

Special Permit Plans

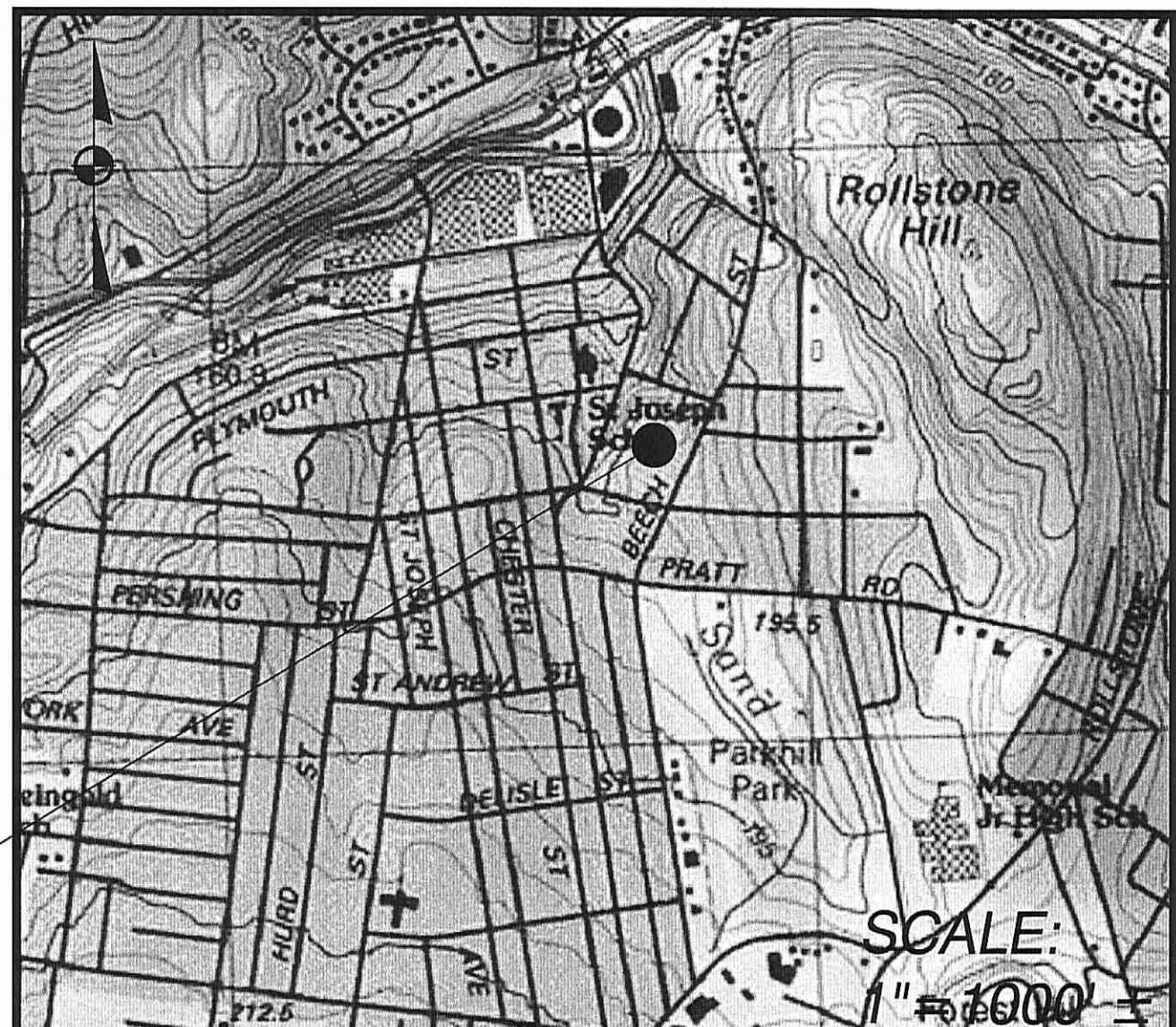
June 22, 2007 (Revised May 11, 2023)

Planned Unit Development

Beech Street

Fitchburg, Massachusetts 01462

PROJECT SITE



Applicant:

Amit Schilgi
B16 LLC
55 Mead Street Leominster, MA 01453
(917) 935-1793

Civil Engineer:

McCarty Engineering, Inc.
42 Tucker Drive
Leominster, MA 01453
(978) 534-1318

Surveyor :

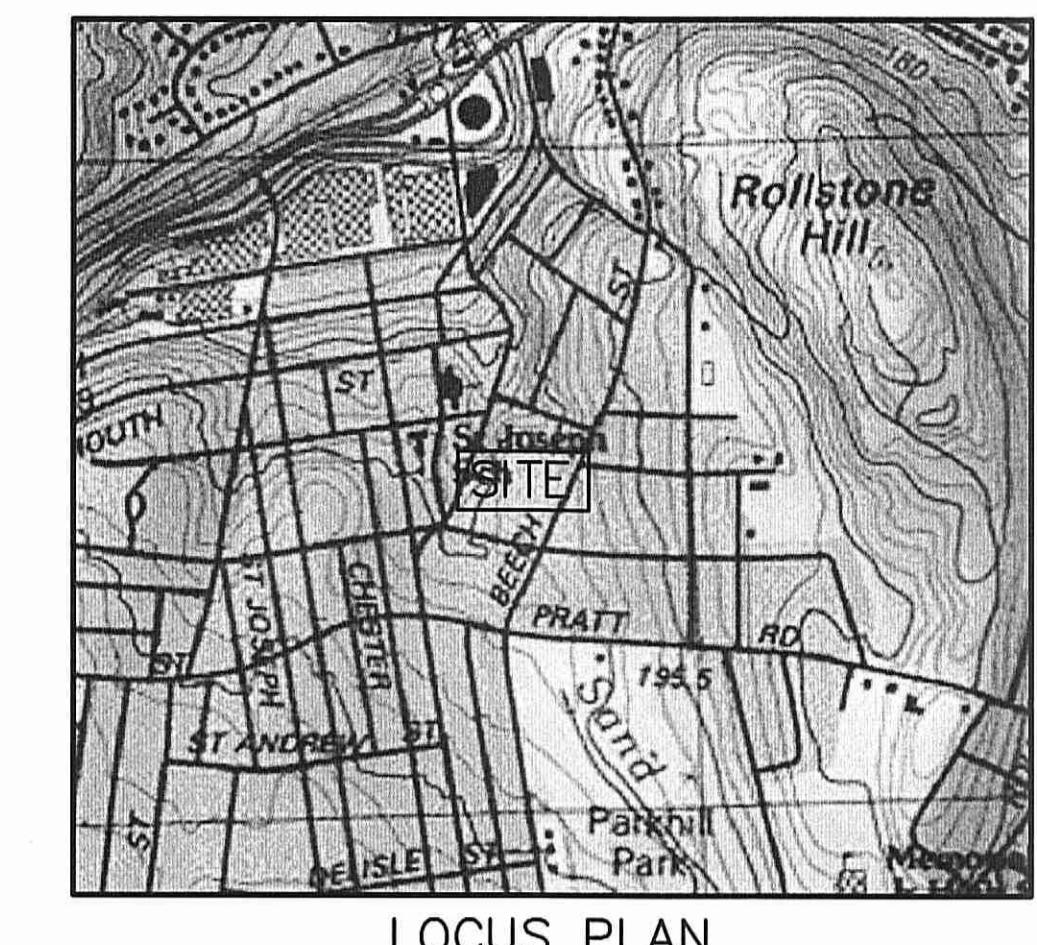
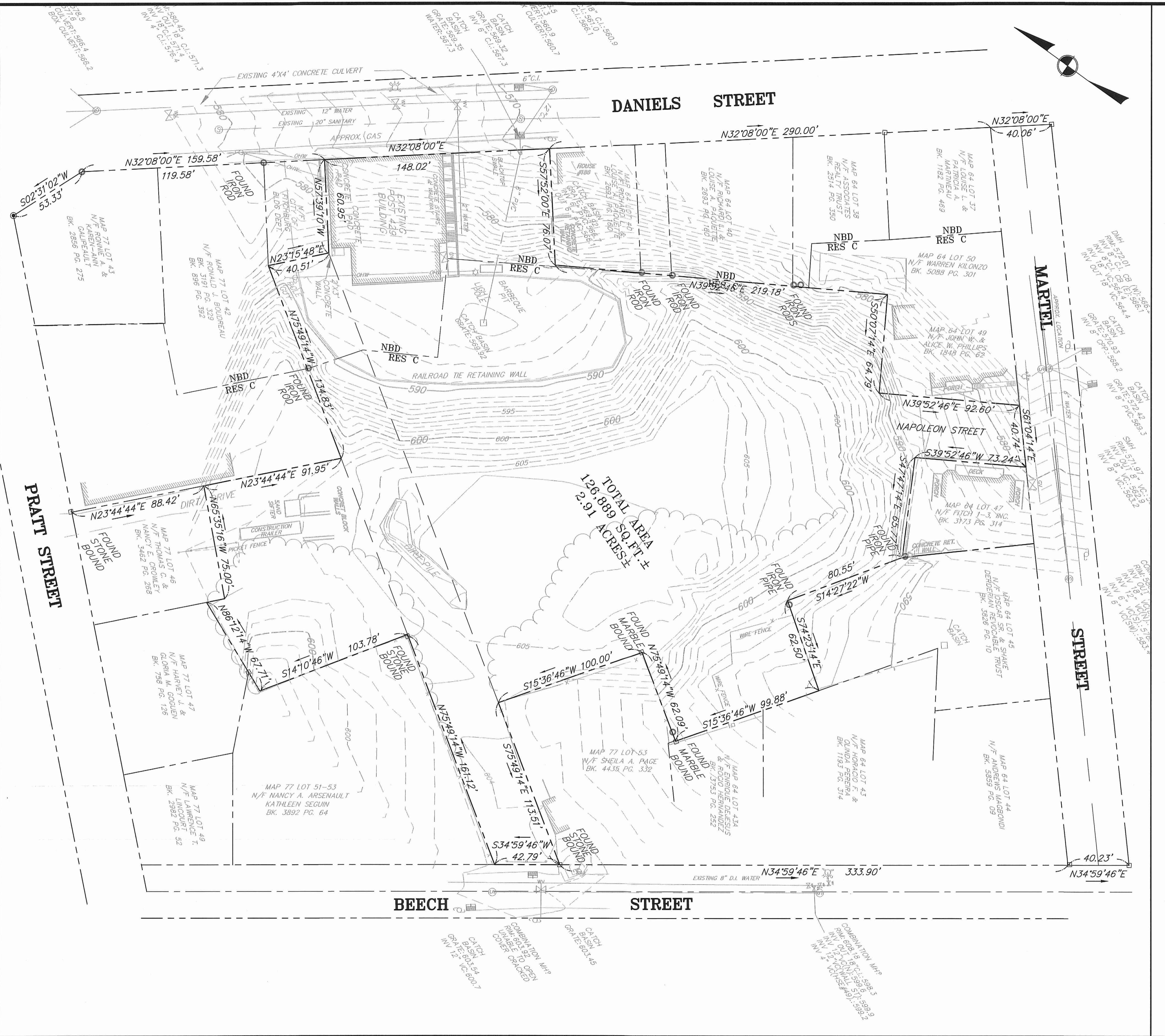
Whitman & Bingham, LLC
510 Mechanic Street
Leominster, MA 01453
(978) 537-5296

Sheet No.	Sheet Title
1	Existing Conditions Plan
2	Layout & Materials Plan
3	Grading & Drainage Plan
4	Utility Plan
5	Erosion Control Plan
6	Construction Details
7	Construction Details

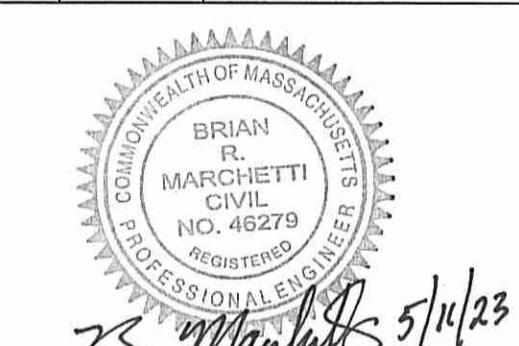
8	Construction Details
9	Stormtech Detail Sheet



Brian Marchetti 5/11/23



8	05/11/2023	No Change
7	3/14/2023	No Change
6	11/16/2021	No Change
5	9/28/2021	Response to Comments
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2	11/19/07	Issued for Construction
1	8/21/07	F.P.B. Comments
No.	Date	Revision



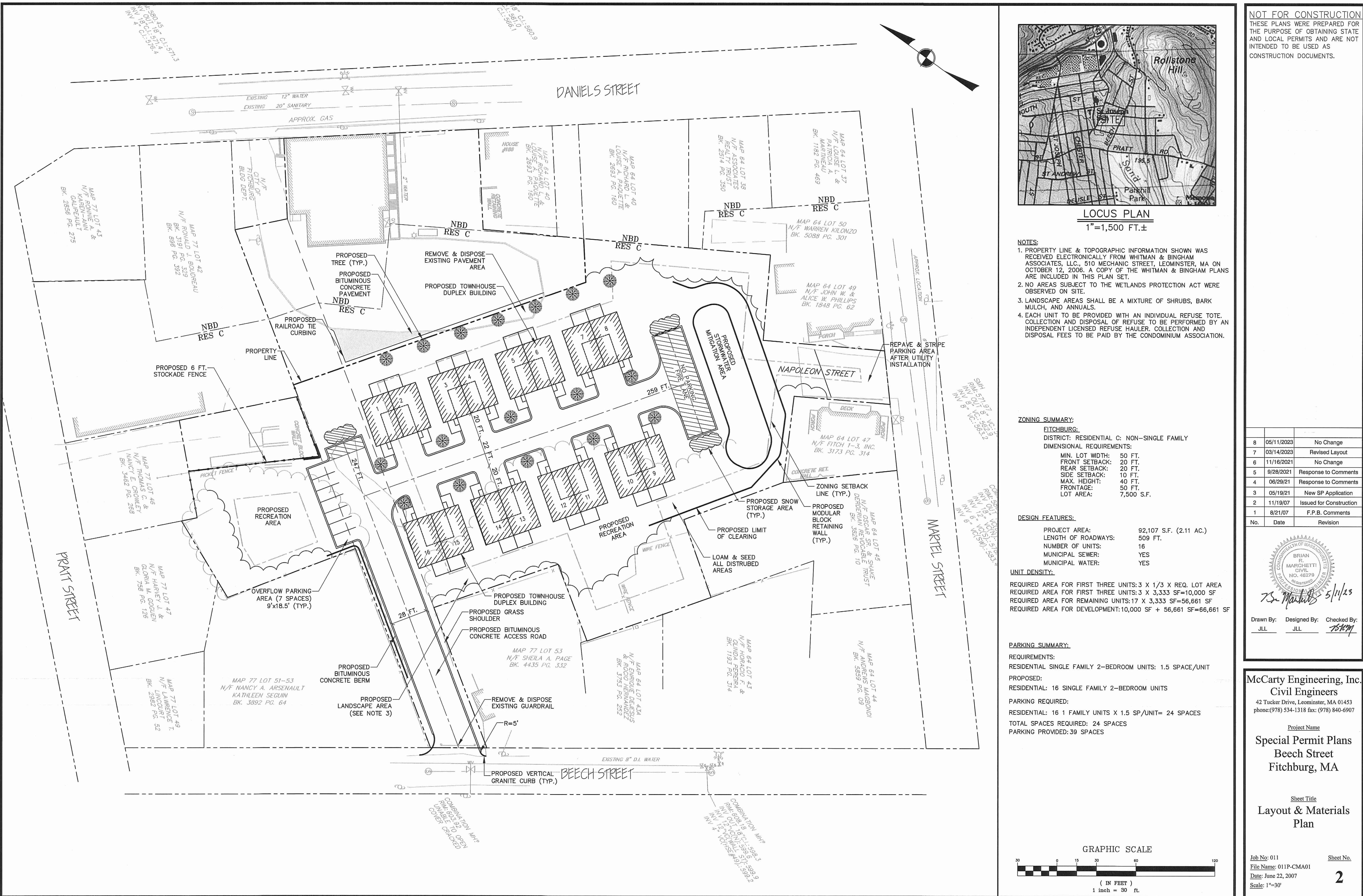
Drawn By: PJM Designed By: PJM Checked By: 739091

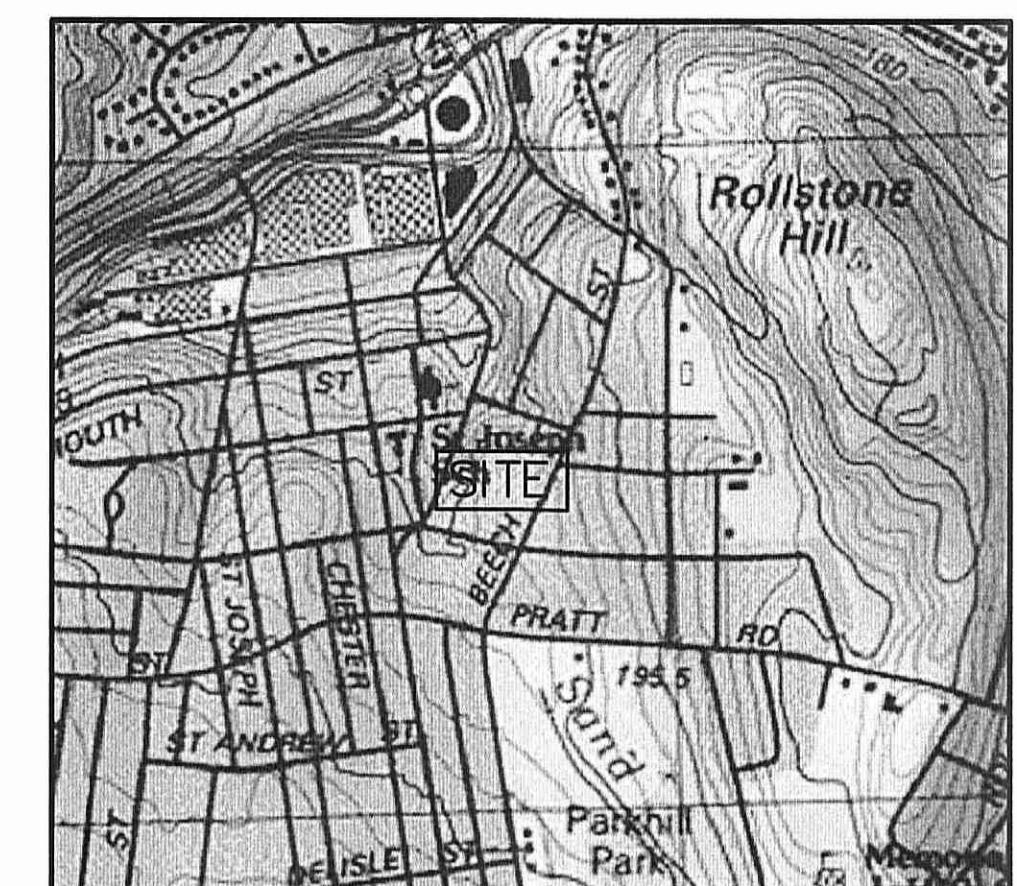
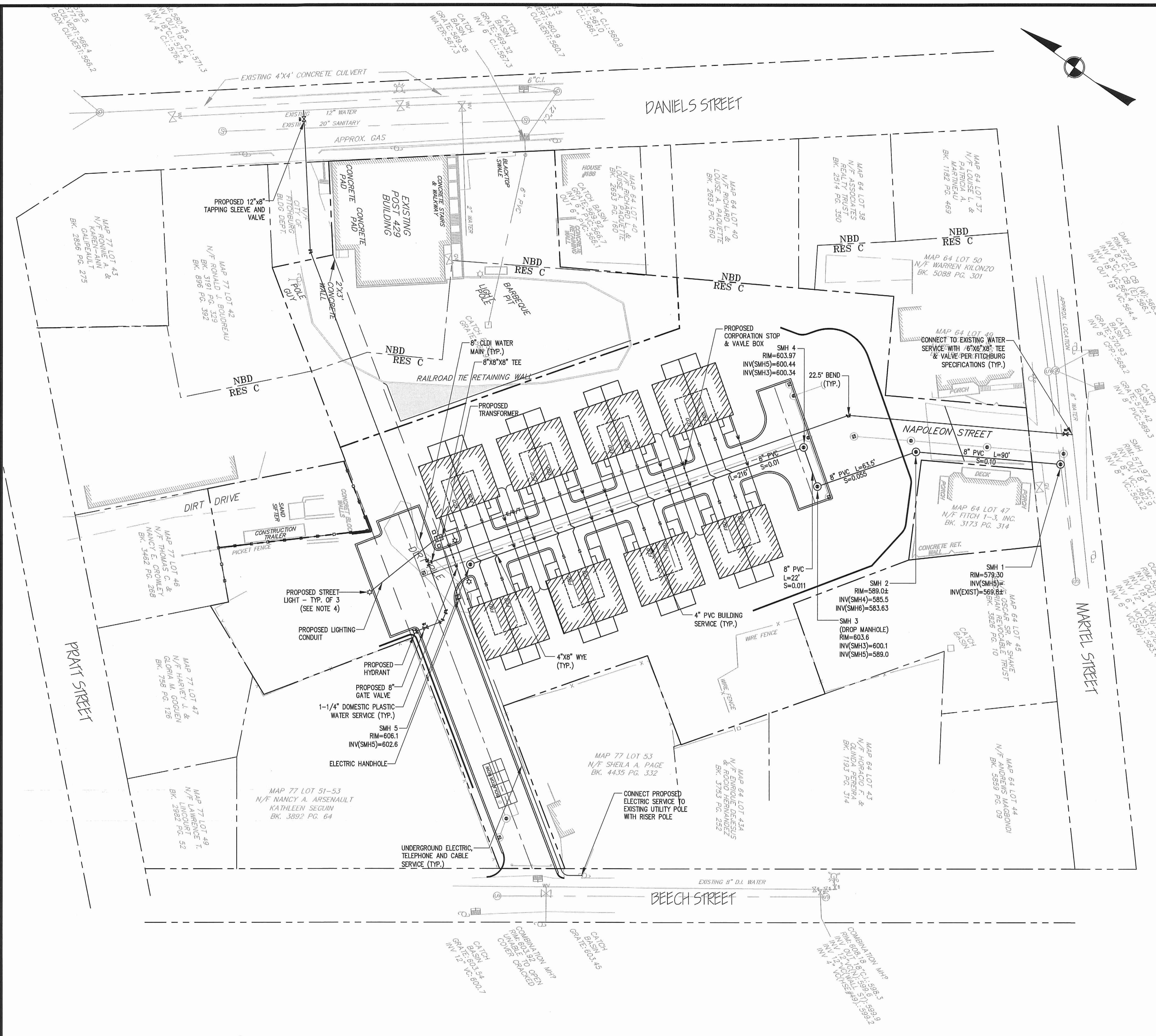
McCarty Engineering, Inc.
Civil Engineers
42 Tucker Drive, Leominster, MA 01453
phone: (978) 534-1318 fax: (978) 840-6907

Project Name
Special Permit Plans
Beech Street
Fitchburg, MA

Sheet Title
Existing Conditions
Plan

Job No: 011
File Name: 011P-CEC01
Date: June 22, 2007
Scale: 1"=30'





NOT FOR CONSTRUCTION
THESE PLANS WERE PREPARED FOR
THE PURPOSE OF OBTAINING STATE
AND LOCAL PERMITS AND ARE NOT
INTENDED TO BE USED AS
CONSTRUCTION DOCUMENTS.

GENERAL NOTES

NOTES:

1. PROPERTY LINE & TOPOGRAPHIC INFORMATION SHOWN WAS RECEIVED ELECTRONICALLY FROM WHITMAN & BINGHAM ASSOCIATES, LLC., 510 MECHANIC STREET, LEOMINSTER, MA ON OCTOBER 12, 2006. A COPY OF THE WHITMAN & BINGHAM PLANS ARE INCLUDED IN THIS PLAN SET.
2. WATER SERVICE PIPE MUST BE CHANGED TO COPPER PRIOR TO ITS PENETRATING OF THE FOUNDATION WALL.
3. STREET LIGHTS TO BE FED BY A SEPARATE TRANSFORMER MOUNTED ELECTRIC METER. ELECTRICITY COSTS TO BE PAID BY THE CONDO ASSOCIATION.

No.	Date	Revision
8	05/11/2023	Response to Comments
7	3/14/2023	Revised Layout
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1	08/21/07	No Rev. this sheet

A circular professional engineer seal. The outer ring contains the text "COMMONWEALTH OF MASSACHUSETTS" at the top and "PROFESSIONAL ENGINEER" at the bottom. The inner circle contains "BRIAN R. MARCHETTI" at the top, "CIVIL" in the middle, "NO. 46279" below it, and "REGISTERED" at the bottom.

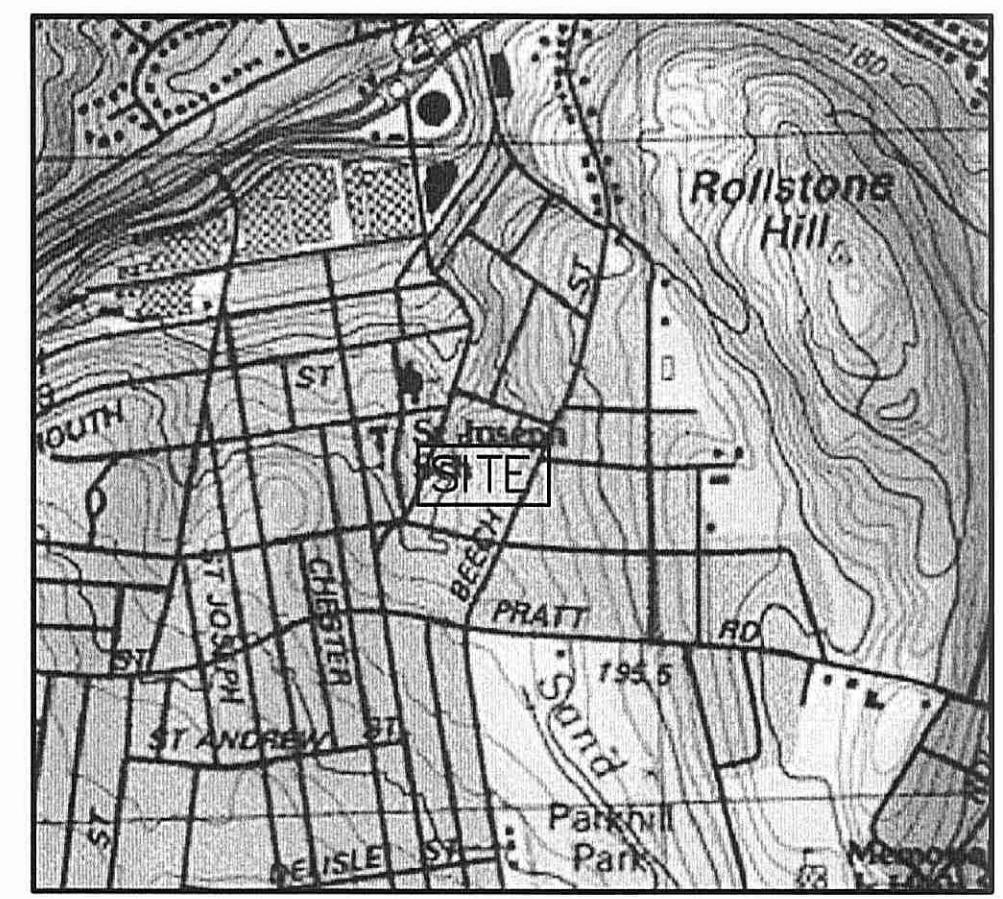
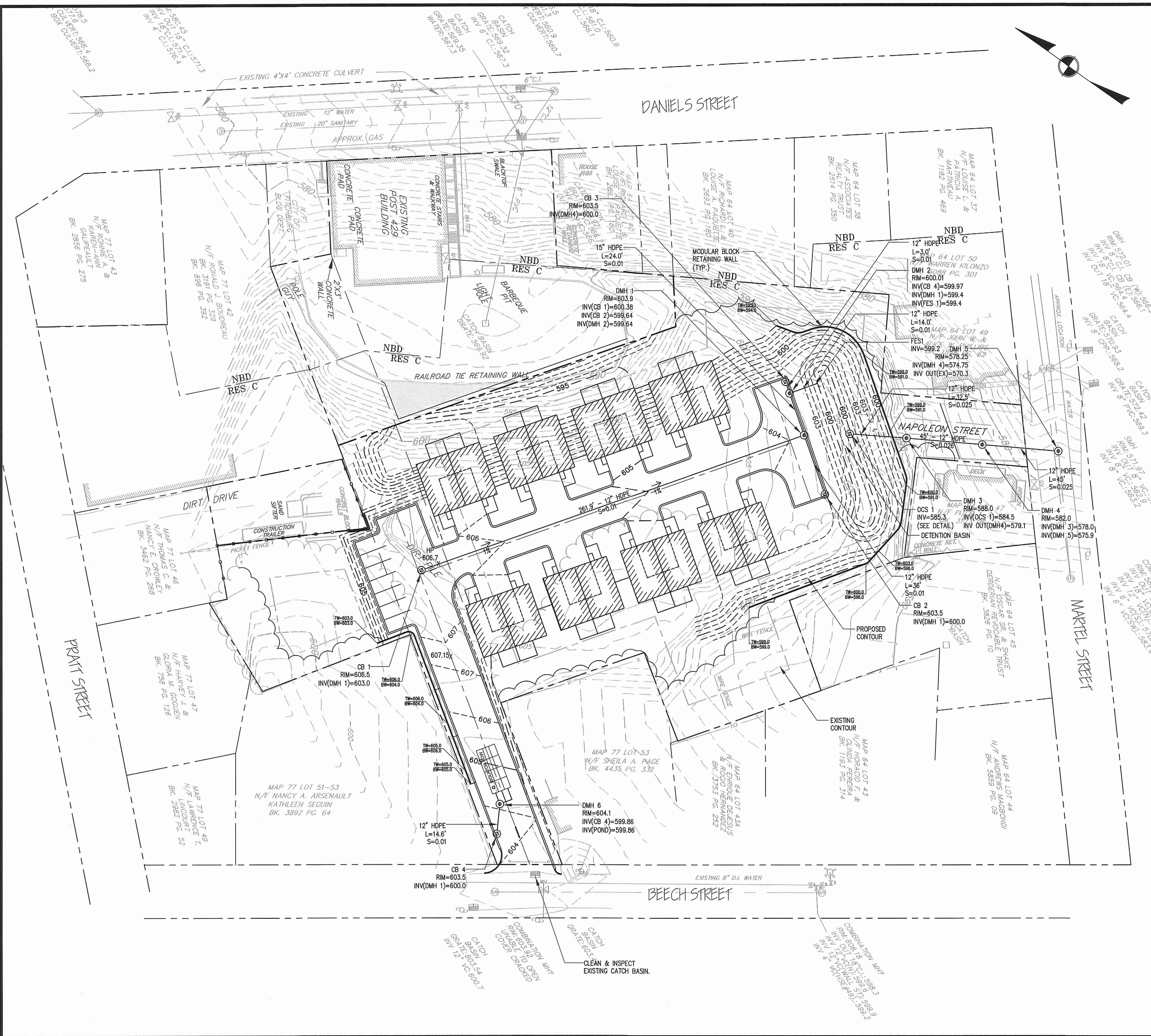
McCarty Engineering, Inc.
Civil Engineers

42 Tucker Drive, Lexington, MA 01435
phone: (978) 534-1318 fax: (978) 840-6907

Project Name

Sheet Title
**Utility
Plan**

Job No: 011 Sheet No.:
File Name: 011P-CPU01
Date: June 22, 2007 **4**
Scale: 1"=30'



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3. STREET LIGHTS TO BE FED BY A SEPARATE TRANSFORMER MOUNTED ELECTRIC METER. ELECTRICITY COSTS TO BE PAID BY THE CONDO ASSOCIATION.

GENERAL NOTES

1. THE CONSTRUCTION OF ALL PROPOSED UTILITIES SHALL CONFORM TO THE CITY OF FITCHBURG STANDARDS AND SPECIFICATIONS, LATEST EDITION, AS WELL AS THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS, LATEST EDITION. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REQUIREMENTS DURING CONSTRUCTION.
2. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES IN THE LOCATION OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION SHALL BE REPORTED TO MCCARTY ENGINEERING, INC. AT 978-534-1318.
3. THE CONTRACTOR SHALL CALL "DIG-SAFE" AT 1-888-DIG-SAFE (344-7233) 72 HOURS PRIOR TO CONSTRUCTION TO INFORM THE UTILITY COMPANIES OF ANY EXCAVATION ADJACENT TO EXISTING UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL WASTE MATERIAL AT AN APPROVED SITE. BURIAL OF WASTE MATERIAL ON-SITE IS NOT PERMITTED.
5. CONTRACTOR SHALL STRIP TOP SOIL AND STOCKPILE ON-SITE FOR REUSE. SOIL STOCKPILES SHALL BE NO HIGHER THAN 8'. STOCKPILES SHALL BE ENCLOSED BY TEMPORARY SILT FENCES TO PREVENT TRAVEL OF SEDIMENT TO ADJACENT DRAINAGE WAYS.
6. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL SURFACE RESTORATION IS COMPLETE AND SHALL BE MAINTAINED IN GOOD CONDITION AT ALL TIMES.
7. CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES FROM ON-SITE CONSTRUCTION ACTIVITIES AND REMOVE ANY SEDIMENT OR DEBRIS DEPOSITED THEREON IMMEDIATELY.
8. DRAINAGE GENERATED AS A RESULT OF TRENCH DEWATERING SHALL BE DISCHARGED TO EXISTING DRAINAGE COURSES WITH PROPER EROSION CONTROL MEASURES. DISCHARGE ONTO PAVEMENT OR PRIVATE PROPERTY SHALL NOT BE ALLOWED.
9. WHEN TAPPING EXISTING PRECAST MANHOLES OR SEWER PIPE, DRILL HOLES AT 4" CENTER TO CENTER WITH A STARDRILL AROUND THE PERIPHERY OF THE OPENING TO CREATE A PLANE OF WEAKNESS BEFORE BREAKING THE SECTION OUT.
10. SANITARY SEWER AND WATER MAIN SHALL BE SEPARATED BY 10 FEET MINIMUM HORIZONTALLY. WHEN SEWER AND WATER CROSS, THE WATER MAIN SHALL BE A MINIMUM OF 18" ABOVE THE SEWER PIPE CROWN.
11. UNLESS OTHERWISE SPECIFIED ON THE PLANS, TOP OF ALL WATER MAINS SHALL BE A MINIMUM 5.0 FEET BELOW FINISH GRADE. IF 5.0 FEET OF COVER CANNOT BE OBTAINED, WATER MAINS SHALL BE INSULATED.
12. VERIFY LOCATION OF BUILDING UTILITY CONNECTIONS WITH

McCarty Engineering, Inc.
Civil Engineers
42 Tucker Drive, Leominster, MA 01453

phone:(978) 534-1318 fax: (978) 840-6907

Project Name

Special Permit Plans Beech Street Fitchburg, MA

Sheet Title

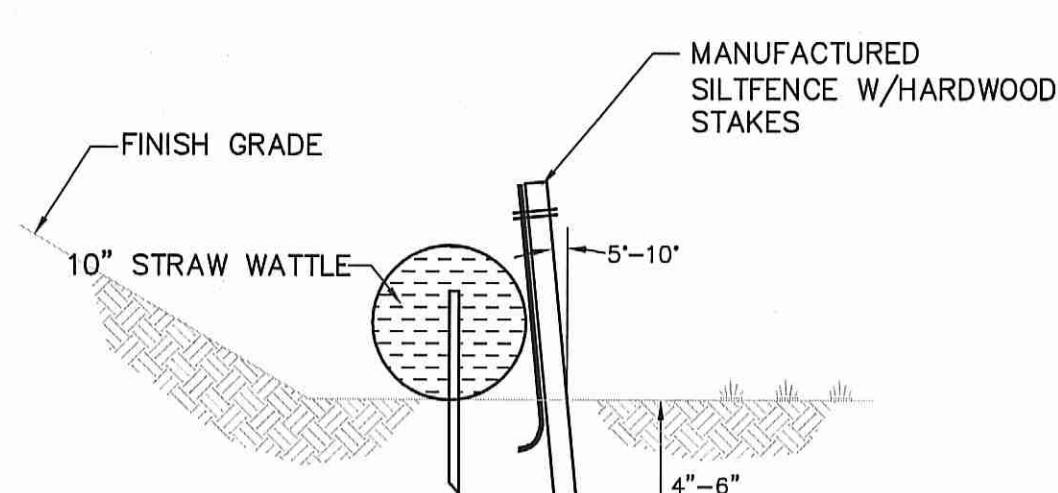
Grading & Drainage Plan

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

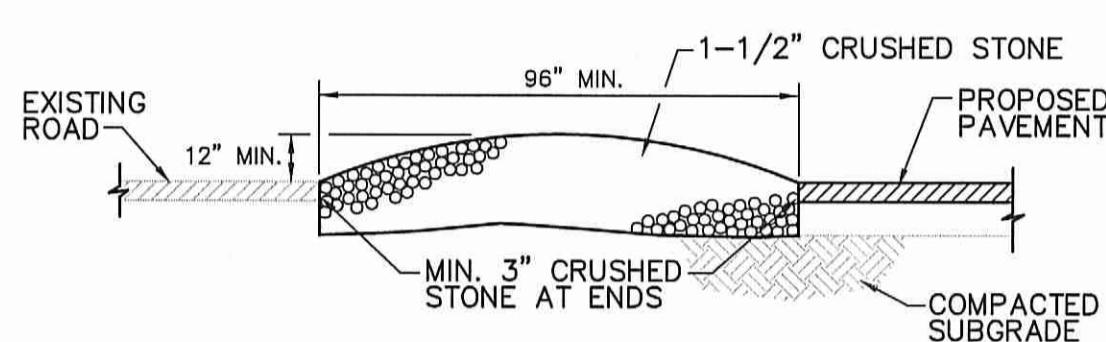
1 inch = 30 ft.



NOTE: 1. STRAW WATTLES SHALL BE INSTALLED ON CONTOUR AND STAKED WITH 18 OR 24 INCH WOOD STAKES AT FOUR FEET ON CENTER
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 5' OF ROLL HEIGHT

STRAW WATTLE / SILT FENCE DETAIL

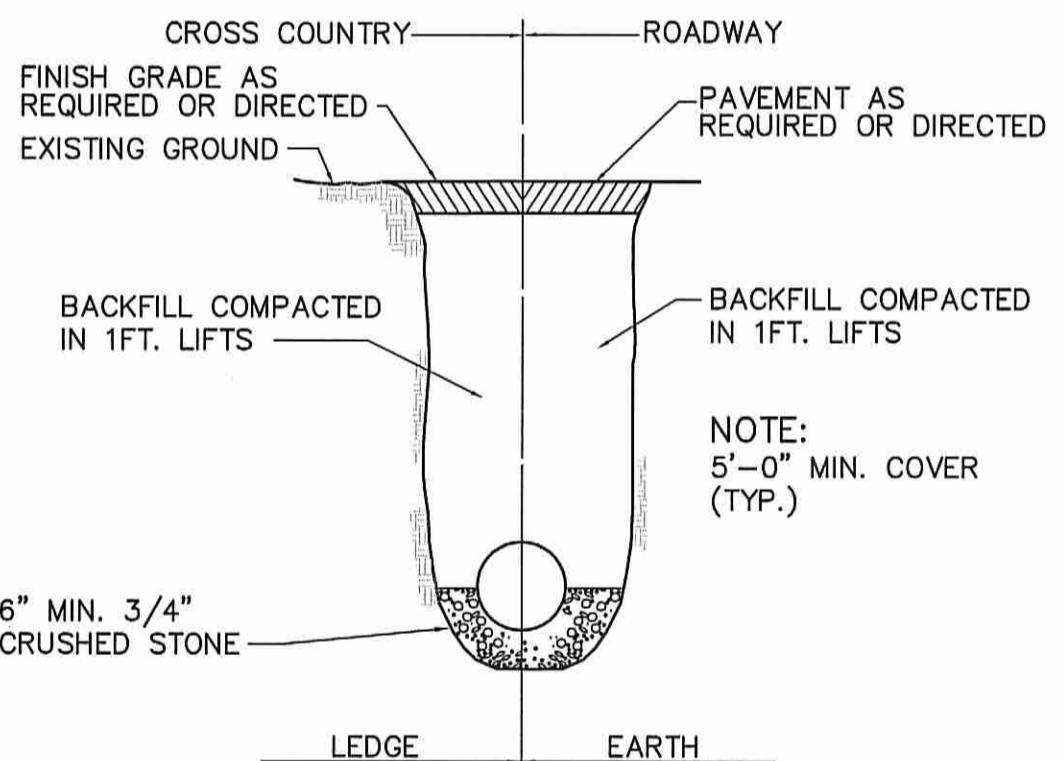
N.T.S.



NOTES:
THE PURPOSE OF THIS TEMPORARY BERM IS TO REMOVE MUD FROM THE TIRES OF VEHICLES LEAVING THE SITE DURING CONSTRUCTION.
PROVIDE LEVEL AREA OF CRUSHED STONE 50 FEET IN FROM EDGE OF EXISTING ROAD.

TEMPORARY ENTRANCE BERM

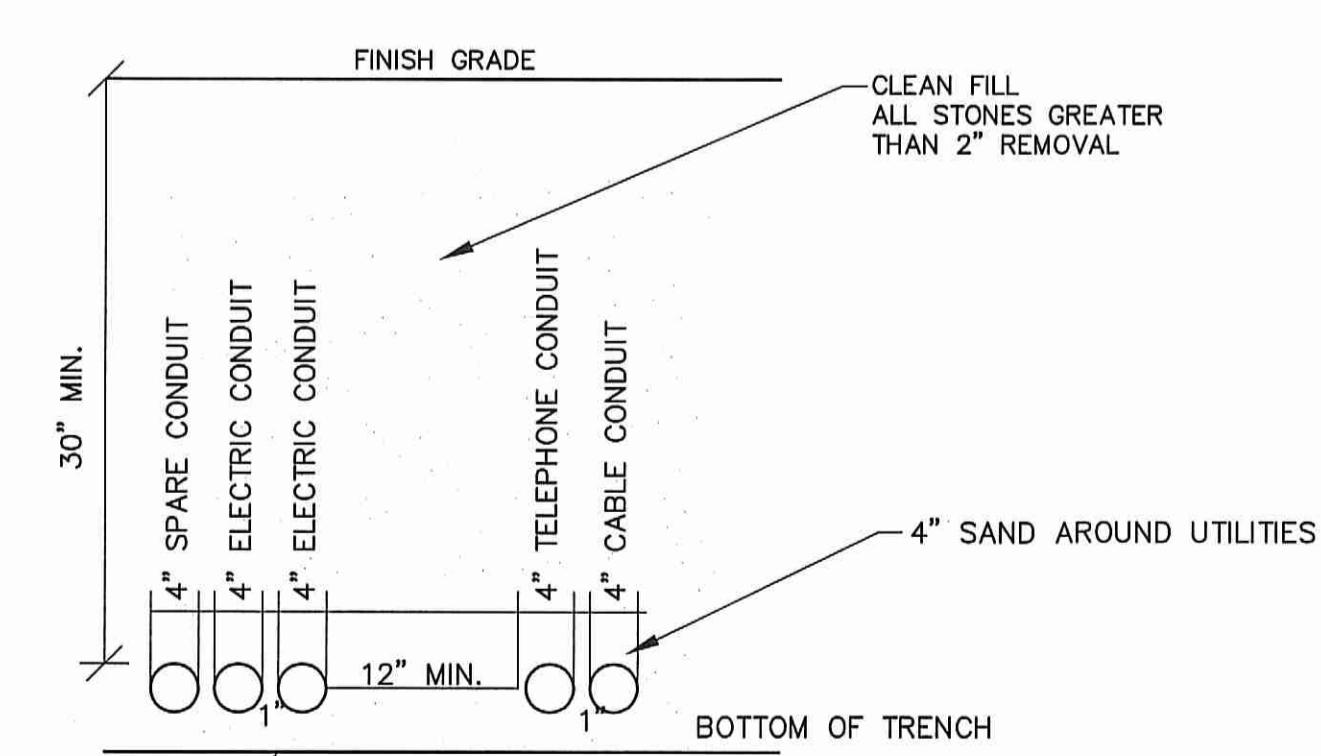
N.T.S.



NOTE:
BACKFILL MATERIAL SHALL CONSIST OF EXCAVATED MATERIAL AND/OR GRAVEL BORROW AS DIRECTED BY THE ENGINEER.

TYPICAL WATER MAIN TRENCH DETAIL

N. T. S.



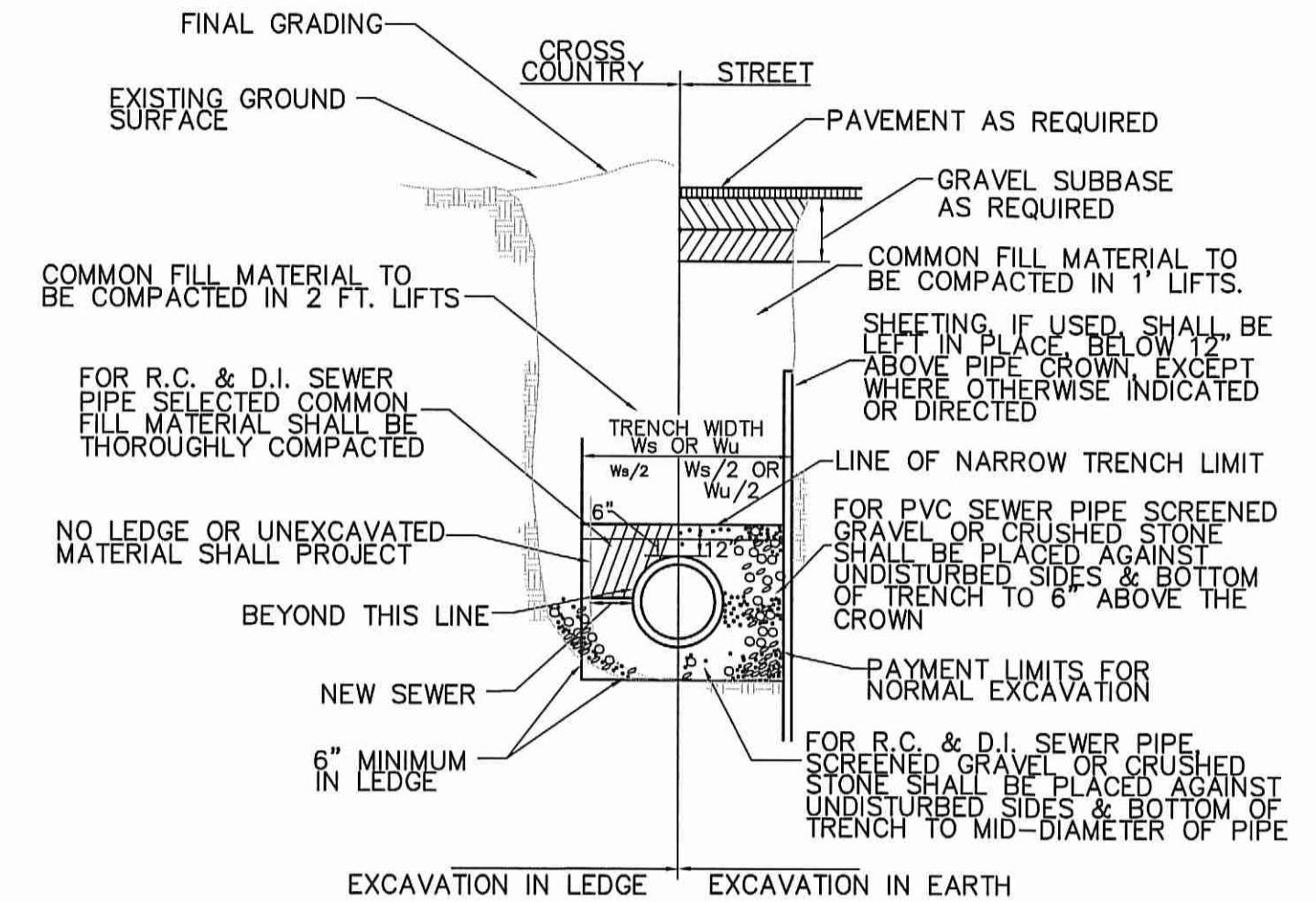
NOTE: VERIFY ELECTRIC REQUIREMENTS WITH UTILIT CONSTRUCTION DRAWINGS.

TYPICAL UTILITY TRENCH DETAIL

N.T.S.

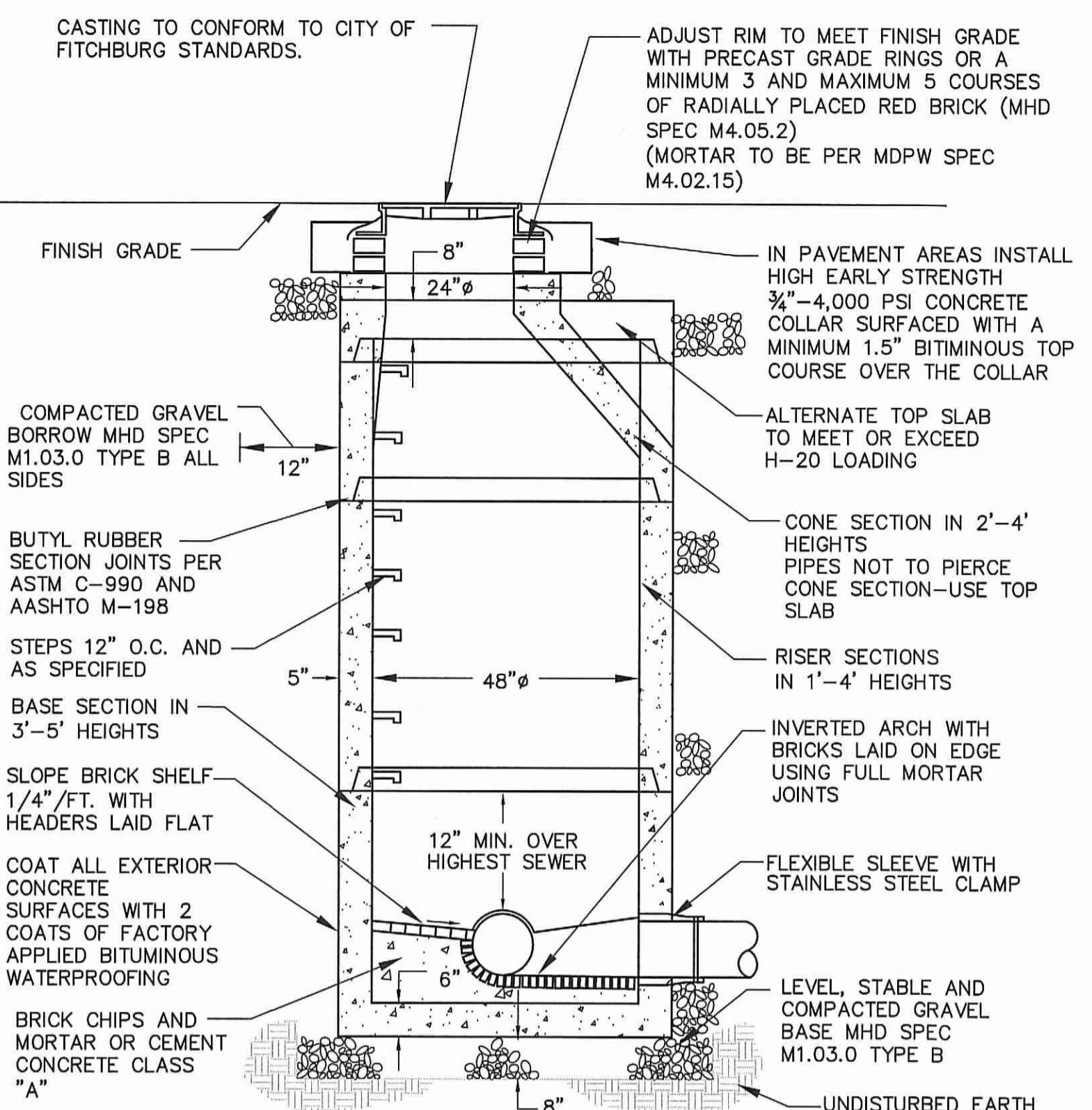
TRENCH WIDTH W ₀ OR W ₀	
D	UNSHHEETED SHEETED
12" AND SMALLER	3'-0" 4'-2"
15"	3'-2" 4'-4"
18"	3'-6" 4'-8"
21"	3'-10" 5'-0"
24"	4'-4" 5'-2"
27"	4'-10" 6'-0"
30"	5'-6" 6'-8"
36"	6'-2" 7'-4"
42"	6'-10" 8'-0"

TRENCH WIDTH DATA



SEWER TRENCH SECTION

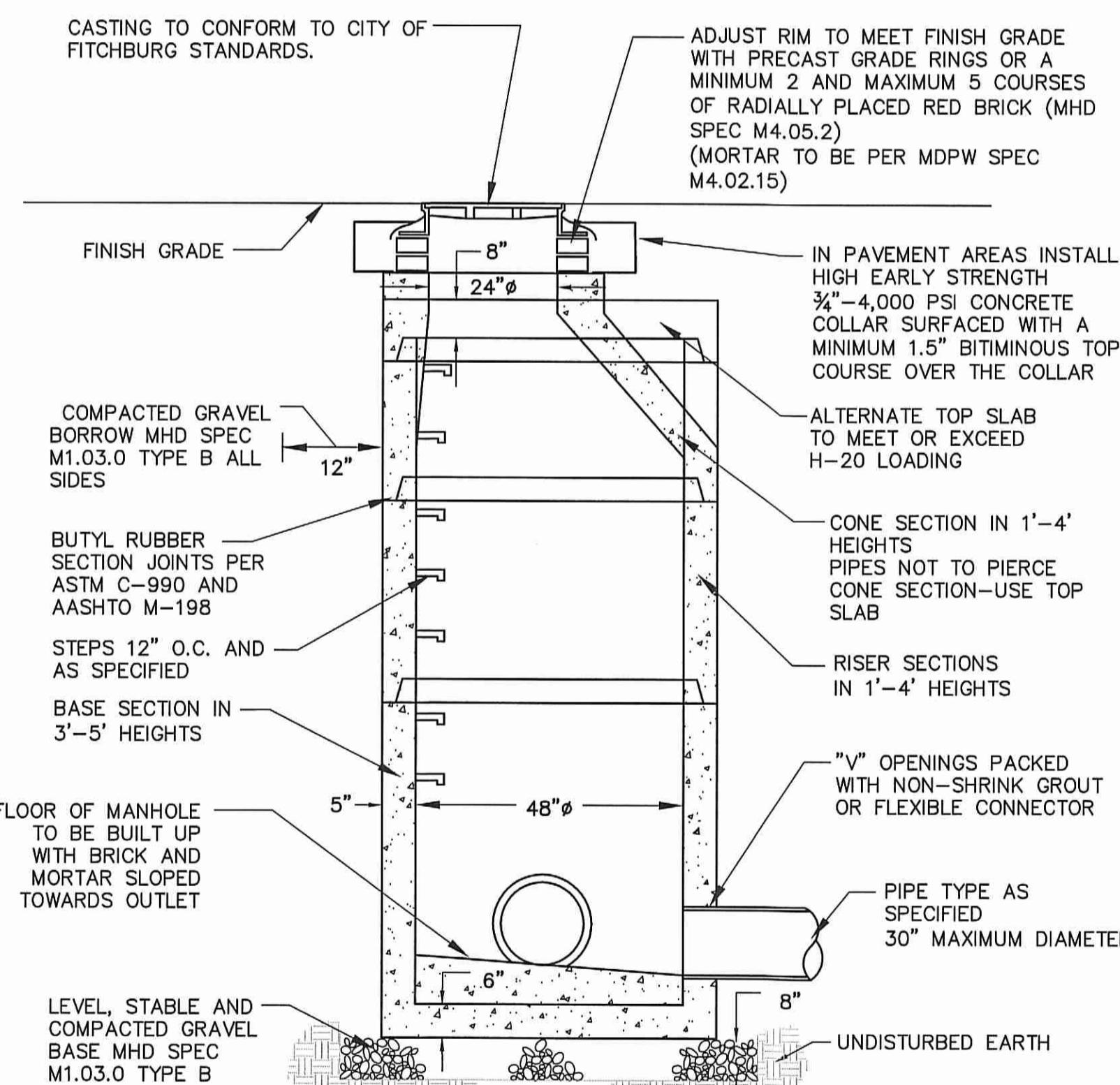
N.T.S.



NOTES:
1. EXCAVATION TO ALLOW FOR FREE TRAVEL OF COMPACTION EQUIPMENT
2. ALL COMPACTION TO A MINIMUM 95 PERCENT DRY DENSITY DETERMINED BY ASTM D1557
SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
3. ALL PRECAST TO MEET OR EXCEED ASTM C-478 AND AASHTO M 199 SPECIFICATIONS
4. REINFORCED STEEL TO MEET OR EXCEED ASTM A185 AND H-20 LOADING REQUIREMENTS
5. ALL PRECAST CONCRETE TO BE 4,000 PSI MINIMUM AND MEET ASTM C-478 (6.1)
6. IF NO STEPS ARE SPECIFIED THAN AS THE LOCAL MUNICIPALITY REQUIRES OR IF NO
MUNICIPALITY REQUIREMENTS THEN COPOLYMER POLYPROPYLENE COATED REINFORCED PER
ASTM C-478 AND OSHA (STD 1-1.9)
7. FILL ALL INTERNAL AND EXTERNAL HOLES WITH NON-SHRINK GROUT

4' I.D. DIAMETER PRECAST CONCRETE SEWER MANHOLE

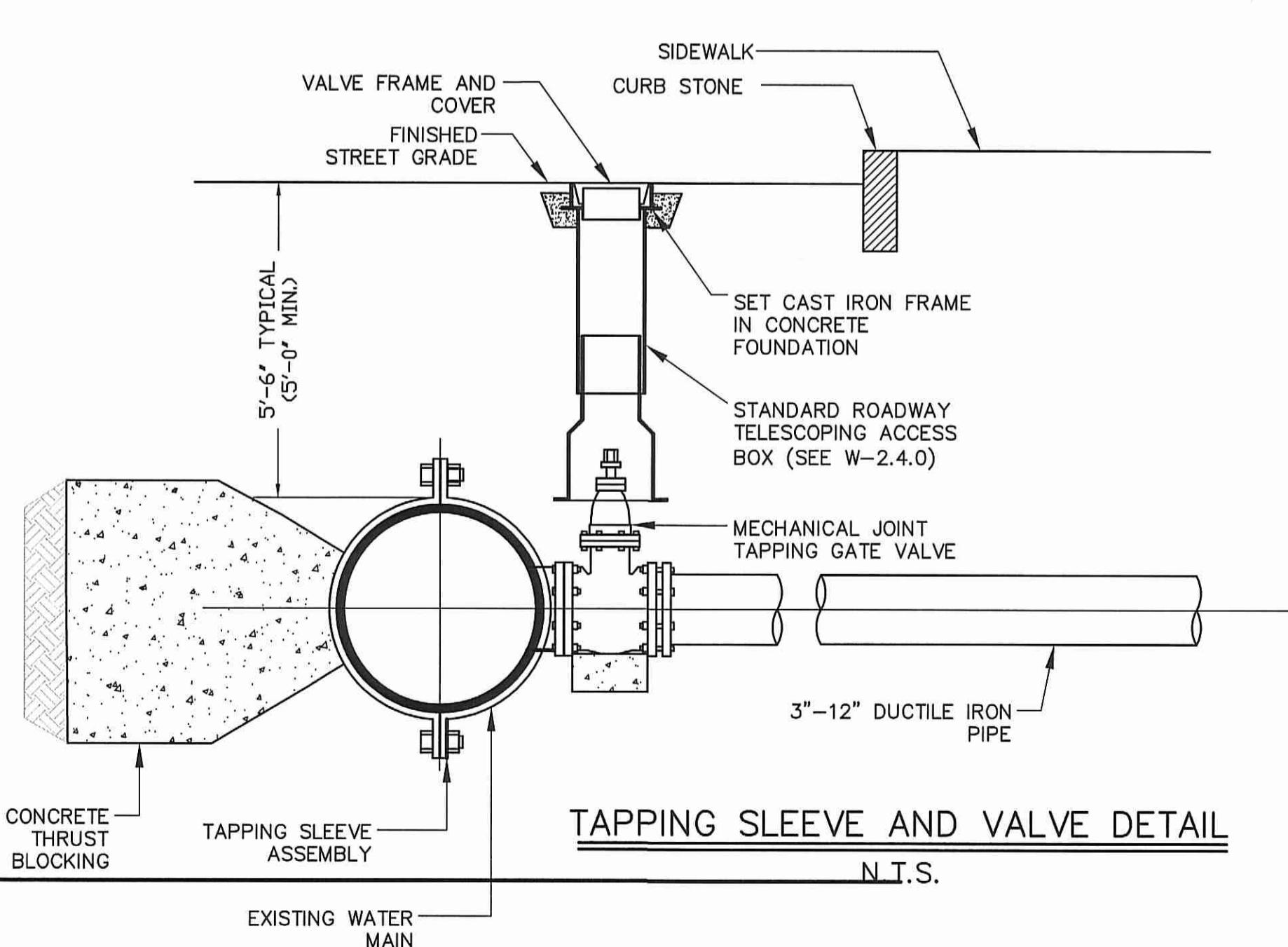
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ASTM C-478 AND OSHA (STD 1-1.9)
7. CONTRACTOR TO CONFIRM WITH CITY OR TOWN DPW THAT BRICK INVERTS ARE NOT A
REQUIREMENT
8. FILL ALL INTERNAL AND EXTERNAL HOLES WITH NON-SHRINK GROUT

PRECAST CONCRETE DRAIN MANHOLE DETAIL

N.T.S.



TAPPING SLEEVE AND VALVE DETAIL

N.T.S.

8	05/11/2023	Response to Comments
7	3/14/2023	No Change
6	11/16/2021	No Change
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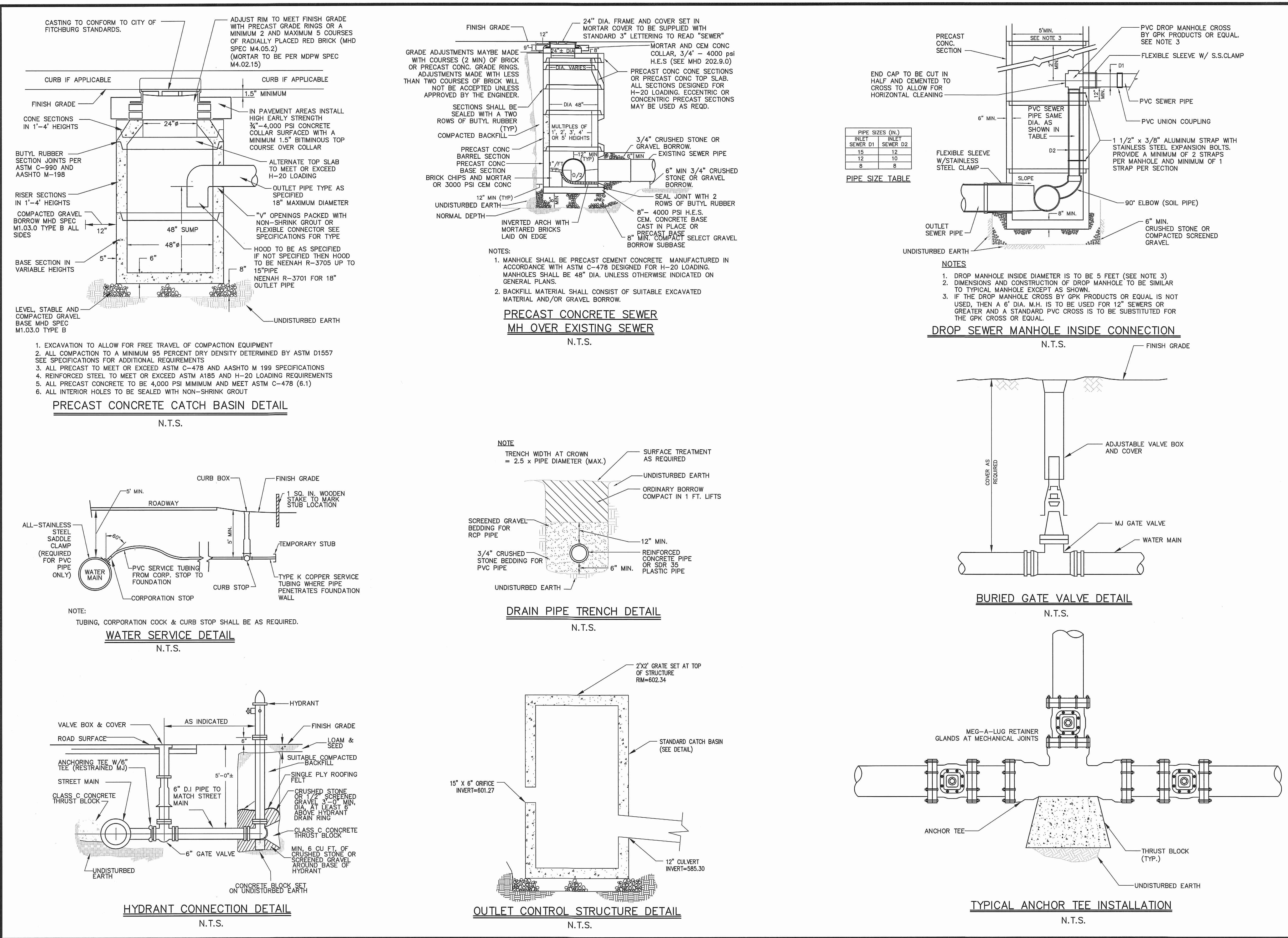
Drawn By: PJM
Designed By: PJM
Checked By: PJM

McCarthy Engineering, Inc.
Civil Engineers

42 Tucker Drive, Leominster, MA 01453
phone: (978) 534-1318 fax: (978) 840-6907

Project Name: Special Permit Plans
Beech Street
Fitchburg, MA

Sheet Title: Construction
Details



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Br. Markins 5/11/23

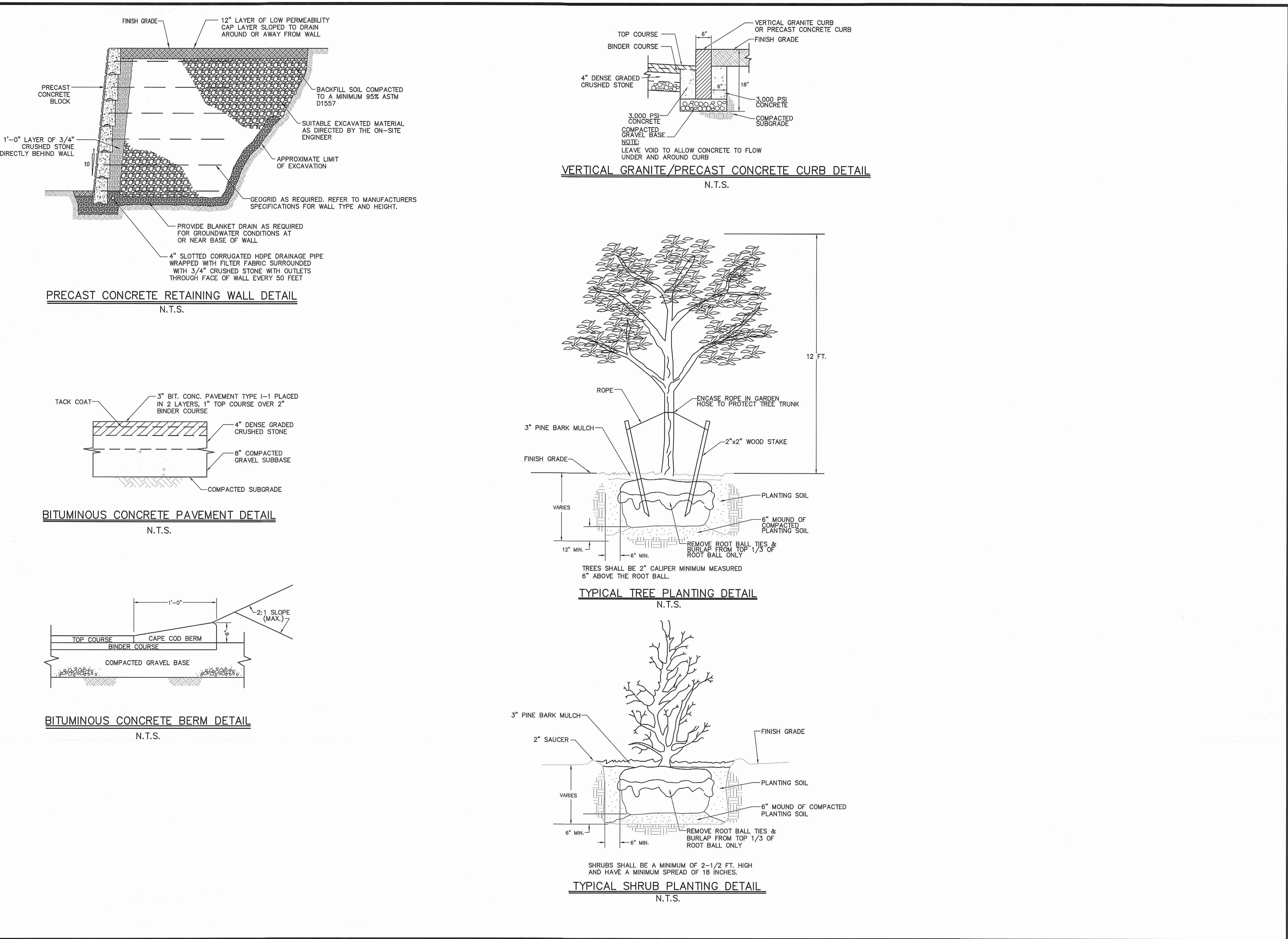
McCarty Engineering, Inc.
Civil Engineers
42 Tucker Drive, Leominster, MA 01453

Project Name
Special Permit Plans
Beech Street
Fitchburg, MA

Sheet Title

Construction Details

Job No. 011 Sheet No.
File Name. 011P-DET02
Date. June 22, 2007 **7**
Scale. N.T.S



McCarty Engineering, Inc.
Civil Engineers
42 Tucker Drive, Leominster, MA 01453
phone: (978) 534-1318 fax: (978) 840-6907

Project Name
Special Permit Plans
Beech Street
Fitchburg, MA

Sheet Title
Construction
Details

Job No: 0111
File Name: 011P-DET02
Date: May 11, 2023
Scale: N.T.S.

THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE SAFETY FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SECTION 12.12 FOR EARTH AND LIVE LOADS, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.

CHAMBERS SHALL MEET ASTM F 2418-05 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORROUGATED WALL STORMWATER COLLECTION CHAMBERS".

THE SC-740 CHAMBER IS DESIGNED FOR UNPAVED INSTALLATION WHERE RUTTING FROM VEHICLES MAY OCCUR. FOR UNPAVED INSTALLATION WHERE RUTTING FROM VEHICLES MAY OCCUR, THE DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING SUITABILITY OF SUBGRADE SOILS.

CRUSHED, ANGULAR STONE, 3/4 - 2 INCH WASHED, CRUSHED, ANGULAR STONE.

ADS 601 GEOTEXTILE OR EQUAL, 4X PIPE Ø MIN.

PAVEMENT, <35% FINES, COMPACT IN 6 IN LIFTS TO 95% PROCTOR DENSITY. SEE THE TABLE OF ACCEPTABLE FILL MATERIALS.

SC-740 CHAMBER, 18" MIN. 6" MAX. EL=602.86

SC-740 END CAP, 6" MIN. 6" MAX. EL=602.36

NUMBER AND SIZE OF UNDERDRAINS PER ENGINEER DESIGN

12" MIN. TYP. 30"

EL=599.86 6" STONE BED EL=599.36

DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING SUITABILITY OF SUBGRADE SOILS.

THIS CROSS SECTION DETAILS THE REQUIREMENTS NECESSARY TO SATISFY THE SAFETY FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS USING STORMTECH CHAMBERS

*SEE STORMTECH DESIGN MANUAL

FOR STORMTECH INFORMATION CALL 1-888-892-2694

ST 1.0 SC-740 TYPICAL CROSS SECTION

ACCEPTABLE FILL MATERIALS
STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION	AASHTO M145 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
FILL MATERIAL FROM 18" TO GRADE ABOVE CHAMBERS	ANY SOIL/ROCK MATERIALS, NATIVE SOILS OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
FILL MATERIAL FOR 6" TO 18" ELEVATION ABOVE CHAMBERS (24" FOR UNPAVED INSTALLATIONS)	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES.	3, 357, 4, 467, 5, 55, 57, 6, 67, 68, 7, 18, 8, 69, 9, 10	A-1 A-2 A-3	COMPACT IN 6" LIFTS TO A MINIMUM 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LBS. DYNAMIC FORCE NOT TO EXCEED 20,000 LBS.
EMBEDMENT STONE SURROUNDING AND TO A 6" ELEVATION ABOVE CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 3/4 - 2 INCH	3, 357, 4, 467, 5, 55, 57	N/A	NO COMPACTION REQUIRED
FOUNDATION STONE BELOW CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 3/4 - 2 INCH	3, 357, 4, 467, 5, 55, 57	N/A	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY

PLEASE NOTE: THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE WASHED CRUSHED ANGULAR. FOR EXAMPLE, THE STONE MUST BE SPECIFIED AS WASHED, CRUSHED, ANGULAR NO. 4 STONE.

ST 3.0 STORMTECH ACCEPTABLE FILL MATERIALS

MANHOLE WITH OVERFLOW WEIR
ECCENTRIC HEADER
PLACE MINIMUM 12.5' OF AASHTO M288 CLASS 1 WOVEN GEOTEXTILE OVER BEDDING STONE FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS
STORMTECH PREFABRICATED END CAPS
12.5' MIN

ST 4.0 STORMTECH ISOLATOR™ ROW MANIFOLD DETAIL

CATCH BASIN OR MANHOLE
SUMP DEPTH BY DESIGN ENGINEER
AASHTO M288 CLASS 1 WOVEN GEOTEXTILE OR EQUAL, BETWEEN FOUNDATION STONE AND CHAMBERS SC-740-5'6" WIDE STRIP SC-310-4" WIDE STRIP
INSPECTION PORT BY DESIGN ENGINEER
STORMTECH END CAP
COVER ENTIRE ROW WITH AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE OR EQUAL SC-740-8" WIDE STRIP SC-310-5" WIDE STRIP
FOR STORMTECH INFORMATION CALL 1-888-892-2694

ST 5.0 STORMTECH INSPECTION PORT DETAIL

STORMTECH SINGLE TEE MANUFACTURED BY ADS
STORMTECH DOUBLE MANIFOLD MANUFACTURED BY ADS
STORMTECH TRIPLE ECCENTRIC MANIFOLD MANUFACTURED BY ADS
FOR INFORMATION CALL 1-888-892-2694
MANIFOLDS ARE DESIGNED TO BE COUPLED TO STORMTECH PREFABRICATED END CAPS. WHEN USING STANDARD END CAPS, CORRUGATE PIPE UP TO 18 INCHES CAN BE INSERTED DIRECTLY INTO THE END CAP. FOR 24" INLET PIPES, A CORRUGATED TO SMOOTH PIPE ADAPTER IS REQUIRED.

ST 6.0 STORMTECH ISOLATOR™ ROW DETAIL

CATCH BASIN OR MANHOLE
SUMP DEPTH BY DESIGN ENGINEER
AASHTO M288 CLASS 1 WOVEN GEOTEXTILE OR EQUAL, BETWEEN FOUNDATION STONE AND CHAMBERS SC-740-5'6" WIDE STRIP SC-310-4" WIDE STRIP
FOR STORMTECH INFORMATION CALL 1-888-892-2694

ST 7.0 ADS MANIFOLD DETAILS

HEADER PIPE SIZES

STUB SIZE	48"	42"	36"	30"	24"	18"	15"	12"	10"	8"
24"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	-	-	-	-
18"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	-	-	-	-
15"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	-	-	-	-
12"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	-	-	-	-
10"	-	-	-	-	-	-	-	-	-	-
8"	-	-	-	-	-	-	-	-	-	-

AVAIL - STANDARD HEADERS AVAILABLE

ST 8.0 STORMTECH ELEVATIONS

FLOOR BOX FRAME AND LID W/S. CAP SCREW LID CLOSURE
INSPECTION PORT WITH SCREW-IN CAP
PAVEMENT
CLASS "C" CONCRETE
AASHTO M288 CLASS 2
NON-WOVEN GEOTEXTILE
4" PVC RISER
18" MIN. MAX.
SC-740 CHAMBER
AASHTO M288 CLASS 2
NON-WOVEN GEOTEXTILE
INSPECTION PORT TO BE ATTACHED THROUGH KNOCK-OUT LOCATED AT CENTER OF CHAMBER
FOR STORMTECH INFORMATION CALL 1-888-892-2694

ST 9.0 TECHNICAL DETAILS

PROPOSED LAYOUT
(12) STORMTECH SC-740 CHAMBERS INSTALLED WITH 6" COVER STONE, 6" BASE STONE, 40% STONE VOID INSTALLED SYSTEM VOLUME: 1,038.5 CF AREA OF SYSTEM: 505.58 FT² PERIMETER OF SYSTEM: 95.7 FT

PROPOSED ELEVATION
TOP OF STONE: 602.86 BOTTOM OF STONE: 599.36 TOP OF CHAMBER: 602.36 BOTTOM OF CHAMBER: 599.86

UNDERGROUND INFILTRATION BASIN (SC-740 - 12 CHAMBERS)
SCALE: 1"=20'

REVISIONS DATE

STORMTECH, LLC
20 BEAVER RD, SUITE 104
WETHERSFIELD, CT 06109
tel. 888-892-2694
fax 866-328-8401
WWW.STORMTECH.COM

BRIAN MARCHETTI
P.E. COMM. W. MASSACHUSETTS
NO. 46279
REGISTERED PROFESSIONAL ENGINEER

TS. Mankos 5/11/23

DRAWING TITLE
Stormtech Infiltration Basin Details

STORMTECH SC-740 CHAMBER DETAIL SHEET
SAVED AS 011P DET-Stormtech
DRAWN BY JLL CHECKED BY BRM
SCALE NTS DRAWING NO.
DATE 5/11/2023 9
PROJECT NO. 011

CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND SAFETY FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS LOADS SHALL BE CALCULATED IN ACCORDANCE WITH SECTION 3 AND SHALL INCLUDE H20 DESIGN TRUCK, IMPACT FACTOR, MULTIPLE PRESENCE, AND LANE LOAD.

ST 10.0 STORMTECH SC-740 CHAMBER LAYOUT

STORMTECH CHAMBERS
FOUNDATION STONE
PERFORATED UNDERDRAIN PIPE
ADS 601 GEOTEXTILE OR EQUAL 4X PIPE Ø MIN
STONE BEDDING UNDER DRAINAGE PIPE (PER DESIGN)
SECTION A_A
STORMTECH CHAMBER
FOUNDATION STONE BENEATH CHAMBER
ADS 601 GEOTEXTILE OR EQUAL 4X PIPE Ø MIN
STONE BEDDING UNDER DRAINAGE PIPE (PER DESIGN)
SECTION B_B
TO OUTLET CONTROL STRUCTURE
No Underdrain Required
STORMTECH CHAMBER
PERFORATED UNDERDRAIN PIPE
ADS 601 GEOTEXTILE OR EQUAL 4X PIPE Ø MIN
STONE BEDDING UNDER DRAINAGE PIPE (PER DESIGN)
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STORMTECH CHAMBER
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