

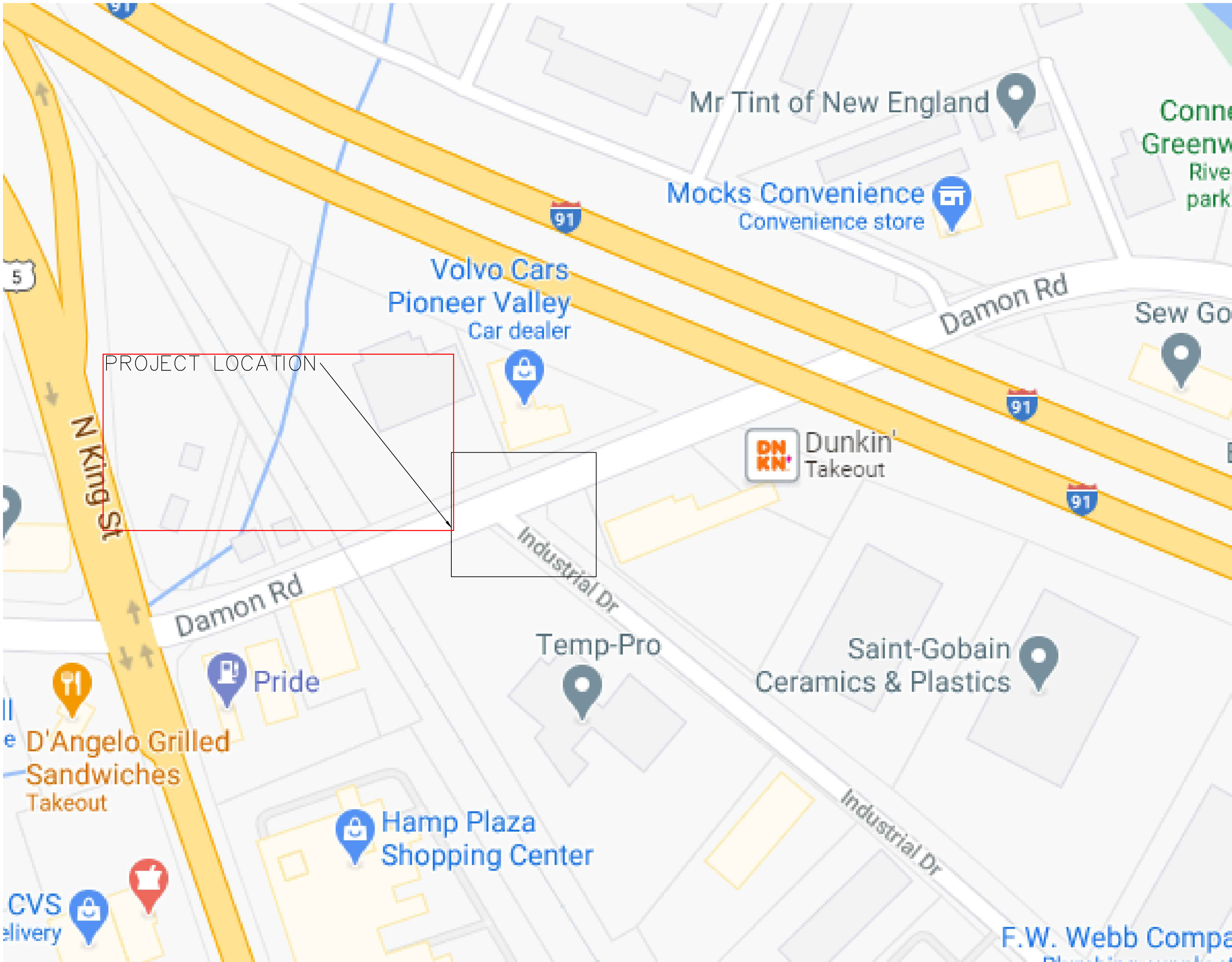
Pole & UG Petition/Permit Request Form**City****Town of** _____ **WR #** _____
(circle one)**Install** _____ **SO**
(quantity) **JO** Poles on _____
(circle one) (street name)**Remove** _____ **SO**
(quantity) **JO** Poles on _____
(circle one) (street name)**Relocate** _____ **SO**
(quantity) **JO** Poles on _____
(circle one) (street name)**Beginning at a point approximately** _____ **feet** _____ **of the centerline**
(distance) (compass heading)
of the intersection of _____
(street name)**and continuing approximately** _____ **feet in a** _____ **direction.**
(distance) (compass heading)**Install underground facilities:****Street(s)** _____**Description of Work:****ENGINEER** _____**DATE** _____

DISTRIBUTION CIVIL DRAWINGS

DAMON RD

NORTHAMPTON, MA

DRAWING LIST	
DRAWING NO.	CONTENT
G-0	COVER SHEET
G-1	GENERAL NOTES
PP-1 + PP-2	PLAN & PROFILE
DET-1	MANHOLE CARDS
DET-2	MANHOLE/CONDUIT/RISER DETAILS





124 Grove St.
Franklin, MA 02038

PROJECT NO. 270728

REV	DESCRIPTION	DATE	DES	CHK	APP

DESIGNED

AS

DRAWN

CHECKED

APPROVED

REVIEW 1

REVIEW 2

3/24/21

DATE

NTS

SCALE



WR#23303524

nationalgrid

MASSDOT DAMON RD
LAYOUT PLAN

G-0

REV. 0

CONTRACTOR TO PROVIDE AS-BUILT INFORMATION TO DAYS AFTER COMPLETION OF CONDUIT INSTALLATION WORK.

2. THE LOCATIONS OF UNDERGROUND STRUCTURES SHOWN HEREIN ARE DEPICTED ACCORDING TO THE BEST AVAILABLE INFORMATION. THEY ARE NOT GUARANTEED TO BE CORRECT OR COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM ALL CONDITIONS IN THE FIELD AND MAKE ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE WORK BY GETTING APPROVAL FROM NATIONAL GRID CONSTRUCTION MANAGEMENT FIRST. IT IS ASSUMED ALL PREMISES HAVE WATER, GAS, TEL. ELEC. SEWER, ETC. LATERAL CROSSINGS WHICH SHOULD BE INCLUDED IN THE BASE BID.

3. ANY QUESTIONS REGARDING THE CIVIL ENGINEERING DESIGN OF THESE CONSTRUCTION PLANS SHOULD BE REFERRED TO TRC DISTRIBUTION ENGINEER DANIEL LOPEZ AT 774-235-2603 OR DAVID TERK AT 508-298-1523.

4. DO NOT DEVIATE FROM THESE PLANS WITHOUT FIRST CONTACTING NATIONAL GRID CIVIL CONSTRUCTION SUPERVISOR:

- GARY BELLOWS 413-652-9222

5. ALL UNDERGROUND CONSTRUCTION SHALL BE INSPECTED AND APPROVED BY NATIONAL GRID PERSONAL PRIOR TO CONCRETE ENCASEMENT AND BACKFILL. CONTRACTOR SHALL MANDREL, PROVE, AND INSTALL MULE TAPE IN ALL CONDUITS PER NATIONAL GRID CONSTRUCTION STANDARDS UNDER SUPERVISION OF NATIONAL GRID CONSTRUCTION SUPERVISOR.

6. CONTRACTOR TO ARRANGE TO HAVE ALL FOREIGN UTILITIES VERIFY THEIR LOCATIONS IN THE FIELD PRIOR TO START OF EXCAVATION WORK BY CONTACTING DIG SAFE AT "811", 1-888-DIG-SAFE. NOT ALL UTILITY SERVICES TO PROPERTIES ARE SHOWN ON THESE PLANS. REFER TO NOTE 2 ABOVE.

7. PROTECT ALL MUNICIPAL, STATE, AND FEDERAL SURVEY CONTROL MONUMENTS AND BENCH MARKS. CONTRACTOR TO CONTACT RESPECTIVE MUNICIPAL ENGINEERING DEPARTMENTS FOR TYPES AND LOCATIONS BEFORE STARTING WORK AS REQUIRED.

8. PROTECT ALL PLANTS AND TREES AND THEIR ROOT SYSTEMS FROM MECHANICAL AND ENVIRONMENTAL DAMAGE DURING EXCAVATION. BACKFILL ROOT AREAS WITH SOIL HAVING TEXTURE AND FERTILITY TO SUSTAIN PLANT LIFE. CONTRACTOR TO REMOVE ALL ROOTS OF DEAD TREE STUMPS FROM TRENCH PRIOR TO PLACING CONDUIT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF NECESSARY EROSION CONTROL (SILT SACKS, HAY BALES, CHECK DAMS, ETC.) APPROVED BY THE STATE, CITY/TOWN, AND QUONSET DEVELOPMENT CORPORATION AS REQUIRED FOR THE DURATION OF THE PROJECT.

9. THE FOLLOWING MINIMUM CLEARANCES SHALL BE MAINTAINED UNLESS OTHERWISE NOTED:

UTILITY	CROSSING	PARALLEL
GAS MAIN	12"	12"
GAS SERVICE	12"	12"
WATER MAIN	12"	12"
WATER SERVICE	12"	12"
TELEPHONE/COMMUNICATION FACILITIES	12"	12"
STORM & SANITARY SEWERS	12"	12"
RAIL ROAD CROSSINGS	50"	50"

PLEASE NOTE, ANY DEVIATIONS FROM THESE MINIMUM CLEARANCES MUST BE REVIEWED AND APPROVED BY NATIONAL GRID & TRC.

UTILITY SERVICES AND LATERALS TO BUILDINGS ARE NOT SHOWN ON THESE PLANS. CONTRACTOR TO VERIFY THEIR LOCATIONS IN THE FIELD AND SUPPORT, PROTECT, MAINTAIN, AND WORK AROUND THEM AS REQUIRED IN ORDER TO COMPLETE THE PROPOSED WORK.

10. ALL CONTRACTORS SHALL COMPLY WITH MINIMUM WORKING CLEARANCES FROM ALL ENERGIZED OVERHEAD EQUIPMENT AND CONDUCTORS PER OSHA REGULATIONS 1910.3333. IF MINIMUM WORKING CLEARANCES CAN NOT BE MET, CONTRACTOR MUST CONTACT NATIONAL GRID TO EVALUATE ALTERNATIVE MEASURES. THESE MEASURES MAY INCUR ADDITIONAL COSTS.

11. CONDUIT TO BE PLACED AT MINIMUM 30" BELOW ELEVATION OF NEAREST PORTION OF ROAD PAVEMENT UNLESS OTHERWISE NOTED. MANHOLE ROOF TO HAVE A MINIMUM 18" OF COVER FROM FINISH GRADE UNLESS OTHERWISE NOTED.

12. ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL CODES, AS WELL AS THE REQUIREMENTS OF THE NATIONAL ELECTRIC SAFETY CODE, OSHA REGULATIONS AND NATIONAL GRID CONSTRUCTION STANDARDS/REQUIREMENTS.

13. AREAS WHERE EXCAVATION IS IN ROCK LEDGE, PROVIDE A SIX (6) INCH MINIMUM SELECT FILL CUSHION AROUND CONDUITS AND TWELVE (12) INCH CUSHION AROUND MANHOLE.

- PLEASE NOTE:
THE 12" MINIMUM CLEARANCES FROM OTHER UTILITIES SHALL BE MAINTAINED WHEREVER POSSIBLE. IF THE 12" MINIMUM CLEARANCE CANNOT BE ACHIEVED IN THE FIELD, CONTRACTOR TO USE ACCEPTABLE ALTERNATIVE MEANS TO PROTECT THE OTHER UTILITIES AND/OR CONFIRM APPROVAL FROM THE UTILITY OWNER FOR LESS THAN MINIMUM CLEARANCE.

REFER TO DRAWINGS:

CIVIL & PROFILE DRAWINGS	PROPOSED MANHOLE DRAWINGS	DETAIL DRAWINGS
PP-1	DET-1	DET-1
		DET-2

UTILITY	CROSSING	PARALLEL
GAS MAIN	12"	12"
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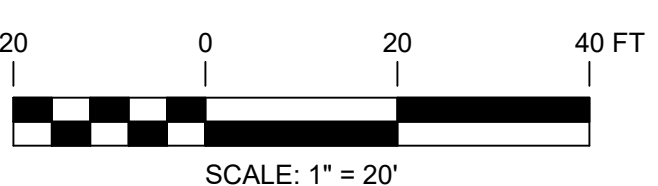
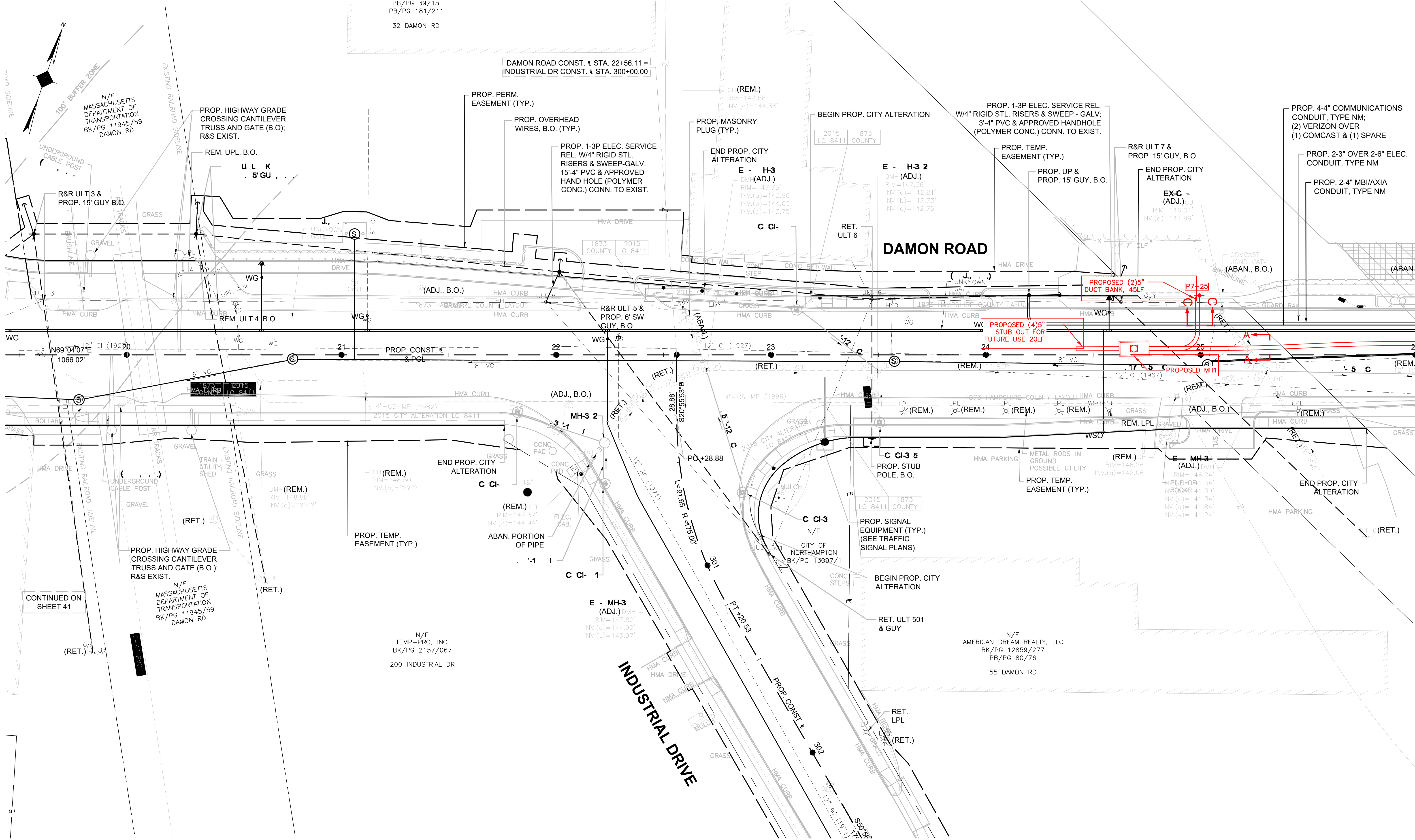
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NOTE: NOT ALL ABBREVIATIONS LISTED BELOW ARE USED FOR THIS PROJECT

#	NUMBER	HV	HIGH VOLTAGE
&	AND	INV	INVERT
@	AT	KV	KILOVOLT
>	GREATER THAN	KVA	KILOVOLT-AMPERE
<	LESS THAN	L	LENGTH
Ø	DIAMETER	LF	LINEAR FOOT
A	AMPERE	LV	LOW VOLTAGE
ABAN	ABANDONED	M	METER
ABAND	ABANDONED	MAX	MAXIMUM
AC	AIR CONDITIONER	MH	MANHOLE
AC	ALTERNATING CURRENT	MIN	MINIMUM
APPROX. APP	APPROXIMATE	MISC	MISCELLANEOUS
B/	BOTTOM OF	MJ	MECHANICAL JOINT
BIT	BITUMINOUS	MW	MONITORING WELL
BLDG	BUILDING	N	NORTH
BVCE	BEGIN VERTICAL CURVE ELEVATION	N/F	NOW OR FORMERLY
BVCS	BEGIN VERTICAL CURVE STATION	NGVD	NATIONAL GEODETIC VERTICAL DATUM
C/C	CENTER TO CENTER	NIOSH	NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH
CB	CATCH BASIN	PC	POINT OF CURVATURE
CI	CAST IRON	PCB	POLYCHLORINATED BIPHENYL
C	CENTERLINE	PE	POLYETHYLENE
CLR	CLEAR	PILC	PAPER IN LEAD COVERED CABLE
CMF	CORRUGATED METAL PIPE	PIV	POST INDICATOR VALVE
CMPA	CORRUGATED METAL PIPE ARCH	PROP	PROPOSED
CMPT	COMPACT CABLE	PT	POINT, POINT OF TANGENCY
COM	COMMUNICATIONS	PVC	POLYVINYL CHLORIDE
CONC	CONCRETE	PVI	POINT OF VERTICAL INTERSECTION
CP	CONTROL POINT	R	RADIUS
CS	CARBON STEEL	RCP	REINFORCED CONCRETE PIPE
CU	COPPER	REQ'D	REQUIRED
CW	CLEAN WATER	RET	RETAINING
D	DIAMETER	RR	RAIL ROAD
DC	DIRECT CURRENT	S	SLOPE
DI	DUCTILE IRON	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
DIA	DIAMETER	SCH	SCHEDULE
DMH	DRAIN MANHOLE	SD	STORM DRAIN
DWG	DRAWING	SF	SQUARE FEET
E	EAST	SMH	SANITARY MANHOLE
EL	ELEVATION	SQ	SQUARE
ELEC	ELECTRIC	SS	STAINLESS STEEL
ELEV	ELEVATION	STA	STATION
EMH	ELECTRIC MANHOLE	STL	STEEL
EOP	EDGE OF PAVEMENT	STORM	STORMWATER
EUE	EXISTING UNDERGROUND ELECTRIC	T&B	TOP AND BOTTOM
EUT	EXISTING UNDERGROUND TELEPHONE	T/	TOP OF
EVCE	END VERTICAL CURVE ELEVATION	TEL	TELEPHONE
EVCS	END VERTICAL CURVE STATION	TV	TELEVISION
EW	EACH WAY	Typ	TYPICAL
EX, EXIST	EXISTING	UE	UNDERGROUND ELECTRIC
FFE	FINISH FLOOR ELEVATION	UG	UNDERGROUND
FM	FORCE MAIN	UNO	UNLESS NOTED OTHERWISE
FO	FIBER OPTIC	V	VOLT
GALV	GALVANIZED	var	VOLT-AMPERE REACTIVE
GEN	GENERATOR	VC	VERTICAL CURVE
GRAN	GRANITE	VCP	VITREOUS CLAY PIPE
HDD	HORIZONTAL DIRECTIONAL DRILLING	VERT	VERTICAL
HDPE	HIGH DENSITY POLYETHYLENE	VP	VALVE PIT
HH	HANDHOLE	W	WATER
HORIZ	HORIZONTAL	W/	WITH

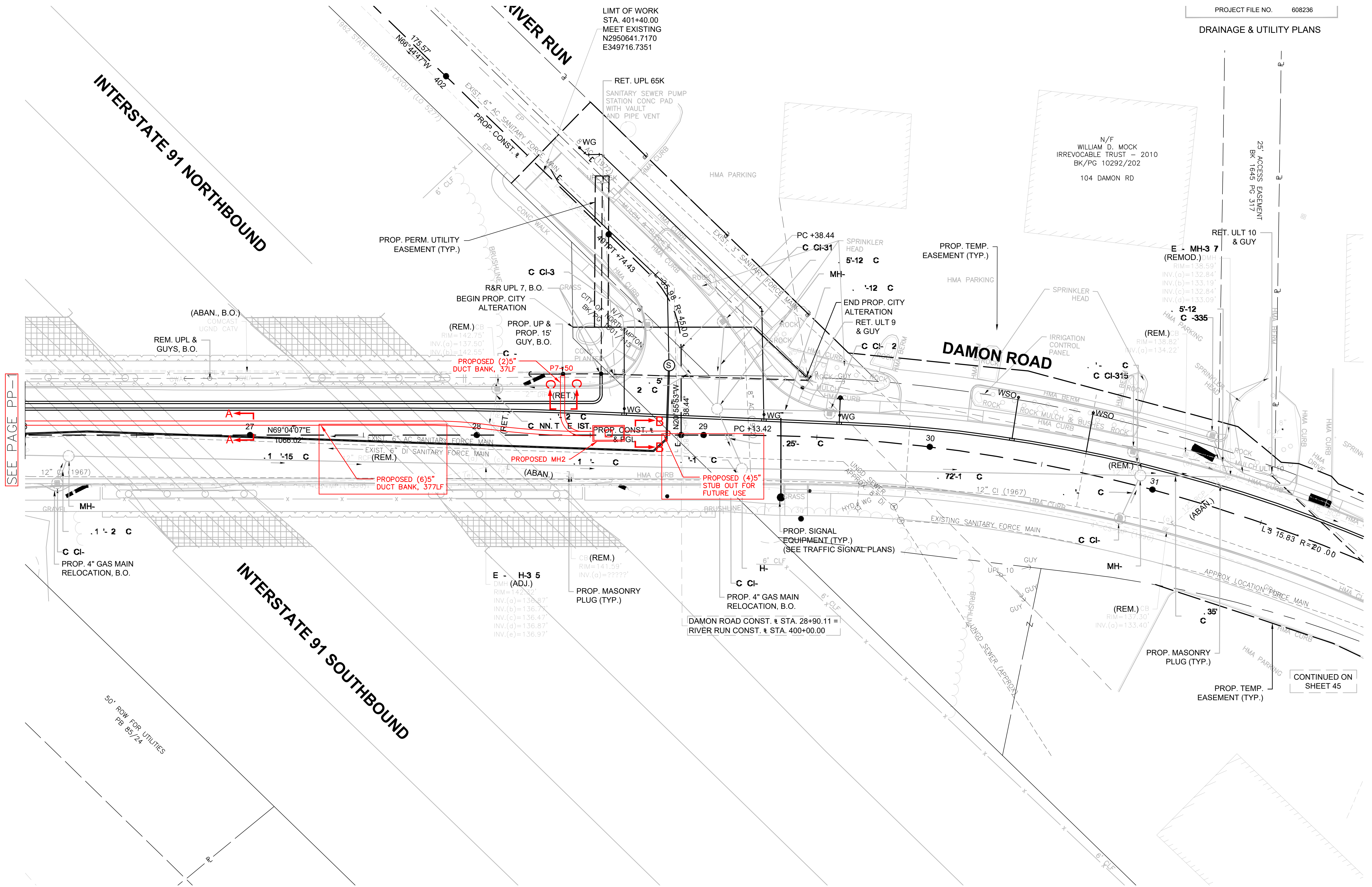
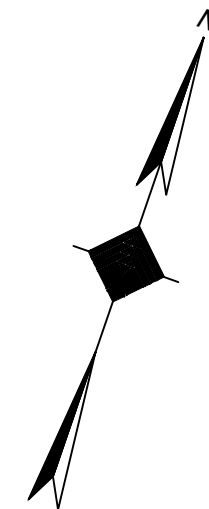
	CATCH BASIN
	DRAIN LINE/MANHOLE
	SEWER LINE/MANHOLE
	COMBINED SEWER/RAIN-MANHOLE
	ELECTRIC LINE/MANHOLE
	LIGHT POLE
	GAS LINE/GATE
	RETIRED GAS LINE
	HYDRANT
	WATER LINE (LOW PRESSURE)/GATE
	WATER LINE (HIGH PRESSURE)/GATE
	ABANDONED WATER LINE
	TELEPHONE LINE/MANHOLE
	TELEPHONE LINE
	CONCRETE CURB
	BITUMINOUS CONCRETE CURB
	VERTICAL GRANITE CURB
	CHAIN LINK FENCE
	WOOD STOCKADE FENCE
	HANDRAIL
	METAL RAILING FENCE
	EDGE OF GRAVEL
	APPROXIMATE STREET LINE
	WORCESTER HIGHWAY BOUND
	STONE BOUND/DRILL HOLE
	DRILL HOLE
	IRON PIPE/PIN
	FOUND
	BUILDING
	PARCEL ADDRESS
	MONUMENT/TRVERSE POINT W/ APPROXIMATE STATE PLANE COORDINATE
	BIT. CONC.
	BY RECORD
	BOLLARD
	BRICK RETAINING WALL
	CONCRETE BLOCK RETAINING WALL
	CONCRETE RETAINING WALL
	CONCRETE STAIRS
	COBBLESTONE EDGING
	PROPOSED PADMOUNT TRANSFORMER
	EXISTING 2-WAY MANHOLE
	PROPOSED 2-WAY MANHOLE
	EXISTING SWITCHGEAR MANHOLE
	PROPOSED SWITCHGEAR MANHOLE

124 Grove St. Franklin, MA 02038 PROJECT NO:270728							DL DESIGNED AS DRAWN CHECKED APPROVED			nationalgrid MASSDOT DAMON RD LAYOUT PLAN						
REV	DESCRIPTION				DATE	DES	CHK	APP								
☐	☐					☐	☐	☐	☐	REVIEW 1	3/24/21		G-1	REV.	☐	
☐	☐					☐	☐	☐	☐	REVIEW 2	DRAWN NTS SCALE		WR#23303524			

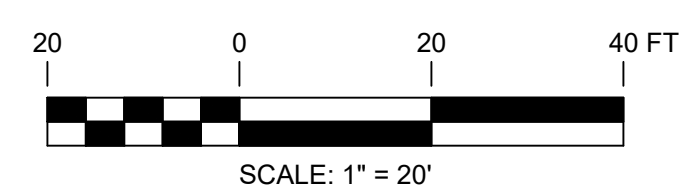


 TRC 124 Grove St. Franklin, MA 02038		PROJECT NO. 270728			
REV	DESCRIPTION	DATE	DES	CHK	APP

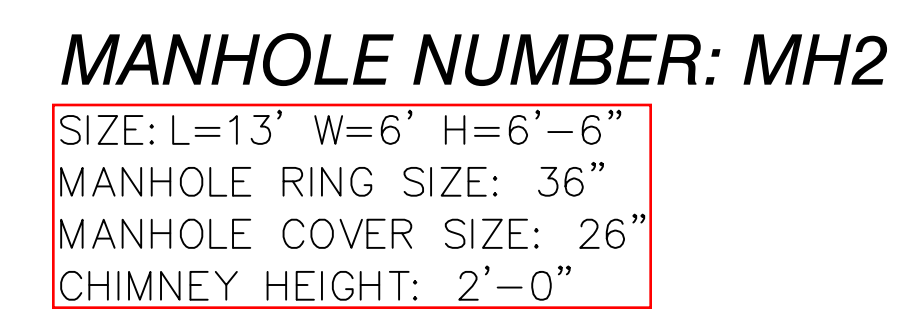
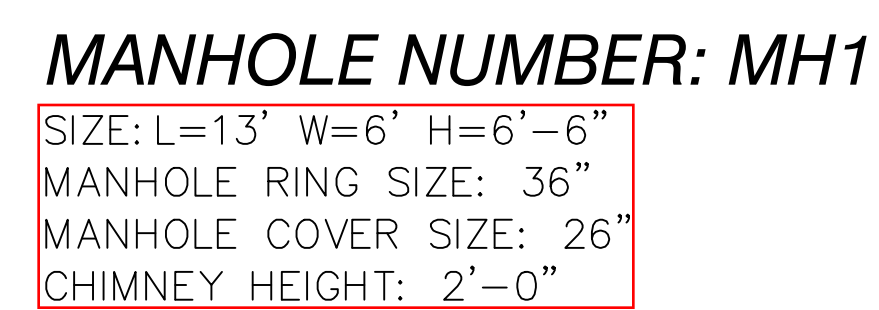
DESIGNED	AS		MASSDOT DAMON RD LAYOUT PLAN	PP-1	REV. 0
DRAWN	AS				
CHECKED	AS				
APPROVED	AS	DATE: 3/24/21 SCALE: AS NOTED		WR# 23303524	

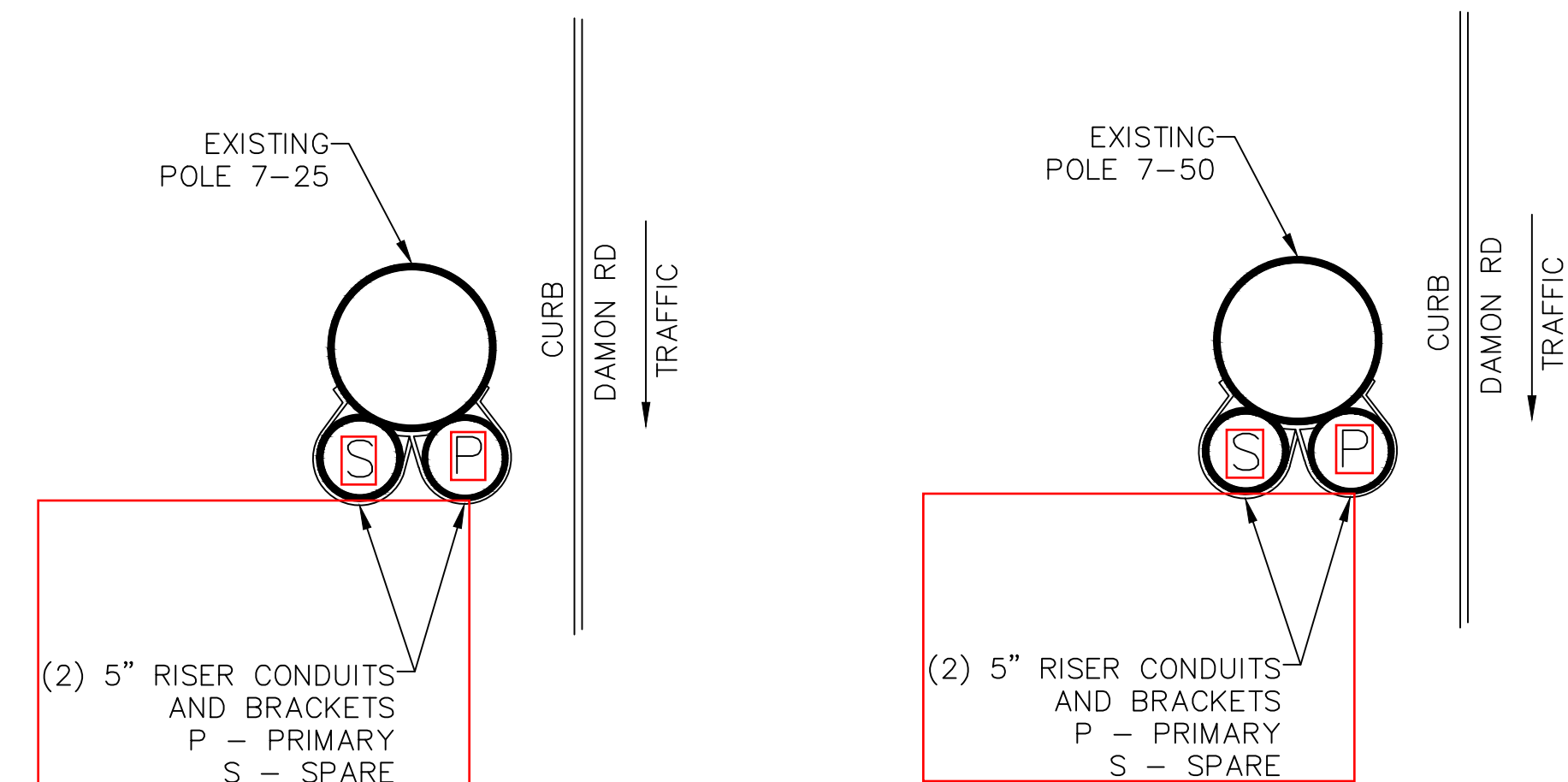
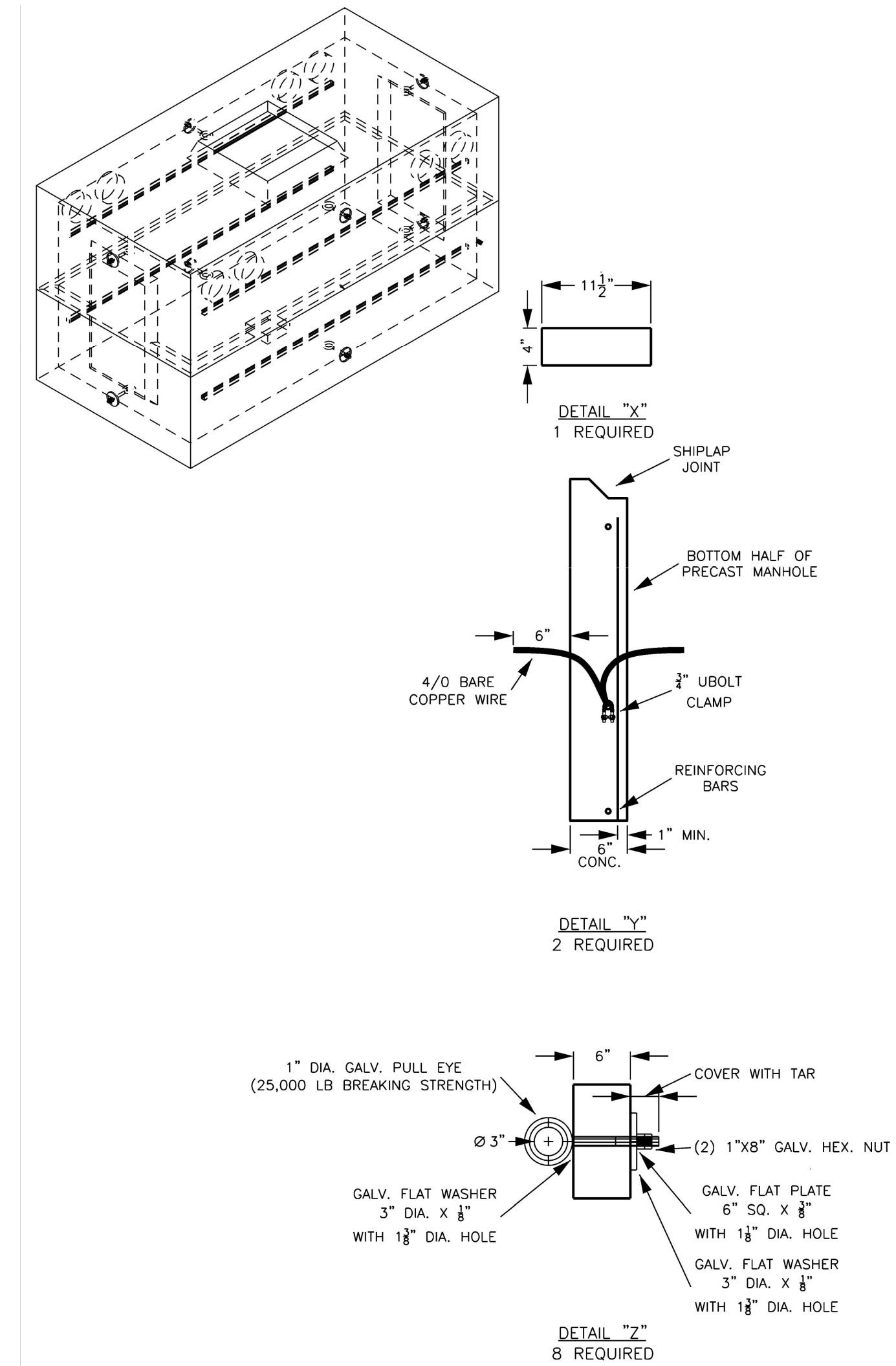
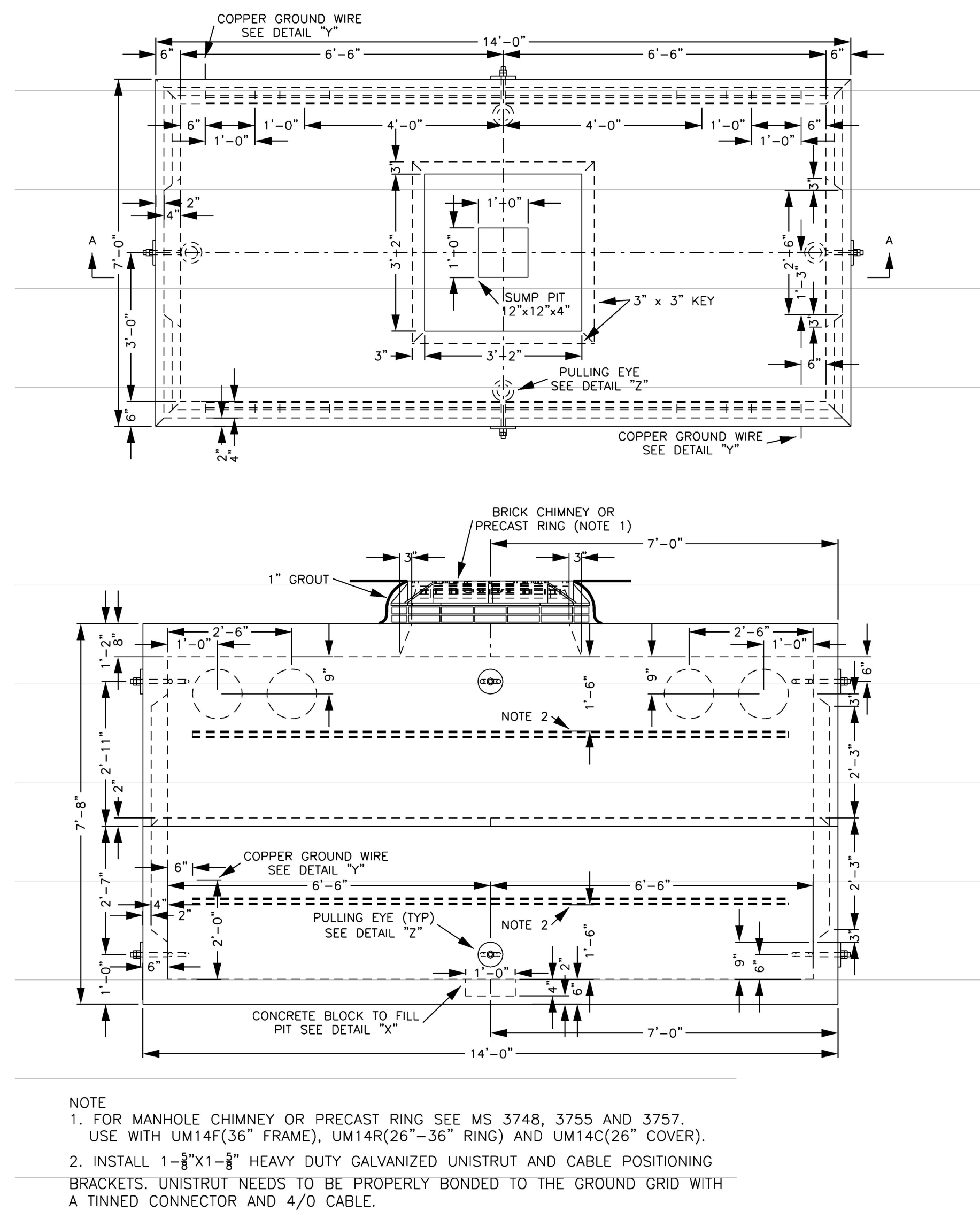
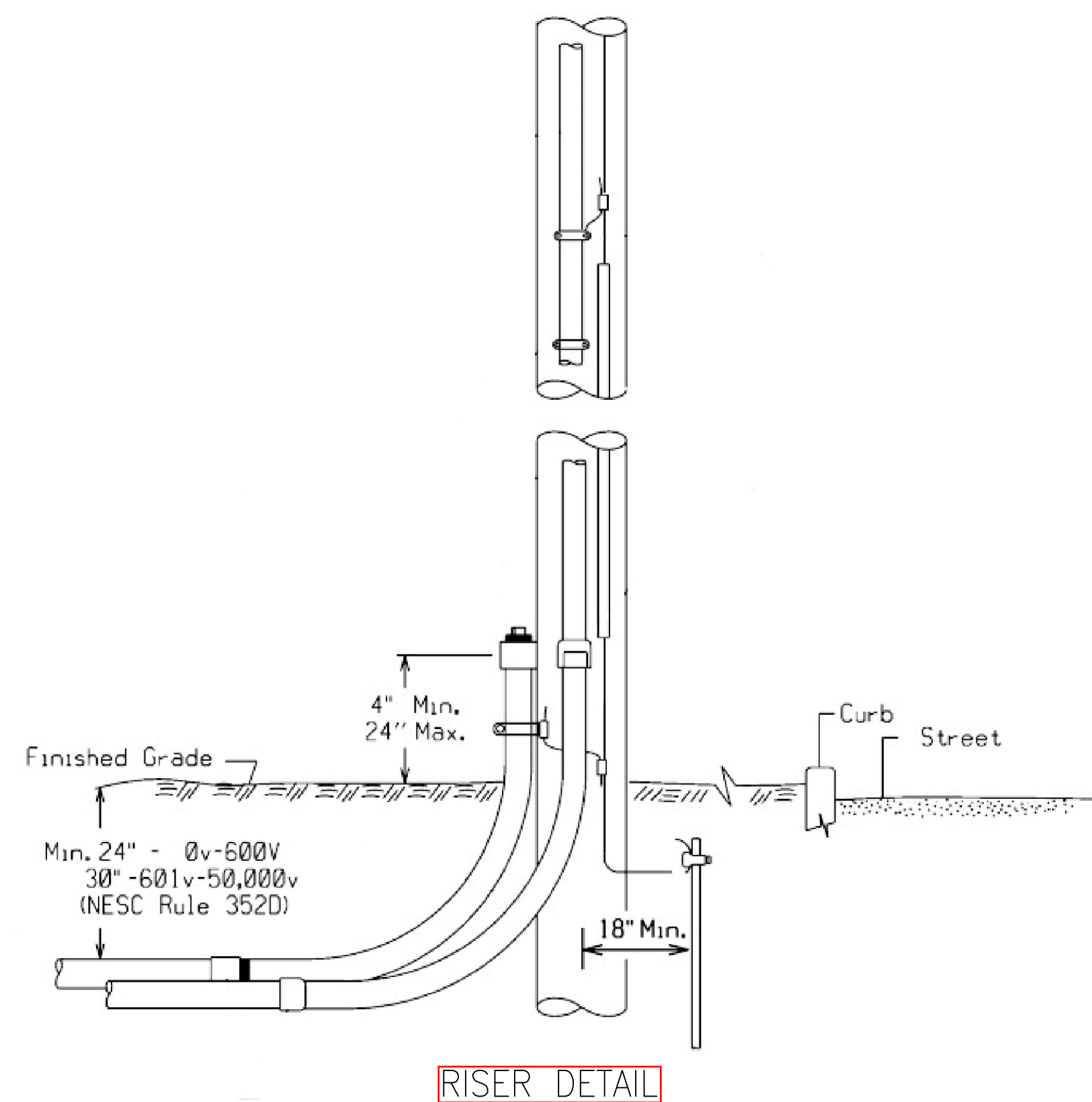
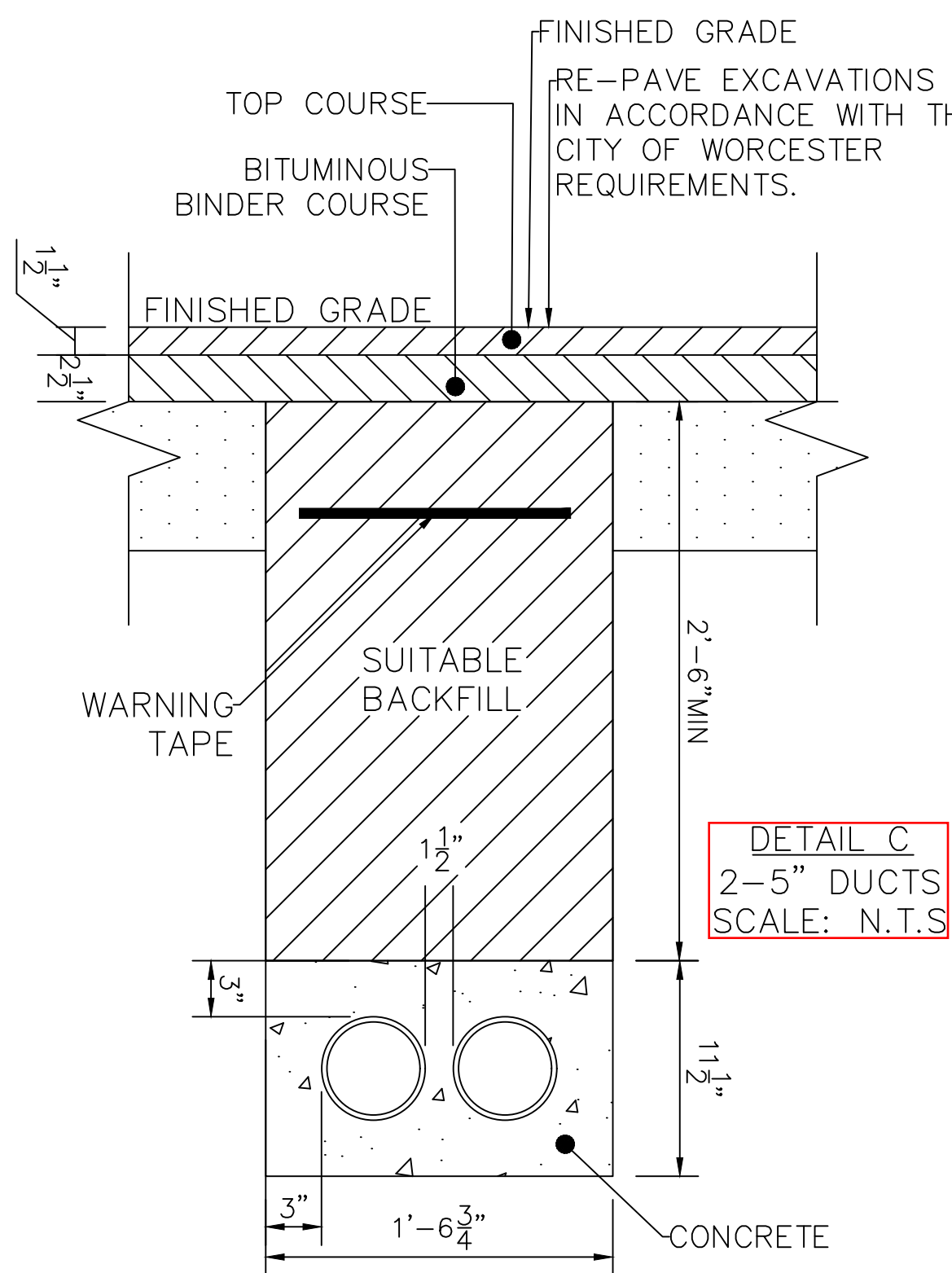
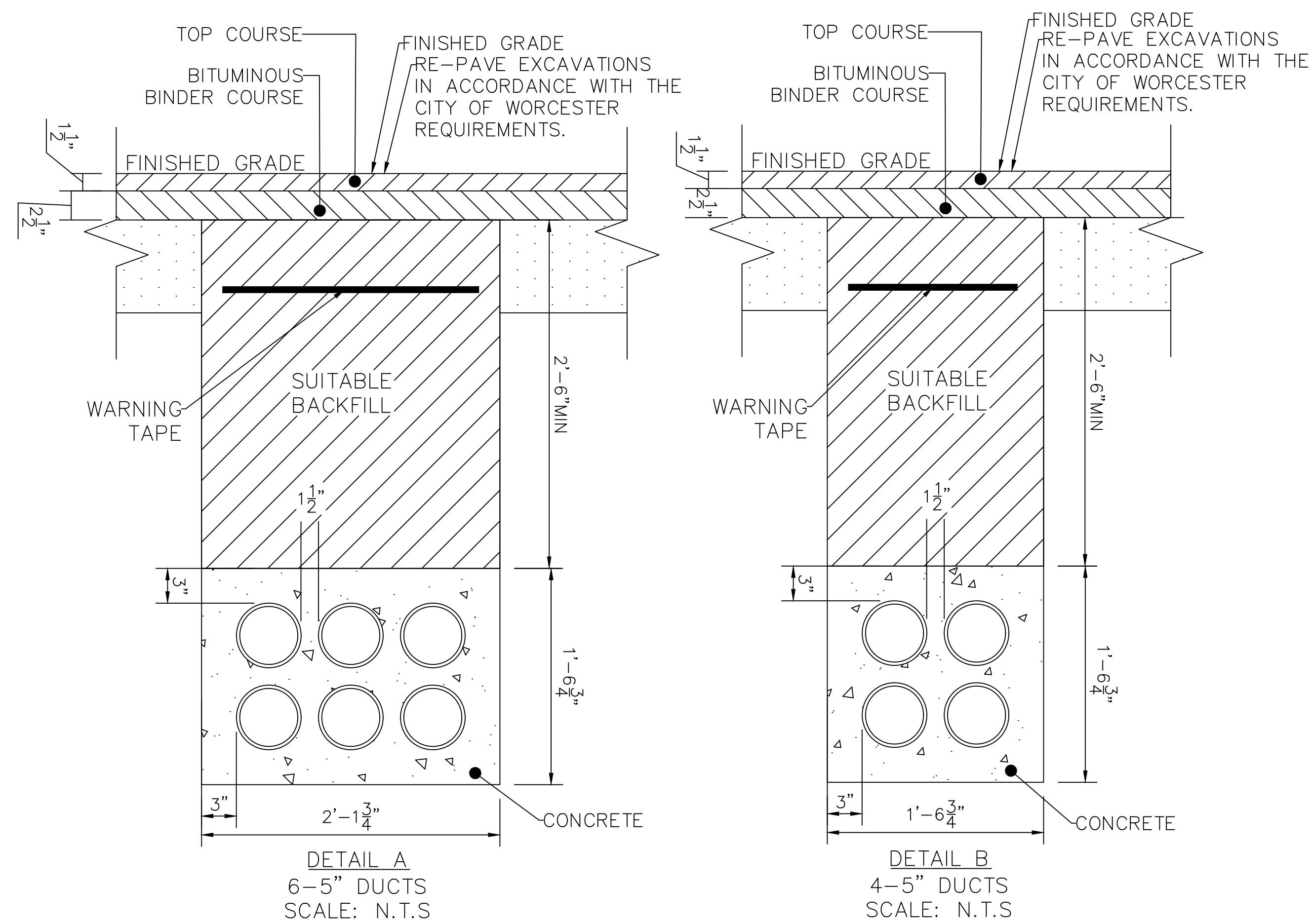


PROJECT FILE NO. 608236
DRAINAGE & UTILITY PLANS



 124 Grove St. Franklin, MA 02038						PROJECT NO. 270728					
REV						DATE				MASSDOT DAMON RD	
DESCRIPTION						DES				LAYOUT PLAN	
CHECKED						CHK				PP-2	
APPROVED						APP				WR#23303524	
REVIEW 1						3/24/21				REV. 0	
REVIEW 2						AS NOTED					





					nationalgrid				
124 Grove St. Franklin, MA 02038					MASSDOT DAMON RD LAYOUT PLAN				
PROJECT NO: 270728					DET-2				
REV. 1					REV. 1				
REV. 2					REV. 2				

#48 DAMON RD

18D-035-001

OWNER: KERRYMAN PARTNERSHIP

P.O. BOX 60266, FLORENCE MA 01062

PATCH EAST OF LANE PLANT ROAD

18D-057-001

OWNER: CITY OF NORTHAMPTON

210 MAIN ST, NORTHAMPTON MA 01060

#55 DAMON RD

18D-065-001

OWNER: ROBERT S. THOMAS

55 DAMON RD, NORTHAMPTON MA 01060

#137 DAMON RD

18D-005-001

OWNER: EASTHAMPTON MAHADEV LLC

8 KINSBERRY WAY, EASTHAMPTON MA 01027