TOWN OF
WAKEFIELD

STEPHEN P. MAIO
TOWN ADMINISTRATOR

JOSEPH P. CONWAY
DIRECTOR OF PUBLIC WORKS

WILLIAM J. RENAULT, P.E.
TOWN ENGINEER

TOWN OF WAKEFIELD, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

QUANNAPOWITT PARKWAY
ROADWAY IMRPOVEMENTS
NOTICE OF INTENT PLANS

APRIL 2024

WILLIAM J. LEE MEMORIAL TOWN HALL
ONE LAFAYETTE STREET
WAKEFIELD, MA 01880
(781) 246-6300 tele
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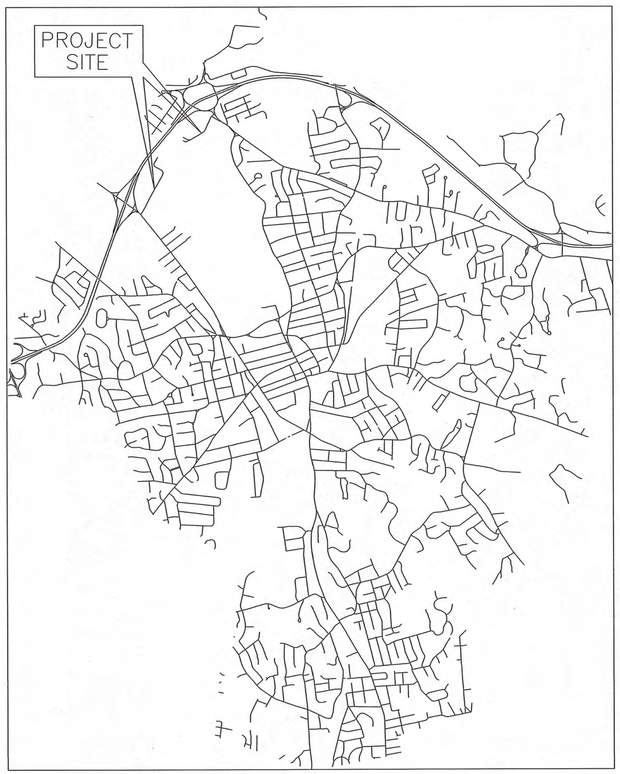


LOCUS PLAN
NOT TO SCALE

DRAWING INDEX

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 2020, THE 2020 SUPPLEMENTAL SPECIFICATIONS, THE STANDARD SPECIAL PROVISIONS, THE 2017 MASS DOT CONSTRUCTION STANDARD DETAILS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, AND THE CONTRACT SPECIAL PROVISIONS.

2. ALL LOCATIONS OF SUBSURFACE UTILITIES AND STRUCTURES ON THE ATTACHED PLANS WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. THE SIZE, TYPE, AND LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING ALL UTILITIES ON SITE PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING UTILITIES SHOWN ON THE PLANS AND SHALL BE RESPONSIBLE FOR LOCATING ANY ADDITIONAL UTILITIES NOT SHOWN. THE CONTRACTOR IS REQUIRED TO CONTACT DIG–SAFE (888–344–7233) 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY UTILITY LINE LOCATIONS AS NECESSARY. IF NECESSARY, THE CONTRACTOR SHALL HIRE A PRIVATE MARKING COMPANY TO LOCATE ON–SITE UTILITIES AT NO ADDITIONAL COST TO THE OWNER. THE TOWN OF WAKEFIELD DOES NOT WARRANT OR GUARANTEE THE THE LOCATION OF ANY UTILITIES, HEREON.

3. IN CASE OF DISCREPANCY BETWEEN PLAN SET NOTES AND SPECIFICATIONS THE SPECIFICATIONS SHALL GOVERN.

4. LOCATION OF PROPOSED UTILITIES MAY BE ALTERED IN THE FIELD BY THE ENGINEER TO SUIT FIELD CONDITIONS.

5. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A CONSTRUCTION SCHEDULE DELINEATING THE SEQUENCE OF WORK AND ESTIMATED TIME OF COMPLETION OF EACH SEGMENT OF WORK, PRIOR TO THE COMMENCEMENT OF WORK.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT.

7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ALL WORK INCLUDED UNDER THIS CONTRACT. THE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SAFETY BARRIERS, WARNING FLASHERS, ETC., AS REQUIRED BY THE CONDUCT OF THE WORK FOR THE PROTECTION OF WORKERS AND NON– WORKERS ALIKE. THE CONTRACTOR'S ATTENTION IS DIRECTED TO OSHA AND MA DLS REQUIREMENTS.

8. THE CONTRACTOR SHALL PLAN AND PERFORM TEST PIT EXCAVATION WELL IN ADVANCE OF COMMENCING CONSTRUCTION AND ORDERING MATERIALS TO ALLOW TIME TO REVIEW ACTUAL CONDITIONS ENCOUNTERED. TEST PITS NOT SPECIFICALLY IDENTIFIED SHALL BE EXCAVATED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER.

9. ACCESS TO ALL EXISTING BUILDINGS SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION BY THE CONTRACTOR.

10. DURING THE COURSE OF CONSTRUCTION ANY DAMAGE TO FENCES, GUARD RAILS, PATHS, DRIVEWAYS, STAIRS, AND VEGETATION SHALL BE REPAIRED OR REPLACED AND RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE TOWN.

11. THE CONTRACTOR SHALL RESET ALL WATER, SEWER, AND DRAINAGE FRAMES, GRATES, AND BOXES TO THE PROPOSED FINISH SURFACE GRADE.

12. THE CONTRACTOR IS RESPONSIBLE FOR SETTING AND MAINTAINING ALL GRADES AND GRADE STAKES. CPW MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO PAVING IN ORDER TO ENSURE ADEQUATE TIME TO VERIFY THE GRADES AND ENSURE PROPER PITCH OF ROADWAYS AND DRIVEWAYS. ANY DISCREPANCIES OR DEVIATIONS FROM THE DESIGN PLANS MAY RESULT IN THE RE–GRADING OF SAID DEVIATIONS. THIS SHALL BE DONE AT NO ADDITIONAL EXPENSE TO THE TOWN, REGARDLESS OF THE SIZE OF THE AREA, TIME NEEDED, OR RE–MOBILIZATION EFFORTS.

13. PLANS AND TOPOGRAPHIC INFORMATION ARE PREPARED FROM FIELD SURVEY PERFORMED BY VARIOUS SOURCES.

14. RIGHT OF WAY INFORMATION OBTAINED FROM PLANS RECORDED IN SOUTH MIDDLESEX REGISTRY OF DEEDS.

15. LOCATION OF UNDERGROUND UTILITIES OBTAINED FROM WAKEFIELD GIS AND ARE REFERENCE INFORMATION ONLY. "DIG–SAFE" SHALL BE UTILIZED AS SPECIFIED.

NOTICE OF INTENT
APRIL 2024

LEGEND:

- EXISTING DRAINAGE CATCH BASIN
- EXISTING DRAIN MANHOLE
- EXISTING SEWER MANHOLE
- **PROPOSED SEWER MANHOLE**
- **PROPSED DRAINAGE CATCH BASIN**
- EXISTING UTILITY POLE
- EXISTING GUY WIRE
- EXISTING MAIL BOX
- EXISTING WATER GATE VALVE
- **PROPOSED WATER GATE VALVE**
- EXISTING HYDRANT
- **PROPOSED HYDRANT ASSEMBLY**
- EXISTING WATER SHUT OFF
- **PROPOSED WATER SHUT OFF**
- EXISTING GAS VALVE
- **EXISTING DRAIN LINE**
- EXISTING SEWER LINE
- **PROPOSED 8" PVC SEWER LINE**
- EXISTING SEWER SERVICE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING ELECTRIC LINE
- **EXISTING RIGHT OF WAY**
- HEDGE LINE
- STONE WALL
- EXISTING GRANITE CURB
- EXISTING SLOPED VERTICAL GRANITE CURB
- EXISTING FENCE
- EXISTING 5' CONTOURS
- EXISTING 1' CONTOURS
- **PROPOSED CONTOUR WITH ELEVATION**
- PROPOSED EROSION CONTROL
- **EXISTING BOUND**
- EXISTING GRADE
- **EXISTING MAG NAIL**
- **EXISTING IRON ROD OR PIPE**
- EXISTING PUBLIC LIGHT POST
- EXISTING PRIVATE LIGHT POST
- EXISTING ELECTRIC BOX
- EXISTING CATV BOX
- EXISTING BITUMINOUS CONCRETE SIDEWALK
- **PROPOSED HMA SIDEWALK/SHARED–USE–PATH**
- EXISTING CONCRETE SIDEWALK
- **PROPOSED CONCRETE WHEELCHAIR RAMP**
- **PROPOSED DETECTABLE WARNING PANEL**
- WETLAND REPLICATION AREA
- EXISTING BRICK SIDEWALK
- EXISTING FLAGSTONE WALKWAY
- EXISTING GRAVEL OR STONEDUST WALKWAY
- EXISTING TREE W/TRUNK DIAMETER

EROSION AND SEDIMENTATION CONTROL PLAN

SEDIMENTATION CONTROL SYSTEM – THE SEDIMENTATION CONTROL SYSTEM SHALL CONSIST OF EROSION CONTROL FIBER ROLLS. 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 DESIGNED TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE WETLANDS OR WATERCOURSES. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FOR THE UPSTREAM SIDE OF THE ROLL. 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 SYSTEM ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. ENVIRONMENTAL MONITORING REPORTS, AS REQUIRED BY THE TOWN'S STORMWATER REGULATIONS SHALL BE PROVIDED TO THE ENGINEERING DIVISION, REGARDING EROSION CONTROL INSPECTION AND MAINTENANCE.

EROSION CONTROL SILT SACKS SHALL BE PLACED IN EXISTING CATCH BASINS WHERE SEDIMENT MAY ENTER THE CATCH BASIN OR AS DIRECTED BY THE RESIDENT ENGINEER. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED ROM THE SACKS. 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. SILT SACKS ARE 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 EROSION CHECKS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. THE RE BAR NEEDED TO LIFT AND DUMP THE SACKS TO REMOVE SEDIMENT SHALL NOT BE LEFT IN THE ROADWAY UNATTENDED FOR ANY AMOUNT OF TIME.

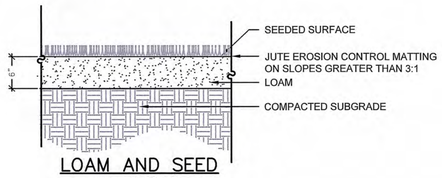
IN ALL AREAS, REMOVAL OF TREES, BUSHES, AND OTHER VEGETATION, AND DISTURBANCE TO THE SOIL, SHALL BE APPROVED BY THE RESIDENT ENGINEER OR ITS DESIGNEE.

EROSION AND SEDIMENT CONTROL MAINTENANCE PROCEDURES

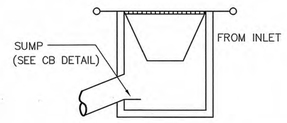
DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED FOR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RE–SPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING AS TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE CONTRACTOR OR ITS DESIGNATED ENVIRONMENTAL MONITOR. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE ENVIRONMENTAL MONITOR OR THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, AND PIPES AT THE 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.



LOAM AND SEED
NOT TO SCALE



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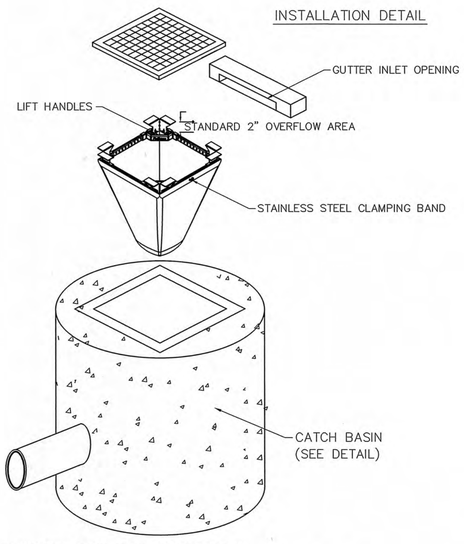
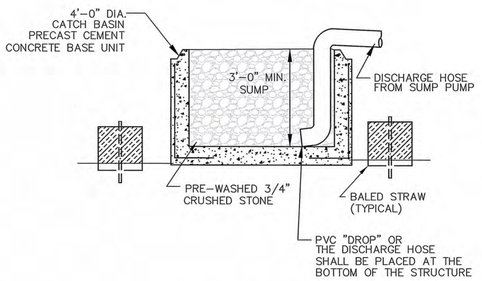
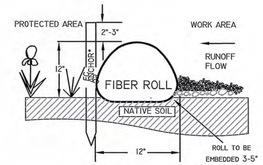


NOTE:
1. SILTSACKS SHALL BE FLEXSTORM CATCH–IT OR APPROVED EQUAL
2. SILTSACKS SHALL BE INSTALLED IN ALL CATCH BASIN UNTIL DRAINAGE AREA HAS BEEN FULLY STABILIZED.

EROSION CONTROL SILT SACK
N.T.S.

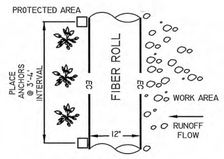


DEWATERING BASIN
N.T.S.

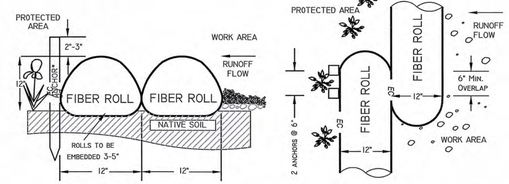


FIBER ROLL
SECTION VIEW

* ANCHOR STAKES TO BE 1"x1"x24" WOOD, AND DRIVEN TO 2"-3" ABOVE THE TOP OF THE FIBER ROLL.



FIBER ROLL
TOP VIEW

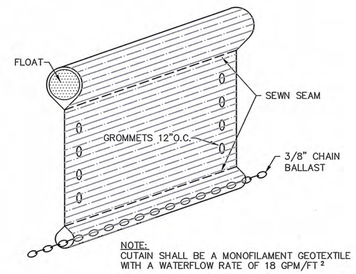


FIBER ROLL
OVERLAP END VIEW

FIBER ROLL
OVERLAP TOP VIEW

* ANCHOR STAKES TO BE 1"x1"x24" WOOD, AND DRIVEN TO 2"-3" ABOVE THE TOP OF THE FIBER ROLL.

EROSION CONTROL
FIBER ROLL
N.T.S.



NOTE:
CUTAIN SHALL BE A MONOFILAMENT GEOTEXTILE WITH A WATERFLOW RATE OF 18 GPM/FT²

TURBIDITY CURTAIN
N.T.S.

TOWN OF WAKEFIELD
Public Works • Engineering Division • 1 Lafayette Street Wakefield, MA 01880

REVISIONS

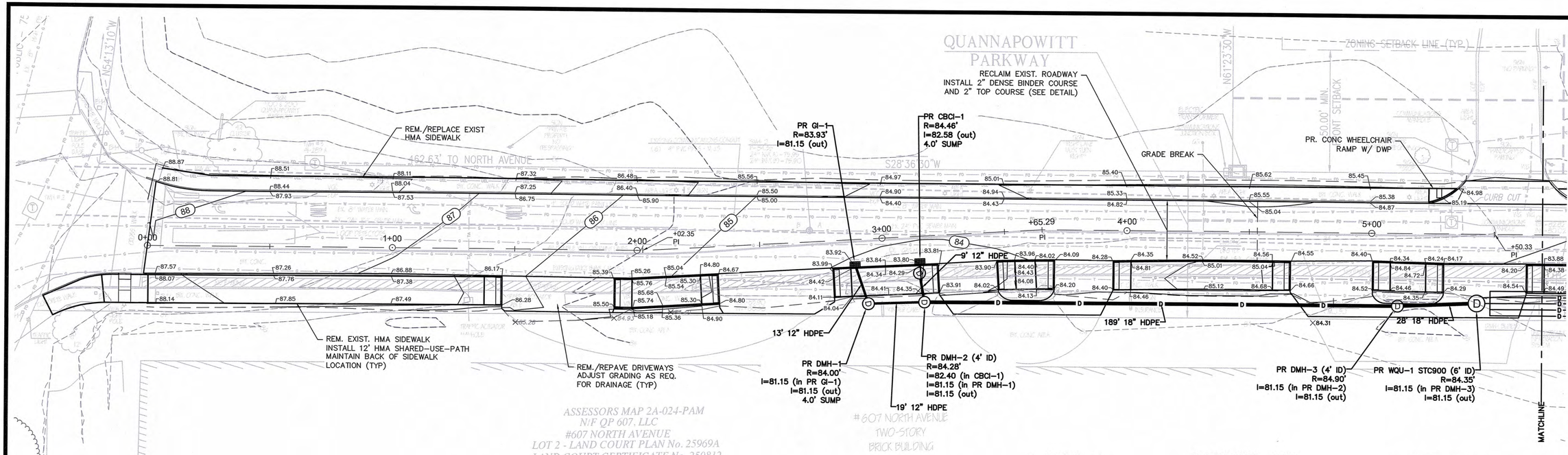
DESIGN: TWW
DRAFTED: TWW
CHECKED: WJR
SCALE:

GENERAL NOTES & LEGEND
QUANNAPOWITT PARKWAY
ROADWAY IMRPOVEMENTS
APRIL 2024

10182

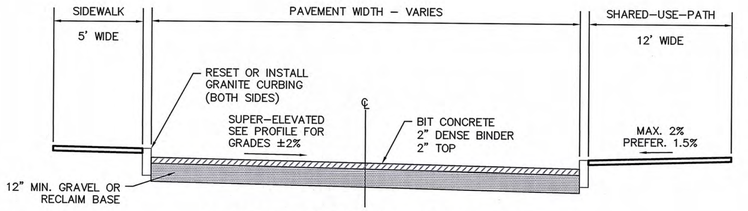
SHEET
1 OF 10

GN-1



PLAN VIEW

SCALE: 1" = 20'



TYPICAL SECTION – RECLAIM

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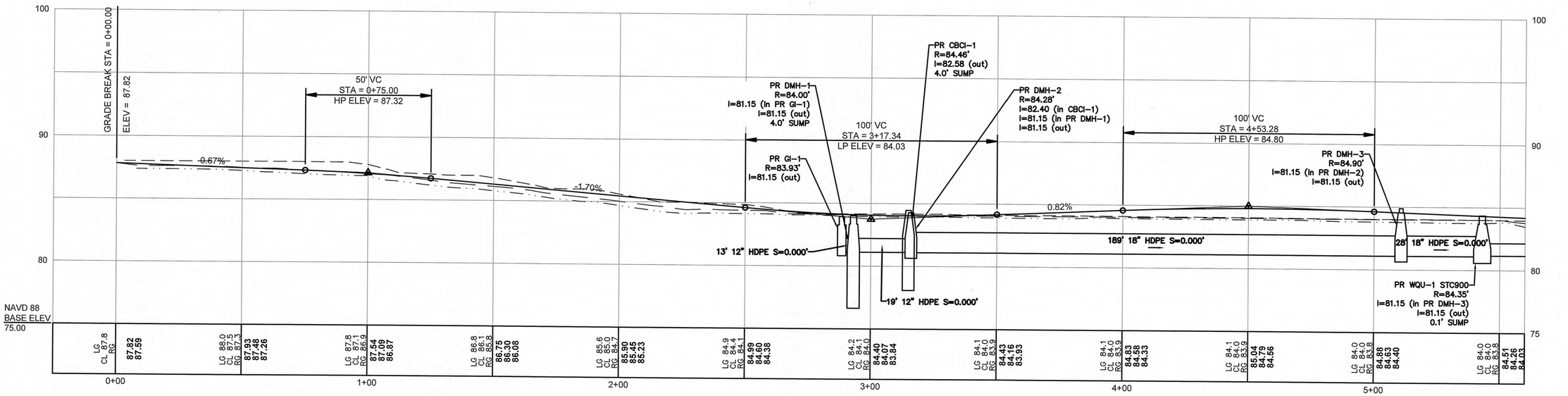

PROFILE VIEW

SCALE: HOR. 1" = 20' / VERT. 1" = 4'

HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

NOTICE OF INTENT
APRIL 2024

TOWN OF WAKEFIELD
Public Works • Engineering Division • 1 Lafayette Street Wakefield, MA 01880

WILLIAM J. REMAUD JR. No. 48185 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS
4/4/24

REVISIONS

DESIGNED TWW
DRAWN TWW
CHECKED WJR
SCALE AS SHOWN

GRADING & DRAINAGE PLAN
QUANNAPOWITT PARKWAY
ROADWAY IMPROVEMENTS
APRIL 2024

10182

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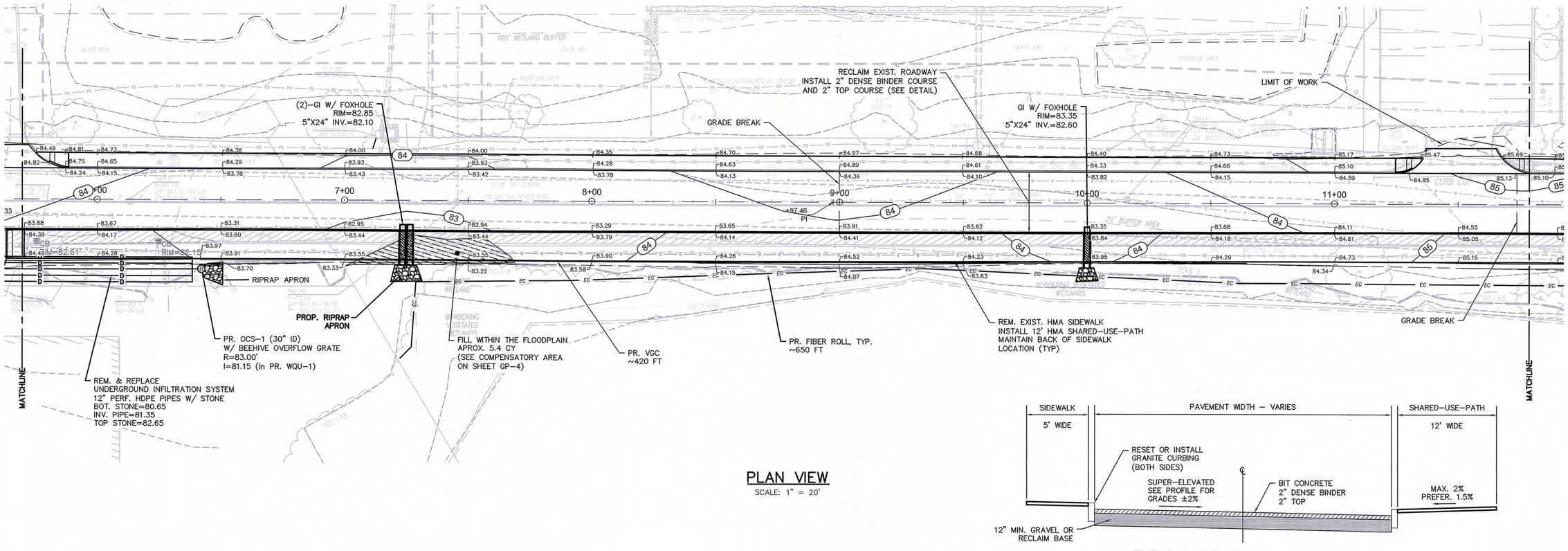

PLAN VIEW

SCALE: 1" = 20'

TYPICAL SECTION – RECLAIM

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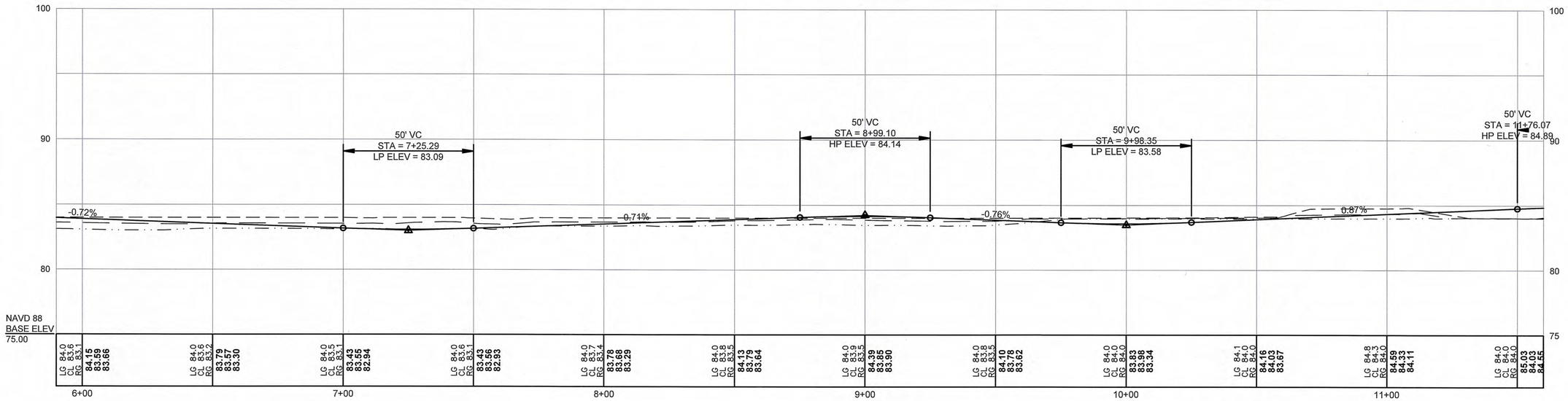

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VER. SCALE IN FEET
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NOTICE OF INTENT
APRIL 2024

TOWN OF WAKEFIELD
Public Works • Engineering Division • 1 Lafayette Street Wakefield, MA 01880

COMMONWEALTH OF MASSACHUSETTS
WILLIAM J. RENAULT, JR.
CIVIL
No. 48186
REGISTERED PROFESSIONAL ENGINEER
4/4/24

REVISIONS

DESIGN: TWW
DRAFT: TWW
CHECK: WJR
SCALE: AS SHOWN

GRADING & DRAINAGE PLAN
QUANNAPOWITT PARKWAY
ROADWAY IMRPOVEMENTS
APRIL 2024

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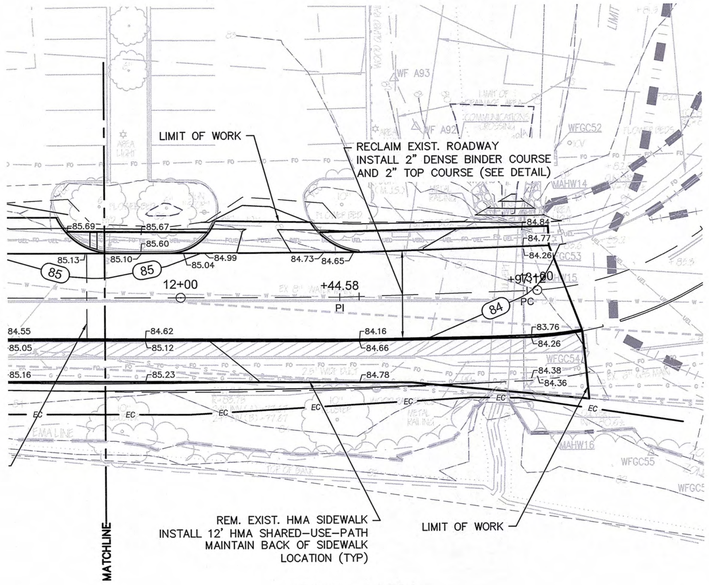
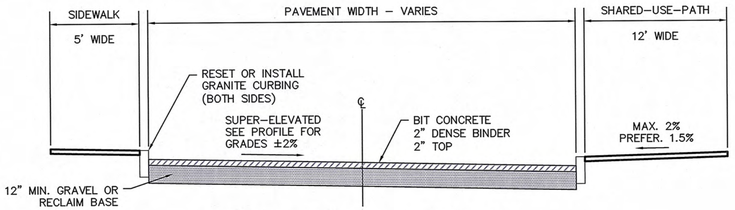


PLAN VIEW

SCALE: 1" = 20'



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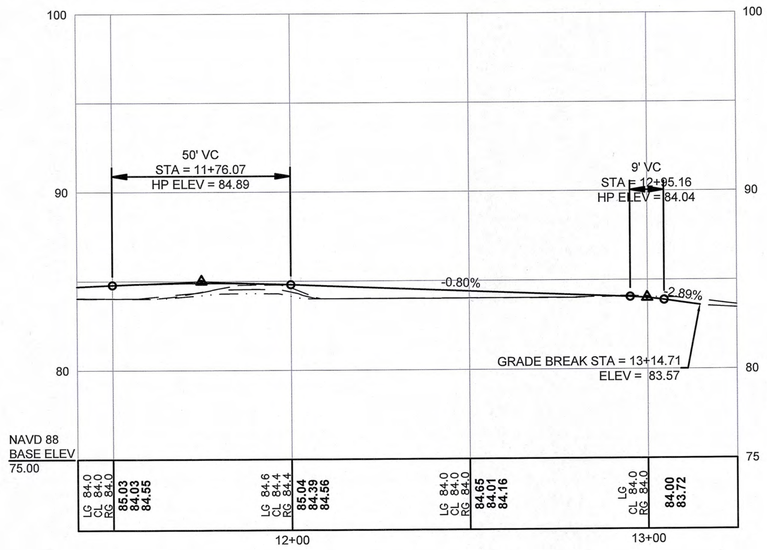

PROFILE VIEW

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HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

NOTICE OF INTENT
APRIL 2024

TOWN OF WAKEFIELD
Public Works • Engineering Division • 1 Lafayette Street Wakefield, MA 01880

REVISIONS

DESIGN TWW
DRAFTED TWW
CHECKED WJR
SCALE AS SHOWN

GRADING & DRAINAGE PLAN
QUANNAPOWITT PARKWAY
ROADWAY IMRPOVEMENTS
APRIL 2024

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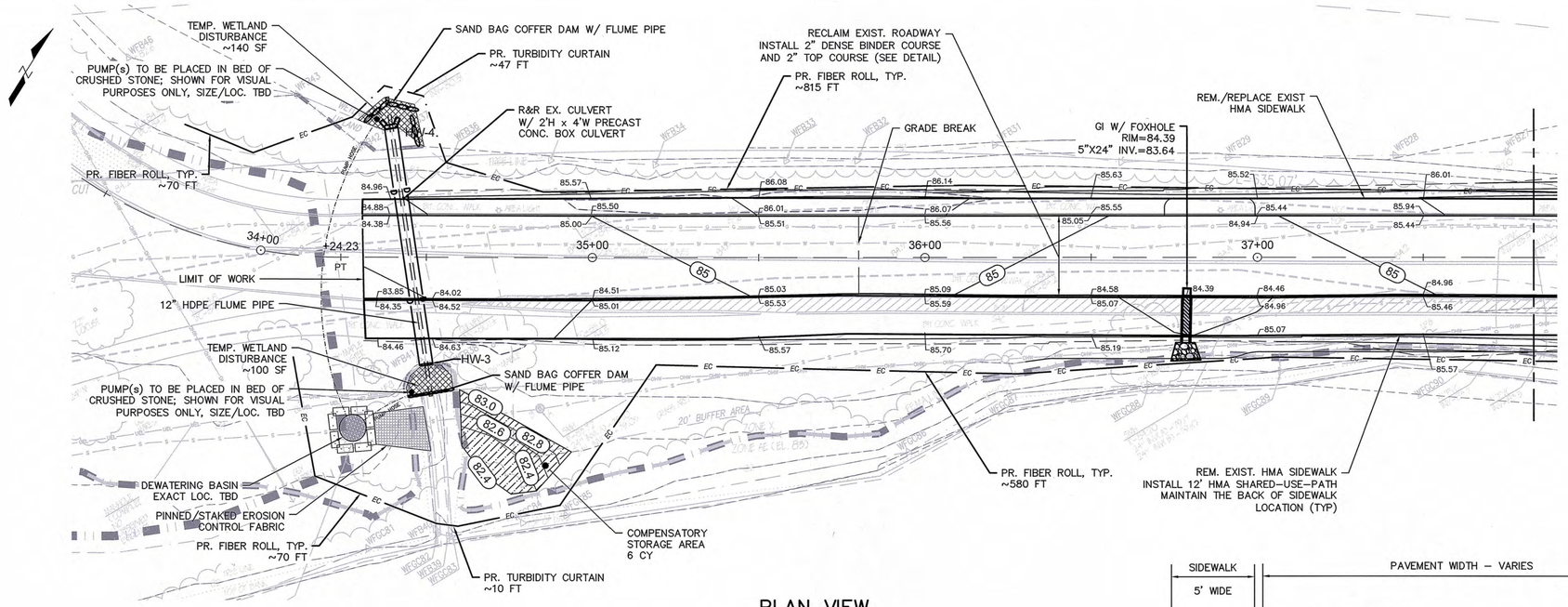

PLAN VIEW

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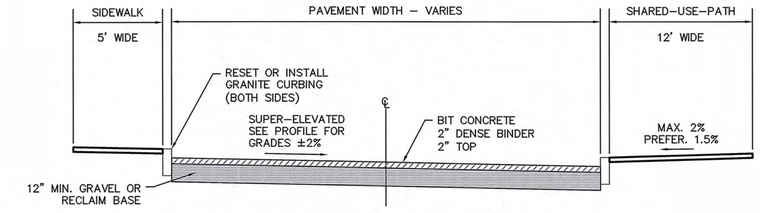

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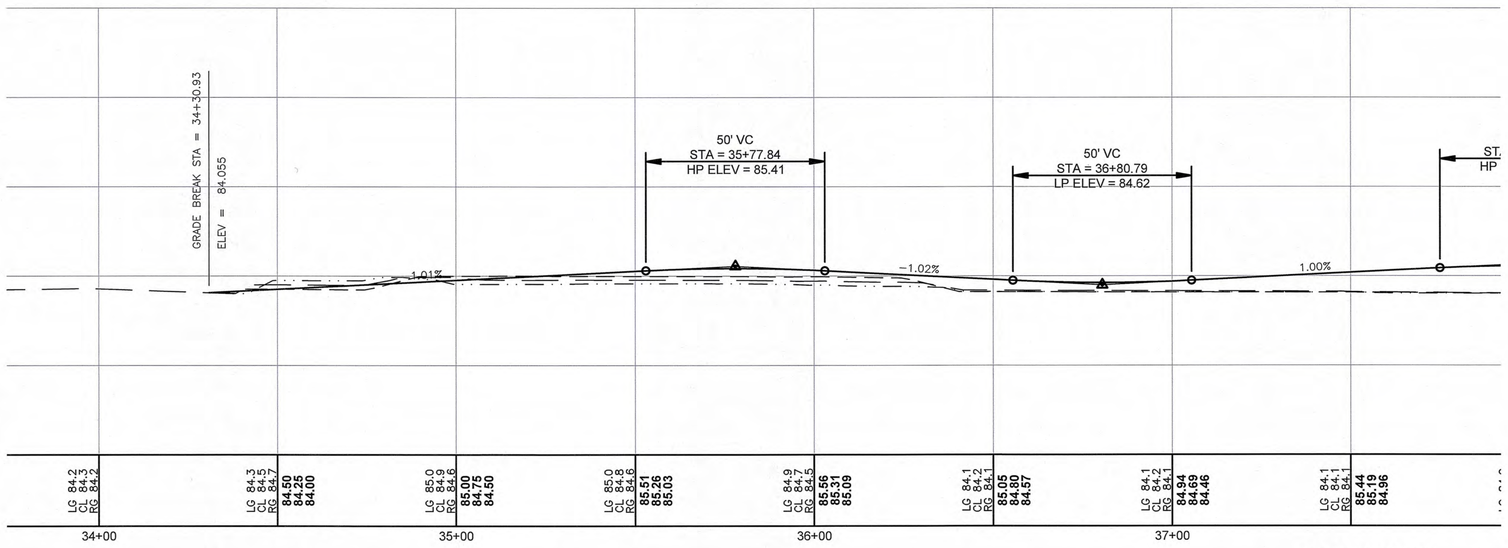

PROFILE VIEW

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HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

NOTICE OF INTENT
APRIL 2024

TOWN OF WAKEFIELD
Public Works • Engineering Division • 1 Lafayette Street Wakefield, MA 01880

02/19/24

REVISIONS

DESIGN: STEVEN WAY
DRAFTED: TWW
CHECKED: WJR
SCALE: AS SHOWN

GRADING & DRAINAGE PLAN

QUANNAPOWITT PARKWAY
ROADWAY IMRPOVEMENTS
APRIL 2024

10182

SHEET
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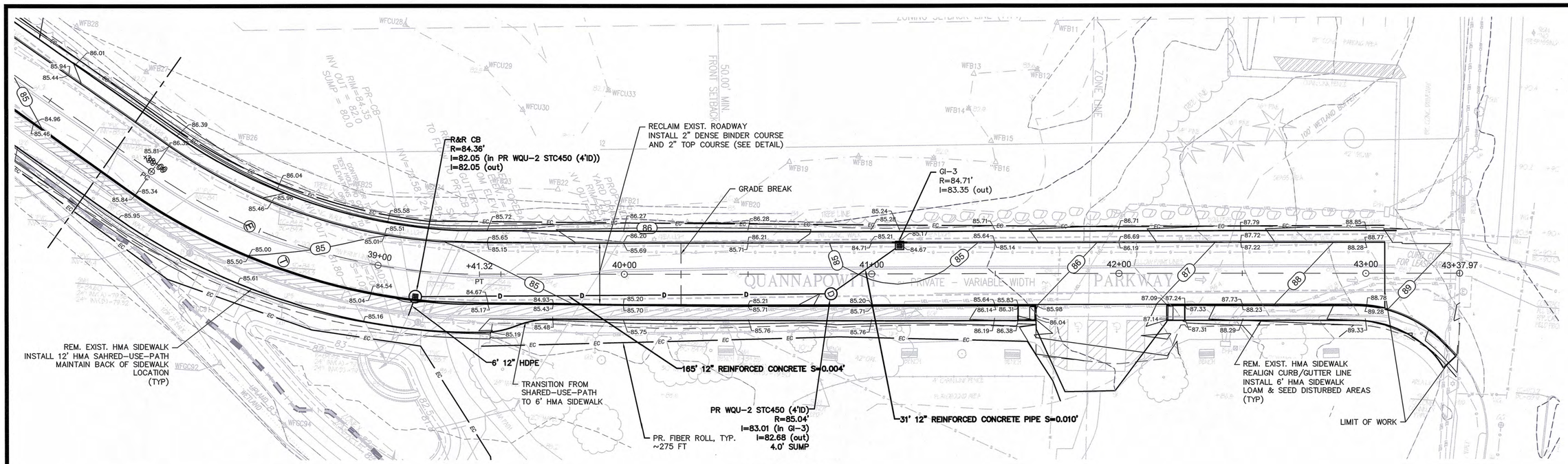
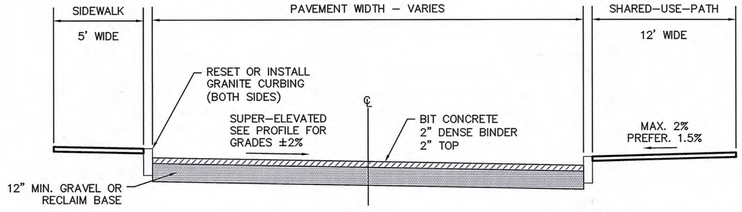


PLAN VIEW

SCALE: 1" = 20'



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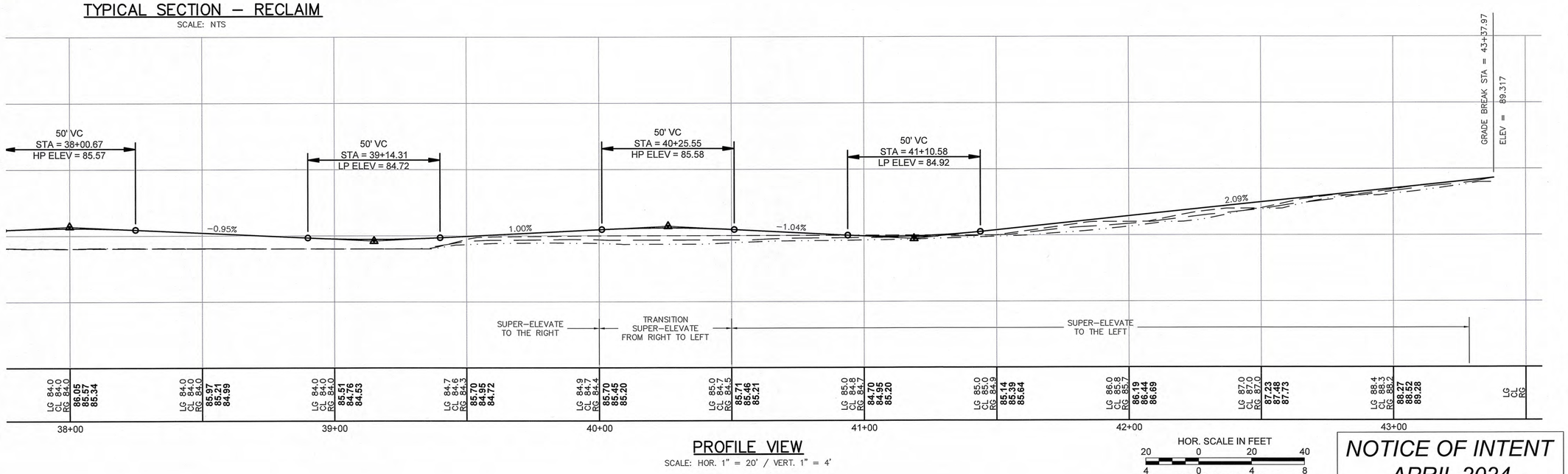

PROFILE VIEW

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HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

NOTICE OF INTENT
APRIL 2024

REVISIONS

TOWN OF WAKEFIELD
Public Works • Engineering Division • 1 Lafayette Street Wakefield, MA 01880

DESIGN: TWW
DRAFTED: TWW
CHECKED: NUR
SCALE: AS SHOWN

GRADING & DRAINAGE PLAN
QUANNAPOWITT PARKWAY
ROADWAY IMRPOVEMENTS
APRIL 2024

10182

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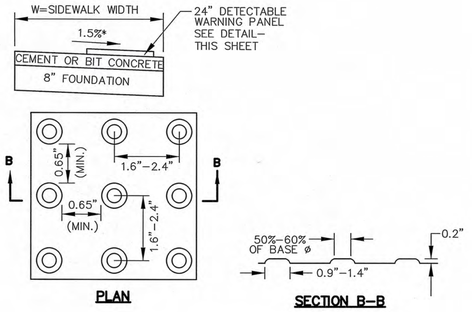


PLAN

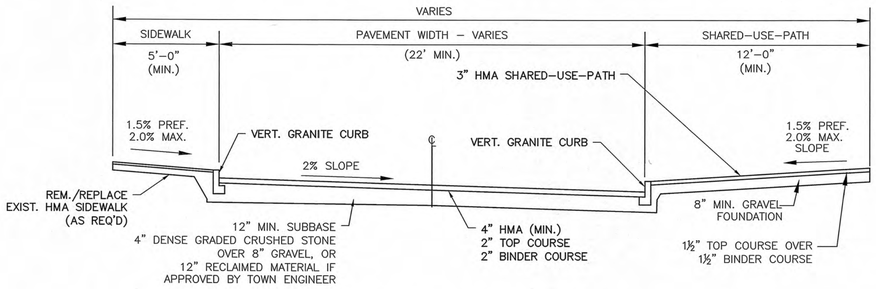
SECTION B–B

NOTE:
WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES.

DETECTABLE WARNING PANEL TO BE WEATHERED CAST IRON AS MANUFACTURED BY NEENAH FOUNDRY COMPANY OR APPROVED EQUAL.

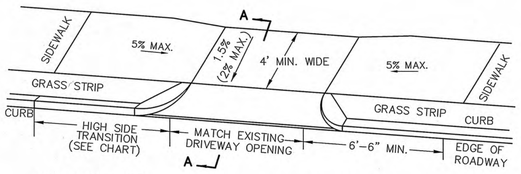
DETECTABLE WARNING PANEL

NOT TO SCALE



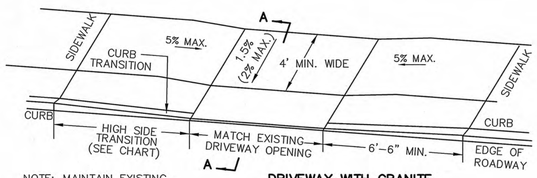
TYPICAL ROADWAY CROSS SECTION

NOT TO SCALE



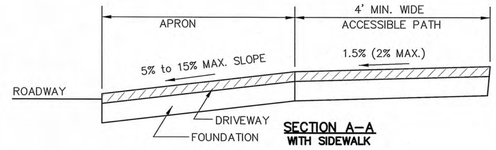
NOTE: GRAN. CURB CORNERS SHALL BE TYPE A UNLESS OTHERWISE NOTED

DRIVEWAY WITH GRANITE CURB CORNER

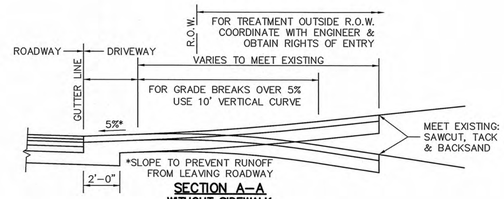


NOTE: MAINTAIN EXISTING DRAINAGE PATTERN ACROSS DRIVEWAY APRON

DRIVEWAY WITH GRANITE TRANSITION CURB



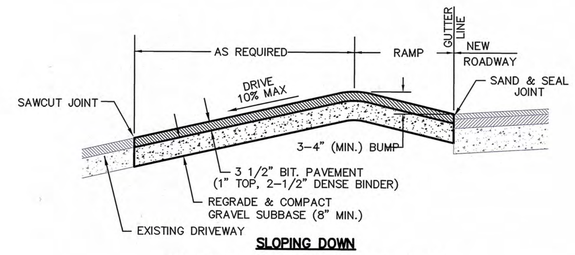
SECTION A–A
WITH SIDEWALK



SECTION A–A
WITHOUT SIDEWALK

TYPICAL DRIVEWAY

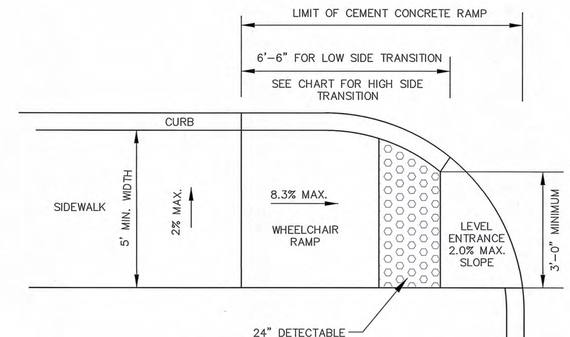
NOT TO SCALE



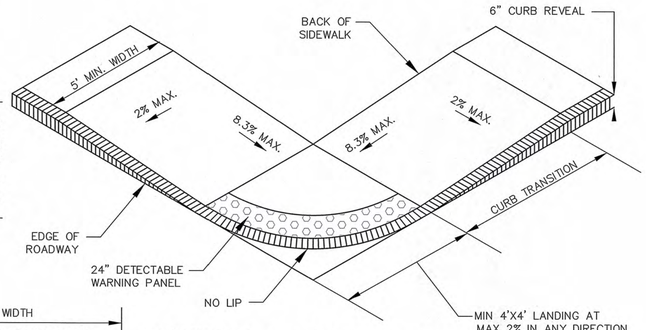
SLOPING DOWN

DRIVEWAY BERM TREATMENT

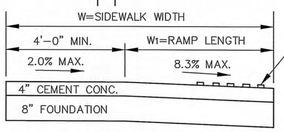
NOT TO SCALE



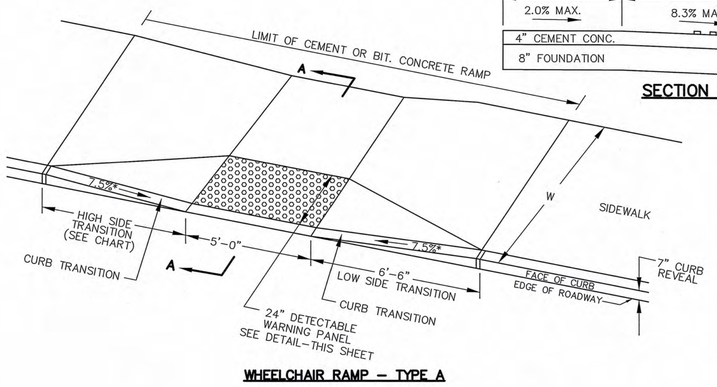
WHEELCHAIR RAMP – TYPE B



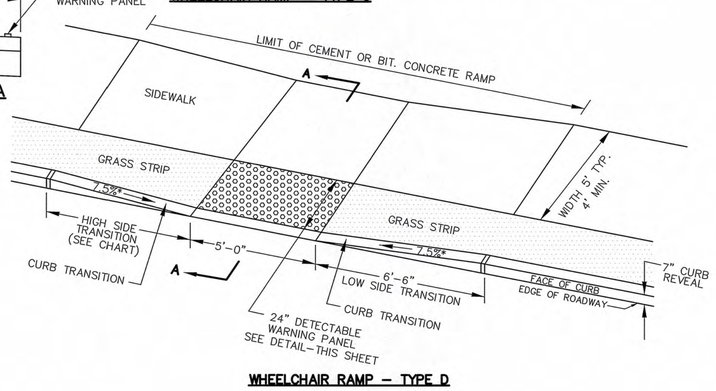
WHEELCHAIR RAMP – TYPE C



SECTION A–A



WHEELCHAIR RAMP – TYPE A



WHEELCHAIR RAMP – TYPE D

CONCRETE WHEELCHAIR RAMPS

NOT TO SCALE

TOWN OF WAKEFIELD
Public Works • Engineering Division • 1 Lafayette Street Wakefield, MA 01880

WILLIAM J. RENAL, JR. CIVIL No. 49165 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS
4/4/24

REVISIONS

DESIGNED TWW
DRAFTED TWW
CHECKED WJR
SCALE AS SHOWN

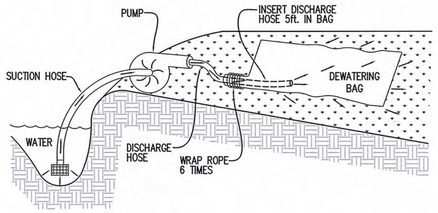
DETAILS 1
QUANNAPOWITT PARKWAY
ROADWAY IMRPOVEMENTS
APRIL 2024

10182

SHEET
7 OF 10

DET-1

NOTICE OF INTENT
APRIL 2024



INSTALLATION AND USE:

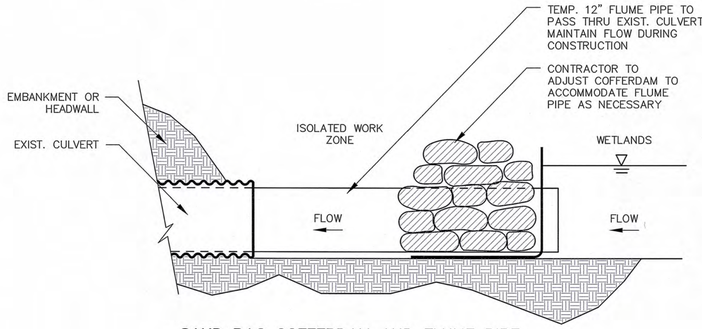
1. PLACE DEWATERING BAG ON THE GROUND OR OVER A RELATIVELY LEVEL, STABILIZED AREA WITH OR WITHOUT TARPAULIN BENEATH.
2. INSERT DISCHARGE PIPE A MINIMUM OF 5FT. INSIDE DEWATERING BAG AND SECURE WITH A ROPE (INCLUDED) WRAPPED 6 TIMES AROUND THE SNOUT OVER A 6 INCH WIDTH OF THE BAG.
3. REPLACE DEWATERING BAG WHEN HALF FULL OF SEDIMENT OR WHEN THE SEDIMENT HAS REDUCED THE FLOW RATE OF THE PUMP DISCHARGE TO AN IMPRACTICAL AMOUNT.
4. DEWATERING BAG SHALL BE SEDCATCH DEWATERING BAGS, OR APPROVED EQUAL.

MAINTENANCE AND DISPOSAL:

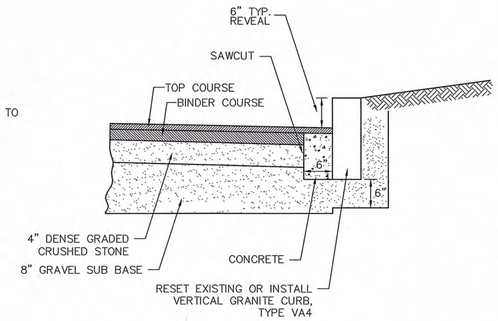
REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT AWAY FROM WATERWAYS OR ENVIRONMENTALLY SENSITIVE AREAS. SLIT OPEN DEWATERING BAG AND REMOVE ACCUMULATED SEDIMENT. DISPOSE OF BAG AT AN APPROPRIATE RECYCLING OR SOLID WASTE FACILITY OR; AS DIRECTED BY ENGINEER.

NOTE: MAY BE USED IN PLACE OF DEWATERING BASIN

DEWATERING BAG
N.T.S.



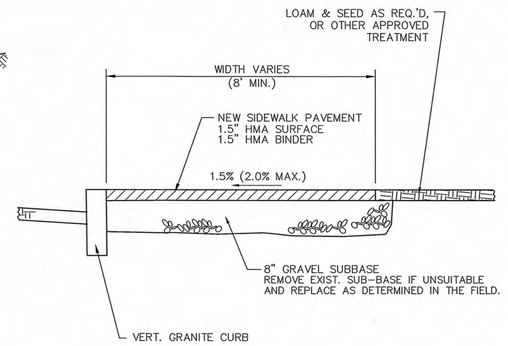
SAND BAG COFFERDAM AND FLUME PIPE
N.T.S.



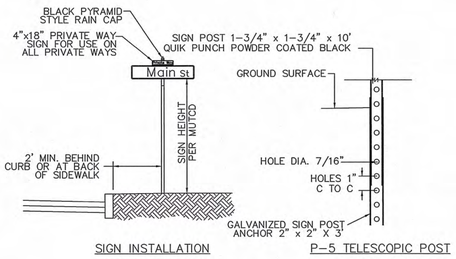
NOTE:

1. RECLAIMED ASPHALT PAVEMENT MATERIAL MAY BE SUBSTITUTED FOR DENSE GRADED CRUSHED STONE AND GRAVEL SUB-BASE IF APPROVED BY TOWN ENGINEER.

VERTICAL GRANITE CURB
NOT TO SCALE



HOT MIX ASPHALT SHARED-USE-PATH
NOT TO SCALE



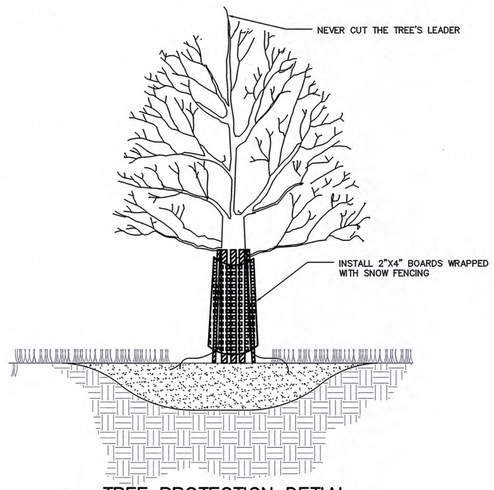
SIGN INSTALLATION — P-5 TELESCOPIC POST

SIGN INSTALLATION
NOT TO SCALE

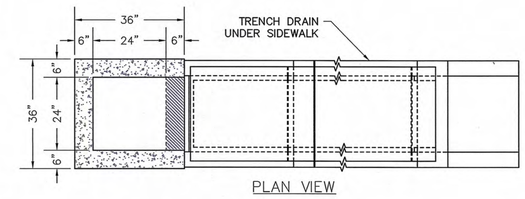
ABBREVIATIONS:

STREET =	ST
AVENUE =	AVE
PLACE =	PL
WAY =	WAY
BOULEVARD =	BLVD
PARKWAY =	PKWY
LANE =	LN
COURT =	CT
DRIVE =	DR
ROAD =	RD
CIRCLE =	CIR
RIDGE =	RDG

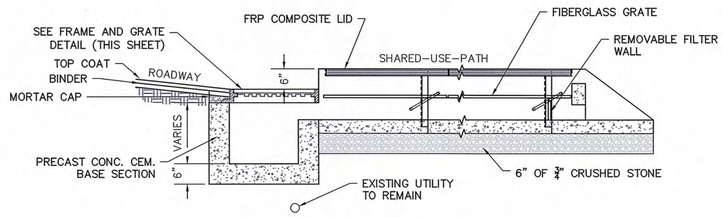
OTHER ABBREVIATIONS USE MUTCD TABLE 1A-1



TREE PROTECTION DETIAL
NOT TO SCALE



PLAN VIEW

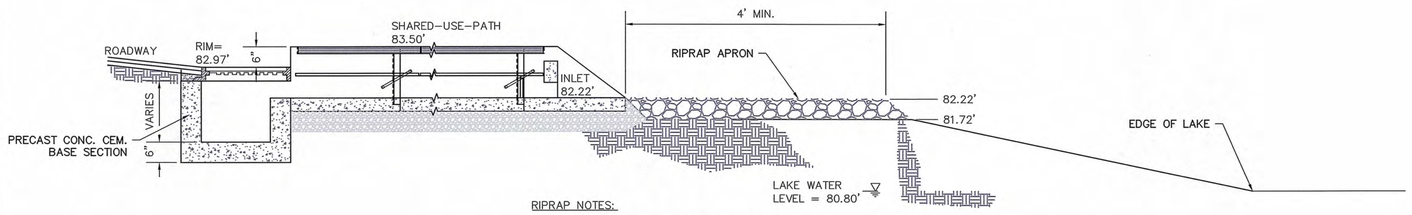


SECTION VIEW

NOTES:

1. PRECAST CONCRETE TRENCH DRAIN TO BE RAIN GUARDIAN FOXHOLE BY FERGUSON WATERWORKS OR APPROVED EQUAL.

GUTTER INLET/TRENCH DRAIN DETAIL
NOT TO SCALE



RIPRAP NOTES:

1. RIPRAP TO BE FHWA CLASS 1 (5"+)

TRENCH DRAIN AND OUTLET RIPRAP DETAIL
NOT TO SCALE

NOTICE OF INTENT
APRIL 2024

TOWN OF WAKEFIELD
Public Works • Engineering Division • 1 Lafayette Street Wakefield, MA 01880

REVISIONS

DESIGNED: TWW
DRAFTED: TWW
CHECKED: WJR
SCALE: AS SHOWN

DETAILS 2
QUANNAPOWITT PARKWAY
ROADWAY IMRPOVEMENTS
APRIL 2024

10182

SHEET
8 OF 10

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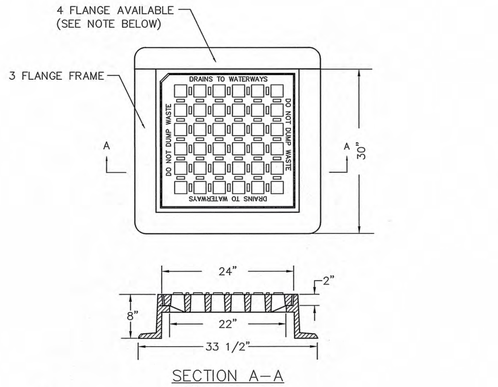


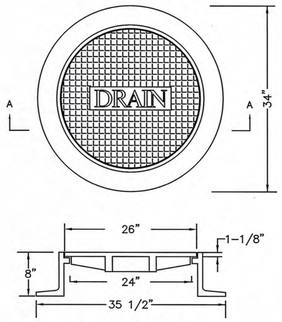
SECTION A–A

NOTE:
FRAME EJ CATALOG NO. 0MA552000029
GRATE EJ CATALOG NO. 0MA552000075
OR APPROVED EQUAL.

3 FLANGE FRAMES TO BE USED WHERE INLET IS ADJACENT TO CURB STONES, 4 FLANGE FRAME TO BE USED ELSEWHERE.

"DO NOT DUMP WASTE, DRAINS TO WATERWAYS" SHALL BE FORGED INTO THE GRATE.

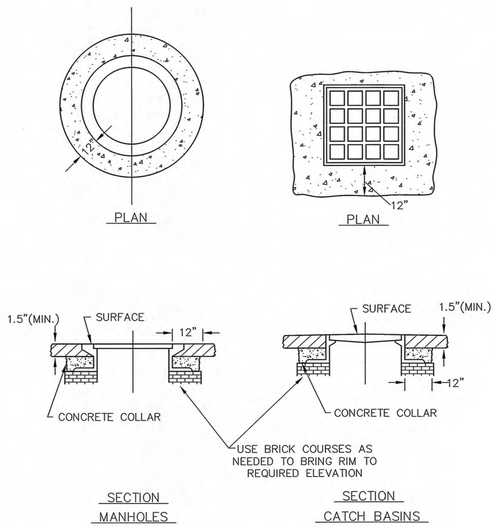
CATCH BASIN FRAME & GRATE
NOT TO SCALE



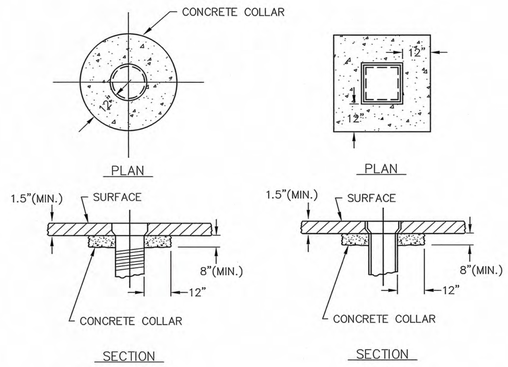
NOTE:
FRAME EJ CATALOG NO. 0MA211000038
COVER EJ CATALOG NO. 0MA211000041
OR APPROVED EQUAL.

SECTION A–A

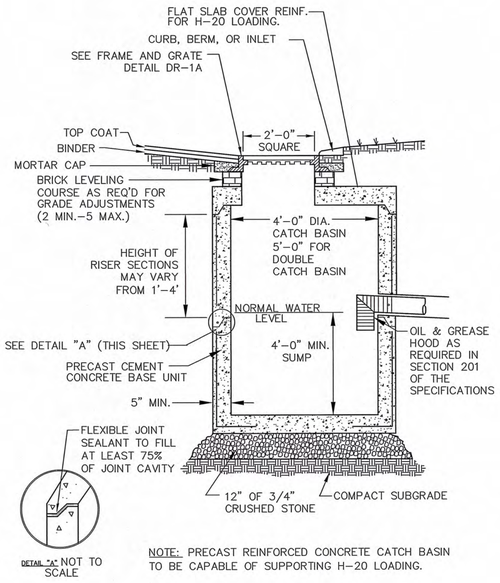
DRAIN MANHOLE FRAME & COVER
NOT TO SCALE



RAISING CASTINGS – DRAINAGE STRUCTURES
NOT TO SCALE

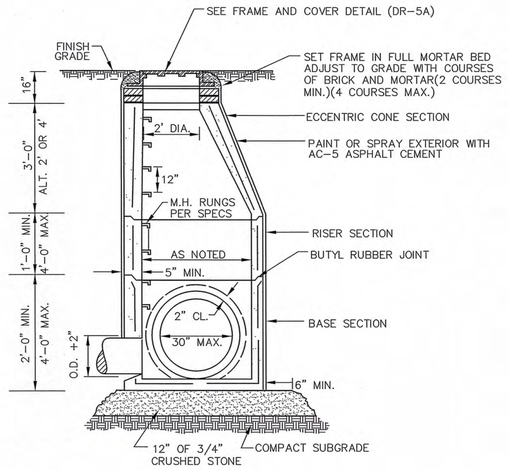


RAISING CASTINGS – WATER SERVICE BOXES
NOT TO SCALE



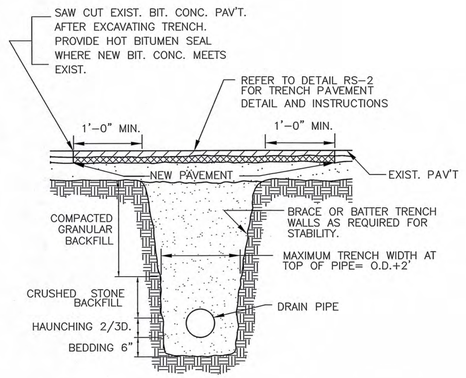
NOTE: PRECAST REINFORCED CONCRETE CATCH BASIN TO BE CAPABLE OF SUPPORTING H–20 LOADING.

STANDARD PRECAST CATCH BASIN
NOT TO SCALE



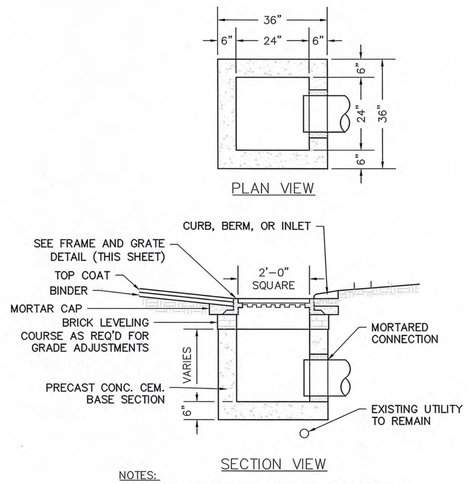
NOTE:
PRECAST REINFORCED CONCRETE MANHOLE TO BE CAPABLE OF SUPPORTING H–20 LOADING

STANDARD PRECAST DRAIN MANHOLE
NOT TO SCALE



NOTE:
BEDDING AND HAUNCHING SHALL BE 3/4" STONE

DRAIN PIPE TRENCH DETAIL
NOT TO SCALE



SECTION VIEW

NOTES:
1. PRECAST REINFORCED CONCRETE GUTTER INLET TO BE CAPABLE OF SUPPORTING H–20 LOADING.
2. GUTTER INLET MUST OUTLET TO STRUCTURE WITH MIN. 4' SUMP

GUTTER INLET DETAIL
NOT TO SCALE

NOTICE OF INTENT
APRIL 2024

TOWN OF WAKEFIELD
Public Works • Engineering Division • 1 Lafayette Street Wakefield, MA 01880

REVISIONS

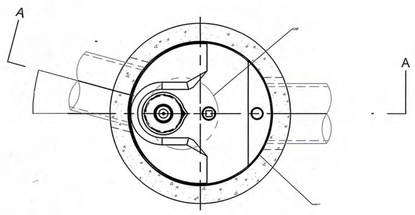
DESIGNED: TWW
DRAWN: TWW
CHECKED: WJR
SCALE: AS SHOWN

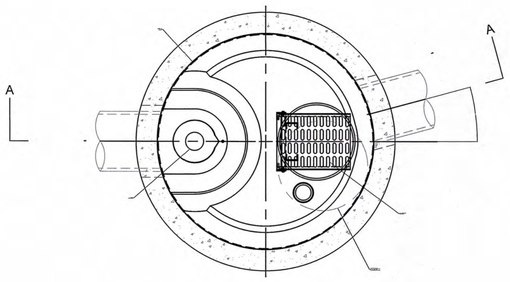
DETAILS 3
QUANNAPOWITT PARKWAY
ROADWAY IMPROVEMENTS
APRIL 2024

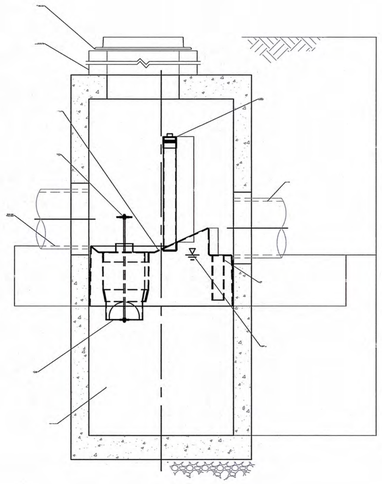
10182

SHEET
9 OF 10

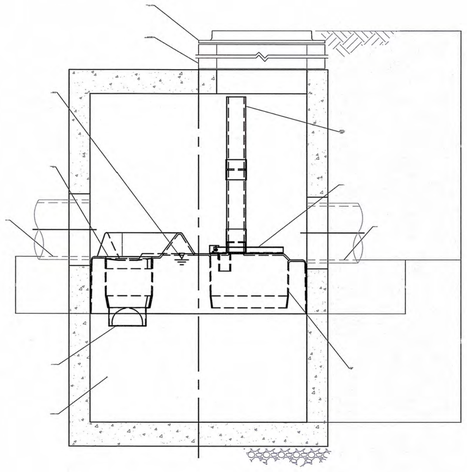
DET-3







STORMCEPTOR STC 450i DETAIL
NOT TO SCALE



STORMCEPTOR STC 900 DETAIL
NOT TO SCALE

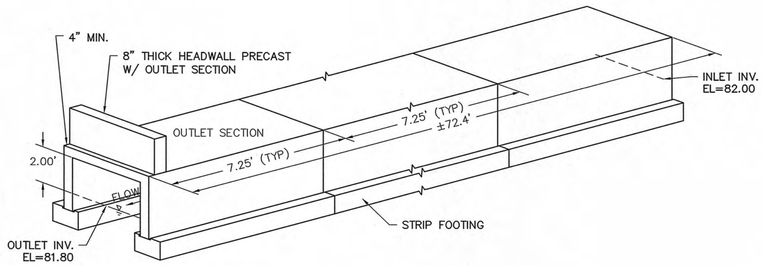
GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
3. STORMCEPTOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' – 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
4. STORMCEPTOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
5. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES
A. ANY SUB–BASE, BACKFILL DEPTH, AND/OR ANTI–FLOTATION PROVISIONS ARE SITE–SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMCEPTOR MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

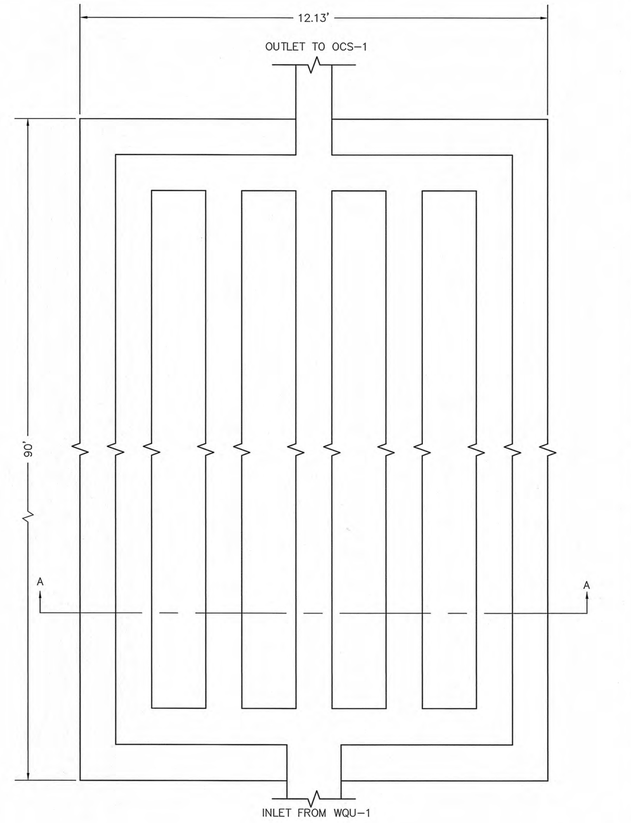
NOTICE OF INTENT
APRIL 2024

CONSTRUCTION NOTES:
1. CONCRETE: 5000 PSI MIN STRENGTH @ 28 DAYS.
2. STEEL REINFORCING – ASTM A 615–75 GRADE 60.
3. DESIGN PER ASTM C1504 SPECIFICATION FOR 3–SIDED CULVERT.
4. COVER TO STEEL SHALL BE 1" MIN.
5. MUST MEET ASTM C858 AND ACI 318 W/ AASHTO HS–20 LOADING.
6. CONSTRUCTION JOINT–SEALED W/ 1"ø BUTYL RUBBER OR EQUIVALENT.
7. COVER 1 TO 5 FEET.

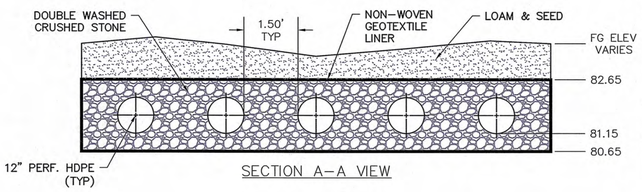
PRECAST CULVERT DETAIL
NOT TO SCALE



ISOMETRIC CULVERT DETAIL
NOT TO SCALE



PLAN VIEW



SECTION A–A VIEW

UNDERGROUND INFILTRATION SYSTEM DETAIL
NOT TO SCALE

TOWN OF WAKEFIELD
Public Works • Engineering Division • 1 Lafayette Street Wakefield, MA 01880

COMMONWEALTH OF MASSACHUSETTS
WILLIAM J. DEHAULT, JR.
CIVIL
No. 40495
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

DESIGNED	TWW
DRAWN	TWW
CHECKED	WJR
SCALE	AS SHOWN

DETAILS 4
QUANNAPOWITT PARKWAY
ROADWAY IMRPOVEMENTS
APRIL 2024

10182

SHEET
10 OF 10

DET-4