CONTROLLER
 - PROPOSED HANDHOLE
 - EXISTING HANDHOLE

REV	DATE	DESCRIPTION

LEGEND:

- R, Y, G RED, YEL, GRN
- FL. FLASHING
- DET. LEADS IN SAW CUT
- PROPOSED RMC
- EXISTING RMC
- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- AUXILIARY TERMINATION CABINET
- AUXILIARY EQUIPMENT CABINET
- PROPOSED CONTROLLER
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- LOOP DETECTOR
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- AUDIO DETECTOR
- VIDEO CAMERA CABLE
- CABLE CLOSURE
- WIRELESS SENSOR
- WIRELESS RECEIVER
- WIRELESS TRANSCIVER
- EXISTING CONTROLLER
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

LASTED SAVED BY: Regina Lopez FILE NAME: I:\Projects\222-103 Wilton 161-143\Traffic\Contract_Plans\TR_CP_161_143_Temp_Signal_STAGE1.dgn
PLOTTED DATE: 9/27/2022

PROJECT NUMBER: 0161-0143
 REPLACEMENT OF BRIDGE NO. 05501 - ARROWHEAD ROAD OVER NORWALK RIVER
 TOWN(S): WILTON
 DRAWING TITLE: TEMPORARY TRAFFIC SIGNAL CONTROL PLAN - STAGE 1

DRAWING NO. FIO-06
 SHEET NO.