

PROPOSED GREENVILLE HOUSE PRC (PROCESS REHABILITATION CENTER) TAX MAP 5, LOTS 32 & 32-1 OLD MILL, 21 CHAMBERLIN STREET, GREENVILLE, HILLSBOROUGH COUNTY, NH 03048 DATE: NOVEMBER 9, 2022

Applicant: GEORGE'S REALTY, LLC
c/o Wilsoney Georges
100 Carl Drive, Unit 11a
Manchester, New Hampshire 03103

Owner: MCKENAN PROPERTIES, LLC
100 Carl Drive, Unit 8
Manchester, New Hampshire 03103

Architect: LAUER ARCHITECTS, PA
118 Paige Hill Road
Goffstown, New Hampshire 03045

Surveyor & Civil Engineer: ECKMAN ENGINEERING, LLC
1950 Lafayette Road
Portsmouth, New Hampshire 03802

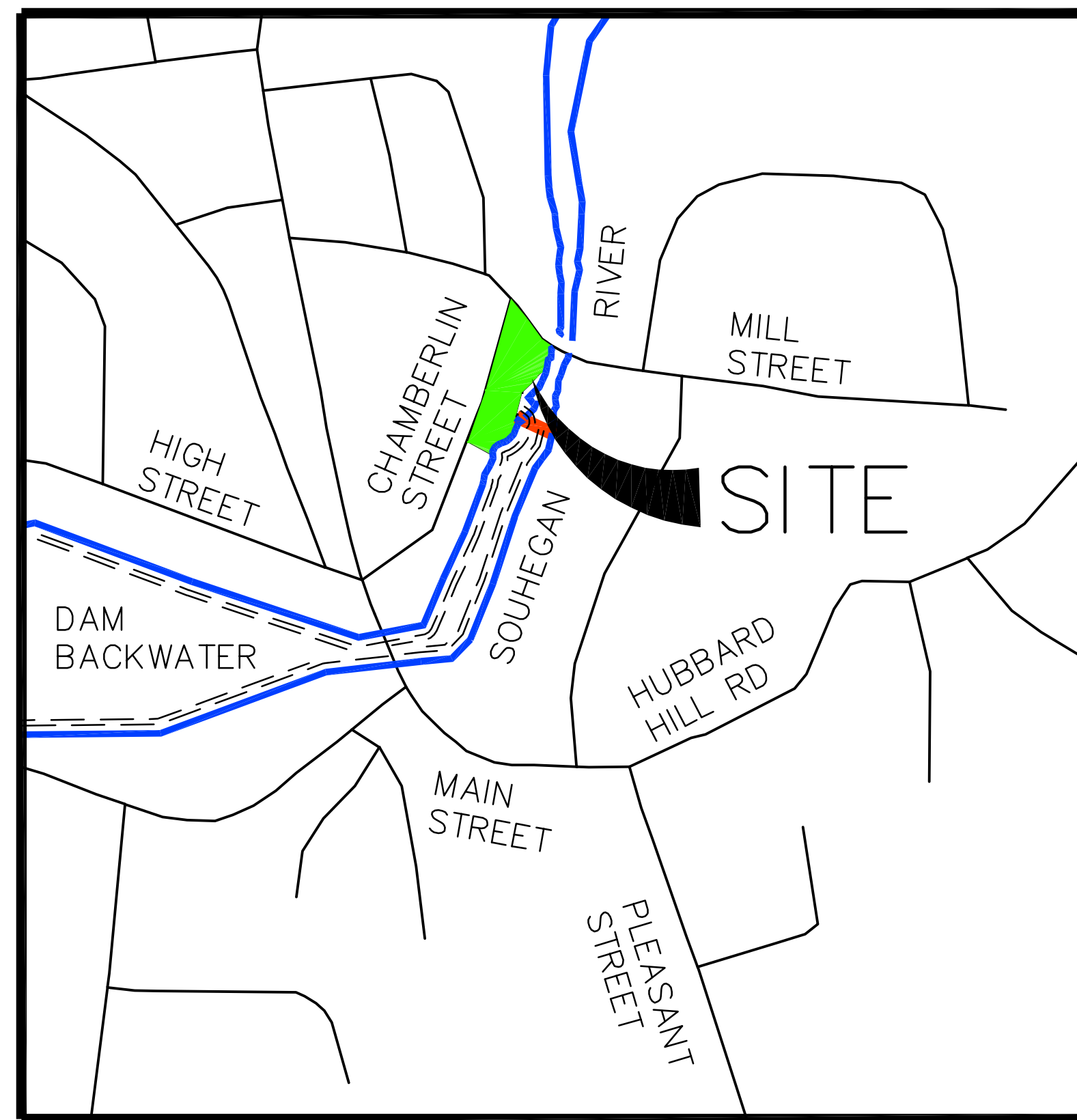
Wetlands/Environ. Scientist: RCS DESIGNS
P.O. BOX 487
Bradford, New Hampshire 03221

Geotechnical Engineer: GEOTECHNICAL SERVICES, INC
55 N STARK HIGHWAY
Weare, New Hampshire 03281

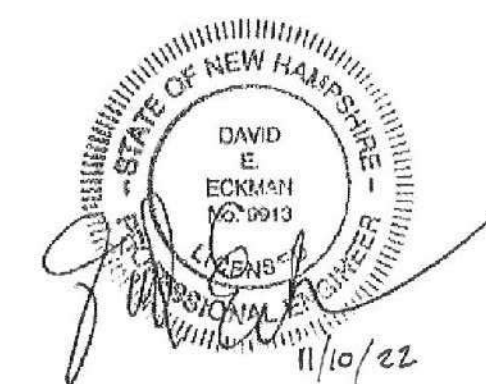
Traffic Engineer: TEPP, LLC
93 Stiles Road, Suite 201
Salem, NH 03079

Landscape Architect: JSLA, LLC
72 Shaker Street
Sutton, New Hampshire 03260

Lighting Design Consultant: VISIBLE LIGHT, INC.
24 Stickney Terrace, Suite 6
Hampton, New Hampshire 03842



LOCUS (NTS)



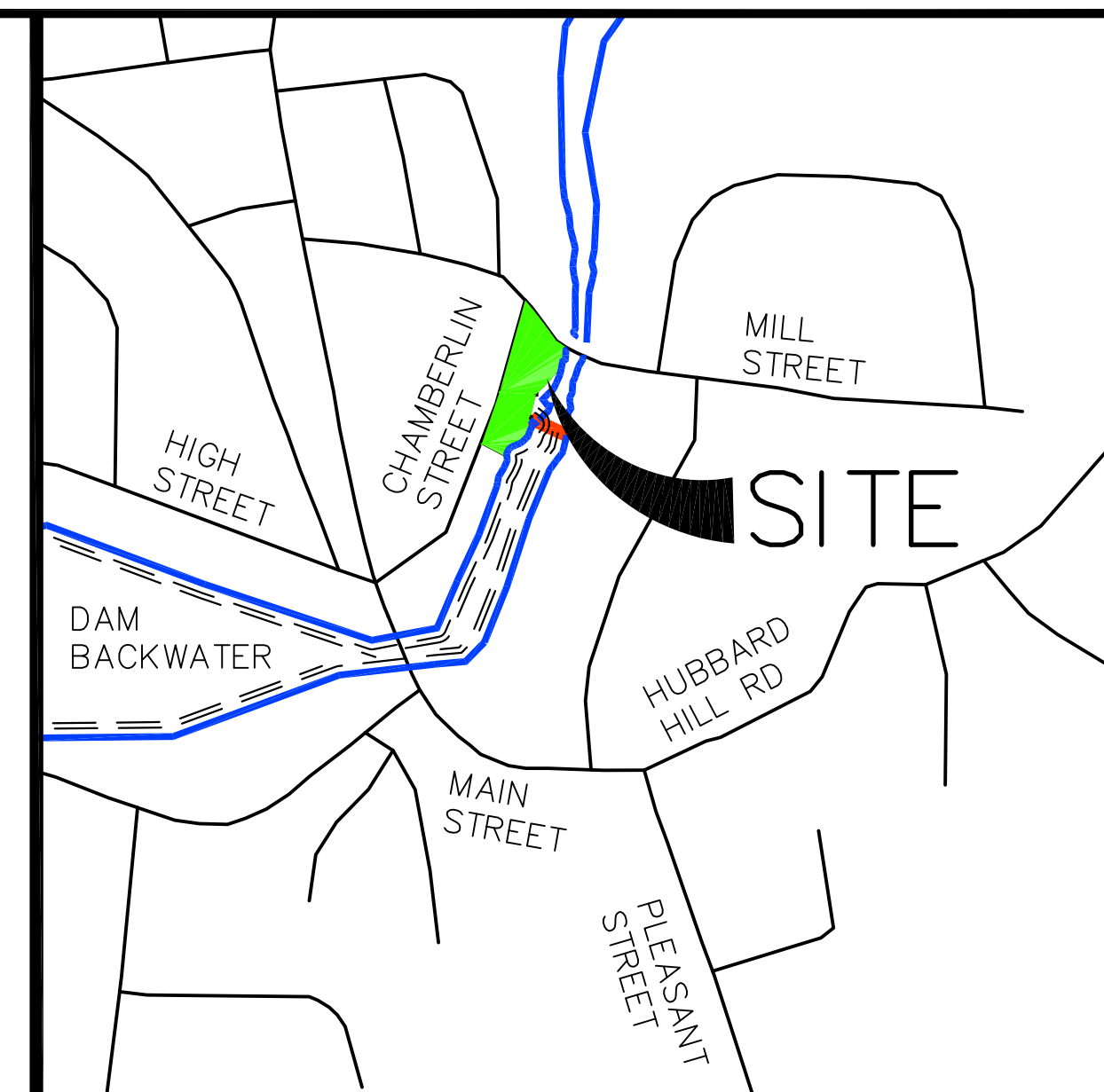
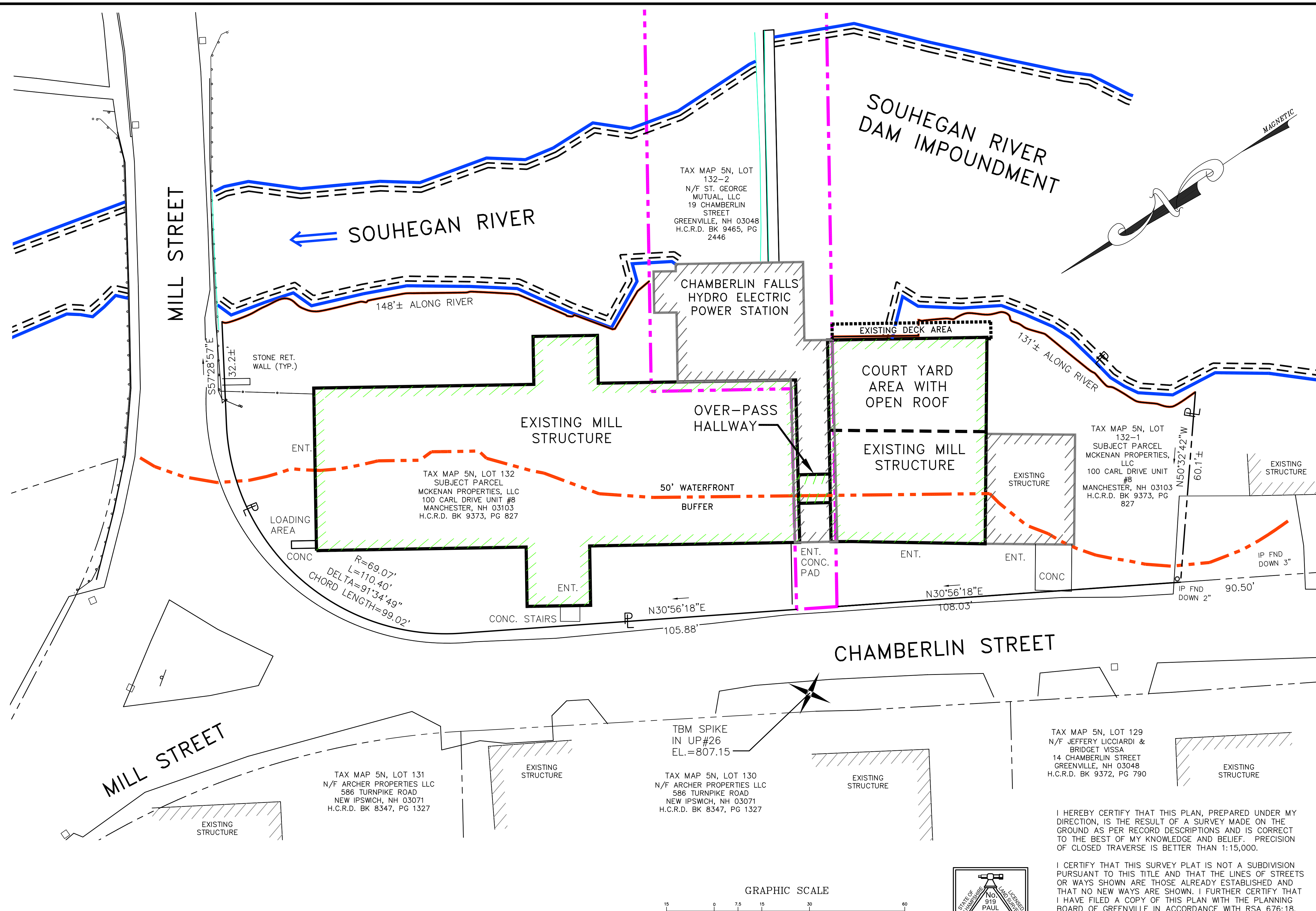
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Architectural Elevations	Elev 1 & Elev 2

PLAN SIZE:
FULL SIZE PLANS ARE 24x36
11x17 ARE APPROXIMATE HALF SCALES

**FOR APPROVAL ONLY
NOT FOR CONSTRUCTION**

<p>OWNER: MCKENAN PROPERTIES, LLC 100 CARL DRIVE UNIT #8 MANCHESTER, NH. 03103</p>	<p>APPLICANT: GEORGES REALTY, LLC c/o WIL GEORGES 100 CARL DRIVE, 11a MANCHESTER, NH. 03103</p>	<p>ECKMAN Engineering, LLC 1950 Lafayette Road Unit 210, PO Box 8025 Portsmouth, New Hampshire 03802 Phone: (603) 433-1354 Fax: (603) 433-2367</p>
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GREENVILLE HOUSE PRC – OLD MILL REHABILITATION			
TOWN GREENVILLE, NEW HAMPSHIRE		BRIDGE NO. -----	
FEDERAL PROJECT -----		NHDOT PROJECT <u>N/A</u>	
LOCATION TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1, OLD MILL OLD MILL, 21 CHAMBERLIN ST., GREENVILLE, HILLSBORO COUNTY, NH 03048			
COVER SHEET			
DESIGNED SRP	BY DATE 10/22	CHECKED DEE	BY DATE 11/22
DRAWN JJM	BY DATE 10/22	CHECKED DEE	BY DATE 11/22
TRACED		CHECKED	
QUANTITIES		CHECKED	
REVIEWED BY:		NHDOT PROJ. NO. NA	
		EE PROJ. NO. 22-105	
		DWG FILE 22-105_ENG	
No. 1		DESCRIPTION PROJECT TEAM LIST ADDITIONS/EDITS	
		BY DATE DEE 1/23	
		REVISIONS	



- ### LOCUS (NTS)
- NOTES:**
- 1.) THE SUBJECT PARCEL IS LOT 32 AND 32-1 ON THE TOWN OF GREENVILLE TAX MAP 5. THE OWNER OF RECORD IS GEORGE'S REALTY LLC.
 - 2.) THE PURPOSE OF THIS PLAN IS TO SHOW AN EXISTING CONDITIONS BASE PLAN FOR PLANNING PURPOSES.
 - 3.) HORIZONTAL DATUM ARE LOCAL AND ASSUMED, VERTICAL DATUM ESTABLISHED USING DIFFERENTIAL LEVELING FROM NHDOT BENCHMARK DISK STAMPED 831 P. (NAVD 88)
 - 4.) THE SUBJECT PARCEL IS LOCATED IN THE DOWNTOWN (D) DISTRICT. SETBACKS ARE AS FOLLOWS SIDE 10', REAR 10' FRONT NONE.
 - 5.) ECKMAN ENGINEERING'S SURVEY FIELD CREW COMPLETED A BOUNDARY RETRACEMENT AND EXISTING CONDITIONS SURVEY IN AUGUST OF 2022 WHICH WAS SUPPLEMENTED IN SEPT. 2022.
- REFERENCE PLANS:**
- 1.) REFERENCE PLAN ENTITLED "SUBDIVISION PLAN OF LAND NEARY-HAYWARD PROPERTIES GREENVILLE N.H." BY THOMAS F. MORAN INC. DATED AUGUST 5, 1981 AND RECORDED AT THE H.C.R.D AS PLAN #14478.

ABBREVIATION AND SYMBOL LEGEND

H.C.R.D.	HILLSBORO COUNTY REGISTRY OF DEEDS
IPF ○	IRON PIPE FOUND
IRF ○	IRON ROD FOUND
IR(SET) ●	IRON TO BE SET
○	UTILITY POLE
□	DRAINAGE CATCH BASIN
⊙	FIRE HYDRANT (TYP.)
⊕	WATER VALVE (TYP.)
⊗	SEWER MANHOLE (TYP.)
—OHU—	OVERHEAD UTILITIES (TYP.)
- - -	EDGE OF GRAVEL
- · - · -	GUARD RAIL (TYP.)
⊘	STONE WALL (TYP.)
- · - · -	WATERFRONT BUFFER (TYP.)
- · - · -	NHDES REF LINE (TYP.)
—P—	PROPERTY LINE (TYP.)
⊖	SHORELINE (TYP.)

GREENVILLE HOUSE PRC - OLD MILL REHABILITATION

TOWN GREENVILLE, NEW HAMPSHIRE BRIDGE NO. ----

FEDERAL PROJECT ---- NHDOT PROJECT N/A

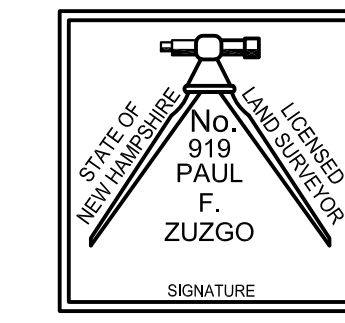
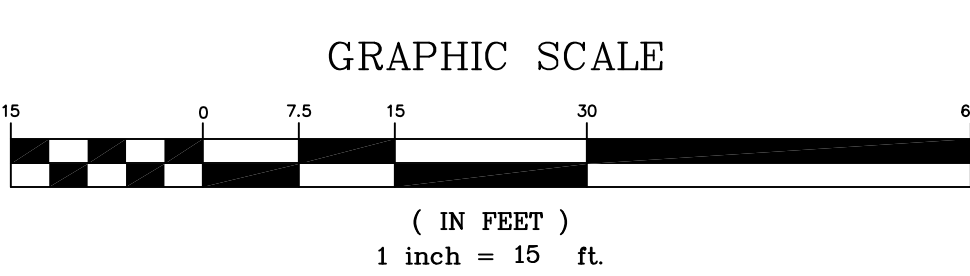
LOCATION TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1
OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH

BOUNDARY RETRACEMENT PLAN			
DESIGNED	SRP	BY DATE	EE PROJ. NO.
DRAWN	JJM	8/22	22-105
TRACED			DWG FILE
QUANTITIES			22-105_ENG
REVIEWED BY:		NHDOT PROJ. NO.	BND-1
		NA	

I HEREBY CERTIFY THAT THIS PLAN, PREPARED UNDER MY DIRECTION, IS THE RESULT OF A SURVEY MADE ON THE GROUND AS PER RECORD DESCRIPTIONS AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. PRECISION OF CLOSED TRAVERSE IS BETTER THAN 1:15,000.

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS OR WAYS SHOWN ARE THOSE ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN. I FURTHER CERTIFY THAT I HAVE FILED A COPY OF THIS PLAN WITH THE PLANNING BOARD OF GREENVILLE IN ACCORDANCE WITH RSA 676:18.

Paul F. Zuzgo
PAUL F. ZUZGO / C.L.S. #919 DATE 8/25/22

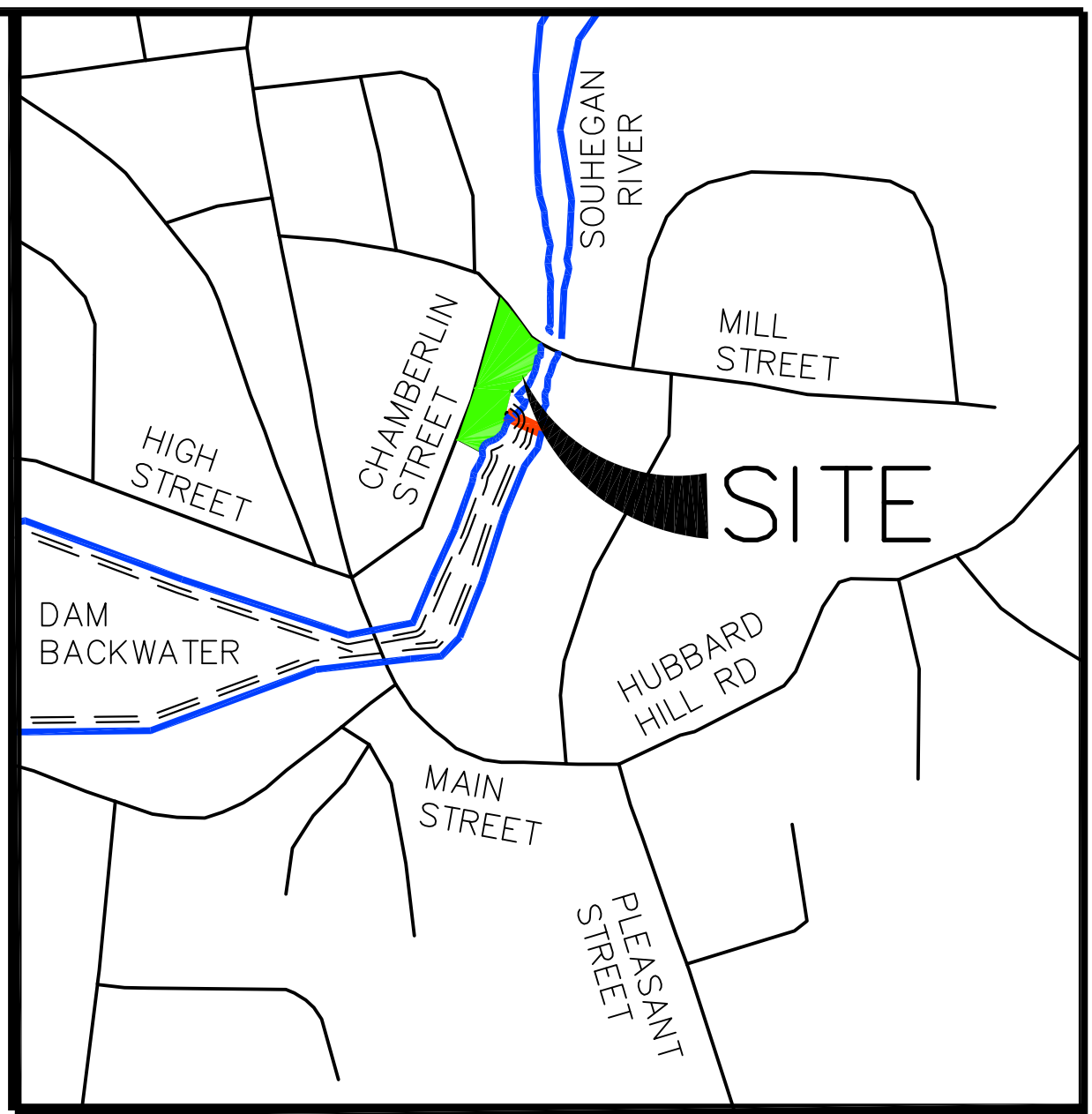
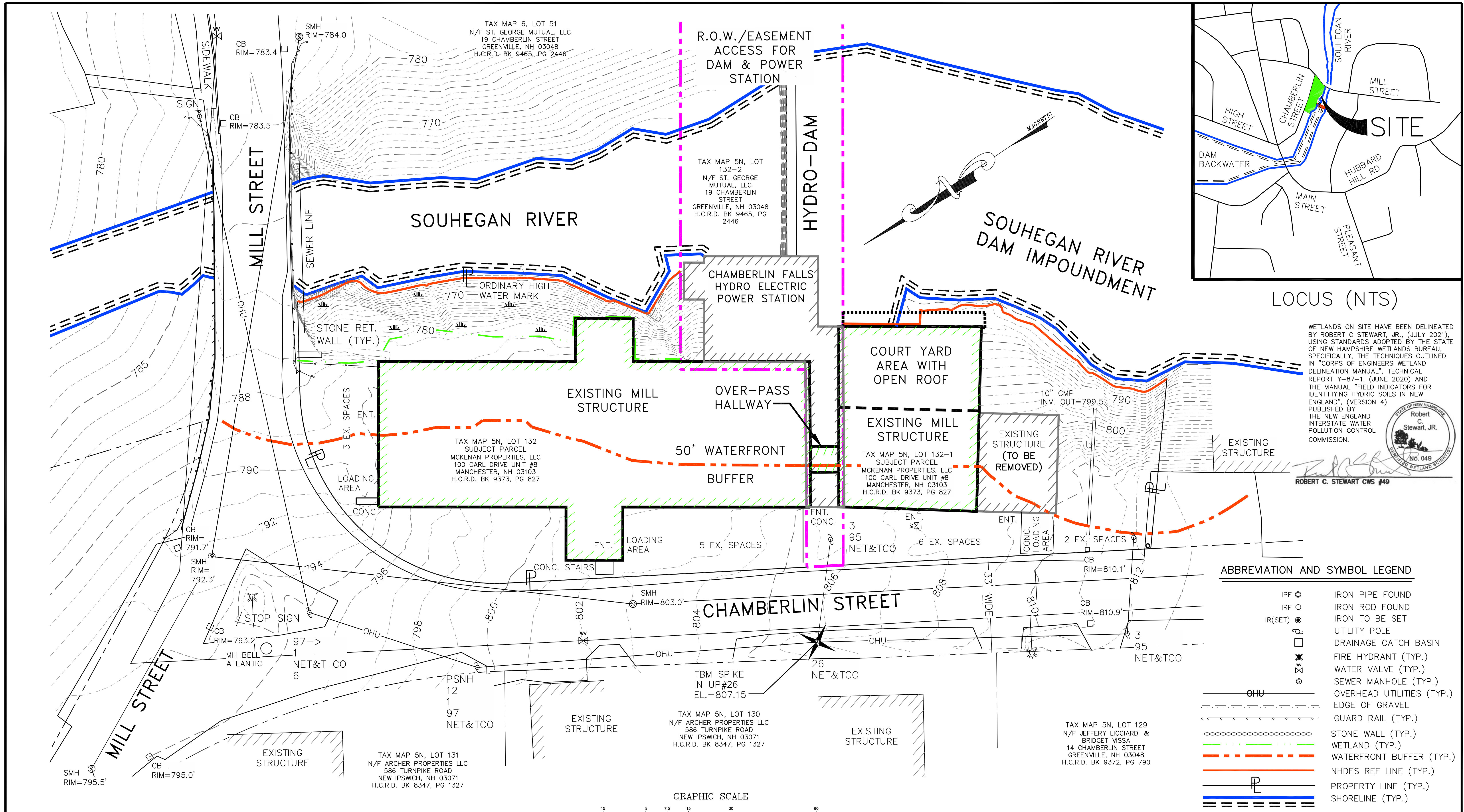


No.	DESCRIPTION	BY	DATE
1	MISCELLANEOUS BUILDING & PLAN NOTE UPDATES	DEE	12/22
REVISIONS			

OWNER: MCKENAN PROPERTIES, LLC 100 CARL DRIVE UNIT #8 MANCHESTER, NH. 03103	APPLICANT: GEORGES REALTY, LLC c/o WIL GEORGES 100 CARL DRIVE, 11a MANCHESTER, NH. 03103	ECKMAN Engineering, LLC 1950 Lafayette Road Unit 210, PO Box 8025 Portsmouth, New Hampshire 03802 Phone: (603) 433-1354 Fax: (603) 433-2367
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PLAN SIZE:
FULL SIZE PLANS ARE 24x36
11x17 ARE APPROXIMATE HALF SCALES

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WETLANDS ON SITE HAVE BEEN DELINEATED BY ROBERT C STEWART, JR., (JULY 2021), USING STANDARDS ADOPTED BY THE STATE OF NEW HAMPSHIRE WETLANDS BUREAU, SPECIFICALLY, THE TECHNIQUES OUTLINED IN "CORPS OF ENGINEERS WETLAND DELINEATION MANUAL", TECHNICAL REPORT Y-87-1, (JUNE 2020) AND THE MANUAL "FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND", (VERSION 4) PUBLISHED BY THE NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION.

Robert C. Stewart, Jr.
No. 049
WETLAND DELINEATOR

ROBERT C. STEWART CWS #49

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OWNER: **MCKENAN PROPERTIES, LLC**
100 CARL DRIVE UNIT #8
MANCHESTER, NH. 03103

APPLICANT: **GEORGES REALTY, LLC**
c/o WIL GEORGES
100 CARL DRIVE, 11a
MANCHESTER, NH. 03103

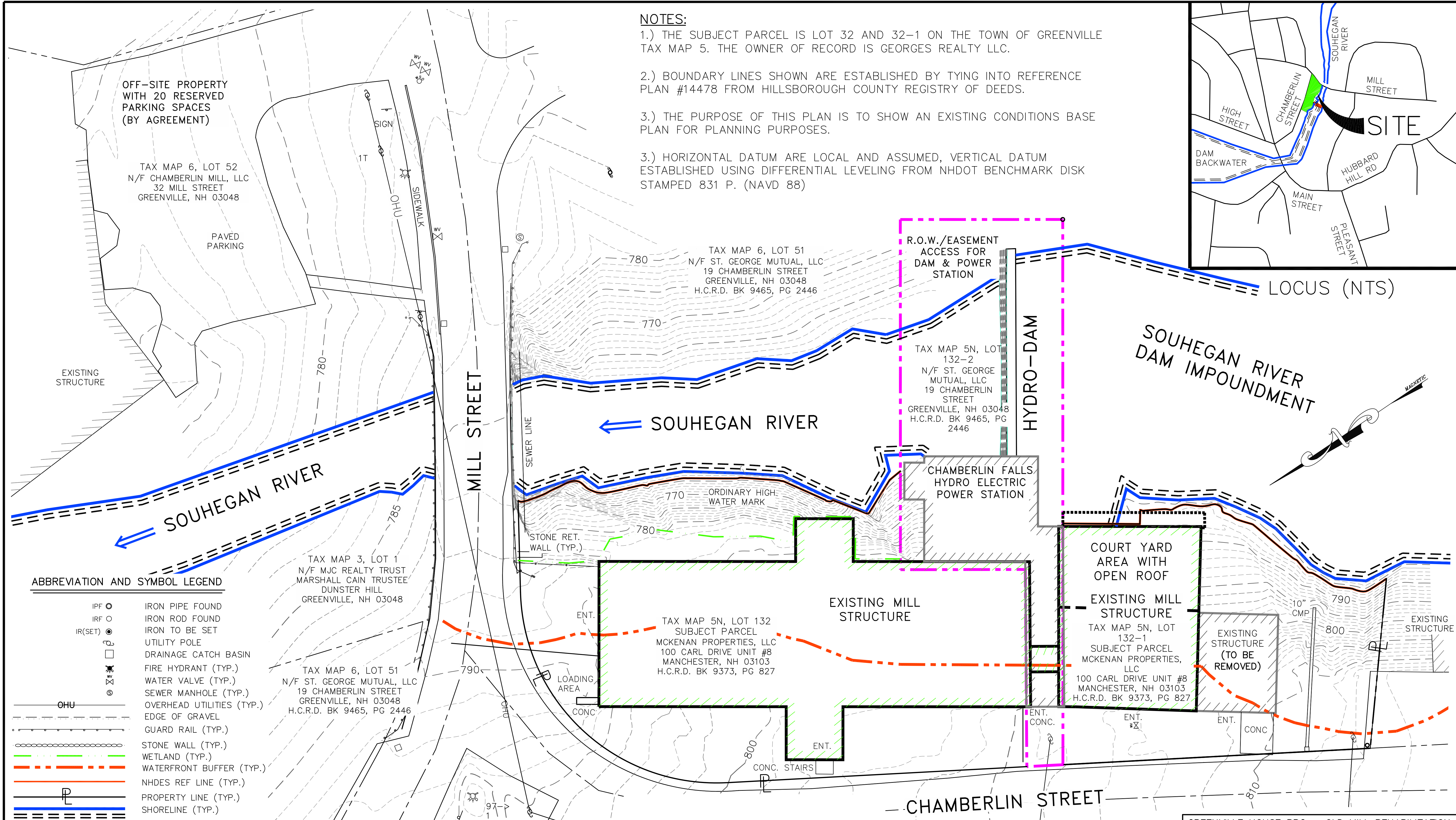
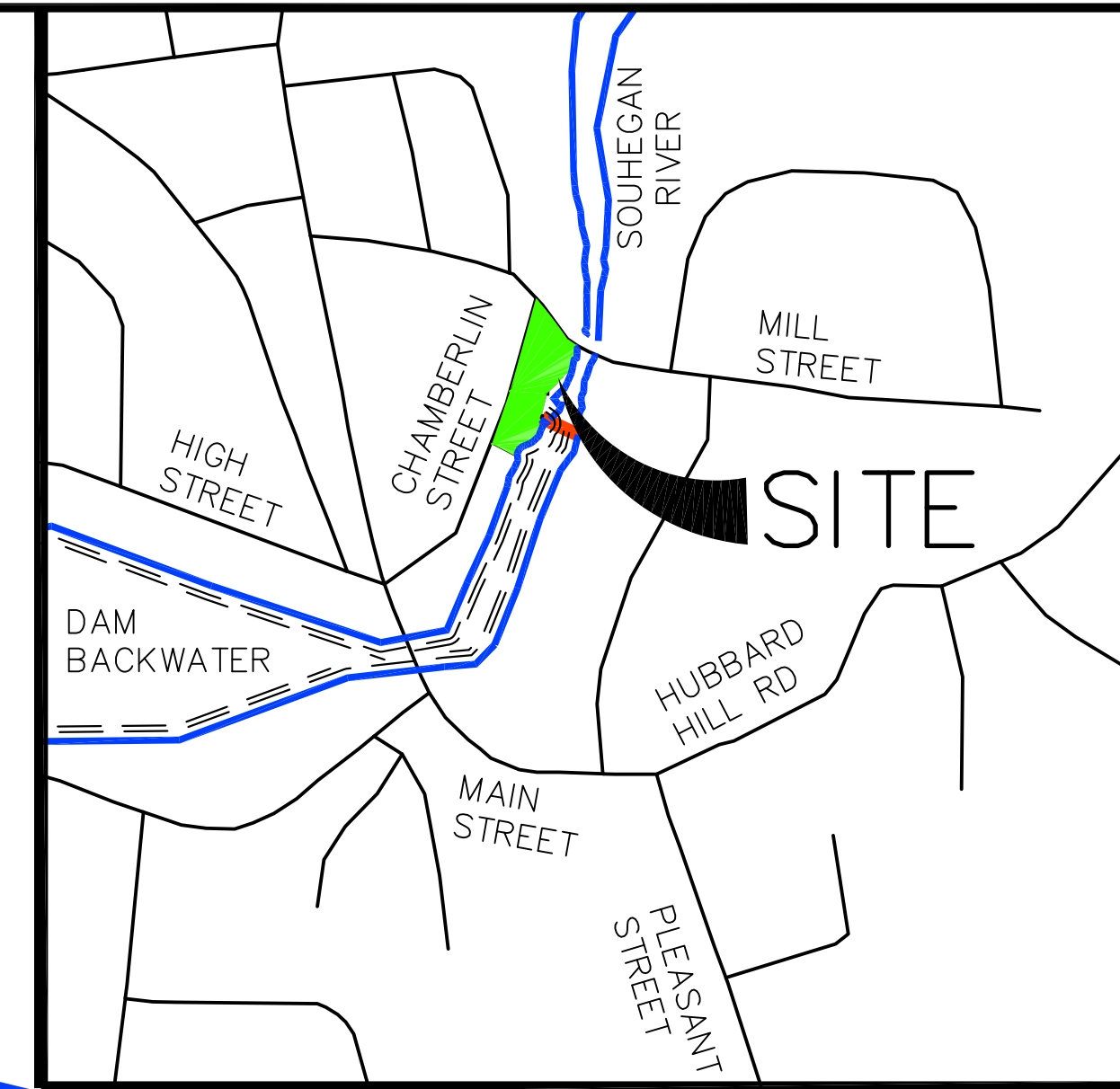
ECKMAN Engineering, LLC
1950 Lafayette Road Unit 210, PO Box 8025
Portsmouth, New Hampshire 03802
Phone: (603) 433-1354
Fax: (603) 433-2367

No.	DESCRIPTION	BY	DATE
1	MISCELLANEOUS BUILDING & PLAN NOTE UPDATES	DEE	12/22

GREENVILLE HOUSE PRC - OLD MILL REHABILITATION			
TOWN	GREENVILLE, NEW HAMPSHIRE	BRIDGE NO.	----
FEDERAL PROJECT	-----	NHDOT PROJECT	N/A
LOCATION	TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1 OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH		
EXISTING CONDITIONS & WETLAND LOCATION PLAN			
DESIGNED	SRP	BY DATE	10/22
DRAWN	JUM	CHECKED	DEE 11/22
TRACED		CHECKED	DEE 11/22
QUANTITIES		CHECKED	
REVIEWED BY:		NHDOT PROJ. NO.	NA
		EE PROJ. NO.	22-105
		DWG FILE	22-105_ENG
			EX-1

NOTES:

- 1.) THE SUBJECT PARCEL IS LOT 32 AND 32-1 ON THE TOWN OF GREENVILLE TAX MAP 5. THE OWNER OF RECORD IS GEORGES REALTY LLC.
- 2.) BOUNDARY LINES SHOWN ARE ESTABLISHED BY TYING INTO REFERENCE PLAN #14478 FROM HILLSBOROUGH COUNTY REGISTRY OF DEEDS.
- 3.) THE PURPOSE OF THIS PLAN IS TO SHOW AN EXISTING CONDITIONS BASE PLAN FOR PLANNING PURPOSES.
- 3.) HORIZONTAL DATUM ARE LOCAL AND ASSUMED, VERTICAL DATUM ESTABLISHED USING DIFFERENTIAL LEVELING FROM NHDOT BENCHMARK DISK STAMPED 831 P. (NAVD 88)



ABBREVIATION AND SYMBOL LEGEND

- IPF ○ IRON PIPE FOUND
- IRF ○ IRON ROD FOUND
- IR(SET) ○ IRON TO BE SET
- UTILITY POLE
- DRAINAGE CATCH BASIN
- ⊕ FIRE HYDRANT (TYP.)
- ⊕ WATER VALVE (TYP.)
- ⊕ SEWER MANHOLE (TYP.)
- ⊕ OVERHEAD UTILITIES (TYP.)
- OHU OVERHEAD UTILITIES (TYP.)
- EDGE OF GRAVEL
- GUARD RAIL (TYP.)
- STONE WALL (TYP.)
- WETLAND (TYP.)
- WATERFRONT BUFFER (TYP.)
- NHDES REF LINE (TYP.)
- PROPERTY LINE (TYP.)
- SHORELINE (TYP.)

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OWNER:
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 100 CARL DRIVE
 UNIT #8
 MANCHESTER, NH. 03103

APPLICANT:
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REALTY, LLC
 c/o WIL GEORGES
 100 CARL DRIVE, 11a
 MANCHESTER, NH. 03103

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No.	DESCRIPTION	BY	DATE
1	MISCELLANEOUS BUILDING & PLAN NOTE UPDATES	DEE	12/22
REVISIONS			

GREENVILLE HOUSE PRC – OLD MILL REHABILITATION			
TOWN	GREENVILLE, NEW HAMPSHIRE	BRIDGE NO.	----
FEDERAL PROJECT	----	NHDOT PROJECT	N/A
LOCATION	TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1 OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH		
OVERALL EXISTING COND. & OFFSITE PARKING PLAN			
DESIGNED	SRP	BY DATE	10/22
DRAWN	JJM	CHECKED	DEE 11/22
TRACED		CHECKED	DEE 11/22
QUANTITIES		CHECKED	
REVIEWED BY:		NHDOT PROJ. NO.	NA
		EE PROJ. NO.	22-105
		DWG FILE	22-105_ENG
			EX-2

DOWNTOWN (D) DISTRICT: SITE DATA BLOCK			
DESCRIPTION	REQUIREMENT	EXISTING	PROPOSED
MAX. STORIES	2 1/2	2 1/2N/A	2 1/2
SIDE SETBACK	10'	38.84'±	38.84'
REAR SETBACK	10'	34.96'±	34.96'
FRONT SETBACK	NONE	N/A	N/A
MAX BLDG COVERAGE %	NONE	N/A	N/A
GREEN SPACE BELT WIDTH	NONE	N/A	N/A
MINIMUM GREEN SPACE	NONE	N/A	N/A
MINIMUM FRONTAGE ON TOWN SEWER LINE	35'	352.13'±	352.13'
MINIMUM FRONTAGE OFF TOWN SEWER LINE	N/A	N/A	N/A
MINIMUM AREA ON TOWN SEWER LINE	EXISTING	9,000 S.F.±	19,000 SF
MINIMUM AREA OFF TOWN SEWER LINE	N/A	N/A	N/A
GREENVILLE HOUSE PROCESS REHABILITATION CENTER (PRC)	9 DIRECT CARE STAFF 6 THERAPISTS 3 CASE MANAGERS 3 DIRECTORS 7 SUPPORT STAFF 28 SPACES	16 SPACES	12 ON-SITE SPACES 20 OFF-SITE SPACES 32 SPACES PROVIDED
PARKING REQUIREMENTS			

APPROVED BY THE GREENVILLE, NH PLANNING BOARD

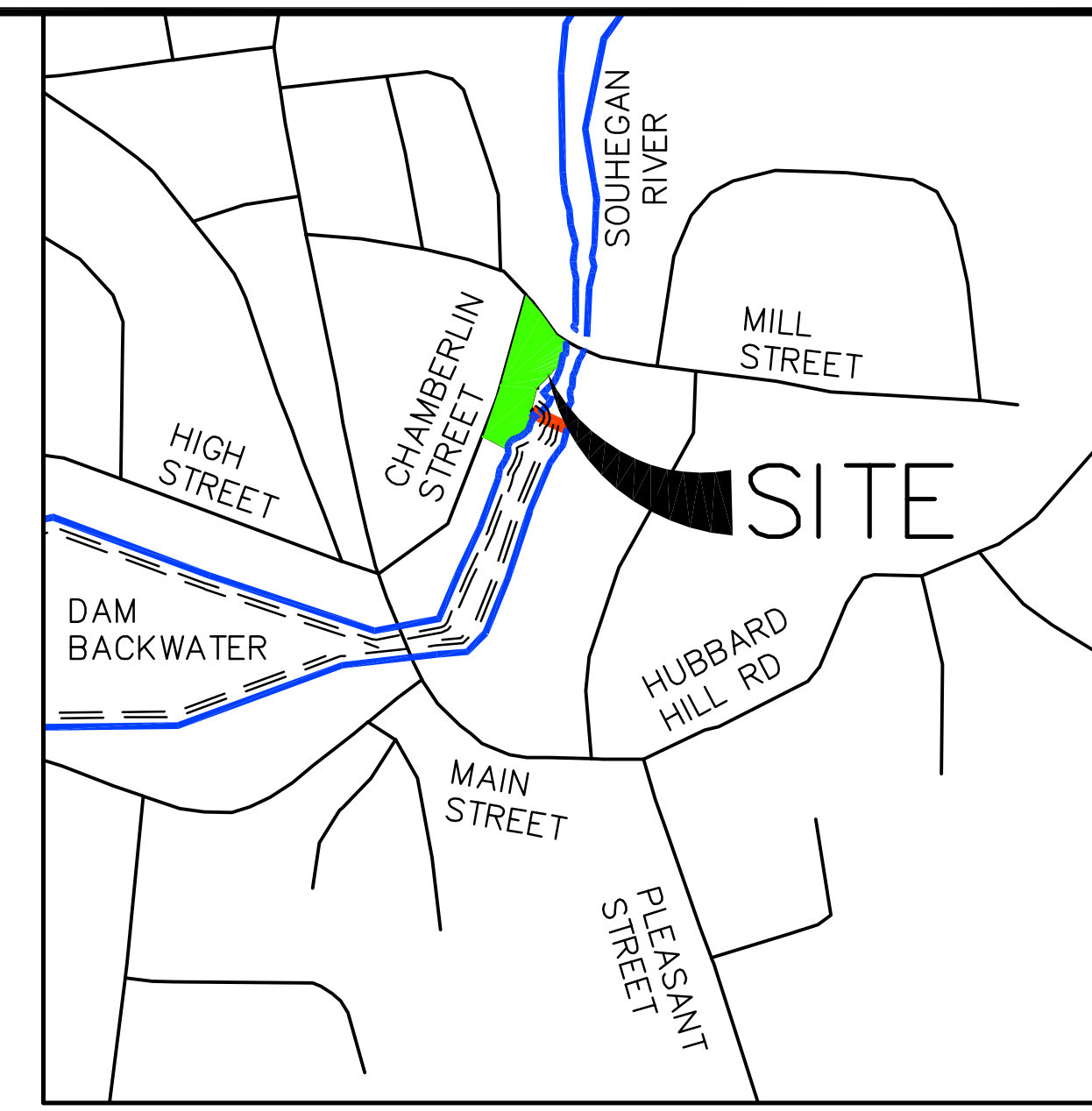
CHAIRMAN _____ DATE _____

MEMBER _____

MEMBER _____

MEMBER _____

MEMBER _____

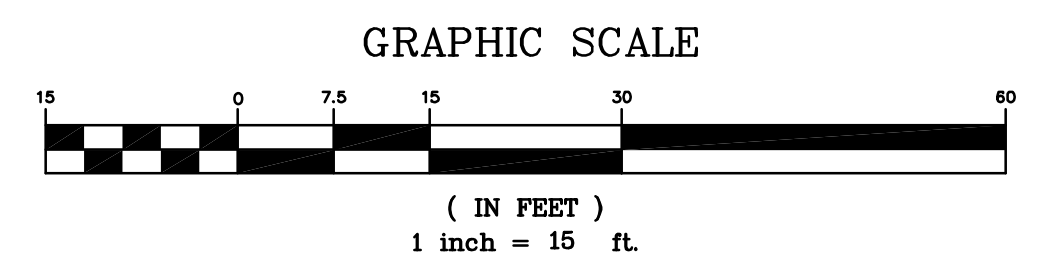
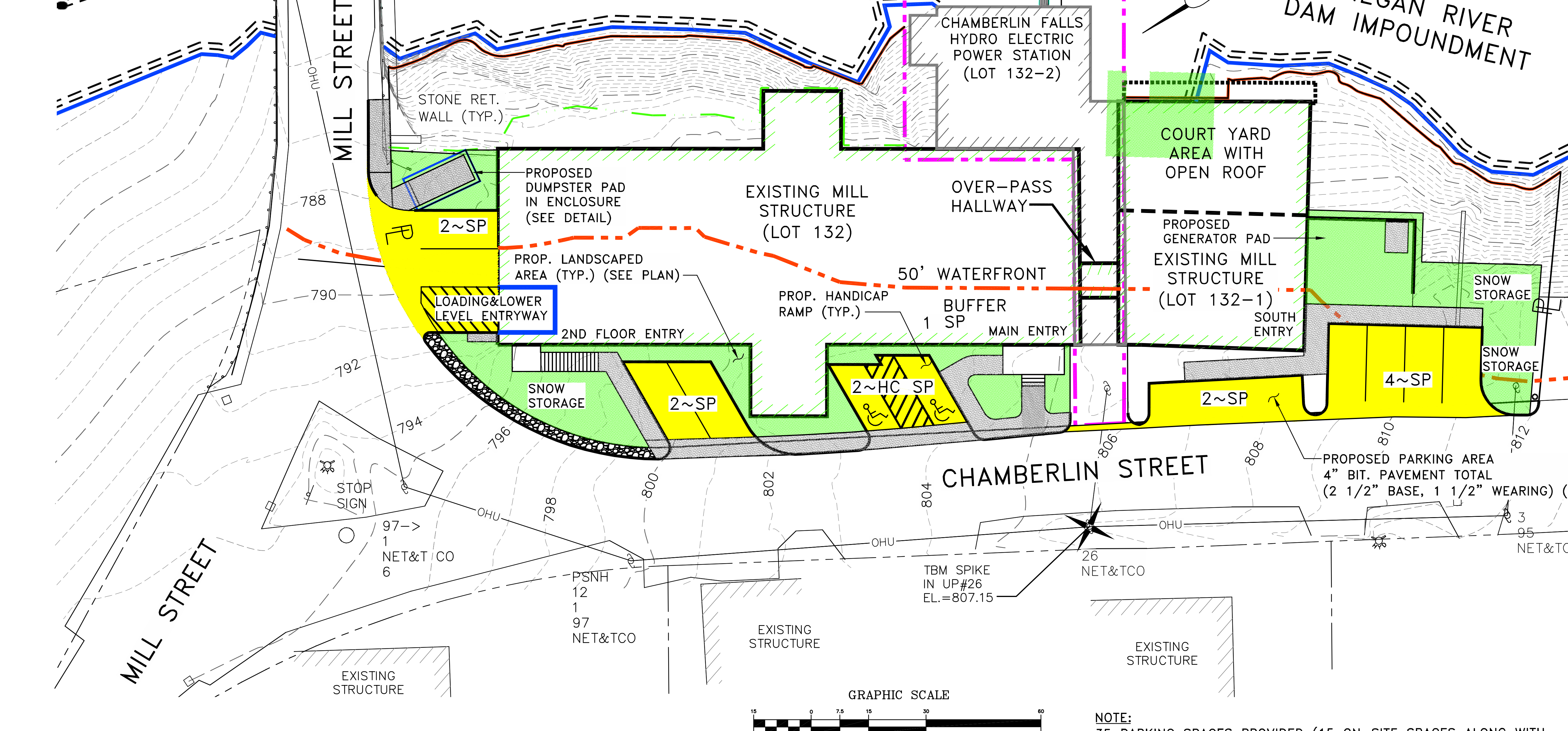


LOCUS (NTS)

- PROJECT & SITE NOTES:**
- PROJECT IS LOCATED WITHIN THE NHDES SHORELAND PROTECTION AREA AND AN NHDES PERMIT IS REQUIRED.
 - REHABILITATION WORK SHALL COMPLY WITH NH BUILDING CODES AS OUTLINED IN RSA 155-A:1 (IV) & 155-A:2.
 - REHABILITATION WORK SHALL COMPLY WITH NH FIRE CODE AS OUTLINED IN RSA 153-(LIFE SAFETY CODE 2009, SAF-c 6000 RULES & THE UNIFORM FIRE CODE NFPA1, 2009 EDITION).
- LAYOUT AND MATERIAL NOTES:**
- ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AND "THE AMERICAN WITH DISABILITIES ACT REQUIREMENTS", LATEST EDITIONS.
 - AREAS DISTURBED DURING CONSTRUCTION NOT RECEIVING IMPERVIOUS SURFACES (I.E. PAVEMENT, CONCRETE, BUILDINGS, ET.) SHALL RECEIVE A MINIMUM OF 4" OF LOAM AND SEED.
 - ALL HANDICAP PARKING SPACES, RAMPS, AND SIDEWALKS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE AMERICANS WITH DISABILITY ACT (ADA), STATE, AND LOCAL CODES (WHICHEVER IS MORE STRINGENT).

ABBREVIATION AND SYMBOL LEGEND

IPF ○	IRON PIPE FOUND
IRF ○	IRON ROD FOUND
IR(SET) ○	IRON TO BE SET
○	UTILITY POLE
□	DRAINAGE CATCH BASIN
⊛	FIRE HYDRANT (TYP.)
⊞	WATER VALVE (TYP.)
⊙	SEWER MANHOLE (TYP.)
OHU	OVERHEAD UTILITIES (TYP.)
---	EDGE OF GRAVEL
---	GUARD RAIL (TYP.)
---	STONE WALL (TYP.)
---	WATERFRONT BUFFER (TYP.)
---	NHDES REF LINE (TYP.)
---	PROPERTY LINE (TYP.)
---	SHORELINE (TYP.)



NOTE:
35 PARKING SPACES PROVIDED (15 ON-SITE SPACES ALONG WITH 20 OFF-SITE SPACES RESERVED BY AGREEMENT ON TAX MAP 6, LOT 52 WHICH IS 250- FEET FROM ENTRANCE TO BUILDING).

PLAN SIZE:
FULL SIZE PLANS ARE 24x36
11x17 ARE APPROXIMATE HALF SCALES

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OWNER:
MCKENAN PROPERTIES, LLC
100 CARL DRIVE
UNIT #8
MANCHESTER, NH. 03103

CLIENT:
GEORGES REALTY, LLC
c/o WIL GEORGES
100 CARL DRIVE, 11a
MANCHESTER, NH. 03103

ECKMAN Engineering, LLC
1950 Lafayette Road Unit 210, P.O. Box 8025
Portsmouth, New Hampshire 03802
Phone: (603) 433-1354
Fax: (603) 433-2367

No.	DESCRIPTION	BY	DATE
2	PER 12-7-22 PLANNING BOARD MTG COMMENTS	DEE	12/22
1	MISCELLANEOUS PARKING, PLAN & NOTE UPDATES	DEE	12/22

GREENVILLE HOUSE PRC -- OLD MILL REHABILITATION

TOWN GREENVILLE, NEW HAMPSHIRE BRIDGE NO. _____

FEDERAL PROJECT _____ NHDOT PROJECT N/A

LOCATION TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1
OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH






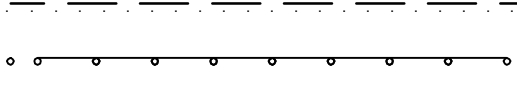



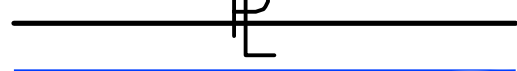
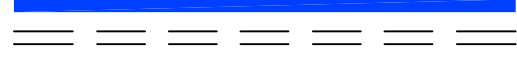
SITE LAYOUT PLAN

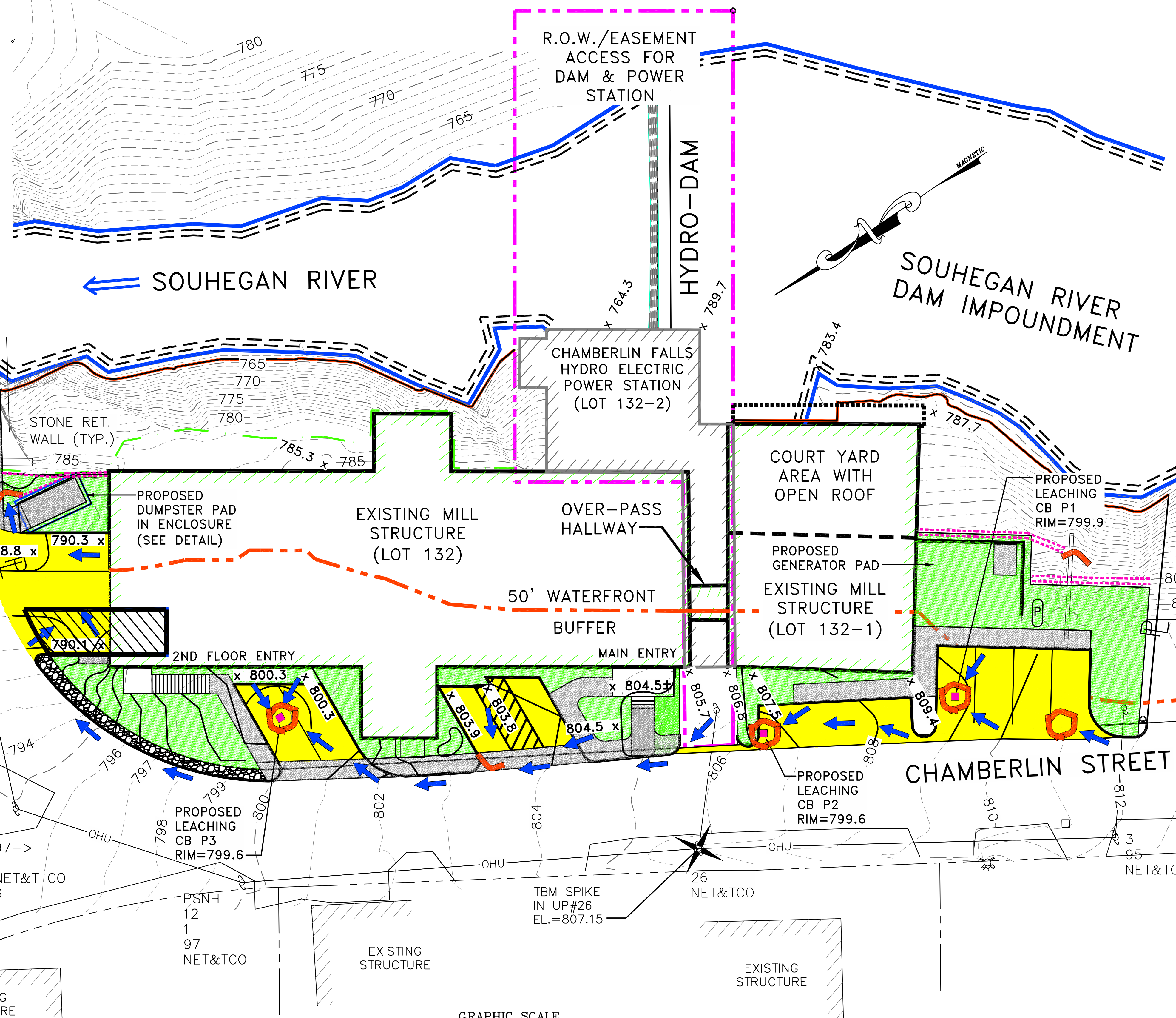
DESIGNED SRP	BY DATE 10/22	CHECKED DEE	BY DATE 11/22	EE PROJ. NO. 22-105
DRAWN JJM	10/22	CHECKED DEE	11/22	DWG FILE 22-105_ENG
TRACED		CHECKED		
QUANTITIES		CHECKED		

REVIEWED BY: _____ NHDOT PROJ. NO. NA

C-1

ABBREVIATION AND SYMBOL LEGEND

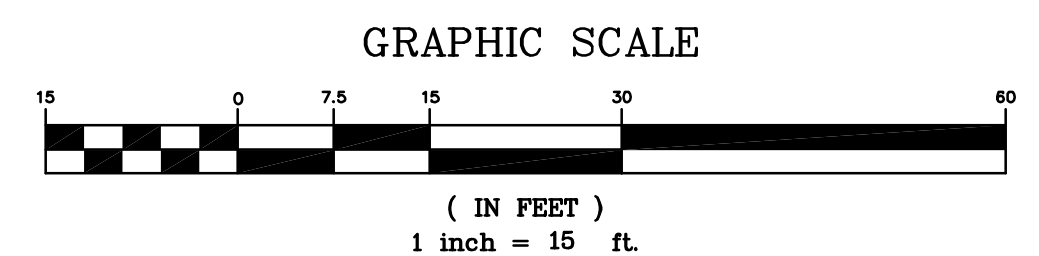
- 790.3 x PROPOSED SPOT ELEVATION (TYP.)
-  PROPOSED LEACHING CATCH BASIN
-  CRUSHED STONE INLET PROTECTION
-  DRAINAGE FLOW ARROWS
-  CRUSHED STONE CHECK DAMS
-  SILT FENCE OR SILT SOCK
-  EDGE OF GRAVEL GUARD RAIL (TYP.)
-  STONE WALL (TYP.)
-  WATERFRONT BUFFER (TYP.)
-  NHDES REF LINE (TYP.)
-  PROPERTY LINE (TYP.)
-  SHORELINE (TYP.)



- GRADING NOTES**
- 1.) LOW SPOTS CAUSING AREAS OF PONDING SHALL BE ELIMINATED AT TIME OF FINAL GRADING.
 - 2.) PROPOSED RIM/GRATE ELEVATIONS ARE APPROXIMATE FINAL ELEVATIONS, TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OF THE RIM ELEVATIONS AND VALVE COVERS TO FINISHED GRADE WITHIN LIMITS OF WORK.
 - 3.) PRIOR TO STARTING ANY OTHER WORK ON SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
 - 4.) THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, REGARDLESS IF SEDIMENTATION IS CAUSED BY WATER, WIND OR DIRECT DEPOSIT.
 - 5.) DUST SHALL BE CONTROLLED WITH WATER OR BY OTHER EFFECTIVE METHODS.
 - 6.) AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - A.) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - B.) A MINIMUM 85% VEGETATED GROWTH HAS OCCURRED;
 - C.) A MINIMUM 3" OF NON-EROSIVE MATERIAL SUCH AS RIP RAP OR STONE HAS BEEN INSTALLED; OR
 - D.) EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
 - 7.) THE CONTRACTOR SHALL PROVIDE TEMPORARY DIVERSION SWALES AND TEMPORARY SEDIMENTATION BASINS TO CONTROL SEDIMENTATION AND STORMWATER RUNOFF DURING THE CONSTRUCTION PERIOD, AND TO INSURE SURFACE WATER RUN-OFF FROM UNSTABILIZED AREAS DOES NOT CARRY SILT, SEDIMENT, AND DEBRIS OUTSIDE THE LIMITS OF WORK.
 - 8.) EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL SLOPES STEEPER THAN 3'-FT HORIZONTAL TO 1'-FT VERTICAL. EROSION CONTROL BLANKETS SHALL BE NORTH AMERICAN GREEN SC150RN, OR APPROVED EQUAL.
 - 9.) STABILIZATION MEASURES SHALL BE INSTALLED WITHIN 72-HOURS OF ACHIEVING FINAL GRADE.
 - 10.) PERMANENT SEEDING SHALL OCCUR BETWEEN APRIL 1 AND JUNE 1 AND/OR BETWEEN AUGUST 15 AND OCTOBER 15. ALL SEEDING AFTER AND INCLUDING OCTOBER 15 SHALL BE TEMPORARY SEED AND BE COVERED WITH HAY MULCH.
 - 11.) UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM THE ENTIRE DRAINAGE SYSTEM.

PLAN SIZE:
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 11x17 ARE APPROXIMATE HALF SCALES

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 NOT FOR CONSTRUCTION

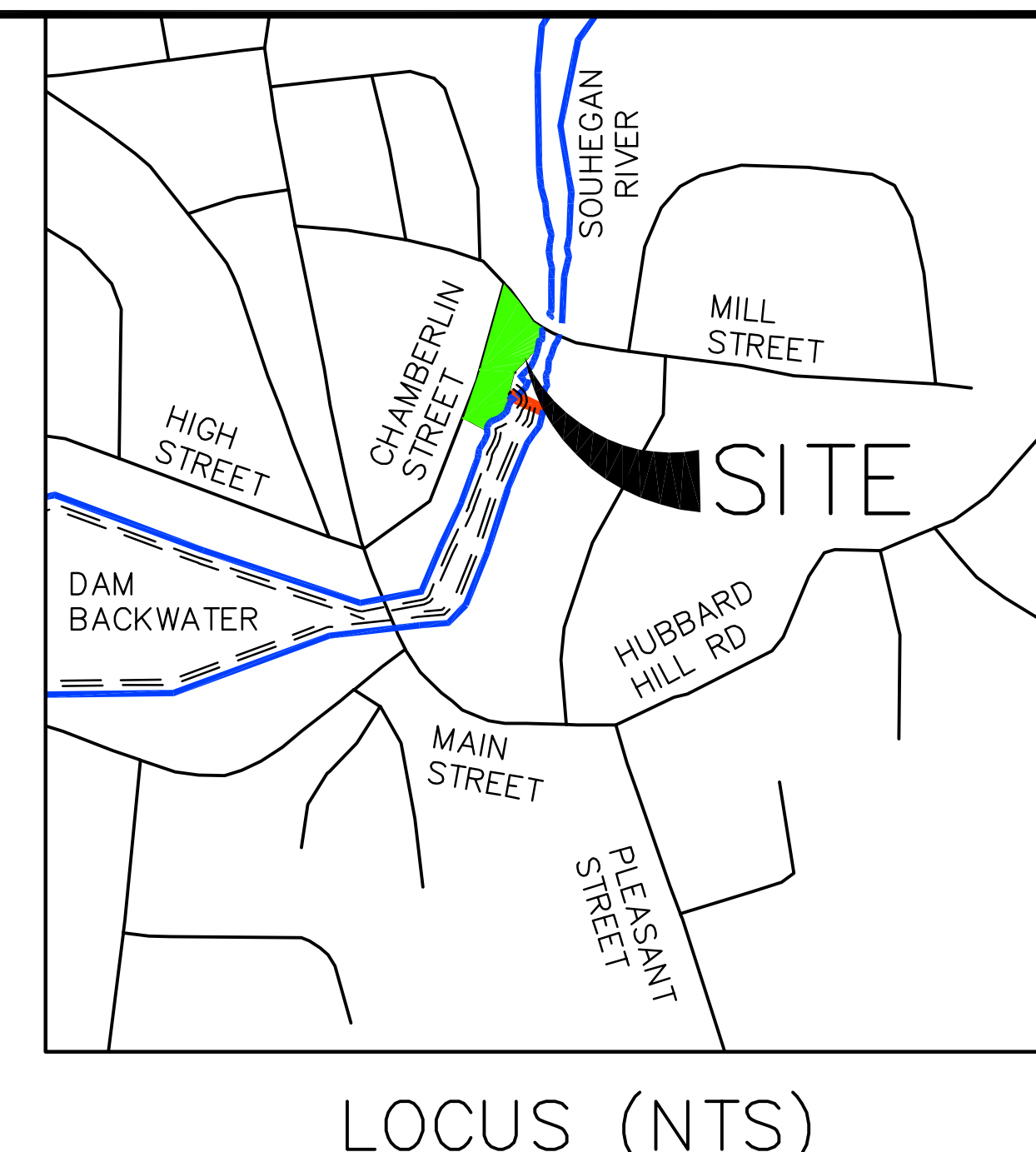
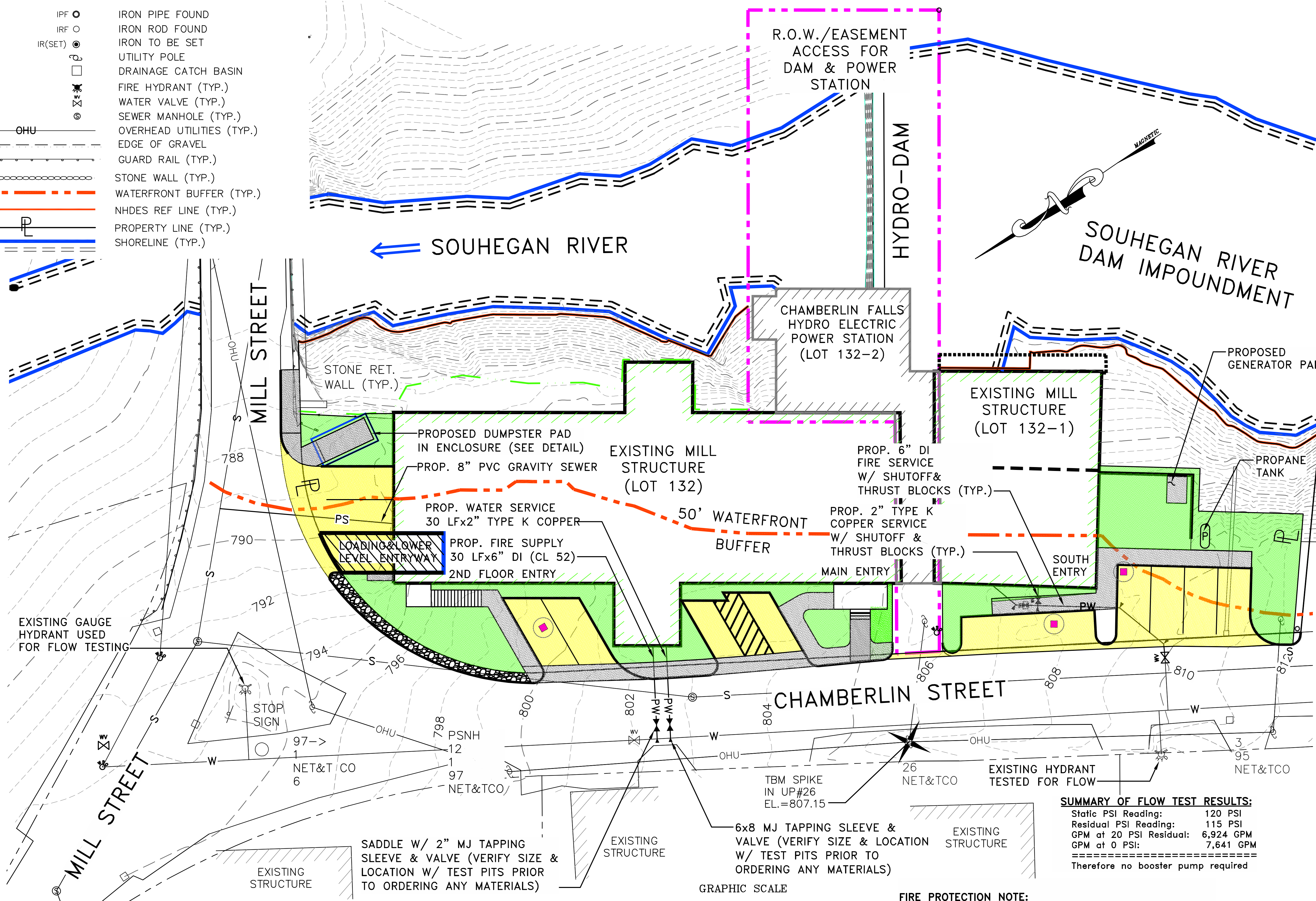


<p>OWNER: MCKENAN PROPERTIES, LLC 100 CARL DRIVE UNIT #8 MANCHESTER, NH. 03103</p>	<p>CLIENT: GEORGES REALTY, LLC c/o WIL GEORGES 100 CARL DRIVE, 11a MANCHESTER, NH. 03103</p>	<p>ECKMAN Engineering, LLC 1950 Lafayette Road Unit 210, P.O. Box 8025 Portsmouth, New Hampshire 03802 Phone: (603) 433-1354 Fax: (603) 433-2367</p>
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GREENVILLE HOUSE PRC -- OLD MILL REHABILITATION			
TOWN	GREENVILLE, NEW HAMPSHIRE	BRIDGE NO.	----
FEDERAL PROJECT	----	NHDOT PROJECT	N/A
LOCATION	TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1 OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH		
GRADING, DRAINAGE, EROS. & SED. CONTROL PLAN			
DESIGNED	SRP	BY DATE	10/22
DRAWN	JJM	CHECKED	DEE 11/22
TRACED		CHECKED	DEE 11/22
QUANTITIES		CHECKED	
REVIEWED BY:		NHDOT PROJ. NO.	NA
			C-2

ABBREVIATION AND SYMBOL LEGEND

- IPF ○ IRON PIPE FOUND
- IRF ○ IRON ROD FOUND
- IR(SET) ○ IRON TO BE SET
- UTILITY POLE
- DRAINAGE CATCH BASIN
- ⊗ FIRE HYDRANT (TYP.)
- ⊗ WATER VALVE (TYP.)
- ⊗ SEWER MANHOLE (TYP.)
- OHU OVERHEAD UTILITIES (TYP.)
- EDGE OF GRAVEL
- GUARD RAIL (TYP.)
- STONE WALL (TYP.)
- WATERFRONT BUFFER (TYP.)
- NHDES REF LINE (TYP.)
- PROPERTY LINE (TYP.)
- SHORELINE (TYP.)

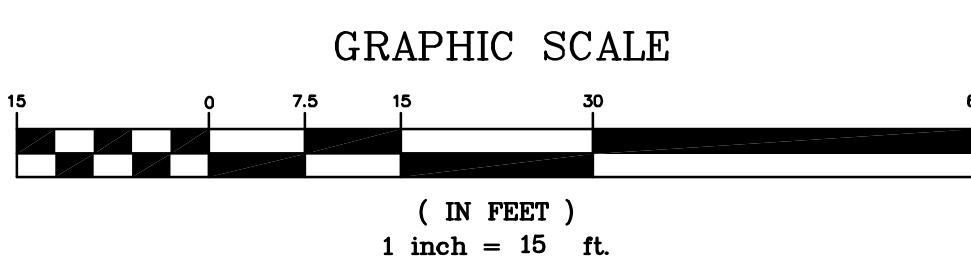


- UTILITY NOTES**
- 1.) CONTRACTOR SHALL COORDINATE ALL UTILITY PENETRATIONS (ELEVATIONS, LOCATIONS) AND UTILITY SIZES WITH ARCHITECTURAL PLANS AND LICENSED MEP CONTRACTORS OR PROJECT TEAM CONSULTANTS
 - 2.) THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND HAVE NOT BEEN FIELD VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MAY OCCUR BY THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES. ALL REPAIRS SHALL BE MADE AT THE CONTRACTORS EXPENSE.
 - 3.) THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-344-7233 AT LEAST 72 HOURS IN ADVANCE AND WAIT UNTIL ALL UTILITIES HAVE MARKED ON THE SITE PRIOR TO ANY EXCAVATION.
 - 4.) THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, INVERTS, AND TYPES OF EXISTING PIPES AT ALL PROPOSED POINTS OF CONNECTION PRIOR TO ORDERING MATERIALS. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK THE LOCATION, SIZE, MATERIAL AND ELEVATION OF THE UTILITY SHALL BE DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND FURNISHED TO OWNERS REPRESENTATIVES IN WRITING FOR THE RESOLUTION OF THE CONFLICT.
 - 5.) THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND BE RESPONSIBLE FOR PAYING ALL FEES FOR ANY ALTERATION, MOVEMENT, OR ADJUSTMENT OF GAS, ELECTRIC, TELECOMMUNICATIONS, CABLE TV, FIRE ALARM, WATER, SEWER OR ANY OTHER PUBLIC OR PRIVATE UTILITY.
 - 6.) ALL PROPOSED ONSITE UTILITIES SHALL BE UNDERGROUND EXCEPT POWER, INTERNET, FIRE ALARM & CABLE.
 - 7.) THE LOCATION, DEPTH, SIZE AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE ACCORDING TO THE REQUIREMENTS PROVIDED BY AND APPROVED BY, THE RESPECTIVE UTILITY (GAS, TELEPHONE, ELECTRIC AND FIRE ALARM) AND IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THIS INFORMATION PRIOR TO CONSTRUCTION.
 - 8.) UTILITY MATERIALS SHALL BE, UNLESS OTHERWISE NOTED:
 - A) SEWER: GRAVITY SEWER (8" SCH. 40) POLYVINYL CHLORIDE (PVC)
 - B) WATER:
 - ==>FIRE-6" CLASS 52 DUCTILE IRON (ANSI/AWWA C151/A21.51) WITH DUCTILE IRON FITTINGS (ANSI/AWWA C110/A21.10)
 - ==>FACILITY SERVICE-2" 200PSI (MUNICIPEX SDR9) (ASTMF876).

SUMMARY OF FLOW TEST RESULTS:

Static PSI Reading:	120 PSI
Residual PSI Reading:	115 PSI
GPM at 20 PSI Residual:	6,924 GPM
GPM at 0 PSI:	7,641 GPM
Therefore no booster pump required	

FIRE PROTECTION NOTE:
 Greenville House PRC proposes a sprinkler system that is fully compliant with NH Fire Code which per RSA 153 must adhere to: Life Safety Code 2009, Saf-C 6000 Rules & the Uniform Fire Code NFPA1, 2009 edition and potentially other municipal code where in all cases the most stringent code shall apply.



PLAN SIZE:
 FULL SIZE PLANS ARE 24x36
 11x17 ARE APPROXIMATE HALF SCALES

FOR APPROVAL ONLY
 NOT FOR CONSTRUCTION

OWNER:
MCKENAN PROPERTIES, LLC
 100 CARL DRIVE
 UNIT #8
 MANCHESTER, NH. 03103

CLIENT:
GEORGES REALTY, LLC
 c/o WIL GEORGES
 100 CARL DRIVE, 11a
 MANCHESTER, NH. 03103

ECKMAN Engineering, LLC
 1950 Lafayette Road Unit 210, PO Box 8025
 Portsmouth, New Hampshire 03802
 Phone: (603) 433-1354
 Fax: (603) 433-2367

No.	DESCRIPTION	BY	DATE
1	MISCELLANEOUS PARKING, PLAN & NOTE UPDATES	DEE	12/22
REVISIONS			

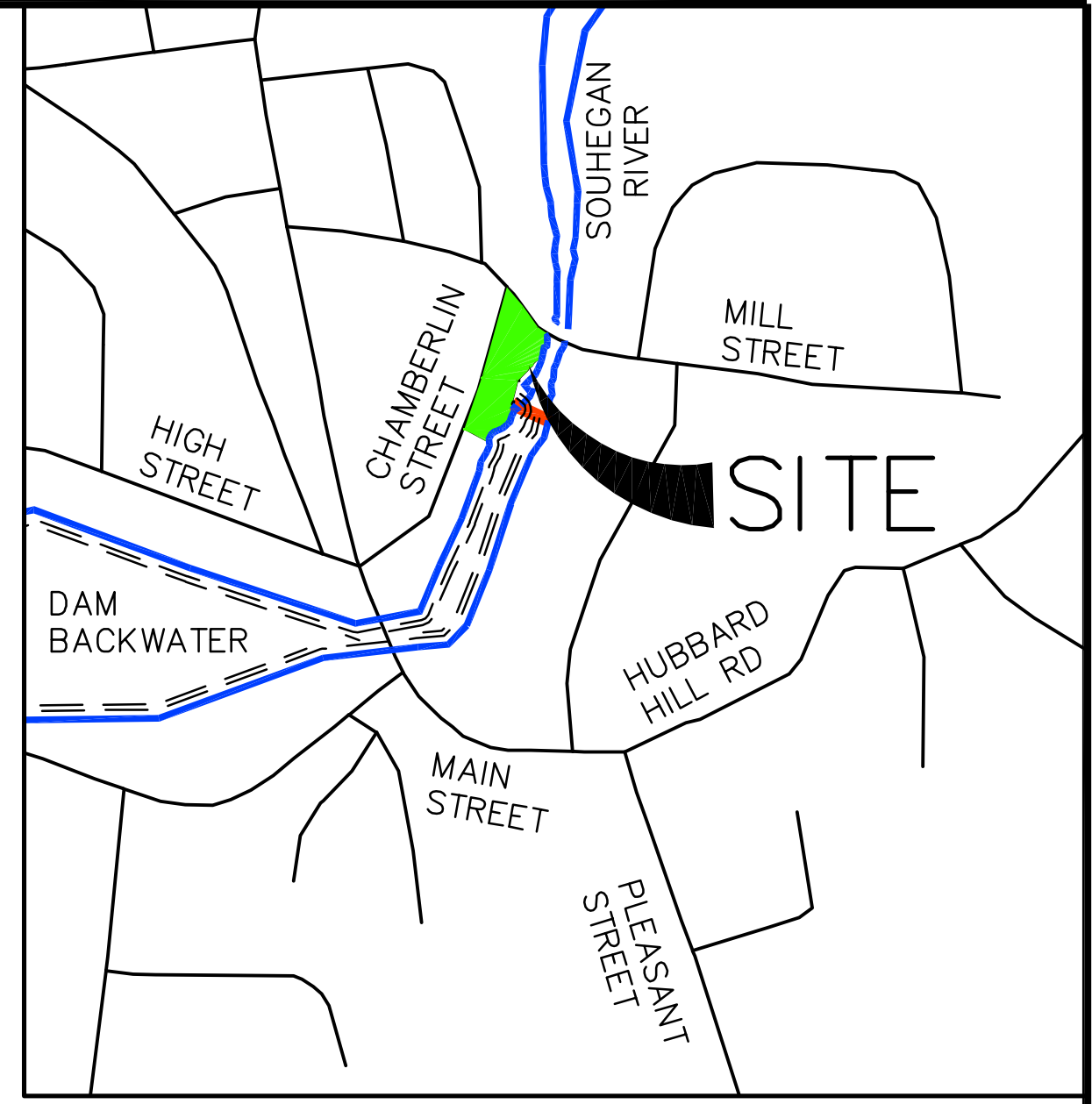
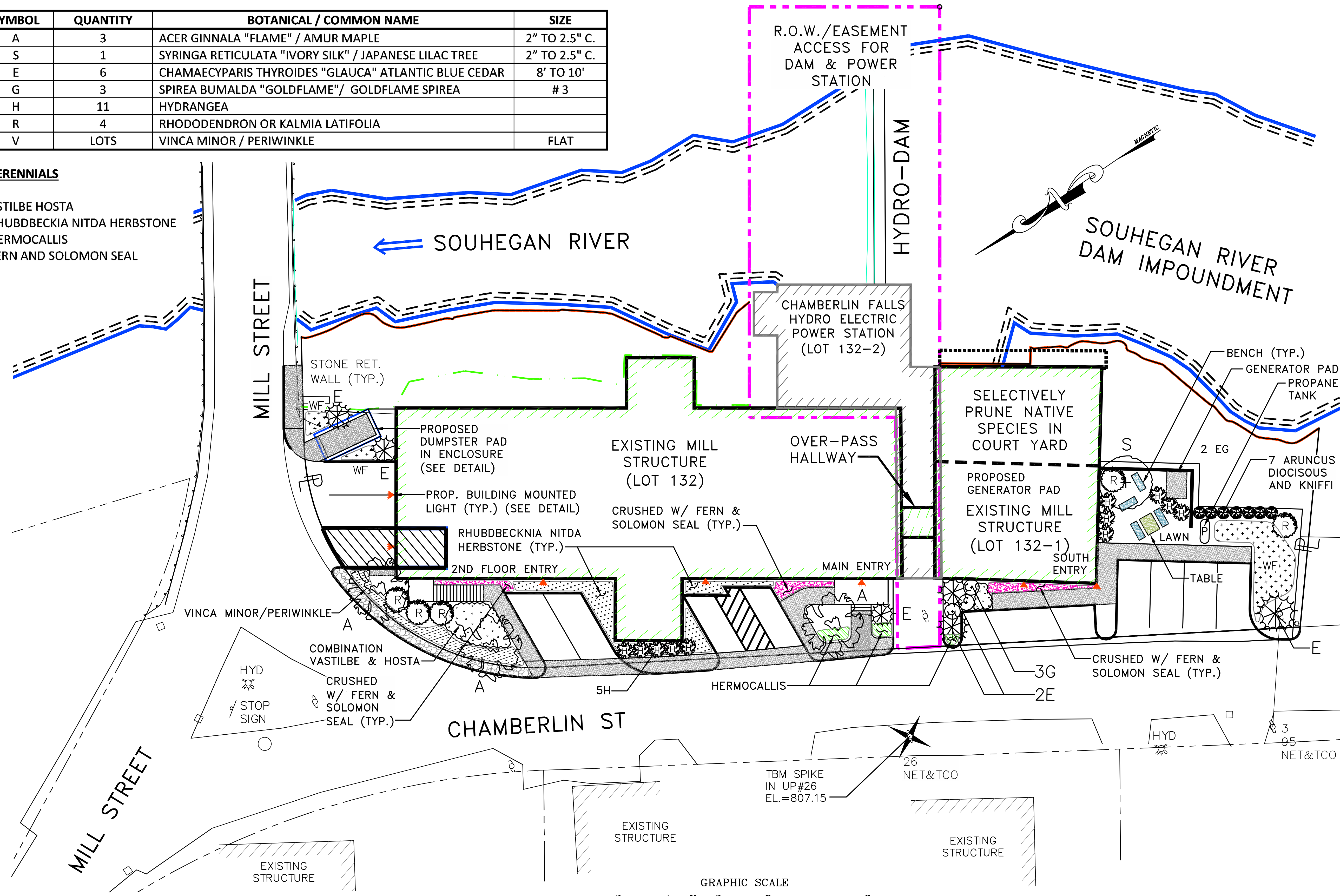
GREENVILLE HOUSE PRC — OLD MILL REHABILITATION			
TOWN	GREENVILLE, NEW HAMPSHIRE	BRIDGE NO.	----
FEDERAL PROJECT	----	NHDOT PROJECT	N/A
LOCATION	TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1 OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH		
UTILITY PLAN			
DESIGNED	SRP	BY DATE	10/22
DRAWN	JJM	CHECKED	DEE 11/22
TRACED		CHECKED	DEE 11/22
QUANTITIES		CHECKED	
REVIEWED BY:		NHDOT PROJ. NO.	NA
		EE PROJ. NO.	22-105
		DWG FILE	22-105_ENG
			C-3

PLANTING SCHEDULE

SYMBOL	QUANTITY	BOTANICAL / COMMON NAME	SIZE
A	3	ACER GINNALA "FLAME" / AMUR MAPLE	2" TO 2.5" C.
S	1	SYRINGA RETICULATA "IVORY SILK" / JAPANESE LILAC TREE	2" TO 2.5" C.
E	6	CHAMAECYPARIS THYROIDES "GLAUCA" ATLANTIC BLUE CEDAR	8' TO 10'
G	3	SPIREA BUMALDA "GOLDFLAME" / GOLDFLAME SPIREA	# 3
H	11	HYDRANGEA	
R	4	RHODODENDRON OR KALMIA LATIFOLIA	
V	LOTS	VINCA MINOR / PERIWINKLE	FLAT

PERENNIALS

ASTILBE HOSTA
RHUBDBECKIA NITDA HERBSTONE
HERMOCALLIS
FERN AND SOLOMON SEAL



LOCUS (NTS)

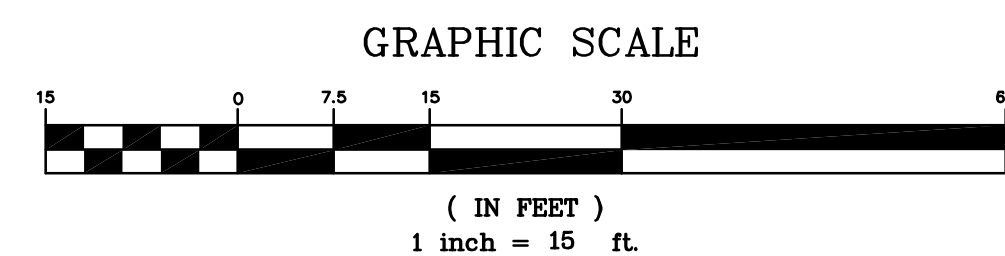
- PLANTING NOTES:**
- 1.) AREAS DISTURBED DURING CONSTRUCTION NOT RECEIVING IMPERVIOUS SURFACES (I.E. PAVEMENT, CONCRETE, BUILDINGS, ET.) SHALL RECEIVE A MINIMUM OF 4" OF LOAM AND SEED.
 2. CONTRACTOR TO REMOVE ALL DEBRIS GENERATED BY PLANT INSTALLATION. DEBRIS TO BE DISPOSED OF IN A LEGAL MANNER.
 3. ALL PLANT MATERIAL SHALL BE GUARANTEED TO BE IN GOOD, HEALTHY & FLOURISHING CONDITION FOR ONE YEAR FROM THE DATE OF FINAL INSTALLATION APPROVAL BY L.A. CONTRACTOR SHALL REPLACE, WITHOUT COST TO OWNER, AND AS SOON AS WEATHER CONDITIONS PERMIT, ALL DEAD AND NON-FLOURISHING PLANTS AS DETERMINED BY THE L.A. REPLACEMENT PLANTS SHALL BE GUARANTEED IDENTICALLY TO ORIGINAL PLANTS, TIME PERIOD COMMENCING FROM DATE OF REPLACEMENT PLANTING APPROVAL BY L.A.
 4. ALL BEDS TO BE MULCHED WITH 4" DEPTH SHREDDED BARK MULCH UNLESS NOTED OTHERWISE.
 5. CONTRACTOR TO PROVIDE NECESSARY TEMPORARY IRRIGATION IF NEEDED BASED ON TIME OF YEAR THE PROJECT IS IMPLEMENTED.
 6. SEE SHEET C-4 FOR LAYOUT OF PLANT MATERIAL.

ABBREVIATION AND SYMBOL LEGEND

IPF ○	IRON PIPE FOUND
IRF ○	IRON ROD FOUND
IR(SET) ○	IRON TO BE SET
□	UTILITY POLE
□	DRAINAGE CATCH BASIN
⊕	FIRE HYDRANT (TYP.)
⊕	WATER VALVE (TYP.)
⊕	SEWER MANHOLE (TYP.)
— OHU —	OVERHEAD UTILITIES (TYP.)
—	EDGE OF GRAVEL
—	GUARD RAIL (TYP.)
—	STONE WALL (TYP.)
—	WATERFRONT BUFFER (TYP.)
—	NHDES REF LINE (TYP.)
—	PROPERTY LINE (TYP.)
—	SHORELINE (TYP.)

PLAN SIZE:
FULL SIZE PLANS ARE 24x36
11x17 ARE APPROXIMATE HALF SCALES

**FOR APPROVAL ONLY
NOT FOR CONSTRUCTION**



SEED MIXES:
GRASS: EZ GREEN BY BLUE SEAL OR EQUAL.
WF: NORTHEAST WILDFLOWER MIX BY EARNS T SEED COMPANY OR EQUAL

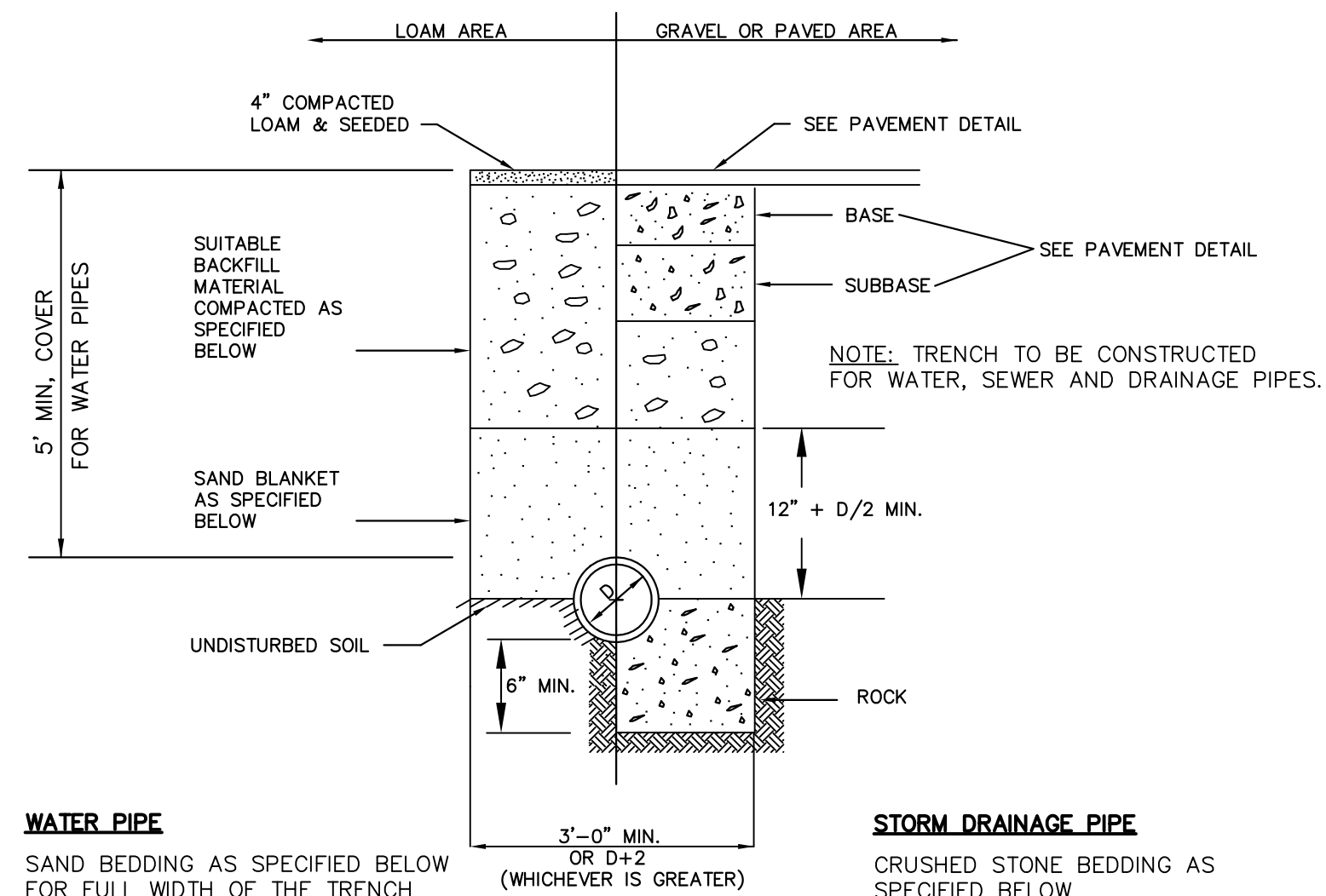
OWNER:
**MCKENAN
PROPERTIES, LLC**
100 CARL DRIVE
UNIT #8
MANCHESTER, NH. 03103

CLIENT:
**GEORGES
REALTY, LLC**
c/o WIL GEORGES
100 CARL DRIVE, 11a
MANCHESTER, NH. 03103

**ECKMAN
Engineering, LLC**
1950 Lafayette Road Unit 210, P.O. Box 8025
Portsmouth, New Hampshire 03802
Phone: (603) 433-1354
Fax: (603) 433-2367

No.	DESCRIPTION	BY	DATE
1	PER 12-7-22 PLANNING BOARD MTG COMMENTS	DEE	12/22
	REVISIONS		

GREENVILLE HOUSE PRC -- OLD MILL REHABILITATION			
TOWN	GREENVILLE, NEW HAMPSHIRE	BRIDGE NO.	----
FEDERAL PROJECT	----	NHDOT PROJECT	N/A
LOCATION	TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1 OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH		
LANDSCAPING & LIGHTING PLAN			
DESIGNED	SRP	BY DATE	10/22
DRAWN	JJM	CHECKED	DEE 11/22
TRACED		CHECKED	DEE 11/22
QUANTITIES		CHECKED	
REVIEWED BY:		NHDOT PROJ. NO.	NA
		EE PROJ. NO.	22-105
		DWG FILE	22-105_ENG
			C-4



WATER PIPE

SAND BEDDING AS SPECIFIED BELOW FOR FULL WIDTH OF THE TRENCH UP TO SPRINGLINE OF PIPE, 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK

STORM DRAINAGE PIPE

CRUSHED STONE BEDDING AS SPECIFIED BELOW FOR FULL WIDTH OF THE TRENCH UP TO SPRINGLINE OF PIPE, 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK

BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACKFILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C.

SAND BLANKET & BEDDING

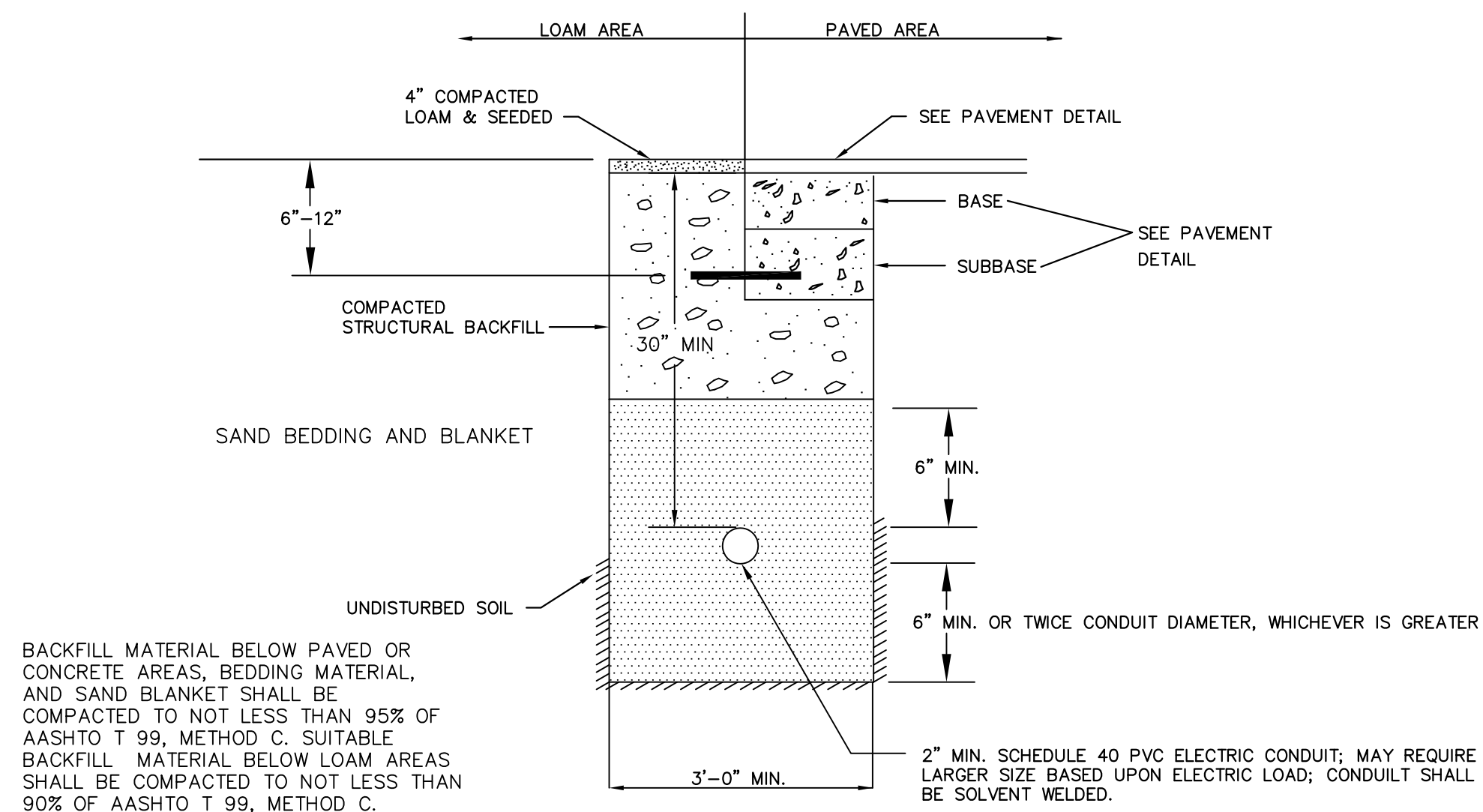
SIEVE SIZE	% FINER BY WEIGHT
1/2"	90 - 100
200	0 - 15

CRUSHED STONE BEDDING

SIEVE SIZE	% FINER BY WEIGHT
1"	100
3/4"	90 - 100
3/8"	0 - 75
# 4	0 - 25
# 10	0 - 5

UTILITY TRENCH

NOT TO SCALE



BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACKFILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C.

SAND BEDDING

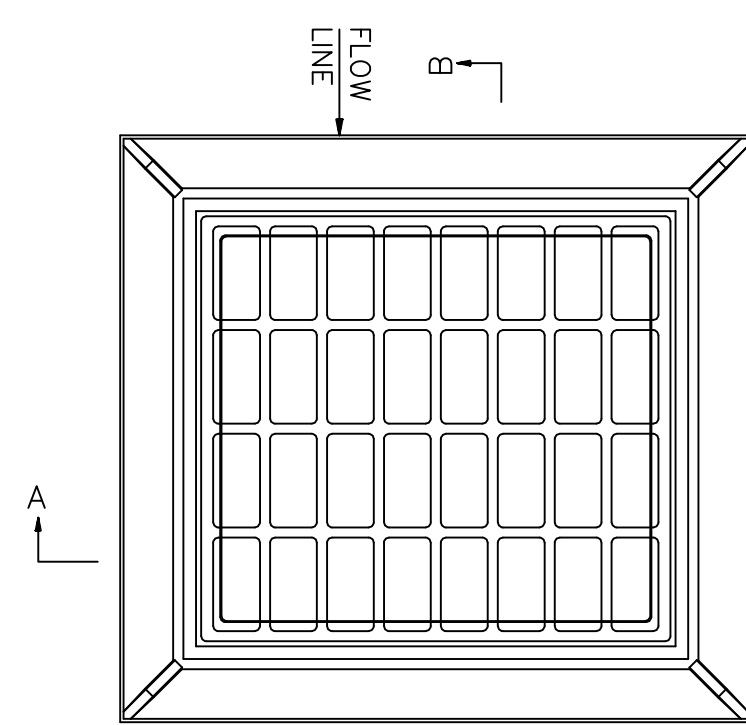
SIEVE	% PASSING
1 INCH	95-100
1/2 INCH	75-100
NO. 4	50-100
NO. 20	15-80
NO. 50	0-15
NO. 200	0-5

STRUCTURAL BACKFILL

SIEVE	% PASSING
4 INCH	100
3 INCH	95-100
1/4 INCH	25-80
NO. 40	0-30
NO. 200	0-5

ELECTRIC, CABLE, INTER-NET, PHONE & FIRE CONDUITS

NOT TO SCALE

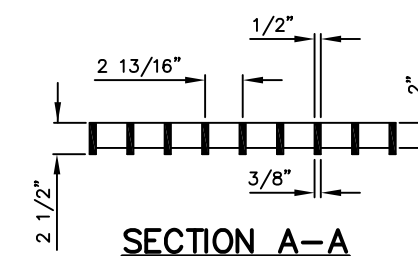


PLAN
TYPE "B" FRAME & GRATE

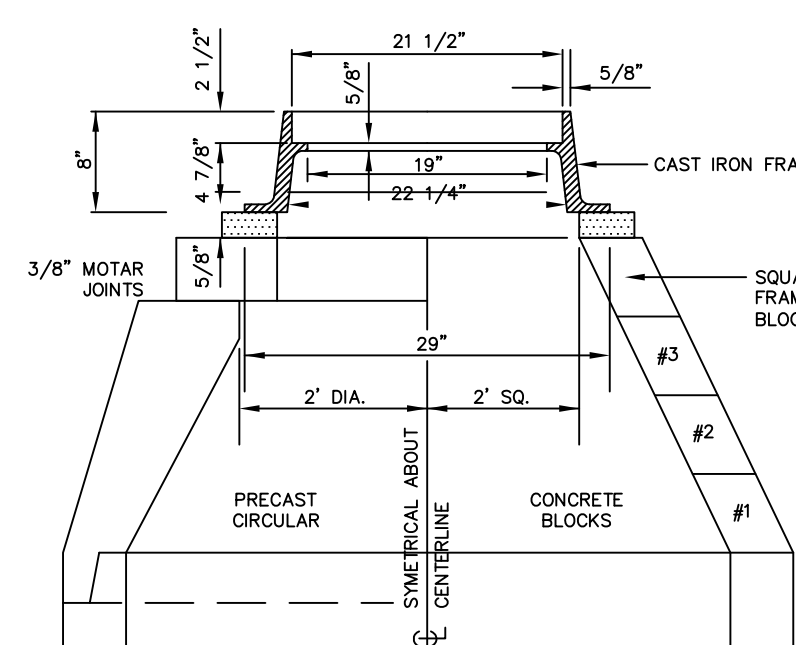
GENERAL NOTES

1. ALL DIMENSIONS ARE NOMINAL.
2. FRAME AVAILABLE IN 100 OR 200 mm HEIGHTS.
3. FREE OPEN AREA = 0.22 m².
4. USE 3-FLANGE FRAME IF INSTALLED ADJACENT TO GRANITE CURB.
5. FRAME AND GRATE SHALL BE PER NHDOT SPECIFICATIONS.

NOTE:
1. TYPE "B" GRATE USED IN PAVEMENT.
2. REFER TO NHDOT STANDARD HIGHWAY DETAILS FOR DIMENSIONS OF THE GRATES TO THE LEFT.



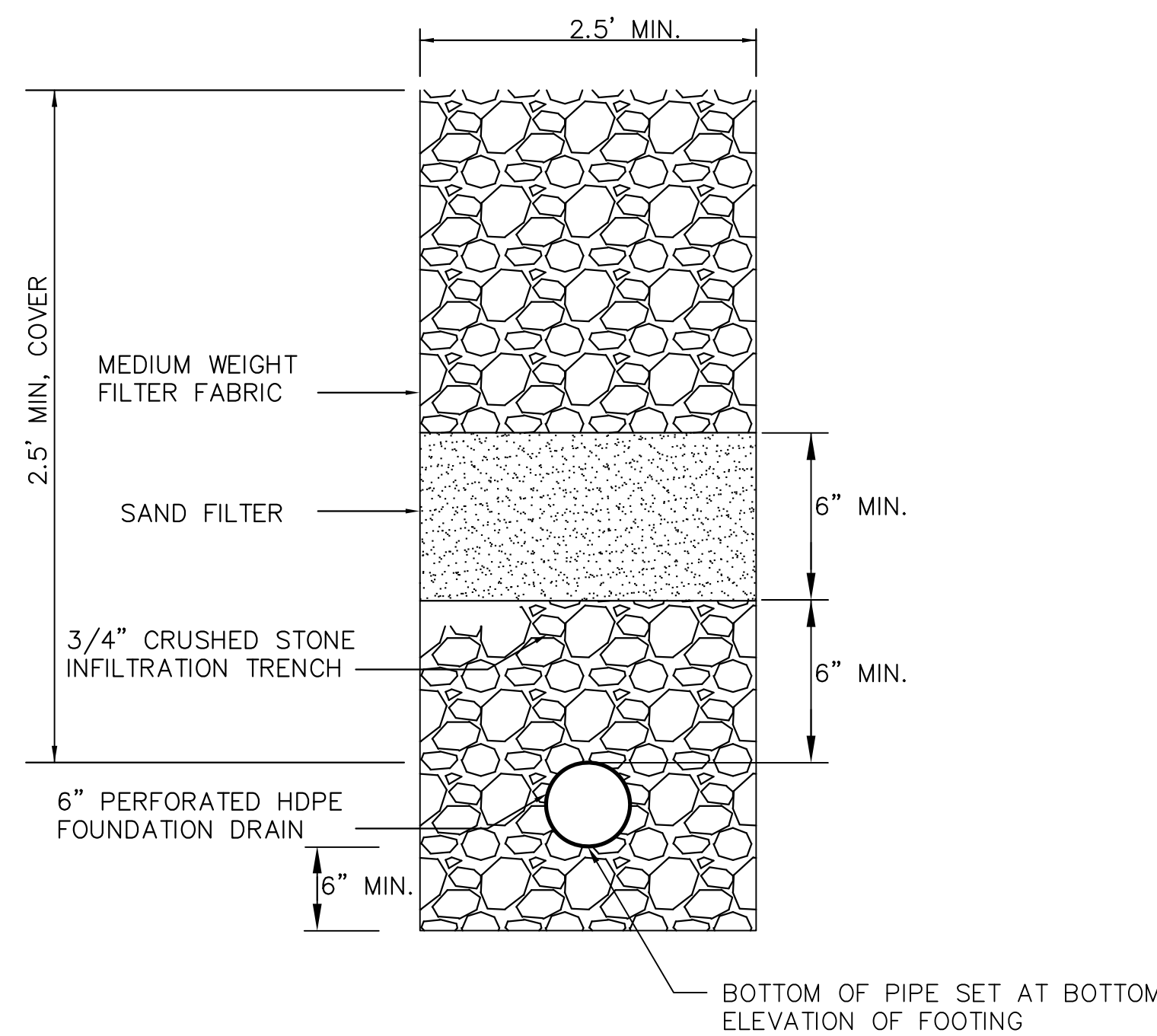
SECTION A-A



SECTION B-B
GRATE & FRAME DETAIL

CATCH BASIN FRAME & GRATE

(NOT TO SCALE)

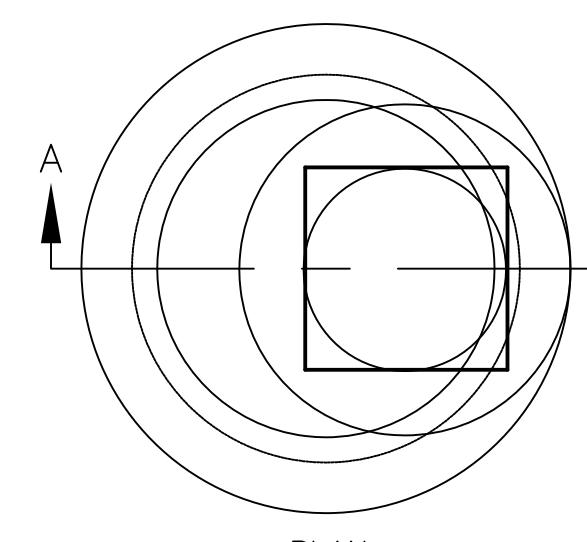


CRUSHED STONE FILL

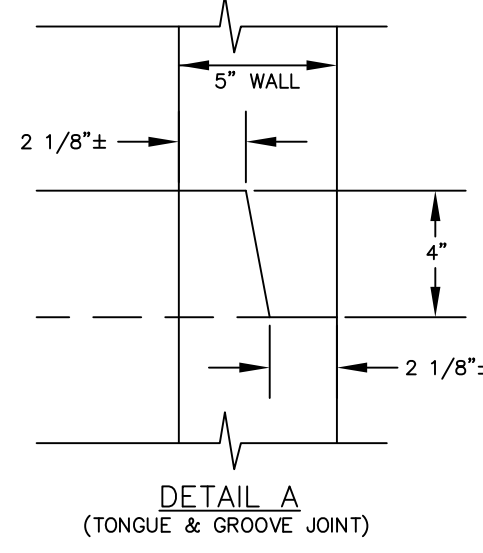
SIEVE SIZE	% FINER BY WEIGHT
1"	100
3/4"	90 - 100
3/8"	0 - 75
# 4	0 - 25
# 10	0 - 5

STORMWATER INFILTRATION TRENCH

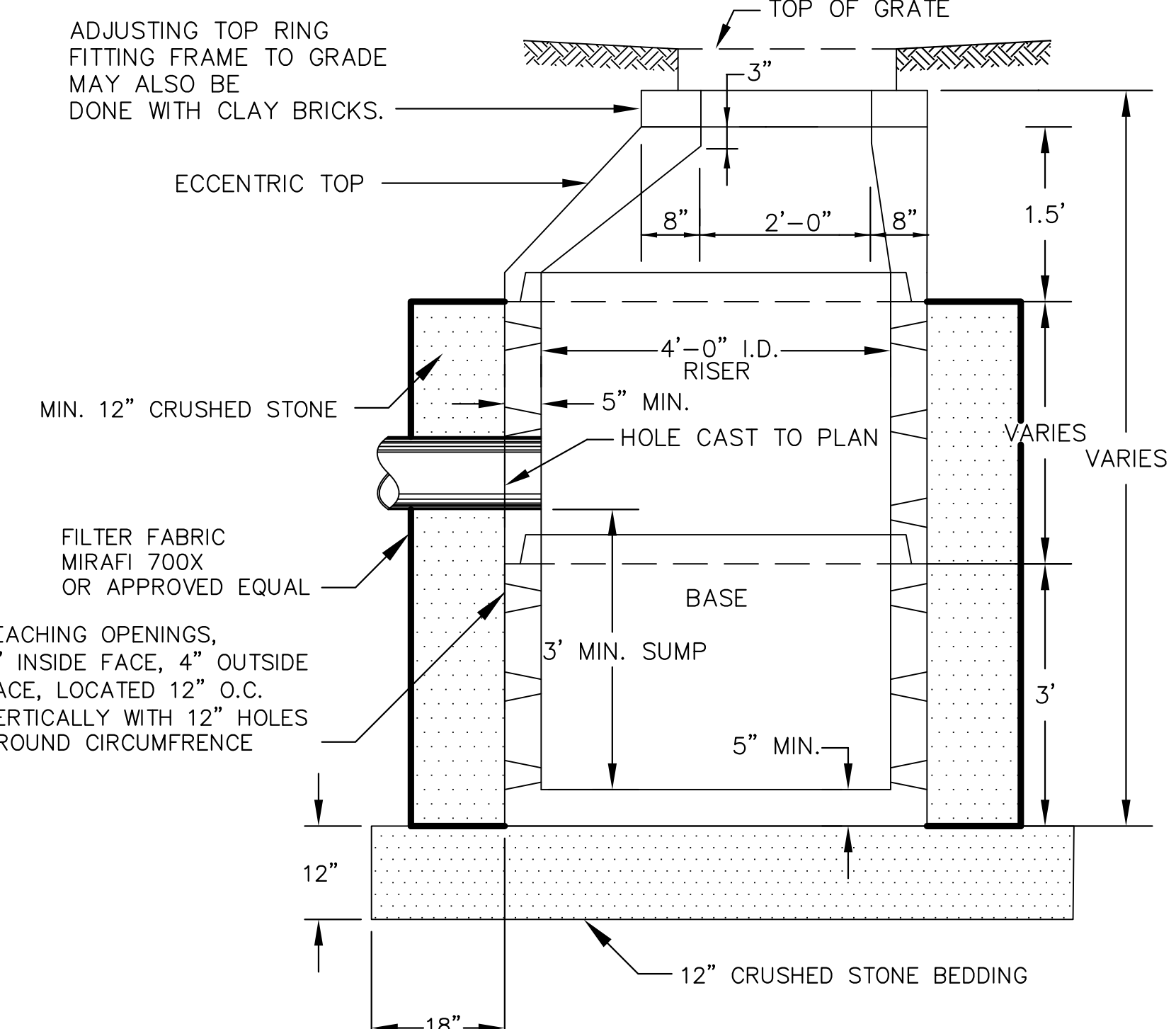
NOT TO SCALE



PLAN



DETAIL A
(TONGUE & GROOVE JOINT)



4' DIAMETER LEACHING CATCH BASIN

NOT TO SCALE

FOR APPROVAL ONLY
NOT FOR CONSTRUCTION

PLAN SIZE:
FULL SIZE PLANS ARE 24x36
11x17 ARE APPROXIMATE HALF SCALES

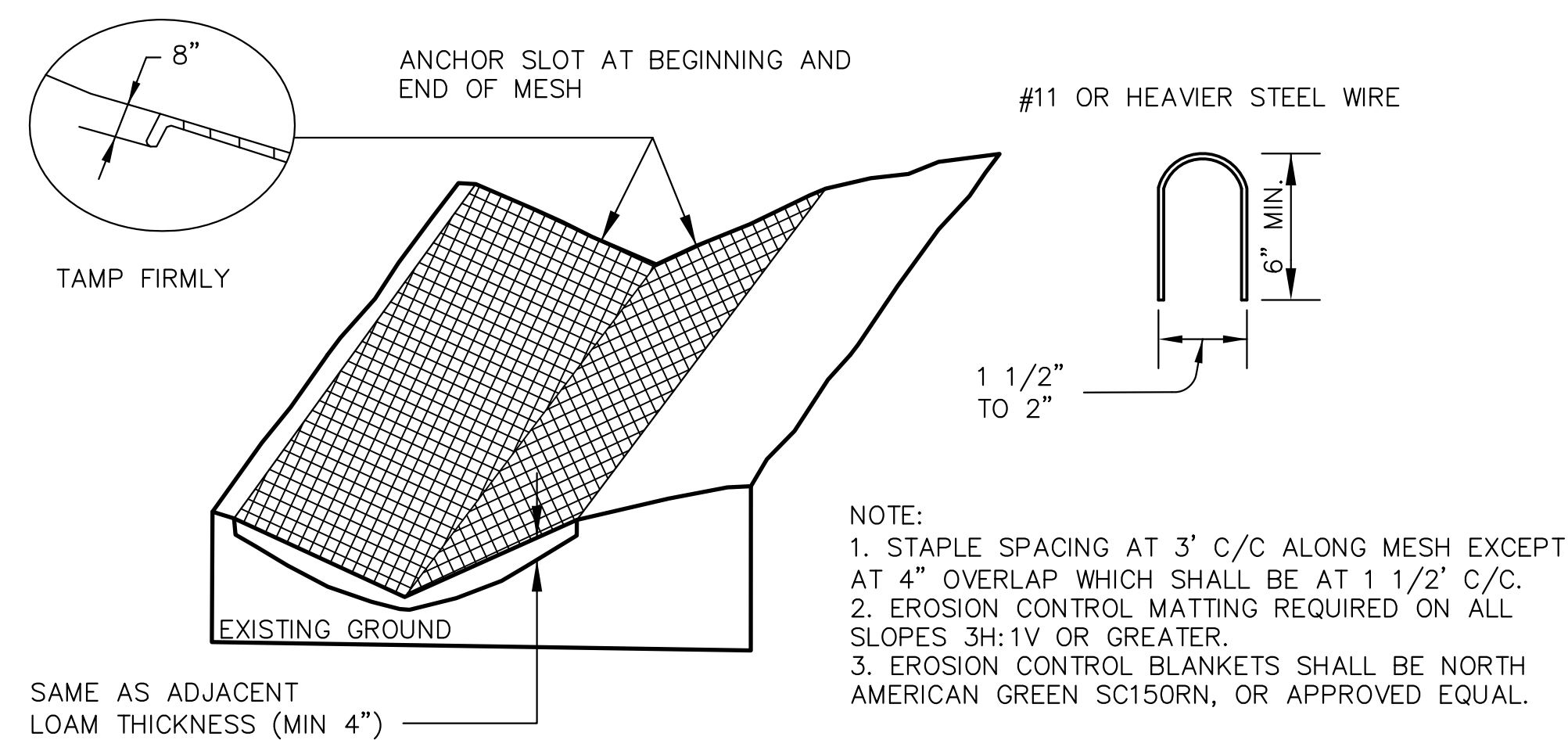
OWNER:
MCKENAN
PROPERTIES, LLC
100 CARL DRIVE
UNIT #8
MANCHESTER, NH. 03103

APPLICANT:
GEORGES
REALTY, LLC
c/o WIL GEORGES
100 CARL DRIVE, 11a
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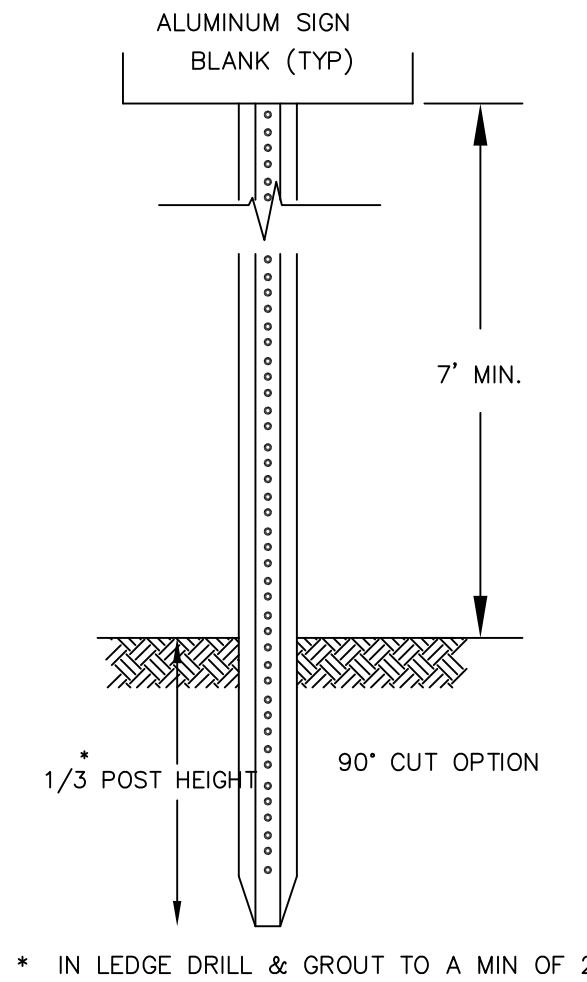
ECKMAN
Engineering, LLC
1950 Lafayette Road Unit 210, PO Box 8025
Portsmouth, New Hampshire 03802
Phone: (603) 433-1354
Fax: (603) 433-2367

No.	DESCRIPTION	BY	DATE
1	ADD 4' DIA. LEACHING CATCH BASIN DETAIL	DEE	12/22

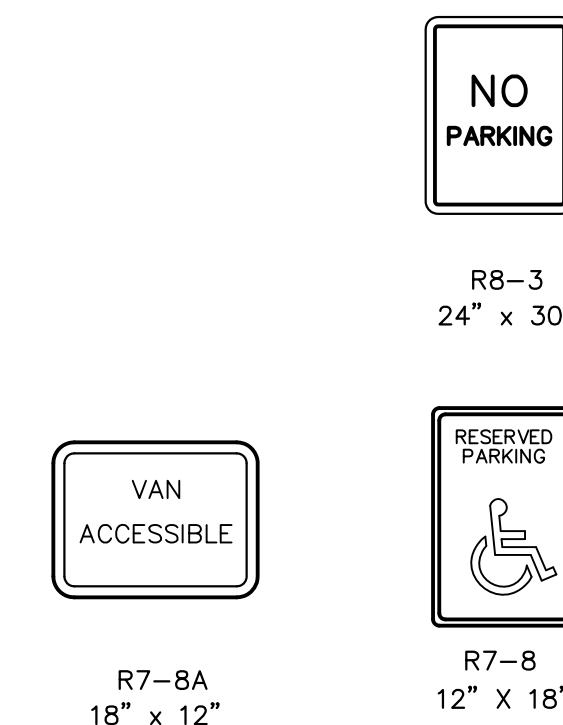
TOWN	GREENVILLE, NEW HAMPSHIRE	BRIDGE NO.	----
FEDERAL PROJECT	----	NHDOT PROJECT	N/A
LOCATION	TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1 OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH		
DETAILS (DRAINAGE & UTILITIES)			
DESIGNED	SRP	DATE	10/22
DRAWN	JJM	DATE	10/22
TRACED		DATE	
QUANTITIES		DATE	
REVIEWED BY:		NHDOT PROJ. NO.	NA
			D-2



EROSION CONTROL MATTING
NOT TO SCALE

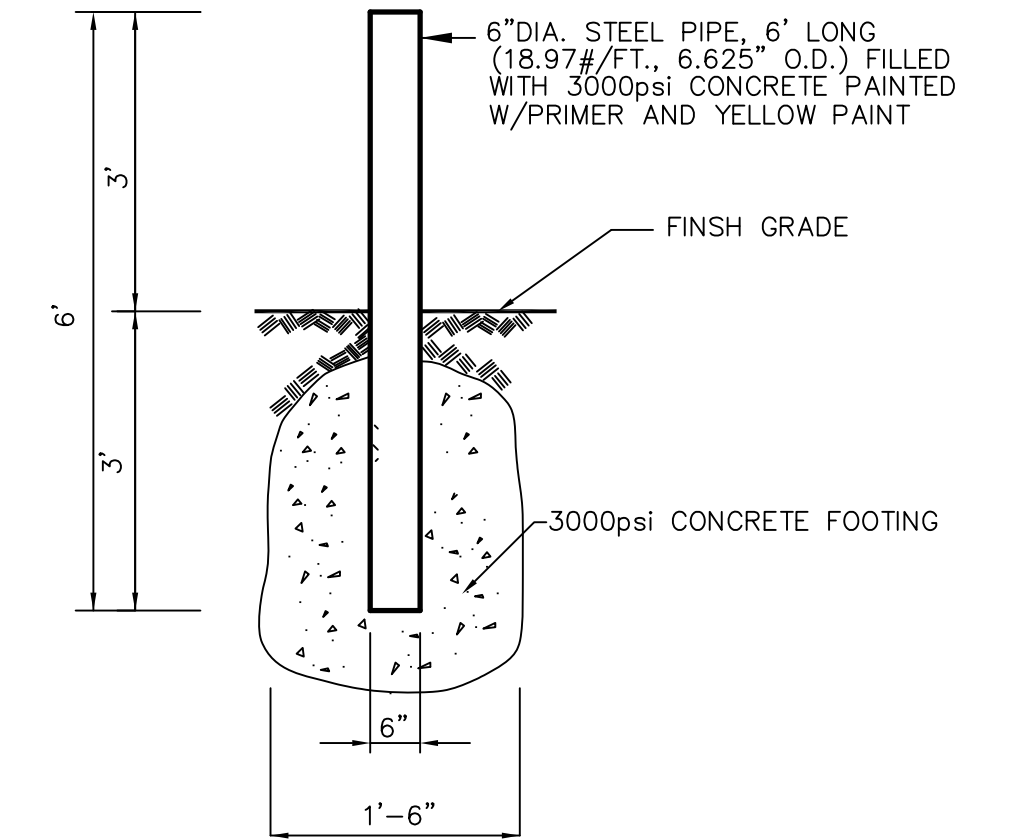


STANDARD POST
NOT TO SCALE



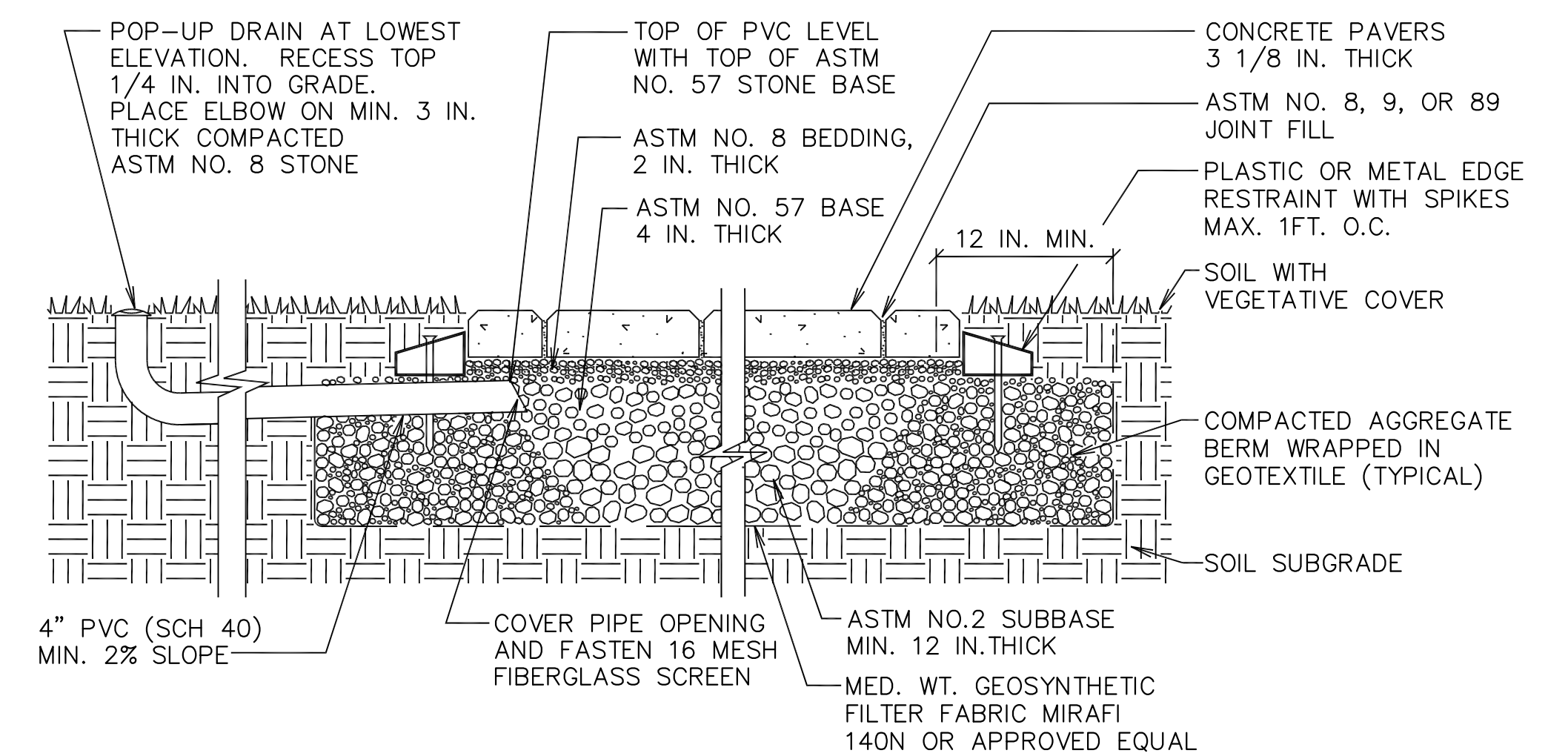
SIGNS

NOTES:
 ALL SIGNS TO BE INSTALLED AS INDICATED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
 LENGTH: AS REQUIRED
 WEIGHT PER LINEAR FOOT: 2.50 LBS (MIN.)
 HOLES: 3/8" DIAMETER, 1" C-C FULL LENGTH
 STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-576 (GRADE 1070 - 1080)
 FINISH: SHALL BE PAINTED WITH TWO COATS OF AN APPROVED BAKED ON OR AIR DRIED, PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.



BOLLARD
NOT TO SCALE

TRAFFIC SIGN DETAILS
NOT TO SCALE



NOTES:
 1. DESIGN, MATERIAL, AND CONSTRUCTION GUIDELINES TO FOLLOW ICPI GUIDE SPECIFICATIONS
 2. DAYLIGHT DRAIN PIPE TO DRAINAGE SWALE. USE POP-UP DRAIN IN YARD (AS SHOWN) OR CONNECT TO STORM SEWER.
 3. APPLY WATERPROOF MEMBRANE VERTICALLY AGAINST HOUSE FOUNDATION PRIOR TO PLACING SUBBASE AND BASE.
 4. ALL SOIL SUBGRADES SHALL SLOPE TOWARD STREET.
 5. SUBGRADE SOIL MAXIMUM CROSS SLOPE IS 0.5%. MAXIMUM LONGITUDINAL SLOPE IS 2% TOWARD STREET.
 6. USE SOIL BERMS FOR LONGITUDINAL SOIL SUBGRADE SLOPES EXCEEDING 2% TOWARD STREET.
 7. 5% MAXIMUM SURFACE SLOPE.
 8. THICKER SUBBASE AND/OR ADDITIONAL DRAIN PIPES MAY BE REQUIRED IF DRIVEWAY RECEIVES RUNOFF FROM ADJACENT IMPERVIOUS SURFACES OR ROOFS.
 9. NO. 2 STONE MAY BE SUBSTITUTED WITH NO.3 OR NO.4 STONE.

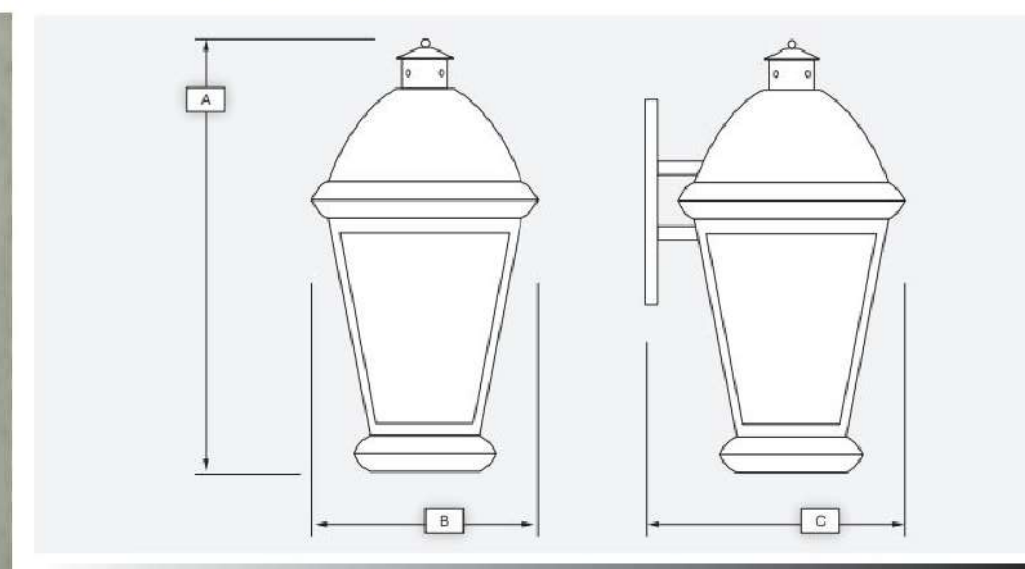
PERMEABLE PAVERS
(NOT TO SCALE)

FOR APPROVAL ONLY
NOT FOR CONSTRUCTION



Catalog #	Type
Project	Date
Description	Date

ARM MOUNT



Standard Features

Material
 Paintlok sheet; Standard Powdercoat Finish. White Acrylic Lens; 125 thickness. ETL Wet Location.

Installation
 Mounting/vent hole in center of backplate. Supplied with standard mounting hardware to mount to a 4" J-box or plaster ring.

Optics*
 Contact Evergreen Lighting for complete photometrics.

LED Features

LED
 Alta LED #AL-R-1W-300 LED array to be mounted onto an Aluminum MPD Board configured to the proper wattage. The LED arrays will be centered within the Lens area and mounted on a white aluminum reflective plate.

Driver
 Specific Drivers will be matched with each different LED array configuration/wattage. Standard Driver Features:
 • Constant Current
 • 3 / 5 year warranty
 • 120/277 multi-voltage power supplies
 • Kelvin - 2700K, 3000K, 3500K, 4100K, 5000K

Fluorescent Features

Ballast
 SC programmed electronic high power factor ballast, multi-voltage 120V/277V. Lamps not included.

Finishes

Ballast
 Architectural Bronze (AB) Textured Gold (TG)
 Textured Bronze (TBR) Metallic Nickel (MN)
 Matte Black (MBK) Textured Verde Patina (TVP)
 Semi Gloss Black (GBK) Satin Brass (SB)
 Textured Black (TBK) Copper Vein (CV)
 Textured Rust (TR) Gold Vein (GV)
 Matte White (MW) Silver Vein (SV)
 Textured White (TW) Chrome (CH)
 Glass White (GW) Oil Rubbed Bronze (ORB)
 Metallic Grey (MG)

Options*

Emergency (EMF) Special Lens
 Photocell (PC) Incandescent
 Lamp Sources
 Size Modifications
 Vandal Proof Enclosure (VPE)

Sample Spec Number: TUS2103Q-AB-A

Part #	Lamp/Watts	Lumens	A	B	C
TUS2103Q	13Q	800	19	9	11
TUS2105T	26T	1800	19	9	11
TUS2104Q	2-13Q	1600	19	9	11
TUS2105	26Q	1800	19	9	11
TUS2211	32T	2200	21 1/2	10	12
TUS2204Q	2-13Q	1600	21 1/2	10	12
TUS2206	2-26Q	3600	21 1/2	10	12
TUS2222	42T	3200	21 1/2	10	12
TUS2108L	6LED	600	19	9	11
TUS2110L	10LED	1000	19	9	11
TUS2112L	12LED	1200	19	9	11
TUS2220L	20LED	2000	21 1/2	10	12
TUS2224L	24LED	2400	21 1/2	10	12
TUS2240L	40LED	4000	21 1/2	10	12
DARK SKY					
TUS2109LS	9LED	900	19	9	11
TUS2115LS	15LED	1500	19	9	11
TUS2220LS	20LED	2000	21 1/2	10	12

Evergreen Lighting
 1379 Ridgeway Street, Pomona, CA 91768
 Ph: 909-865-5599 Fax: 909-865-5539
 www.evergreenlighting.com

*Consult Factory

MADE IN CALIFORNIA

BUILDING MOUNTED DOWNWARD THROW

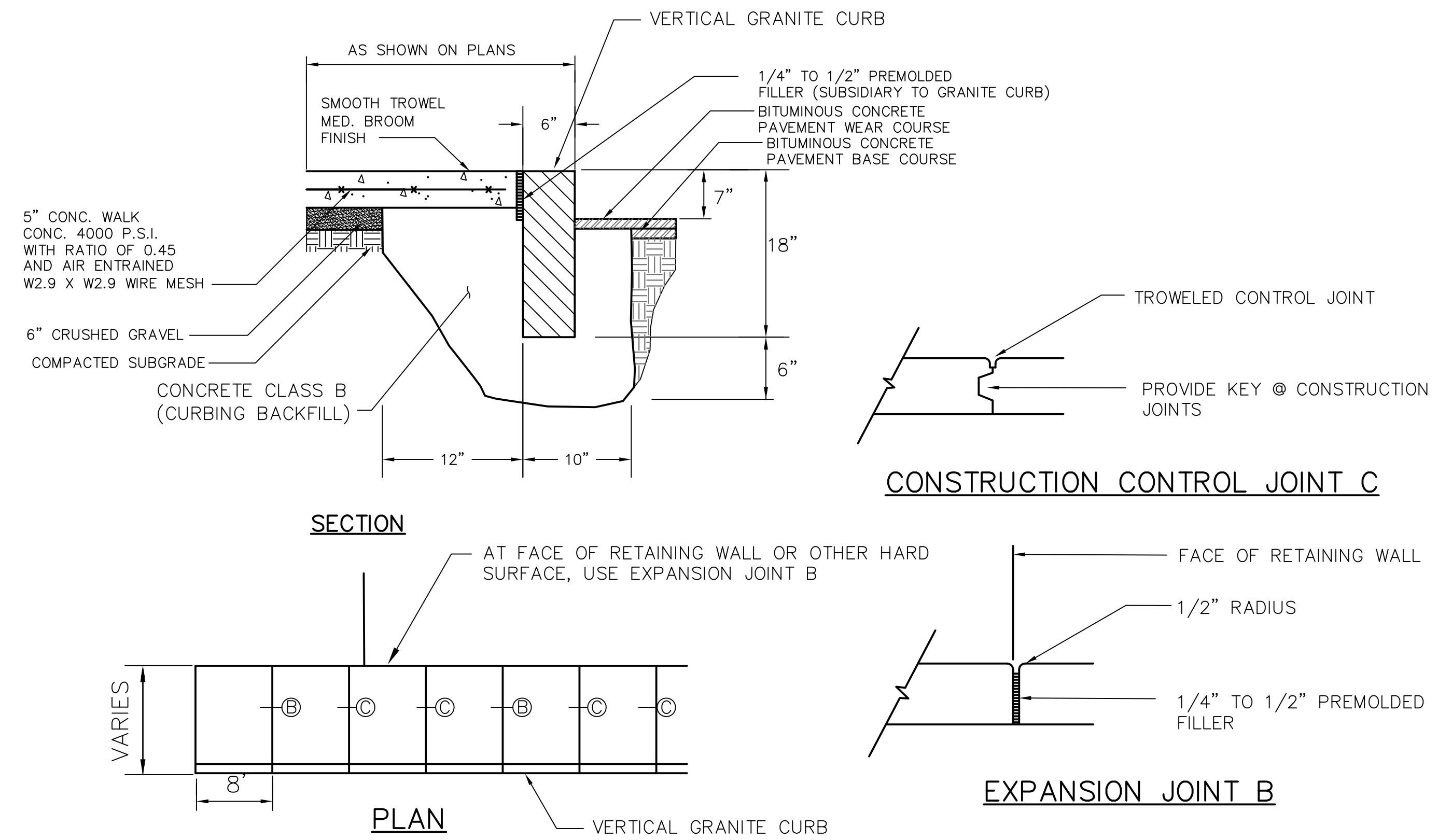
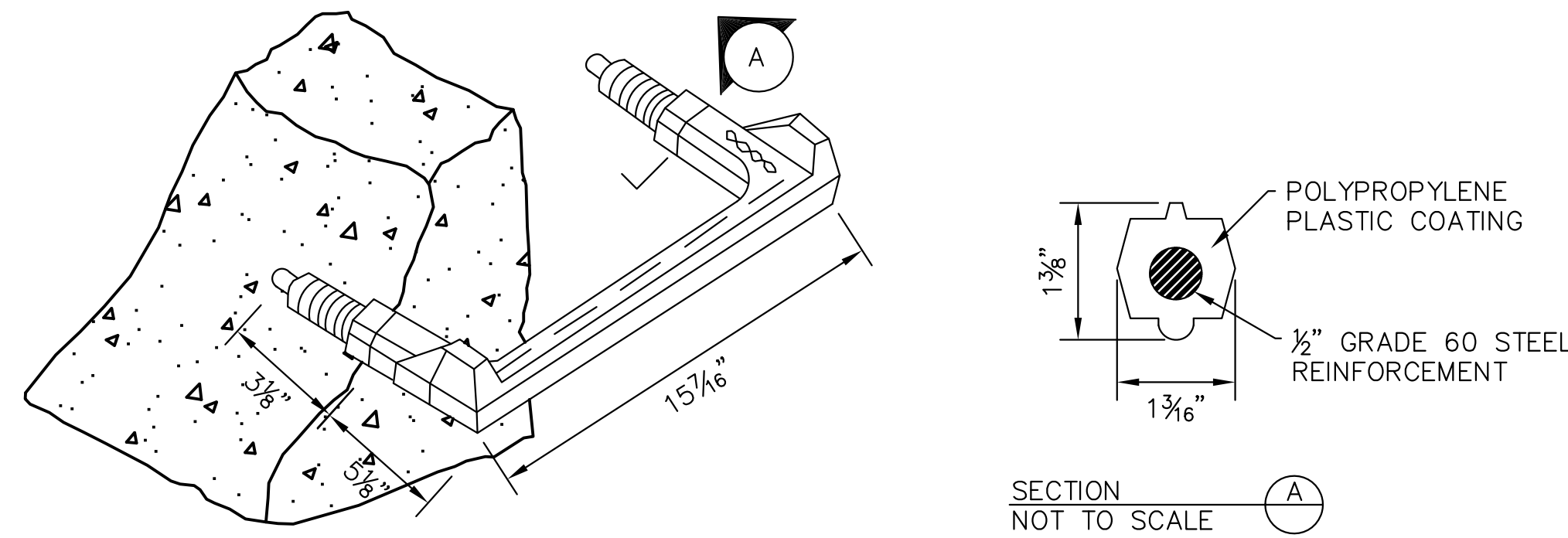
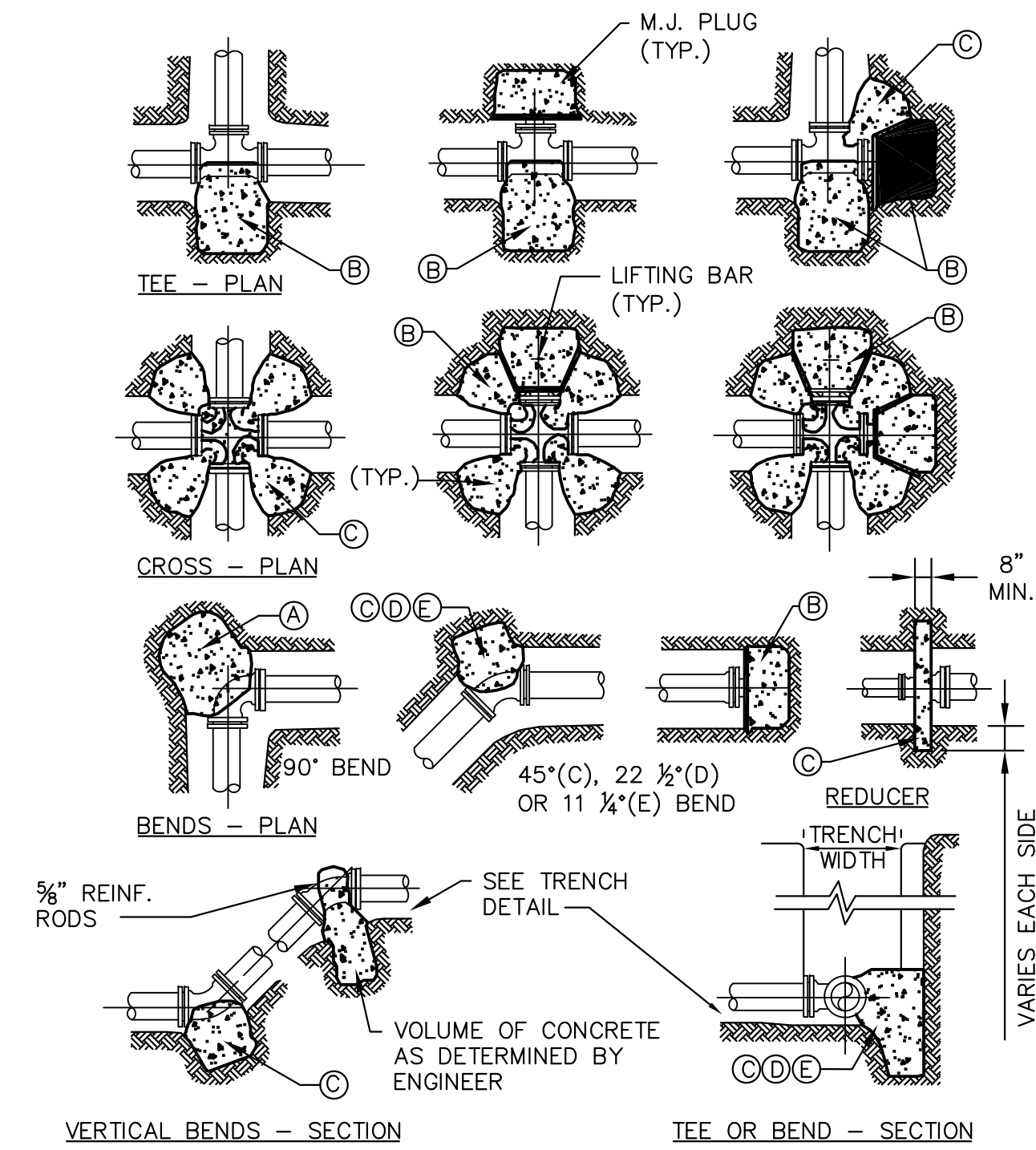
OWNER:
MCKENAN
PROPERTIES, LLC
 100 CARL DRIVE
 UNIT #B
 MANCHESTER, NH. 03103

APPLICANT:
GEORGES
REALTY, LLC
 c/o WIL GEORGES
 100 CARL DRIVE, 11a
 MANCHESTER, NH. 03103

ECKMAN
Engineering, LLC
 1950 Lafayette Road Unit 210, PO Box 8025
 Portsmouth, New Hampshire 03802
 Phone: (603) 433-1354
 Fax: (603) 433-2367

No.	DESCRIPTION	BY	DATE

TOWN	GREENVILLE, NEW HAMPSHIRE	BRIDGE NO.	----
FEDERAL PROJECT	----	NHDOT PROJECT	N/A
LOCATION	TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1 OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH		
DETAILS (SIGNS, LIGHTING & MATTING)			
DESIGNED	SRP	BY DATE	EE PROJ. NO.
DRAWN	JJM	10/22	22-105
QUANTITIES			DWG FILE
			22-105_ENG
REVIEWED BY:		NHDOT PROJ. NO.	
		NA	D-3



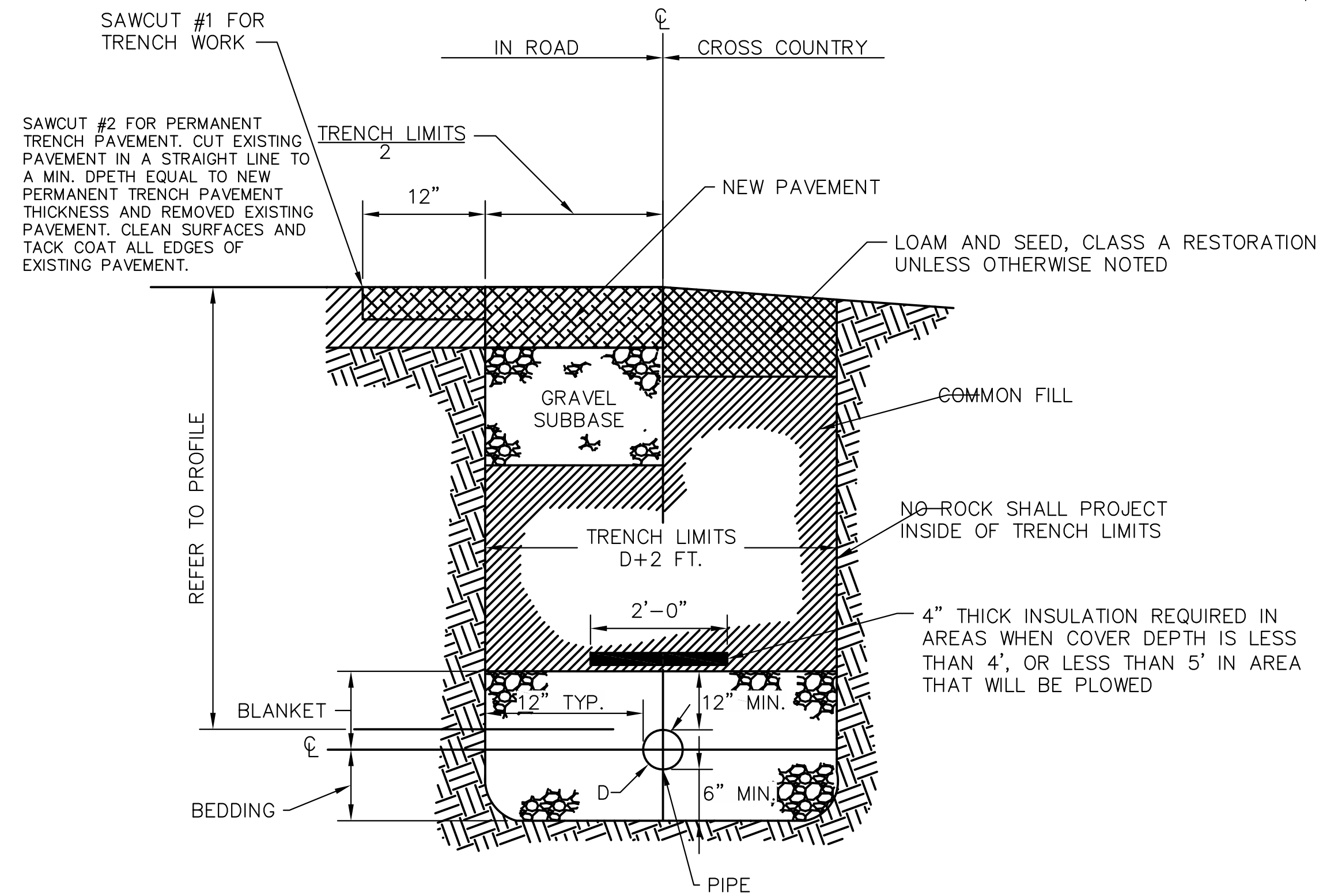
THRUST BLOCK SCHEDULE		SQUARE FEET OF CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL												
REACTION TYPE	PIPE SIZE	PIPE SIZE												
		4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	48"
TEST PRESSURE = 100 PSIG	A	1.71	2.49	4.29	6.45	9.12	12.26	15.85	19.91	24.43	34.85	53.62	76.81	135.12
	B	1.21	3.53	6.06	9.12	12.70	17.33	22.42	28.16	34.55	49.29	75.83	108.62	191.09
	C	0.92	0.95	3.28	4.94	6.98	9.38	12.13	15.24	18.70	26.68	41.04	58.78	103.42
	D	0.47	0.97	1.67	2.52	3.56	4.78	6.19	7.77	9.53	13.60	20.92	29.97	52.72
	E	0.24	0.49	0.84	1.26	1.79	2.40	3.41	3.90	4.79	6.83	10.51	15.06	26.49

OTHER TEST PRESSURES FOR THE ABOVE REACTIONS: TEST PRESSURE TO BE 200 PSI MIN. AT LOW END OF THE TEST SECTION. SQUARE FEET OF CONCRETE THRUST BLOCKING FOR OTHER TEST PRESSURES IS DIRECTLY PROPORTIONAL TO THE ABOVE TABLE. FOR INSTANCE, AT 200 PSI TEST PRESSURE FOR ABOVE NUMBERS DOUBLE.

- NOTES:
- POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.
 - ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
 - PLACE CONCRETE PATIO BLOCKS IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCK.
 - REQUIREMENTS OF THE ABOVE TABLE PRESUME MINIMUM SOIL BEARING OF 1 TON PER SQUARE FOOT, AND MAY BE VARIED BY THE ENGINEER TO MEET OTHER CONDITIONS ENCOUNTERED.
 - MEGA-LUG RETAINER GLANDS WITH MEGA-BOND ARE REQUIRED FOR MECHANICAL JOINTS. THESE GLANDS DO NOT REDUCE THE REQUIREMENTS FOR THRUST RESTRAINT.
 - ALL FITTINGS SHALL BE WRAPPED IN POLYETHYLENE OR BUILDING PAPER PRIOR TO INSTALLATION OF CONCRETE RESTRAINT.
 - THREADED ROD SHALL BE ANSI 1242 F150 PIPE RESTRAINT NUTS TO MATCH AWWA C111. THREADED RODS AND NUT TO BE FIELD COATED WITH BITUMINOUS PAINT.
 - THRUST RESTRAINT IS REQUIRED FOR ALL TEES, BENDS, REDUCERS, CAPS, PLUGS, OR CROSSES.
 - INSTALL LIFT HOOKS INTO THRUST BLOCKS AT END CAPS AND PLUGS.
 - THRUST BLOCK AREA IS BASED ON SILT SOIL WITH A BEARING STRENGTH OF 1500 PSF AND A SAFETY FACTOR OF 1.5.
 - PRE-FORMED AND PRE-POURED THRUST BLOCKS ARE NOT ACCEPTABLE.

THRUST BLOCK DETAILS AND NOTES
NOT TO SCALE

PLAN SIZE:
FULL SIZE PLANS ARE 24x36
11x17 ARE APPROXIMATE HALF SCALES



SANITARY SEWER TYPICAL TRENCH DETAIL
NOT TO SCALE

- NOTES:
- WHERE PIPE IS INSTALLED IN GRAVEL SHOULDER OR IN GRAVELED ROAD, GRAVEL SUBBASE SHALL BE 18" THICK FOR THE WIDTH OF THE TRENCH.
 - REFER TO SPECIFICATIONS FOR PAVEMENT THICKNESS REQUIREMENTS.
 - REFER TO SPECIFICATIONS FOR COMMON FILL, BEDDING, AND SUBBASE MATERIAL AND THICKNESS.
 - DEPTH AT TOP OF PIPE SHALL NEVER BE LESS THAN 3' EVEN WITH INSULATION.
 - TRENCH LIMITS SHOWN ARE NOT PAY LIMITS.
 - REFER TO THE SPECIFICATIONS FOR COMPACTION.

**FOR APPROVAL ONLY
NOT FOR CONSTRUCTION**

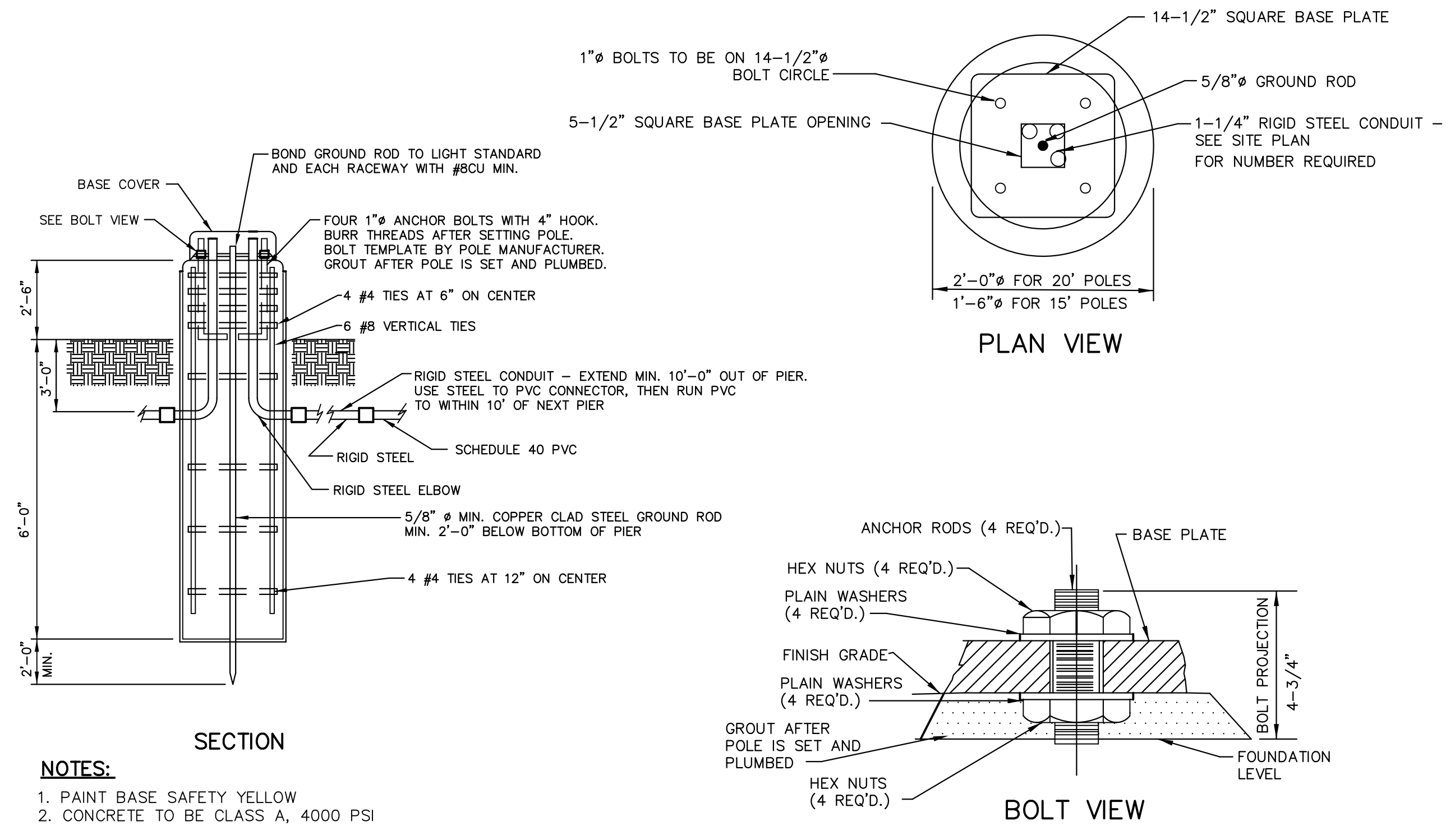
OWNER:
MCKENAN PROPERTIES, LLC
100 CARL DRIVE
UNIT #8
MANCHESTER, NH. 03103

APPLICANT:
GEORGES REALTY, LLC
c/o WIL GEORGES
100 CARL DRIVE, 11a
MANCHESTER, NH. 03103

ECKMAN Engineering, LLC
1950 Lafayette Road Unit 210, PO Box 8025
Portsmouth, New Hampshire 03802
Phone: (603) 433-1354
Fax: (603) 433-2367

No.	DESCRIPTION	BY	DATE

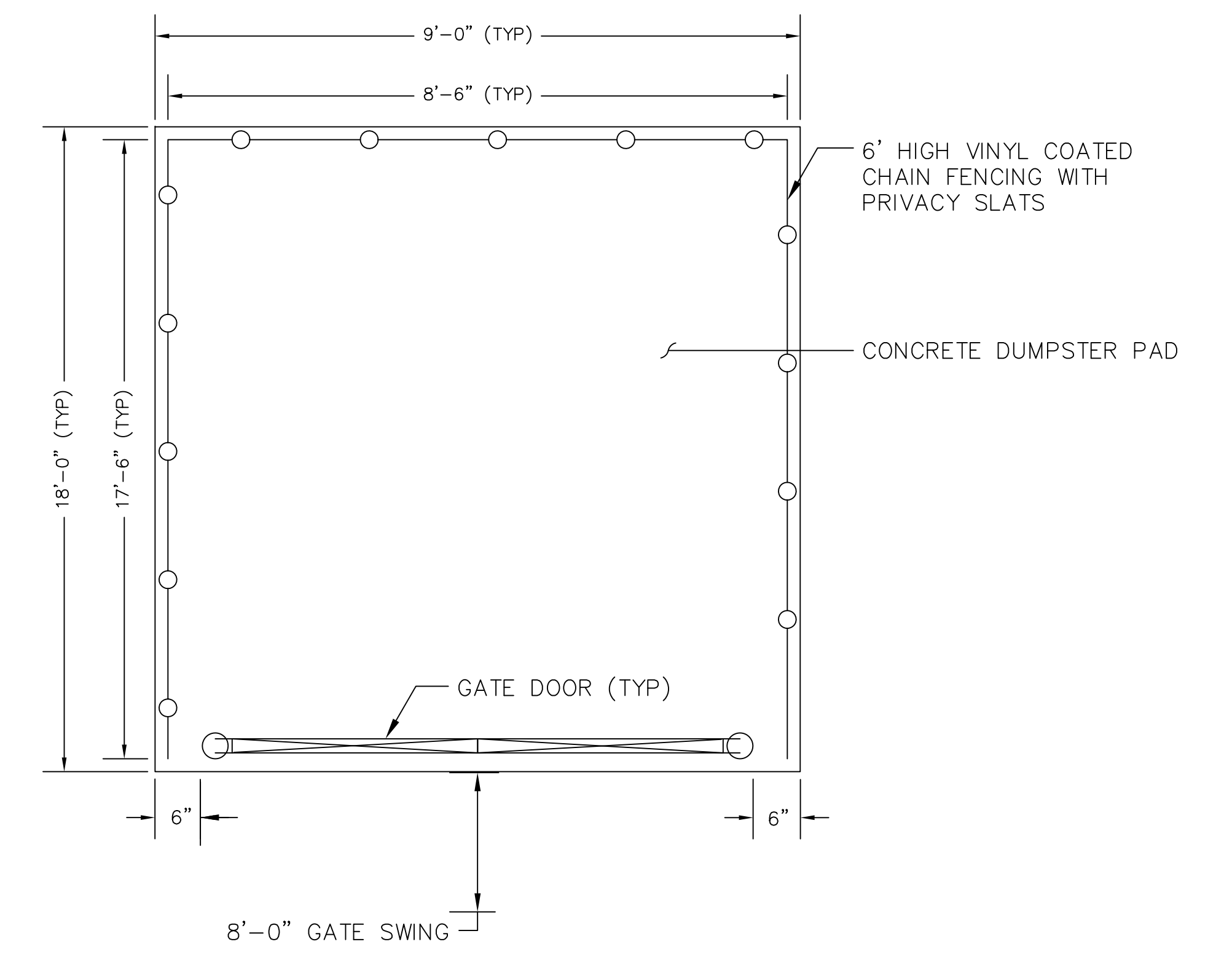
TOWN	GREENVILLE, NEW HAMPSHIRE	BRIDGE NO.	----
FEDERAL PROJECT	----	NHDOT PROJECT	N/A
LOCATION	TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1 OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH		
DETAILS - (SEWER & WATER)			
DESIGNED	SRP	BY DATE	10/22
DRAWN	JJM	CHECKED	DEE 11/22
TRACED		CHECKED	DEE 11/22
QUANTITIES		CHECKED	
REVIEWED BY:		NHDOT PROJ. NO.	NA
			D-4



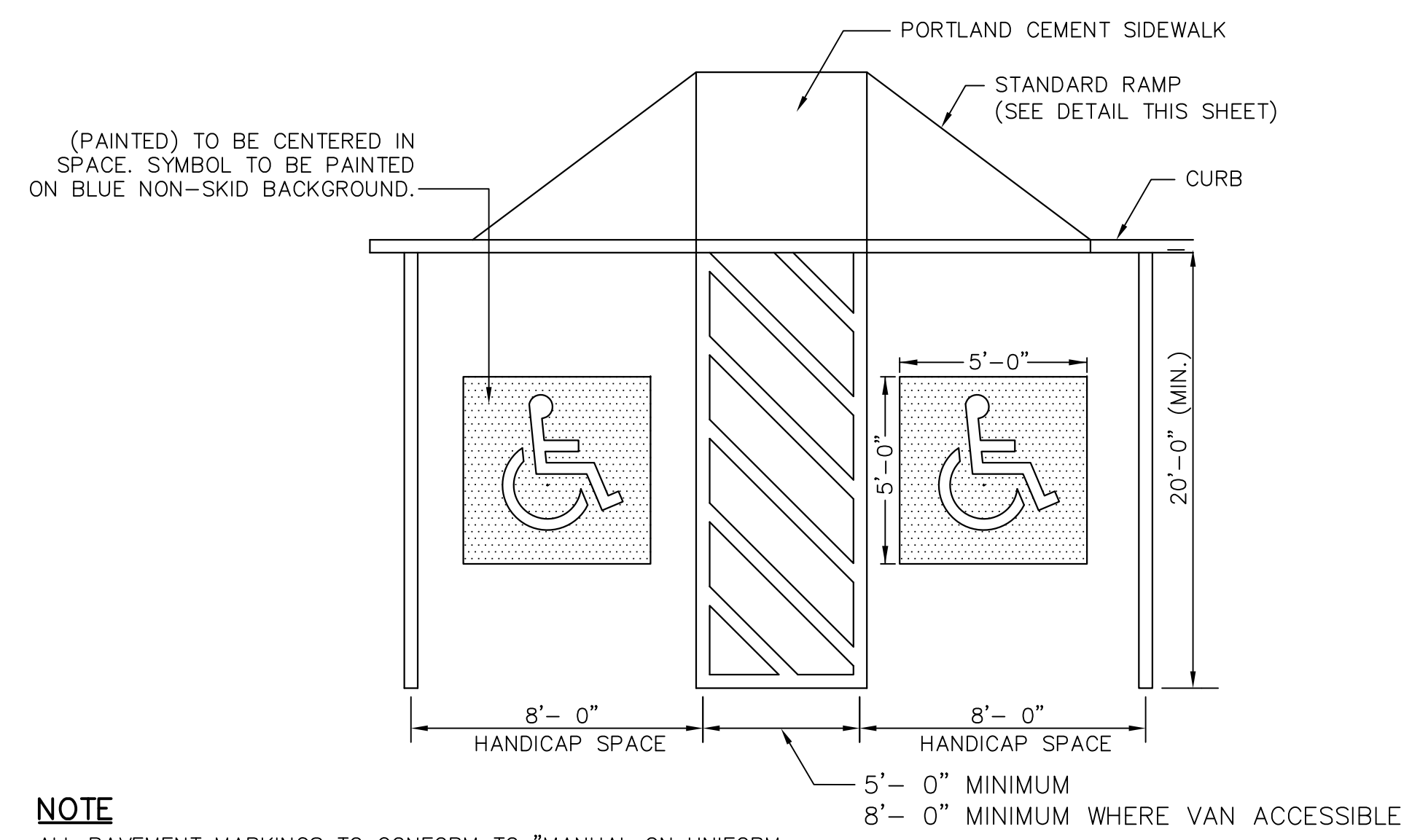
NOTES:
 1. PAINT BASE SAFETY YELLOW
 2. CONCRETE TO BE CLASS A, 4000 PSI

LIGHT POLE BASE
 NOT TO SCALE

- GENERAL NOTES**
1. DETAILS ARE FROM NH DOT STANDARD PLANS.
 2. ALL LIGHT POLES, LUMINAIRES, AND WIRE TO BE FURNISHED AND INSTALLED BY THE POWER COMPANY, UNLESS OTHERWISE DIRECTED.
 3. ANCHOR BOLTS, GROUND ROD & GROUND WIRE TO BE FURNISHED BY THE POWER COMPANY AND INSTALLED BY THE CONTRACTOR, UNLESS OTHERWISE DIRECTED.
 4. BOLT CIRCLE DIAMETER SHALL BE VERIFIED WITH THE POWER COMPANY.
 5. ALL BASES SHALL BE LOCATED 3.0 m (TO CENTER) FROM FACE OF CURB OR EDGE OF PAVED SHOULDER, UNLESS OTHERWISE NOTED.
 6. REINFORCEMENT SHALL CONFORM TO SECTION 544 OF THE STANDARD SPECIFICATIONS.
 7. ANY ANCHOR BOLTS DAMAGED DURING INSTALLATION SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER.
 8. UPON INSTALLATION, ANCHOR BOLT THREADS SHALL BE CLEANED WITH A WIRE BRUSH.
 9. TERRAIN SURROUNDING BASE MUST BE GRADED AS SHOWN IN DETAIL 'A' TO PREVENT IMPACTING VEHICLES FROM SNAGGING ON BASE.
 10. ITEM NO. 625.2 OR 625.22

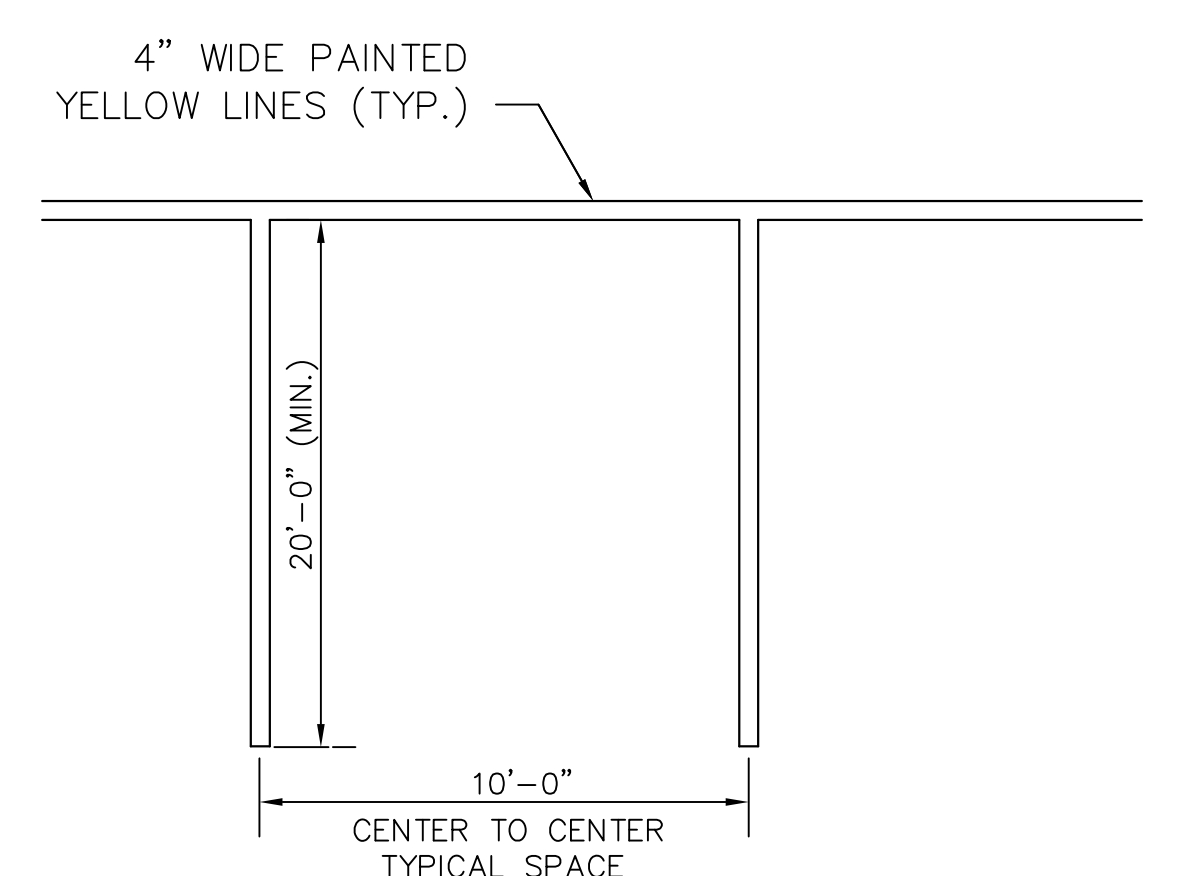


DUMPSTER ENCLOSURE PLAN
 NOT TO SCALE



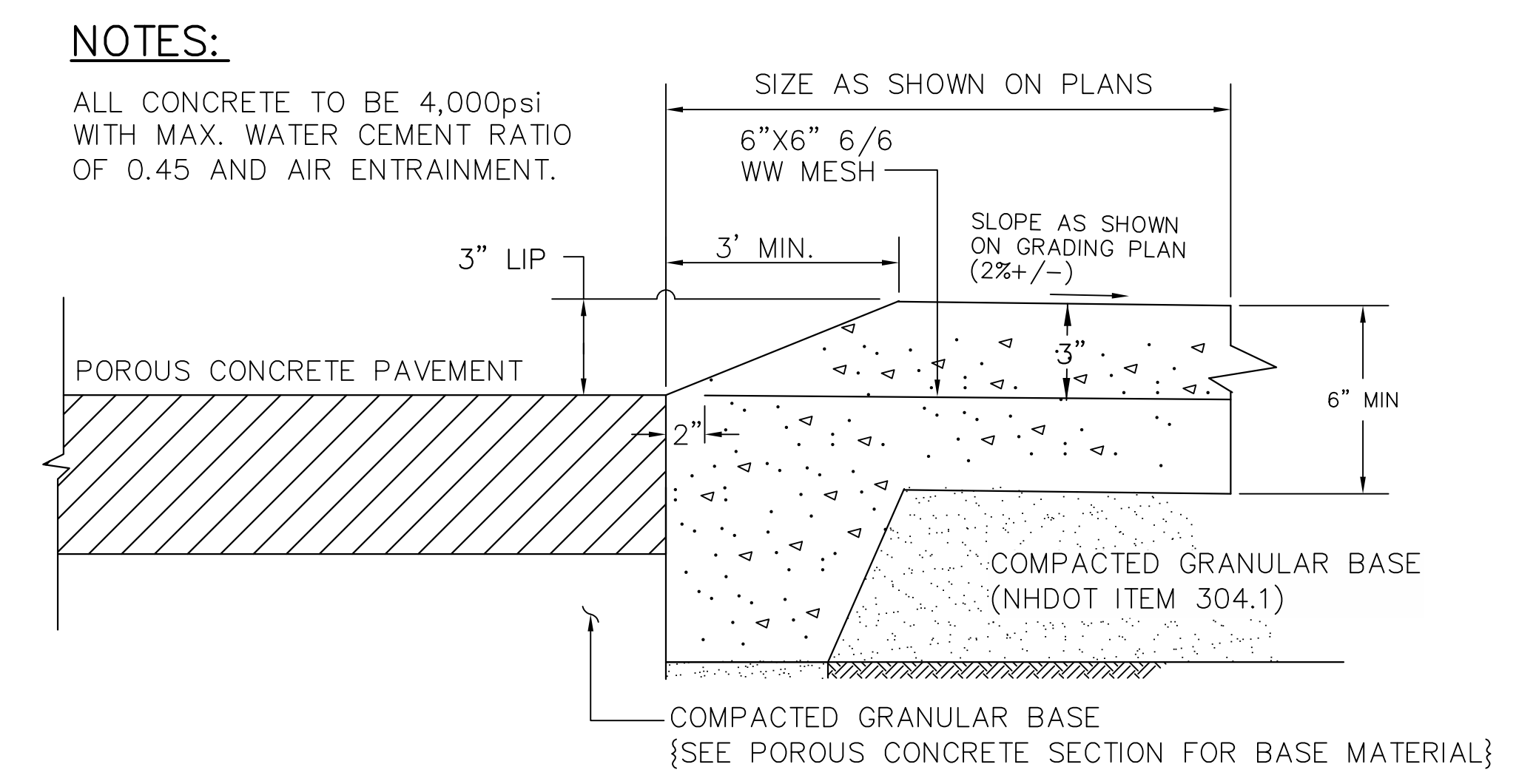
NOTE
 ALL PAVEMENT MARKINGS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", LATEST EDITIONS.

HANDICAP PARKING STALL
 NOT TO SCALE



NOTES
 ALL PAINT SHALL BE FAST DRYING TRAFFIC PAINT, MEETING AASHTO M248 TYPE F REQUIREMENTS
 PAINT SHALL BE APPLIED ACCORDING TO MANUFACTURERS SPECIFICATIONS 2.

SINGLE STRIPPED PARKING STALL
 NOT TO SCALE



CONCRETE DUMPSTER PAD
 NOT TO SCALE

NOTES:
 ALL CONCRETE TO BE 4,000psi WITH MAX. WATER CEMENT RATIO OF 0.45 AND AIR ENTRAINMENT.

FOR APPROVAL ONLY
NOT FOR CONSTRUCTION

PLAN SIZE:
 FULL SIZE PLANS ARE 24x36
 11x17 ARE APPROXIMATE HALF SCALES

OWNER:
MCKENAN PROPERTIES, LLC
 100 CARL DRIVE
 UNIT #8
 MANCHESTER, NH. 03103

APPLICANT:
GEORGES REALTY, LLC
 c/o WIL GEORGES
 100 CARL DRIVE, 11a
 MANCHESTER, NH. 03103

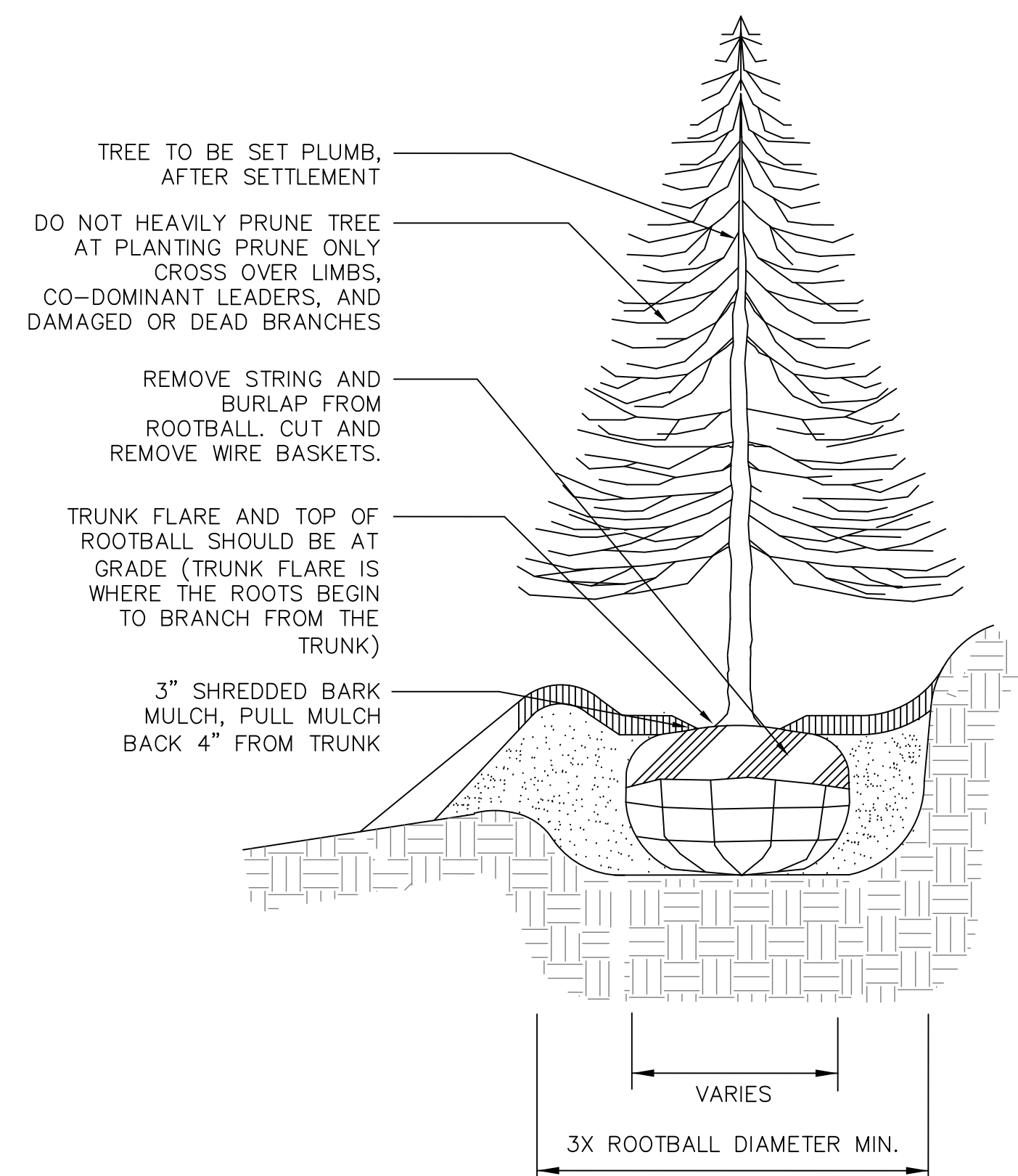
ECKMAN Engineering, LLC
 1950 Lafayette Road Unit 210, PO Box 8025
 Portsmouth, New Hampshire 03802
 Phone: (603) 433-1354
 Fax: (603) 433-2367

No.	DESCRIPTION	BY	DATE

TOWN	GREENVILLE, NEW HAMPSHIRE	BRIDGE NO.	----
FEDERAL PROJECT	----	NHDOT PROJECT	N/A
LOCATION	TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1 OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH		
DETAILS -- (PARKING, POLE BASE & DUMPSTER)			
DESIGNED	SRP	DATE	10/22
DRAWN	JJM	DATE	10/22
TRACED		DATE	
QUANTITIES		DATE	
BY	DEE	DATE	11/22
CHECKED	DEE	DATE	11/22
CHECKED		DATE	
CHECKED		DATE	
REVIEWED BY:		NHDOT PROJ. NO.	NA
		EE PROJ. NO.	22-105
		DWG FILE	22-105-ENG
			D-5

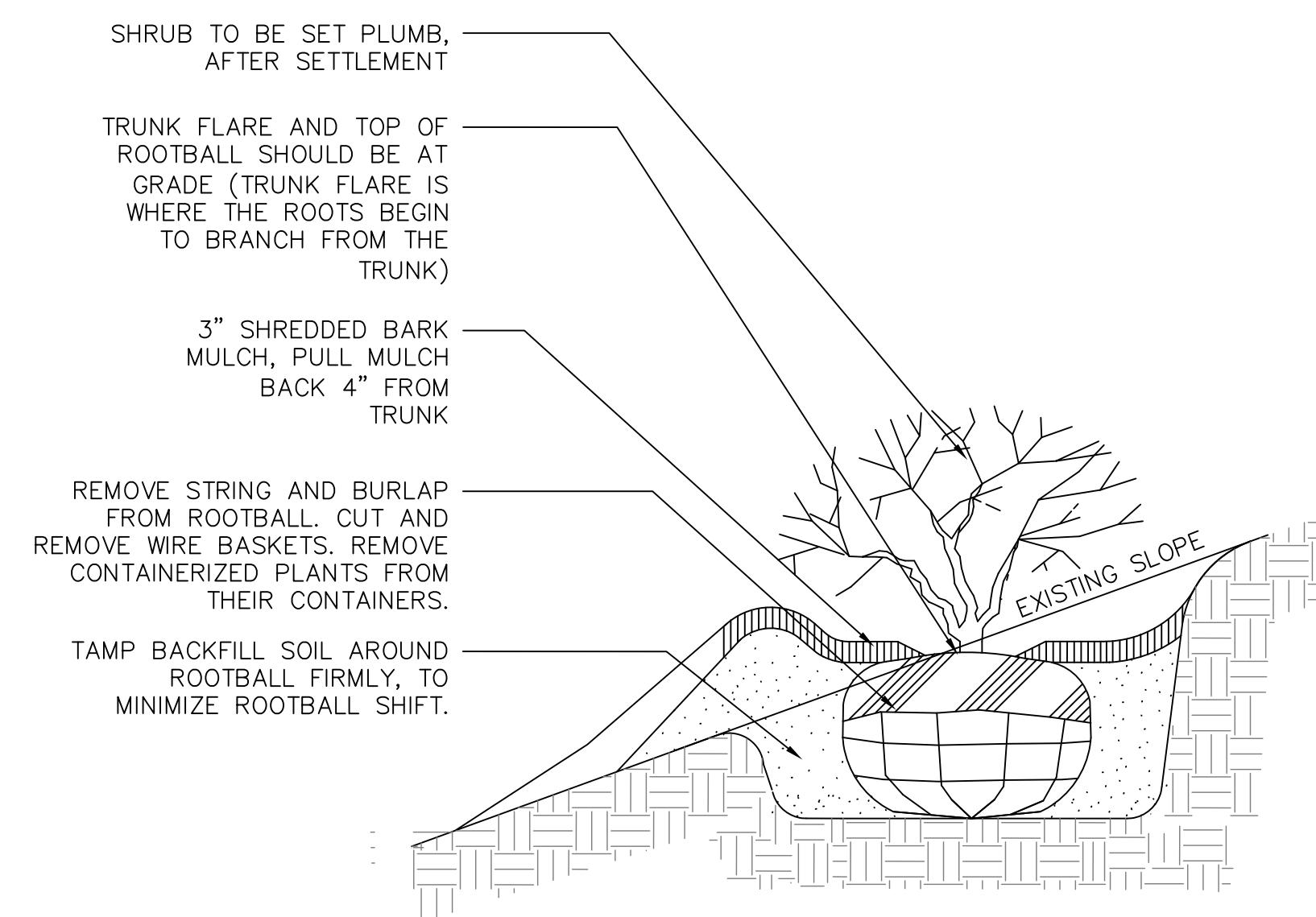
GENERAL NOTES

1. VERIFY LOCATIONS, ELEVATIONS, AND DIMENSIONS IN THE FIELD, PRIOR TO CONSTRUCTION. VERIFY FIELD CONDITIONS RELATING TO WORK TO BE INSTALLED. NOTIFY LANDSCAPE ARCHITECT OF ANY UNUSUAL OR DIFFICULT CONDITIONS IN A TIMELY FASHION PRIOR TO CONSTRUCTION CONCERNING THE CONDITION IN QUESTION.
2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE TOWN OF GREENVILLE & STATE OF NH. NOTIFY APPROPRIATE AGENCIES AT LEAST 48 HOURS PRIOR TO PERFORMING THE WORK UNDER THEIR JURISDICTION.
3. CONTRACTOR IS RESPONSIBLE FOR SECURING AND PAYING FOR ALL CONSTRUCTION PERMITS AND LICENSES REQUIRED TO COMPLETE SITE WORK. CONTRACTOR IS RESPONSIBLE FOR ALL APPROPRIATE INSPECTIONS OF HIS/HER WORK.
4. ALL WORK SHALL BE OF WORKMANLIKE QUALITY AND IN CONFORMANCE WITH ALL APPLICABLE CODES. CONTRACTOR SHALL READ ALL ZONING AND ENVIRONMENTAL PERMITS WHICH PERTAIN TO THE PROJECT AND SHALL COMPLY WITH ALL THE CONDITIONS THEREIN.
5. NOTIFY LANDSCAPE ARCHITECT AT LEAST 72 HOURS PRIOR TO ANY ROUTINE REQUIRED FIELD OBSERVATION. OBTAIN LANDSCAPE ARCHITECT'S APPROVAL OF THE LAYOUT OF ALL IMPROVEMENTS PRIOR TO CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF DAMAGE OR DISTURBANCE TO OTHER AREAS WHICH MAY OCCUR AS THE RESULT OF HIS/HER WORK WHETHER WITHIN OR OUTSIDE OF THE CONTRACT LIMIT LINES.
7. CONSTRUCTION SHALL FOLLOW THE SEQUENCES AND CONDITIONS ESTABLISHED IN THE SPECIFICATIONS AND PERMITS.
8. IT IS INTENDED THAT THE WORK BE EXECUTED IN ACCORDANCE WITH THE BEST CUSTOMARY BUILDING PRACTICES. IF WORK IS REQUIRED IN A MANNER TO MAKE IT IMPOSSIBLE TO PRODUCE FIRST-CLASS WORK OR IF ERRORS, CONFLICTS OR DISCREPANCIES APPEAR AMONG THE CONTRACT DOCUMENTS, INFORM THE LANDSCAPE ARCHITECT IMMEDIATELY AND REQUEST INTERPRETATION BEFORE PROCEEDING WITH THE WORK.
9. IF CONTRACTOR FAILS TO MAKE SUCH A STATEMENT AND REQUEST, NO EXCUSE WILL THEREAFTER BE ENTERTAINED, NOR ADDITIONAL EXPENSE BE ACCEPTED, FOR FAILURE TO CARRY OUT WORK IN A SATISFACTORY MANNER. SHOULD CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, CONTRACTOR IS DEEMED TO HAVE ESTIMATED ON THE MORE EXPENSIVE WAY OF DOING WORK UNLESS HE/SHE SHALL HAVE OBTAINED A WRITTEN DECISION, BEFORE SUBMITTING HIS BID, AS TO WHICH METHOD OR MATERIALS WILL BE REQUIRED.
10. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS AND EQUIPMENT STORED AT SITE.
11. EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY WORK.
12. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT FOR DIRECTION AND RESOLUTION PRIOR TO ANY FURTHER WORK.
13. VISIBLE EXISTING CONDITIONS WHERE FIELD LOCATED, AND UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. SITE SUBCONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS, DIMENSIONS, AND GRADES. PRIOR TO START OF ANY FOUNDATION OR UTILITY WORK.
14. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
15. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY TERRAIN PLANNING & DESIGN LLC, DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR, ENGINEER OR LANDSCAPE ARCHITECT HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
16. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND ALL EXISTING CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF HIS INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
17. THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL LANDSCAPE ARCHITECT. NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT OF RECORD.
18. PREPARATION UNDER ALL HARD SURFACES TO BE COMPACTED TO 98% STANDARD PROCTOR DENSITY.
19. SITE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE PRIOR TO ANY EXCAVATION, 1-888-DIG-SAFE.



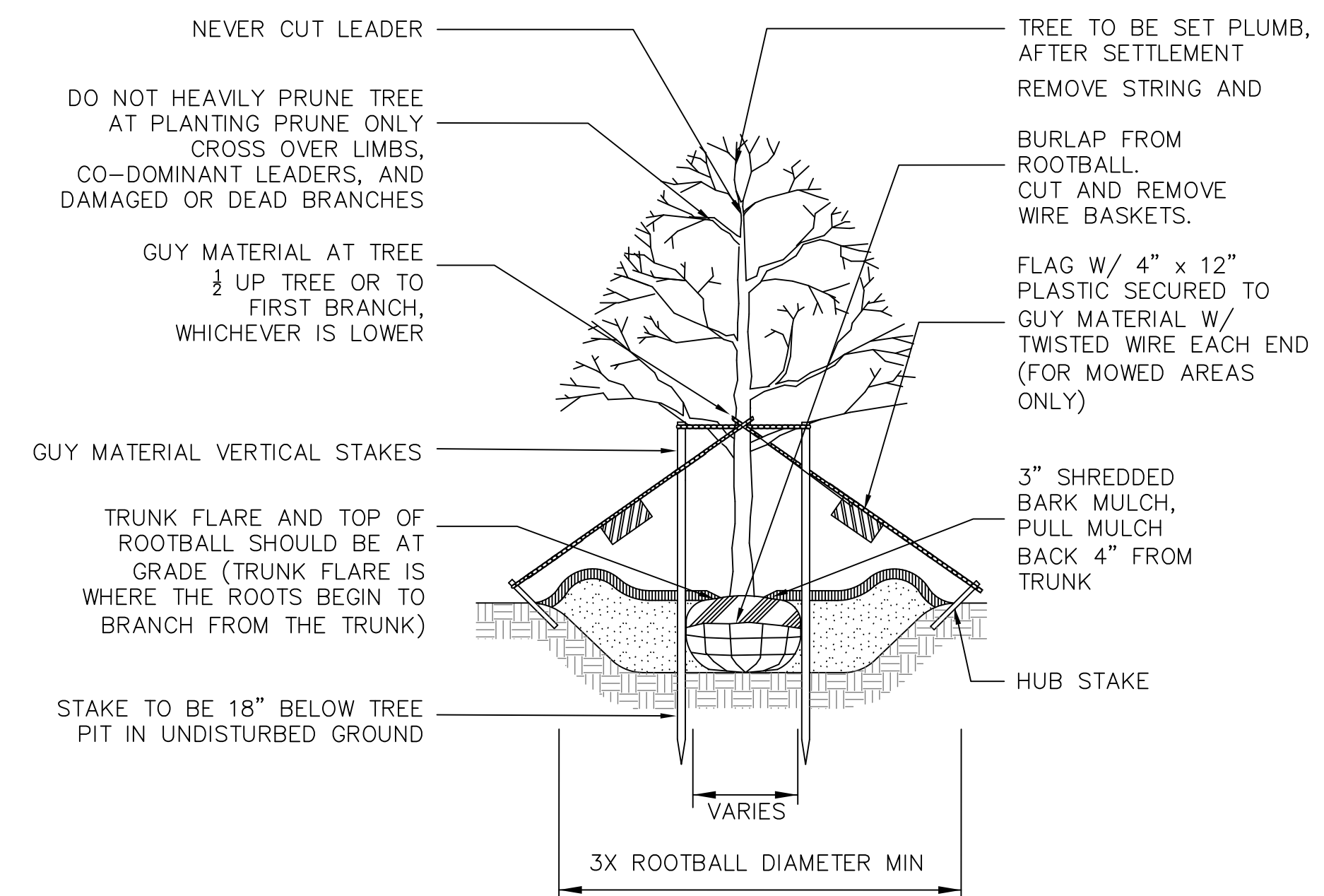
- NOTES:**
1. DO NOT STAKE EVERGREEN TREES.
 2. LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
 3. TAMP BACKFILL SOIL AROUND ROOTBALL FIRMLY TO MINIMIZE ROOTBALL SHIFT.

EVERGREEN TREE PLANTING



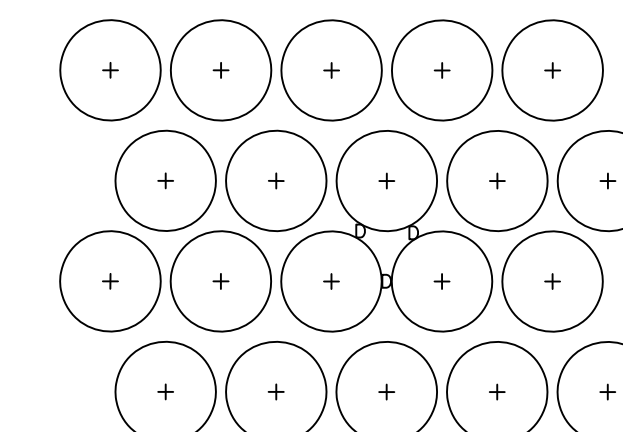
- NOTE:**
1. DO NOT HEAVILY PRUNE SHRUB AT PLANTING, PRUNE ONLY CROSSOVER LIMBS AND DAMAGED OR DEAD BRANCHES.
 2. BACKFILL WITH LOAM, AMEND AS REQUIRED BY LANDSCAPE ARCHITECT.
 3. SHRUBS & GROUNDCOVER PLANTED ADJACENT TO CITY SIDEWALKS NEED TO BE PLACED SO THE PLANTS, AT THEIR MATURE HEIGHT & WIDTH, WILL NOT ENCR OACH INTO THE CITY'S SIDEWALK.

TYPICAL SHRUB PLANTING

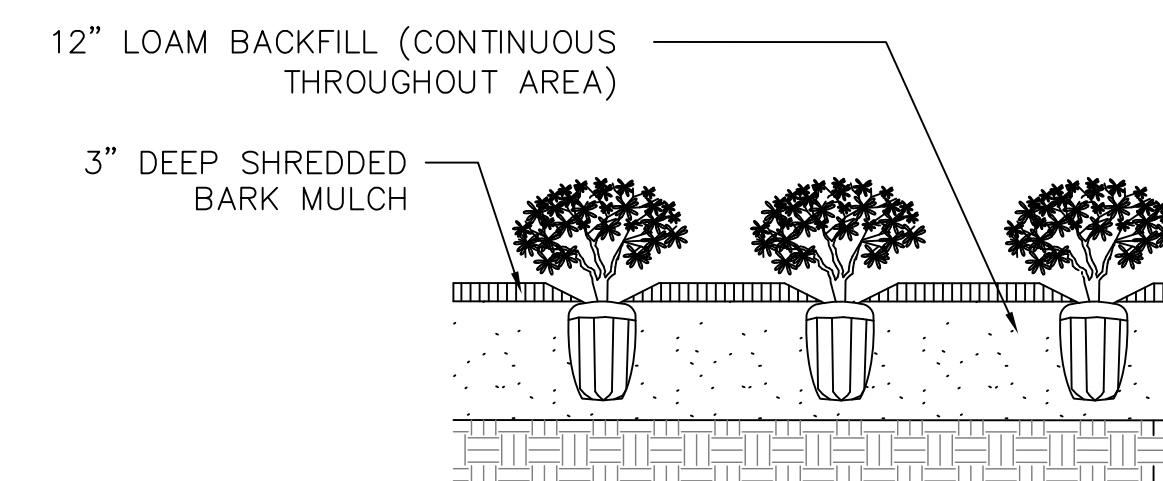


- NOTES:**
1. GUYING AND STAKING TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LOCAL FIELD CONDITIONS AS WELL AS PLANT CHARACTERISTICS WILL DETERMINE THE NECESSITY OF GUYING AND STAKING.
 2. TYPICALLY ONLY TREES WITH A 3" OR GREATER CALIPER NEED TO BE STAKED. TREES WITH LESS THAN A 3" CALIPER NEED TO BE STAKED ONLY AS REQUIRED BY LANDSCAPE ARCHITECT.
 3. ONLY WRAP TREE TRUNKS AS REQUIRED BY LANDSCAPE ARCHITECT.
 4. TREE SHALL BE SET PLUMB, AFTER SETTLEMENT.
 5. LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
 6. CITY TREES PLANTED ON PRIVATE PROPERTY, ADJACENT TO A PUBLIC RIGHT-OF-WAY, NEED TO BE PLANTED A MINIMUM OF 5 FEET FROM THE EDGE OF THE CITY SIDEWALK.

DECIDUOUS TREE PLANTING



NOTE:
D = DIMENSION OF PLANT SPACING (SHRUB OR GROUNDCOVER AS INDICATED ON PLANS)



TYPICAL PERENNIAL PLANTING

**FOR APPROVAL ONLY
NOT FOR CONSTRUCTION**

PLAN SIZE:
FULL SIZE PLANS ARE 24x36
11x17 ARE APPROXIMATE HALF SCALES

OWNER:
**MCKENAN
PROPERTIES, LLC**
100 CARL DRIVE
UNIT #8
MANCHESTER, NH. 03103

APPLICANT:
**GEORGES
REALTY, LLC**
c/o WIL GEORGES
100 CARL DRIVE, 11a
MANCHESTER, NH. 03103

**ECKMAN
Engineering, LLC**
1950 Lafayette Road Unit 210, PO Box 8025
Portsmouth, New Hampshire 03802
Phone: (603) 433-1354
Fax: (603) 433-2367

No.	DESCRIPTION	BY	DATE

TOWN	GREENVILLE, NEW HAMPSHIRE	BRIDGE NO.	----
FEDERAL PROJECT	----	NHDOT PROJECT	N/A
LOCATION	TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1 OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH		
DETAILS (BMP'S FOR INVASIVE SPECIES)			
DESIGNED	SRP	BY DATE	10/22
DRAWN	JJM	CHECKED	DEE 11/22
TRACED		CHECKED	DEE 11/22
QUANTITIES		CHECKED	
REVIEWED BY:		NHDOT PROJ. NO.	NA
		EE PROJ. NO.	22-105
		DWG FILE	22-105_ENG
			D-6

BEST MANAGEMENT PRACTICES FOR COMMON INVASIVE SPECIES

Eckman Engineering was on-site late fall well after the growing season and while no invasive species were identified on site it is important that the contractor have Best management Practices available to deal with invasive species should they be encountered. BMPs are therefore provided to deal with several common invasive species that are frequently encountered in the State of New Hampshire. Prior to beginning work the contractor shall have a professional qualified to identify invasive species check the proposed excavation areas of the site. The contractor shall apply or hire someone experienced to apply the following BMPs required:

Knotweed

Knotweed BMP #1: Any treatment or control of knotweed should take place prior to seed maturation (late August). While knotweed spreads primarily via vegetative reproduction, it does produce viable seeds that can germinate in the wild.

Knotweed BMP #2: Do not mow knotweed, especially if it is growing near a ditch line, wetland, or surface water. Mowing knotweed creates small stem fragments that can be spread by the mowing equipment or moving water. These fragments can sprout and start new populations of knotweed.

Knotweed BMP #3: If knotweed must be removed (i.e. for safety reasons), a control plan should be implemented using preferred control methods (see following page). If a control plan is not implemented, the preferred method of removal is hand cutting, especially near water.

Knotweed BMP #4: If hand cutting is not feasible and mowing equipment must be used, the site should be raked immediately after mowing and as much plant material as possible should be collected and rendered nonviable. All mowing equipment should be cleaned prior to leaving the site. Note that cutting, whether manual or mechanical, is generally not an effective method for eradicating knotweed.

Knotweed BMP #5: If excavation will occur in areas containing knotweed, one or more of the following methods must be used to avoid spreading viable plant material:
a) Treat all knotweed stems with herbicide. This control method should be carried out at least two years prior to excavation in order to allow time to perform an adequate number of herbicide treatments to kill the entire root system.
b) Excavate as needed and spread all material containing roots and stems on an impervious surface. Care must be taken not to spread plant material during excavation and transport. Root material should be broken up as much as possible to promote a faster drying time. Once material has completely dried out, it is nonviable and can be used or disposed of on or off site.
c) If the above methods are not feasible, excavated material can be buried at the site of infestation at least five feet below grade.

Knotweed Control Option #1: Chemical Control
Herbicide treatment is the most effective way to eradicate knotweed. The best time to apply herbicide is late summer or early fall, when the plants are just starting to flower. The following application methods are effective; however, treatments will likely be required for at least two consecutive years, regardless of the method used.
Effective herbicide treatments:
a) Early summer cut followed by a late summer/early fall foliar spray – best for small to medium sized populations.
b) Foliar spray twice in one growing season – best for large, dense populations
c) Stem injection – best for small to medium sized populations
d) Cut & fill (stem cut and filled with herbicide) – best for small to medium sized populations

Important considerations:
§ Any method that requires cutting the knotweed stems necessitates proper disposal of the cut stems.
§ Presently, the NH Department of Agriculture Division of Pesticides requires knotweed to be listed on the herbicide label as a target species for a specific application method.
§ A permit from the Division of Pesticides must be obtained prior to applying herbicide. Application of herbicide must be consistent with herbicide label and carried out by a licensed applicator.
§ Currently, the Division of Pesticides allows only cut stem treatments along public road rights-of-way during the period of green foliage.
§ Applying herbicide to the right-of-way between June 1st and October 15th requires going through a public notification process to obtain a permit. However, cut stem treatments do not require public notification.
§ Avoid herbicide drift and spillage to minimize impacts to non-target species.

Knotweed Control Option #2: Mechanical Control
If herbicide treatment is not an option, cutting is sometimes successful in eradicating knotweed, but only with small, young populations, and only when done repeatedly (at least 4 times each growing season) for several years. Cutting by hand with a scythe or loppers is preferable to mowing. Cut material should be destroyed and all equipment should be cleaned prior to leaving the site.

Purple Loosestrife

Loosestrife BMP #1: Any treatment or control of loosestrife should take place prior to seed maturation (early August). A mature loosestrife plant can produce more than 2 million seeds.

Loosestrife BMP #2: Do not mow loosestrife if it can be avoided. Mowing loosestrife creates small stem fragments that can be spread by the mowing equipment or moving water. These fragments can sprout and start new populations of loosestrife.

Loosestrife BMP #3: If excavation will occur in areas containing purple loosestrife, one or more of the following methods must be used to avoid spreading viable plant material:
a) Treat all loosestrife stems with herbicide. This control method should be carried out at least two years prior to excavation in order to allow time to perform an adequate number of herbicide treatments to kill the entire root system.

b) Excavate as needed and spread all material containing roots and stems on an impervious surface. Care must be taken not to spread plant material during excavation and transport. Root material should be broken up as much as possible to promote a faster drying time. Once material has completely dried out, it is nonviable and can be used or disposed of on or off site.
c) Excavated material can be buried on or off site at least three feet below grade.

Loosestrife Control Option #1: Mechanical Control
Cutting or pulling by hand can be effective in eradicating small, young populations. However, this treatment must be continued for several years and any disturbed soil must be stabilized. Any material that is cut or pulled must be rendered non-viable. Both stem and root fragments can sprout new plants.

Loosestrife Control Option #2: Biological Control
Biological control measures have been developed for loosestrife and consist of leaf-feeding and root-feeding beetles. This control method is best for large, dense populations. More information about this option can be obtained from the NHDOT Bureau of Environment or the NH Department of Agriculture.

Loosestrife Control Option #3: Chemical Control
Herbicide can be applied in late July. The selected herbicide must be approved for use in wetlands. Treatments will likely be required for at least two consecutive years, regardless of the method used.
Effective herbicide treatments:
a) Foliar spray
b) Cut stem

Important considerations:
§ Presently, the NH Department of Agriculture Division of Pesticides requires loosestrife to be listed on the herbicide label as a target species for a specific application method.
§ A permit from the Division of Pesticides must be obtained prior to applying herbicide. Application of herbicide must be consistent with herbicide label and carried out by a licensed applicator.
§ Currently, the Division of Pesticides allows only cut stem treatments along public road rights-of-way during the period of green foliage.
§ Applying herbicide to the right-of-way between June 1st and October 15th requires going through a public notification process to obtain a permit. However, cut stem treatments do not require public notification.
§ Avoid herbicide drift and spillage to minimize impacts to non-target species.

Phragmites

Phragmites BMP #1: Do not mow phragmites if it can be avoided. Phragmites spreads vigorously by vegetative reproduction. Mowing phragmites creates small stem fragments that can be spread by the mowing equipment or moving water. These fragments can sprout and start new populations.

Phragmites BMP #2: Cutting by any method, when done at the wrong time, can increase stand density. Cutting should be timed to coincide with tasseling (when flowers begin to develop at the top of stem – late July/early August). This is when most of the plant's food reserves are aboveground.

Phragmites BMP #3: If excavation will occur in areas containing phragmites, one or more of the following methods must be used to avoid spreading viable plant material:
a) Treat all phragmites stems with herbicide. This control method should be carried out at least two years prior to excavation in order to allow time to perform an adequate number of herbicide treatments to kill the entire root system.
b) Excavate as needed and spread all material containing roots and stems on an impervious surface. Care must be taken not to spread plant material during excavation and transport. Root material should be broken up as much as possible to promote a faster drying time. Once material has completely dried out, it is non-viable and can be used or disposed of on or off site.
c) Excavated material can be buried on or off site at least three feet below grade.

Phragmites Control Option #1: Mechanical Control
Cutting by hand, pulling, or digging can be effective in eradicating small, new populations. These methods should be used in late July or early August when the plants are close to or in tasseling stage. This treatment must be continued for several years and any disturbed soil must be stabilized. Any material that is removed must be rendered non-viable. Both stem and root fragments can sprout into new plants.

Phragmites Control Option #2: Chemical Control
Herbicide can be applied in late summer (after tasseling). The selected herbicide must be approved for use in wetlands. Treatments will likely be required for at least two consecutive years, regardless of the method used.
Effective herbicide treatments:
a) Foliar spray
b) Stem injection

Important considerations:
Presently, the NH Department of Agriculture Division of Pesticides requires phragmites to be listed on the herbicide label as a target species for a specific application method.
A permit from the Division of Pesticides must be obtained prior to applying herbicide. Application of herbicide must be consistent with herbicide label and carried out by a licensed applicator.
Currently, the Division of Pesticides allows only cut stem treatments along public road rights-of-way during the period of green foliage.
Applying herbicide to the right-of-way between June 1st and October 15th requires going through a public notification process to obtain a permit. However, cut stem treatments do not require public notification.
Avoid herbicide drift and spillage to minimize impacts to non-target species.

**FOR APPROVAL ONLY
NOT FOR CONSTRUCTION**

PLAN SIZE:
FULL SIZE PLANS ARE 24x36
11x17 ARE APPROXIMATE HALF SCALES

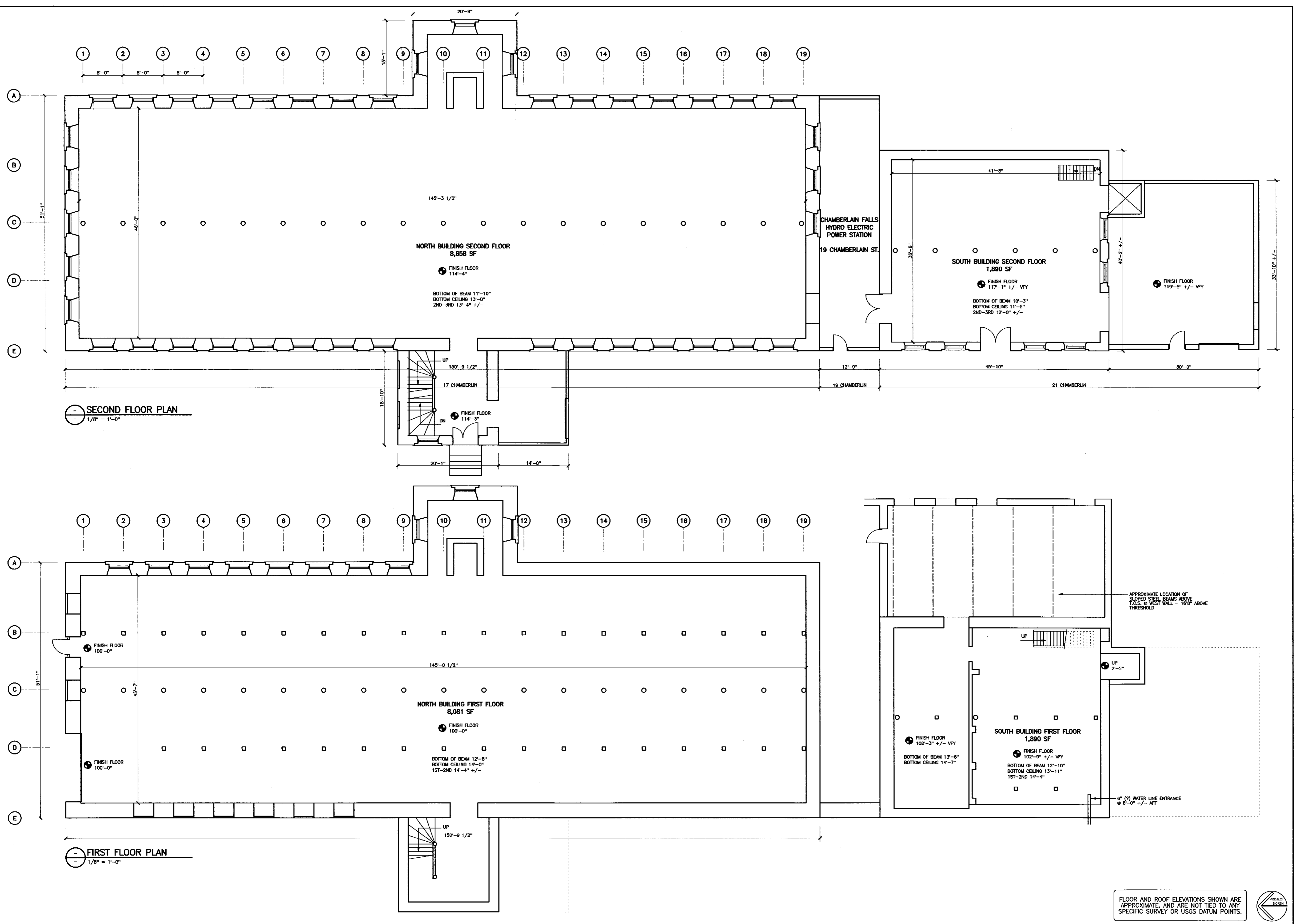
OWNER:
**MCKENAN
PROPERTIES, LLC**
100 CARL DRIVE
UNIT #8
MANCHESTER, NH. 03103

APPLICANT:
**GEORGES
REALTY, LLC**
c/o WIL GEORGES
100 CARL DRIVE, 11a
MANCHESTER, NH. 03103

**ECKMAN
Engineering, LLC**
1950 Lafayette Road Unit 210, PO Box 8025
Portsmouth, New Hampshire 03802
Phone: (603) 433-1354
Fax: (603) 433-2367

No.	DESCRIPTION	BY	DATE

TOWN	GREENVILLE, NEW HAMPSHIRE	BRIDGE NO.	----
FEDERAL PROJECT	----	NHDOT PROJECT	N/A
LOCATION	TOWN OF GREENVILLE TAX MAP 5, LOTS 32 & 32-1 OLD MILL, CHAMBERLIN ST., GREENVILLE, HILLSBOROUGH, NH		
DETAILS (BMP'S FOR INVASIVE SPECIES)			
DESIGNED	SRP	BY DATE	CHECKED
		10/22	DEE 11/22
DRAWN	JJM	BY DATE	CHECKED
		10/22	DEE 11/22
TRACED			
QUANTITIES			
REVIEWED BY:		NHDOT PROJ. NO.	EE PROJ. NO.
		NA	22-105
			DWG FILE
			22-105_ENG
			D-7



PROPOSED IMPROVEMENTS AT:
17 & 21 CHAMBERLIN STREET
 GREENVILLE, NH 03048

EXISTING
 FIRST and
 SECOND
 FLOOR PLANS
 @ 1/8" = 1'-0"

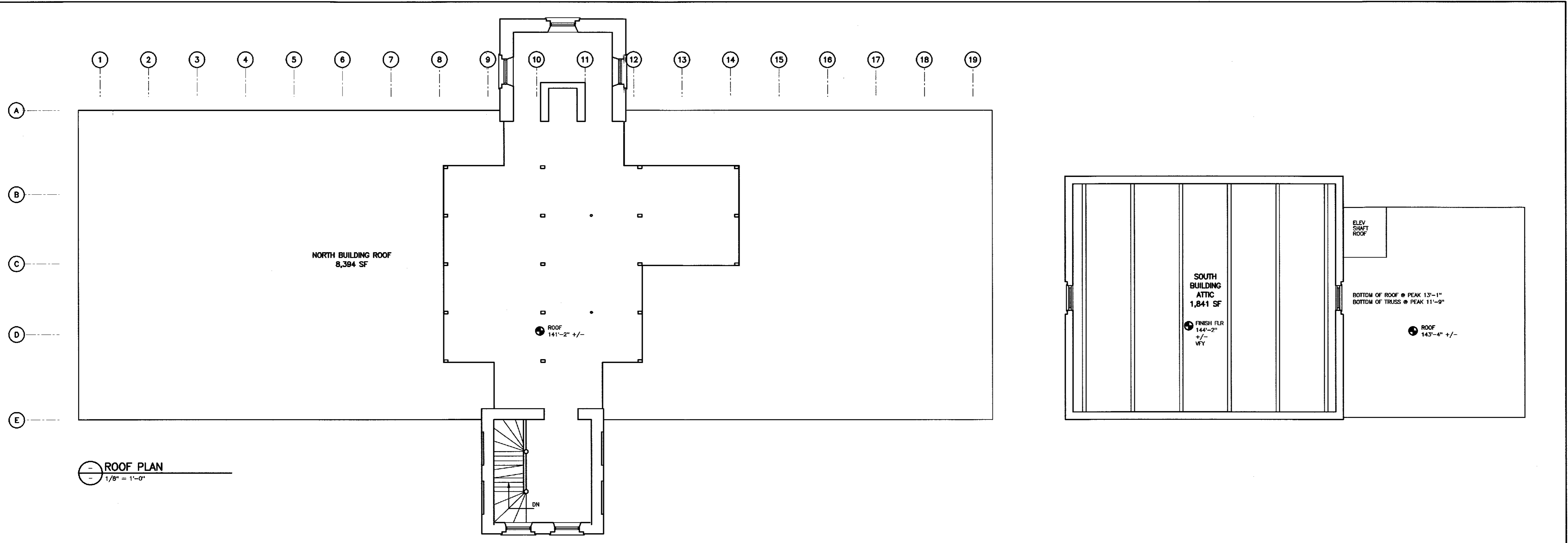
DATE: OCT. 10, 2022
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 EX1-2

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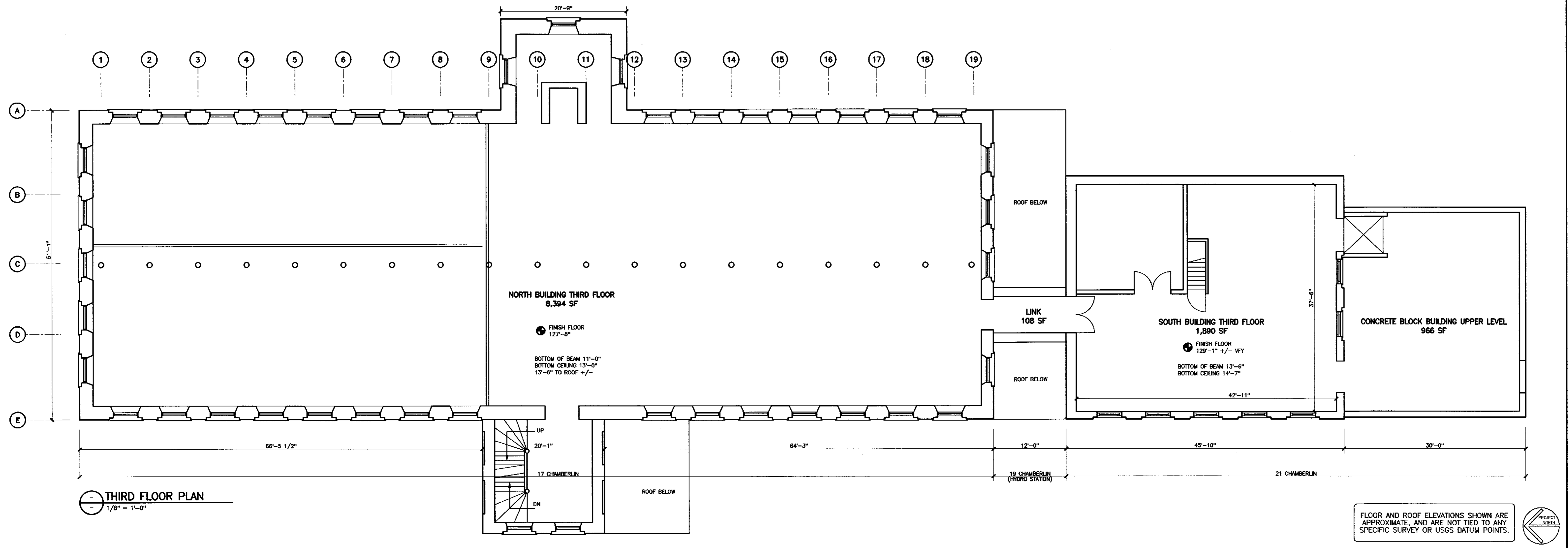
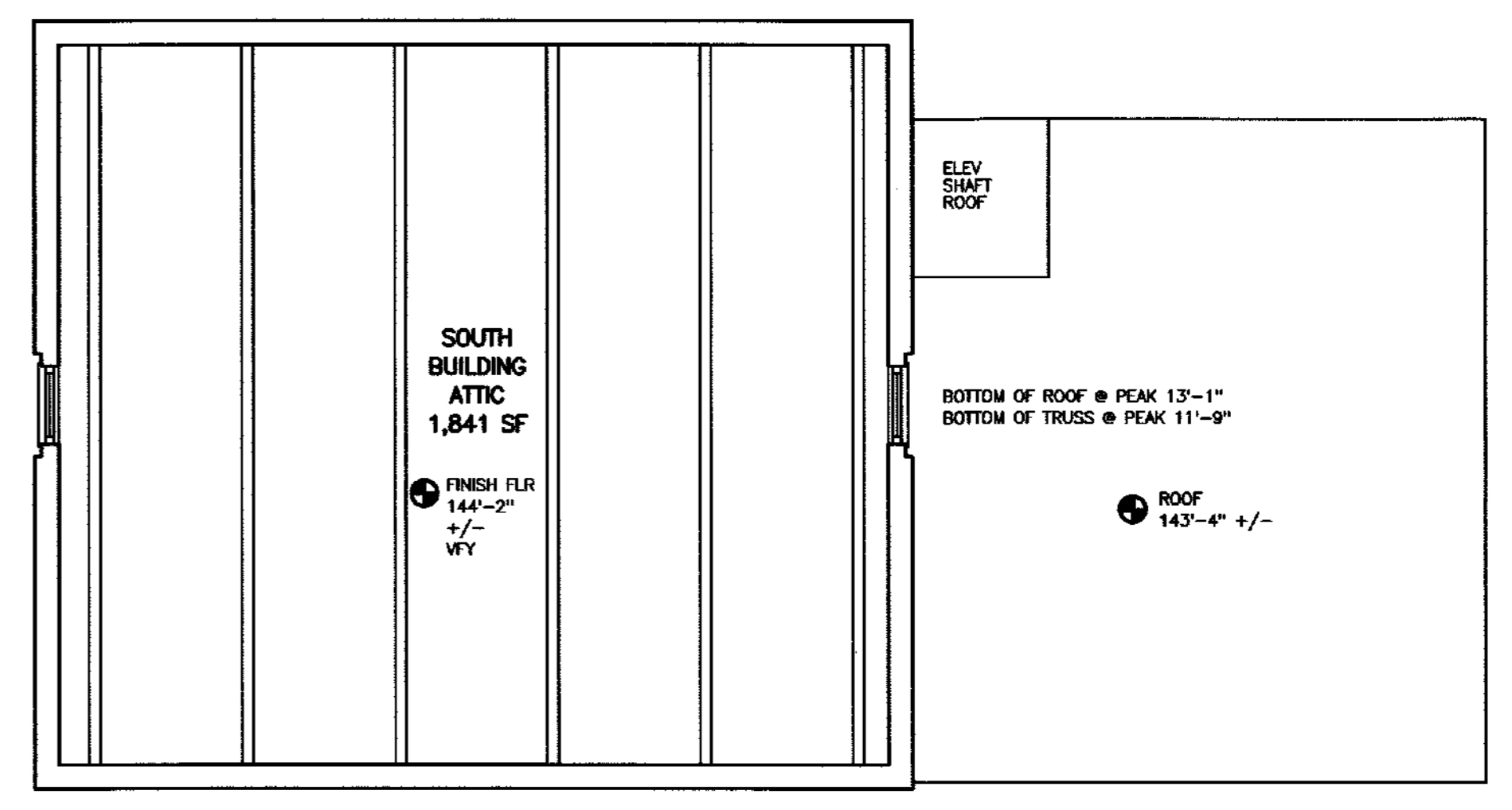
EX 1ST
 EX 2ND

FLOOR AND ROOF ELEVATIONS SHOWN ARE
 APPROXIMATE, AND ARE NOT TIED TO ANY
 SPECIFIC SURVEY OR UGSS DATUM POINTS.





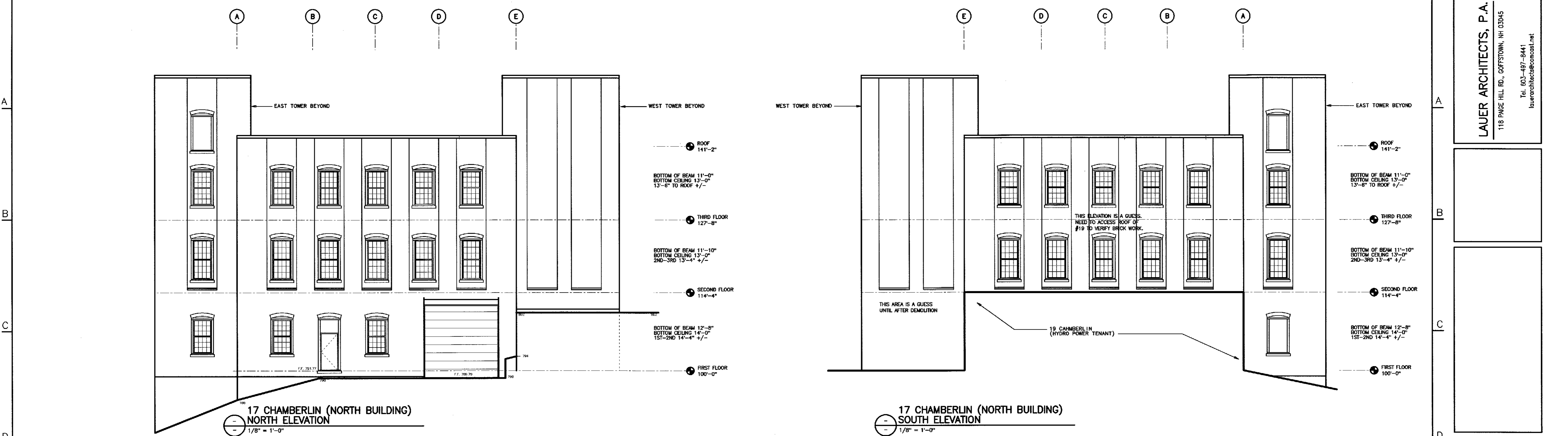
ROOF PLAN
1/8" = 1'-0"



THIRD FLOOR PLAN
1/8" = 1'-0"

FLOOR AND ROOF ELEVATIONS SHOWN ARE APPROXIMATE, AND ARE NOT TIED TO ANY SPECIFIC SURVEY OR USGS DATUM POINTS.





LAUER ARCHITECTS, P.A.
118 PAGE HILL RD., GOFFSTOWN, NH 03045
Tel. 603-497-8441
lauerarchitects@comcast.net

PROPOSED IMPROVEMENTS AT:
17 & 21 CHAMBERLIN STREET
GREENVILLE, NH 03048

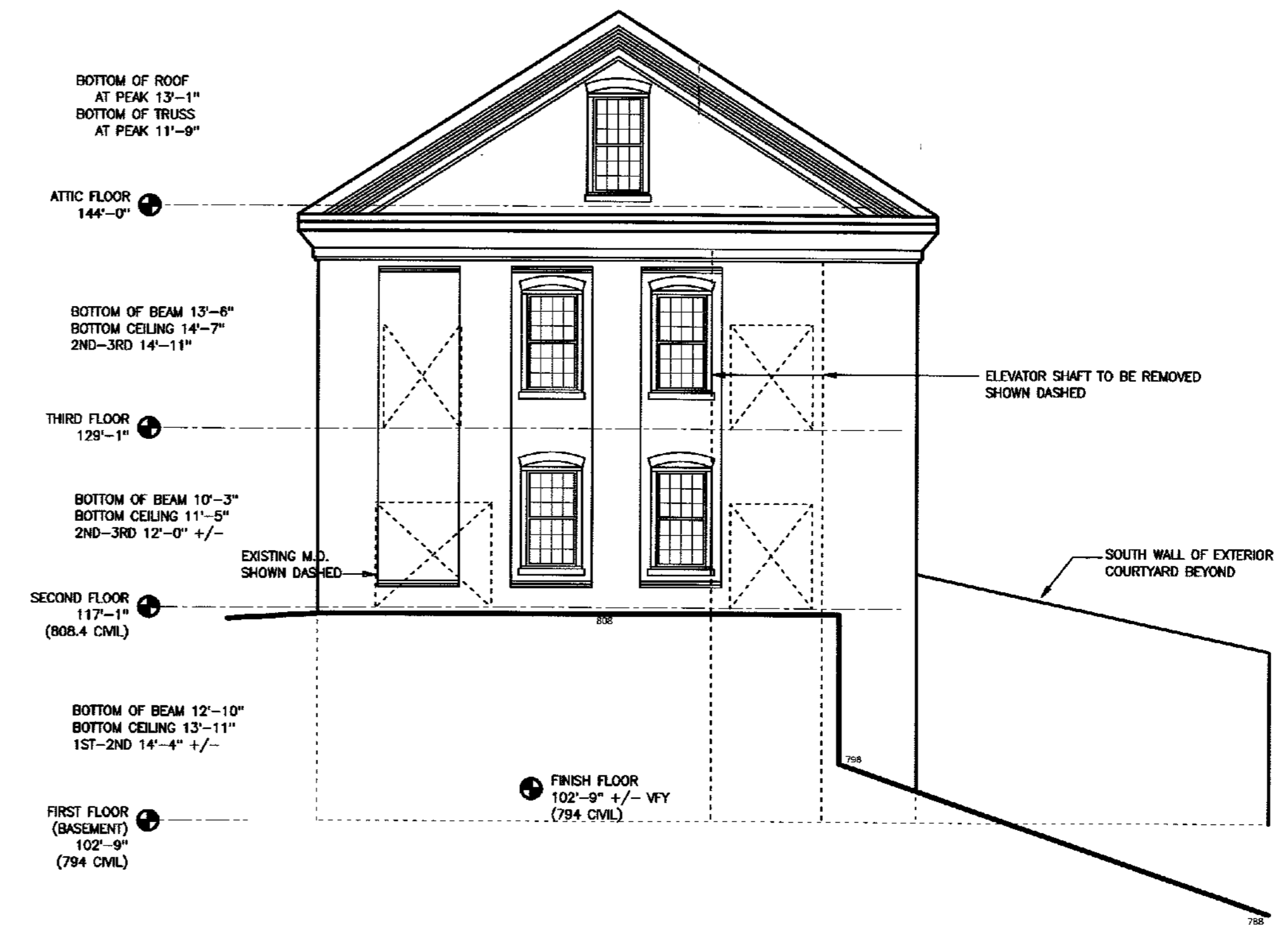
EXISTING EXTERIOR ELEVATIONS @ 1/8" = 1'-0"

DATE: OCT. 10, 2022
FILE: 2229\GEORGES\ EXELEV1

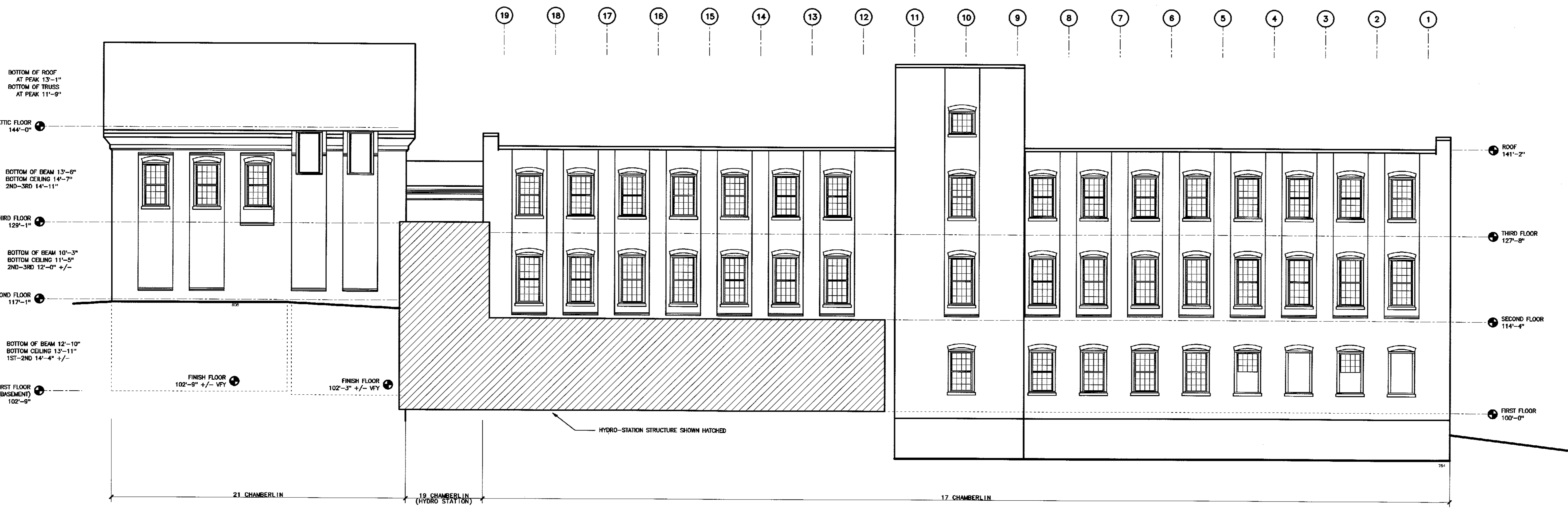
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EX ELEV 1

FLOOR AND ROOF ELEVATIONS SHOWN ARE APPROXIMATE, AND ARE NOT TIED TO ANY SPECIFIC SURVEY OR USGS DATUM POINTS.



21 CHAMBERLIN (SOUTH BUILDING)
SOUTH ELEVATION
 1/8" = 1'-0"



17 & 21 CHAMBERLIN
EAST ELEVATION
 1/8" = 1'-0"

FLOOR AND ROOF ELEVATIONS SHOWN ARE APPROXIMATE, AND ARE NOT TIED TO ANY SPECIFIC SURVEY OR USGS DATUM POINTS.

PROPOSED IMPROVEMENTS AT:

17 & 21 CHAMBERLIN STREET

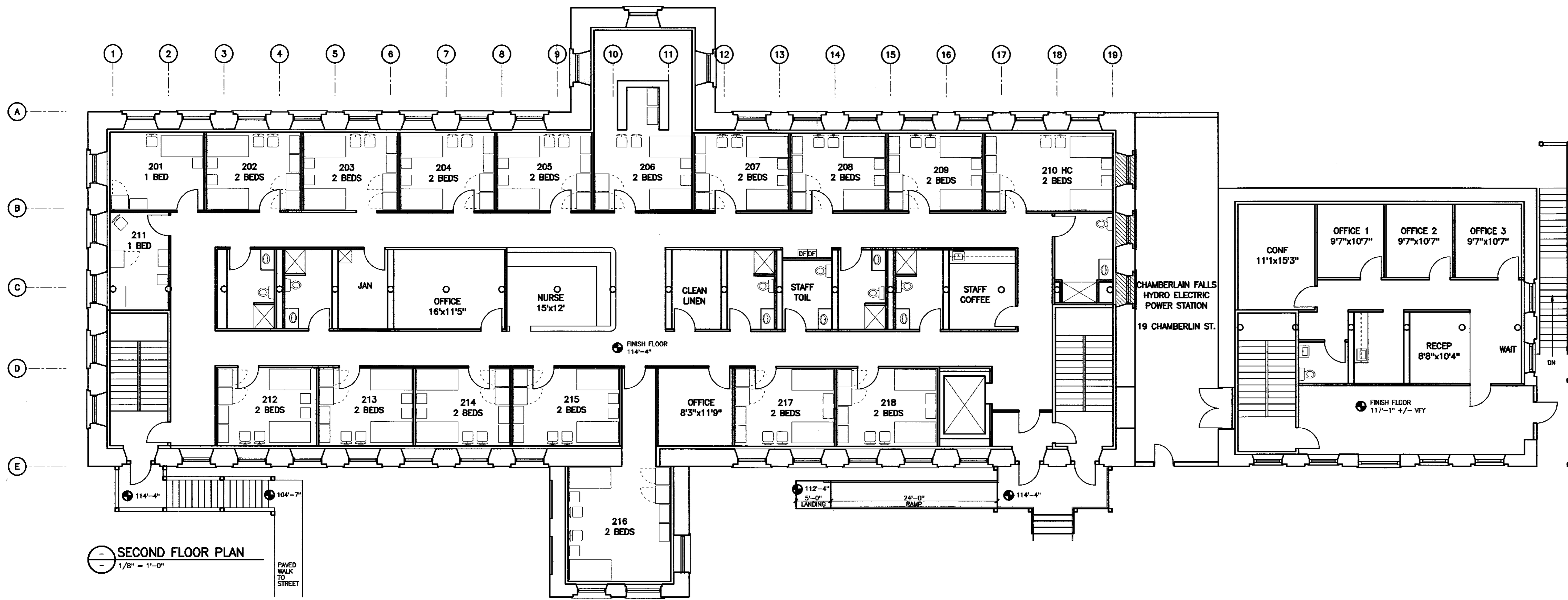
GREENVILLE, NH 03048

EXISTING EXTERIOR ELEVATIONS
 @ 1/8" = 1'-0"

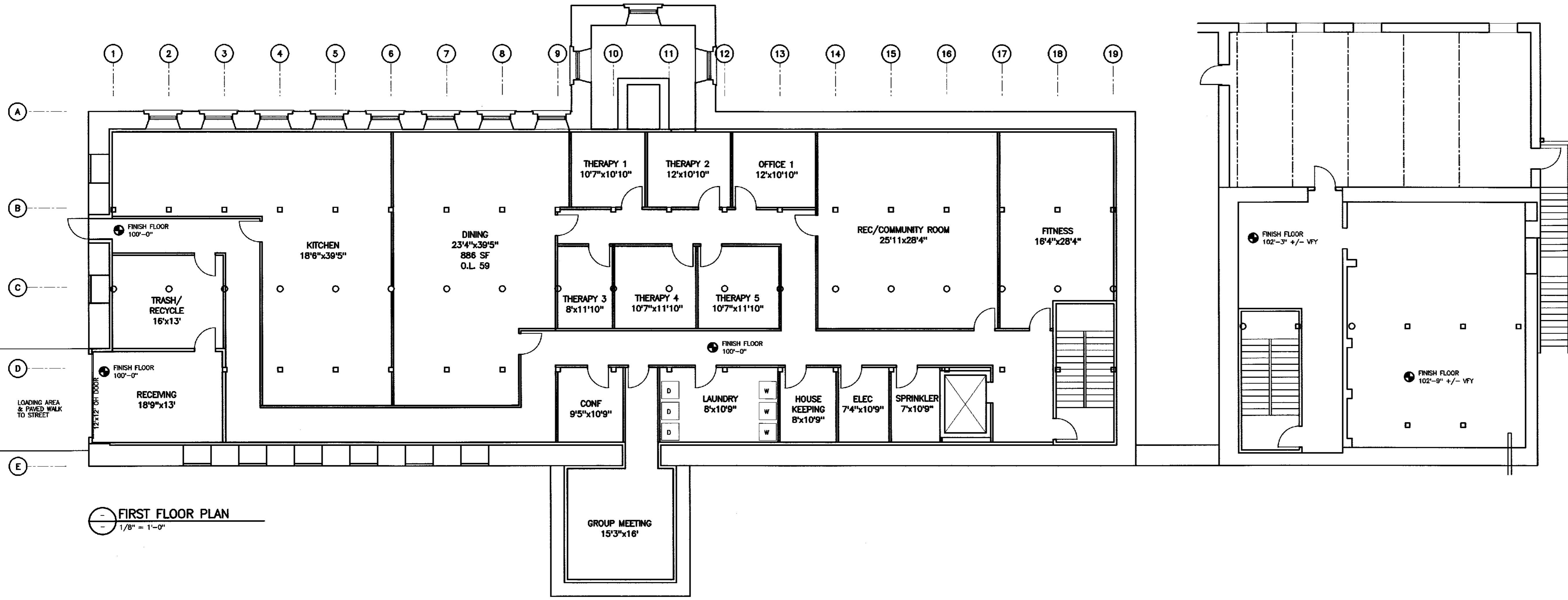
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EX ELEV 2



SECOND FLOOR PLAN
1/8" = 1'-0"



FIRST FLOOR PLAN
1/8" = 1'-0"

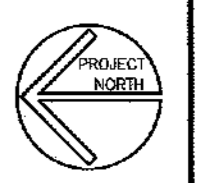
PROPOSED IMPROVEMENTS AT:
17 & 21 CHAMBERLIN STREET
GREENVILLE, NH 03048

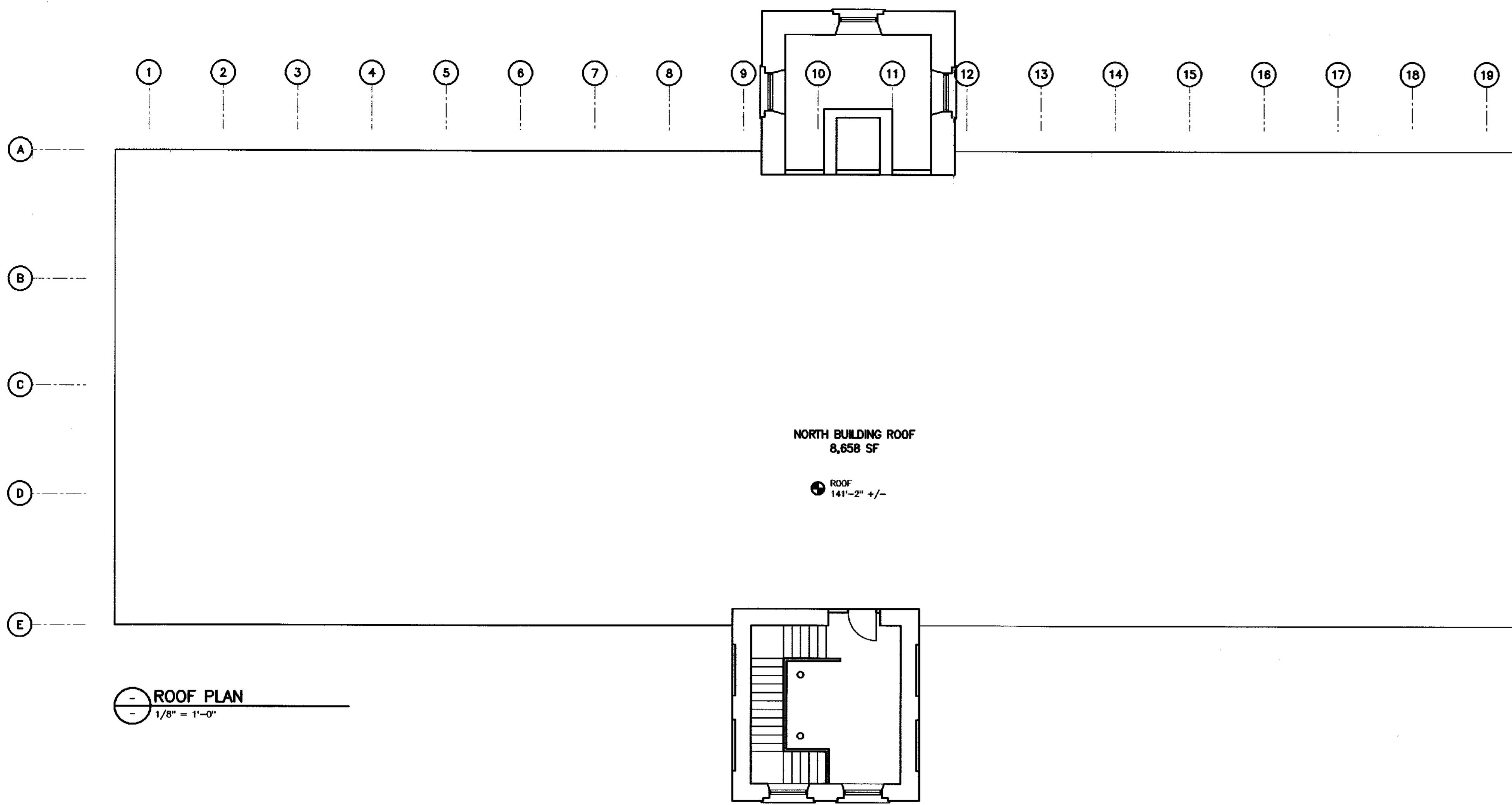
FIRST and SECOND FLOOR PLANS @ 1/8" = 1'-0"

DATE: OCT. 27, 2022
FILE: 2229\GEORGES\ PB1-2

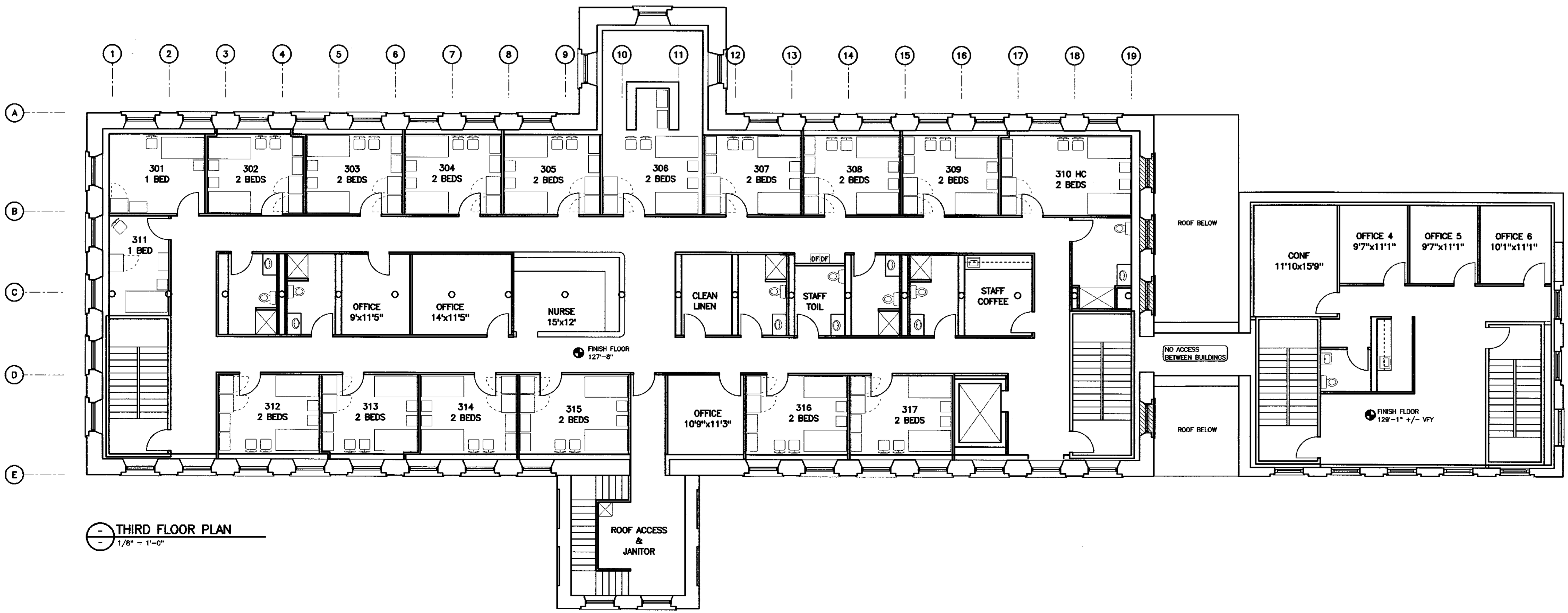
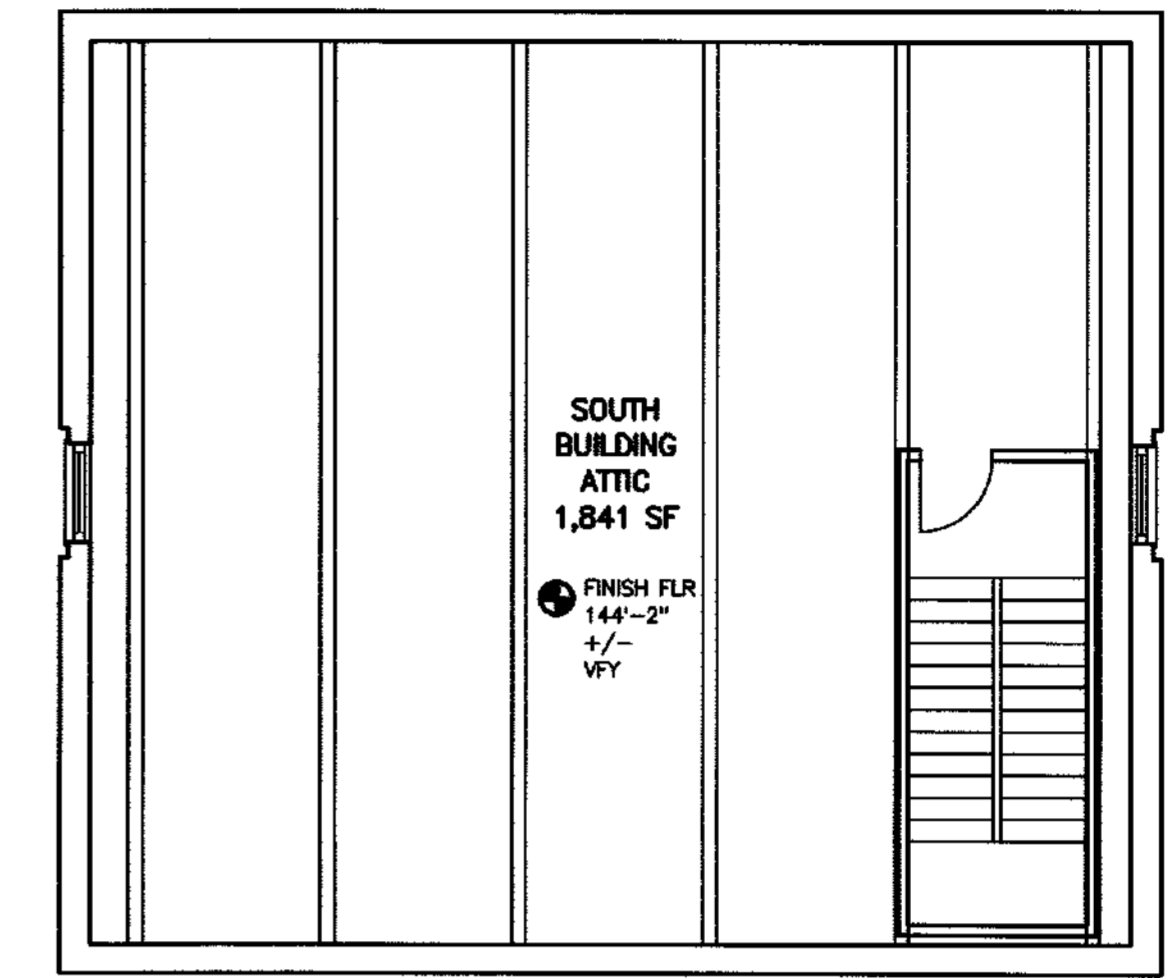
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1st & 2nd





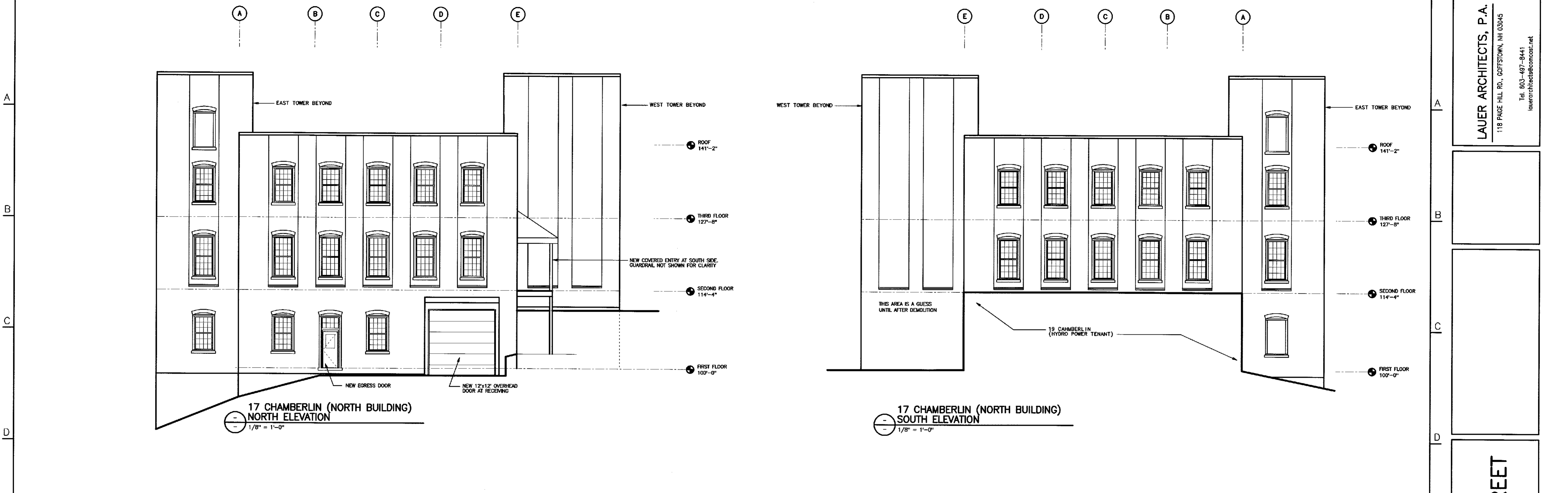
ROOF PLAN
1/8" = 1'-0"



THIRD FLOOR PLAN
1/8" = 1'-0"



0 1 2 3 4 5 6 7 8 9 10 11 12



17 CHAMBERLIN (NORTH BUILDING)
NORTH ELEVATION
1/8" = 1'-0"

17 CHAMBERLIN (NORTH BUILDING)
SOUTH ELEVATION
1/8" = 1'-0"



17 & 21 CHAMBERLIN
WEST ELEVATION
1/8" = 1'-0"

FLOOR AND ROOF ELEVATIONS SHOWN ARE APPROXIMATE, AND ARE NOT TIED TO ANY SPECIFIC SURVEY OR USGS DATUM POINTS.

LAUER ARCHITECTS, P.A.
118 FAIR HILL RD., COFFSTOWN, NH 03045
Tel. 803-497-8441
lauerarchitects@comcast.net

PROPOSED IMPROVEMENTS AT:
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EXTERIOR ELEVATIONS
@ 1/8" = 1'-0"

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ELEV 1

A

B

C

D

A

B

C

D

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118 PAGE HILL RD., GOFFSTOWN, NH 03045
Tel. 603-497-9441
lauerarchitects@comcast.net



21 CHAMBERLIN (SOUTH BUILDING)
SOUTH ELEVATION
1/8" = 1'-0"

E

F

G

H

E

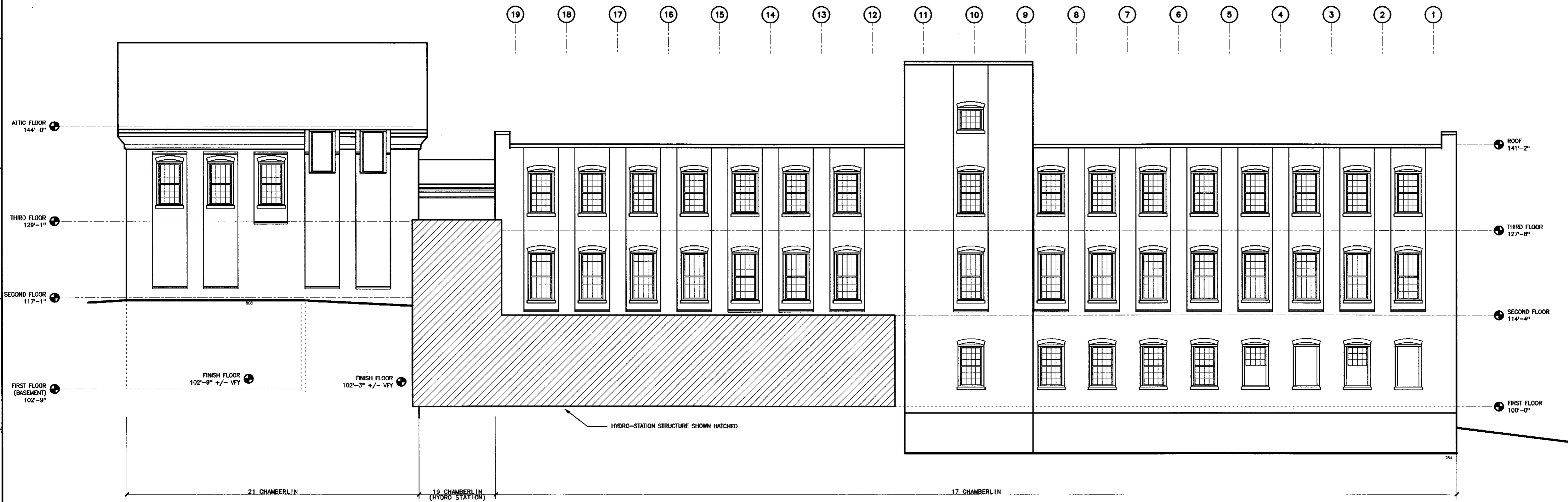
F

G

H

PROPOSED IMPROVEMENTS AT:

17 & 21 CHAMBERLIN STREET
GREENVILLE, NH 03048



17 & 21 CHAMBERLIN
EAST ELEVATION
1/8" = 1'-0"

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EXTERIOR ELEVATIONS @ 1/8" = 1'-0"

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ELEV 2