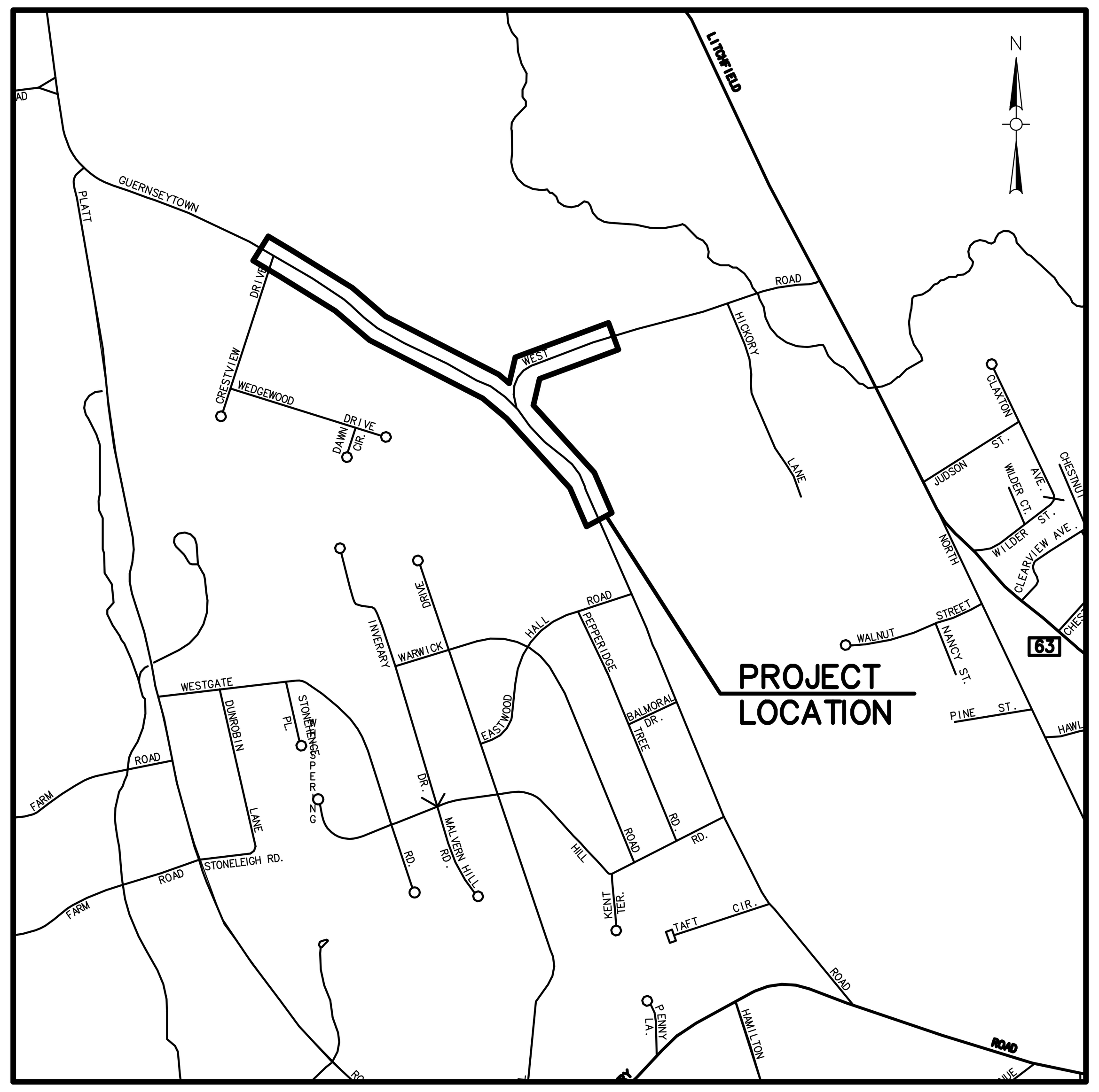


LOCATION PLAN
SCALE: 1"=1000'

TOWN OF WATERTOWN, DEPARTMENT OF PUBLIC WORKS, DIVISION OF ENGINEERING
61 ECHO LAKE ROAD, WATERTOWN CT. 06795 (860) 945-5240
WWW.WATERTOWNCT.ORG

TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

RECONSTRUCTION
OF

GUERNSEYTOWN ROAD

PROJECT NUMBER L153-0003
FROM STA 3+00.00 TO STA 36+68.18
LENGTH 3368.18 FT

DESIGN SCALES:
- PLAN 1IN = 40 FT
- PROFILE HOR. 1 IN = 40 FT VERT. 1 IN = 4 FT
- CROSS SECTION 1 IN = 5 FT

OTHER SCALES AS NOTED

TO BE MAINTAINED BY WATERTOWN

ENGINEERING FOR TOMORROW

TOWN COUNCIL

JONATHAN RAMSAY (CHAIRPERSON)

MARY ANN ROSA (VICE - CHAIRPERSON)

KEN DEMIRS

ROBERT DESENA

ANTHONY DIBONA

DENISE RUSS

ROBERT RETTALICK

GARY J. LAFFERTY

RACHAEL RYAN

Digitally signed
by Alan L. Nafis
Date:
2020.06.04
10:00:29-04'00'

STATE OF CONNECTICUT
ALAN L. NAFIS
No. 12656
LICENSED
PROFESSIONAL ENGINEER

ROADWAY ELEMENTS

ROADWAY: GUERNSEYTOWN ROAD
CLASSIFICATION: URBAN COLLECTOR

VOLUME: 3500 ADT

DESIGN SPEED: 35 MPH
POSTED SPEED: 25 MPH

DESIGN STANDARD: CTDOT FIGURE 5E, URBAN COLLECTOR STREETS (HIGHWAY DESIGN MANUAL 2003 EDITION, INCLUDING REVISIONS TO FEBRUARY 2013)

Weston & Sampson
273 Dividend Road, Rocky Hill, CT 06067
860.513.1473 800.SAMPSON
www.westonandsampson.com

GENERAL NOTES

1. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY AND LIABILITY FOR DAMAGES CAUSED BY HIS OPERATIONS TO PRIVATE PROPERTY. SAID PROPERTY SHALL BE RESTORED OR REPAIRED TO THE ORIGINAL CONDITION OR TO THE ENGINEER'S SATISFACTION.
2. SAFE VEHICULAR ACCESS SHALL BE PROVIDED TO ALL BUILDINGS AND RESIDENCES AT THE END OF EACH WORKING DAY.
3. ALL ELEVATIONS ON THIS PROJECT ARE BASED ON USGS DATUM NAVD 88
4. SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 817 (2016), SUPPLEMENTAL SPECIFICATION DATED (JULY 2019) AND SPECIAL PROVISIONS.

LIST OF DRAWINGS

TOWN OF WATERTOWN

TOWN MANAGER
MARK RAIMO

DIRECTOR OF PUBLIC WORKS
GERALD LUKOWSKI

TOWN ENGINEER
PAUL BUNEVICH

PLANS APPROVED BY: Ray C Cavanaugh

COPY NO. ______

FILE NO. FILENUMBER

ITEM NUMBER	0201001A	0202000	0202100	0202200	0202250	0202529	0203205	0203305	0204151A	0207000	0209001	0213100	0216000	0219001	0219002	0219011A	0286001.1A	0304002	0406002	0406171	0406172	0406236	0406999	0503866A
ITEM	CLEARING AND GRUBBING	EARTH EXCAVATION	ROCK EXCAVATION	CHANNEL EXCAVATION – EARTH	CHANNEL EXCAVATION – ROCK	CUT BITUMINOUS CONCRETE PAVEMENT	STRUCTURE EXCAVATION – EARTH (EXCLUDING HANDLING WATER)	STRUCTURE EXCAVATION – ROCK (EXCLUDING HANDLING WATER)	HANDLING WATER	BORROW	FORMATION OF SUBGRADE	GRANULAR FILL	PERVIOUS STRUCTURE BACKFILL	SEDIMENTATION CONTROL SYSTEM	SEDIMENTATION CONTROL HAY BALE SYSTEM	SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN	ROCK IN DRAINAGE TRENCH EXCAVATION–0–10' DEEP	PROCESSED AGGREGATE BASE	TEMPORARY PAVEMENT	HMA S0.5	HMA S0.375	MATERIAL FOR TACK COAT	ASPHALT ADJUSTMENT COST	REMOVAL OF EXISTING CULVERT (SITE NO. 1)
UNIT	L.S.	C.Y.	C.Y.	C.Y.	C.Y.	L.F.	C.Y.	C.Y.	L.S.	C.Y.	S.Y.	C.Y.	C.Y.	L.F.	L.F.	L.F.	C.Y.	C.Y.	S.Y.	TON	TON	GAL.	EST.	L.S.
GUERNSEYTOWN RD		9532	3337	650	75	91	691	36	1	25	12890	38	310	3945	150	38	449	4297	800	2791	1320	1148		1
WEST RD		925	122			24				25	1850	2		1030	0	1		617	0	410	200	171		
SUBTOTAL	1	10457	3459	650	75	115	700	36	1	50	14740	40	310	4975	150	39	449	4914	800	3201	1520	1319	1	1
UNASSIGNED																								
TOTAL	1	10457	3459	650	75	115	700	36	1	50	14740	40	310	4975	150	39	449	4914	800	3201	1520	1319	1	1

ITEM NUMBER	0586001.1	0586002.1	0586003.1	0586005.1	0586040.1	0586040.2	0586086	0586650	0586750	0586760	0586790.1	0586850.1A	0601000	0601219A	0601220A	0602006	0686000.15	0686000.18	0686000.24	0686230.12A	0686230.15A	0686230.18A	0686230.24A	0686250.6A	0686700.15
ITEM	TYPE "C" CATCH BASIN – 0'–10' DEEP	TYPE "C" CATCH BASIN (4" SUMP) – 0'–10' DEEP	TYPE "C" CATCH BASIN DOUBLE GRATE –TYPE I – 0'–10' DEEP	TYPE "C" CATCH BASIN DOUBLE GRATE –TYPE II 0'–10' DEEP	TYPE "C–L" CATCH BASIN (4" SUMP) – 0'–10' DEEP	TYPE "C–L" CATCH BASIN (4" SUMP) – 0'–20' DEEP	ABANDON DRAINAGE STRUCTURE	RESET MANHOLE	TYPE "C" CATCH BASIN TOP	TYPE "C–L" CATCH BASIN TOP	REMOVE DRAINAGE STRUCTURE – 0'–10' DEEP	HYDRODYNAMIC SEPARATOR	CLASS 'A' CONCRETE	4' X 2' PRECAST CONCRETE BOX CULVERT	4' X 2' R.C. CULVERT END	DEFORMED STEEL BARS – GALVANIZED	15" REINFORCED CONCRETE PIPE – 0'–10' DEEP	18" REINFORCED CONCRETE PIPE – 0' – 10' DEEP	24" REINFORCED CONCRETE PIPE – 0' – 10' DEEP	12" HIGH DENSITY POLYETHYLENE PIPE – 0' – 10' DEEP	15" HIGH DENSITY POLYETHYLENE PIPE – 0' – 10' DEEP	18" HIGH DENSITY POLYETHYLENE PIPE – 0' – 10' DEEP	24" HIGH DENSITY POLYETHYLENE PIPE – 0' – 10' DEEP	6" HIGH DENSITY POLYETHYLENE PIPE – (SMOOTHER INTERIOR) 0' – 10' DEEP	15" REINFORCED CONCRETE DRAINAGE PIPE END
UNIT	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	C.Y.	L.F.	EA.	LB.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.
GUERNSEYTOWN RD	22	3	2	6	1	1	8	1	1	0	7	1	82	80	2	12000	2	18	4	31	1847	689	131	100	1
WEST RD	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	38	81	0	0	0	0	0	0	1
SUBTOTAL	22	3	2	6	2	1	8	1	1	1	7	1	82	80	2	12000	40	99	4	31	1847	689	131	100	2
UNASSIGNED																									
TOTAL	22	3	2	6	2	1	8	1	1	1	7	1	82	80	2	12000	40	99	4	31	1847	689	131	100	2

ITEM NUMBER	0686700.18	0686950.1	0703011	0703012	0707009A	0708001	0728031	0755009	0815001	0822001	0822002	0910322	0910300	0911923	0911924	0913013	0921001	0922500	0922501	0922503A	0939001	0942001
ITEM	18" REINFORCED CONCRETE DRAINAGE PIPE END	REMOVE EXISTING PIPE – 0' – 10' DEEP	INTERMEDIATE RIPRAP	MODIFIED RIPRAP	MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)	DAMPPROOFING	NO. 4 CRUSHED STONE	GEOTEXTILE	BITUMINOUS CONCRETE LIP CURBING	TEMPORARY PRECAST CONCRETE BARRIER CURB	RELOCATED TEMPORARY PRECAST CONCRETE BARRIER CURB	METAL BEAM RAIL SPAN SECTION TYPE II	METAL BEAM RAIL (TYPE R–B MASH)	R–B END ANCHORAGE –TYPE I	R–B END ANCHORAGE –TYPE II	5' POLYVINYL CHLORIDE CHAIN LINK FENCE	CONCRETE SIDEWALK	BITUMINOUS CONCRETE DRIVEWAY (COMMERCIAL)	BITUMINOUS CONCRETE DRIVEWAY	GRAVEL DRIVEWAY	SWEEPING FOR DUST CONTROL	CALCIUM CHLORIDE FOR DUST CONTROL
UNIT	EA.	L.F.	C.Y.	C.Y.	S.Y.	S.Y.	C.F.	S.Y.	L.F.	L.F.	L.F.	EA.	L.F.	EA.	EA.	L.F.	S.Y.	S.Y.	S.Y.	S.Y.	HR.	TON
	3	2038	56	40	69	62	2058	730	6387	910	3190	3	1500	4	2	86	15	160	330	210	266	6
	0	0	0	1	0	0	0	10	741	0	0	0	413	2	0				70		54	1
SUBTOTAL	3	2083	56	41	69	62	2058	740	7128	910	3190	3	1913	6	2	86	15	160	400	210	320	7
UNASSIGNED																						
TOTAL	3	2083	56	41	69	62	2058	740	7128	910	3190	3	1913	6	2	86	15	160	400	210	320	7

ITEM NUMBER	0943001	0944000	0950005	0950033	0969060A	0970006	0971001A	0975004	0976002	0977001	0977002	0979003	0980001	1206013	1208931	1210101	1210102	1210105	1210105	1300102A	1803300
ITEM	WATER FOR DUST CONTROL	FURNISHING AND PLACING TOPSOIL	TURF ESTABLISHMENT	EROSION CONTROL MATTING TYPE H	CONSTRUCTION FIELD OFFICE, SMALL	TRAFFICPERSON (MUNICIPAL POLICE OFFICER)(EST COST)	MAINTENANCE AND PROTECTION OF TRAFFIC	MOBILIZATION AND PROJECT CLOSEOUT	BARRICADE WARNING LIGHTS–HIGH INTENSITY	TRAFFIC CONE	TRAFFIC DRUM	CONSTRUCTION BARRICADE TYPE III	CONSTRUCTION STAKING	REMOVAL OF EXISTING SIGNING	SIGN FACE – SHEET ALUMINUM TYPE IX RETROREFLECTIVE SHEETING	4" WHITE EPOXY RESIN PAVEMENT MARKINGS	4" YELLOW EPOXY RESIN PAVEMENT MARKING	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS, LEGENDS	CONSTRUCTION SIGNS	8" DUCTILE IRON PIPE (WATER MAIN)	IMPACT ATTENUATION SYSTEM (TANGENTIAL)
UNIT	MGAL.	S.Y.	S.Y.	S.Y.	MONTH	EST.	L.S.	L.S.	DAY	EA.	EA.	EA.	L.S.	L.S.	S.F.	L.F.	L.F.	S.F.	S.F.	L.F.	EA.
	804	9585	9585	1113					30	20	20	4			16.19	6590	6430	19	423.75	1010	2
	120	1000	1000	160						20	20				22.44		1304	14			
SUBTOTAL	924	10585	10585	1273	12	1	1	1	30	40	40	4	1	1	38.63	6590	7734	33	423.75	1010	2
UNASSIGNED																					
TOTAL	924	10585	10585	1273	12	1	1	1	30	40	40	4	1	1	38.63	6590	7734	33	423.75	1010	2

NO.	REVISIONS	BY	DATE

DES BY: LEC
DRN BY: LEC
CHK BY: LAS
APPD BY: ALN

DATE: JULY 2019
SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

Weston & Sampson
273 Dividend Road, Rocky Hill, CT 06067
860.513.1473 800.SAMPSON
www.westonandsampson.com

TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE:
DETAILED ESTIMATE SHEET

PROJECT NO. L153–0003
FILE NO.
DRAWING NO. EST–1
SHEET NO. 1

GENERAL:

1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSIONS OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
3. THE CONTRACTOR SHALL PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
4. FENCES, MAIL BOXES, SIGNS, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCLUDED IN THE COST OF CLEARING AND GRUBBING.
5. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE TOWN. PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
6. THE CONTRACTOR SHALL MAINTAIN SIDE SLOPES AND DRAINAGE SWALES DURING CONSTRUCTION TO PREVENT PONDING AND EROSION.
7. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
8. THE CONTRACTOR SHALL GRADE PROPOSED SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS, IN ACCORDANCE WITH THE MINIMUM AND MAXIMUM SLOPES SPECIFIED.
9. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING. COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE ENGINEER.
10. WHERE ENCOUNTERED, UNSUITABLE MATERIAL SHALL BE REMOVED TO A DEPTH OF AT LEAST 12-INCHES BELOW THE BOTTOM OF TRENCH EXCAVATIONS AND REPLACED WITH GRANULAR FILL, UNLESS OTHERWISE SPECIFIED.
11. DURING THE PROCESS OF WORK, THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE AREA OF CONSTRUCTION ACTIVITIES, INCLUDING SWEEPING AND SPRINKLING OF STREETS AS NECESSARY, TO MINIMIZE CREATION AND DISPERSION OF DUST.
12. WHERE EXISTING FENCES ARE TO BE REMOVED AND RESET, A TEMPORARY CONSTRUCTION FENCE SHALL BE ERECTED AFTER REMOVAL FOR THE PROTECTION OF THE RESIDENTS. TEMPORARY CONSTRUCTION FENCES SHALL BE INCLUDED IN THE COST OF CLEARING AND GRUBBING.
13. ALL HIGHWAY LINE MONUMENTATION WITHIN THE PROJECT LIMITS MUST BE DELINEATED AND PROTECTED FROM DAMAGE OR MOVEMENT. ANY COST ASSOCIATED WITH RESETTING OF THE MONUMENTATION SHALL BE AT THE CONTRACTOR'S EXPENSE.
14. THE CONTRACTOR SHALL COMPLETE ALL LAYOUTS, SURVEYS, ETC. REQUIRED FOR CONSTRUCTION OF THE PROJECT AS SHOWN AND AS SPECIFIED.
15. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE PROPER STORM DRAINAGE AND SANITARY FLOWS ARE MAINTAINED THROUGHOUT CONSTRUCTION.
16. ALL PROPOSED MANHOLES, MANHOLE COVERS AND FRAMES, CATCH BASINS, AND CATCH BASIN GRATES AND FRAMES SHALL CONFORM TO THE REQUIREMENTS OF THE TOWN OF WATERTOWN.
17. REMOVAL OF ALL TREES WITHIN THE EXCAVATION LINES SHALL BE PAID FOR BY CLEARING AND GRUBBING.
18. ALL GUIDE RAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS, AND STANDARD DETAILS.
19. ALL DRAINAGE STRUCTURES TO BE ABANDONED SHALL BE REMOVED TO A DEPTH 2 FT BELOW SUBGRADE IN AREAS WITHIN PAVEMENT LIMITS. IN ALL OTHER AREAS, CATCH BASINS SHALL BE REMOVED TO A DEPTH 2' BELOW FINISHED GRADE. THE FLOOR OF ALL ABANDONED DRAINAGE STRUCTURES SHALL BE BROKEN, AND ALL PIPES SHALL BE PLUGGED WITH CEMENT MASONRY IF PIPES ARE TO REMAIN.

WORK RESTRICTIONS:

1. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.
2. ALL CONSTRUCTION ACTIVITIES, INCLUDING THE LOADING AND UNLOADING OF MATERIALS AND EQUIPMENT, SHALL BE LIMITED TO MONDAY THROUGH FRIDAY FROM 7:00 AM TO 6:00 PM.
3. NO WORK WILL BE ALLOWED BETWEEN THE HOURS OF 6:00 PM AND 7:00 AM WITHOUT ADVANCED AUTHORIZATION FROM THE TOWN.

REGULATORY REQUIREMENTS:

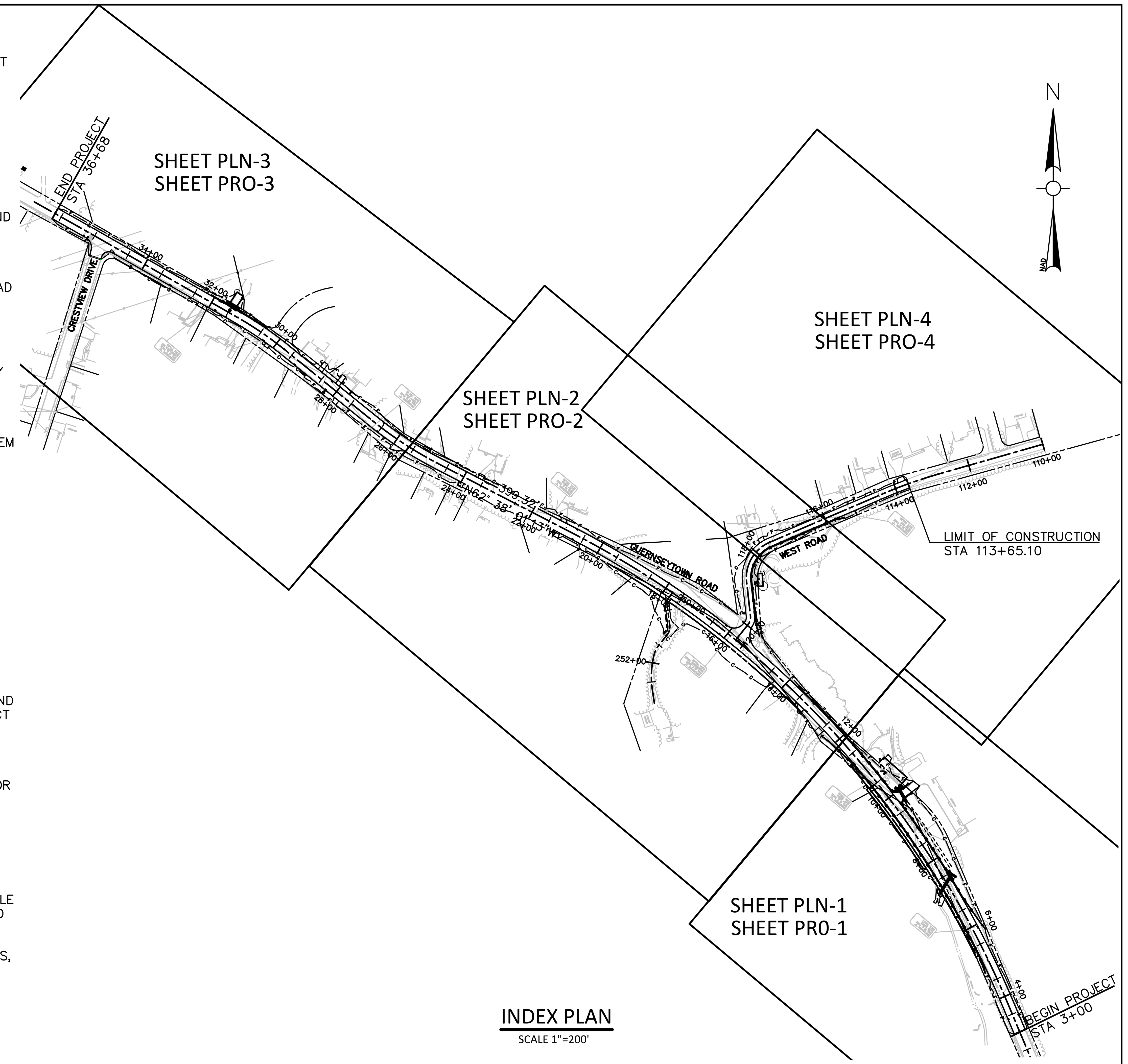
1. WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.
2. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
3. BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY, PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
4. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND LOCAL REQUIREMENTS.

EROSION AND SEDIMENT CONTROL:

1. SEDIMENTATION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO COMMENCING ANY WORK.
2. CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT EDITION OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (CT DEEP BULLETIN 34). ALL MEASURES SHALL BE MAINTAINED AND UPGRADED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.
3. REFER TO THE DRAWINGS FOR EROSION AND SEDIMENT CONTROL LOCATIONS.
4. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM THE SITE, PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEAN-UP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
5. EXISTING DRAINAGE STRUCTURES AND PIPES ARE TO BE CLEANED AND FLUSHED WHERE INDICATED ON THE PLANS AND SHALL BE PAID FOR BY CLEAN EXISTING DRAINAGE SYSTEM.
6. INSPECT AND MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER MAJOR RAINFALL EVENTS, DISPOSE OF SEDIMENT IN AN UPLOAD AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
7. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES, CLEAN SEDIMENT AND DEBRIS LEFT BY TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.
8. THE CONTRACTOR SHALL INSTALL THE SPECIFIED EROSION CONTROL DEVICES BEFORE BEGINNING OTHER WORK ON SITE AND MAINTAIN THEM FOR THE DURATION OF THE PROJECT.
9. THE CONTRACTOR SHALL PROVIDE INLET PROTECTION AS SHOWN IN THE DETAILS ON THE EXISTING AND PROPOSED CATCH BASINS THROUGHOUT THE DURATION OF THE PROJECT.
10. "PAVEMENT FOR RAILING" REQUIRED AT ALL GUIDERAIL, SEE DETAIL SHEET HW-925_01.

UTILITIES:

1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 AND THE TOWN AT LEAST 72 HOURS SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE CBYD PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
2. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
3. TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER. IF SUCH TEST PITS ARE ORDERED THEY WILL BE PAID FOR WITH BID ITEM 0202452A "TEST PIT".
4. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
5. THE CONTRACTOR SHALL COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING OF FRAMES, GRATES, GATES, VALVE BOXES ETC., WHICH SHALL BE DONE IN ACCORDANCE WITH INDIVIDUAL UTILITY COMPANY REQUIREMENTS.
7. EXISTING STRUCTURES SHALL BE CORED PRIOR TO INSTALLING PIPE.



INDEX PLAN

SCALE 1"=200'

LEGEND

DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	8" PVC SAN.	8" PVC SAN.	FENCE	x x	x x
WATER MAIN	W	W	INDIVIDUAL DECIDUOUS TREE		
STORM DRAIN	D		INDIVIDUAL EVERGREEN TREE		
ELECTRIC	E	E	TREE LINE		
TELEPHONE	T	T	BUSH		
WATER SERVICE	WS	WS	STUMP		
STORM DRAIN MANHOLE		DMH	SURVEY MARKER		
CATCH BASIN			PROPERTY LINE		
HYDRANT			EASEMENT LINE		
GATE VALVE	WV		SPOT ELEVATIONS	× 100.2	×101.5
CURB STOP			CONTOUR LINES	56	56
REDUCER			DEPRESSION CONTOUR LINES		
CAP OR PLUG			HOUSE NUMBER	#35	
UTILITY POLE			FLOOR ELEVATION	FL=56.7	
GUY POLE			SILL ELEVATION	S=56.7	
GUY WIRE			WETLAND		
OVERHEAD WIRE	//	//	WETLAND FLAGS	WF#	
LIGHT POST			GRASS PAVERS		
EDGE OF PAVEMENT			GUIDE RAIL		MBR
EDGE OF UNPAVED ROAD			POST		
CURB			SIGN		
BERM			BENCH MARK		
SIDEWALK	CONC. WALK	CONC. WALK	TEST PIT	TP 1	TP-1
BOULDER			BORING	B-1	
STONE WALL			DRAINAGE DITCH / SWALE		
RETAINING WALL	RET WALL	RET WALL	MAILBOX		
FENCE	x				

ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

SURVEY NOTES:

1. BASE PLAN RIGHT OF WAY AND PROPERTY LINES SHOWN WERE FROM PLANS OF RECORD AUGMENTED BY FIELD SURVEY. THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY BONGIOVANNI GROUP, INC.
2. BASE PLAN HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THOUGH 20-300b-20 AND "THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS PREPARED AND ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
3. THE BASE SURVEY CONFORMS TO THE FOLLOWING CLASSES OF ACCURACY:

STREET RIGHT OF WAY	A-2
TOPOGRAPHY WITHIN THE PAVED ROADWAY	T-2

4. THE HORIZONTAL DATUM IS THE NORTH AMERICAN DATUM OF 1983 (NAD 1983 (2011) EPOCH 2010.0).
5. THE VERTICAL DATUM IS THE NORTH AMERICAN DATUM OF 1988 (NAVD 88).

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE	LF	LINEAR FEET
BC	BITUMINOUS CONCRETE, BOTTOM OF CURB	LS	LUMP SUM
BIT	BITUMINOUS	MAX	MAXIMUM
BLDG	BUILDING	MB	MAIL BOX
BM	BENCH MARK	MECH	MECHANICAL
CATV	CABLE TELEVISION	MH	MANHOLE
CB	CATCH BASIN	MIN	MINIMUM
CC	CONCRETE CURB	MISC	MISCELLANEOUS
CI	CAST IRON	N	NORTH
℄	CENTERLINE	NF	NOT FOUND
CMP	CORRUGATED METAL PIPE	NO OR #	NUMBER
CONC	CONCRETE	PE	POLYETHYLENE
CP	CONTROL POINT	ℙ	PROPERTY LINE
CU FT	CUBIC FEET	PVC	POLYVINYL CHLORIDE
CY	CUBIC YARD	PR	PROPOSED
DI	DROP INLET, DUCTILE IRON	PVMT	PAVEMENT
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DMH	DRAIN MANHOLE	ROW	RIGHT-OF-WAY
E	ELECTRIC, EAST	S	SEWER, SOUTH
EA	EACH	SF	SQUARE FEET
EL	ELEVATION	SPEC	SPECIFICATIONS
EOP	EDGE OF PAVEMENT	SQ FT	SQUARE FEET
EW	EACH WAY	SS	SEWER SERVICE
EX	EXISTING	STA	STATION
FT	FEET, FOOT	SW	SIDEWALK
G	NATURAL GAS	T	TELEPHONE
GALV	GALVANIZED	TBM	TEMPORARY BENCH MARK
GC	GRANITE CURB	TC	TOP OF CURB
H	HIGH	TYP	TYPICAL
HC	HOUSE CONNECTION	UP	UTILITY POLE
HORZ	HORIZONTAL	VC	VITRIFIED CLAY
HP	HIGH PRESSURE	VERT	VERTICAL
HYD	FIRE HYDRANT	W	WATER, WEST, WIDE
INV	INVERT		
ID	INSIDE DIAMETER		
IP	IRON PIPE		

NO.	REVISIONS	BY	DATE

DES BY: LEC
DRN BY: LEC
CHK BY: LAS
APPD BY: ALN

DATE: JULY 2019

SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

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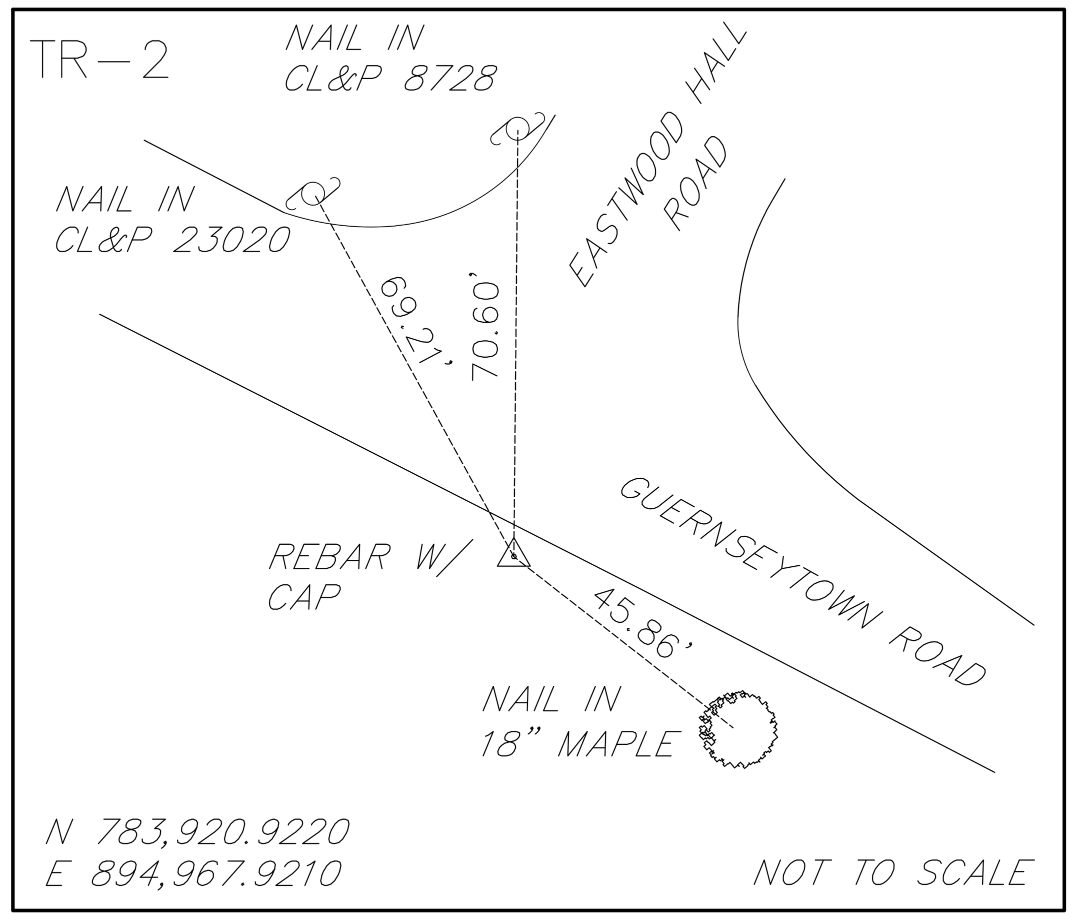
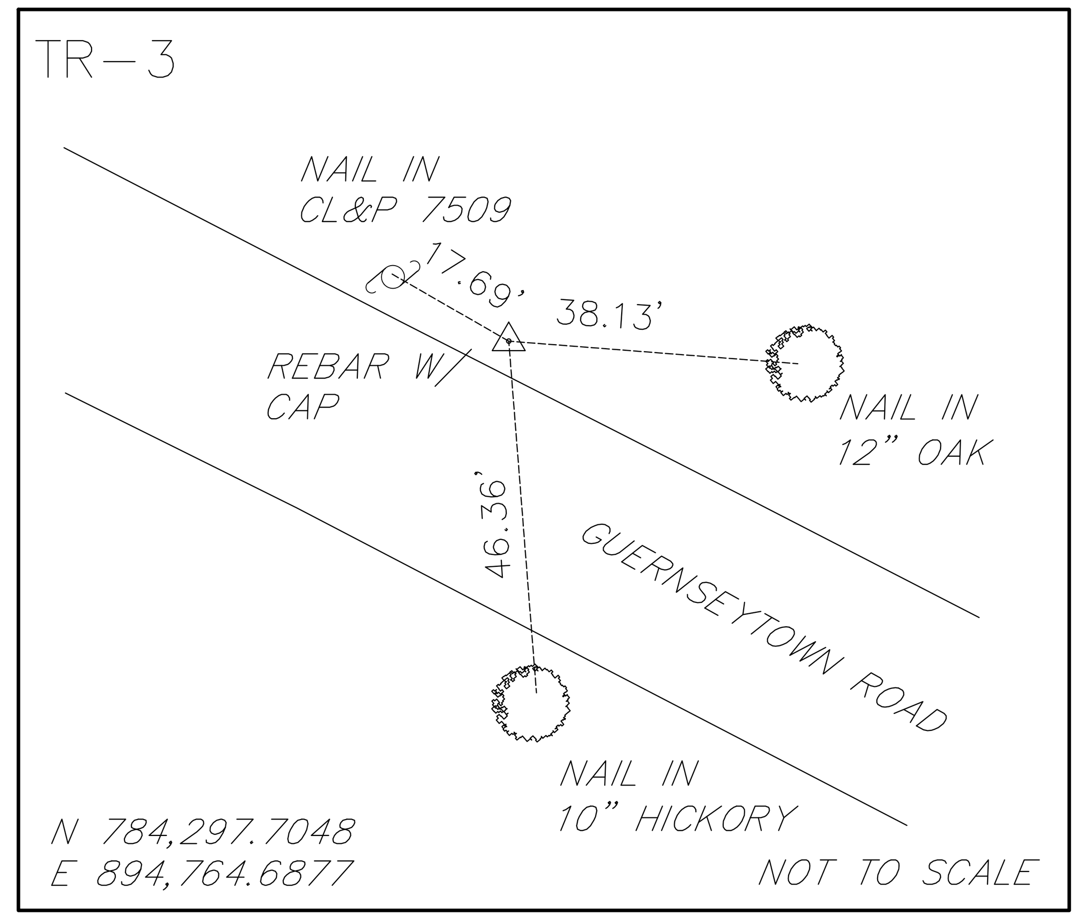
TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

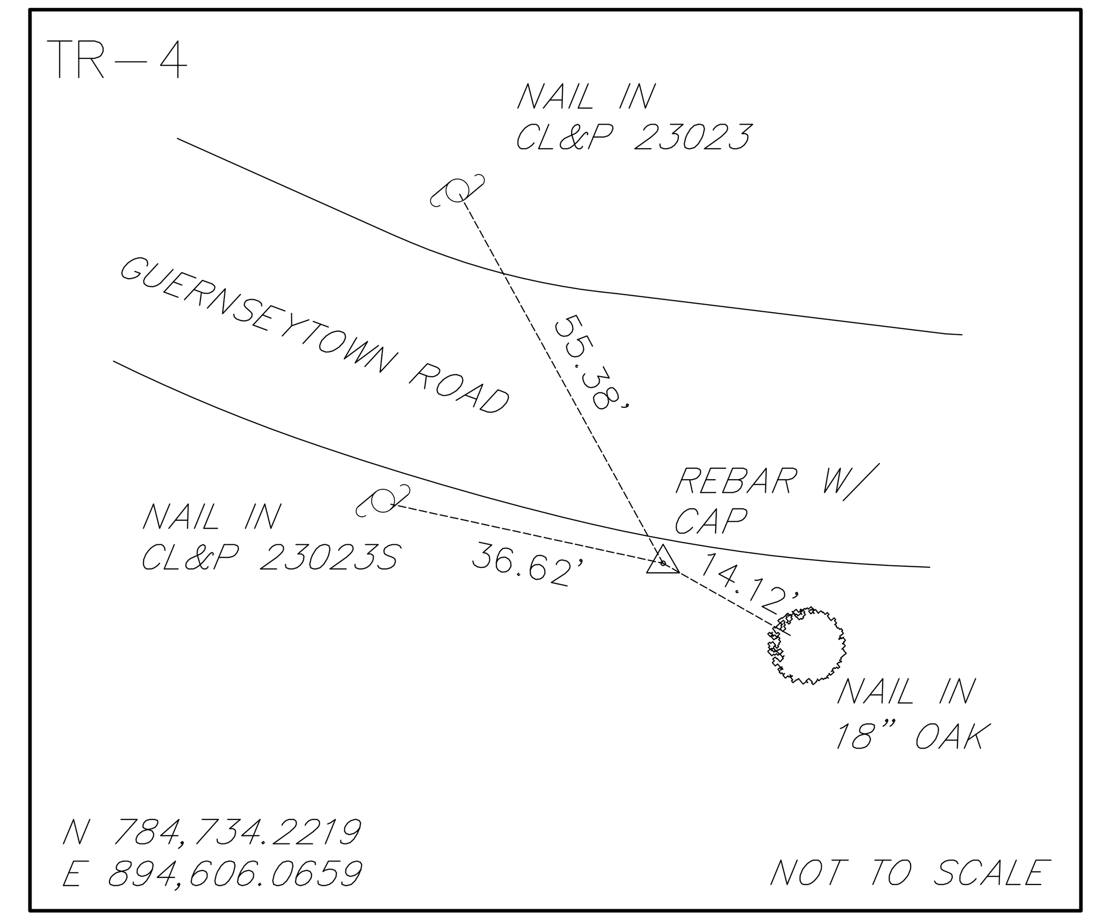
PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE: GENERAL NOTES, LEGEND, AND INDEX PLAN

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. GEN-1
SHEET NO. 2







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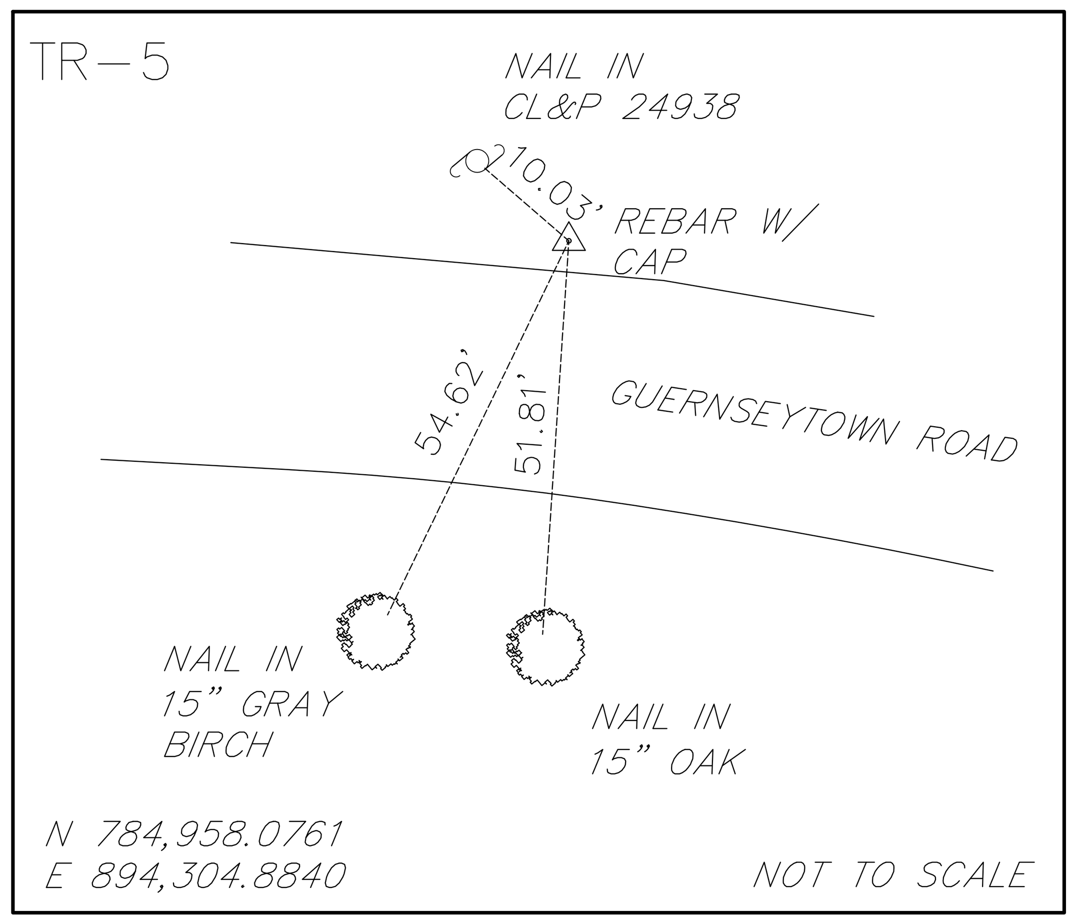

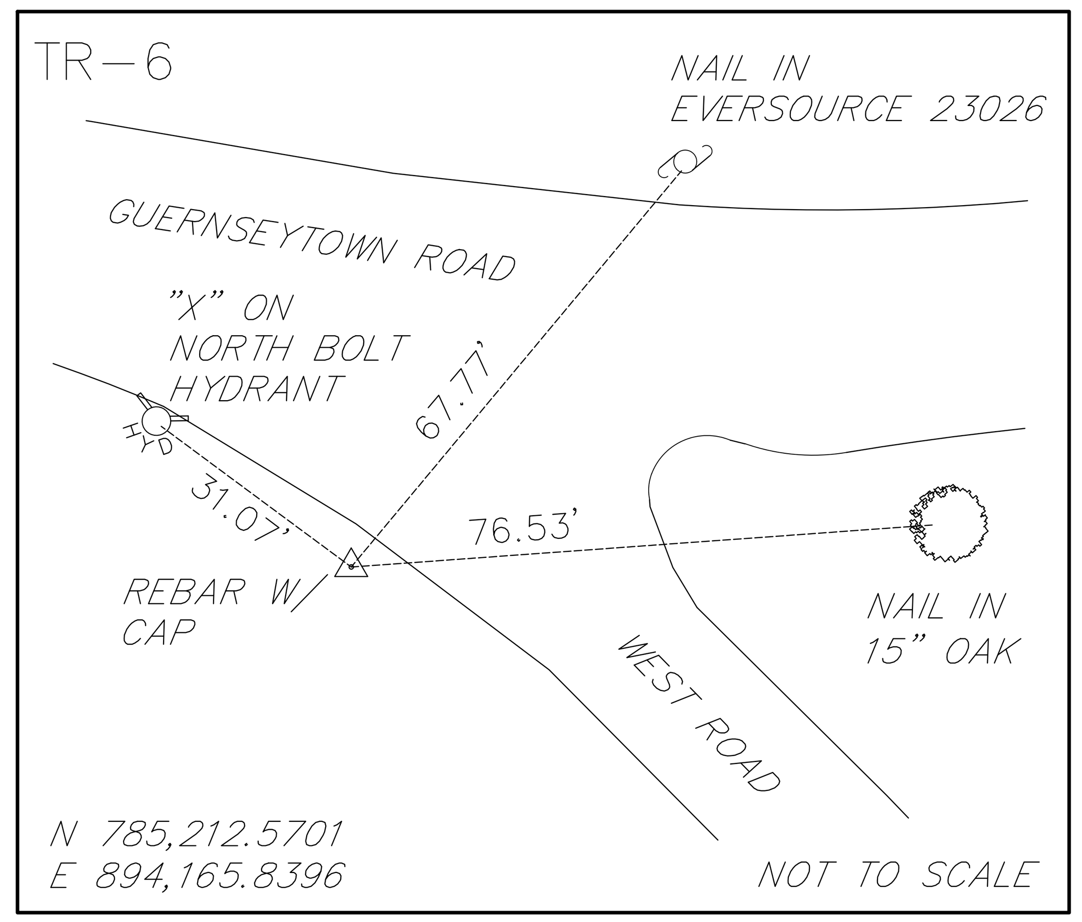

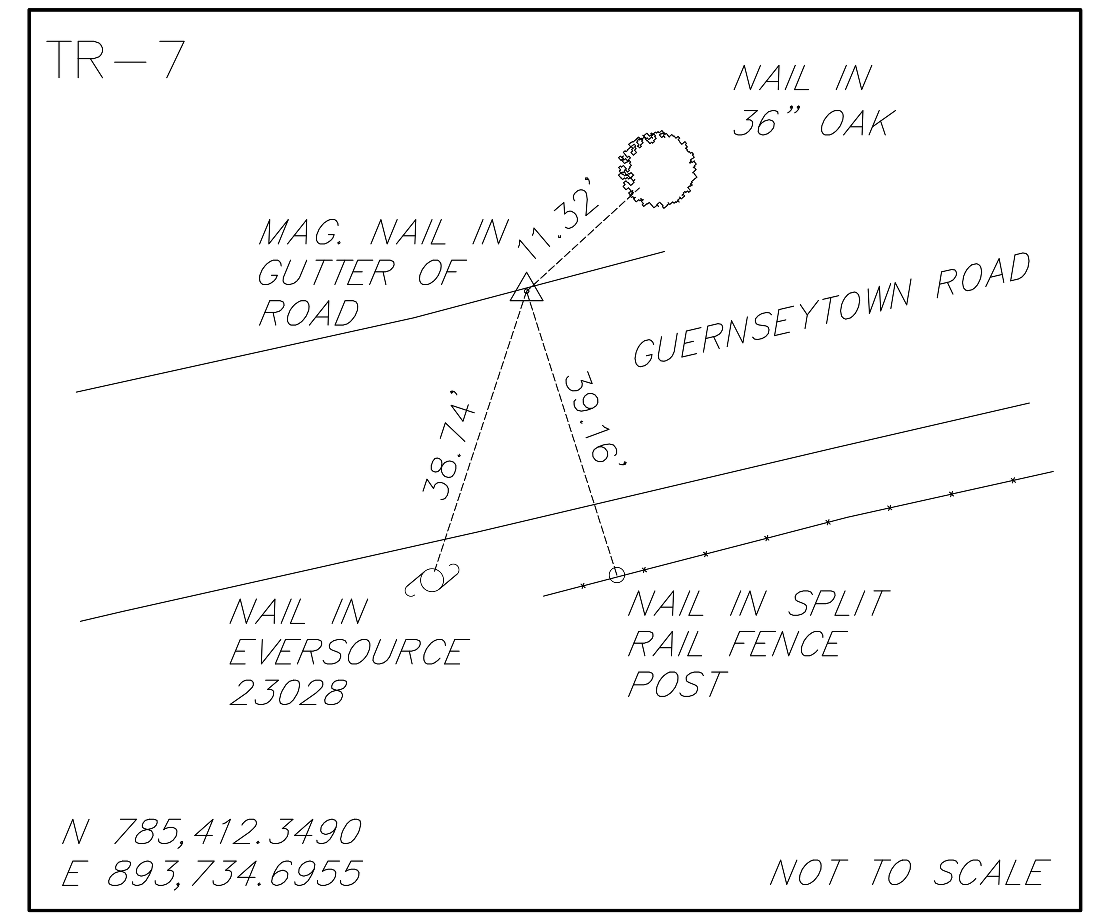

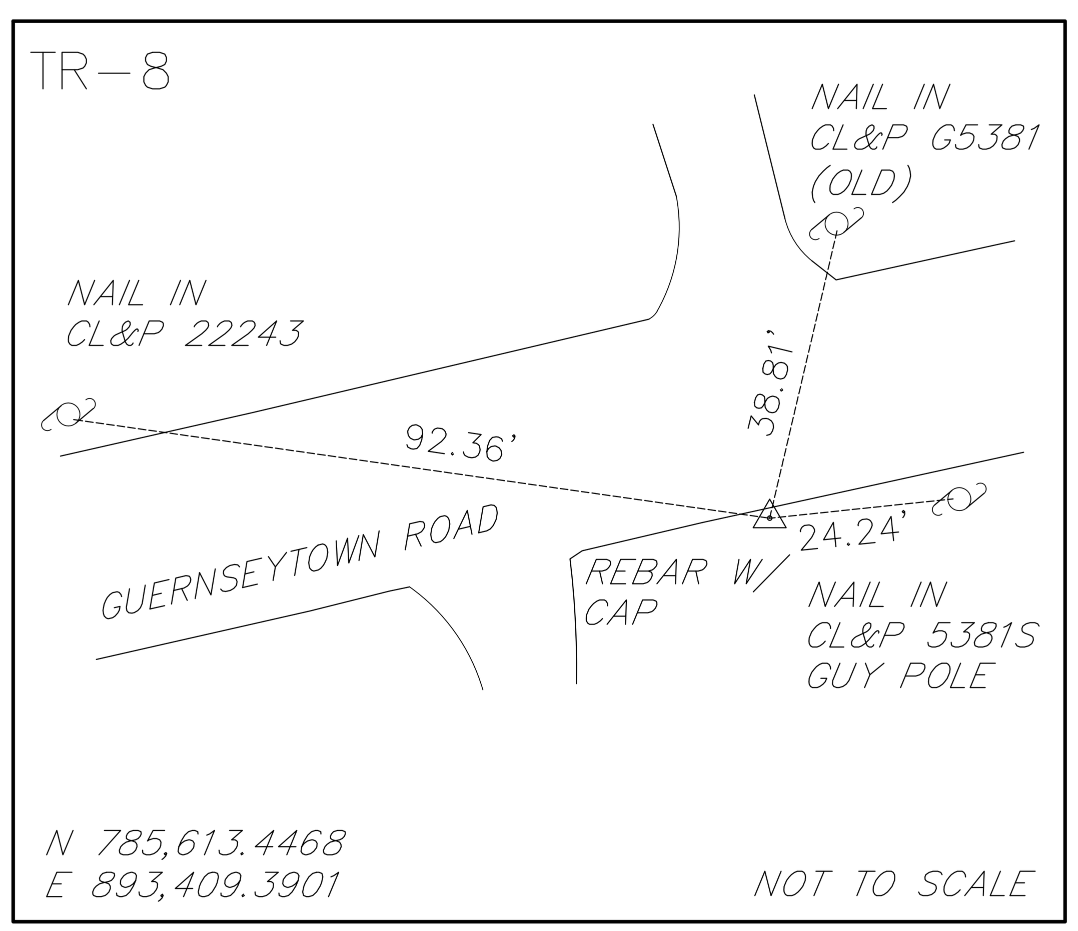

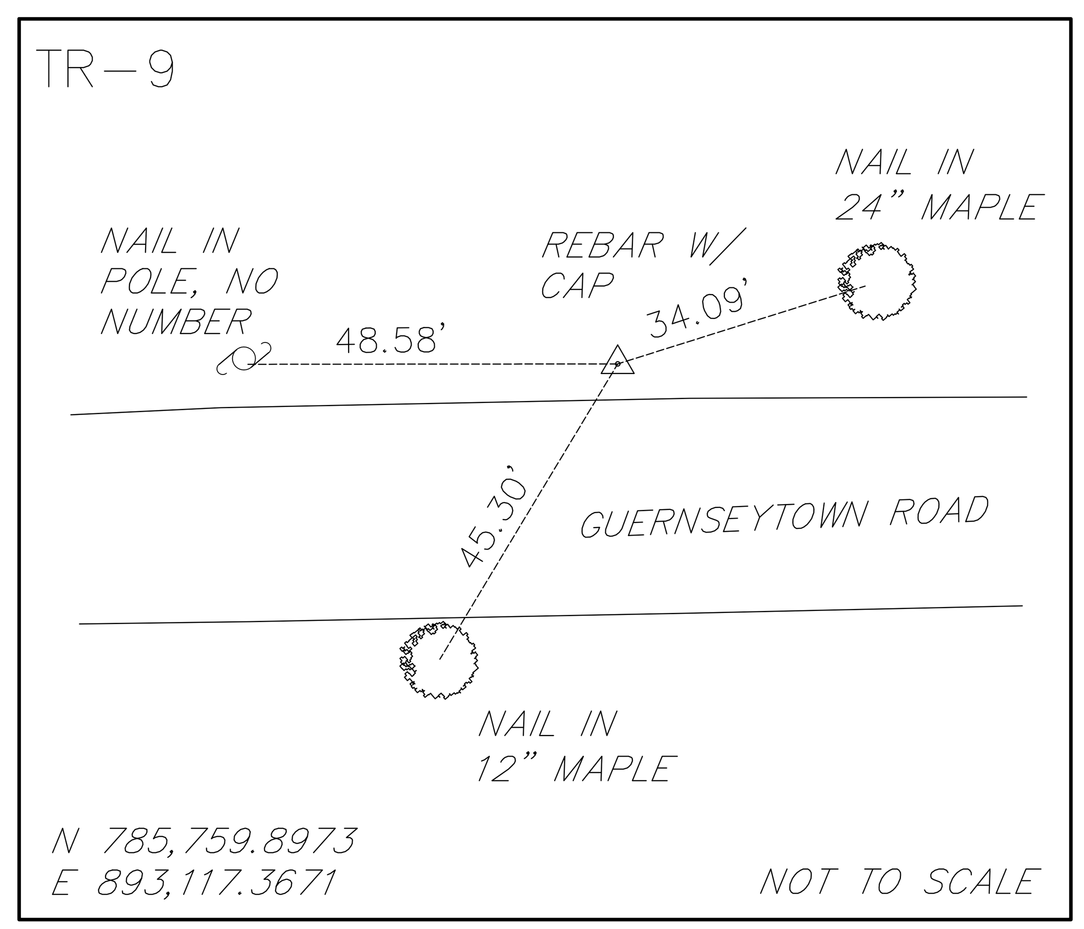

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DES BY: LEC
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DATE: JULY 2019
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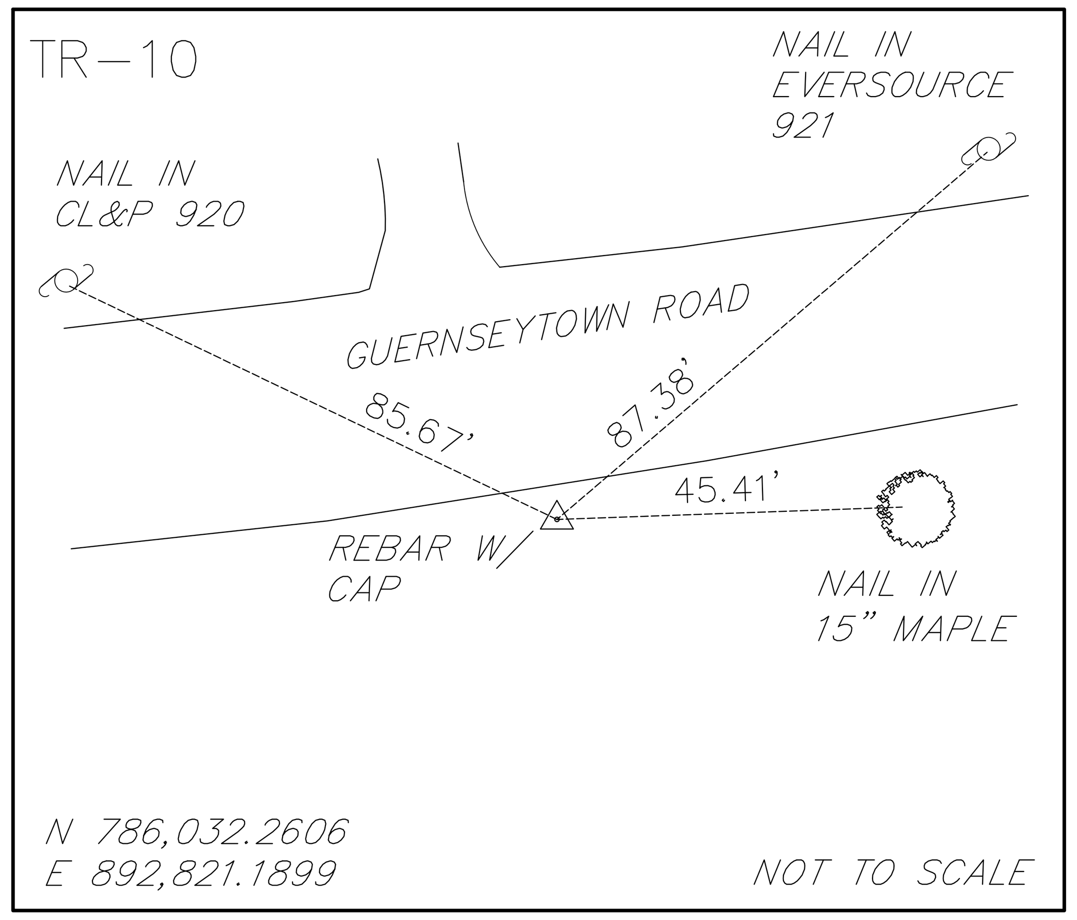
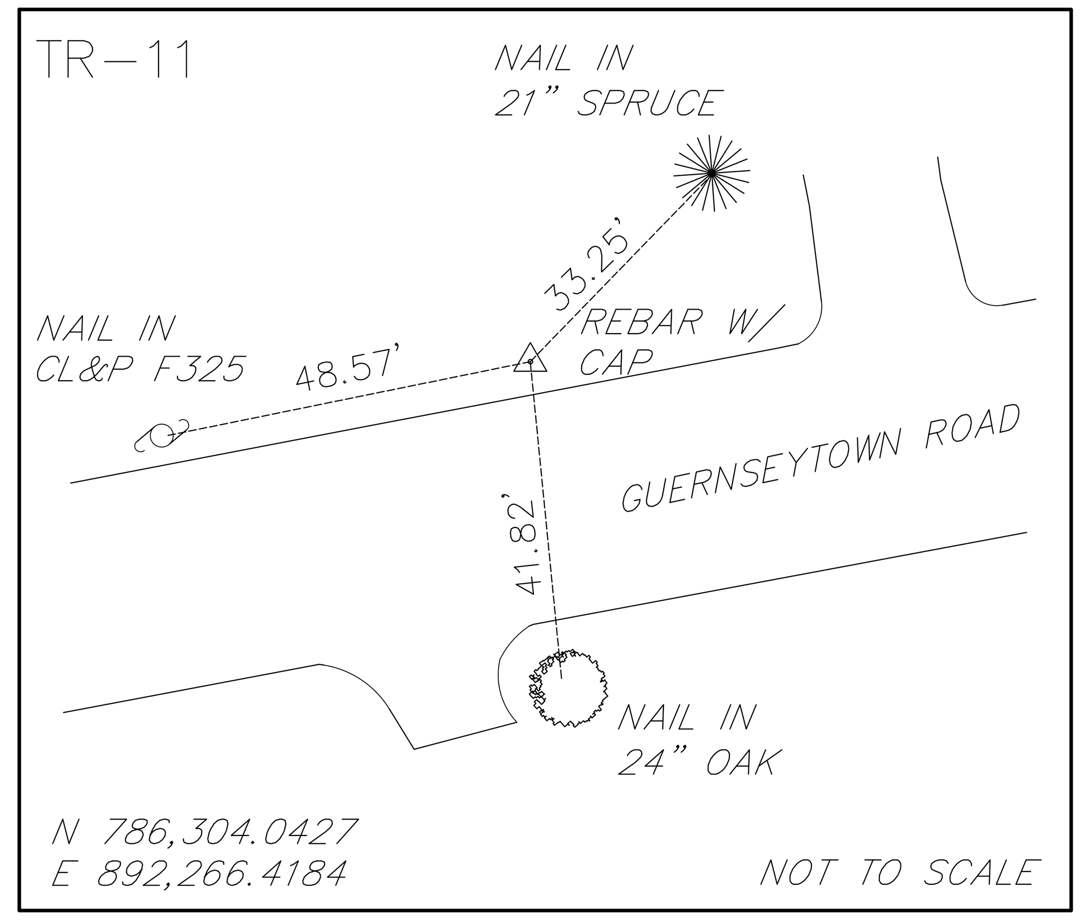
TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

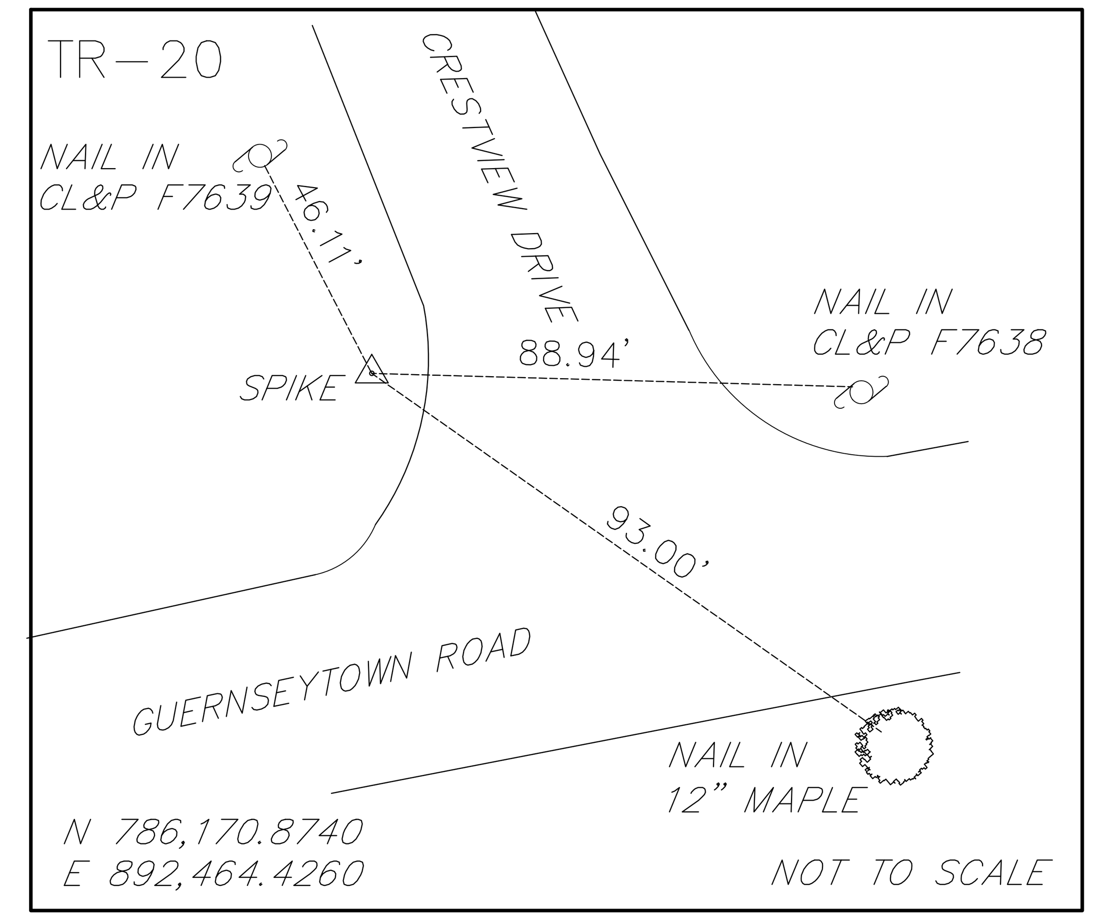
PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

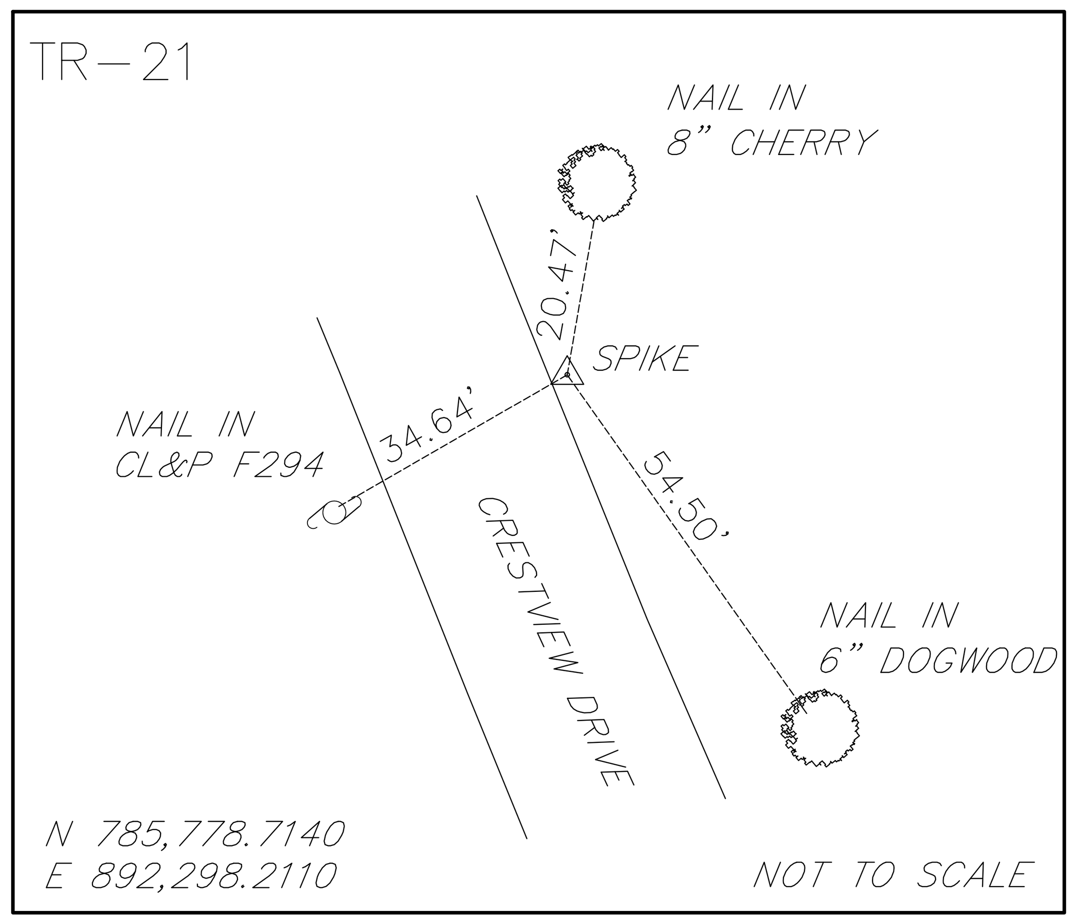
DRAWING TITLE:
SURVEY TIE POINTS

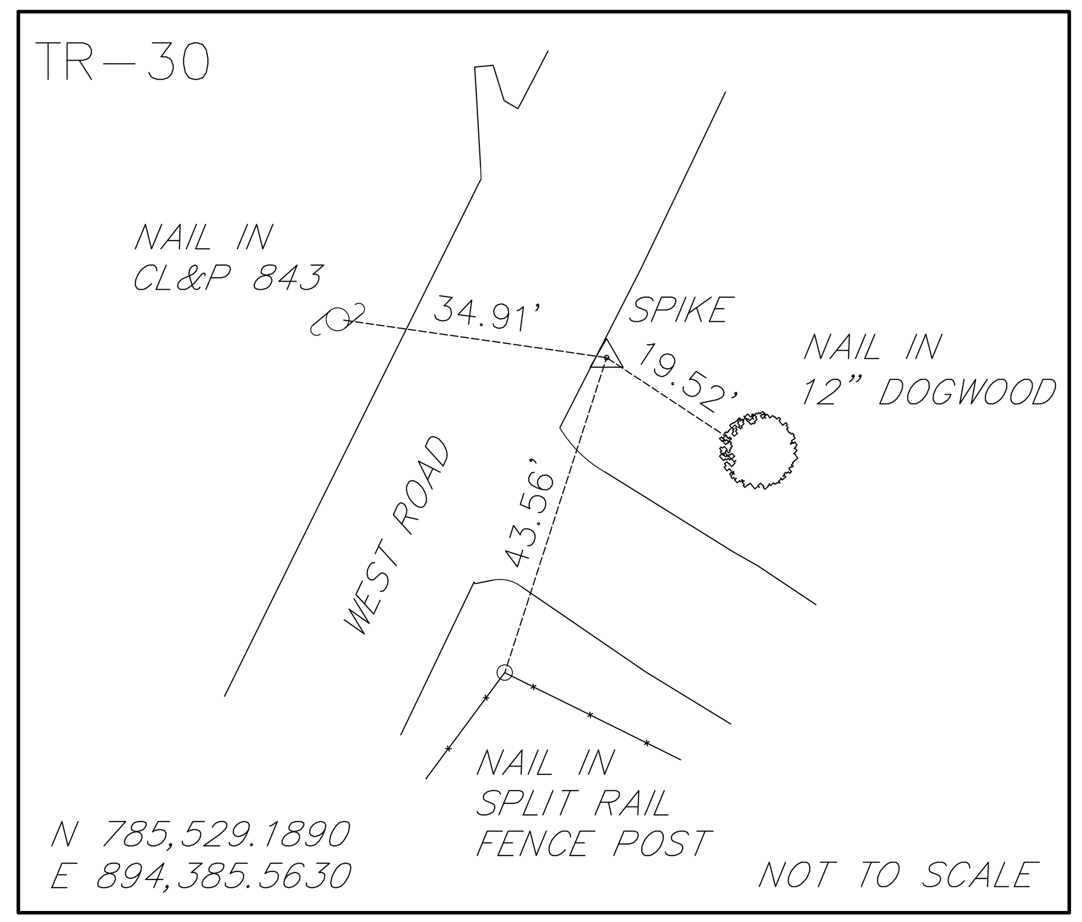
PROJECT NO. L153-0003
FILE NO.
DRAWING NO. TIE-1
SHEET NO. 3

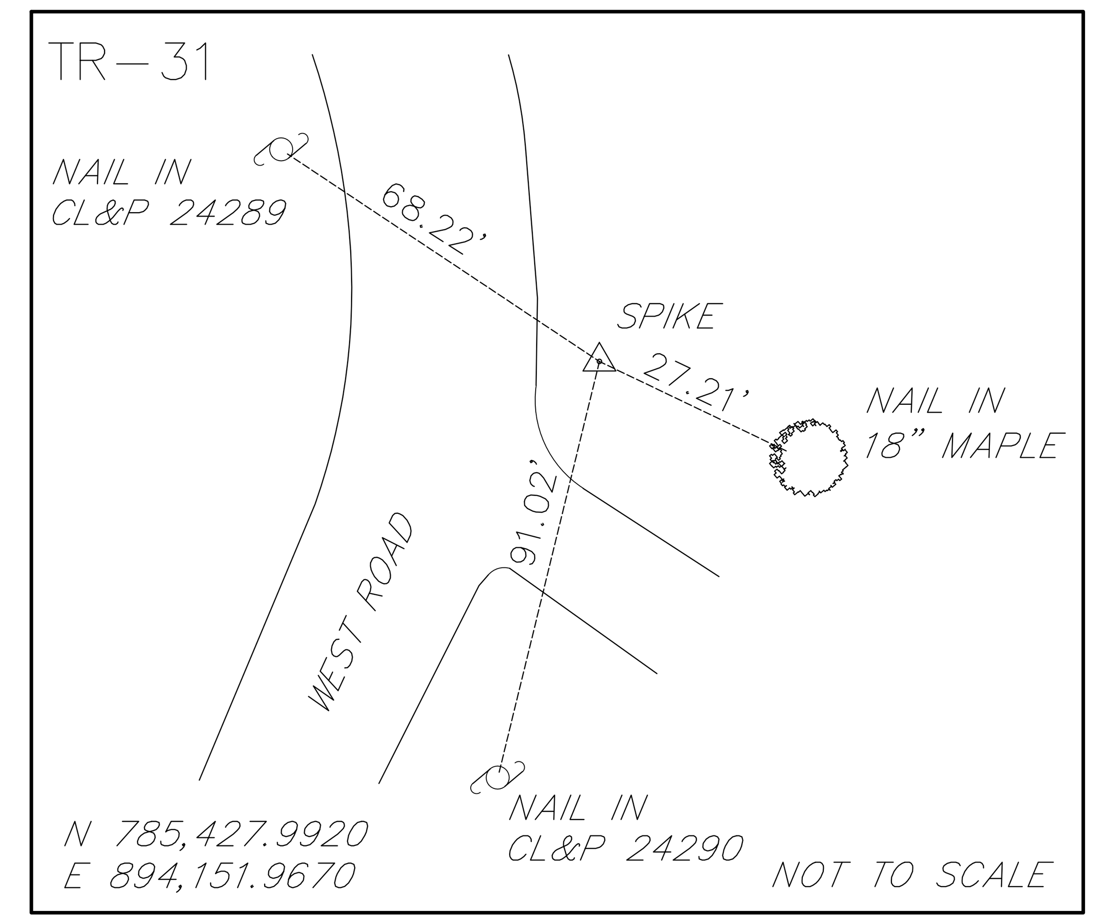












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DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE:
RECONSTRUCTION OF
GUERNSEYTOWN ROAD

DRAWING TITLE:
SURVEY TIE POINTS

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. TIE-2
SHEET NO. 1

SEDIMENTATION AND EROSION CONTROL PLAN

GENERAL
THIS PLAN PROPOSES EROSION CONTROL MEASURES TO ADEQUATELY CONTROL ACCELERATED EROSION AND SEDIMENTATION AND REDUCE THE DANGER FROM STORM WATER RUNOFF AT THE SITE. THE RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION, AND SAFE DISPOSAL OF PRECIPITATION. RUNOFF SHALL ALSO BE CONTROLLED BY STAGING CONSTRUCTION ACTIVITY AND PRESERVING NATURAL VEGETATION WHENEVER POSSIBLE.

EXISTING VEGETATION SHALL BE PROTECTED AND ONLY THAT CLEARING AND GRUBBING ABSOLUTELY NECESSARY FOR THE PROPOSED CONSTRUCTION SHALL BE PERFORMED. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR, UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING GUIDELINES.

REFERENCE IS MADE TO THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002), AS AMENDED. THE GUIDELINES ARE OBTAINABLE ONLINE FROM THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION AT WWW.CT.GOV/DEEP AND SHOULD BE USED AS A REFERENCE IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THESE PLANS.

SEDIMENTATION CONTROL
ALL AREAS SHALL BE PROTECTED FROM SEDIMENTATION DURING AND AFTER CONSTRUCTION, PARTICULARLY THE STORAGE OF EXCAVATED OR STOCKPILED MATERIAL. THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM, OR ORGANIC MATTER PRIOR TO TRENCHING OR OTHER OPERATIONS AND SHALL STORE THEM SEPARATELY FROM ALL OTHER MATERIALS DURING EXCAVATION. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIAL (I.E. SILT FENCE).

STABILIZING OF SLOPES SHALL BE DONE IMMEDIATELY AFTER CONSTRUCTION OF SLOPES. SLOPES THAT ARE 2:1 OR STEEPER SHALL BE PROTECTED WITH EROSION CONTROL MATTING TYPE H. ALL OTHER AREAS SHALL BE MULCHED WITH HAY OR STRAW AS REQUIRED.

EROSION AND SEDIMENTATION CONTROL PLAN
SEDIMENTATION CONTROL SYSTEM – THE SEDIMENTATION CONTROL SYSTEM SHALL CONSIST OF SILT FENCE.

GEOTEXTILE BARRIER FENCE – THE SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED IMMEDIATELY AFTER A CUT SLOPE HAS BEEN GRADED, BEFORE A FILL SLOPE HAS BEEN CREATED AND AS INDICATED ON THE PLANS. THE SYSTEM IS DESIGNED TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE WETLAND AREAS, OR WATERCOURSES. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. THE SEDIMENTATION CONTROL SYSTEM IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCE ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

RIPRAP – RIPRAP, IF REQUIRED OR SPECIFIED, IS TO BE INSTALLED AS ENERGY, DISSIPATION STRUCTURES. THE RIPRAP IS TO BE INSTALLED BEFORE OUTLET STRUCTURES ARE ACTIVATED, AND ALL ADJACENT AREAS ARE TO BE IMMEDIATELY SEEDED IF IN SEASON OTHERWISE THE SOIL IS TO BE STABILIZED BY OTHER METHODS.

IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION, AND DISTURBANCE OF THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.

DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED FOR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING SO AS TO PREVENT EROSION.

SEDIMENTATION AND EROSION CONTROL MAINTENANCE PROCEDURES
ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A WEEKLY BASIS, AND FOLLOWING ALL STORMS, BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF THE REQUEST AND THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK.

THE CONTRACTOR SHALL PROVIDE ROUTINE SWEEPING OF ALL PAVED SURFACES SUBJECT TO SEDIMENT ACCUMULATION DURING CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION OF CONSTRUCTION, AND AS REQUESTED BY THE RESIDENT ENGINEER TO KEEP THE SYSTEM FUNCTIONING PROPERLY DURING CONSTRUCTION.

FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

TYPICAL CONSTRUCTION SEQUENCE

PRIOR TO COMMENCEMENT OF WORK, EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED. A TYPICAL SEQUENCE OF CONSTRUCTION IS:

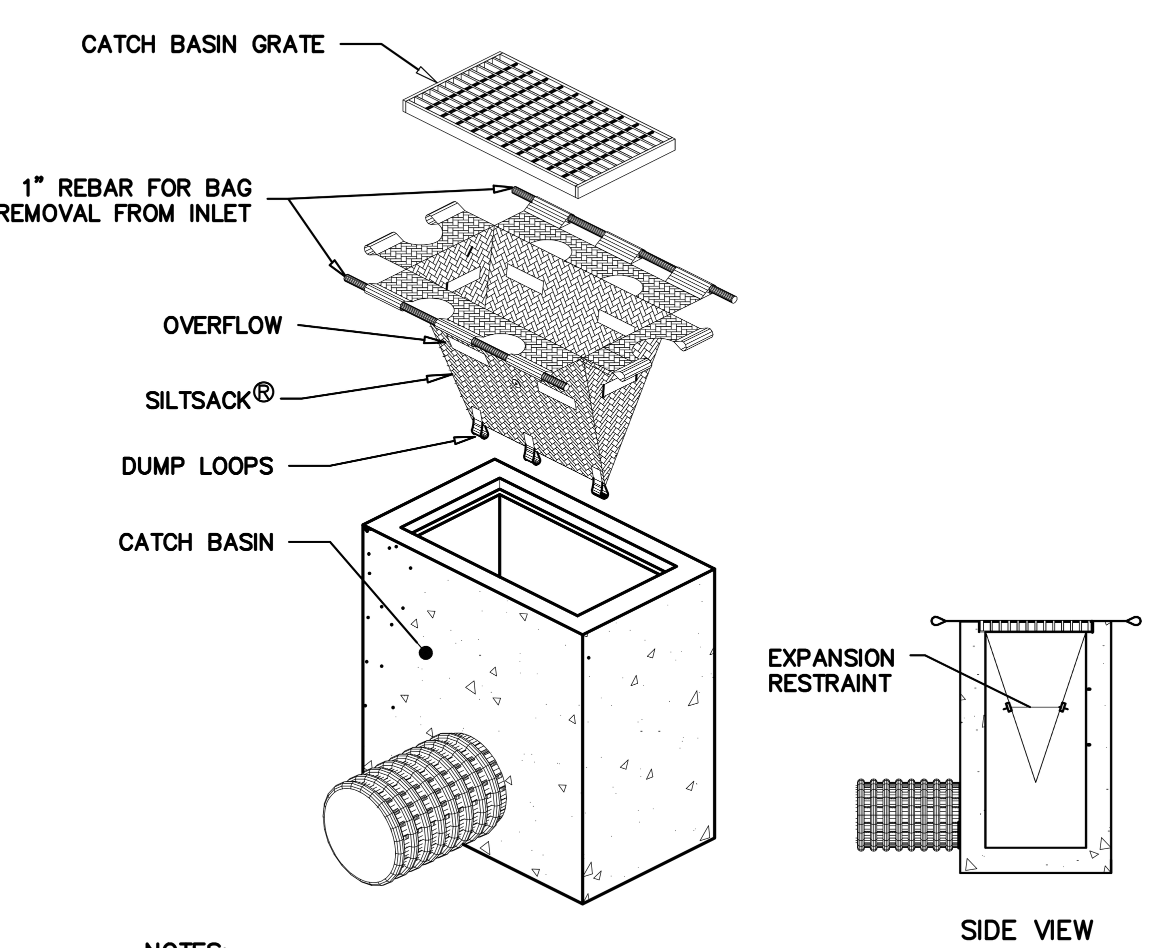
1. OBTAIN APPROPRIATE PERMITS, NOTIFY TOWN OFFICIALS OF CONSTRUCTION COMMENCEMENT, AND SUBMIT CONSTRUCTION TIMETABLE.

2. ON–SITE CONSTRUCTION SEQUENCE SHALL START WITH THE MINIMUM AMOUNT OF CLEARING REQUIRED TO INSTALL EROSION CONTROL MEASURES AS SHOWN ON PLAN. THIS INCLUDES SILTATION FENCING, SILT CURTAIN, AND OTHER MEASURES NOTED ON THE PLAN. NO WORK SHALL TAKE PLACE UNTIL THE ENGINEER AND WETLAND ENFORCEMENT OFFICER HAVE INSPECTED AND APPROVED INSTALLED MEASURES.

DURING CONSTRUCTION ALL EROSION AND SEDIMENT STRUCTURES SHALL BE MAINTAINED IN PROPER WORKING ORDER. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL ONLY TAKE PLACE WHERE IMMEDIATELY REQUIRED TO FURTHER CONSTRUCTION. IT IS DESIRABLE FROM AN EROSION PREVENTION CONCERN TO MINIMIZE DISTURBED AREAS. FINAL GRADING AND SEEDING SHALL TAKE PLACE AS SOON AS PRACTICAL.

A RAIN GAUGE SHALL BE PLACED AT THE PROJECT SITE IN A WORKABLE LOCATION AND MONITORED DURING RAINFALL PERIODS UNTIL ALL DISTURBED AREAS ARE STABILIZED. IN THE EVENT THERE IS A RAINFALL GREATER THAN 1/2" IN A 12 HOUR PERIOD, ALL EROSION CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS REQUIRED. IF NO RAIN GAUGE IS USED, ALL EROSION CONTROL MEASURES SHALL BE CHECKED AFTER ALL RAINFALL EVENTS.

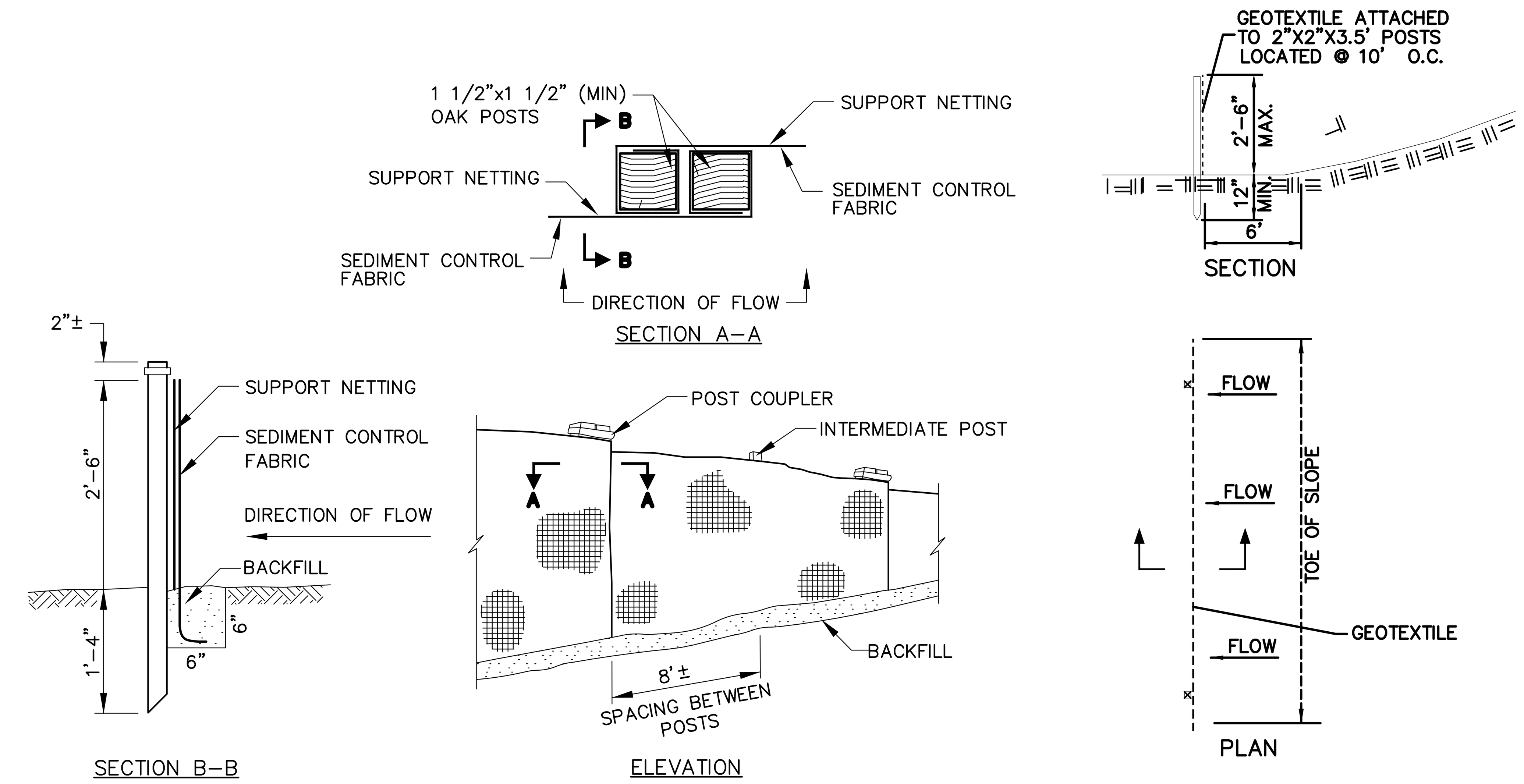
A CHECK LIST PROVIDED BY THE ENGINEER SHALL BE FILLED OUT EVERY WEEK OR AFTER EACH RAINFALL EVENT OF 1/2" OR GREATER.



NOTES:
1. PROVIDE HI–FLOW SILT SACK TYPE A FOR TYPE "C–L" CATCH BASIN TOPS AND TYPE B WITH CURB DEFLECTOR FOR TYPE "C" CATCH BASIN TOPS OR OTHER STRUCTURES WITH CURB INLET.

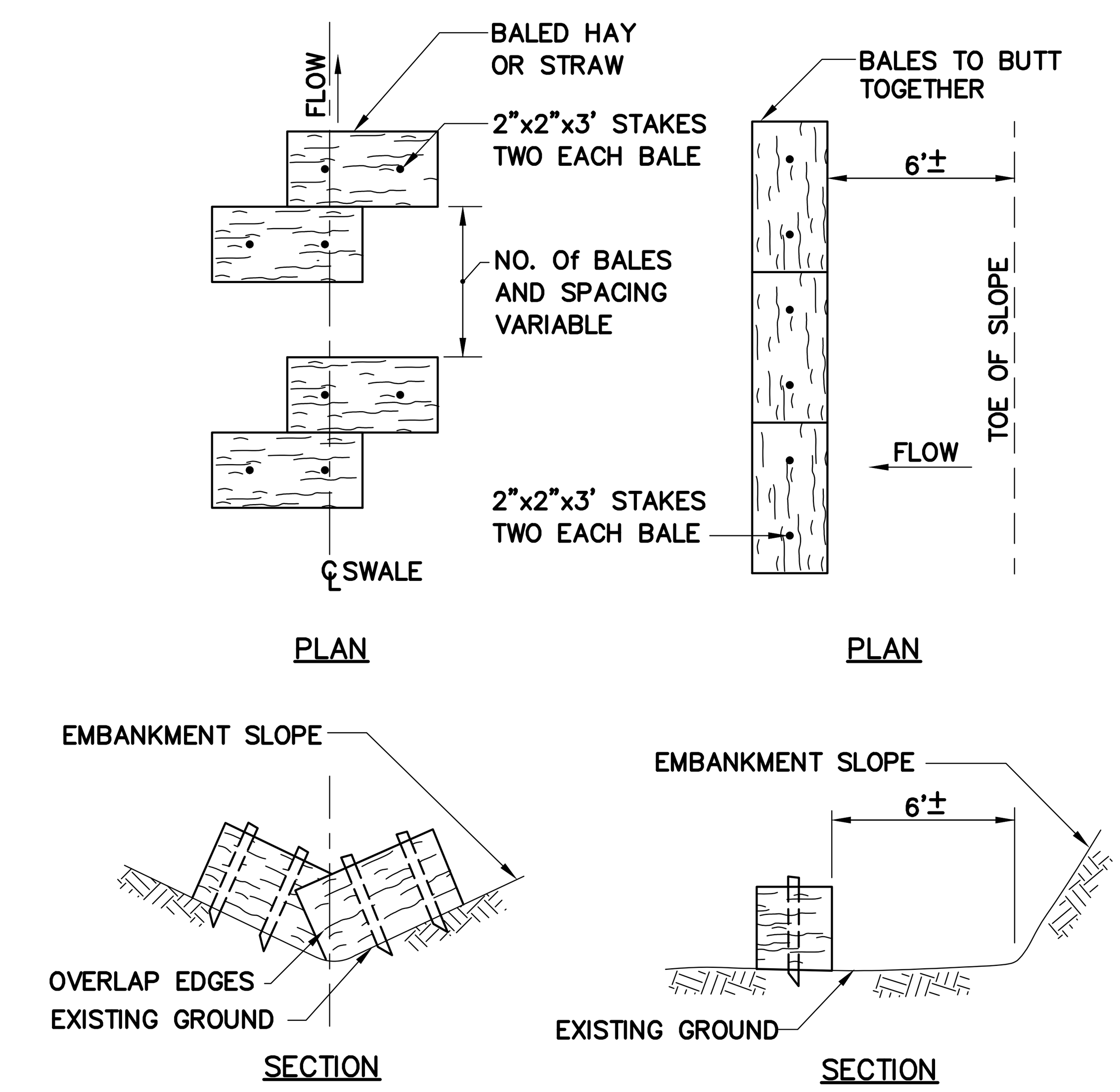
CATCH BASIN INLET PROTECTION

N.T.S.



SEDIMENTATION AND EROSION CONTROL DETAIL (SILT FENCE)

N.T.S.



NOTE: TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES IN TOWARD THE TOE OF SLOPE

NOTE: TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES AWAY FROM THE TOE OF SLOPE

HAY BALES DETAIL

N.T.S.

NO.	REVISIONS	BY	DATE	DES BY: LEC	DATE: JULY 2019	SUBMITTED BY: DATE:
				DRN BY: LEC		APPROVED BY: DATE:
				CHK BY: LAS	SCALE: AS SHOWN	
				APPD BY: ALN		

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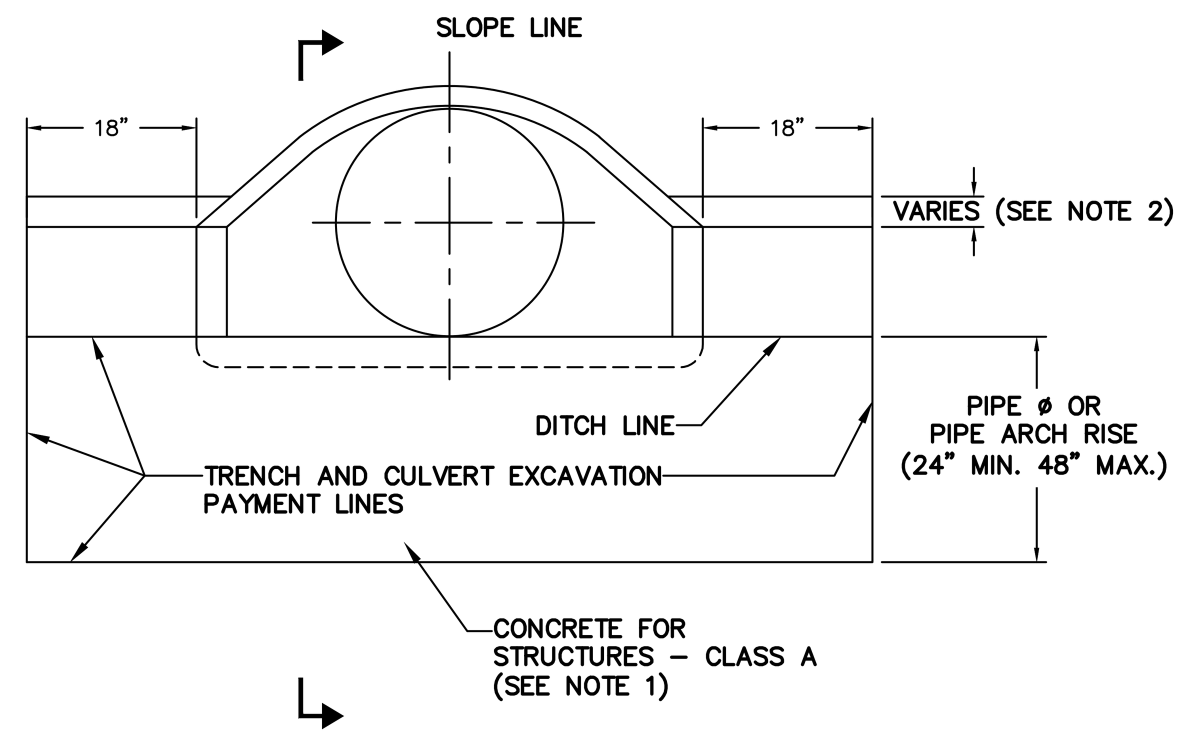
TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

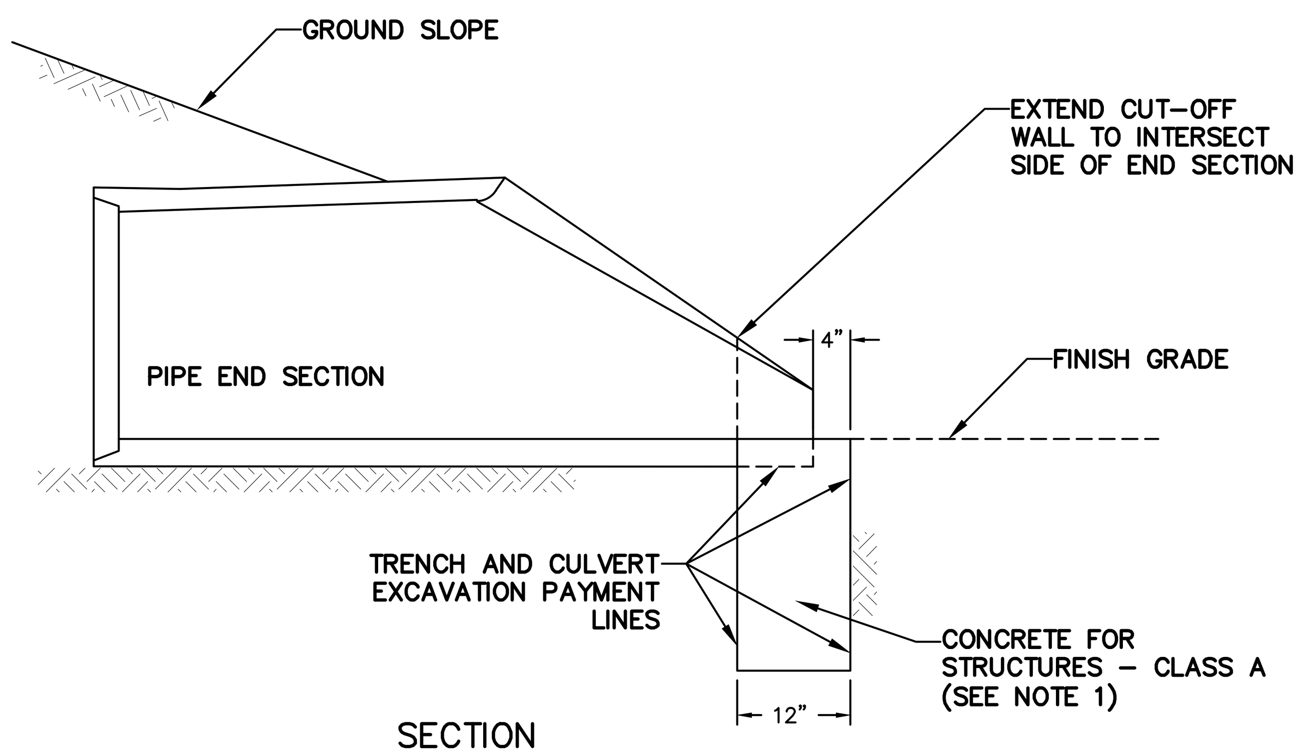
PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE: EROSION CONTROL DETAILS

PROJECT NO. L153–0003
FILE NO.
DRAWING NO. DET–1
SHEET NO. 5



ELEVATION



SECTION

NOTES:
1. CUT-OFF WALL SHALL BE CAST IN PLACE. THE PORTION OF THE CONCRETE CUT-OFF WALL BELOW THE FINAL GRADE LINE SHALL BE CAST AGAINST UNDISTURBED SOIL IF FEASIBLE. THE CONCRETE CUT-OFF WALL SHALL BE POURED AFTER THE END SECTION IS INSTALLED.

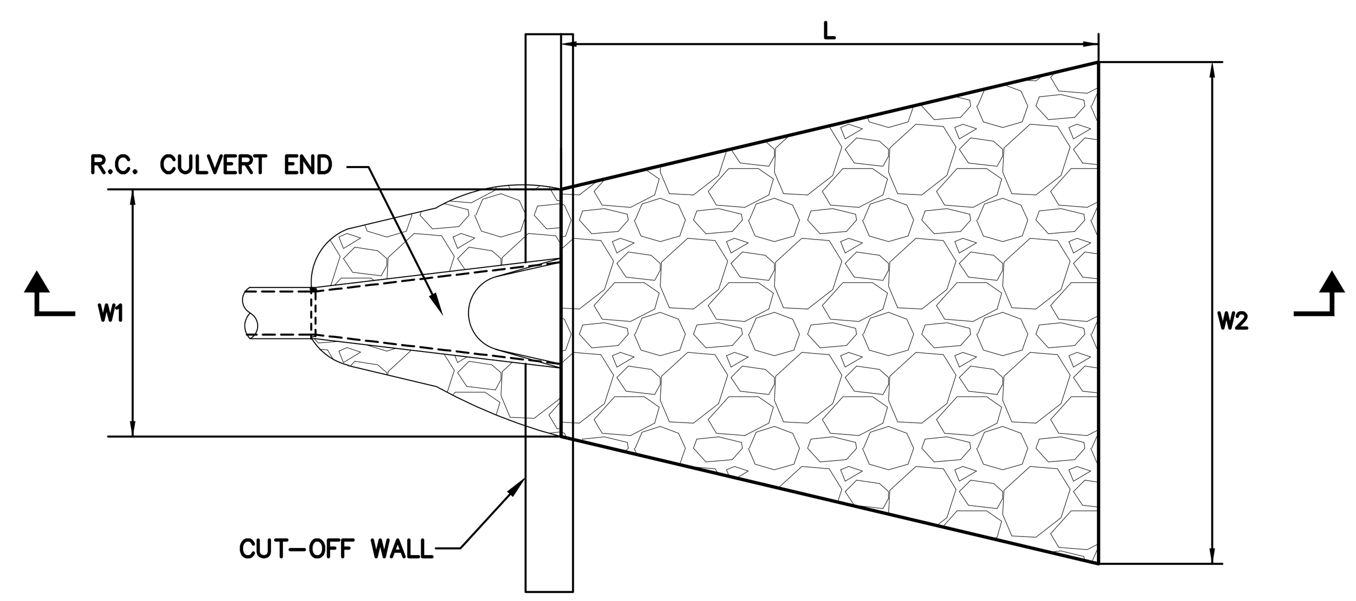
2. VARIES BASED ON DIMENSIONS OF SPECIFIED END SECTION.

3. ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF §707-20. THE NUTS AND BOLTS SHALL BE SO ASSEMBLED THAT IN THE FINAL ASSEMBLY, THE BOLT AND ONE OF THE NUTS IS EMBEDDED IN CONCRETE, THAT THE CHAMFERED FACES OF THE NUTS FACE EACH OTHER, AND SECURE THE TOE PLATE BETWEEN THEM.

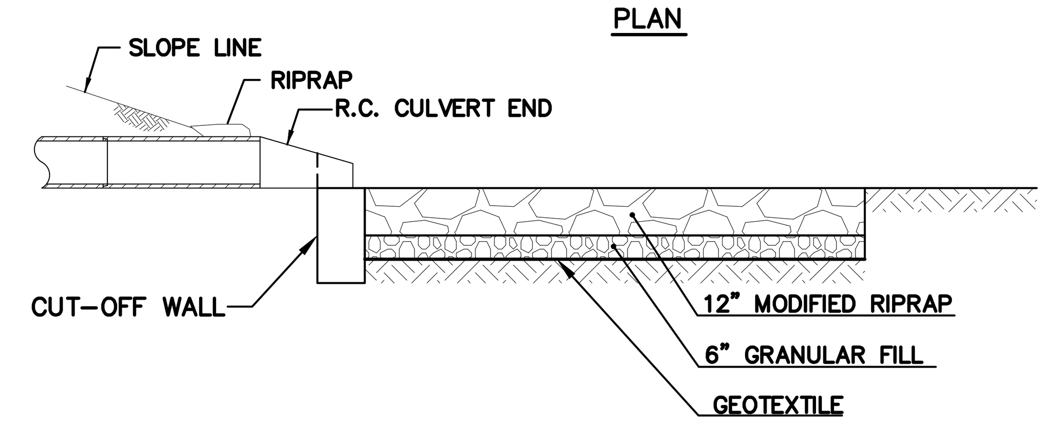
DIMENSIONS		
CONCRETE END SECTION DIAMETER (IN.)	EXCAVATION PAYMENT VOLUME (C.Y.)	CONCRETE PAYMENT VOLUME (C.Y.)
12	0.38	0.41
15	0.42	0.46
18	0.46	0.50
24	0.54	0.58
27	0.64	0.69
30	0.76	0.80
33	0.92	0.95
36	1.02	1.07
42	1.27	1.35
48	1.57	1.65

CUT-OFF WALL REINFORCED CONCRETE PIPE END SECTIONS

N.T.S.



PLAN

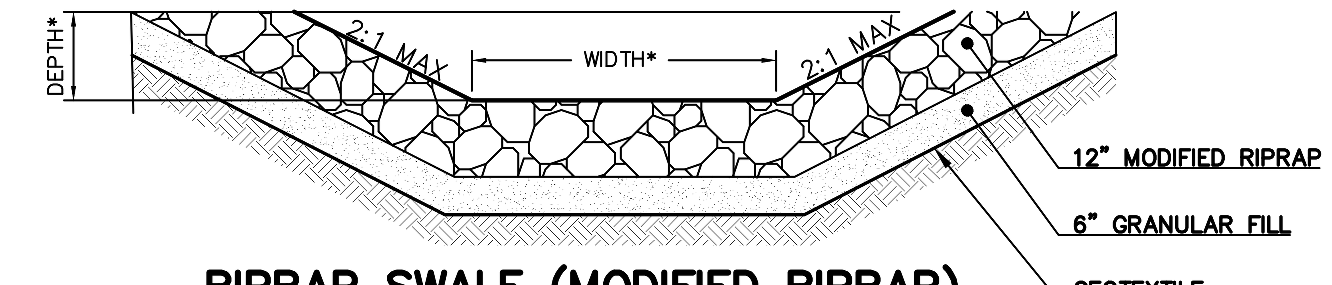


SECTION

DIMENSIONS			
STA	W1	W2	L
10+50	9'	16'	15'
117+78	4'	4'	1.7'
119+75	5'	7.3'	11.5'

RIPRAP APRON

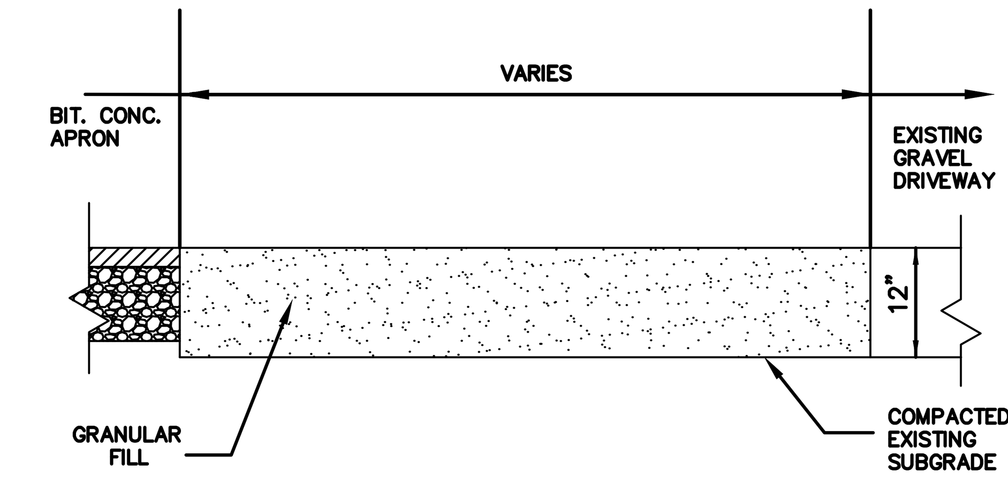
N.T.S



RIPRAP SWALE (MODIFIED RIPRAP)

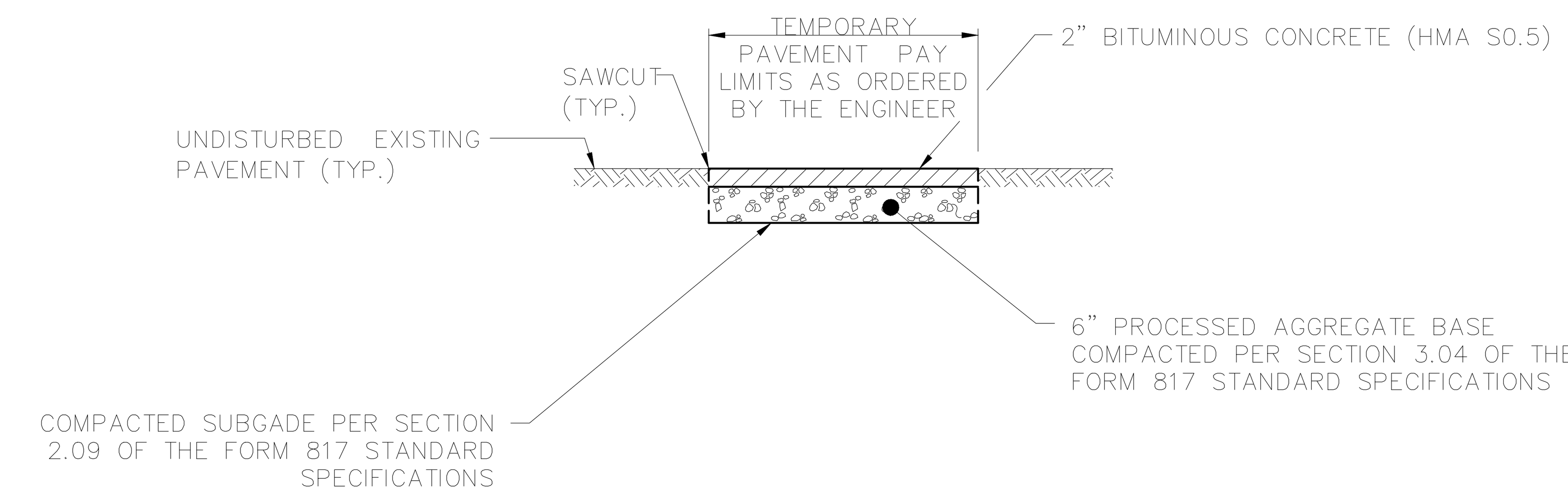
N.T.S.

NOTE: *SEE PLANS FOR DIMENSIONS



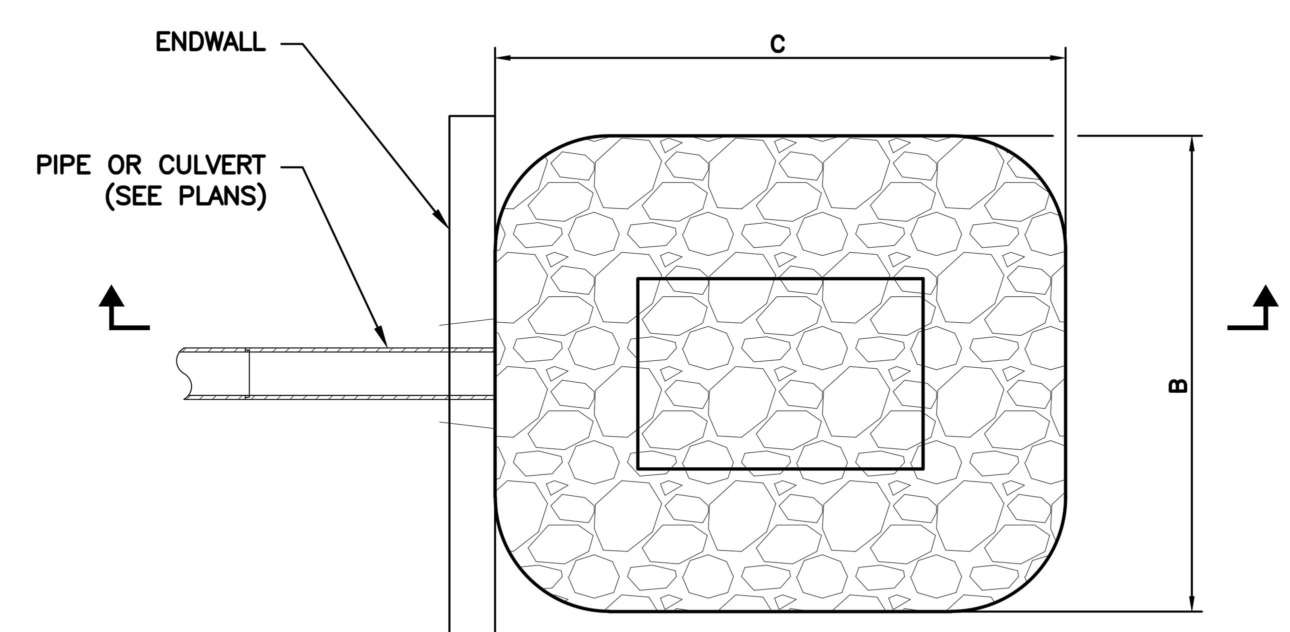
GRAVEL DRIVEWAY

N.T.S.

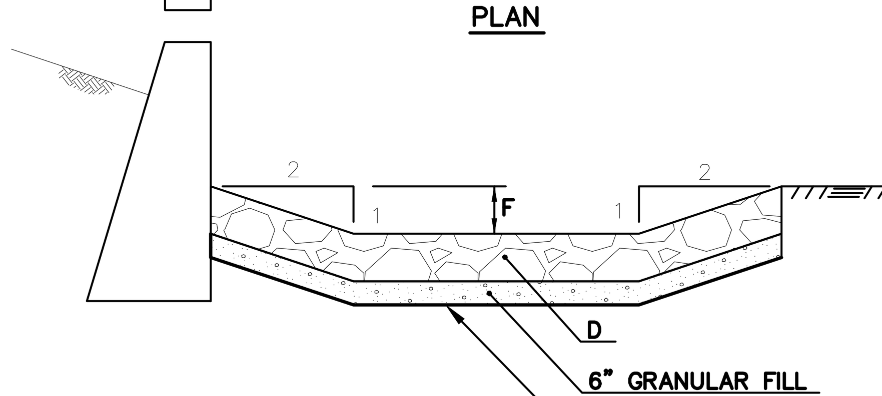


TEMPORARY PAVEMENT DETAIL

N.T.S.



PLAN



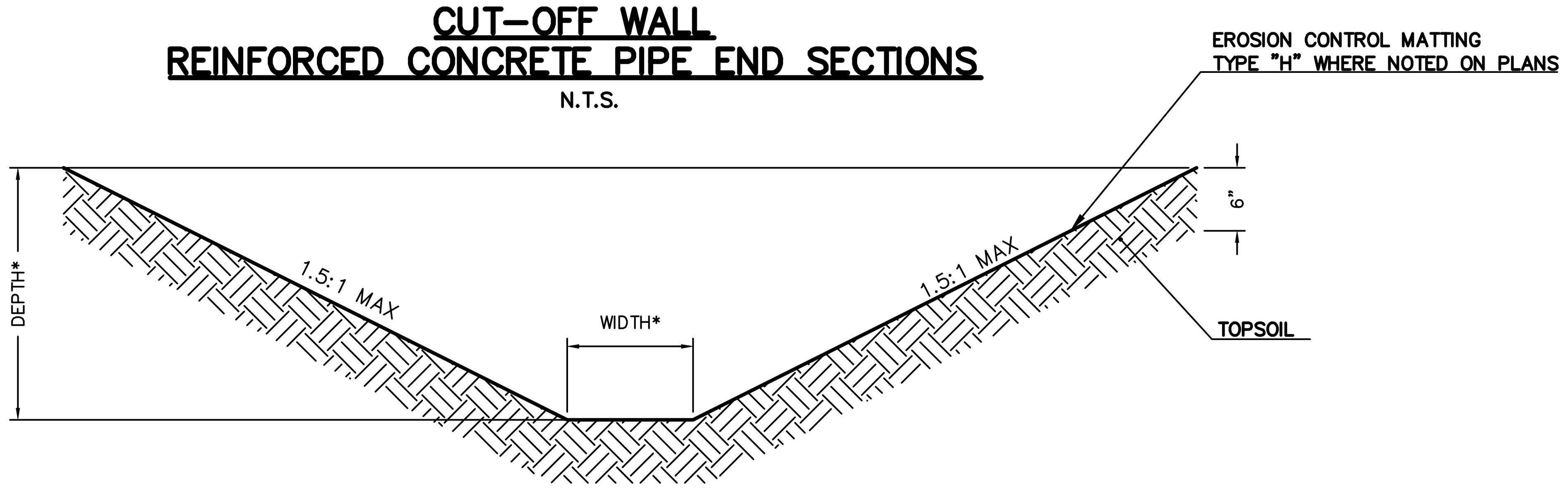
SECTION

NOTES:
D= 18" INTERMEDIATE RIPRAP

DIMENSIONS			
STA	B	C	F
7+50	22'	17.8'	2'
10+00	12.5'	6.2'	2'
31+50	10'	14'	1'–0"

PREFORMED SCOUR HOLE TYPE 1

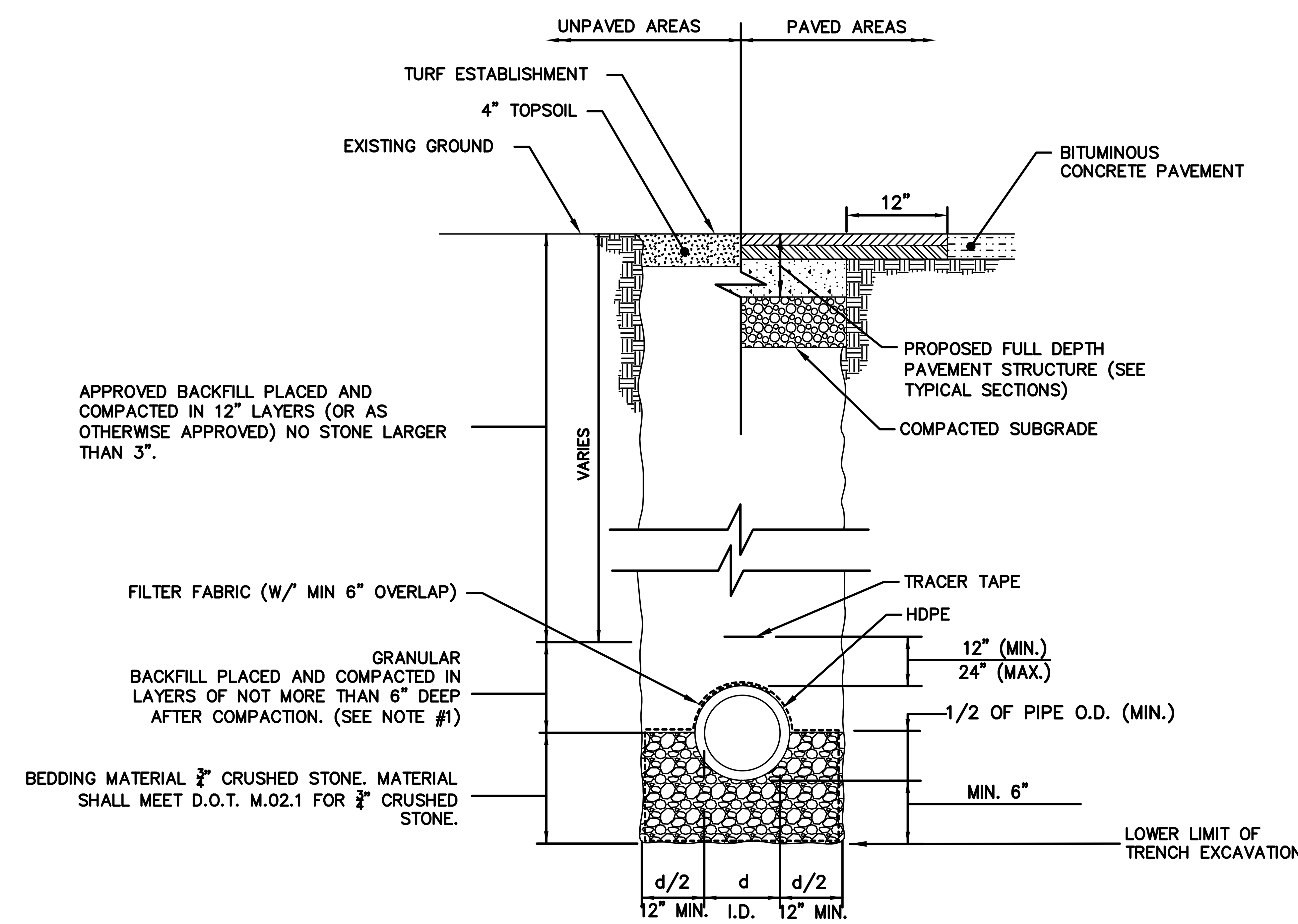
N.T.S.



GRASS SWALE (EROSION CONTROL MATTING TYPE "H")

N.T.S.

NOTE: *SEE PLANS FOR DIMENSIONS



STORM DRAIN TRENCH DETAIL – HDPE

N.T.S.

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CHK BY: LAS
APP'D BY: ALN

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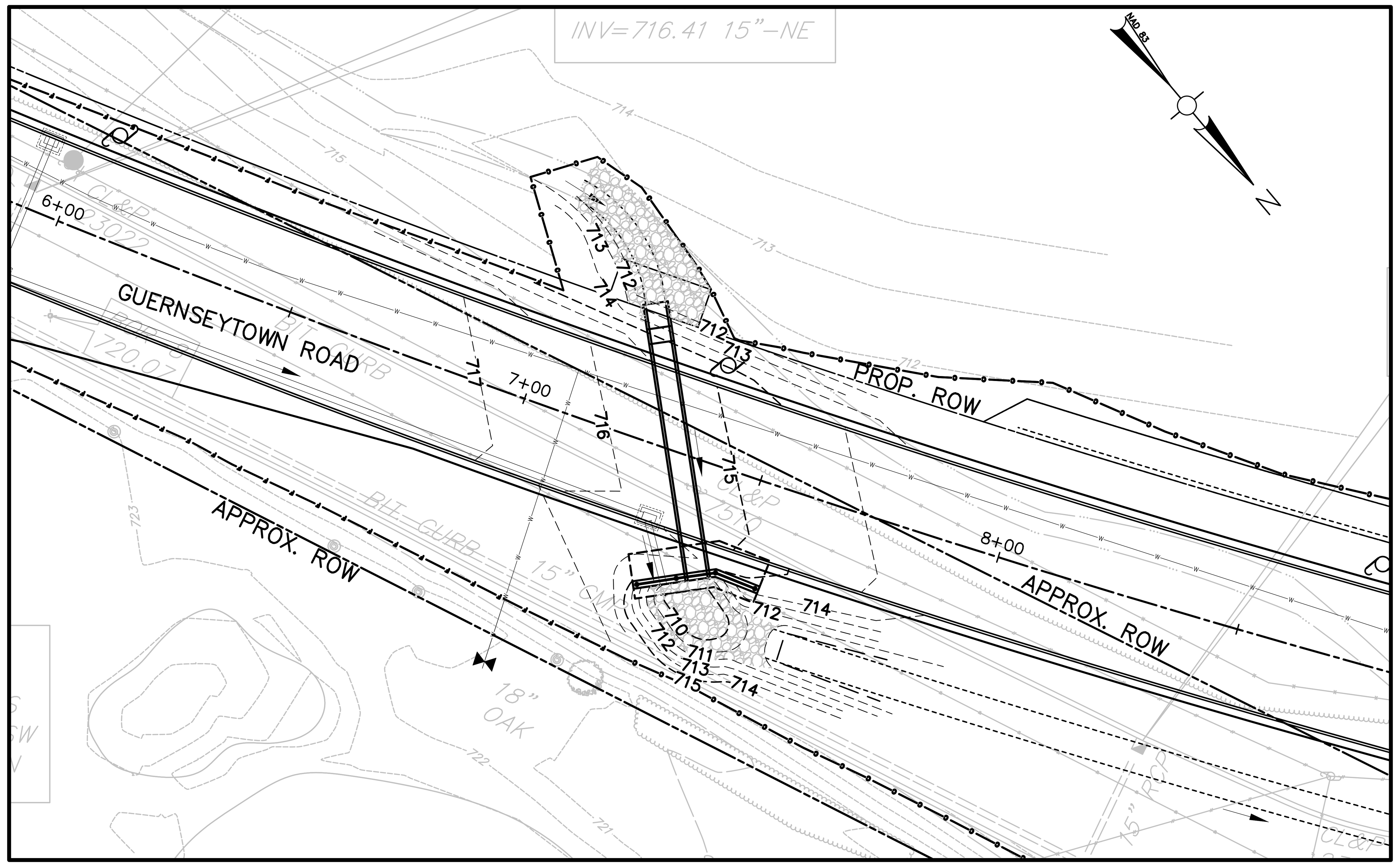
PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

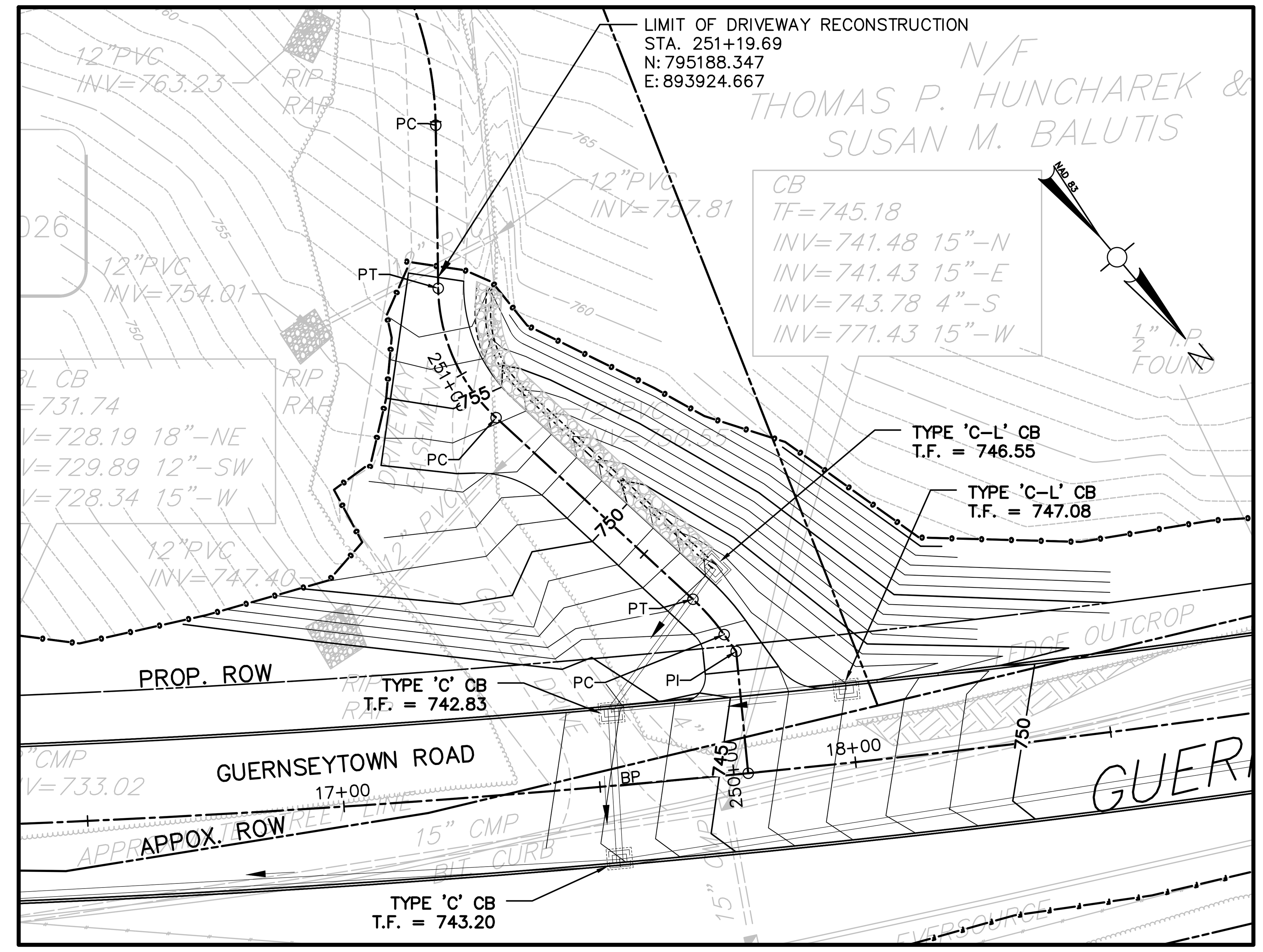
DRAWING TITLE:
MISCELLANEOUS DETAILS

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. DET-2
SHEET NO.



ENDWALL 1 GRADING PLAN

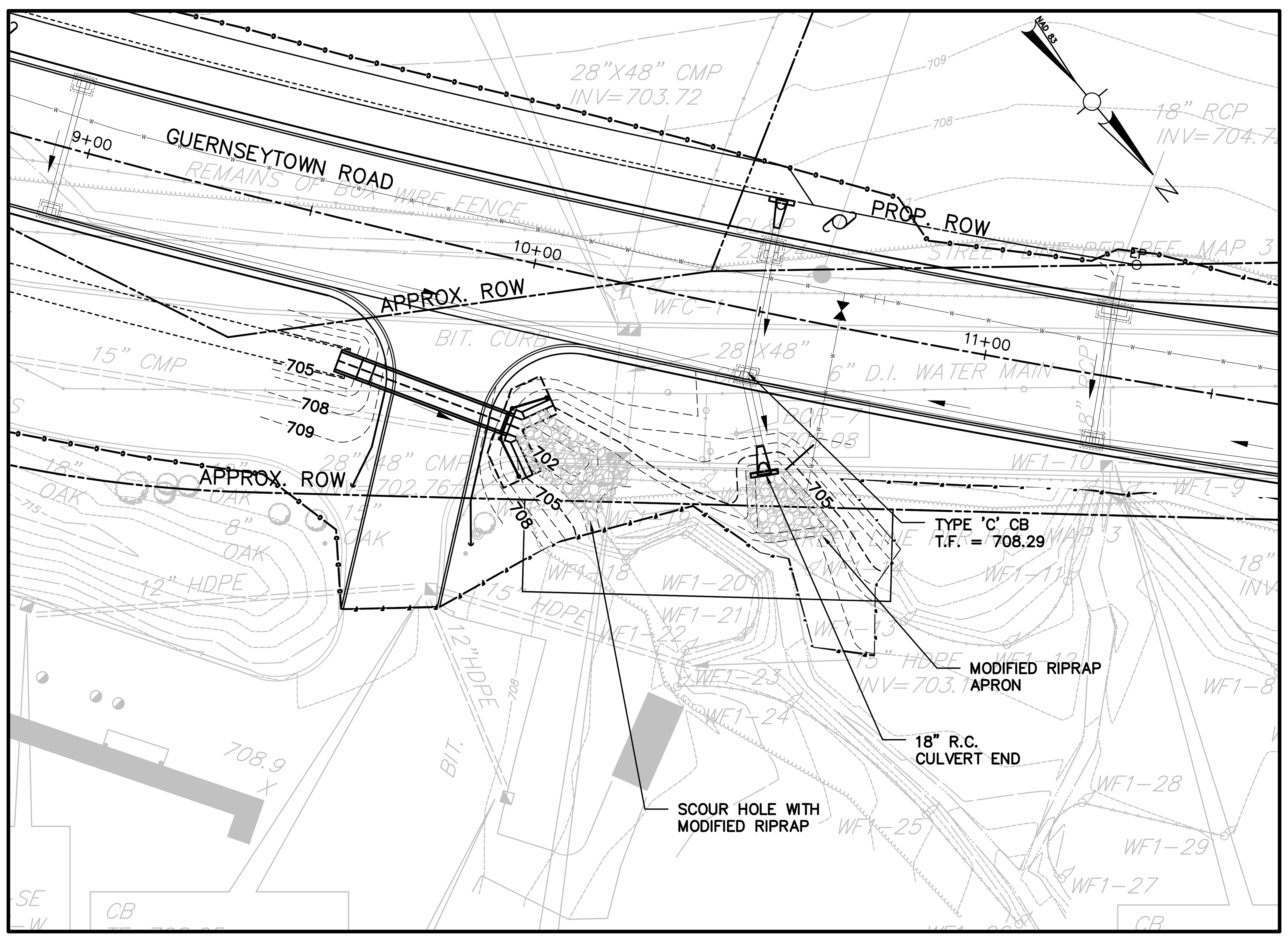
SCALE: 1"=20'



DRIVEWAY AT STA 17+79 GRADING PLAN

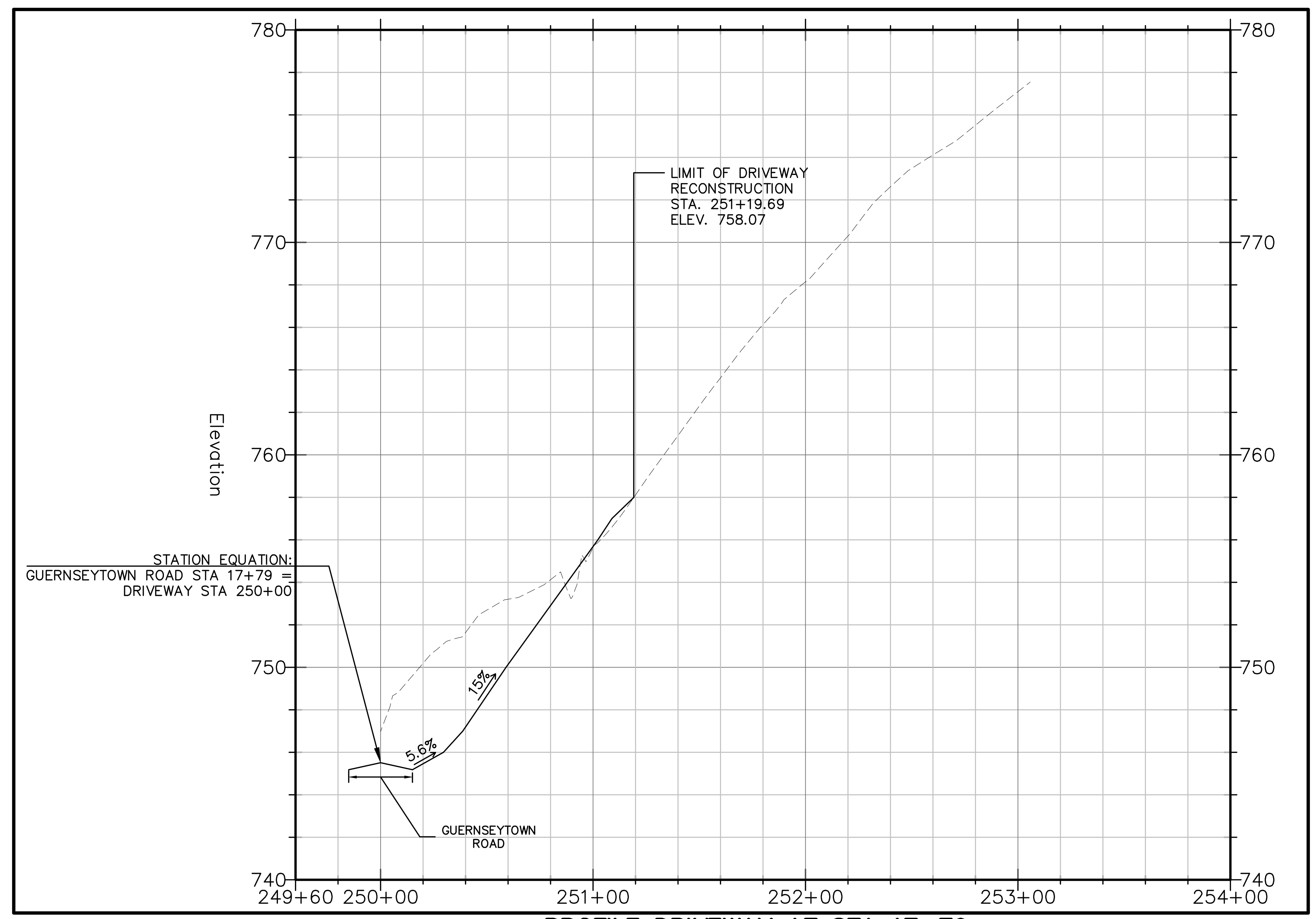
SCALE: 1"=20'

0 20' 40' 60'



ENDWALL 2 GRADING PLAN

SCALE: 1"=20'



PROFILE DRIVEWAY AT STA 17+79

SCALE: 1"=40' HORZ, 1"=4' VERT

NO.	REVISIONS	BY	DATE

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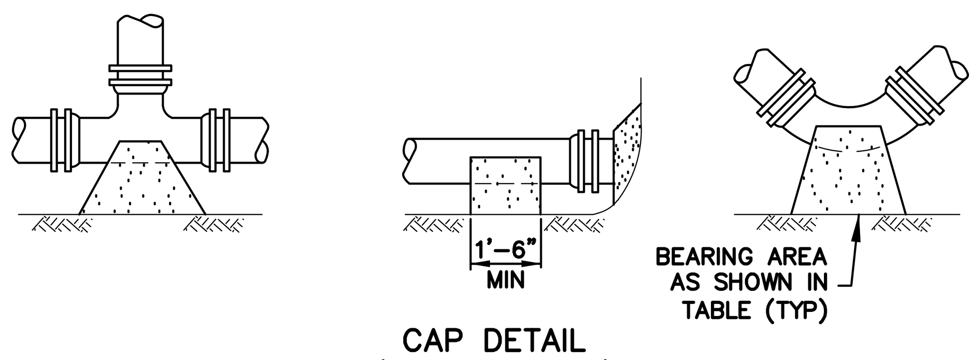
PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE: GRADING DETAILS

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. DET-3
SHEET NO. 7



TEE DETAIL
(PLAN VIEW)

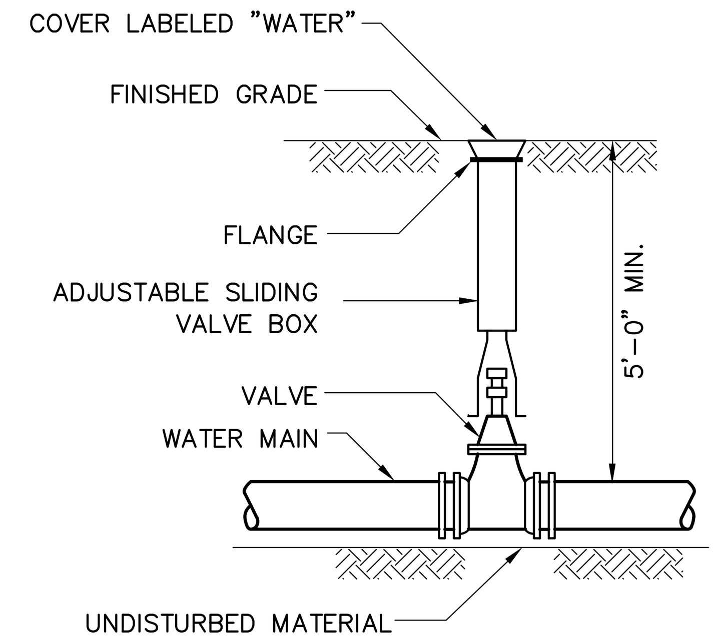
CAP DETAIL
(PLUG SIMILAR)
(SECTION VIEW)

BEND DETAIL
(PLAN VIEW)

TABLE OF CONCRETE THRUST RESTRAINT MINIMUM BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS				
SIZE OF MAIN	90° BENDS, TEES, CAPS AND PLUGS	45° BENDS AND WYES	22-1/2° BENDS	11-1/4° BENDS
6", 8"	5	4	2	2
10", 12"	12	9	5	2

NOTES:
1. CONCRETE THRUST RESTRAINT SHALL ONLY BE USED WHERE OTHER MEANS OF RESTRAINT ARE NOT FEASIBLE.
2. CONTRACTOR SHALL USE CARE TO AVOID PLACEMENT OF CONCRETE ON THE FITTING JOINTS.

CONCRETE THRUST RESTRAINT FOR FITTINGS
N.T.S.

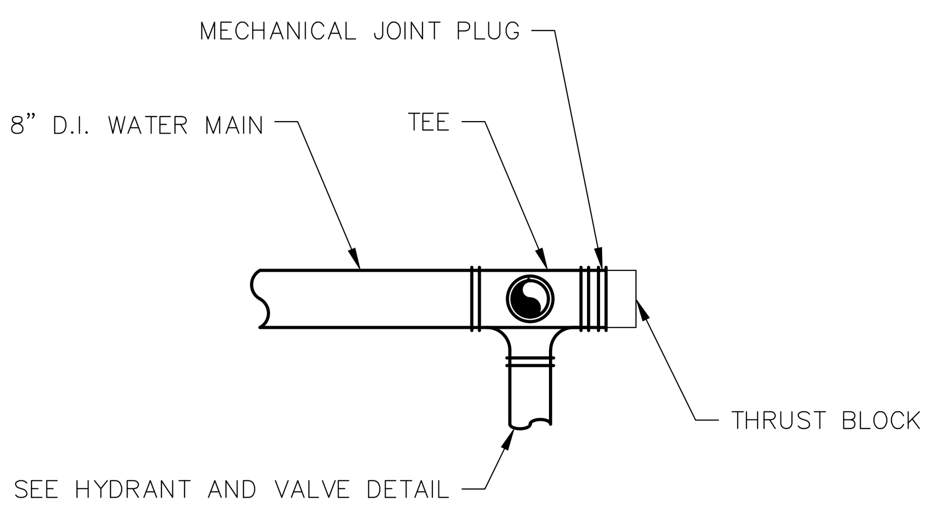


VALVE AND BOX DETAIL
N.T.S.

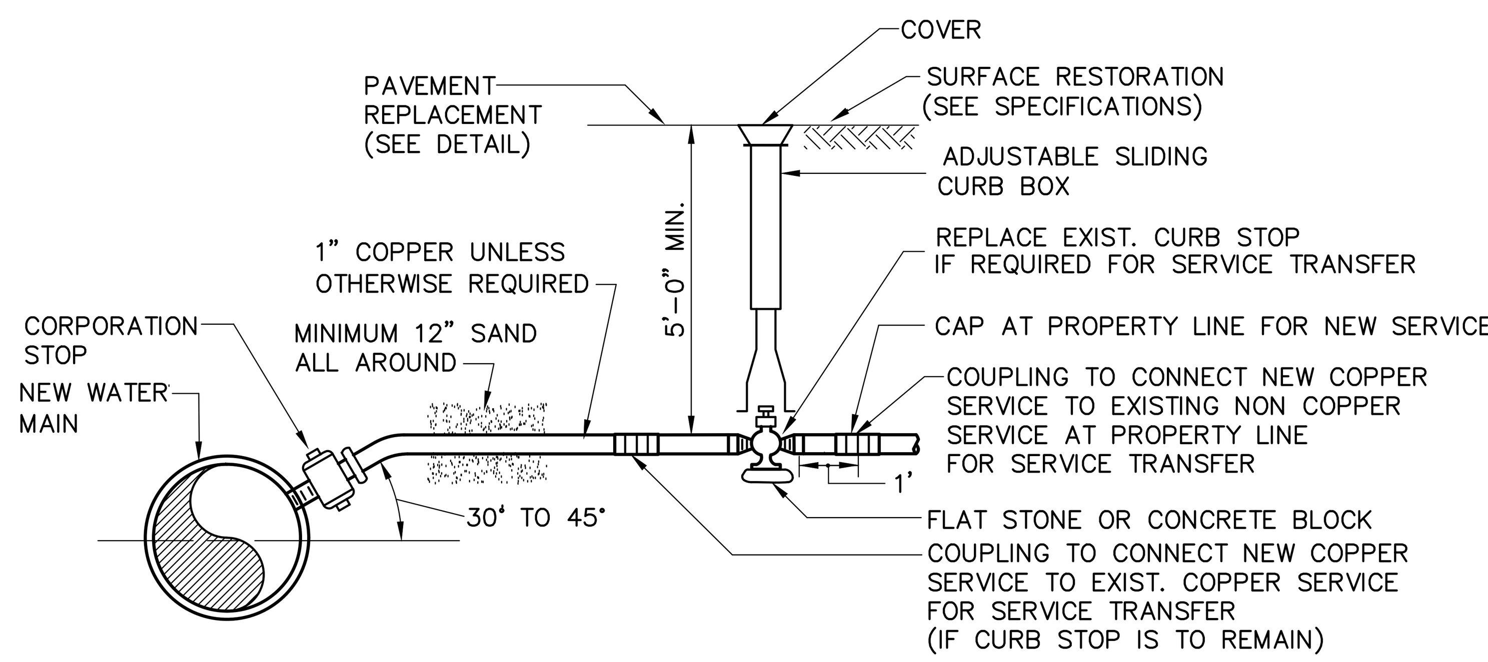
TABLE 1
REQUIRED MINIMUM LENGTH OF RESTRAINED JOINTS FROM FITTINGS (FEET)

PIPE SIZE	90° BEND	45° BEND OR WYE BRANCH	22 1/2° BEND	11 1/4° BEND	PLUG, CAP OR IN-LINE VALVE	TEE (BRANCH)
6"	25 (30.5)	10.5 (12.5)	5 (6)	2.5 (3)	43 (64)	34 (51)
8"	33 (40)	13.5 (16.5)	6.5 (8)	3 (4)	55 (82)	47 (70)
10"	40 (48.5)	16.5 (20)	8 (9.5)	4 (5)	67 (100)	58 (87)
12"	47 (56.5)	19.5 (23.5)	9.5 (11.5)	4.5 (5.5)	79 (118)	70 (105)
16"	59.5 (72)	24.5 (30)	12 (14.5)	6 (7)	101 (152)	92 (139)
20"	72 (86.5)	30 (36)	14.5 (17)	7 (8.5)	123 (184)	114 (171)
24"	84 (100)	35 (41)	16.5 (20)	8 (10)	144 (216)	134 (202)
30"	100 (120)	41 (50)	20 (24)	10 (12)	174 (261)	165 (247)

NOTES:
1. RESTRAINED LENGTHS LISTED IN PARENTHESES ARE FOR PIPE WRAPPED IN POLYETHYLENE. THE OTHER ASSOCIATED LENGTHS ARE FOR PLAIN UNWRAPPED DUCTILE IRON PIPE.
2. THE CONTRACTOR SHALL USE THIS TABLE IN CONJUNCTION WITH THE APPROPRIATE PIPE SPECIFICATION SECTION.

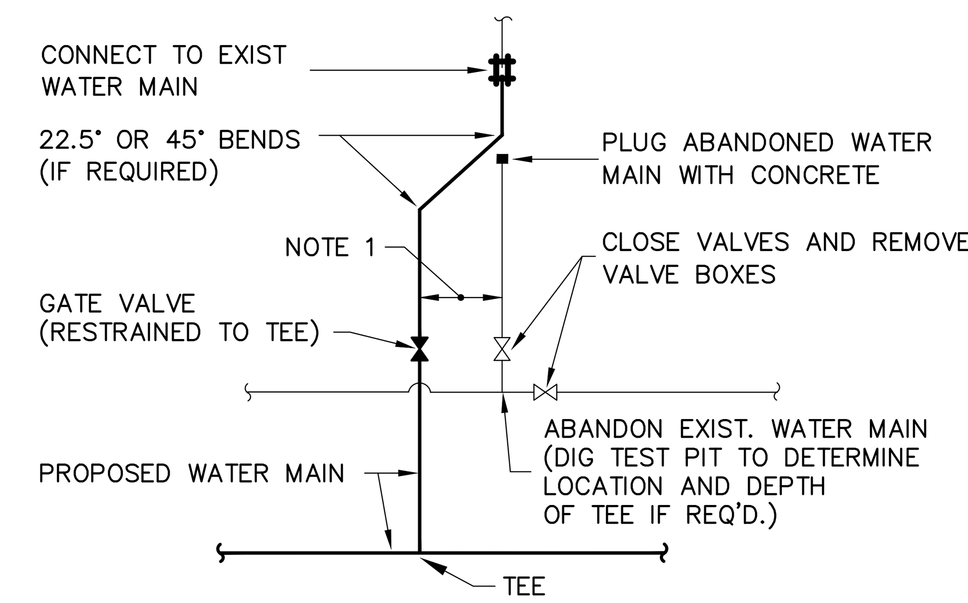


END OF MAIN DETAIL
N.T.S.



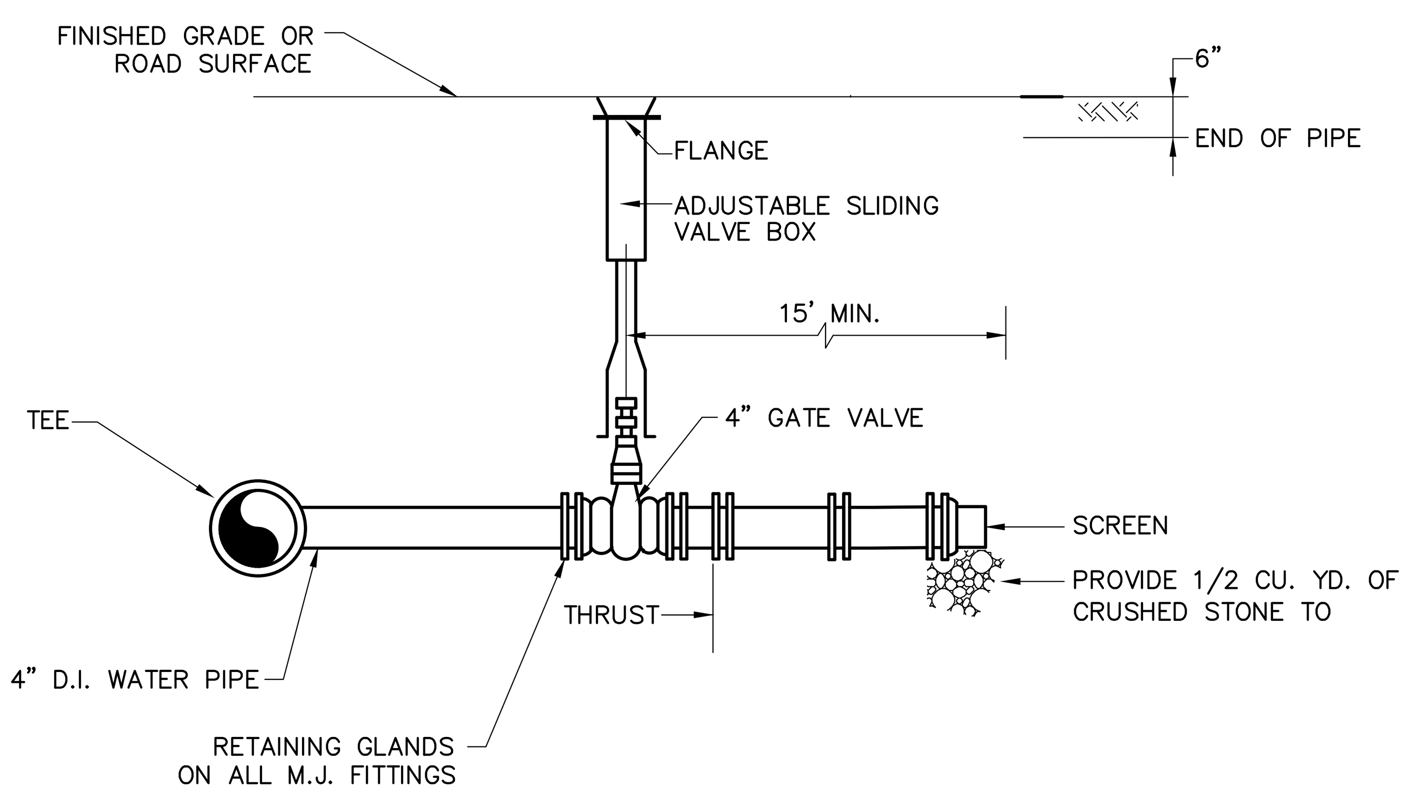
NOTE: PROVIDE SADDLE FOR ALL AC AND PVC MAINS AND ALL 2" OR LARGER STOPS

WATER SERVICE DETAIL
N.T.S.

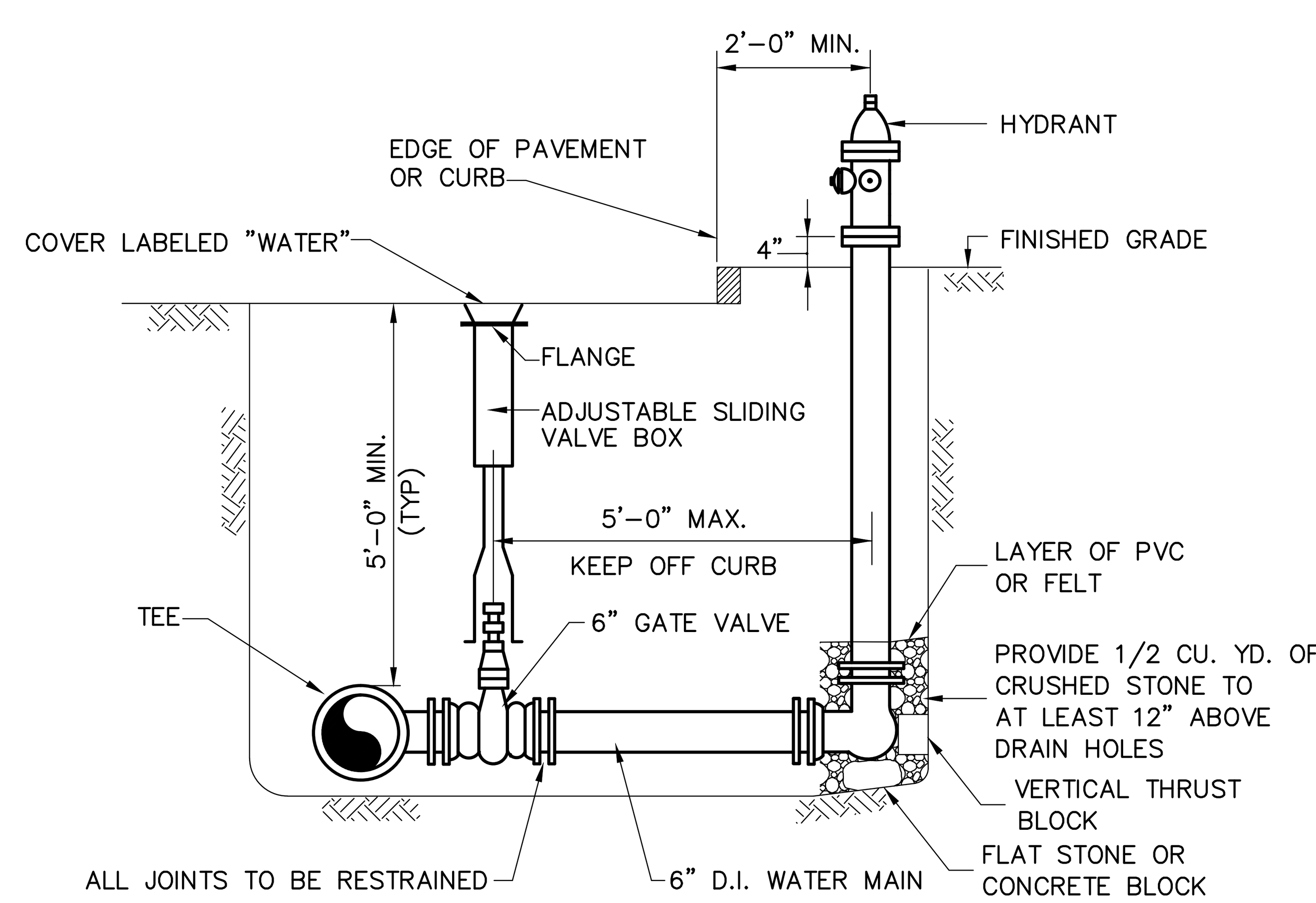


NOTE 1:
MINIMUM PRACTICAL DISTANCE – GENERALLY NO MORE THAN 2 FT.

WATER MAIN LATERAL CONNECTION
N.T.S.

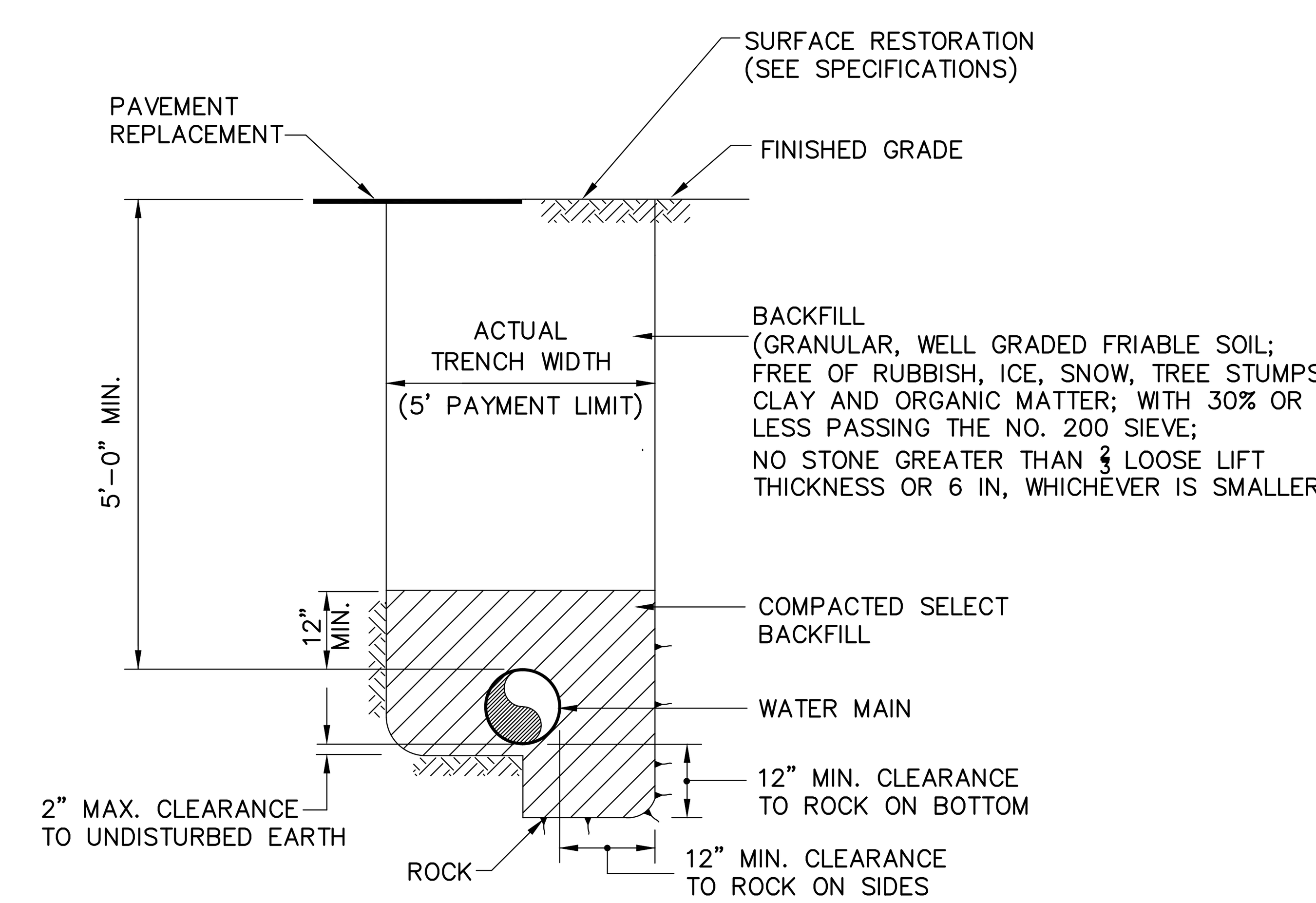


BLOW-OFF ASSEMBLY (INLINE)
N.T.S.



HYDRANT AND VALVE DETAIL
N.T.S.

NOTE: ALL VALVES AND FITTINGS SHALL BE RESTRAINED JOINTS UTILIZING RESTRAINING GLANDS (MEGALUG BY EBAA)



WATER MAIN TRENCH DETAIL
N.T.S.

NO.	REVISIONS	BY	DATE			DATE:	SUBMITTED BY: DATE:
				DES BY:	LEC	JULY 2019	APPROVED BY: DATE:
				DRN BY:	LEC		
				CHK BY:	LAS	SCALE: AS SHOWN	
				APPD BY:	ALN		

Weston & Sampson
273 Dividend Road, Rocky Hill, CT 06067
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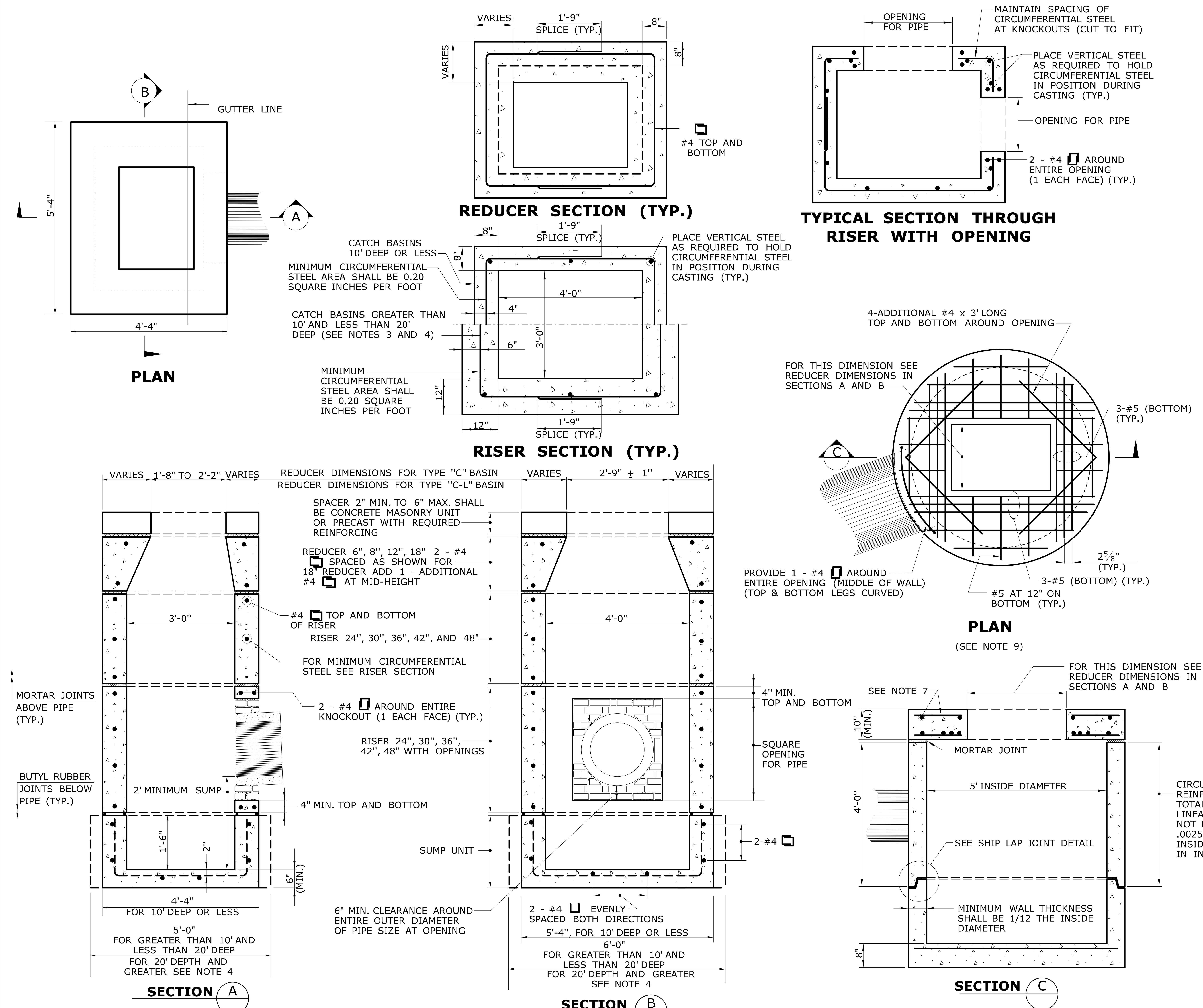
www.westonandsampson.com

TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE:
RECONSTRUCTION OF
GUERNSEYTOWN ROAD

DRAWING TITLE:
WATER DETAILS

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. DET-4
SHEET NO. 8

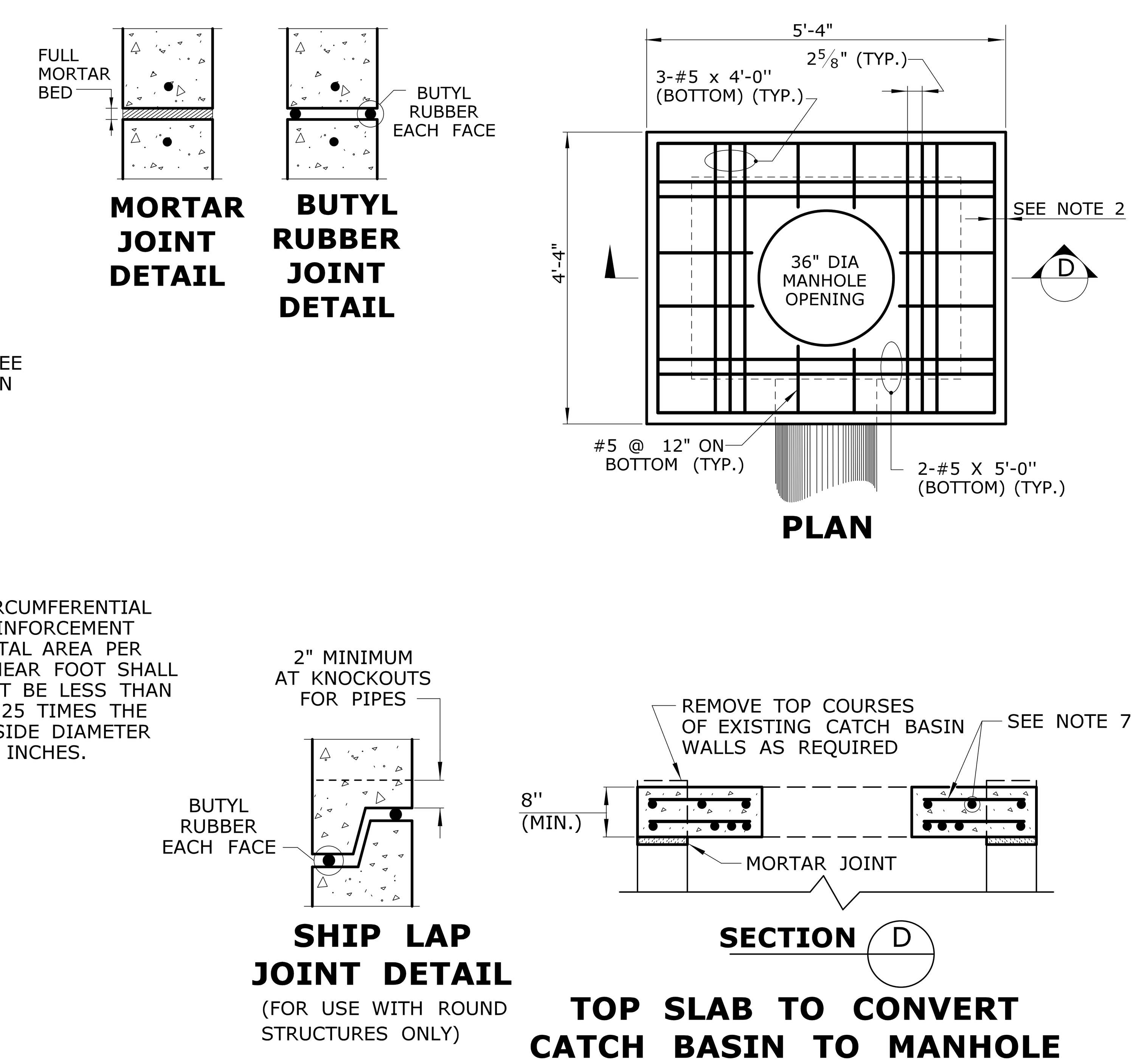


PRECAST CONCRETE TYPE "C" AND "C-L" CATCH BASIN
(UNDER 10' DEEP SHOWN)

PRECAST CONCRETE
TYPE "C" AND "C-L" ROUND STRUCTURE
(SEE NOTE 6)

GENERAL NOTES:

1. WELDED WIRE FABRIC WITH AN AREA EQUAL TO OR GREATER THAN THE REINFORCING SHOWN MAY BE SUBSTITUTED AS APPROVED BY THE ENGINEER.
2. ALL REINFORCEMENT SHALL HAVE A MINIMUM CLEAR COVER OF 2 INCHES, EXCEPT FOR BENEATH BOTTOM REINFORCEMENT IN TOP SLABS, WHERE THE MINIMUM MAY BE $1\frac{1}{2}$ INCHES.
3. WALL THICKNESS OF ALL CATCH BASINS OVER 10 FEET DEEP SHALL BE INCREASED TO 12 INCHES. INSIDE DIMENSIONS SHALL REMAIN THE SAME. THE 12 INCH THICKNESS SHALL START AFTER THE FIRST 10 FEET.
4. BASES AND RISERS AT A DEPTH OF 20 FEET AND GREATER SHALL BE DESIGNED BY THE CONTRACTOR AND WORKING DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
5. RISERS MAY BE PREFABRICATED WITH PIPE OPENINGS IN ALL FOUR WALLS. ADEQUATE REINFORCING AROUND PIPE OPENINGS SHALL BE PROVIDED. RISERS USED WHERE A PIPE OPENING IS TO REMAIN IN PLACE MUST BE FORMED UP WITH BRICK AS DIRECTED BY THE ENGINEER.
6. RISERS SHALL NEVER HAVE CORNER PIPE ENTRIES. ROUND STRUCTURES SHALL BE USED WHEN PIPES CANNOT ALIGN WITH A RECTANGULAR STRUCTURE KNOCKOUT.
7. SHRINKAGE AND TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN THE TOPS OF SLABS. THE TOTAL AREA OF REINFORCEMENT PROVIDED SHALL BE AT LEAST 0.125 SQUARE INCHES PER FOOT IN EACH DIRECTION. THE MAXIMUM SPACING OF THIS REINFORCEMENT SHALL NOT EXCEED 18 INCHES.
8. THE DETAILS SHOWN IN THE PLAN VIEW FOR PRECAST CONCRETE ROUND STRUCTURES SHALL ALSO BE USED FOR CONVERTING MANHOLES TO CATCH BASINS.
9. FOR CATCH BASIN TOPS, SEE DRAWING NO. DGS-07 FOR RECTANGULAR OPENING OR DRAWING NOS. DGS-10a,10b OR 10c FOR CIRCULAR OPENING.



TOP SLAB TO CONVERT CATCH BASIN TO MANHOLE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1.	5/19	REVISED MANHOLE DIA IN PLAN VIEW	

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.

Plotted Date: 5/1/2019

DESIGNER/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[4-17-19].dgn

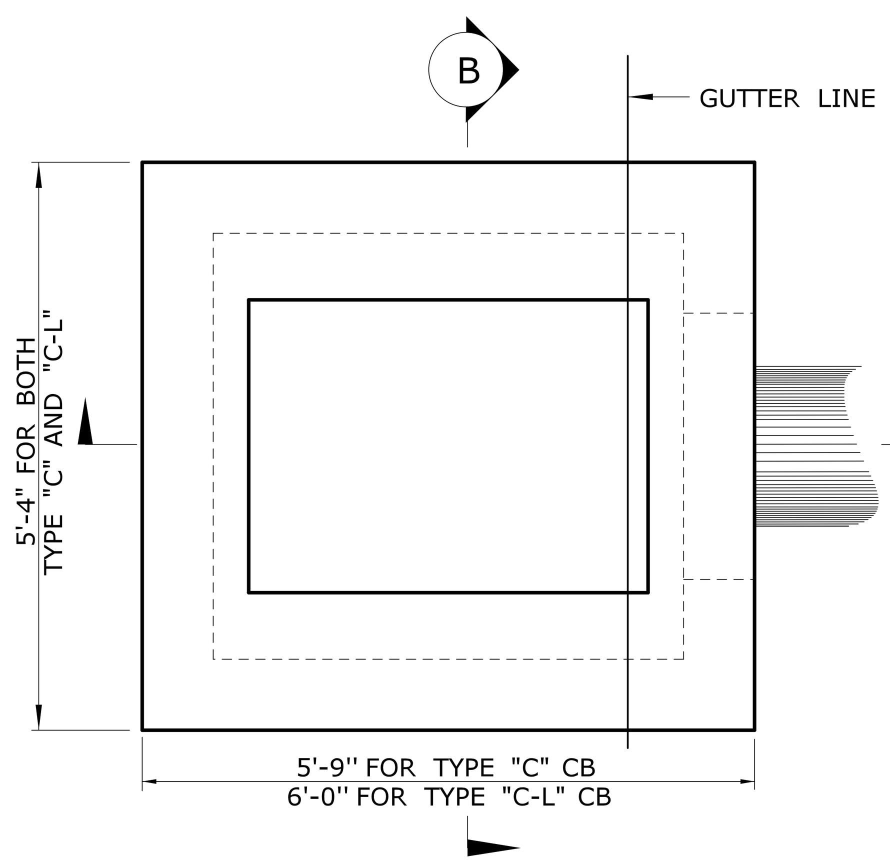
SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

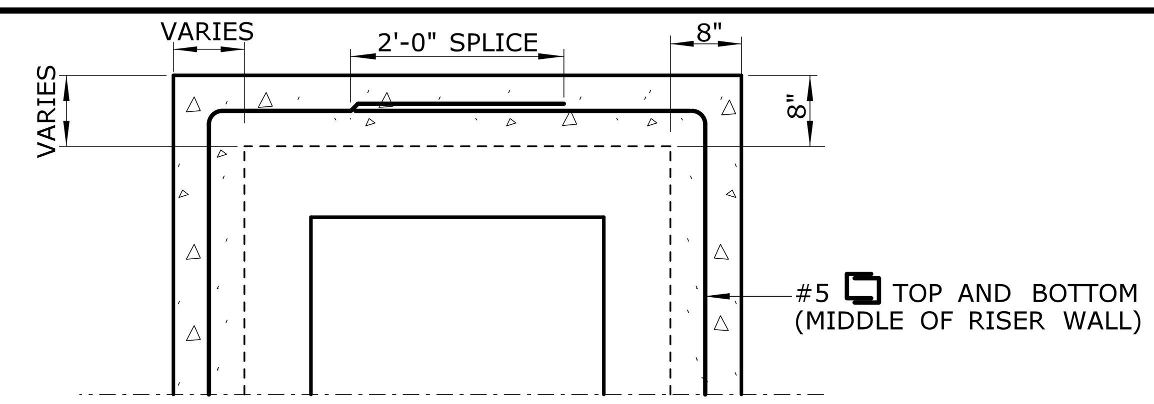
TOWN: WATERTOWN

DRAWING TITLE:
PRECAST CATCH BASIN & ROUND STRUCTURE

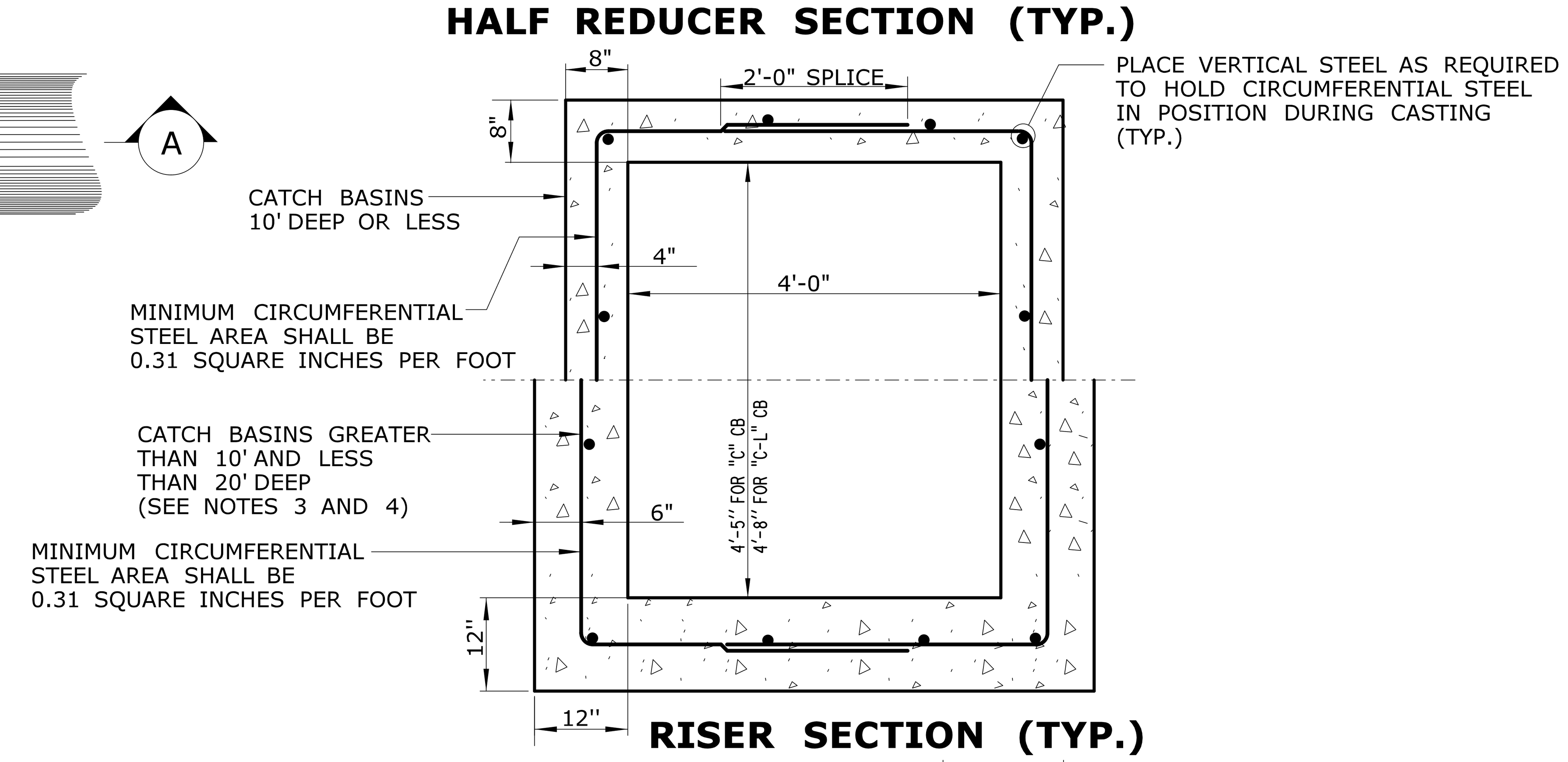
PROJECT NO. L153-003
DRAWING NO. DGS-04
SHEET NO. 9



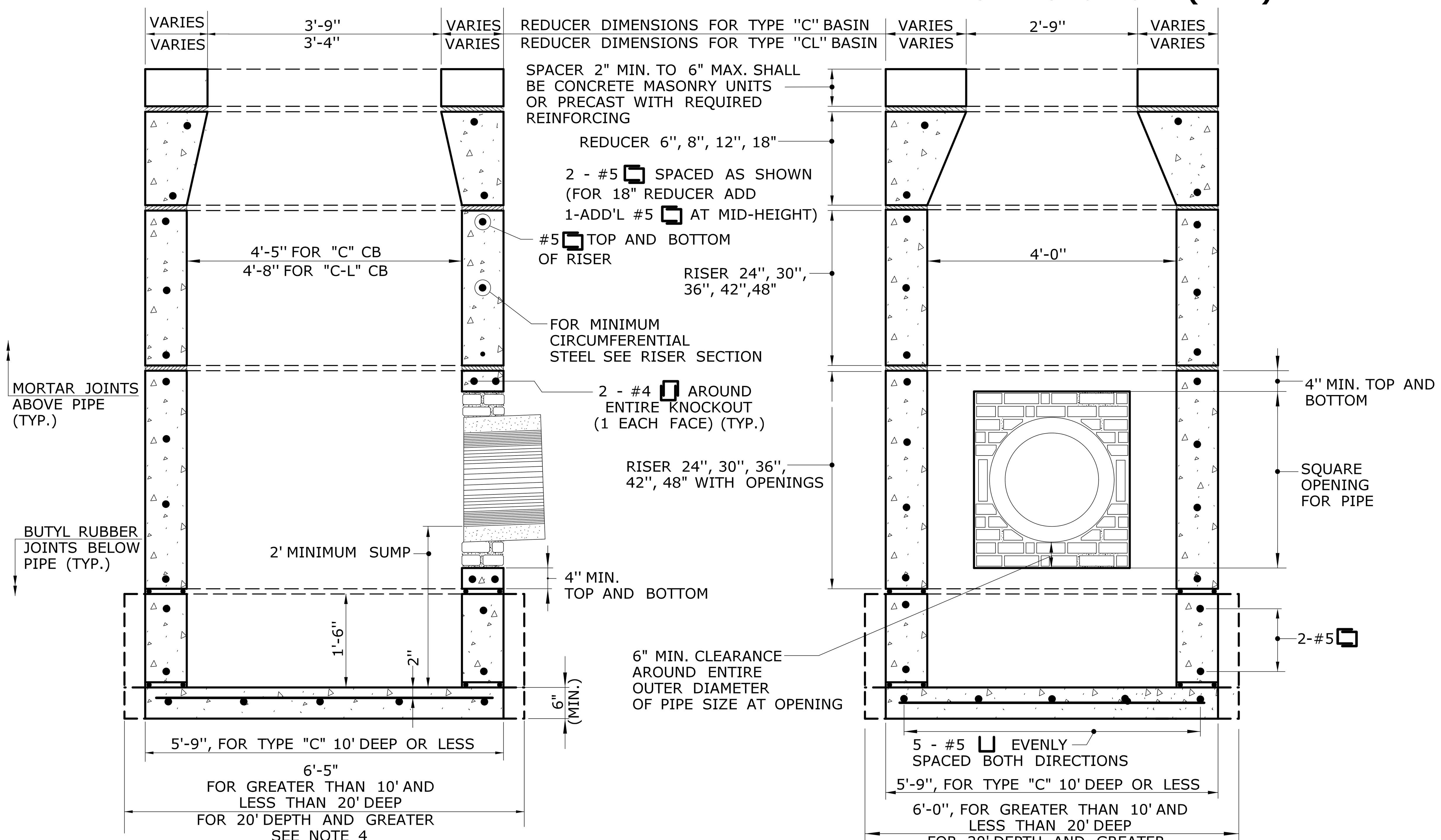
PLAN



HALF REDUCER SECTION (TYP.)



RISER SECTION (TYP.)



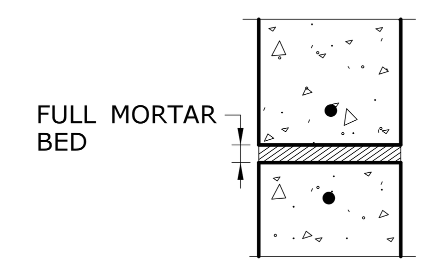
SECTION A

SECTION B

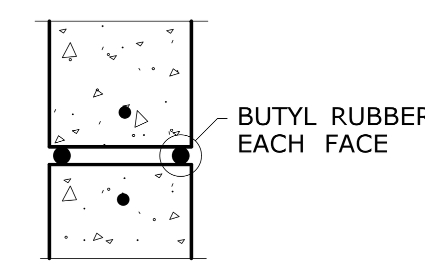
PRECAST CONCRETE TYPE "C" AND "C-L" DOUBLE GRATE TYPE I CATCH BASIN
(UNDER 10' DEEP SHOWN)

GENERAL NOTES:

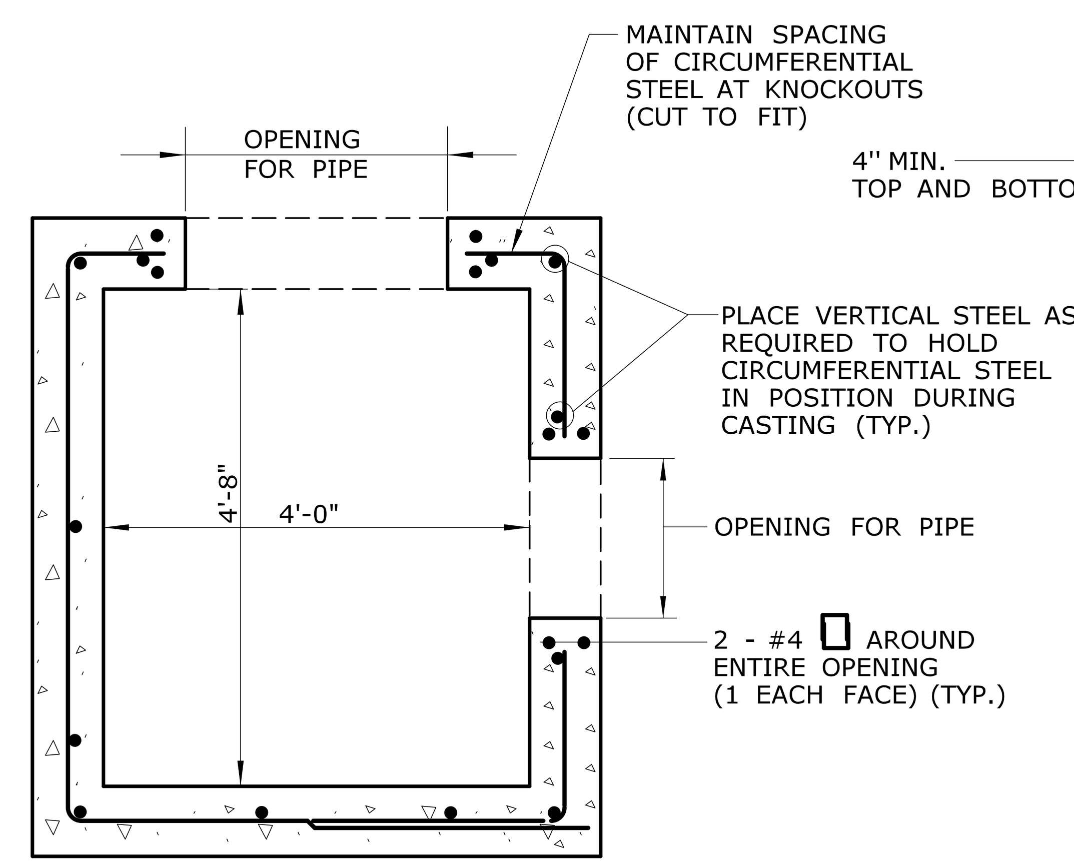
1. WELDED WIRE FABRIC WITH AN AREA EQUAL TO OR GREATER THAN THE REINFORCING SHOWN MAY BE SUBSTITUTED AS APPROVED BY THE ENGINEER.
2. ALL REINFORCEMENT SHALL HAVE A MINIMUM CLEAR COVER OF 2 INCHES, EXCEPT FOR BENEATH BOTTOM REINFORCEMENT IN TOP SLABS, WHERE THE MINIMUM MAY BE $1\frac{1}{2}$ INCHES.
3. WALL THICKNESS OF ALL CATCH BASINS OVER 10 FEET DEEP SHALL BE INCREASED TO 12 INCHES. INSIDE DIMENSIONS SHALL REMAIN THE SAME. THE 12 INCH THICKNESS SHALL START AFTER THE FIRST 10 FEET.
4. BASES AND RISERS AT A DEPTH OF 20 FEET AND GREATER SHALL BE DESIGNED BY THE CONTRACTOR AND WORKING DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
5. RISERS MAY BE PREFABRICATED WITH PIPE OPENINGS IN ALL FOUR WALLS. ADEQUATE REINFORCING AROUND PIPE OPENINGS SHALL BE PROVIDED. RISERS USED WHERE A PIPE OPENING IS TO REMAIN IN PLACE MUST BE FORMED UP WITH BRICK AS DIRECTED BY THE ENGINEER.
6. RISERS SHALL NEVER HAVE CORNER PIPE ENTRIES. ROUND STRUCTURES SHALL BE USED WHEN PIPES CANNOT ALIGN WITH A RECTANGULAR STRUCTURE KNOCK OUT.
7. FOR CATCH BASIN TOPS, SEE DRAWING NO. DGS-07.



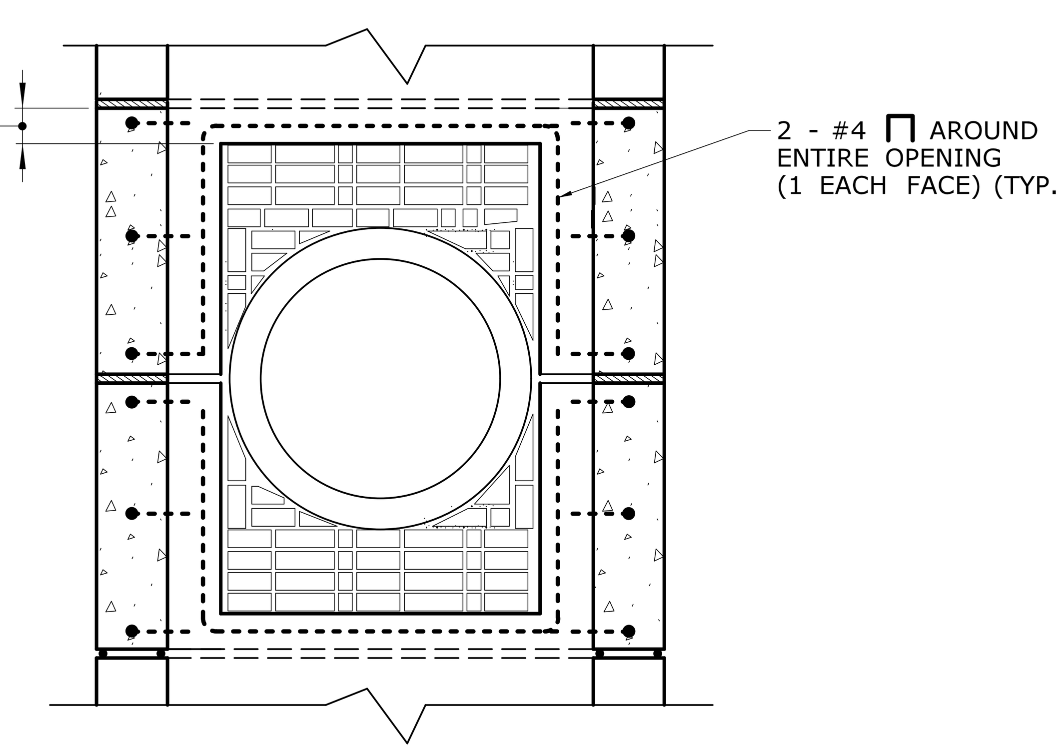
MORTAR JOINT



BUTYL RUBBER JOINT



TYPICAL SECTION THRU SINGLE RISER WITH OPENING



DOUBLE RISER OPENING (TYP.)
PIPES GREATER THAN 24" OUTSIDE DIAMETER

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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.

Plotted Date: 5/31/2019

DESIGNER/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD [5-30-19].dgn

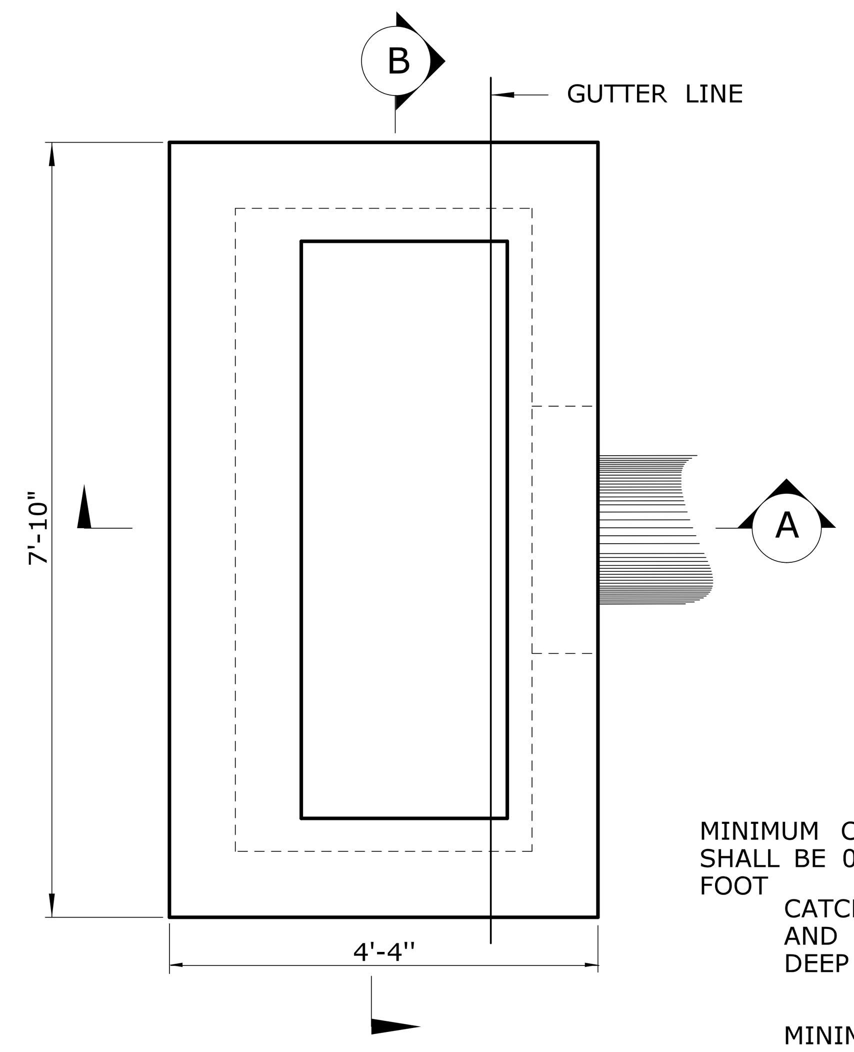
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

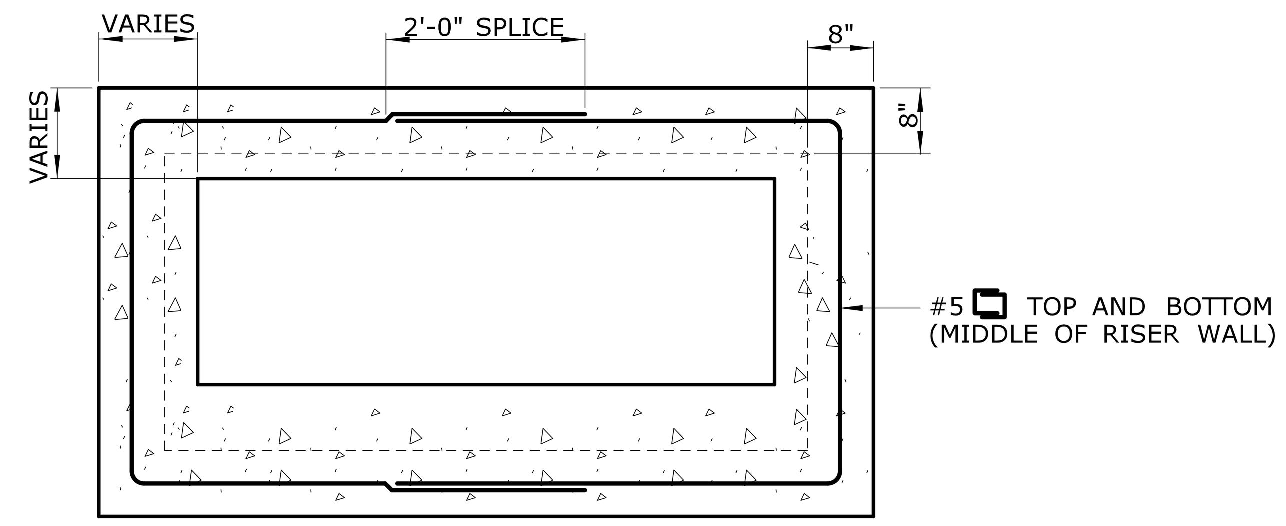
TOWN: WATERTOWN

DRAWING TITLE:
PRECAST CATCH BASIN TYPES DOUBLE GRATE I

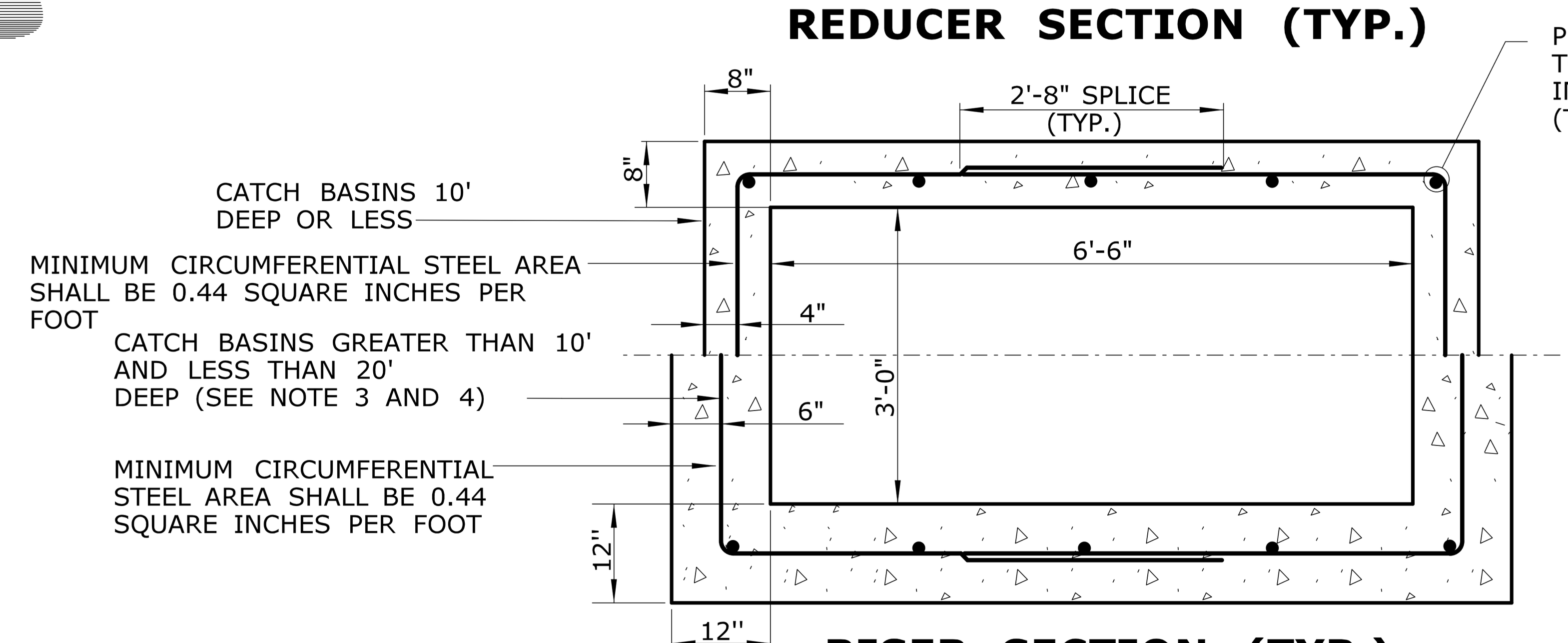
PROJECT NO. L153-003
DRAWING NO. **DGS-05**
SHEET NO. 10



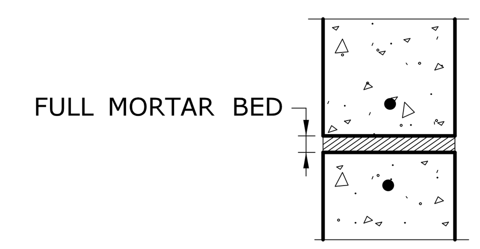
PLAN



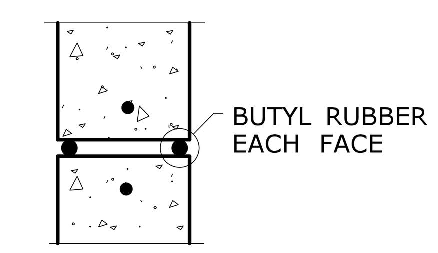
REDUCER SECTION (TYP.)



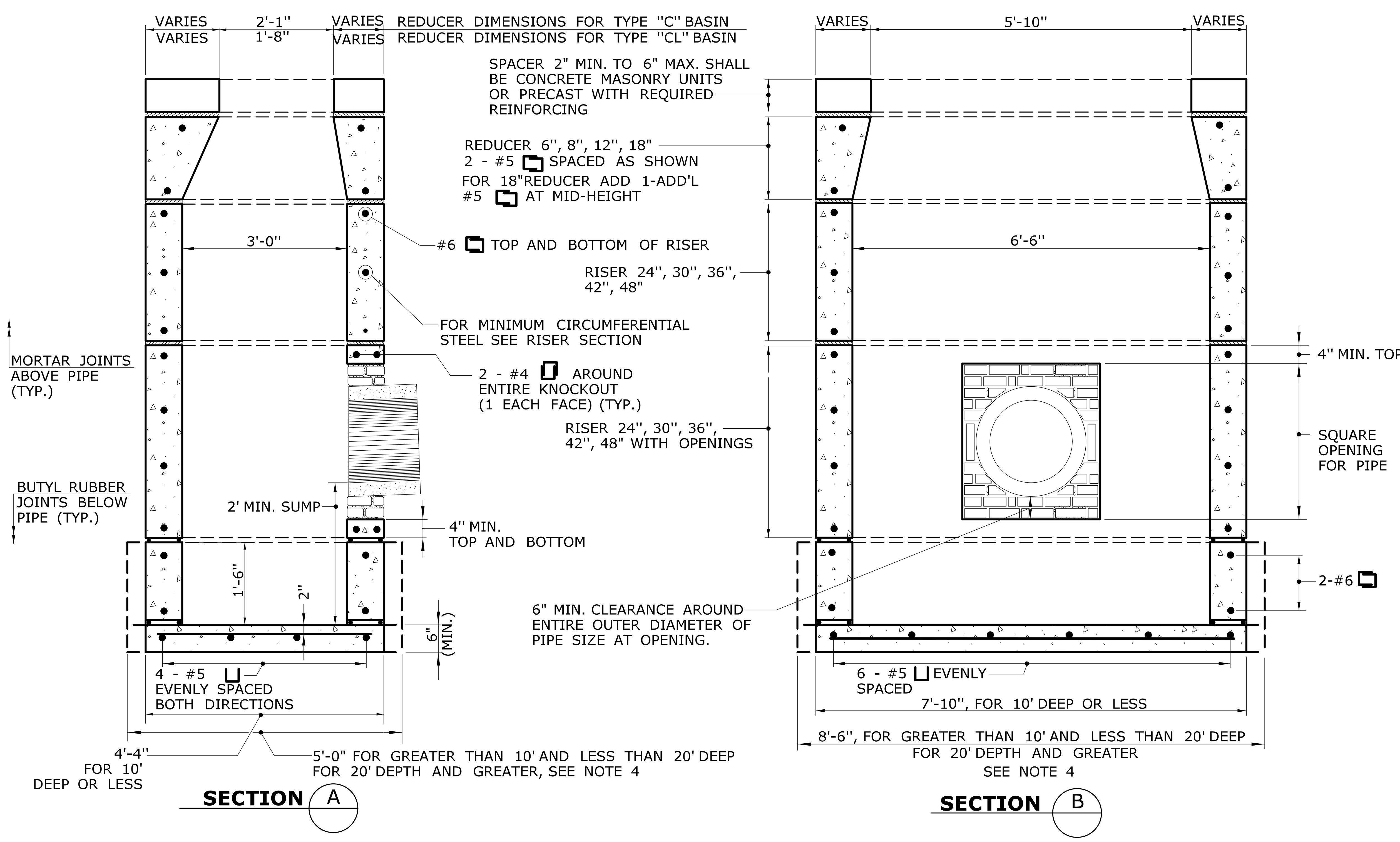
RISER SECTION (TYP.)



MORTAR JOINT



BUTYL RUBBER JOINT

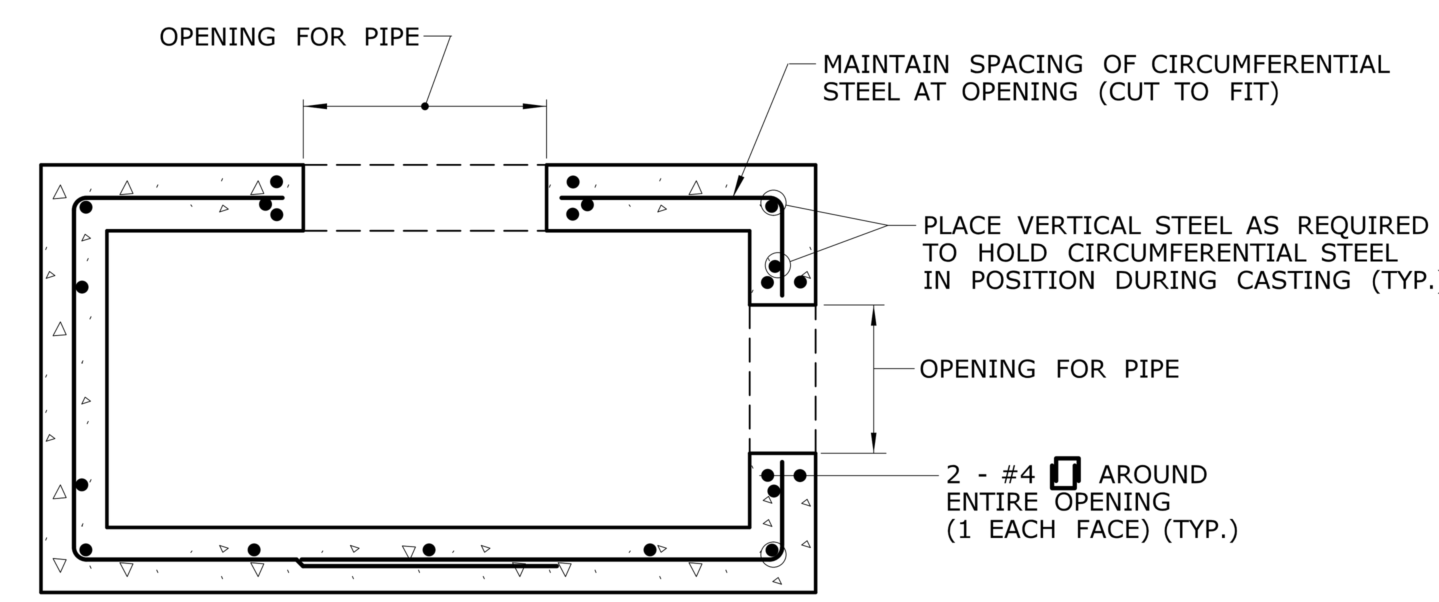


PRECAST CONCRETE TYPE "C" AND "C-L" DOUBLE GRATE TYPE II CATCH BASIN

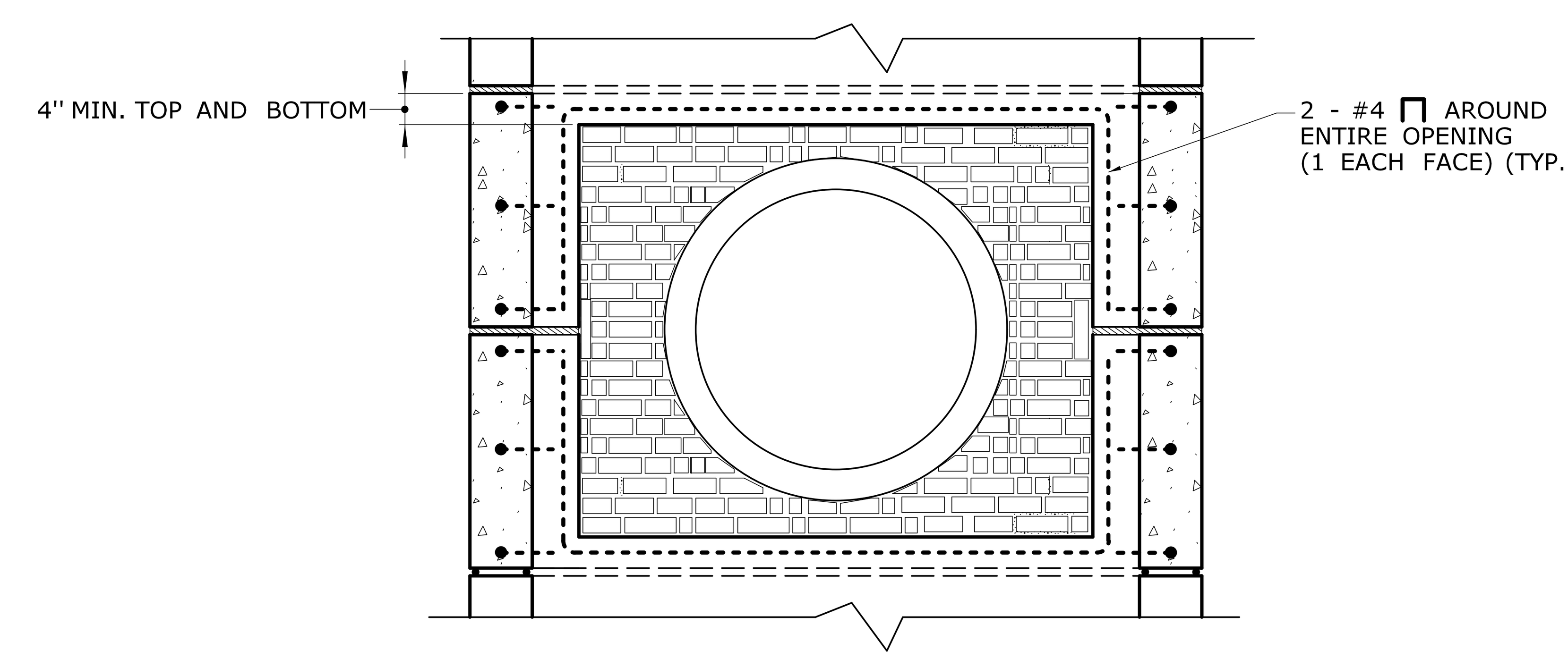
(UNDER 10' DEEP SHOWN)

GENERAL NOTES:

1. WELDED WIRE FABRIC WITH AN AREA EQUAL TO OR GREATER THAN THE REINFORCING SHOWN MAY BE SUBSTITUTED AS APPROVED BY THE ENGINEER.
2. ALL REINFORCEMENT SHALL HAVE A MINIMUM CLEAR COVER OF 2 INCHES EXCEPT FOR BENEATH BOTTOM REINFORCEMENT IN TOP SLABS, WHERE THE MINIMUM MAY BE $1\frac{1}{2}$ INCHES.
3. WALL THICKNESS OF ALL CATCH BASINS OVER 10 FEET DEEP SHALL BE INCREASED TO 12 INCHES. INSIDE DIMENSIONS SHALL REMAIN THE SAME. THE 12 INCH THICKNESS SHALL START AFTER THE FIRST 10 FEET.
4. BASES AND RISERS AT A DEPTH OF 20 FEET AND GREATER SHALL BE DESIGNED BY THE CONTRACTOR AND WORKING DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
5. RISERS MAY BE PREFABRICATED WITH PIPE OPENINGS IN ALL FOUR WALLS. ADEQUATE REINFORCING AROUND PIPE OPENINGS SHALL BE PROVIDED. RISERS USED WHERE A PIPE OPENING IS TO REMAIN IN PLACE MUST BE FORMED UP WITH BRICK AS DIRECTED BY THE ENGINEER.
6. RISERS SHALL NEVER HAVE CORNER PIPE ENTRIES. ROUND STRUCTURES SHALL BE USED WHEN PIPES CANNOT ALIGN WITH A RECTANGULAR STRUCTURE KNOCKOUT.
7. FOR CATCH BASIN TOPS, SEE DRAWING NO. DGS-07.



TYPICAL SECTION THROUGH SINGLE RISER WITH OPENINGS



DOUBLE RISER OPENING (TYP.)
PIPES GREATER THAN 24" OUTSIDE DIAMETER

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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.

Plotted Date: 5/31/2019

DESIGNER/DRAFTER: -

CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD [5-30-19].dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

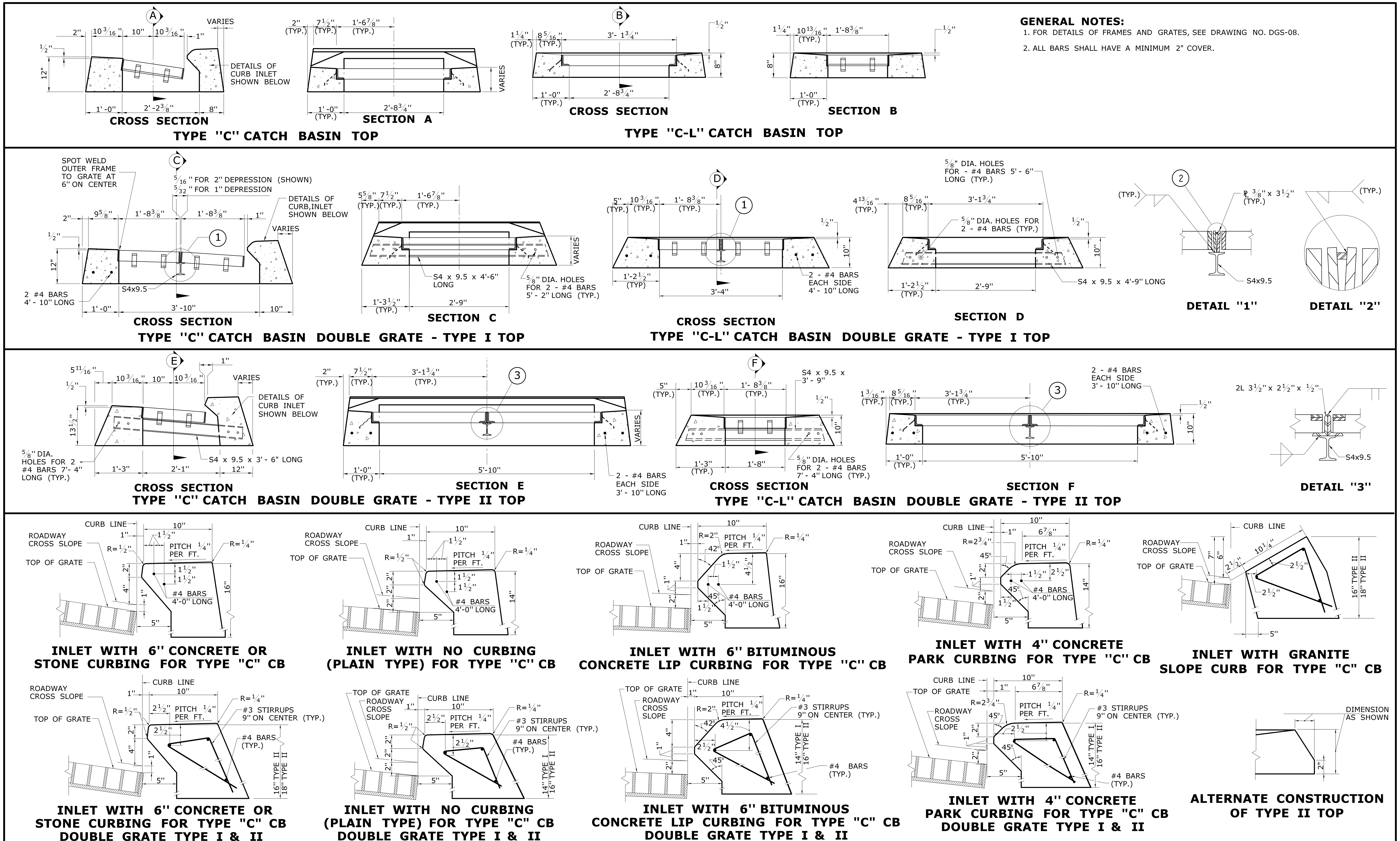
TOWN: WATERTOWN

DRAWING TITLE: PRECAST CATCH BASIN TYPES DOUBLE GRATE II

PROJECT NO. L153-003

DRAWING NO. DGS-06

SHEET NO. 11



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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.

Plotted Date: 1/30/2019

DESIGNER/DRAFTER: -

CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_HIGHWAY_GD_[1-28-19].dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

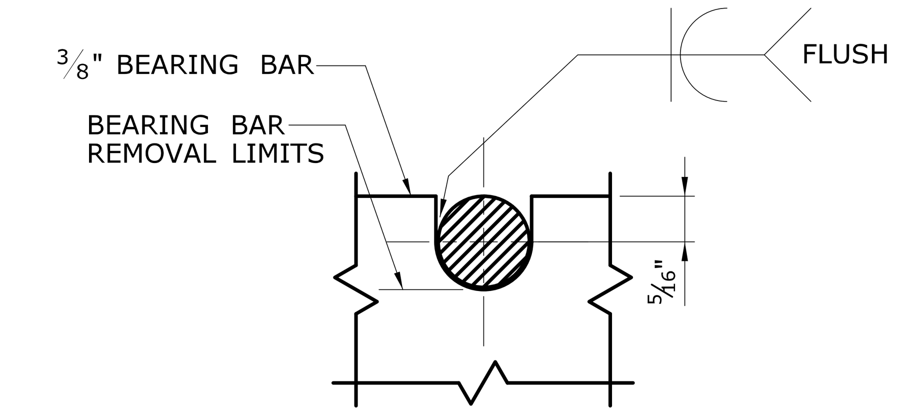
TOWN: WATERTOWN

DRAWING TITLE: CATCH BASIN TOPS TYPE "C" & "C-L"

PROJECT NO. L153-003

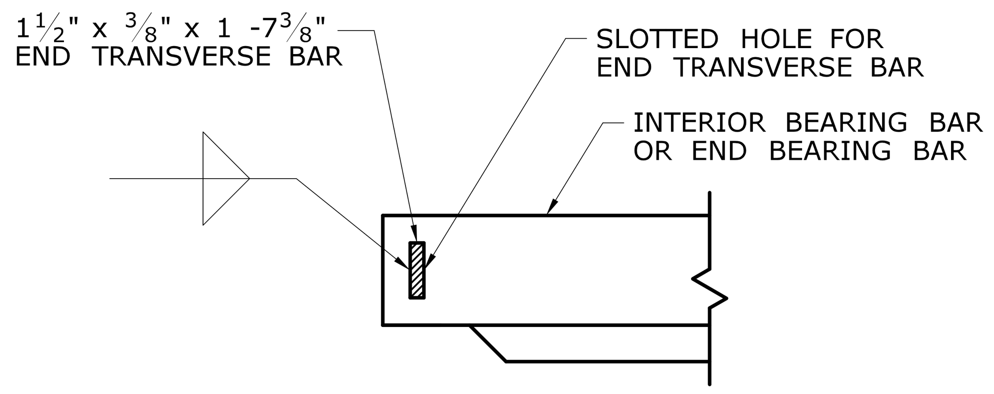
DRAWING NO. DGS-07

SHEET NO. 12

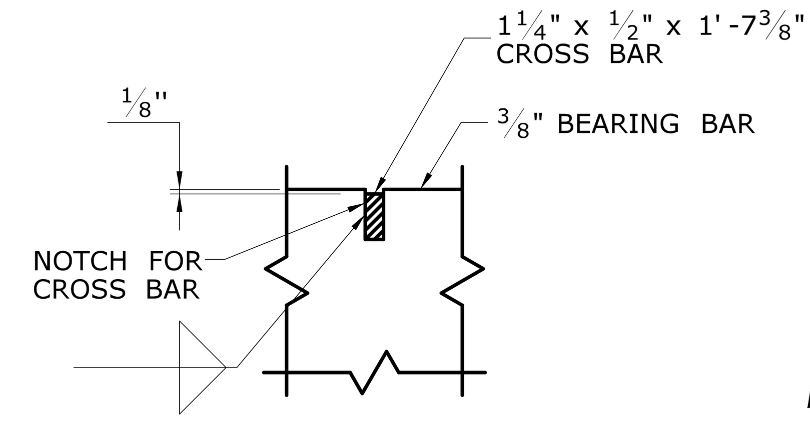


NOTE:
5/8" DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

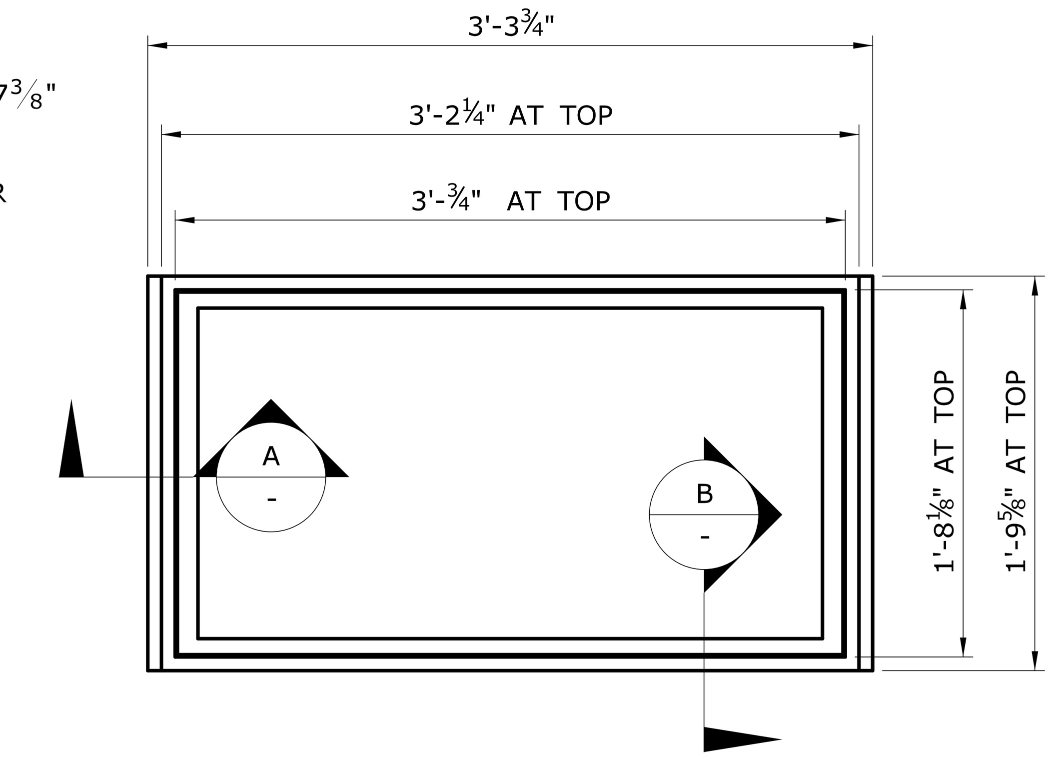
ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A



END TRANSVERSE BAR ATTACHMENT
CATCH BASIN GRATE TYPE A AND B



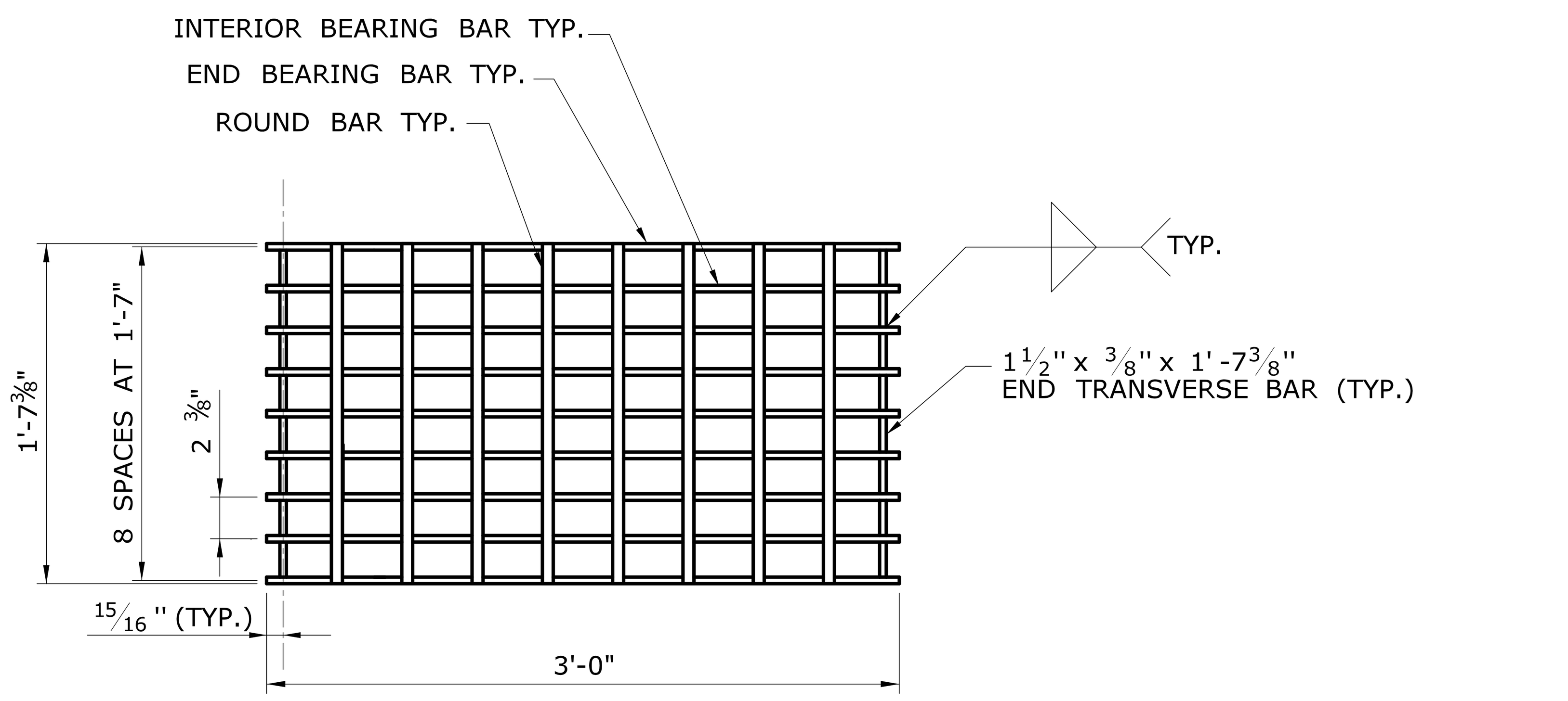
CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B



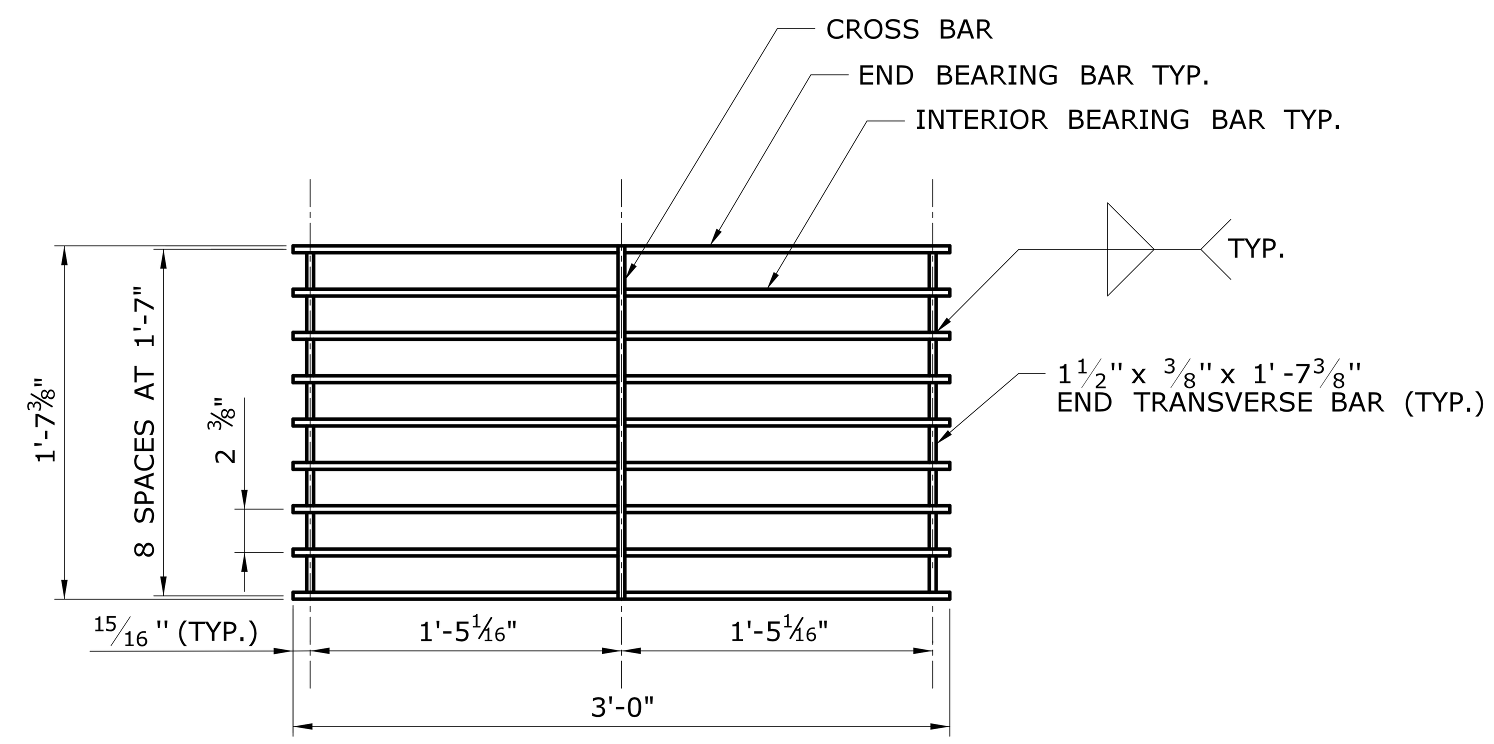
PLAN

GENERAL NOTES:

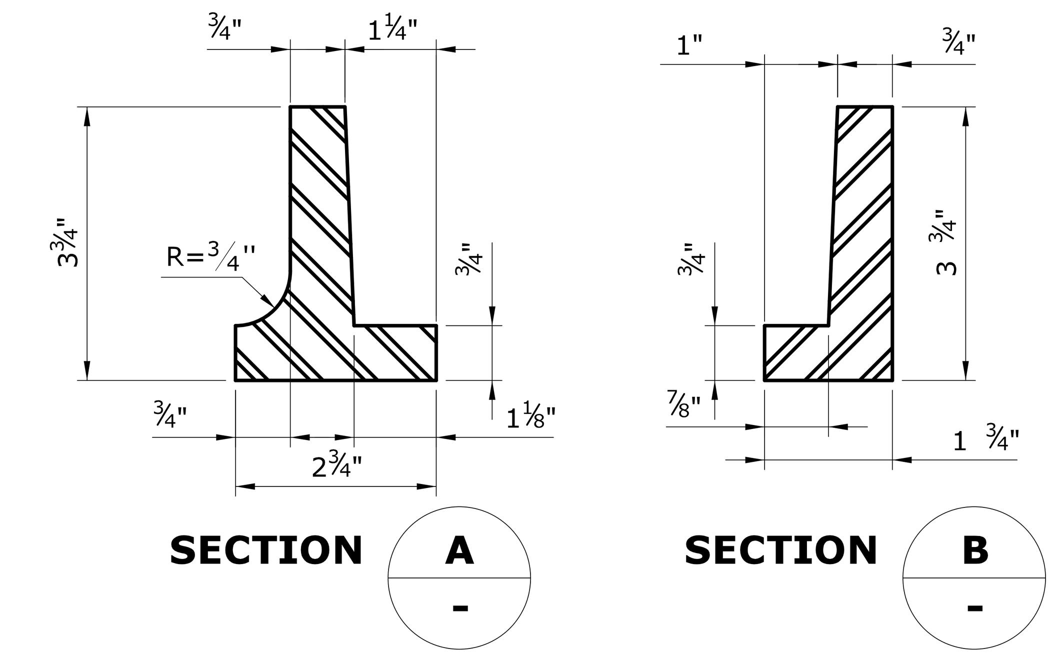
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
4. DO NOT GALVANIZE CAST IRON FRAMES.
5. DIMENSIONAL TOLERANCES SHALL BE ± 1/16 INCH.
6. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.



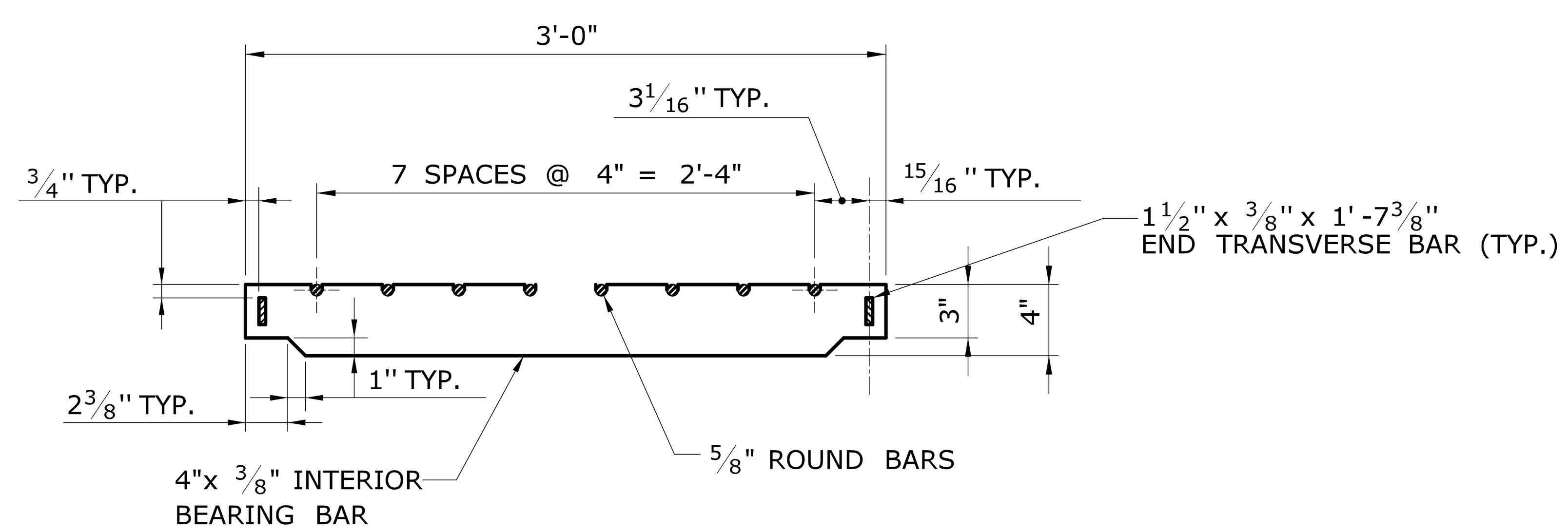
PLAN



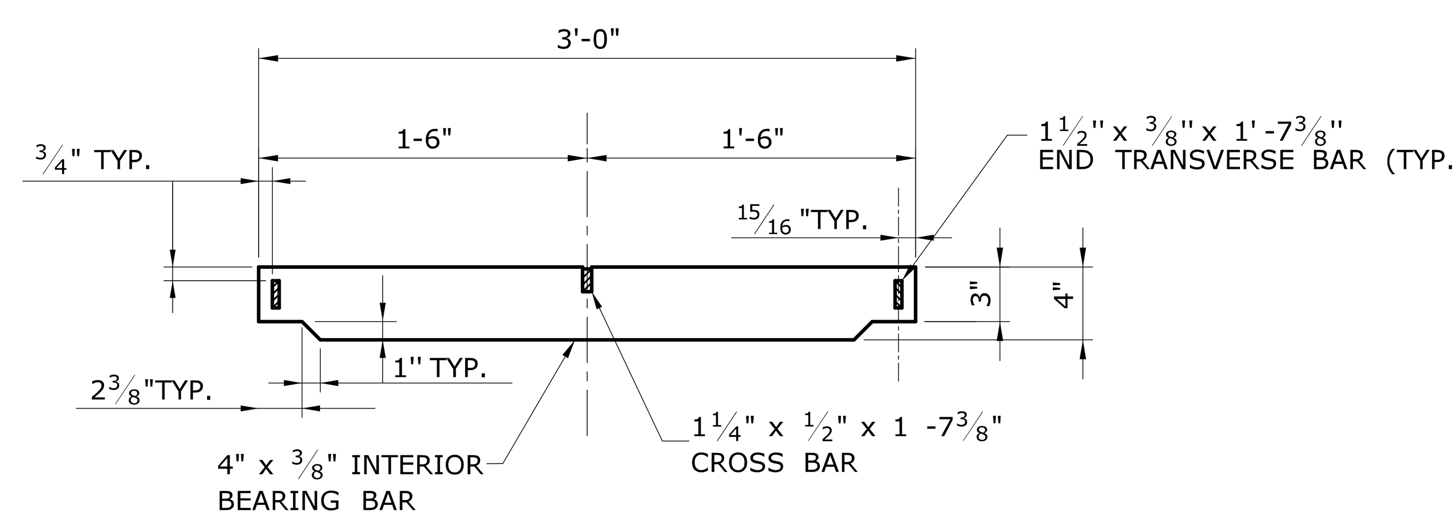
PLAN



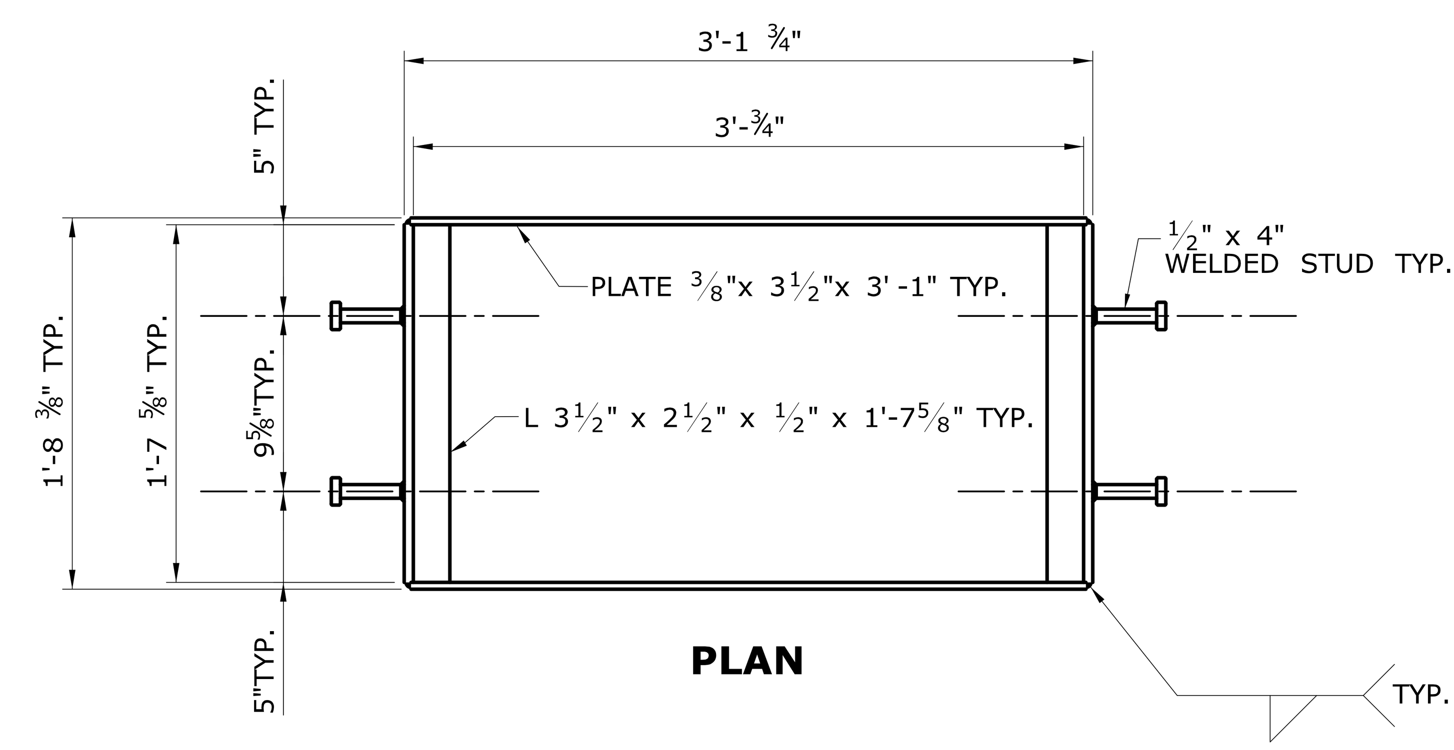
CAST IRON FRAME ALTERNATE



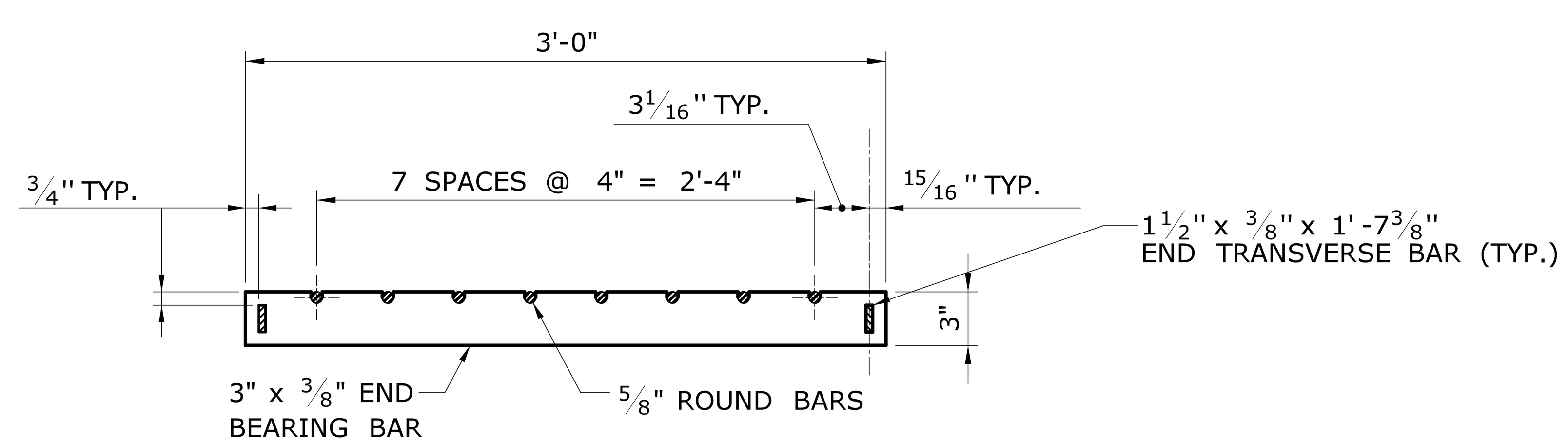
ELEVATION- INTERIOR BEARING BAR



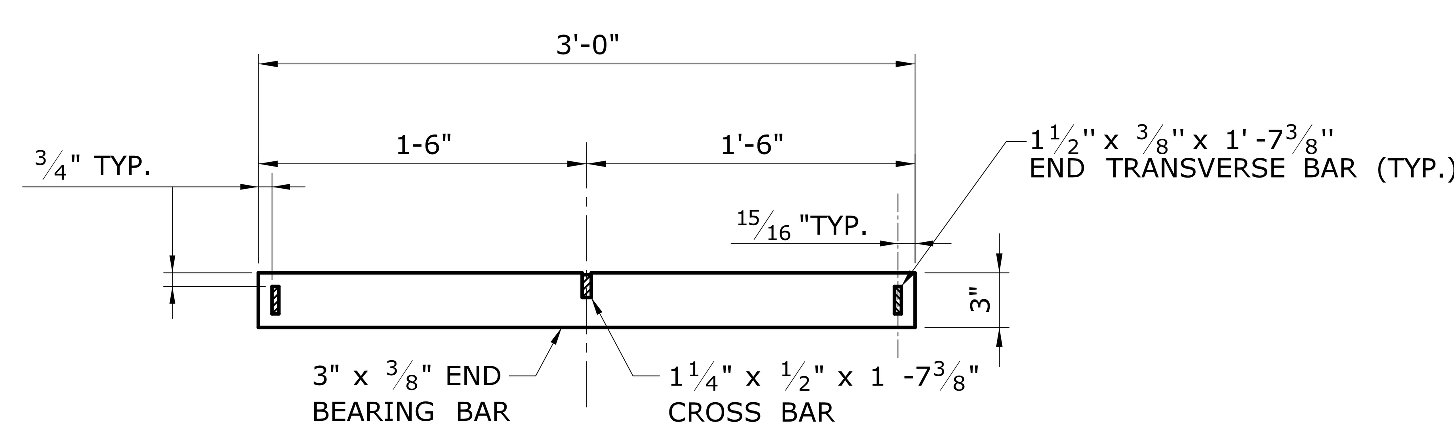
ELEVATION- INTERIOR BEARING BAR



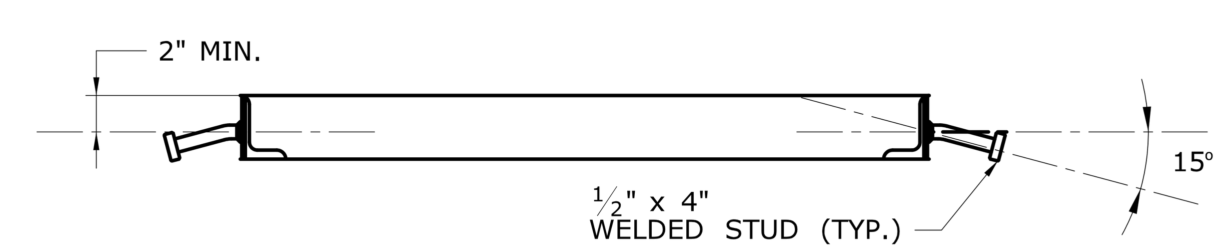
PLAN



ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE A



ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE B



WELDED STUD ANCHOR DETAILS
STEEL FRAME

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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.

Plotted Date: 11/30/2017

DESIGNER/DRAFTER: -
CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_Highway_GD (11-21-17).dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

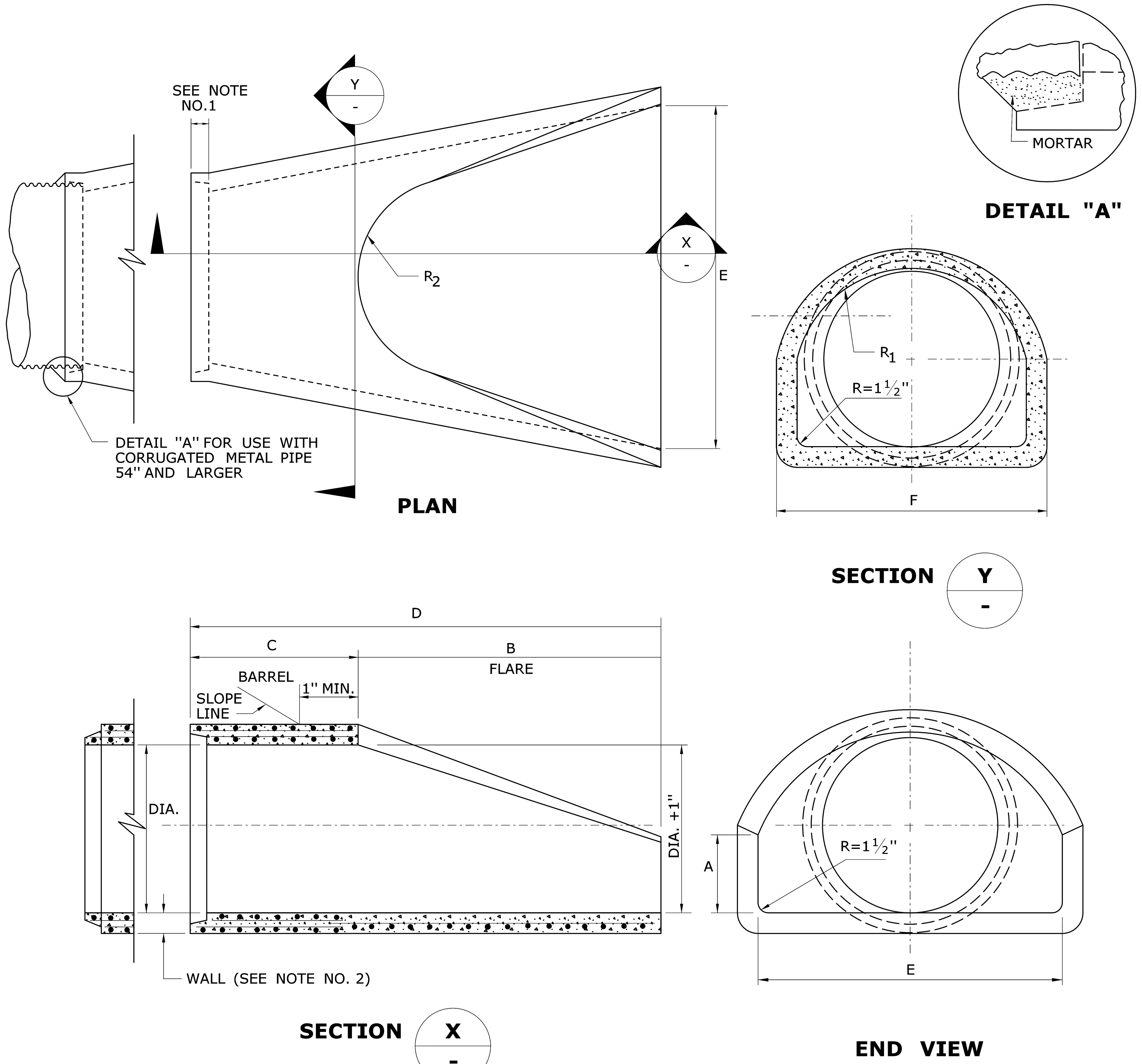
TOWN: WATERTOWN

DRAWING TITLE: **CATCH BASIN FRAMES AND GRATES**

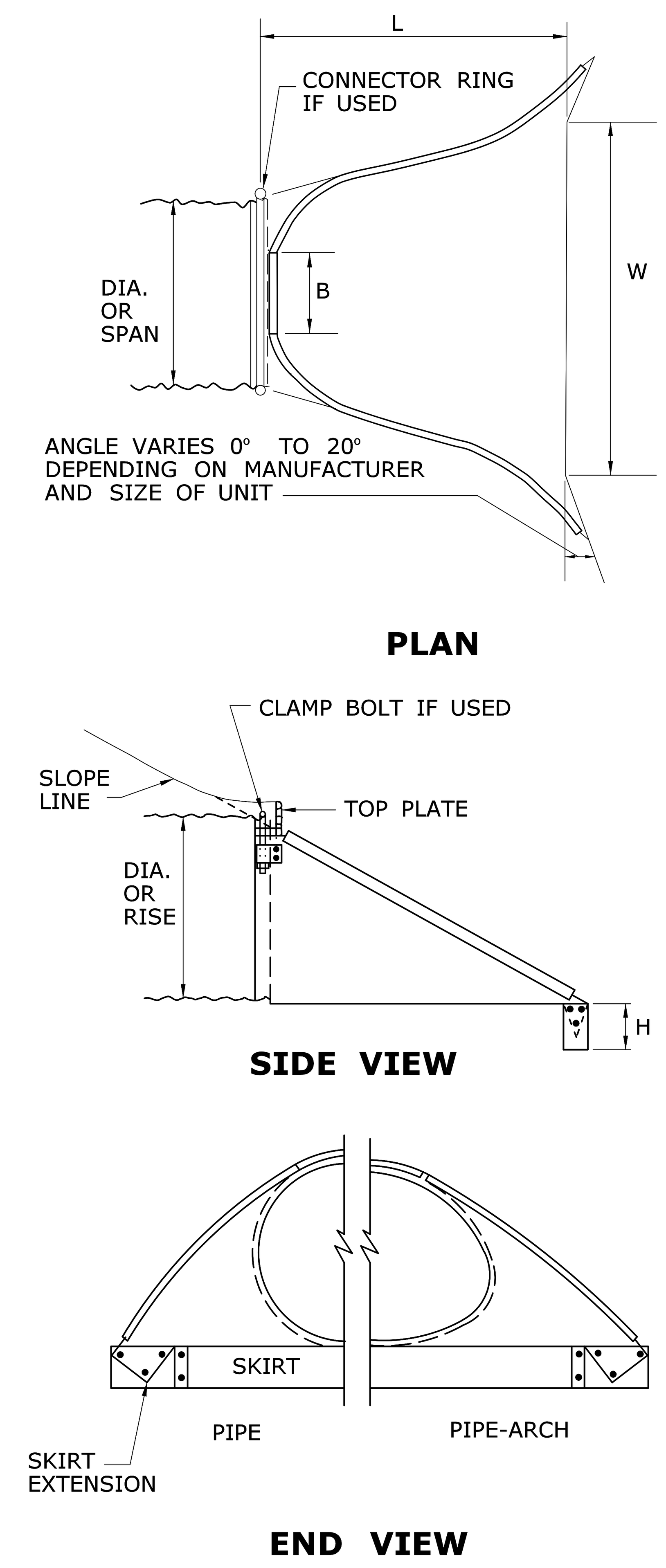
PROJECT NO. L153-003
DRAWING NO. **DGS-08**
SHEET NO. 13

GENERAL NOTES:

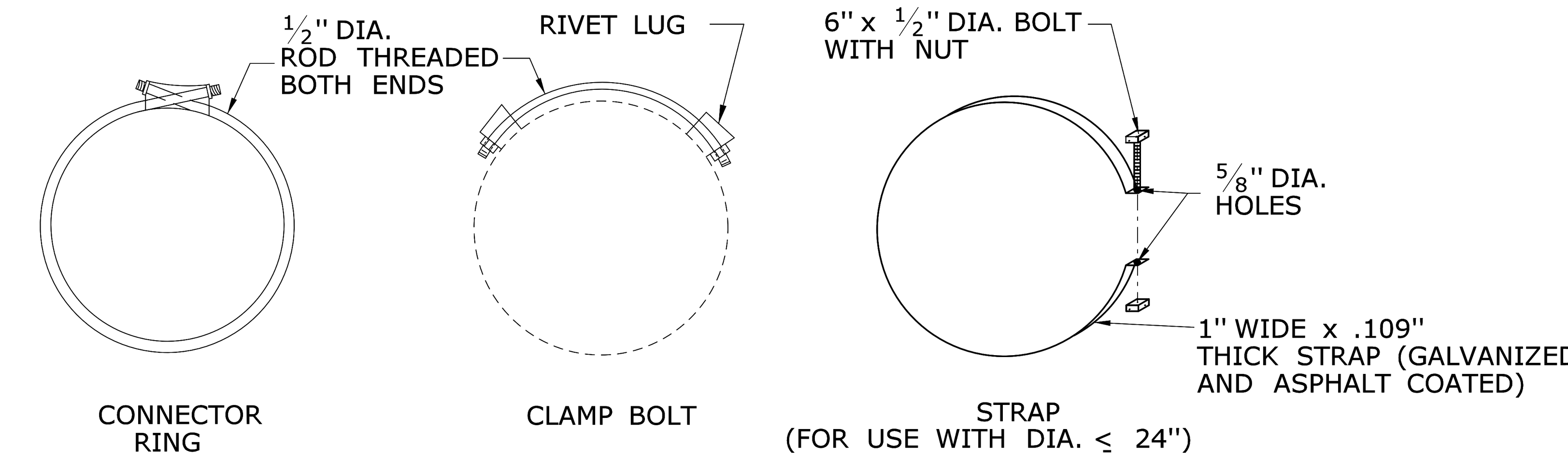
1. JOINTS SHALL BE TONGUE AND GROOVE OR BELL AND SPIGOT AS REQUIRED TO CONFORM TO PIPE INSTALLED.
2. WALL THICKNESS SHALL CONFORM TO PIPE THICKNESS.



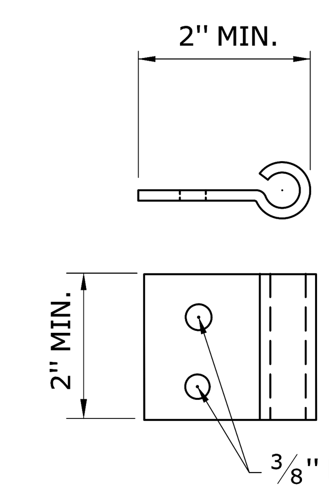
REINFORCED CONCRETE PIPE END



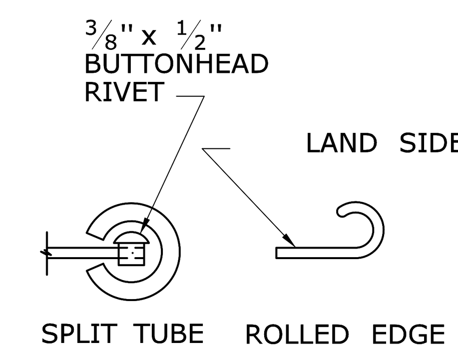
METAL PIPE END



ATTACHMENT SYSTEMS



RIVET LUG



EDGE REINFORCEMENT

DIMENSIONS FOR REINFORCED CONCRETE PIPE END									FLARE REINFORCEMENT ONE LAYER ONLY IN CENTER OF WALL	
DIA.	A	B	C	D	E	F	R_1	R_2	MIN. AREA OF LONGITUDINAL STEEL SQ. IN. PER FT.	MIN. AREA OF TRANSVERSE STEEL SQ. IN. PER FT.
12"	4"	2'-0"	4'-0⅜"	6'-0⅜"	2'-0"	1'-7 15/16"	10¼"	9"	0.048	0.048
15"	6"	2'-3"	3'-10"	6'-1"	2'-6"	2'-0 5/16"	1'-0½"	11"	0.054	0.054
18"	9"	2'-3"	3'-10"	6'-1"	3'-0"	2'-5"	1'-3½"	1'-0"	0.060	0.060
21"	9"	2'-11"	3'-2"	6'-1"	3'-6"	2'-7½"	1'-4"	1'-1"	0.066	0.066
24"	9½"	3'-7½"	2'-6"	6'-1½"	4'-0"	2'-9 3/16"	1'-4 13/16"	1'-2"	0.072	0.072
30"	1'-0"	4'-6"	1'-7¾"	6'-1¾"	5'-0"	3'-1"	1'-6½"	1'-3"	0.084	0.084
36"	1'-3"	5'-3"	2'-10¾"	8'-1¾"	6'-0"	3'-11 13/16"	2'-0 5/16"	1'-8"	0.096	0.096
42"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	4'-5⅞"	2'-3½"	1'-10"	0.108	0.108
48"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	4'-8½"	2'-4½"	1'-10"	0.120	0.120
54"	2'-3"	5'-5"	2'-11"	8'-4"	7'-6"	5'-5½"	2'-9⅛"	2'-0"	0.132	0.132
60"	2'-9"	5'-0"	3'-3"	8'-3"	8'-0"	6'-0½"	3'-0 11/16"	2'-0"	0.144	0.144

PIPE DIA.	DIMENSIONS FOR METAL PIPE END				THICKNESS INS.
	B (MAX.)	H±1"	L±1½"	W±2"	
12"	6"	6"	21"	24"	.064
15"	8"	6"	26"	30"	.064
18"	10"	6"	31"	36"	.064
21"	12"	6"	36"	42"	.064
24"	13"	6"	41"	48"	.064
30"	16"	8"	51"	60"	.079
36"	19"	9"	60"	72"	.079
42"	22"	11"	69"	84"	.109
48"	27"	12"	78"	90"	.109
54"	30"	12"	84"	102"	.109
60"	33"	12"	87"	114"	.109
66"	36"	12"	87"	120"	.109
72"	39"	12"	87"	126"	.109
78"	42"	12"	87"	132"	.109
84"	45"	12"	87"	138"	.109

PIPE ARCH SIZE		DIMENSIONS FOR METAL PIPE END				
SPAN	RISE	B (MAX.)	H±1"	L±1½"	W±2"	THICKNESS INS.
17"	13"	9"	6"	19"	30"	.064
21"	15"	10"	6"	23"	36"	.064
24"	18"	12"	6"	28"	42"	.064
28"	20"	14"	6"	32"	48"	.064
35"	24"	16"	6"	39"	60"	.079
42"	29"	18"	8"	46"	75"	.079
49"	33"	21"	9"	53"	85"	.109
57"	38"	26"	12"	63"	90"	.109
64"	43"	30"	12"	70"	102"	.109
71"	47"	33"	12"	77"	114"	.109

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER: -

CHECKED BY: -

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_Highway_GD (11-21-17).dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

TOWN: WATERTOWN

DRAWING TITLE: **PIPE ENDS**

PROJECT NO. L153-003

DRAWING NO. **DGS-13**

SHEET NO. 14

R1 - SERIES

R1-1

STOP

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.85	18	31-0532	1	.080
5.19	30	31-0552	1	.080
7.98	36	31-0553	1	.080
13.3	48	31-0557	2	.100

R1-2

YIELD

LEGEND - RED
BACKGROUND -WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.97	18	31-0520	1	.080
3.90	36	31-0523	1	.080
6.77	48	31-0522	2	.100
10.83	60	31-0528	2	.100

R1-3P

ALL-WAY

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	31-0508		.080

R2 - SERIES

R2-1

SPEED LIMIT 00

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-5505	1	.080
7.50	30X36	31-5504	1	.080
12.00	36X48	31-5506	2	.100
20.00	48X60	31-5507	2	.100

R2-4a

SPEED LIMIT 00 MINIMUM 00

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
32	48X96	31-5510	2	.125

R3 - SERIES

R3-1

LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1604	1	.080
9.00	36X36	31-1627	2	.080

R3-2

LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1603	1	.080
9.00	36X36	31-1629	2	.080

R3-3

NO TURNS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1648	1	.080
9.00	36X36	31-1647	2	.080

R3-4

LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1622	1	.080
9.00	36X36	31-1632	2	.080

R3-5

ONLY ONLY

31-0183 31-0184

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36		1	.080

R3-6

31-0157 31-0158

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36		1	.080

R3-7

LEFT LANE MUST TURN LEFT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0117	1	.080
9.00	36X36	31-0120	2	.080

R3-7

RIGHT LANE MUST TURN RIGHT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0118	1	.080
9.00	36X36	31-0123	2	.080

R3-6

ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0175	1	.080

R3-8

ONLY ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30	31-0290	1	.080

R3-8

ONLY ONLY

31-0222 31-0223

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30		1	.080

R3-8

ONLY ONLY

31-0262 31-0261

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30		1	.080

R3-8

ONLY ONLY

31-0282 31-0283

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

R3-8

ONLY

31-0295 31-0219

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

R3-8

ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0279	2	.100

R3-8b

ONLY ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	31-0302	2	.100

R3-8b

ONLY ONLY

31-0307 31-0372

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30		2	.100

R3-8b

ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0334	2	.100

R3-8b

ONLY ONLY

31-0370 31-0371

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30		2	.100

R4 - SERIES

R4-1

DO NOT PASS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1502	1	.080

R4-16

KEEP RIGHT EXCEPT TO PASS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-1574	2	.100

R4-3

SLOWER TRAFFIC KEEP RIGHT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1562	1	.080
20.00	48X60	31-1564	2	.100

R4-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1526	1	.080
12.00	36X48	31-1536	2	.100
20.00	48X60	31-1546	2	.100

R5 - SERIES

R5-1

DO NOT ENTER

LEGEND - WHITE
BACKGROUND - WHITE
CIRCLE - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-1119	1	.080
9.00	36X36	31-1120	2	.080
16.00	48X48	31-1121	2	.100

R5-10a(CT)

NO PEDESTRIANS BICYCLES MOTOR BIKES MOTOR SCOOTERS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36X36	31-1775	2	.100

R5-1a

WRONG WAY

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	36X24	31-1122	2	.080
8.75	42X30	31-1123	2	.100

R5-11

AUTHORIZED VEHICLES ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	31-1790	1	.080
20.00	48X36	31-1792	2	.100

R5-10a(CT)

PROHIBITED
VEH OVER 8FT HIGH
TRAILERS
COMMERCIAL VEH

LEGEND - BLACK
TOP SECTION BACKGROUND - YELLOW
BOTTON SECTION BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
32.50	60X78	31-1719	2	.125

R5-10c

NO PEDESTRIANS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	31-1774	1	.080

R6 - SERIES

R6-1

ONE WAY

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

R6-1

ONE WAY

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 - SERIES

R7-1

NO PARKING ANY TIME

(R) (D) (L)

LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0630	1	.080

R7-2a

NO PARKING 0:00 AM TO 0:00 PM

VARIABLE TIMES
(R) (D) (L)

LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0603	1	.080

R8 - SERIES

R8-7

EMERGENCY STOPPING ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
12.00	48X36	31-0670	2	.100

R9 - SERIES

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

R9-3a

NO PEDESTRIAN CROSSING

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-1702	1	.080

R10 - SERIES

R10-6

STOP HERE ON RED   STOP HERE ON RED

31-0801 31-0802

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	24X36		1	.080

R10-7

DO NOT BLOCK INTERSECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0806	1	.080

R10-11b

NO TURN ON RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36X36	31-0816	2	.080

R10-10L

LEFT TURN SIGNAL

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0852	1	.080

R10-11a

NO TURN ON RED

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

R10-11c(CT)

RIGHT TURN ON RED FROM RIGHT LANE ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0847	1	.080

R11 - SERIES

R11-1

KEEP OFF MEDIAN

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

RETROREFLECTIVE STRIP

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

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	SHEET NO.
3	12-2018	REVISED RETROREFLECTIVE STRIPS	TR-GS_01
2	10-2018	REVISED R5-11 SIGNS PER MUTCD	TR-GS_01
1	6-2018	NEW SHEET ISSUED	TR-GS_01

Plotted Date: 1/16/2019

DESIGNER/DRAFTER: A. MERMELSTEIN
CHECKED BY: B. SCHILLING

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_TRAFFIC_GS.dgn

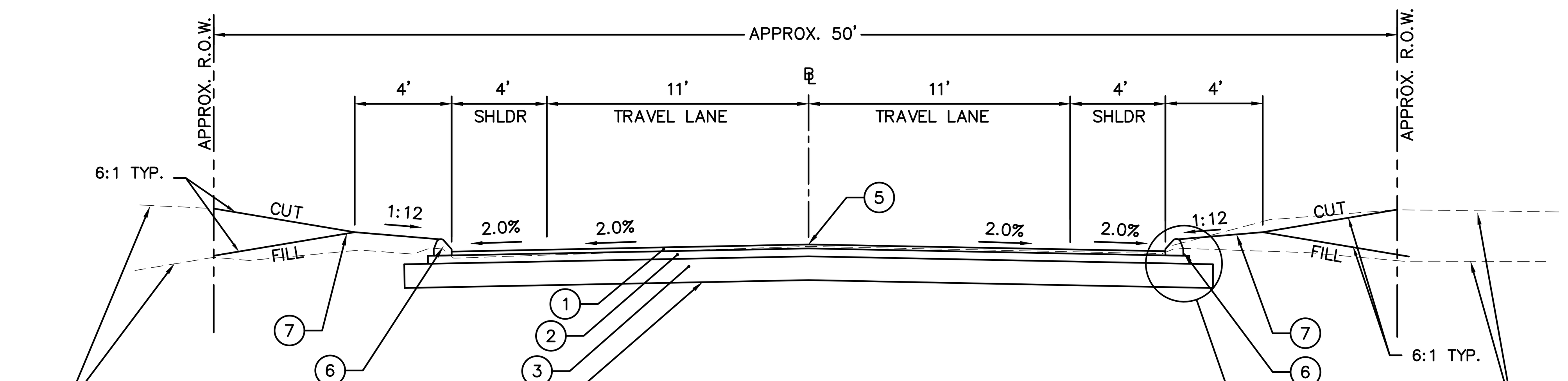
SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

TOWN: WATERTOWN

DRAWING TITLE: SIGN FACE SHEET ALUMINUM R-SERIES TYPICAL SIGN DETAILS

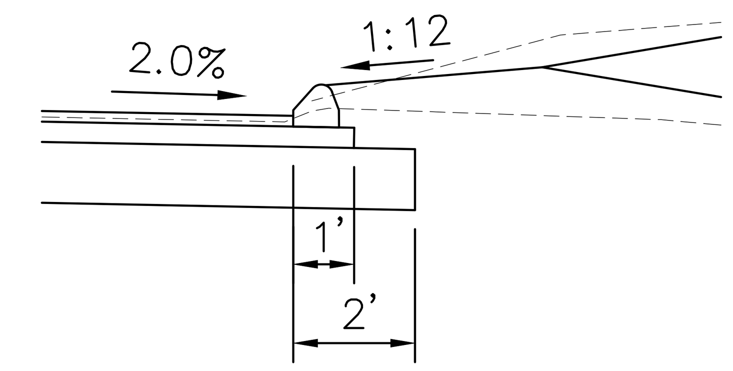
PROJECT NO. L153-003
DRAWING NO. TR-GS_01
SHEET NO. 15



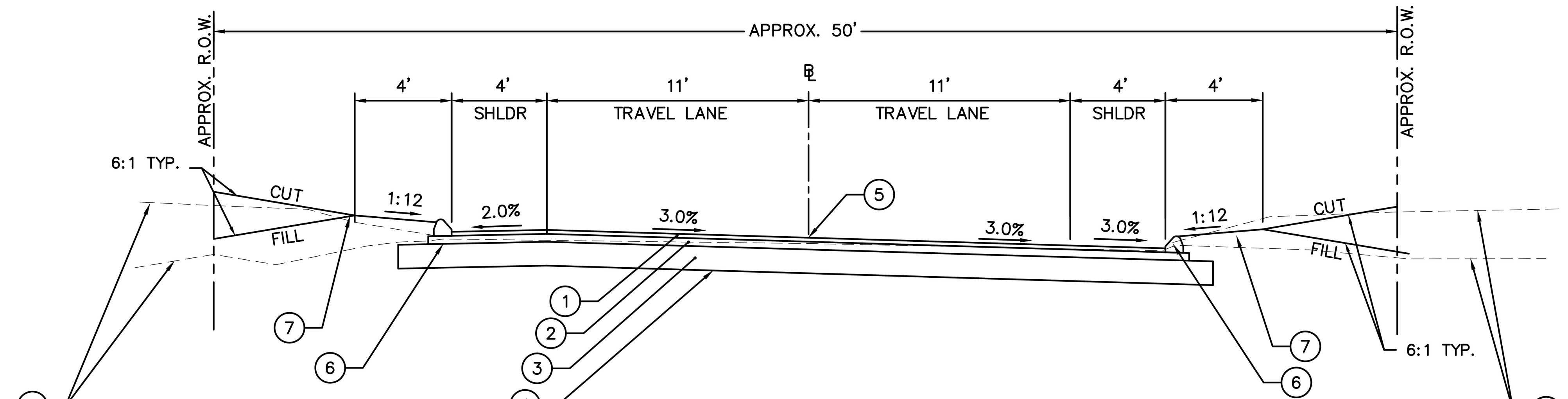
GUERNSEYTOWN ROAD
STA 3+00 TO STA 3+10.23
STA 21.44.34 TO STA 23+98.56
STA 27+63.52 TO STA 28+94.87
STA 32+00.49 TO STA 36+68

SCALE: 1"=4'

SEE CROSS SECTIONS FOR DETAILS



ENLARGED DETAIL
(TYPICAL)
NOT TO SCALE



GUERNSEYTOWN ROAD
STA 24+95± TO STA 26+67±
SUPERELEVATION

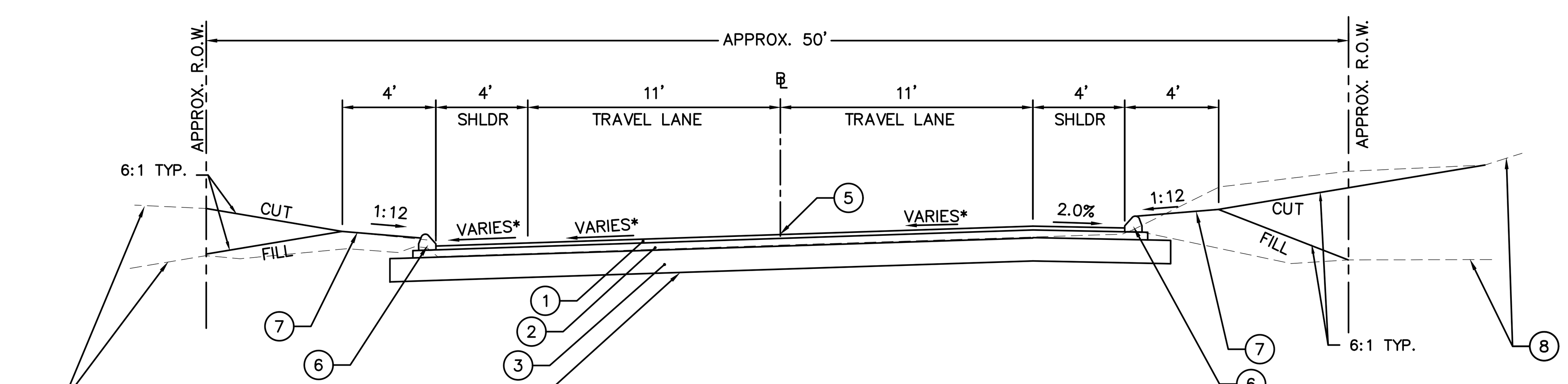
SCALE: 1"=4'

SEE CROSS SECTIONS FOR DETAILS

LEGEND

1 – 2" HMA S0.375 TRAFFIC LEVEL 2
2 – 4" HMA S0.5 TRAFFIC LEVEL 2
3 – 12" PROCESSED AGGREGATE BASE
4 – COMPACTED SUBGRADE
5 – POINT OF APPLICATION OF GRADE
6 – 6" BITUMINOUS CONCRETE LIP CURBING
7 – 5" TOPSOIL AND TURF ESTABLISHMENT
8 – EXISTING GRADE

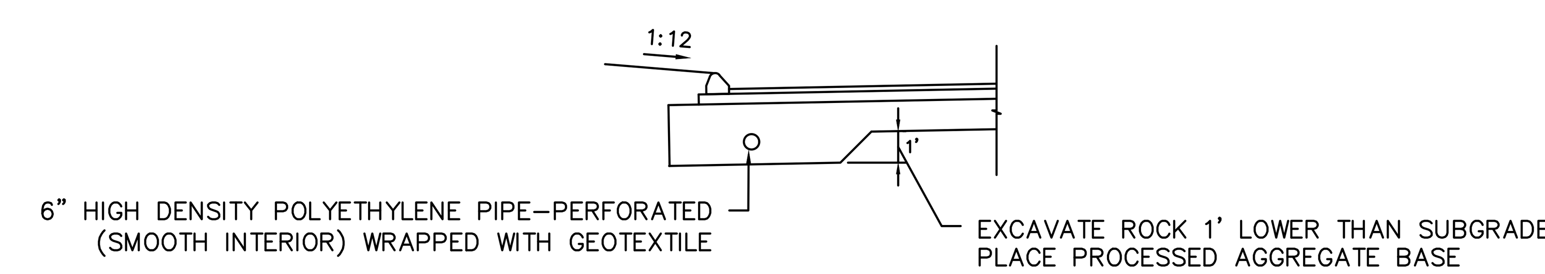
NOTE:
ALL CUT OR FILL SLOPES TO BE 2:1 MAX, UNLESS OTHERWISE NOTED ON THE CROSS SECTIONS OR APPROVED BY THE ENGINEER



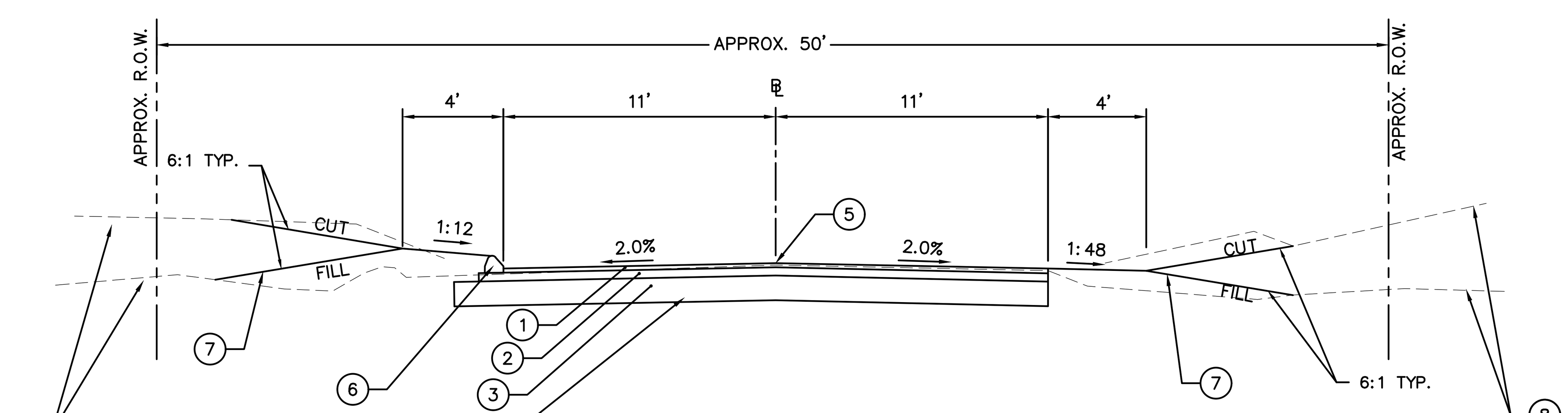
GUERNSEYTOWN ROAD
STA 3+92± TO STA 20+62± *e=2.20%
STA 29+96± TO STA 31+00± *e=3.20%
SUPER ELEVATION

SCALE: 1"=4'

SEE CROSS SECTIONS FOR DETAILS



ROCK CUT TYPICAL
NOT TO SCALE



WEST ROAD
STA 113+65 TO STA 120+48
SCALE: 1"=4'

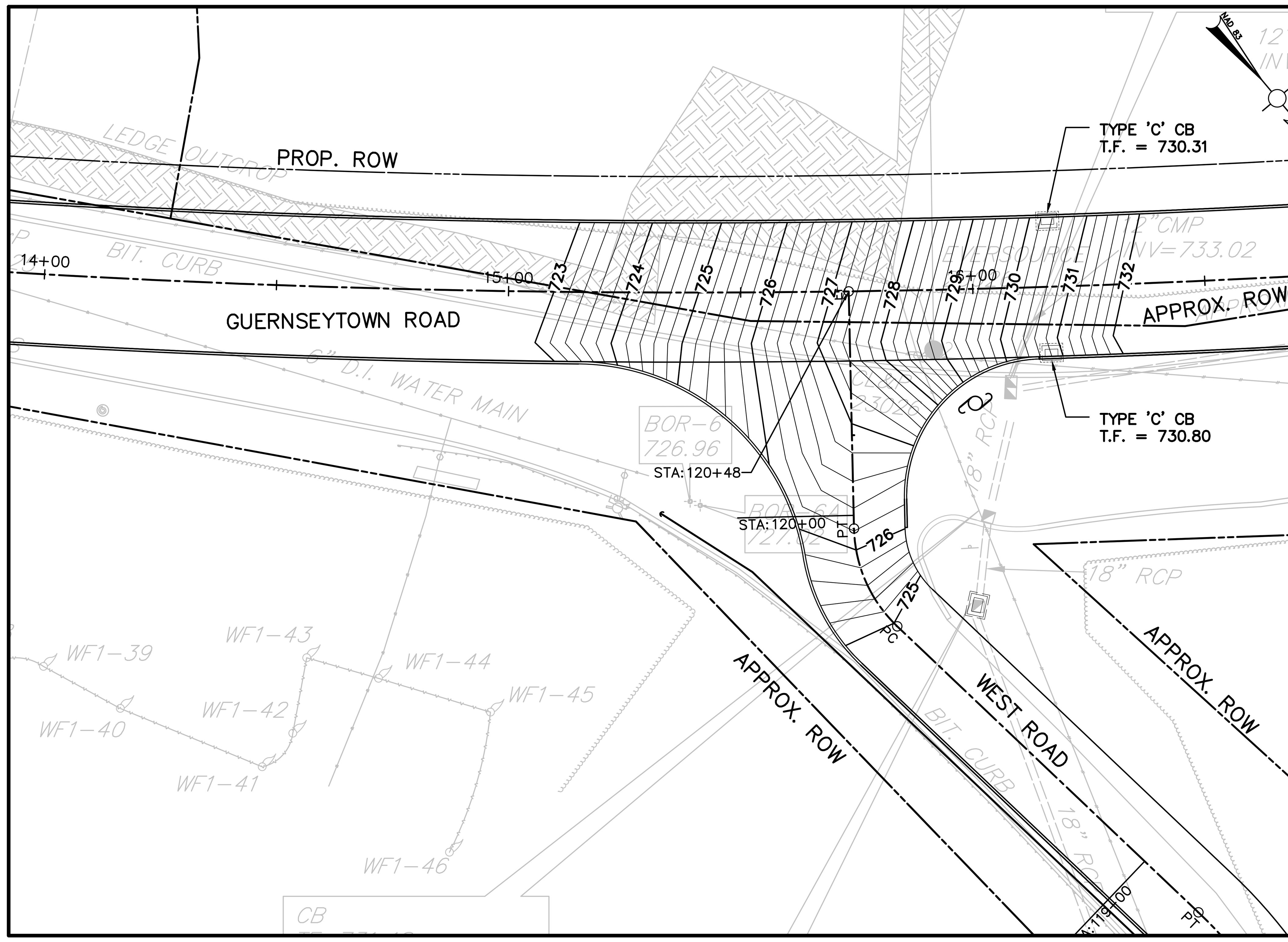
NO.	REVISIONS	BY	DATE	DES BY: LEC	DATE: JULY 2019	SUBMITTED BY: DATE:
				DRN BY: LEC		APPROVED BY: DATE:
				CHK BY: LAS	SCALE: AS SHOWN	Weston & Sampson 273 Dividend Road, Rocky Hill, CT 06067 860.513.1473 800.SAMPSON www.westonandsampson.com
				APPD BY: ALN		

TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

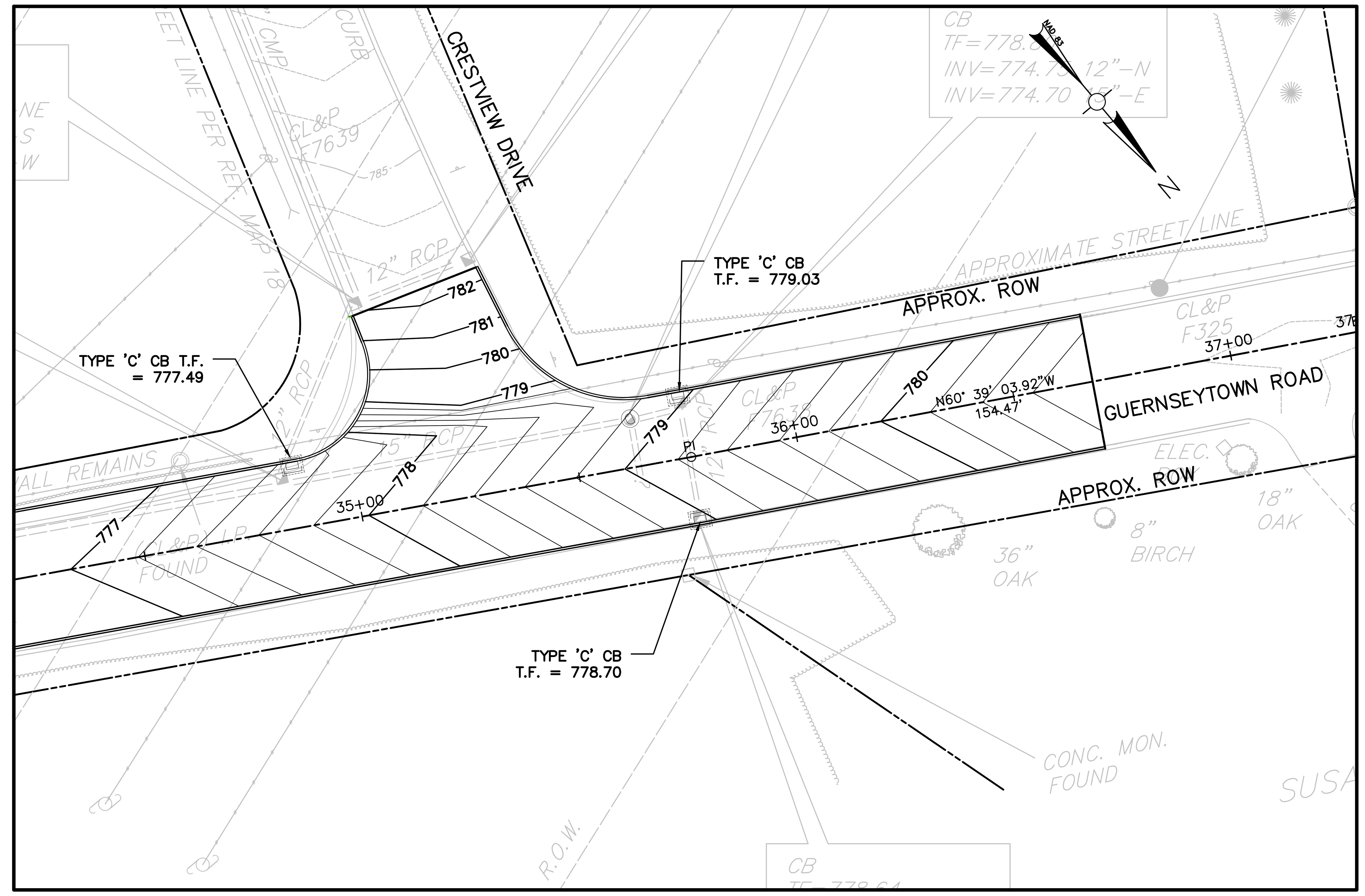
DRAWING TITLE: TYPICAL SECTIONS

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. TYP-1
SHEET NO. 16



GUERNSEYTOWN ROAD AT WEST ROAD GRADING PLAN

CONTOUR INTERVAL = 0.2'



GUERNSEYTOWN ROAD AT CRESTVIEW DRIVE GRADING PLAN

CONTOUR INTERVAL = 0.2'

PLAN

SCALE: 1"=20'

0 20' 40' 60'

NO.	REVISIONS	BY	DATE		
				DES BY:	LEC
				DRN BY:	LEC
				CHK BY:	LAS
				APPD BY:	ALN

DATE: JULY 2019

SCALE: AS SHOWN

SUBMITTED BY: DATE:

APPROVED BY: DATE:

Weston & Sampson
273 Dividend Road, Rocky Hill, CT 06067
860.513.1473 800.SAMPSON
www.westonandsampson.com

TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE: INTERSECTION GRADING PLAN

PROJECT NO. L153-0003

FILE NO.

DRAWING NO. IGP-1

SHEET NO. 17

BORING NUMBER: B-1
PAGE 1 OF 1

truction of Guernseytown Road - Phase III
atertown, Connecticut

attached plan.
6.8 ft. +/- **DATUM:** NAVD88
10/16/2018 **END DATE:** 10/16/2018

IDWATER OBSERVATIONS

COMMENTS

ION (constituent percentage)	COMMENTS
Organic Soil PEAT: 50-100% organic (soil): 15-50% with some organics: 5-15%	
some gravel, trace silt. ilt; moist. [FILL]	Drilled through pavement and base layer; thicknesses determined by visual observation.
ace gravel; moist.	
gravel; moist.	

sent the approximate boundary between soil types; actual

een made in the drill holes at the times and conditions
uations in the level of groundwater may occur due to other
the time measurements are made.

BORING NUMBER: **B-1**

Weston & Sampson — BORING NUMBER: B-2
PAGE 1 OF 1

CLIENT: Town of Watertown, Connecticut
PROJECT NUMBER: 2170757
PROJECT NAME: Reconstruction of Guernseytown Road - Phase III
PROJECT LOCATION: Watertown, Connecticut

DRILLER: Mike Glynn - Seaboard Drilling
LOGGED / CHECKED BY: Brian Toner / TJ Blair
RIG TYPE / DRILLING METHODS: Truck / hollow-stem auger (HSA)
CASING DIAMETER: 4.25" (HSA ID)
SAMPLING METHODS: Standard penetration test (SPT)
SAMPLER TYPE: Standard 24" long x 2" OD (1-3/8" ID) split-spoon
SAMPLER HAMMER: 140-lb. automatic hammer
OTHER:

BORING LOCATION: See attached plan.
GROUND ELEVATION: 774.7 ft. +/- **DATUM:** NAVD88
DRILLING START DATE: 10/16/2018 **END DATE:** 10/16/2018

GROUNDWATER OBSERVATIONS

DATE	DEPTH	COMMENTS
10/16/2018	10 ft. +/-	Approximated based on wet samples.

MATERIAL DESCRIPTION (see guide below for soil classification based on constituent percentage)
Mineral Soil: GRAVEL, SAND, SILT, CLAY: >50%; gravelly, sandy, silty, clayey: 35-50%; some: 20-35%; little: 10-20%; trace: 0-10%
Organic Soil: PEAT: 50-100%; organic (soil): 15-50%; with some organics: 5-15%

DEPTH (ft.) / Elevation	TYPE - NO.	DEPTH (ft.)	REC./PEN. (in.)	SPT BLOWS/6"	SPT N-VALUE	% MOISTURE	% FINES (P200)	STRATA NAME	MATERIAL DESCRIPTION	COMMENTS
0 / 774.7									| 0" - 6" | Asphalt concrete (AC) pavement. | 6" - 18" | Gravel base layer.	Drilled through pavement and base layer; thicknesses determined by visual observation.
	S-1	1.5	9/18	41 25 10	35	24	40	GLACIAL TILL	Dense, brown, silty fine to coarse SAND, little gravel; moist.	
	S-2	3.0	11/24	7 9 20 21	29	16	29		Medium dense, brown, silty fine to coarse SAND, trace gravel; moist.	
5 / 769.7	S-3	5.0	11/24	23 22 19 20	41				Dense, brown, silty fine to coarse SAND, little gravel; moist.	
10 / 764.7	S-4	10.0	10/24	11 9 14 19	23				Medium dense, brown, silty fine to coarse SAND, trace gravel; wet.	

Boring ended at 12.0 ft.

SAMPLE SYMBOL	TYPE	GRANULAR SOILS N-Value	Density	COHESIVE SOILS N-VALUE	CONSISTENCY
S	Split spoon	0-4	Very Loose	< 2	Very Soft
ST	Shelby tube	4-10	Loose	2-4	Soft
AG	Auger grab	10-30	Med. Dense	4-8	Med. Stiff
NX	Rock core	30-50	Dense	8-15	Stiff
GP	Direct push	> 50	Very Dense	15-30	Very Stiff
				> 30	Hard

GENERAL NOTES:
1. The stratification lines represent the approximate boundary between soil types; actual transitions may be gradual.
2. Water level readings have been made in the drill holes at the times and conditions stated on the boring log. Fluctuations in the level of groundwater may occur due to other factors than those presented at the time measurements are made.

BORING NUMBER: **B-2**

Weston & Sampson — BORING NUMBER: B-3
PAGE 1 OF 1

CLIENT: Town of Watertown, Connecticut
PROJECT NUMBER: 2170757
PROJECT NAME: Reconstruction of Guernseytown Road - Phase III
PROJECT LOCATION: Watertown, Connecticut

DRILLER: Mike Glynn - Seaboard Drilling
LOGGED / CHECKED BY: Brian Toner / TJ Blair
RIG TYPE / DRILLING METHODS: Truck / hollow-stem auger (HSA)
CASING DIAMETER: 4.25" (HSA ID)
SAMPLING METHODS: Standard penetration test (SPT)
SAMPLER TYPE: Standard 24" long x 2" OD (1-3/8" ID) split-spoon
SAMPLER HAMMER: 140-lb. automatic hammer
OTHER:

BORING LOCATION: See attached plan.
GROUND ELEVATION: 776.8 ft. +/- **DATUM:** NAVD88
DRILLING START DATE: 10/16/2018 **END DATE:** 10/16/2018

GROUNDWATER OBSERVATIONS

DATE	DEPTH	COMMENTS
10/16/2018	10 ft. +/-	Approximated based on wet samples.

DEPTH (ft.) / Elevation	TYPE - NO.	DEPTH (ft.)	REC./PEN. (in.)	SPT BLOWS/6"	SPT N-VALUE	% MOISTURE	% FINES (P200)	STRATA NAME	MATERIAL DESCRIPTION	COMMENTS
0 / 776.8	S-1	0.0	13/24	6 25 14 13	39				| Top 7" | Topsoil, trace gravel; moist. | Middle 2" | Asphalt concrete (AC) pavement. | Bottom 4"| Brown, fine to coarse SAND, trace gravel, trace silt; moist. [FILL]	Boring completed in grass-covered shoulder to avoid utilities and overhead wires. Possible buried pavement layer beneath topsoil.
	S-2	2.0	14/24	19 16 23 17	39			FILL	Dense, brown, fine to coarse SAND, some gravel, little silt; moist. [FILL]	
5 / 771.8	S-3	4.0	16/24	15 16 18 21	34	13	24	GLACIAL TILL	Dense, gray, silty fine to coarse SAND, trace gravel; moist.	
	S-4	6.0	18/24	21 14 18 20	32				Dense, gray-brown, silty fine to coarse SAND, little gravel; moist.	
	S-5	8.0	19/24	15 18 30 30	48				Dense, gray-brown, silty fine to coarse SAND, trace gravel; moist.	
10 / 766.8	S-6	10.0	0/24	18 9 24 62	33				*No recovery; possible cobble or gravel interference.*	Sampler was wet upon retrieval from 12 ft.
	S-7	12.0	12/24	9 10 10 13	20				Medium dense, brown, silty fine to coarse SAND, trace gravel; wet.	

Boring ended at 14.0 ft.

BORING NUMBER: **B-3**

BORING NUMBER: B-4
PAGE 1 OF 1

truction of Guernseytown Road - Phase III
atertown, Connecticut

attached plan.
7.1 ft. +/- **DATUM:** NAVD88
10/16/2018 **END DATE:** 10/16/2018

IDWATER OBSERVATIONS

COMMENTS

ION (constituent percentage)	COMMENTS
Organic Soil PEAT: 50-100% organic (soil): 15-50% with some organics: 5-15%	
little gravel. arse SAND, little silt; moist. t; moist. [FILL]	Drilled through pavement and base layer; thicknesses determined by visual observation.
; moist. [WEATHERED ROCK]	Slowed auger advancement below approximately 4 ft.

ly 5.8 ft.

sent the approximate boundary between soil types; actual

een made in the drill holes at the times and conditions
uations in the level of groundwater may occur due to other
the time measurements are made.

BORING NUMBER: **B-4**

Weston & Sampson — BORING NUMBER: B-5
PAGE 1 OF 1

GROUND ELEVATION: 761.3 ft. +/- **DATUM:** NAVD88
DRILLING START DATE: 10/16/2018 **END DATE:** 10/16/2018

GROUNDWATER OBSERVATIONS

DATE	DEPTH	COMMENTS
10/16/2018	Not observed	

DEPTH (ft.) / Elevation	TYPE - NO.	DEPTH (ft.)	REC./PEN. (in.)	SPT BLOWS/6"	SPT N-VALUE	% MOISTURE	% FINES (P200)	STRATA NAME	MATERIAL DESCRIPTION	COMMENTS
0 / 761.3									| 0" - 6" | Asphalt concrete (AC) pavement. | 6" - 12" | Gravel base layer.	Drilled through pavement and base layer; thicknesses determined by visual observation.
	S-1	1.0	16/24	36 23 16 15	39			GLACIAL TILL	Dense, gray-brown, fine to coarse SAND, some gravel, little silt; moist.	
	S-2	3.0	11/24	10 8 11 23	19				Medium dense, brown, fine to coarse SAND, some silt, trace gravel; moist.	
5 / 756.3	S-3	5.0	24/24	20 24 23 25	47			WEATH. ROCK	Dense, brown, fine to coarse SAND, trace gravel, trace silt; moist.	

Boring ended at 7.0 ft.

BORING NUMBER: **B-5**

Weston & Sampson — BORING NUMBER: B-6
PAGE 1 OF 1

GROUND ELEVATION: 726.9 ft. +/- **DATUM:** NAVD88
DRILLING START DATE: 10/16/2018 **END DATE:** 10/16/2018

GROUNDWATER OBSERVATIONS

DATE	DEPTH	COMMENTS
10/16/2018	Not observed	

DEPTH (ft.) / Elevation	TYPE - NO.	DEPTH (ft.)	REC./PEN. (in.)	SPT BLOWS/6"	SPT N-VALUE	% MOISTURE	% FINES (P200)	STRATA NAME	MATERIAL DESCRIPTION	COMMENTS
0 / 726.9									| 0" - 6" | Asphalt concrete (AC) pavement. | 6" - 12" | Gravel base layer.	Drilled through pavement and base layer; thicknesses determined by visual observation.
	S-1	1.0	5/9	25 100/3"		5	4	WEATHERED ROCK	Brown, fine to coarse SAND, trace gravel, trace silt; moist. [WEATHERED ROCK]	
	S-2	2.5	0/0	100/0"					*No recovery; drill cuttings and effort indicate weathered rock.*	
5	S-3	4.0	0/0	100/0"					*No recovery; drill cuttings and effort indicate weathered rock.*	
721.9									*Drilling refusal on bedrock or boulder at approximately 5.0 ft. Offset a few feet north to new location for additional attempt (B-6A).*	

BORING NUMBER: **B-6**

NO.	REVISIONS	BY	DATE

DES BY: LEC
DRN BY: LEC
CHK BY: LAS
APPD BY: ALN

DATE: JULY 2019
SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

Weston & Sampson
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TOWN OF WATERTOWN CONNECTICUT — WORKING FOR YOU

TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

ENGINEERING FOR TOMORROW

PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE: BORING LOGS

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. BOR-1
SHEET NO. 18

BORING NUMBER: B-6A

PAGE 1 OF 1

Reconstruction of Guernseytown Road - Phase III
ON: Watertown, Connecticut

N: See attached plan.
ION: 726.9 ft. +/- DATUM: NAVD88
DATE: 10/16/2018 END DATE: 10/16/2018

GROUNDWATER OBSERVATIONS	
EPTH	COMMENTS
bserved	

ESCRIPTION
on based on constituent percentage)

Organic Soil
PEAT: 50-100%
organic (soil): 15-50%
with some organics: 5-15%

DESCRIPTION	COMMENTS
t.	Drilled through pavement and base layer; thicknesses determined by visual observation.
little gravel, trace silt; moist.	

proximately 2.6 ft.

es represent the approximate boundary between soil types; actual
dual.

s have been made in the drill holes at the times and conditions
g. Fluctuations in the level of groundwater may occur due to other
sented at the time measurements are made.

BORING NUMBER: B-6A

Weston & Sampson — BORING NUMBER: B-7

PAGE 1 OF 1

CLIENT: Town of Watertown, Connecticut
PROJECT NUMBER: 2170757
PROJECT NAME: Reconstruction of Guernseytown Road - Phase III
PROJECT LOCATION: Watertown, Connecticut

DRILLER: Mike Glynn - Seaboard Drilling
LOGGED / CHECKED BY: Brian Toner / TJ Blair
RIG TYPE / DRILLING METHODS: Truck / hollow-stem auger (HSA)
CASING DIAMETER: 4.25" (HSA ID)
SAMPLING METHODS: Standard penetration test (SPT)
SAMPLER TYPE: Standard 24" long x 2" OD (1-3/8" ID) split-spoon
SAMPLER HAMMER: 140-lb. automatic hammer
OTHER:

BORING LOCATION: See attached plan.
GROUND ELEVATION: 708.1 ft. +/- **DATUM:** NAVD88
DRILLING START DATE: 10/16/2018 **END DATE:** 10/16/2018

GROUNDWATER OBSERVATIONS		
DATE	DEPTH	COMMENTS
10/16/2018	7 ft. +/-	Approximated based on wet samples.

MATERIAL DESCRIPTION (see guide below for soil classification based on constituent percentage)
Mineral Soil: GRAVEL, SAND, SILT, CLAY: >50%; gravelly, sandy, silty, clayey: 35-50%; some: 20-35%; little: 10-20%; trace: 0-10%
Organic Soil: PEAT: 50-100%; organic (soil): 15-50%; with some organics: 5-15%

DEPTH (ft.) / *Elevation*	TYPE - NO.	DEPTH (ft.)	REC./PEN. (in.)	SPT BLOWS/6"	SPT N-VALUE	% MOISTURE	% FINES (P200)	STRATA NAME	MATERIAL DESCRIPTION	COMMENTS
0 / *708.1*									| 0" - 7" | Asphalt concrete (AC) pavement; gravel base layer not observed.	Drilled through pavement; thickness determined by visual observation.
	S-1	1.0	2/24	12 23 9 5	32			FILL	Dense, brown, fine to coarse SAND, little gravel, trace silt; moist. [FILL]	
	S-2	3.0	12/24	2 1 3 14	4	26	40	GLACIAL TILL	Dense, gray, silty fine to coarse SAND, trace gravel; moist.	
5 / *703.1*	S-3	5.0	13/24	32 19 10 7	29			GLACIAL TILL	Medium dense, gray, silty fine to coarse SAND, little gravel; moist.	
	S-4	7.0	13/24	7 7 12 16	19			GLACIAL TILL	Medium dense, gray-brown, silty fine to coarse SAND, trace gravel; wet.	
10 / *698.1*	S-5	9.0	13/24	22 24 25 30	49			GLACIAL TILL	Dense, brown, fine to coarse SAND, some gravel, some silt; wet.	
	S-6	11.0	9/24	42 53 49 36	102			GLACIAL TILL	Very dense, gray, fine to coarse SAND, some gravel, some silt; wet.	

Boring ended at 13.0 ft.

SAMPLE		GRANULAR SOILS		COHESIVE SOILS	
SYMBOL	TYPE	N-Value	Density	N-VALUE	CONSISTENCY
S	Split spoon	0-4	Very Loose	< 2	Very Soft
ST	Shelby tube	4-10	Loose	2-4	Soft
AG	Auger grab	10-30	Med. Dense	4-8	Med. Stiff
NX	Rock core	30-50	Dense	8-15	Stiff
GP	Direct push	> 50	Very Dense	15-30	Very Stiff
				> 30	Hard

GENERAL NOTES:
1. The stratification lines represent the approximate boundary between soil types; actual transitions may be gradual.
2. Water level readings have been made in the drill holes at the times and conditions stated on the boring log. Fluctuations in the level of groundwater may occur due to other factors than those presented at the time measurements are made.

BORING NUMBER: B-7

Weston & Sampson — BORING NUMBER: B-8

PAGE 1 OF 1

CLIENT: Town of Watertown, Connecticut
PROJECT NUMBER: 2170757
PROJECT NAME: Reconstruction of Guernseytown Road - Phase III
PROJECT LOCATION: Watertown, Connecticut

DRILLER: Mike Glynn - Seaboard Drilling
LOGGED / CHECKED BY: Brian Toner / TJ Blair
RIG TYPE / DRILLING METHODS: Truck / hollow-stem auger (HSA)
CASING DIAMETER: 4.25" (HSA ID)
SAMPLING METHODS: Standard penetration test (SPT)
SAMPLER TYPE: Standard 24" long x 2" OD (1-3/8" ID) split-spoon
SAMPLER HAMMER: 140-lb. automatic hammer
OTHER:

BORING LOCATION: See attached plan.
GROUND ELEVATION: 720.1 ft. +/- **DATUM:** NAVD88
DRILLING START DATE: 10/16/2018 **END DATE:** 10/16/2018

GROUNDWATER OBSERVATIONS		
DATE	DEPTH	COMMENTS
10/16/2018	Not observed	

DEPTH (ft.) / *Elevation*	TYPE - NO.	DEPTH (ft.)	REC./PEN. (in.)	SPT BLOWS/6"	SPT N-VALUE	% MOISTURE	% FINES (P200)	STRATA NAME	MATERIAL DESCRIPTION	COMMENTS
0 / *720.1*									| 0" - 8" | Asphalt concrete (AC) pavement; gravel base layer not observed.	Drilled through pavement; thickness determined by visual observation.
	S-1	1.0	1/24	32 34 27 26	61	5	10	FILL	Very dense, brown, fine to coarse SAND, some gravel, trace silt; moist. [FILL]	
	S-2	3.0	24/24	14 10 14 20	24			GLACIAL TILL	Medium dense, brown, silty fine to coarse SAND, trace gravel; moist.	
5 / *715.1*	S-3	5.0	17/24	15 20 23 31	43			GLACIAL TILL	Dense, brown, silty fine to coarse SAND, little gravel; moist.	

Boring ended at 7.0 ft.

BORING NUMBER: B-8

BORING NUMBER: B-9

PAGE 1 OF 1

Reconstruction of Guernseytown Road - Phase III
ON: Watertown, Connecticut

N: See attached plan.
ION: 724.2 ft. +/- DATUM: NAVD88
DATE: 10/16/2018 END DATE: 10/16/2018

GROUNDWATER OBSERVATIONS	
EPTH	COMMENTS
bserved	

DESCRIPTION	COMMENTS
t; gravel base layer not observed.	Drilled through pavement; thickness determined by visual observation.
e gravel, trace silt; moist. [FILL]	
trace gravel; moist.	
ND, little gravel; moist.	

BORING NUMBER: B-9

Weston & Sampson — BORING NUMBER: B-10

PAGE 1 OF 1

CLIENT: Town of Watertown, Connecticut
PROJECT NUMBER: 2170757
PROJECT NAME: Reconstruction of Guernseytown Road - Phase III
PROJECT LOCATION: Watertown, Connecticut

DRILLER: Mike Glynn - Seaboard Drilling
LOGGED / CHECKED BY: Brian Toner / TJ Blair
RIG TYPE / DRILLING METHODS: Truck / hollow-stem auger (HSA)
CASING DIAMETER: 4.25" (HSA ID)
SAMPLING METHODS: Standard penetration test (SPT)
SAMPLER TYPE: Standard 24" long x 2" OD (1-3/8" ID) split-spoon
SAMPLER HAMMER: 140-lb. automatic hammer
OTHER:

BORING LOCATION: See attached plan.
GROUND ELEVATION: 709.3 ft. +/- **DATUM:** NAVD88
DRILLING START DATE: 10/16/2018 **END DATE:** 10/16/2018

GROUNDWATER OBSERVATIONS		
DATE	DEPTH	COMMENTS
10/16/2018	Not observed	

DEPTH (ft.) / *Elevation*	TYPE - NO.	DEPTH (ft.)	REC./PEN. (in.)	SPT BLOWS/6"	SPT N-VALUE	% MOISTURE	% FINES (P200)	STRATA NAME	MATERIAL DESCRIPTION	COMMENTS
0 / *709.3*									| 0" - 4" | Asphalt concrete (AC) pavement; gravel base layer not observed. *Drilled past cobble directly beneath pavement.*	Drilled through pavement; thickness determined by visual observation.
	S-1	1.0	10/24	40 27 30 30	57			WEATHERED ROCK	Very dense, brown, fine to coarse SAND, little gravel, trace silt; moist. [WEATHERED ROCK]	
	S-2	3.0	12/24	44 25 53 89	78			WEATHERED ROCK	Very dense, brown, fine to coarse SAND, little gravel, trace silt; moist. [WEATHERED ROCK]	
5 / *704.3*	S-3	5.0	10/12	98 100				WEATHERED ROCK	Brown, fine to coarse SAND, little gravel, trace silt; moist. [WEATHERED ROCK]	

Boring ended at 6.0 ft. SPT refusal at 6.0 ft.

BORING NUMBER: B-10

Weston & Sampson — BORING NUMBER: B-11

PAGE 1 OF 1

CLIENT: Town of Watertown, Connecticut
PROJECT NUMBER: 2170757
PROJECT NAME: Reconstruction of Guernseytown Road - Phase III
PROJECT LOCATION: Watertown, Connecticut

DRILLER: Mike Glynn - Seaboard Drilling
LOGGED / CHECKED BY: Brian Toner / TJ Blair
RIG TYPE / DRILLING METHODS: Truck / hollow-stem auger (HSA)
CASING DIAMETER: 4.25" (HSA ID)
SAMPLING METHODS: Standard penetration test (SPT)
SAMPLER TYPE: Standard 24" long x 2" OD (1-3/8" ID) split-spoon
SAMPLER HAMMER: 140-lb. automatic hammer
OTHER:

BORING LOCATION: See attached plan.
GROUND ELEVATION: 684.8 ft. +/- **DATUM:** NAVD88
DRILLING START DATE: 10/16/2018 **END DATE:** 10/16/2018

GROUNDWATER OBSERVATIONS		
DATE	DEPTH	COMMENTS
10/16/2018	Not observed	

DEPTH (ft.) / *Elevation*	TYPE - NO.	DEPTH (ft.)	REC./PEN. (in.)	SPT BLOWS/6"	SPT N-VALUE	% MOISTURE	% FINES (P200)	STRATA NAME	MATERIAL DESCRIPTION	COMMENTS
0 / *684.8*									| 0" - 4" | Asphalt concrete (AC) pavement; gravel base layer not observed. *Drilled past boulder directly beneath pavement.*	Drilled through pavement and base layer; thicknesses determined by visual observation.
	S-1	2.0	13/24	10 6 11 20	17	11	14	GLACIAL TILL	Medium dense, brown, fine to coarse SAND, little silt, trace gravel; moist.	
5 / *679.8*	S-2	4.0	20/24	16 17 18 37	35			GLACIAL TILL	Dense, gray, silty fine to coarse SAND, trace gravel; moist.	

Boring ended at 6.0 ft.

BORING NUMBER: B-11

NO.	REVISIONS	BY	DATE

DES BY: LEC
DRN BY: LEC
CHK BY: LAS
APPD BY: ALN

DATE: JULY 2019
SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

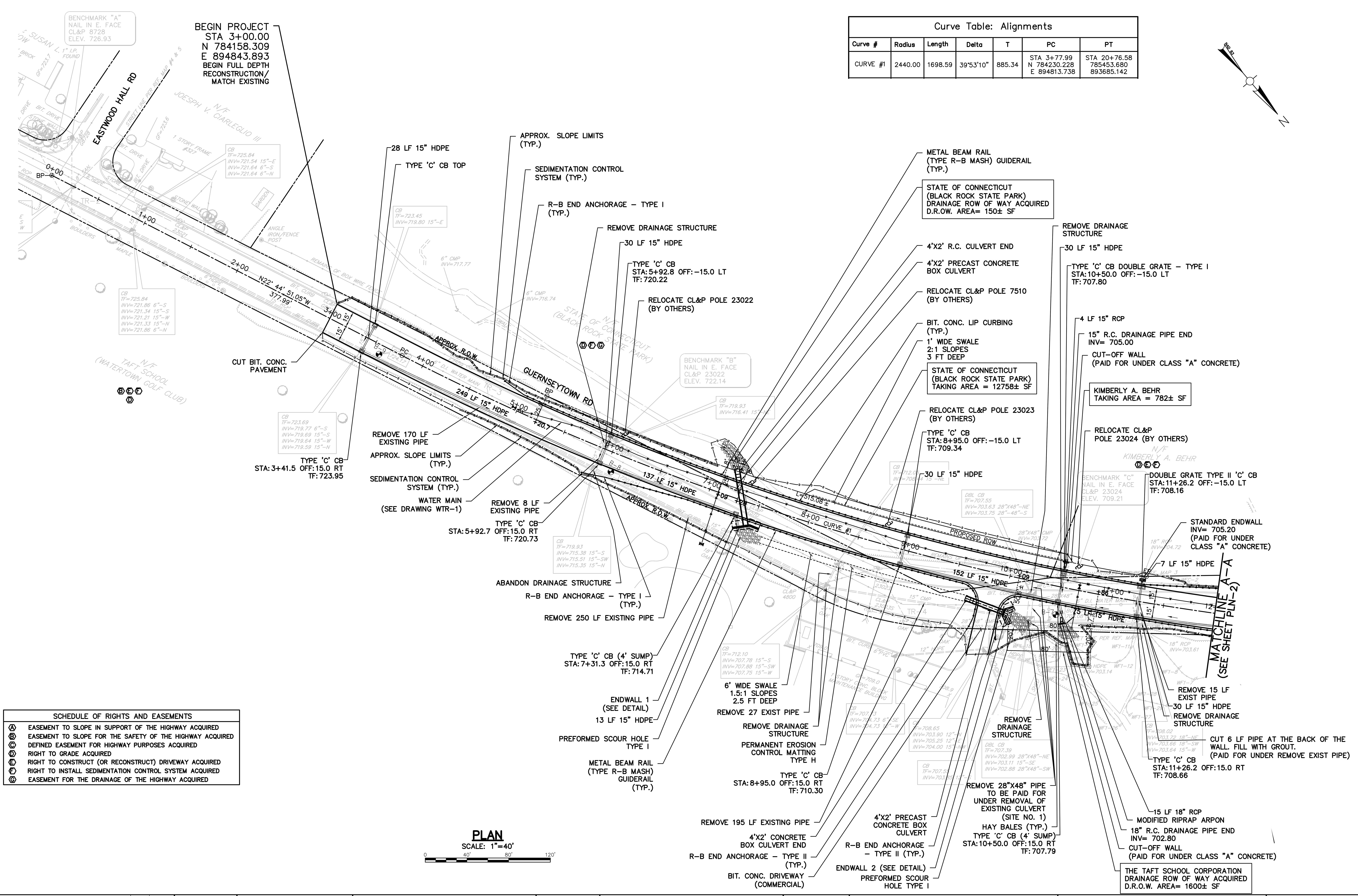
Weston & Sampson
273 Dividend Road, Rocky Hill, CT 06067
860.513.1473 800.SAMPSON
www.westonandsampson.com

TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE: BORING LOGS

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. BOR-2
SHEET NO. 19



Curve Table: Alignments

Curve #	Radius	Length	Delta	T	PC	PT
CURVE #1	2440.00	1698.59	39°53'10"	885.34	STA 3+77.99 N 784230.228 E 894813.738	STA 20+76.58 785453.680 893685.142

SCHEDULE OF RIGHTS AND EASEMENTS

- Ⓐ EASEMENT TO SLOPE IN SUPPORT OF THE HIGHWAY ACQUIRED
- Ⓑ EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY ACQUIRED
- Ⓒ DEFINED EASEMENT FOR HIGHWAY PURPOSES ACQUIRED
- Ⓓ RIGHT TO GRADE ACQUIRED
- Ⓔ RIGHT TO CONSTRUCT (OR RECONSTRUCT) DRIVEWAY ACQUIRED
- Ⓕ RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM ACQUIRED
- Ⓖ EASEMENT FOR THE DRAINAGE OF THE HIGHWAY ACQUIRED

NO.	REVISIONS	BY	DATE

DES BY: LEC
DRN BY: LEC
CHK BY: LAS
APPD BY: ALN

DATE: JULY 2019

SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

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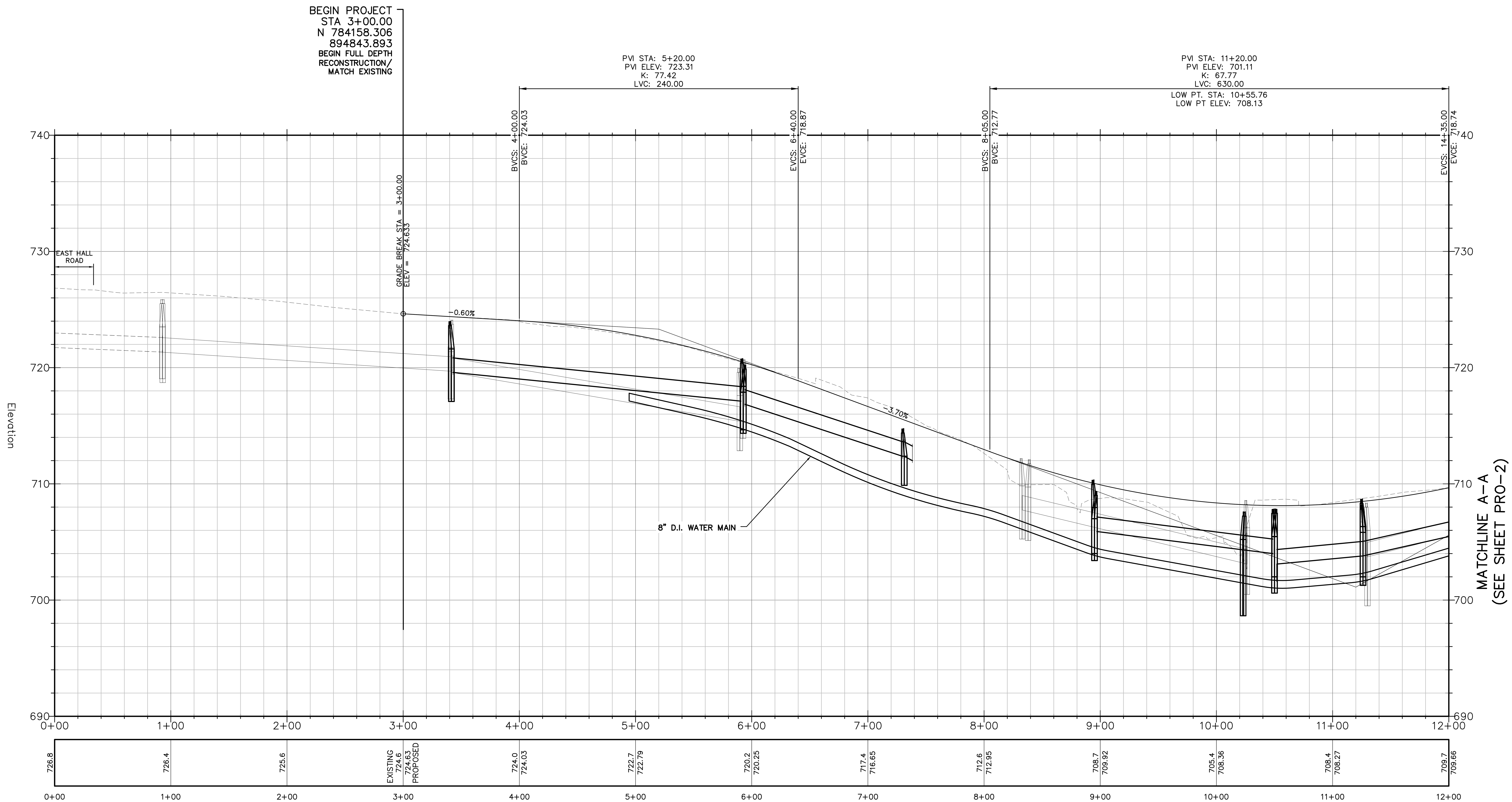
TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE:
CONSTRUCTION PLAN
STA 3+00 TO 12+00
(GUERNSEYTOWN ROAD)

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. PLN-1
SHEET NO. 20



CENTERLINE ROAD PROFILE
SCALE: 1"=40' HORZ, 1"=4' VERT

NO.	REVISIONS	BY	DATE		
				DES BY:	LEC
				DRN BY:	LEC
				CHK BY:	LAS
				APPD BY:	ALN

DATE: JULY 2019
SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

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TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE:
ROADWAY PROFILE
STA 3+00 TO 12+00
(GUERNSEYTOWN ROAD)

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. PRO-1
SHEET NO. 21

SCHEDULE OF RIGHTS AND EASEMENTS

A	EASEMENT TO SLOPE IN SUPPORT OF THE HIGHWAY ACQUIRED
B	EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY ACQUIRED
C	DEFINED EASEMENT FOR HIGHWAY PURPOSES ACQUIRED
D	RIGHT TO GRADE ACQUIRED
E	RIGHT TO CONSTRUCT (OR RECONSTRUCT) DRIVEWAY ACQUIRED
F	RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM ACQUIRED
G	EASEMENT FOR THE DRAINAGE OF THE HIGHWAY ACQUIRED

Curve Table: Alignments

Curve #	Radius	Length	Delta	T	PC	PT
CURVE #1	2440.00	1698.59	39°53'10"	885.34	STA 3+77.99 N 784230.228 E 894813.738	STA 20+76.58 785453.680 893685.142
CURVE #4	100.00	127.85	73°15'05"	74.34	STA 117+56.16 N 785432.121 E 894193.468	STA 118+84.01 785328.965 894133.507
CURVE #5	30.00	23.65	45°10'32"	12.48	STA 119+73.49 N 785240.053 E 894143.571	STA 119+97.14 785217.914 894137.168
CURVE #7	45.00	9.20	11°42'57"	4.62	STA 250+27.85 N 785277.438 E 893926.690	STA 250+37.05 785268.255 893926.924
CURVE #8	35.00	28.37	46°26'49"	15.02	STA 250+89.19 N 785216.539 E 893933.569	STA 251+17.57 785189.994 893926.006
CURVE #9	70.00	33.62	27°31'15"	17.14	STA 251+49.31 N 785165.367 E 893905.974	STA 251+82.94 785135.276 893891.708
CURVE #10	230.00	80.81	20°07'54"	40.83	STA 251+89.21 N 785129.132 E 893890.446	STA 252+70.02 785048.762 893888.287

NO.	REVISIONS	BY	DATE

DES BY: LEC
DRN BY: LEC
CHK BY: LAS
APPD BY: ALN

DATE: JULY 2019
SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

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TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE:
CONSTRUCTION PLAN
STA 12+00 TO 24+00 (GUERNSEYTOWN ROAD)
STA 117+56.16 TO 120+48 (WEST ROAD)

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. PLN-2
SHEET NO.

CENTERLINE ROAD PROFILE

SCALE: 1"=40' HORZ, 1"=4' VERT

NO.	REVISIONS	BY	DATE

DES BY:	LEC
DRN BY:	LEC
CHK BY:	LAS
APPD BY:	ALN

DATE: JULY 2019

SCALE: AS SHOWN

SUBMITTED BY: DATE:

APPROVED BY: DATE:

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TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE:
ROADWAY PROFILE
STA 12+00 TO 24+00
(GUERNSEYTOWN ROAD)

PROJECT NO. L153-0003

FILE NO.

DRAWING NO. PRO-2

SHEET NO. 23

PLAN

SCALE: 1"=40'

0 40' 80' 120'

Curve Table: Alignments

Curve #	Radius	Length	Delta	T	PC	PT
CURVE #2	1000.00	210.29	12°02'55"	105.53	STA 24+75.89 N 785637.236 E 893330.516	STA 26+86.18 785752.707 893155.231
CURVE #3	900.00	145.45	9°15'34"	72.88	STA 29+74.96 N 785934.406 E 892930.782	STA 31+20.41 786016.410 892810.845

SCHEDULE OF RIGHTS AND EASEMENTS

- Ⓐ EASEMENT TO SLOPE IN SUPPORT OF THE HIGHWAY ACQUIRED
- Ⓑ EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY ACQUIRED
- Ⓒ DEFINED EASEMENT FOR HIGHWAY PURPOSES ACQUIRED
- Ⓓ RIGHT TO GRADE ACQUIRED
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- Ⓕ RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM ACQUIRED
- Ⓖ EASEMENT FOR THE DRAINAGE OF THE HIGHWAY ACQUIRED

NO.	REVISIONS	BY	DATE

DES BY: LEC | DRN BY: LEC | CHK BY: LAS | APPD BY: ALN

DATE: JULY 2019

SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

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TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE: CONSTRUCTION PLAN STA 24+00 TO 35+70 (GUERNSEYTOWN ROAD)

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. PLN-3
SHEET NO. 24

	24+00	25+00	26+00	27+00	28+00	29+00	30+00	31+00	32+00	33+00	34+00	35+00	36+00	37+00
EXISTING	787.8	787.8	784.1	779.2	776.9	776.1	775.5	775.0	774.9	775.6	776.7	778.1	779.7	781.0
PROPOSED	787.60	788.51	785.98	780.88	777.48	776.29	775.74	775.28	775.25	775.68	776.59	777.97	779.67	

CENTERLINE ROAD PROFILE

SCALE: 1"=40' HORZ, 1"=4' VERT

NO.	REVISIONS	BY	DATE

DES BY: LEC
DRN BY: LEC
CHK BY: LAS
APPD BY: ALN

DATE: JULY 2019

SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

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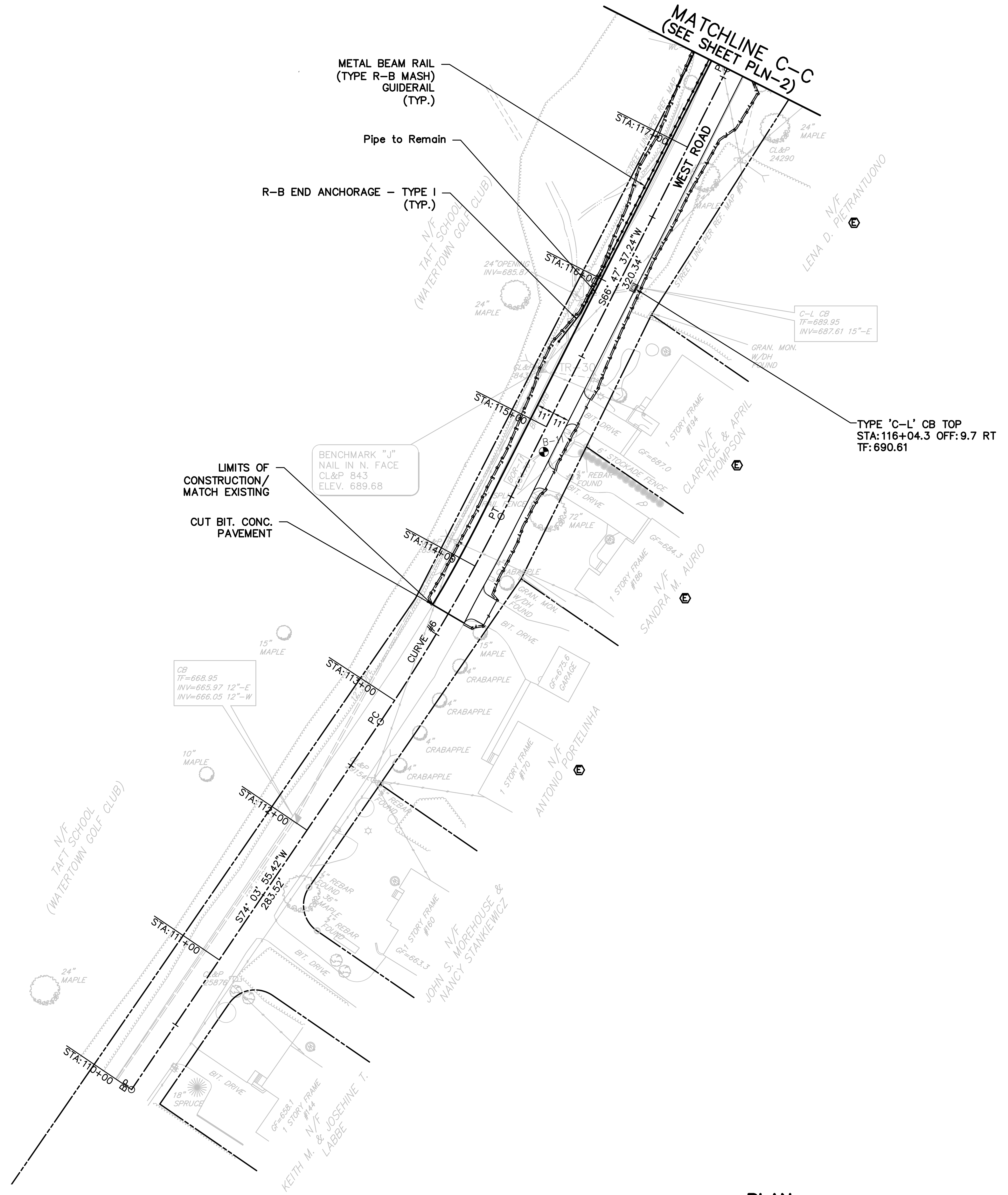
TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE:
ROADWAY PROFILE
STA 24+00 TO 36+00
(GUERNSEYTOWN ROAD)

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. PRO-3
SHEET NO. 25



PLAN
SCALE: 1"=40'
0 40' 80' 120'

Curve Table: Alignments						
Curve #	Radius	Length	Delta	T	PC	PT
CURVE #6	1200.00	152.30	7°16'18"	76.25	STA 112+83.52 N 785609.328 E 894631.291	STA 114+35.82 785558.348 894487.888

SCHEDULE OF RIGHTS AND EASEMENTS	
A	EASEMENT TO SLOPE IN SUPPORT OF THE HIGHWAY ACQUIRED
B	EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY ACQUIRED
C	DEFINED EASEMENT FOR HIGHWAY PURPOSES ACQUIRED
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NO.	REVISIONS	BY	DATE

DES BY: LEC
DRN BY: LEC
CHK BY: LAS
APPD BY: ALN

DATE: JULY 2019
SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

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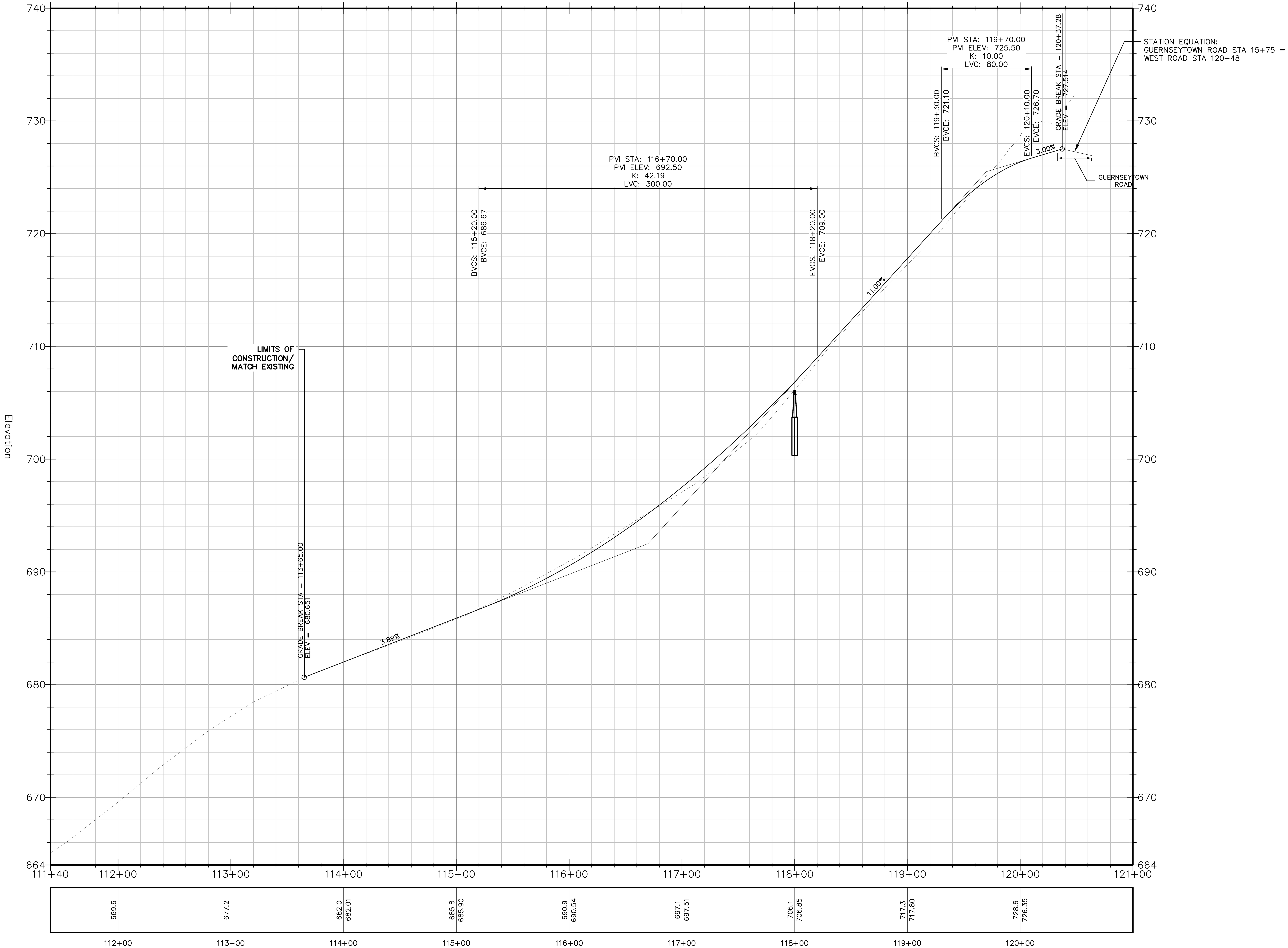
TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE:
RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE:
CONSTRUCTION PLAN
STA 113+65 TO 117+56.16
(WEST ROAD)

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. PLN-4
SHEET NO. 26



WEST ROAD CENTERLINE ROAD PROFILE

SCALE: 1"=40' HORZ, 1"=4' VERT

NO.	REVISIONS	BY	DATE

DES BY: LEC	DATE: JULY 2019	SUBMITTED BY:	DATE:
DRN BY: LEC		APPROVED BY:	DATE:
CHK BY: LAS	SCALE: AS SHOWN		
APPD BY: ALN			

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TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE: ROADWAY PROFILE STA 113+65 TO 120+48 (WEST ROAD)

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. PRO-4
SHEET NO.

PLAN

SCALE: 1"=40'

0 40' 80' 120'

NO.	REVISIONS	BY	DATE

DES BY: LEC
DRN BY: LEC
CHK BY: LAS
APPD BY: ALN

DATE: JULY 2019

SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

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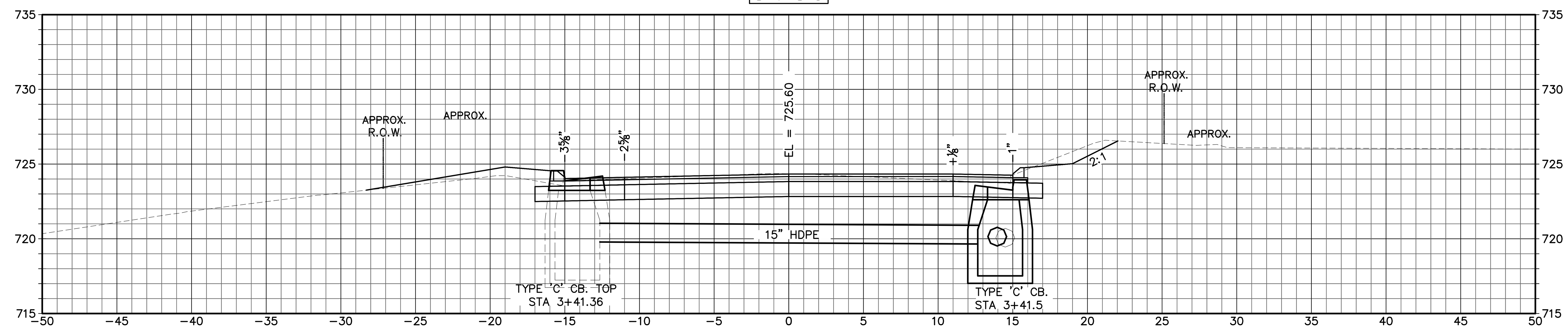
TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE:
RECONSTRUCTION OF
GUERNSEYTOWN ROAD

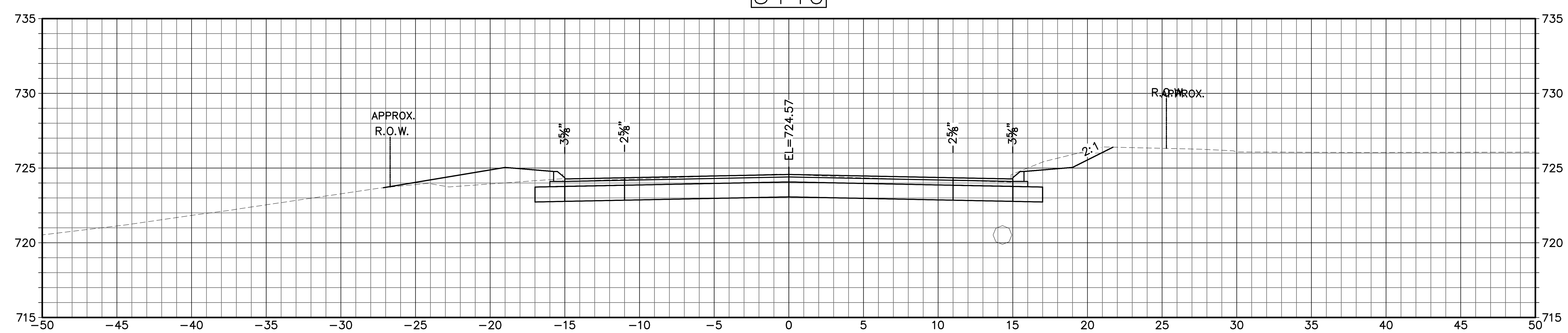
DRAWING TITLE:
WATER PLAN

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. WTR-1
SHEET NO.

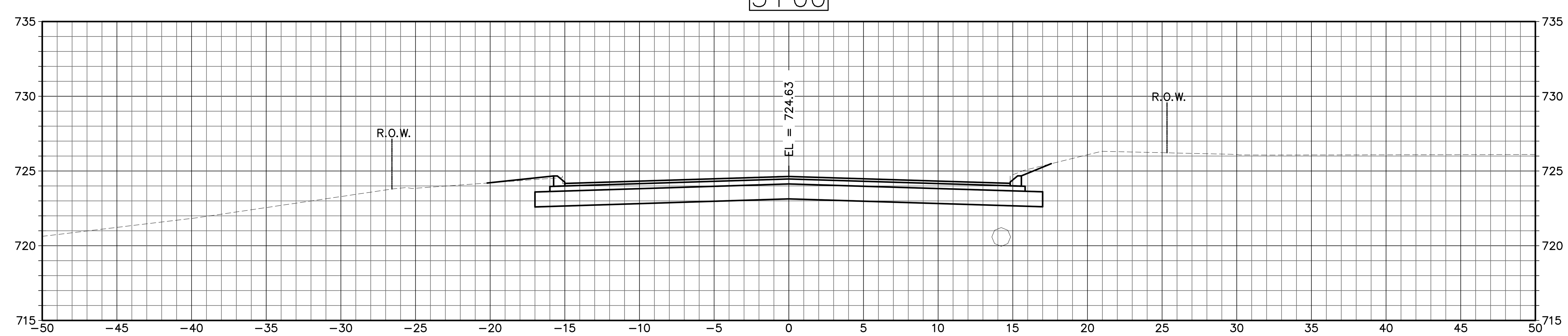
3+50



3+10



3+00



MATCH EXISTING

CROSS SECTIONS
SCALE: 1"=5'

NO.	REVISIONS	BY	DATE

DES BY: LEC
DRN BY: LEC
CHK BY: LAS
APPD BY: ALN

DATE: JULY 2019
SCALE: AS SHOWN

SUBMITTED BY: DATE:
APPROVED BY: DATE:

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TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE: RECONSTRUCTION OF GUERNSEYTOWN ROAD

DRAWING TITLE: CROSS SECTIONS

PROJECT NO. L153-0003
FILE NO.
DRAWING NO. XSC-1
SHEET NO. 29