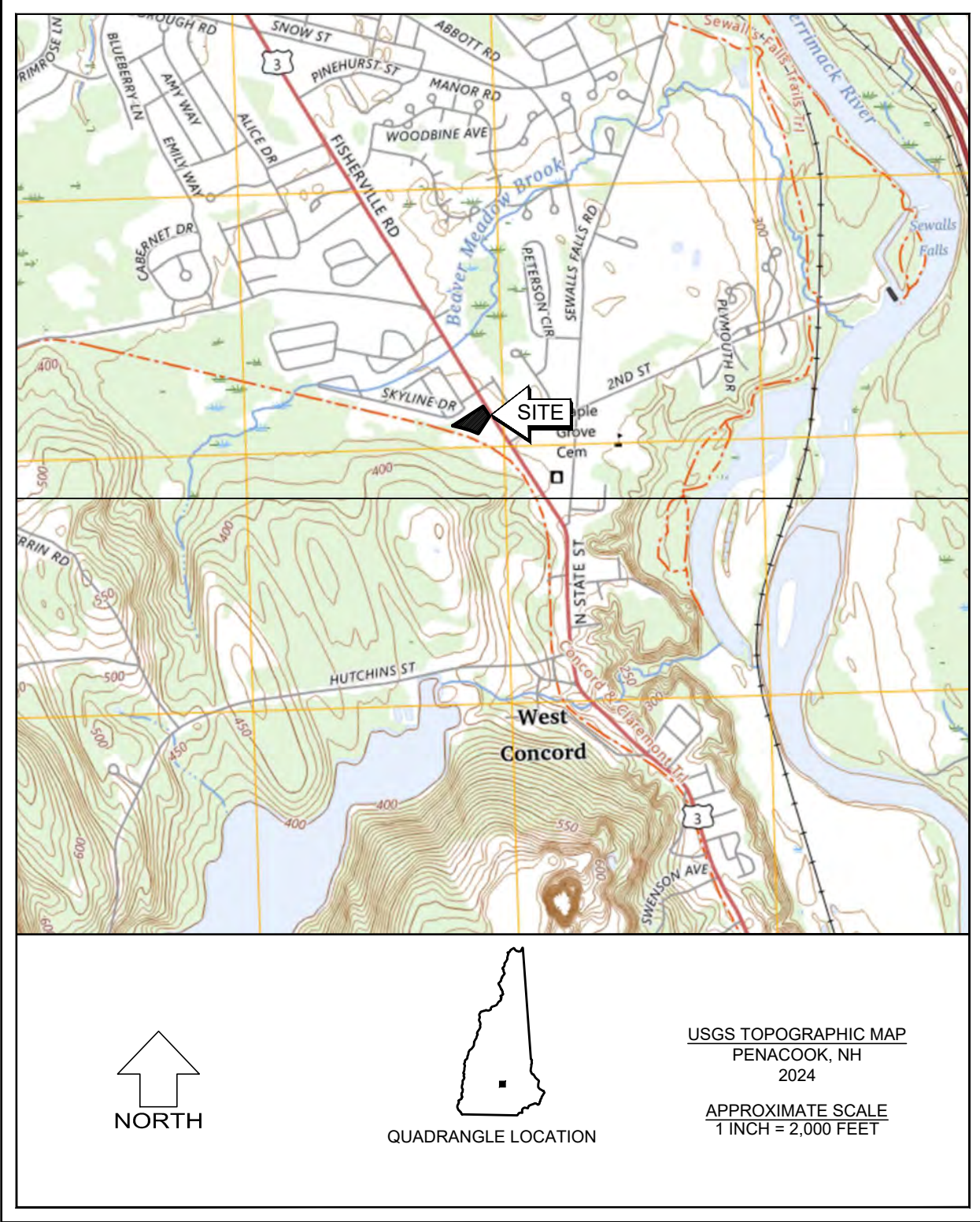
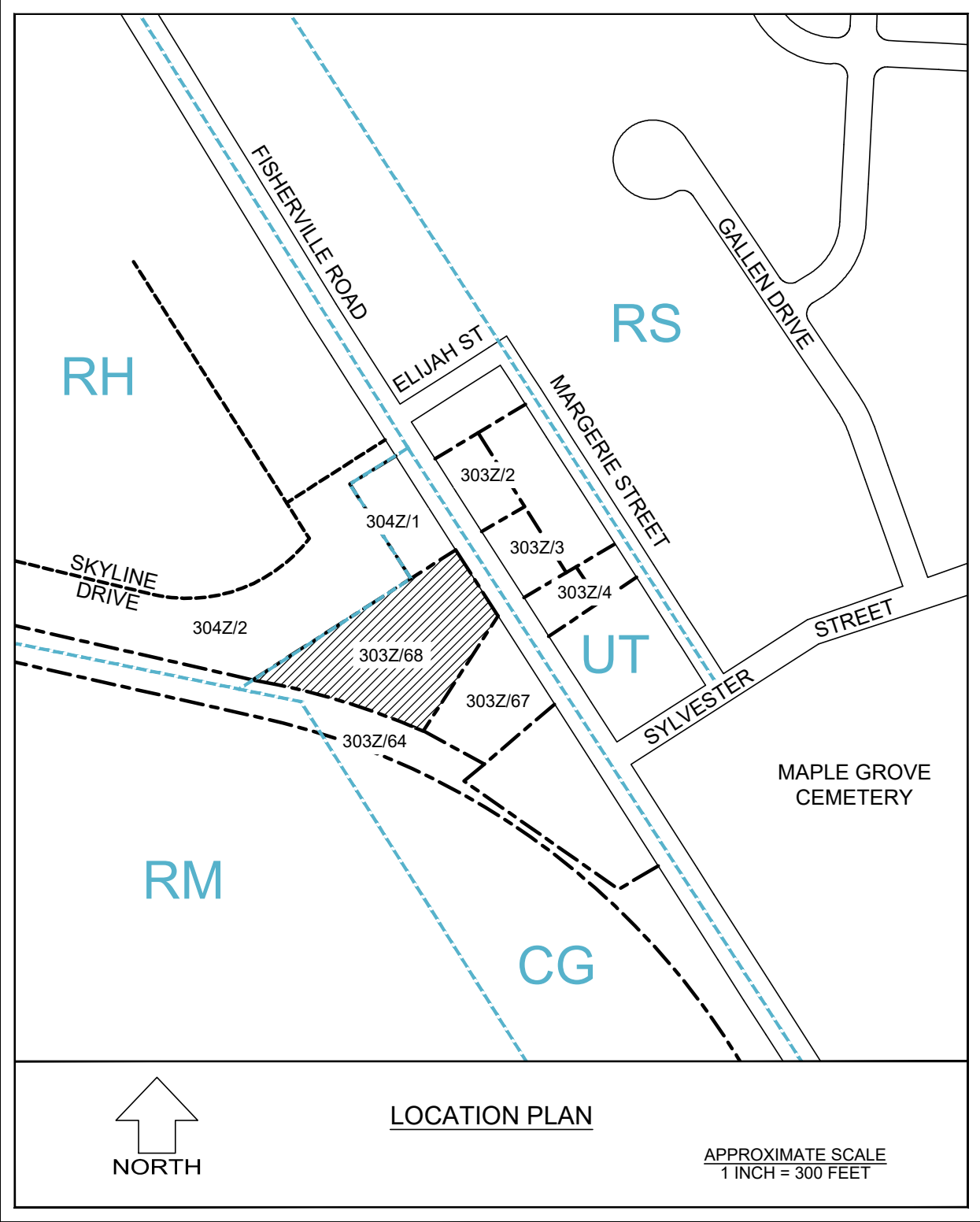


CATCH NEIGHBORHOOD HOUSING

43 FISHERVILLE ROAD CONCORD, NEW HAMPSHIRE

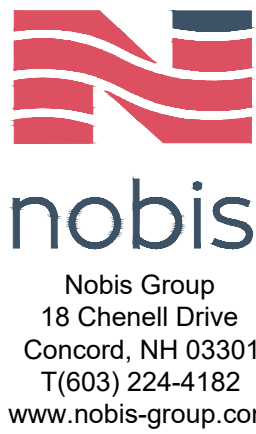
SITE ENGINEER
NOBIS GROUP - CONCORD, NH
ARCHITECT
WARRENSTREET ARCHITECTS, INC. - CONCORD, NH
SURVEYOR
RICHARD D. BARTLETT & ASSOCIATES, LLC - CONCORD, NH
LANDSCAPE ARCHITECT
WARRENSTREET ARCHITECTS, INC. - CONCORD, NH
SITE LIGHTING
VISIBLE LIGHT INCORPORATED - HAMPTON, NH
TRAFFIC ENGINEER
GREENMAN-PEDERSEN, INC. - BEDFORD, NH



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JUNE 12, 2026



NOBIS PROJECT NO. 101148.000

LEGEND

EXISTING	PROPOSED	
---	---	SUBJECT PROPERTY LINE
---	---	OTHER PROPERTY LINE
---	---	SETBACKS
---	---	EASEMENT
=====	=====	STONE WALL
---	---	RETAINING WALL
---	---	EDGE OF WETLAND
---	---	STREAM / RIVER
=====	=====	TREE LINE
○	○	CHAIN LINK FENCE
□	□	STOCKADE FENCE
---	---	GUARDRAIL (STEEL)
---	---	GUARDRAIL (WOOD)
---	---	CENTERLINE
---	---	EDGE OF GRAVEL
---	---	EDGE OF PAVEMENT
SGC	SGC	SLOPED GRANITE CURB
VGC	VGC	VERTICAL GRANITE CURB
VCC	VCC	VERTICAL CONCRETE CURB
BCC	BCC	BITUMINOUS CONCRETE CURB
CC	CC	CONCRETE CURB
CCB	CCB	CAPE COD BERM
TD	TD	TIP DOWN
100	100	MAJOR CONTOUR
98	98	MINOR CONTOUR
D	D	DRAIN LINE
RD	RD	ROOF DRAIN
UD	UD	UNDER DRAIN
FD	FD	FOUNDATION DRAIN
>	>	SWALE FLOW DIRECTION
X	X	SILT FENCE / WATTLE
OHW	OHW	OVERHEAD UTILITY WIRE
UGE	UGE	UNDERGROUND ELECTRIC
T	T	UNDERGROUND TELECOM
S	S	SANITARY SEWER LINE
SS	SS	SANITARY SEWER SERVICE
FM	FM	SANITARY SEWER FORCE MAIN
W	W	WATER LINE
WS	WS	WATER SERVICE
G	G	GAS LINE
ST	ST	STEAM LINE
FO	FO	FIBER OPTIC LINE
---	---	ZONING BOUNDARY LINE
---	---	FLOOD ZONE LINE

EXISTING	PROPOSED	
⊕	⊕	DRAIN MANHOLE
⊕	⊕	CATCH BASIN
⊕	⊕	UTILITY POLE
⊕	⊕	PAD MOUNTED TRANSFORMER
⊕	⊕	SANITARY SEWER MANHOLE
⊕	⊕	SANITARY SEWER CLEAN-OUT
⊕	⊕	HYDRANT
⊕	⊕	WATER VALVE
⊕	⊕	WATER SHUT OFF
⊕	⊕	WATER SUPPLY WELL
⊕	⊕	GAS SHUT OFF
⊕	⊕	GAS METER
⊕	⊕	SPOT GRADE
⊕	⊕	CURB SPOT GRADE
⊕	⊕	SIGN POST
⊕	⊕	LIGHT POLE
⊕	⊕	TREE
⊕	⊕	CONCRETE
⊕	⊕	GRAVEL
⊕	⊕	RIP RAP
⊕	⊕	WETLAND
⊕	⊕	WETLAND IMPACT
⊕	⊕	FLOW DIRECTION
⊕	⊕	STONE CHECK DAM
⊕	⊕	INLET PROTECTION
⊕	⊕	SLOPE & DIRECTION
⊕	⊕	TEST PIT LOCATION
⊕	⊕	BORING LOCATION
⊕	⊕	MONITORING WELL LOCATION
⊕	⊕	PERC. TEST LOCATION
⊕	⊕	PHOTO LOCATION / DIRECTION
⊕	⊕	MANHOLE
⊕	⊕	TELECOM MANHOLE
⊕	⊕	ELECTRIC MANHOLE
⊕	⊕	STEEP SLOPE

GENERAL NOTES:

- THESE DRAWINGS SHOULD BE REVIEWED IN CONJUNCTION WITH THE ACCOMPANYING DESIGN REPORT TITLED "STORMWATER MANAGEMENT REPORT FOR CATCH NEIGHBORHOOD HOUSING, 43 FISHERVILLE ROAD, CONCORD, NH" DATED JUNE 12, 2026 PREPARED BY NOBIS GROUP.
- EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "EXISTING CONDITIONS PLAT OF THE LAND OF KEVIN F. SEIGEL & GEORGE J. SEIGEL, JR.", DATED APRIL 2025, BY RICHARD D. BARTLETT AND ASSOCIATES, LLC.
- THESE DRAWINGS AND ACCOMPANYING TEXT HAVE BEEN PREPARED FOR CATCH NEIGHBORHOOD HOUSING, FOR REVIEW BY THE CITY OF CONCORD PLANNING BOARD, CODE ENFORCEMENT, GENERAL SERVICES, POLICE, AND FIRE DEPARTMENTS.
- THE CONTRACTOR SHALL OBTAIN COVERAGE UNDER EPA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FOR CONSTRUCTION ACTIVITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND IMPLEMENTING AN ENVIRONMENTAL PROTECTION AGENCY (EPA) STORM WATER POLLUTION PREVENTION PLAN PRIOR TO THE START OF CONSTRUCTION AND DURING CONSTRUCTION ON-SITE IN ACCORDANCE WITH THE EPA REGULATIONS UNDER THE CLEAN WATER ACT.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CONCORD'S CONSTRUCTION STANDARDS AND DETAILS (LATEST EDITION), AND CITY STANDARDS SHALL TAKE PRECEDENCE IN CASE OF ANY DETAILS OR PLANS IN CONFLICT.
- ALL UTILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH SECTION 25.02(1) OF THE SITE PLAN REGULATIONS.
- UPON COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS TO THE ENGINEERING SERVICES DIVISION PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- THE CONTRACTOR SHALL SET UP A PRECONSTRUCTION MEETING WITH THE ENGINEERING SERVICES DIVISION TO DISCUSS CONSTRUCTION REQUIREMENTS, SITE INSPECTIONS, ASSOCIATED FEES, SCHEDULES, ETC.
- THE CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT FROM THE CODE ADMINISTRATION DIVISION FOR THE REMOVAL OF THE EXISTING BUILDINGS.
- THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE ENGINEERING SERVICES DIVISION FOR WORK WITHIN THE ROW.
- THE CONTRACTOR SHALL OBTAIN UTILITY CONNECTION PERMITS FROM THE ENGINEERING SERVICES DIVISION FOR THE PROPOSED WATER SERVICE, SEWER SERVICE, AND STORM DRAIN CONNECTION(S). INDIVIDUAL PERMITS WILL BE REQUIRED FOR EACH CONNECTION.
- THE CONTRACTOR SHALL OBTAIN A DRIVEWAY PERMIT FROM THE ENGINEERING SERVICES DIVISION FOR THE PROPOSED DRIVEWAY.
- A TEMPORARY TRAFFIC CONTROL PLAN (TTCP) WILL BE REQUIRED FOR ALL WORK IN AND ADJACENT TO THE CITY ROW THAT WILL REQUIRE LANE CLOSURES. THE TTCP SHOULD BE SUBMITTED TO THE ESD FOR REVIEW AND APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO THE CONSTRUCTION ACTIVITIES THAT REQUIRE THE LANE CLOSURE(S).

CONSTRUCTION SEQUENCE:

- CONSTRUCT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY EARTH MOVING OPERATIONS. INSPECT EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND WITHIN 24 HOURS OF ANY SIGNIFICANT RAINFALL EVENT (1/2" OF RAIN OR MORE). PERFORM ANY NEEDED MAINTENANCE AND STABILIZATION AS NEEDED.
- DISTURBANCES OF AREAS SHALL BE MINIMIZED. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING THE GROWING SEASON. AREAS WHICH WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE SHALL BE TEMPORARILY SEEDED AND MULCHED. ALL AREAS SHALL BE STABILIZED WITH SEED MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE AND PRIOR TO THE END OF THE GROWING SEASON.
- PERFORM DEMOLITION OF EXISTING SITE FEATURES AS SHOWN ON DEMOLITION PLAN.
- PERFORM CLEARING AND GRUBBING TO LIMITS SHOWN ON DEMOLITION PLAN.
- EXCAVATE AND GRADE, THEN INSTALL LOAM, SEED, AND EROSION CONTROL MATTING TO STABILIZE RAINGARDEN.
- REMOVE AND TEMPORARILY STOCKPILE LOAM AND TOPSOIL FOR REUSE. IF NEEDED, ON SITE. SEED AND/OR MULCH STOCKPILES AND ENCIRCLE WITH SILT FENCE.
- CONDUCT ALL UNDERGROUND UTILITY STRUCTURE AND PIPING INSTALLATION, BACKFILL, AND COMPACTING.
- CONSTRUCT BUILDING FOUNDATION.
- PLACE AND COMPACT NEW GRAVEL COURSES IN THE PARKING, SIDEWALK, AND ACCESS DRIVE AREAS.
- PLACE, GRADE, AND STABILIZE DISTURBED AREAS WITH TEMPORARY SEEDED AND MULCHING.
- BEGIN CONSTRUCTION OF BUILDING AND REMAINING SITE WORK.
- PLACE PAVEMENT COURSES, SIDEWALKS, AND CURBING.
- ALL CUT AND FILL SLOPES SHALL BE STABILIZED, LOAMED, SEEDED, AND MULCHED.
- COMPLETE PERMANENT SEEDED AND LANDSCAPING IN ACCORDANCE WITH THE LANDSCAPE DESIGN AND DETAILS.
- SWEEP COMPLETED PAVEMENT AND CLEAN OUT CATCH BASINS AND DRAINAGE PIPES DURING CONSTRUCTION CLOSE-OUT PROCEDURES. PROPERLY DISPOSE OF COLLECTED SEDIMENT AND DEBRIS.
- REMOVE TEMPORARY EROSION CONTROL MEASURES AND PROPERLY DISPOSE OF FOLLOWING CONSTRUCTION AND ONCE FULL GROUND COVER HAS BEEN ESTABLISHED.

EROSION CONTROL NOTES:

CATCH BASINS: CARE SHOULD BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT ENTER CATCH BASINS DURING EXCAVATION FOR PIPE TRENCHES, DITCHES AND SWALES. THE CONTRACTOR SHOULD PLACE NON-WOVEN GEOTEXTILE FABRIC FOR INLET PROTECTION OVER INLETS IN AREAS OF SOIL DISTURBANCE, WHICH ARE SUBJECT TO SEDIMENT CONTAMINATION.

PLACE INLET PROTECTION DEVICES, IN CATCH BASINS AND MAINTAIN UNTIL ALL CONSTRUCTION ACTIVITIES HAVE CEASED AND THE SURROUNDING AREAS ARE WELL VEGETATED.

SEDIMENT TRAPS AND/OR BASINS SHOULD BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL BASINS/PONDS ARE STABILIZED.

ALL SWALES AND PONDS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF INTO THEM.

SCHEDULE OF WORK

THIS WORK IS ANTICIPATED TO BEGIN IN SPRING 2027 WITH A FINAL COMPLETION DATE IN SPRING 2028. NO WINTER EARTH DISTURBANCE IS EXPECTED FOR THIS PROJECT. SHOULD WINTER WORK BE REQUIRED, THIS PLAN AND THE ACCOMPANYING STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MODIFIED ACCORDINGLY.

ADEQUATE MEASURES SHOULD BE TAKEN TO MINIMIZE AIR BORNE DUST PARTICLES ARISING FROM SOIL DISTURBANCE AND CONSTRUCTION.

- * DISTURBANCE OF AREAS SHOULD BE MINIMIZED.
- * NO DISTURBED AREA SHOULD BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING THE GROWING SEASON.
- * PERMANENT EROSION CONTROL FEATURES SHOULD BE INCORPORATED INTO THE PROJECT AT THE EARLIEST PRACTICABLE TIME, AS SPECIFIED ON THE CONTRACT PLANS.
- * WITHIN 14 DAYS OF COMPLETING WORK IN AN AREA, AND PRIOR TO ANTICIPATED RAIN EVENTS, APPLY HAY/STRAW MULCH AND TACKIFIER ON ALL DISTURBED SOIL AREAS. APPLICATION RATES OF 2 TONS OF STRAW OR HAY PER ACRE SHOULD BE USED TO PREVENT EROSION UNTIL VEGETATIVE COVER CAN BE ESTABLISHED. ALTERNATIVELY, APPLY WOOD CHIPS OR GROUND BARK MULCH 2 TO 6 INCHES DEEP AT A RATE OF 10 TO 20 TONS PER ACRE.
- * WHEN EROSION IS LIKELY TO BE A PROBLEM, GRUBBING OPERATION SHOULD BE SCHEDULED AND PERFORMED SUCH THAT GRADING OPERATION AND PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER.
- * AS WORK PROGRESSES, PATCH SEEDING AND MULCHING SHOULD BE DONE AS REQUIRED ON AREAS PREVIOUSLY TREATED TO MAINTAIN OR ESTABLISH PROTECTIVE COVER.
- * REMOVE ACCUMULATED SEDIMENTS AND DEBRIS WHEN SEDIMENT CONTAINMENT DEVICES REACH 33% CAPACITY.

EROSION CONTROL IMPLEMENTATION SCHEDULE

THE FOLLOWING GENERAL SCHEDULE IDENTIFIES THE PROPOSED SOIL EROSION AND SEDIMENT CONTROL AND STORM WATER MANAGEMENT MEASURES THAT ARE TO BE IMPLEMENTED PRIOR TO AND DURING CONSTRUCTION:

- * PERFORM LIMITED GRUBBING, STRIPPING AND SITE GRADING ONLY AS NEEDED TO COMPLETE IMMEDIATE WORK GOALS.
- * BLOCK STORM WATER FLOW AS NECESSARY TO INSTALL ALL STORM WATER STRUCTURES IN THE DRY.
- * INSTALL PERMANENT STORM DRAIN SYSTEM.
- * INSTALL TEMPORARY SOIL STABILIZATION MEASURE INCLUDING SEED, MULCH, FERTILIZER, MATTING, ETC.
- * REDIRECT FLOWS INTO FINISHED STRUCTURES PRIOR TO FILL OPERATIONS.
- * PLACE HUMUS AND CONDUCT PERMANENT SEEDED AND MULCHING OF ALL DISTURBED GROUND.

TEMPORARY STABILIZATION:

EROSION CONTROL MEASURES SHALL BE IMPLEMENTED, AS WRITTEN HEREIN AND AS DEPICTED ON THE ACCOMPANYING PLAN, FROM THE COMMENCEMENT OF CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS COMPLETE:

TEMPORARY GRADING: TEMPORARY GRADING DURING CONSTRUCTION SHOULD BE PERFORMED IN SUCH A MANNER TO FACILITATE MAXIMUM INFILTRATION OF STORMWATER AND MINIMIZE OR ELIMINATE STORMWATER RUNOFF FROM THE SITE.

MULCH: MULCHING WITH LOOSE HAY OR STRAW, AT A RATE OF 2 TONS PER ACRE, SHALL BE DONE IMMEDIATELY AFTER EACH AREA HAS BEEN FINAL GRADED. WHEN SEED FOR EROSION CONTROL IS SOWN PRIOR TO PLACING THE MULCH, THE MULCH SHOULD BE PLACED ON THE SEEDED AREAS WITHIN 48 HOURS AFTER SEEDED.

TACKIFIER: PLACEMENT OF SOIL TACKIFIER HAS PROVEN TO BE AN EFFECTIVE METHOD OF PREVENTING SOIL EROSION AND ADHERING MULCH IN PLACE. THE PLACEMENT OF A SOIL TACKIFIER SHOULD BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND SHOULD BE REAPPLIED AS NECESSARY TO CONTROL AIR BORN DUST AND SOIL, AND MULCH LOSS UNTIL PERMANENT VEGETATION IS ESTABLISHED.

ROAD CLEANING: THE CONTRACTOR SHALL SWEEP ROADS DAILY, OR AS NEEDED TO MAINTAIN CLEAN PAVED SURFACES AT ALL CONSTRUCTION ACCESS/EGRESS POINTS.

DUST CONTROL: THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS NEEDED TO PREVENT AIRBORNE DUST PARTICLES FROM LEAVING THE SITE. DUST CONTROL MEASURES SHALL CONSIST OF USE OF A WATER TRUCK EQUIPPED WITH A SPRAY-BAR THAT DISSIPATES THE WATER EVENLY OVER THE SURFACE.

PERMANENT STABILIZATION: GRASS, TREES, SHRUBS AND MULCHED PLANTING BEDS WILL BE CONSTRUCTED AND MAINTAINED IN LOCATIONS AS SHOWN ON THE DRAWINGS TO STABILIZE AREAS NOT WITHIN THE PARKING LOT/BUILDING FOOTPRINT. THE CONTRACTOR WILL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL FOR ONE YEAR AFTER COMPLETION.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED;
- EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ALL ROADWAYS/PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

CONSTRUCTION SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

EXCAVATION DEWATERING:

SHOULD EXCAVATION DEWATERING BE REQUIRED, THE CONTRACTOR MUST INSURE THAT ANY EXCAVATION DEWATERING DISCHARGES ARE NOT CONTAMINATED. NOTE: THE WATER IS CONSIDERED UNCONTAMINATED IF THERE IS NO GROUNDWATER CONTAMINATION WITHIN 1,000 FEET OF THE DISCHARGE.

THE CONTRACTOR MUST TREAT ANY UNCONTAMINATED EXCAVATION DEWATERING AS NECESSARY TO REMOVE SUSPENDED SOLIDS AND TURBIDITY DURING CONSTRUCTION. THE DISCHARGES MUST BE SAMPLED AT A LOCATION PRIOR TO MIXING WITH STORM WATER OR STREAM FLOW AT LEAST ONCE PER WEEK DURING WEEKS WHEN DISCHARGES OCCUR. THE SAMPLES MUST BE ANALYZED FOR TOTAL SUSPENDED SOLIDS (TSS) AND MUST MEET MONTHLY AVERAGE AND MAXIMUM DAILY TSS LIMITATIONS OF 50 MILLIGRAMS PER LITER (MGL), RESPECTIVELY.

STORMWATER POLLUTION PREVENTION PLAN:

THE PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE USEPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION PERMIT, WHICH INCLUDES A WRITTEN STORM WATER POLLUTION PREVENTION (SWPPP) PLAN FOR CONSTRUCTION. THE SWPPP PLAN SHALL OUTLINE DETAILED SPECIFICATIONS FOR IMPLEMENTATION, INSPECTION, AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR COMPLIANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN, SHALL BE RESPONSIBLE FOR AMENDING THE SWPPP ACCORDINGLY, AND SHALL BE RESPONSIBLE FOR ANY PENALTIES RESULTING FROM LACK OF COMPLIANCE.

SPECIFICATIONS FOR TEMPORARY AND PERMANENT SEEDED:

GRASS SEED MIXES SHALL CONSIST OF THE MIXTURES AS DETAILED IN THE FOLLOWING TABLES, WITH 98% PURITY:

EROSION CONTROL SEED MIX		
SEED	BY % MASS	% GERMINATION (MIN.)
WINTER RYE 80 (MIN.)	80 (MIN.)	85
RED FESCUE (CREEPING)	4 (MIN.)	80
PERENNIAL RYE GRASS	3 (MIN.)	90
RED CLOVER	3 (MIN.)	90
OTHER CROP GRASS	0.5 (MAX.)	
NOXIOUS WEED SEED	0.5 (MAX.)	
INERT MATTER	1.0 (MAX.)	

PERMANENT SEED MIX		
SEED	BY % MASS	% GERMINATION (MIN.)
RED FESCUE (CREEPING)	50	85
KENTUCKY BLUE	25	85
PERENNIAL RYE GRASS	10	90
RED TOP	10	85
LANDINO CLOVER	5	85

WINTER CONSTRUCTION NOTES:

ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDED AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDED AND PLACING 3 TO 4 TONS OF MULCH PER ACRE ELSEWHERE. MULCH REMAINING IN THE SPRING SHALL BE REMOVED AND REPLACED AT RATE OF 2 TONS PER ACRE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND TACKIFIER SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND.

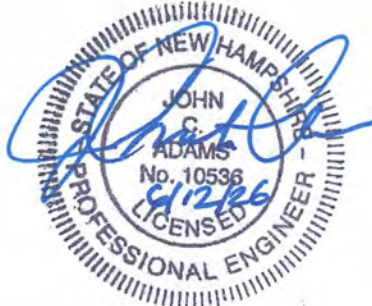
ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3 OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.



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NOT ISSUED
FOR
CONSTRUCTION

CATCH NEIGHBORHOOD HOUSING

43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP 303/Z LOT 68

APPLICANT:
CATCH NEIGHBORHOOD HOUSING
105 LOUDON ROAD, UNIT #1
CONCORD, NEW HAMPSHIRE

OWNER:
KEVIN F. SEIGEL
& GEORGE J. SEIGEL, JR.
P.O. BOX 1148
NORTH HAMPTON,
NEW HAMPSHIRE

NO.	DATE	DESCRIPTION
-----	------	-------------

REVISIONS

SCALE:
AS NOTED

DATE:	JUNE 12, 2026
NOBIS PROJECT NO.	101148.00
DRAWN BY:	NCP
CHECKED BY:	JCA
CAD DRAWING FILE:	101148.00-C-005-NOTES&LEGEND.dwg
SHEET TITLE	

GENERAL NOTES AND LEGEND

SHEET

G-1

1. Survey by totstation between the dates of March 25 and April 2, 2025. Control Traverse error of closure 1:320,734.
2. Horizontal datum is based on New Hampshire State Plane Coordinate System NAD 83 based on GPS observations and OPUS solutions.
3. Vertical datum is based on NAVD 88.
4. Owner of record: Kevin F. Seigel & George J. Seigel, Jr. PO Box 1148 North Hampton, NH 03862-1032 Map 303Z, Lot 68 Book 1207,

5. The subject premises is within the General Commercial zoning district, Minimum lot size=25,000 sq. ft., Minimum buildable area=12,500 sq. ft., Minimum frontage=150', Building setback: front=30'; rear=30'; rear=25', Maximum lot coverage=80%.

5. The underground utilities depicted hereon have been located from field survey information and plotted from existing drawings. The surveyor has no way of knowing that the utilities depicted hereon comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated and that the information is correct and complete to the extent that the information available. The surveyor has not physically located the underground portion of the utilities. All contractors should notify, in writing, the appropriate utility company and the local agencies prior to any excavation work and call DIG-SAFE at 811.

7. The intent of this plat is to depict the existing conditions of 43 Fisherville Road Concord, NH.

8. Soil Types: 789B Champlain—Urbanland complex 0–8% slopes.

9. There are no recorded covenants or restrictions related to the use of the property that this surveyor is aware of.

10. There are no wells or septic systems in the vicinity that this surveyor is aware of nor are there any proposed.

11. The site is not located in the FH Overlay District or the Merrimack River F1 District.

12. The site is not located in the Aquifer Protection (AP) Overlay District

13. The site is not located in the Shoreland Protection (SP) Overlay District.

14. The site is serviced by municipal sanitary sewer and potable

1. Plat entitled "R-Subdivision for Green Acres Mobile Homes, Inc Fort Eddy Road Record, NH" dated August 1975 by Richard D Bartlett, RLS and recorded at the M.C.R.D. as plan no. 4159.
2. Plat entitled "Subdivision of Land of Dunn & Deoss" dated July, 1980 by Gary T. Nelder, RLS and recorded at the M.C.R.D. as plan no. 8484.
3. Plat entitled "Survey of the land of Al & Michelle Leasing Inc." dated October 7, 1999 and recorded at the M.C.R.D. as plan no. 14906.

1. Pole line easement running from Fisherville Road across the property to a point 68' northeasterly of the westerly property line and 100' northerly of the southerly property line, exact location unknown due to power poles being removed. Also the right for a guy pole along Fisherville Road, Book 1080, Page 378.
2. Right-of-way easement along a driveway at the northeast corner of the subject premises Book 630, page 354.

Map 304Z Lot 1

VICINITY MAP
SCALE: 1" = 2000'

Map 304Z Lot 2
FREEDOM VILLAGE COOPERATIVE INC
24 Bonanza Dr
Concord, NH 03303
Book.3502 Page 1065
51 Fisherville Road

Map 303Z Lot 68
KEVIN SEIGEL
GEORGE SEIGEL JR.
P.O. Box 1148
North Hampton, NH 03862
Book 1207, Page 444
80,940 sq. ft. or
1.86 acres
43 Fisherville Road

Map 303Z Lot 67
JAMB LLC
FKA DABROWSKI REALTY HOLDINGS
OF NH LLC
P.O. Box 616
Marlborough, NH 03455
Book 3849, Page 1655
39 Fisherville Road

	PROPERTY LINE		CONIFEROUS TREE
	EDGE OF PAVEMENT		SHRUB
	EDGE OF GRAVEL		DECIDUOUS TREE
	OVERHEAD UTILITY LINES		ARTESIAN WELL
	DRAINAGE LINE		IRON PIPE(LP) OR REBAR
	SEWER LINE		STEEL PIN (SP)
	GAS LINE		GRANITE OR CONCRETE
	TEL. LINE		BOUND (CB OR CB)
	UNDERGROUND ELECT.		DRILL HOLE (DH)
	WATER LINE		UTILITY POLE
			LIGHT POLE
	DOUBLE YELLOW LINE		SEWER MANHOLE
	SINGLE WHITE LINE		DRAIN MANHOLE
	VERTICAL OR SLOPED		CATCH BASIN
	GRANITE CURB		HYDRANT
	SHORE LINE		
	CHAIN LINK FENCE		WATER SHUTOFF
	STOCKADE FENCE		WATER VALVE
	BARBED WIRE FENCE		IRRIGATION CONTROL VALVE
	STONE WALL		GAS SHUTOFF
	EDGE OF WOODS		MONITORING WELL
	CONCRETE		DELINEATED WETLAND
	SIGN HC=HANDICAPPED HCV= VAN ACCESSIBLE NP=NO PARKING		MAILBOX
	DETECTABLE WARNING PANEL (DWP)		

Map 303Z Lot 3
REYNOLD J ADDARIO FAMILY
REVOCABLE TRUST
REYNOLD J ADDARIO TRUSTEE
44 Fisherville Rd Apt 4
Concord, NH 03303

SMH	4516	
RIM	344.47	
INV.	4"CI (N)	339.85
INV.	6"CI (W)	339.76
INV.	6"CI (E)	339.67

SMH 286
RIM 344.79
INV. 8"VC (N) 335.20
INV. 8"VC (S) 335.31
INV. 5"CI (W) 338.21
INV. 6" PVC (W) 336.
INV. 4"CI (E) 338.69

DMH 19039
RIM 344.73
INV. 15"RCP (N) 337.6
INV. 15"RCP (S) 337.2

Map 303Z Lot 4
GEORGE & JANE BEAN
42 Fisherville Rd
Concord, NH 03303
Book 1504 Page 752

Map 303Z Lot 64
DISTER L DEOSS REVOCABLE TRUST
DISTER L DEOSS TRUSTEE
P.O. Box 658
Concord, NH 03301
Book 3592 Page 2006
Un-numbered Fisherville Road

ADDITIONAL ABUTTERS

Map 303Z Lot 2
DIANE CASALE & AMY WOOD
46 Fisherville Rd
Concord, NH 03303
Book 3760 Page 888

Map 304Z Lot 1
CUMBERLAND FARMS INC V0710
#9014
FORMERLY VSH REALTY INC
1665 Flanders Rd
Westborough, MA 01581
47 Fisherville Road

"I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR THOSE UNDER MY DIRECT IMMEDIATE SUPERVISION, AND DEPICTS A SURVEY CONDUCTED WITH A TOTAL STATION HAVING AN URBAN CLASSIFICATION AND A MINIMUM ERROR OF CLOSURE LESS THAN 1:10,000.

CERTIFICATION PER R.S.A.-676:18, III: "I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN."

"I HEREBY CERTIFY THAT I HAVE FILED A COPY OF THIS PLAN WITH THE PLANNING BOARD OF THE CITY OF CONCORD IN ACCORDANCE WITH R.S.A.-676:18 (IV)."

SIGNATURE WJ LICENSE NO. 741 DATE 6/10/26

SEAL OF THE STATE OF NEW HAMPSHIRE 1776

SIGNATURE

FOR: RICHARD D. BARTLETT
& ASSOCIATES, LLC

**RICHARD D. BARTLETT
& ASSOCIATES, LLC**

214 North State Street
Concord, N.H. 03301
Tel.: (603) 225-6770

info@richarddbartlett.com
www.richarddbartlett.com

LICENSED LAND SURVEYORS

EXISTING CONDITIONS PLAT
of the land of
KEVIN F. SEIGEL &
GEORGE J. SEIGEL, Jr.

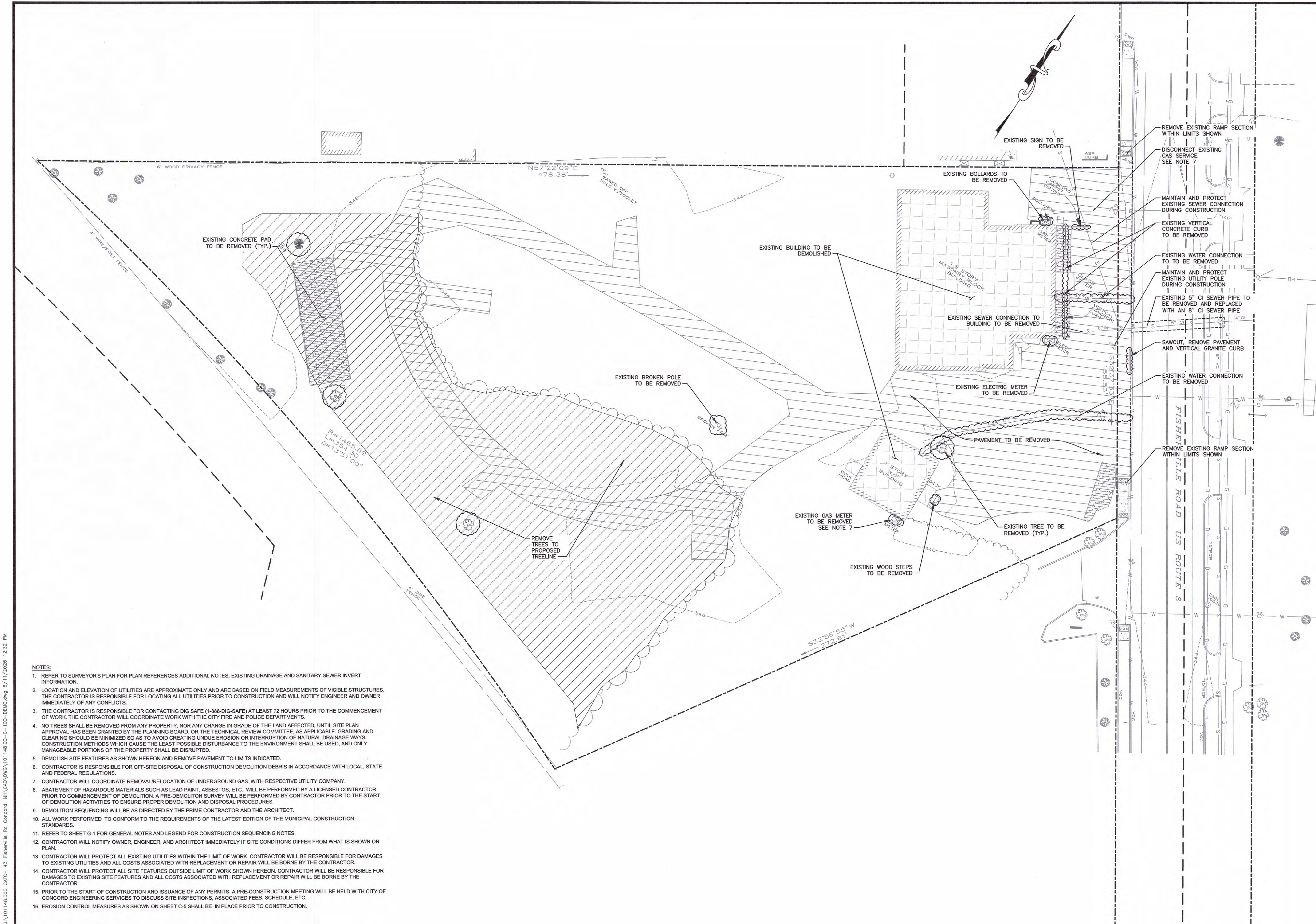
PROJECT: 43 FISHERVILLE ROAD CONCORD, NH
LOCATION: MAP 303Z, LOT 68

GRAPHIC SCALE

0' 10' 20' 40'

SCALE: 1" = 20'

J:\101148.000 CATCH 43 Fisherville Rd Concord, NH\CAD\DWG\101148.00-C-100-DEMO.dwg 6/11/2026 12:32 PM



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**CATCH
NEIGHBORHOOD
HOUSING**
43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE
TAX MAP 303/Z LOT 68
APPLICANT:
CATCH NEIGHBORHOOD HOUSING
105 LOUDON ROAD, UNIT #1
CONCORD, NEW HAMPSHIRE
OWNER:
KEVIN F. SEIGEL
& GEORGE J. SEIGEL, JR.
P.O. BOX 1148
NORTH HAMPTON,
NEW HAMPSHIRE

NO.	DATE	DESCRIPTION
REVISIONS		
GRAPHIC SCALE		

DATE:	JUNE 12, 2026
NOBIS PROJECT NO.	101148.00
DRAWN BY:	NCP
CHECKED BY:	JCA
CAD DRAWING FILE:	101148.00-C-100-DEMO.dwg
SHEET TITLE	

**DEMOLITION
PLAN**

SHEET
C-1

J:\101148.000 CATCH 43 Fisherville Rd Concord, NH\CAD\DWG\101148.00-C-200-SITE.dwg 6/14/2026 8:14 PM

DEED REFERENCE:
TAX MAP 303Z LOT 68 BOOK 1207 PAGE 444
KEVIN F. SEIGEL & GEORGE J. SEIGEL, JR., P.O. BOX 1148, NORTH HAMPTON, NEW HAMPSHIRE, 03862

ZONING ANALYSIS

TAX MAP: 303Z/68
ADDRESS: 43 FISHERVILLE ROAD
CONCORD, NH
ZONING DISTRICT: GENERAL COMMERCIAL DISTRICT (CG)

MINIMUM LOT AREA	25,000 SF	PROVIDED	80,940 SF
MINIMUM BUILDABLE LAND	12,500 SF (0.29 ACRES)	PROVIDED	80,940 SF (1.86 ACRES)
DENSITY (12 UNITS/ACRE BUILDABLE LAND) ALLOWED = 22 UNITS		PROVIDED	34 UNITS
MINIMUM LOT FRONTAGE	150'	PROVIDED	155'
BUILDING SETBACKS		PROVIDED	
FRONT YARD	30'	30'	
SIDE YARD	25'	30'	
REAR YARD	30'	30'	
BUFFERS			
MULTI-FAMILY (3-STORY)	75'	7'	
RESIDENTIAL BUFFER	30'	34'	
MAXIMUM LOT COVERAGE	80%	PROVIDED	37,711 SF (46.6%)
MAXIMUM HEIGHT	45'	PROVIDED	<45'

REQUIRED PARKING SPACES
MULTI-FAMILY = 2 SPACE/DWELLING UNIT
34 DWELLING UNITS X 2 SPACE = 68 SPACES REQUIRED

TOTAL SPACES:	REQUIRED	EXISTING	PROPOSED
ACCESSIBLE SPACES:	68	N/A	43
	2	N/A	3 (INCL. ONE VAN ACCESSIBLE)

CITY OF CONCORD APPROVALS:

THE ZONING BOARD OF ADJUSTMENT OF THE CITY OF CONCORD GRANTED THE FOLLOWING VARIANCES ON MAY 6, 2025. (25A-0402-2025)

ARTICLE 28-4-5(d)(2) - MAXIMUM LOT COVERAGE AND DENSITY

TO PERMIT DENSITY OF APPROXIMATELY 18.4 MULTI-FAMILY DWELLING UNITS PER ACRE WHERE A MAXIMUM DENSITY OF 12 DWELLING UNITS PER ACRE IS PERMITTED

ARTICLE 28-4-5(d)(3) - BUILDING DIMENSIONS AND SEPARATION

TO ALLOW A BUILDING OF UP TO 186 FEET IN LENGTH WHERE A MAXIMUM OF 160 FEET IS PERMITTED

ARTICLE 28-4-5(d)(5) - PERIMETER BUFFER REQUIRED

TO PERMIT MULTI-FAMILY BUILDINGS WITHIN 30 FEET AND 39 FEET OF THE PROPERTY LINES AND PARKING FACILITIES TO WITHIN EIGHT(8) FEET, 24 FEET AND 34 FEET OF THE PROPERTY LINE WHERE A 75-FOOT PERIMETER BUFFER IS REQUIRED

ARTICLE 28-7-7(g)(3) - PARKING TO BE LOCATED TO THE SIDE OR REAR OF A BUILDING

TO PERMIT OFF-STREET PARKING TO BE LOCATED IN FRONT OF THE BUILDING WHERE IT IS OTHERWISE NOT ALLOWED

ARTICLE 28-7-13(a) - TABLE OF OFF-STREET LOADING REQUIREMENTS

TO ALLOW NO OFF-STREET LOADING SPACES WHERE ONE SPACE IS REQUIRED

PLAN REFERENCES:

- EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "EXISTING CONDITIONS PLAT OF THE LAND OF KEVIN F. SEIGEL & GEORGE J. SEIGEL, JR.", DATED APRIL 2025, BY RICHARD D. BARTLETT AND ASSOCIATES, LLC.
- BUILDING FOOTPRINT PROVIDED TO NOBIS GROUP BY WARRENSTREET ARCHITECTS, INC. ON MARCH 31, 2026. THE FOOTPRINT SHOULD NOT BE USED FOR LAYOUT OF BUILDING CORNERS. REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR FOUNDATION AND BUILDING DIMENSIONS TO BE USED FOR LAYOUT OF NEW BUILDINGS.

NOTES:

- THE PURPOSE OF THIS PLAN IS TO DEPICT A PROPOSED MULTI-FAMILY RESIDENTIAL BUILDING WITH ASSOCIATED AMENITIES, ACCESS, PARKING, STORMWATER CONTROLS, AND UTILITIES.
- ALL BUILDING AND SITE CONSTRUCTION SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITY ACT (ADA) LATEST EDITION.
- DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND / OR SPECIFICATIONS, THE ENGINEER WILL BE NOTIFIED BY THE CONTRACTOR.
- NO JURISDICTIONAL WETLANDS WERE FOUND ON THE SUBJECT PARCEL BASED ON AN INSPECTION MADE BY CERTIFIED WETLAND SCIENTIST JOHN ST. JOHN, CWS #221, ON MAY 27, 2026.
- THE PROPERTY IS NOT WITHIN THE AQUIFER PROTECTION DISTRICT.
- THE PROPERTY IS NOT WITHIN THE FLOOD HAZARD OVERLAY DISTRICT OR THE MERRIMACK RIVER F1 DISTRICT.
- THE PROPERTY IS NOT WITHIN THE SHORELAND PROTECTION (SP) OVERLAY DISTRICT.
- THERE ARE NO PUBLIC SPACES, PARKS, OR HISTORIC STRUCTURES ON SITE.
- THERE ARE NO WELLS OR SEPTIC SYSTEMS IN THE VICINITY THAT THE SURVEYOR IS AWARE IS AWARE OF.
- PROPOSED BUILDING WILL BE SERVICED BY MUNICIPAL WATER AND SEWER.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
- A MANDATORY PRE-CONSTRUCTION MEETING WILL NEED TO BE HELD PRIOR TO ISSUANCE OF ANY PERMITS TO DISCUSS INSPECTION FEES, CONSTRUCTION SCHEDULE, ETC.
- REFER TO CONSTRUCTION DETAIL SHEETS FOR ALL APPLICABLE SITE DETAILS.
- CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
- TEST PITS WERE PERFORMED BY NOBIS GROUP ON MAY 27, 2026.
- REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.



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CATCH
NEIGHBORHOOD
HOUSING

43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE

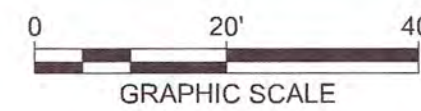
TAX MAP 303/Z LOT 68

APPLICANT:
CATCH NEIGHBORHOOD HOUSING
105 LOUDON ROAD, UNIT #1
CONCORD, NEW HAMPSHIRE

OWNER:
KEVIN F. SEIGEL
& GEORGE J. SEIGEL, JR.
P.O. BOX 1148
NORTH HAMPTON,
NEW HAMPSHIRE

NO.	DATE	DESCRIPTION
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REVISIONS



DATE: JUNE 12, 2026

NOBIS PROJECT NO. 101148.00

DRAWN BY: NCP

CHECKED BY: JCA

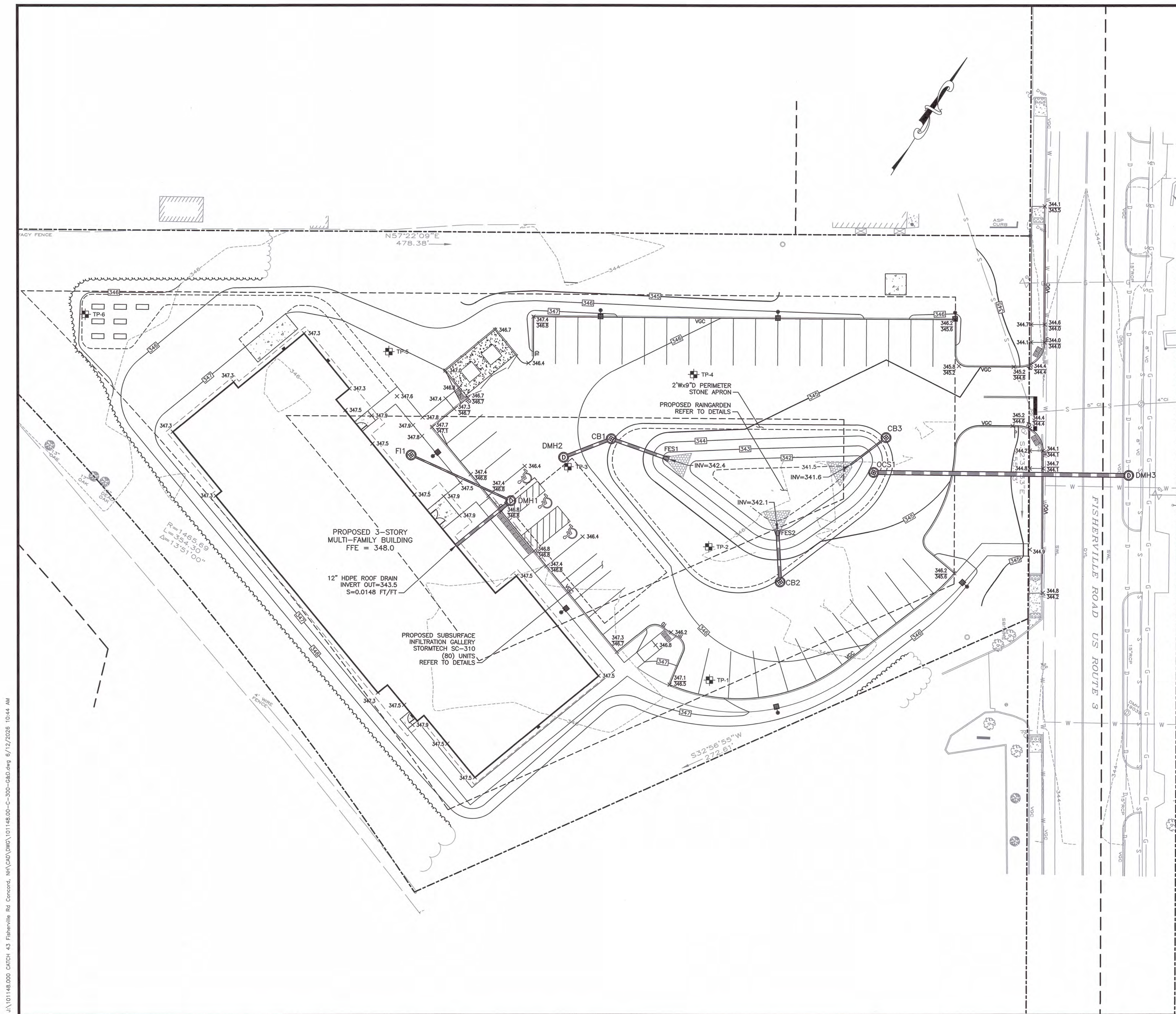
CAD DRAWING FILE:

101148.00-C-200-SITE.dwg

SHEET TITLE

PROPOSED SITE
PLAN

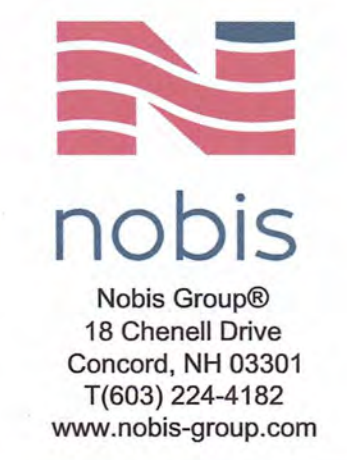
SHEET
C-2



- NOTES:**
1. REFER TO SURVEYOR'S PLAN FOR BASE PLAN REFERENCES AND ADDITIONAL NOTES.
 2. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEY PLAN BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 3. CONTRACTOR WILL NOTIFY OWNER & ENGINEER IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 4. SPOT ELEVATIONS SHOWN AT BUILDING CORNERS ARE PROPOSED GROUND ELEVATIONS.
 5. FINISH WALK AND CURB ELEVATIONS WILL BE 7" ABOVE FINISH PAVEMENT.
 6. LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS FROM THE UTILITY COMPANIES AND FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
 7. ALL WORK ON SITE, ALL UTILITY WORK AND ALL WORK WITH CITY R.O.W. WILL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CONCORD SPECIFICATIONS, LATEST EDITION.
 8. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
 9. ALL STORM DRAIN PIPING WITH LESS THAN 3.0 FEET OF COVER WILL BE OVERLAIN WITH 2" THICK RIGID INSULATION FOR THE FULL WIDTH OF PIPE TRENCH.
 10. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.

DRAINAGE SCHEDULE

- F11**
RIM = 347.3
INV. OUT = 344.3 (6" PVC)
L = 40LF (TO DMH1)
S = 0.018 FT/FT
- DMH1**
RIM = 346.7
INV. IN = 343.6 (6" PVC)
INV. IN = 343.1 (12" HDPE ROOF DRAIN)
INV. OUT = 343.0 TO GALLERY
- DMH2**
RIM = 346.1
INV. IN = 343.48 (6" MANIFOLD)
INV. OUT = 343.1 (12" HDPE)
L = 17LF (TO CB1)
S = 0.023 FT/FT
- CB1**
RIM = 345.7
INV. IN = 342.7 (12" HDPE)
INV. OUT = 342.6 (12" HDPE)
L = 21LF (TO FES1)
S = 0.009 FT/FT
- CB2**
RIM = 345.3
INV. OUT = 342.3 (12" HDPE)
L = 11LF (TO FES2)
S = 0.011 FT/FT
- CB3**
RIM = 344.3
INV. OUT = 341.8 (6" PVC)
L = 16LF
S = 0.013 FT/FT
- OCS1**
RIM = 343.75
INV. OUT = 339.0 (15" RCP)
L = 90LF (TO DMH3)
S = 0.005 FT/FT
- DMH3**
RIM = 344.7
INV. IN = 338.1 (15" RCP EXISTING)
INV. IN = 338.5 (15" RCP)
INV. OUT = 338.1 (15" RCP EXISTING)



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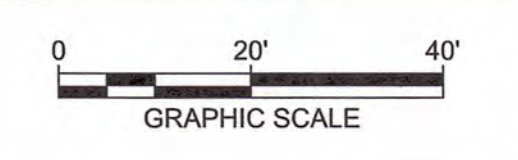
**CATCH
NEIGHBORHOOD
HOUSING**
43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP 303/Z LOT 68

APPLICANT:
CATCH NEIGHBORHOOD HOUSING
105 LOUDON ROAD, UNIT #1
CONCORD, NEW HAMPSHIRE

OWNER:
KEVIN F. SEIGEL
& GEORGE J. SEIGEL, JR.
P.O. BOX 1148
NORTH HAMPTON,
NEW HAMPSHIRE

NO.	DATE	DESCRIPTION
REVISIONS		



DATE:	JUNE 12, 2026
NOBIS PROJECT NO.	101148.00
DRAWN BY:	NCP
CHECKED BY:	JCA
CAD DRAWING FILE:	101148.00-C-300-G&D.dwg
SHEET TITLE	

**GRADING AND
DRAINAGE PLAN**

SHEET
C-3

J:\101148.000 CATCH 43 Fisherville Rd Concord, NH\CAD\DWG\101148.00-C-400-UTILITY.dwg 6/12/2026 10:36 AM

- NOTES:**
- REFER TO SURVEYOR'S PLAN, FOR BASE PLAN REFERENCES AND ADDITIONAL NOTES.
 - ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEY PLAN AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 - THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. CALL 1-888-DIGSAFE AT LEAST THREE BUSINESS DAYS BEFORE PERFORMING ANY CONSTRUCTION.
 - LOCATIONS AND ELEVATIONS OF UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS FROM THE UTILITY COMPANIES AND FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
 - THERE WILL BE NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND A SEWER OR SEWER APPURTENANCE WHICH WOULD PERMIT THE PASSAGE OF SEWAGE OR POLLUTED WATER INTO THE POTABLE SUPPLY. NO WATER PIPE WILL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER OR SEWER MANHOLE. NO SEWER WILL BE LOCATED WITHIN THE WELL PROTECTIVE RADI ESTABLISHED IN ENV-WQ 300 FOR ANY PUBLIC WATER SUPPLY WELLS OR WITHIN 100 FEET OF ANY PRIVATE WATER SUPPLY WELL. SEWERS WILL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. A DEVIATION FROM THE SEPARATION REQUIREMENTS WILL BE ALLOWED WHERE NECESSARY TO AVOID CONFLICT WITH SUBSURFACE STRUCTURES, UTILITY CHAMBERS, AND BUILDING FOUNDATIONS, PROVIDED THAT THE SEWER IS CONSTRUCTED IN ACCORDANCE WITH THE FORCE MAIN CONSTRUCTION REQUIREMENTS SPECIFIED IN ENV-WQ 704.06.
 - WHENEVER SEWERS MUST CROSS WATER MAINS, THE SEWER WILL BE CONSTRUCTED AS FOLLOWS:
 - VERTICAL SEPARATION OF THE SEWER AND WATER MAIN WILL BE NOT LESS THAN 18 INCHES, WITH WATER ABOVE SEWER; AND
 - SEWER PIPE JOINTS WILL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM THE WATER MAIN.
 - THE CONTRACTOR WILL PROVIDE A MINIMUM NOTICE OF FOURTEEN (14) DAYS TO ALL CORPORATIONS, COMPANIES AND/OR LOCAL AUTHORITIES OWNING OR HAVING A JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS PROJECT AREAS PRIOR TO DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
 - THE LOCATION, SIZE, DEPTH AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES WILL BE TO THE STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (ELECTRIC, TELEPHONE, CABLE TELEVISION, FIRE ALARM, GAS, WATER, AND SEWER).
 - ALL CONSTRUCTION WILL CONFORM TO THE TOWN STANDARDS AND REGULATIONS, UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION ACTIVITIES WILL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.
 - THE CONTRACTOR IS TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY STUBS PRIOR TO CONSTRUCTION AND DISCONNECT ALL EXISTING SERVICE CONNECTIONS AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS. ENGINEER TO BE NOTIFIED.
 - AS-BUILT PLANS WILL BE SUBMITTED TO DEPARTMENT OF PUBLIC WORKS.
 - INVERTS AND SHELVES: MANHOLES WILL HAVE A BRICK PAVED SHELVE AND INVERT. CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW AT CHANGES IN DIRECTION. THE INVERTS WILL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES WILL BE CONSTRUCTED TO MATCH THE HIGHEST PIPE CROWN, AND SHELVE WILL CONSIST OF GRADE SS HARD BRICK MASONRY.
 - FRAMES AND COVERS: MANHOLE FRAMES AND COVERS WILL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30 INCH DIA. CLEAR OPENING. THE WORD "SEWER" WILL BE CAST INTO THE CENTER OF THE UPPER FACE OF EACH COVER WITH RAISED, 3" LETTERS.
 - SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND CAPABLE OF SUPPORTING H20 LOADS.
 - CONTRACTOR WILL PLACE 2" WIDE METAL WIRE IMPREGNATED GREEN PLASTIC WARNING TAPE OVER ENTIRE LENGTH OF ALL GRAVITY SEWERS, SERVICES, AND FORCE MAINS.
 - ALL SANITARY STRUCTURE INTERIOR DIAMETERS (4" MIN) WILL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS.
 - PROPOSED RIM ELEVATIONS OF SANITARY MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES AND OTHER UTILITIES TO FINISH GRADE.
 - ALL SANITARY SEWER SERVICE LATERALS, FOR FUTURE RESIDENTIAL CONNECTION, WILL END AT THE LIMITS OF THE R.O.W., AS SHOWN ON PLANS AND WILL BE PROVIDED WITH A TEMPORARY PLUG AND WITNESS AT END.

- DIMENSIONS ARE SHOWN TO CENTERLINE OF PIPE OR FITTING.
- ALL GRAVITY SEWER PIPE, MANHOLES, AND FORCE MAINS WILL BE TESTED ACCORDING TO NHDES STANDARDS OF DESIGN AND CONSTRUCTION FOR SEWAGE AND WASTEWATER TREATMENT FACILITIES, CHAPTER ENV-WQ 700, CONFORMING TO THE FOLLOWING MIN. CRITERIA.

ENV-WQ 704.06 GRAVITY SEWER PIPE TESTING:

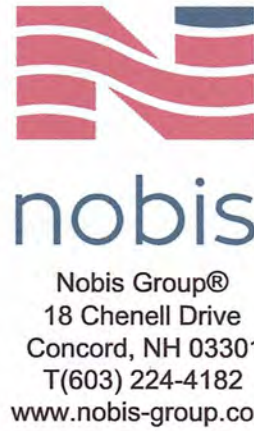
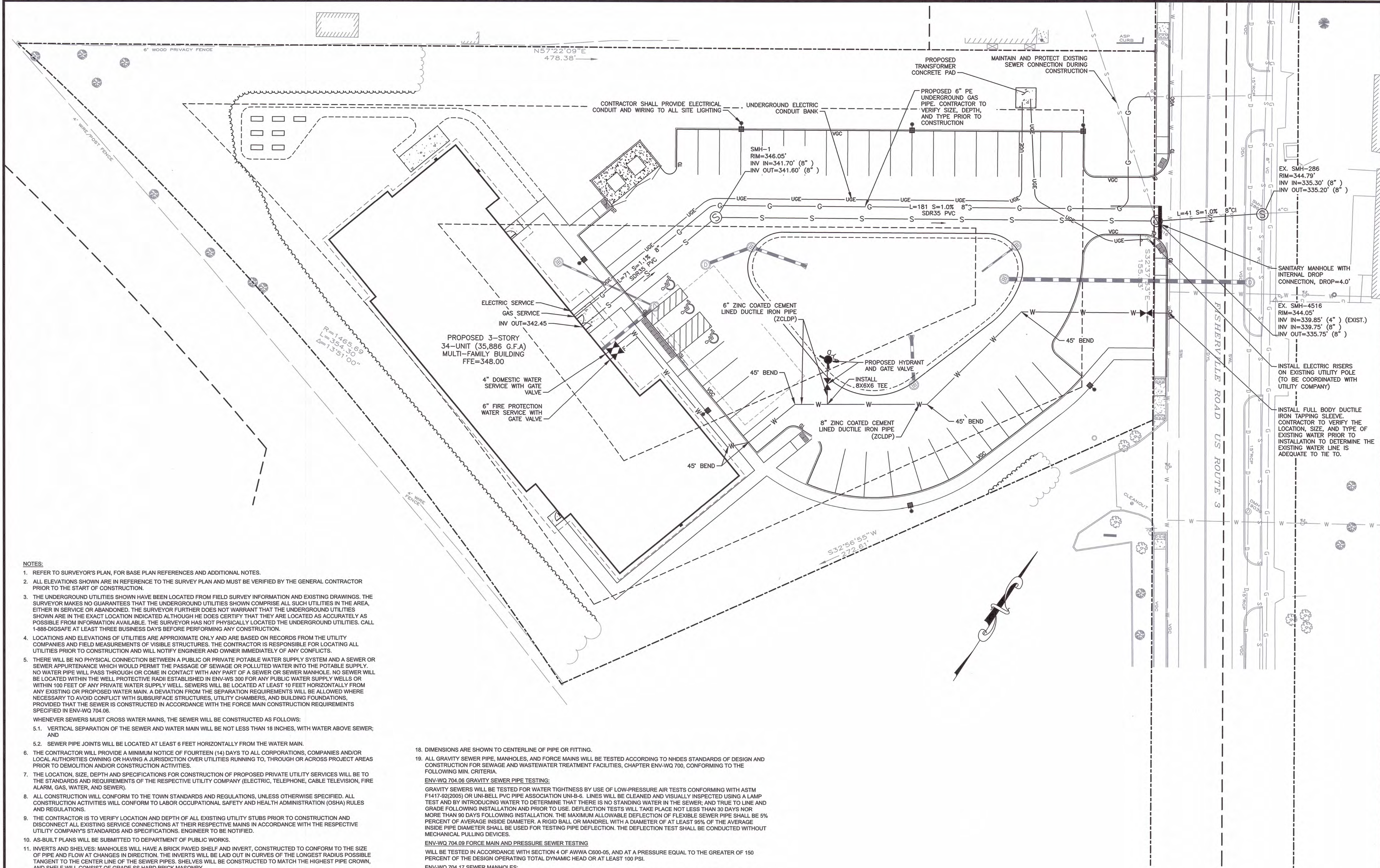
GRAVITY SEWERS WILL BE TESTED FOR WATER TIGHTNESS BY USE OF LOW-PRESSURE AIR TESTS CONFORMING WITH ASTM F1417-92(2005) OR UNI-BELL PVC PIPE ASSOCIATION UNI-B-8. LINES WILL BE CLEANED AND VISUALLY INSPECTED USING A LAMP TEST AND BY INTRODUCING WATER TO DETERMINE THAT THERE IS NO STANDING WATER IN THE SEWER, AND TRUE TO LINE AND GRADE FOLLOWING INSTALLATION AND PRIOR TO USE. DEFLECTION TESTS WILL TAKE PLACE NOT LESS THAN 30 DAYS NOR MORE THAN 90 DAYS FOLLOWING INSTALLATION. THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEWER PIPE SHALL BE 5% PERCENT OF AVERAGE INSIDE DIAMETER. A RIGID BALL OR MANDREL WITH A DIAMETER OF AT LEAST 95% OF THE AVERAGE INSIDE PIPE DIAMETER SHALL BE USED FOR TESTING PIPE DEFLECTION. THE DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES.

ENV-WQ 704.09 FORCE MAIN AND PRESSURE SEWER TESTING

WILL BE TESTED IN ACCORDANCE WITH SECTION 4 OF AWWA C600-05, AND AT A PRESSURE EQUAL TO THE GREATER OF 150 PERCENT OF THE DESIGN OPERATING TOTAL DYNAMIC HEAD OR AT LEAST 100 PSI.

ENV-WQ 704.17 SEWER MANHOLES:

WILL BE TESTED FOR LEAKAGE USING A VACUUM TEST. TESTING WILL BE CONDUCTED PRIOR TO PLACEMENT OF SHELVES AND INVERTS.
- SEWERS WILL BE BURIED TO A MINIMUM DEPTH OF 6 FEET BELOW GRADE IN ALL ROADWAY LOCATIONS, AND TO A MINIMUM DEPTH OF 4 FEET BELOW GRADE IN ALL CROSS-COUNTRY LOCATIONS. A NHDES WAIVER IS NEEDED IF THE MINIMUM REQUIRED DEPTH CANNOT BE MET.
- SEWER AND WATER INFRASTRUCTURE ON PRIVATE PROPERTY IS TO REMAIN PRIVATE, HOWEVER, THE TOWN RESERVES THE RIGHT TO ENTER THE PROPERTY IN ORDER TO INSPECT, REPAIR AND/OR TERMINATE INDIVIDUAL SEWER OR WATER SERVICES (AT OWNERS EXPENSE).
- CONTRACTOR WILL SET RIMS OF NEW SANITARY SEWER MANHOLES TO EXISTING FINISHED GRADE FOR THE WINTER SEASON. RIMS WILL BE RAISED IN THE SPRING PRIOR TO PLACEMENT OF 1" BITUMINOUS OVERLAY.
- SERVICE LATERAL LOCATIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD BASED ON INPUT FROM TOWN INSPECTOR AND/OR PROJECT CLERK OF THE WORKS.
- REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.



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FOR
CONSTRUCTION

**CATCH
NEIGHBORHOOD
HOUSING**
43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE

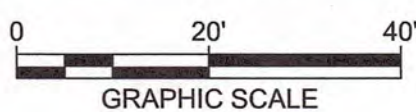
TAX MAP 303/Z LOT 68

APPLICANT:
CATCH NEIGHBORHOOD HOUSING
105 LOUDON ROAD, UNIT #1
CONCORD, NEW HAMPSHIRE

OWNER:
KEVIN F. SEIGEL
& GEORGE J. SEIGEL, JR.
P.O. BOX 1148
NORTH HAMPTON,
NEW HAMPSHIRE

NO.	DATE	DESCRIPTION
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REVISIONS

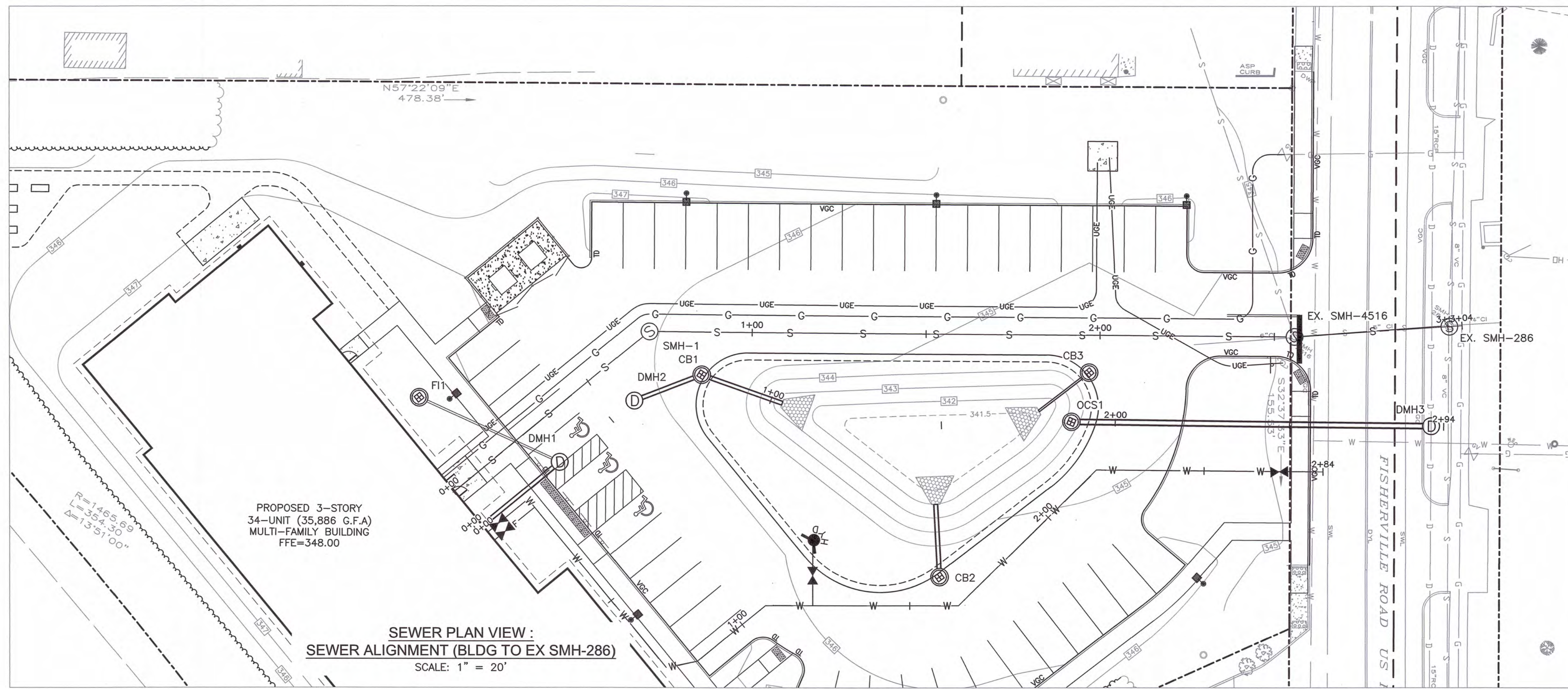


DATE:	JUNE 12, 2026
NOBIS PROJECT NO:	101148.00
DRAWN BY:	NCP
CHECKED BY:	JCA
CAD DRAWING FILE:	101148.00-C-400-UTILITY.dwg

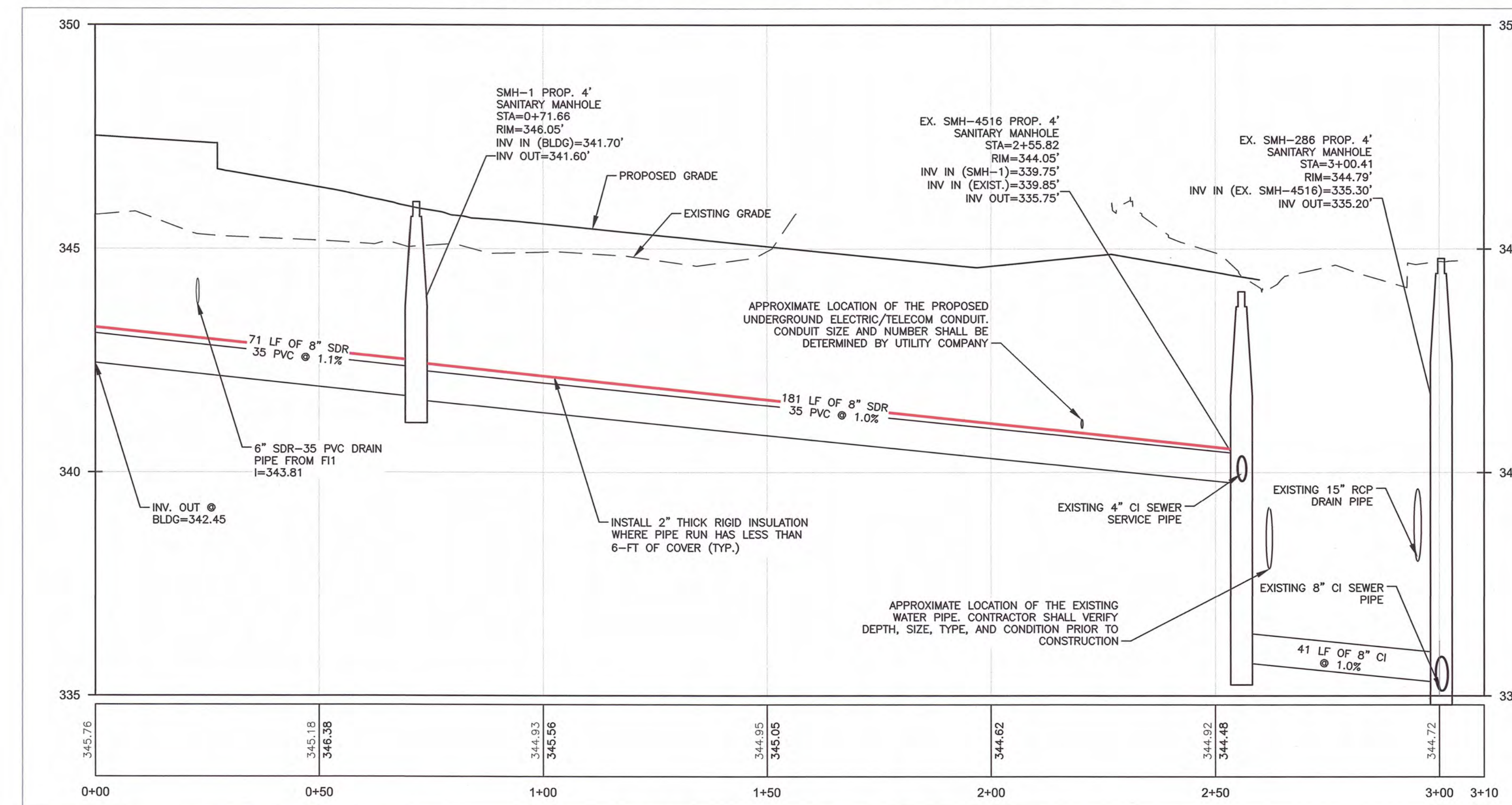
SHEET TITLE

**UTILITY LAYOUT
PLAN**

SHEET
C-4.0



SEWER PLAN VIEW:
SEWER ALIGNMENT (BLDG TO EX SMH-286)
SCALE: 1" = 20'



SEWER PROFILE (BLDG TO EX SMH-286)
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

- NOTES:
1. REFER TO GRADING AND DRAINAGE PLAN AND UTILITY LAYOUT PLANS FOR ADDITIONAL INFORMATION.
 2. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.
 3. THE HORIZONTAL SEPARATION FROM THE WATER MAIN TO ALL OTHER UTILITIES SHALL BE A MINIMUM OF 5-FT, PURSUANT THE CITY OF CONCORD CONSTRUCTION STANDARDS 5.03.D.14.
 4. THE HORIZONTAL SEPARATION FROM WATER MAIN AND SEWER MAIN SHALL BE A MINIMUM OF 10-FT PURSUANT THE CITY OF CONCORD'S CONSTRUCTION STANDARDS 5.03.D.12.
 5. THE MINIMUM COVER OVER PROPOSED WATER MAINS SHALL BE 5.5-FT, PURSUANT THE CITY OF CONCORD'S CONSTRUCTION STANDARDS 5.03.D.15.
 6. WHEN SEWER CROSSES WATER MAINS, THE SEWER WILL BE CONSTRUCTED AS FOLLOWS:
 - VERTICAL SEPARATION OF THE SEWER AND WATER MAIN WILL NOT BE LESS THAN 18 INCHES, WITH WATER ABOVE SEWER; AND
 - SEWER PIPE JOINT WILL BE LOCATED AT LEAST 6-FT HORIZONTAL FROM THE WATER MAIN.
 7. SEWER CONNECTIONS SHALL BE INSTALLED WITH A MINIMUM DEPTH OF 6-FT BELOW GRADE IN ALL ROADWAY LOCATIONS, AND TO A MINIMUM DEPTH OF 4-FT BELOW GRADE IN ALL CROSS COUNTRY LOCATIONS. A NHDES WAIVERS IS NEEDED IF THE MINIMUM REQUIRED DEPTH CANNOT BE MET.

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CONSTRUCTION

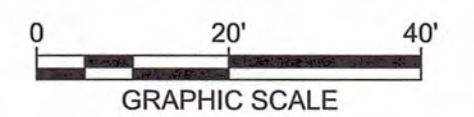
**CATCH
NEIGHBORHOOD
HOUSING**
43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE
TAX MAP 303/Z LOT 68

APPLICANT:
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105 LOUDON ROAD, UNIT #1
CONCORD, NEW HAMPSHIRE

OWNER:
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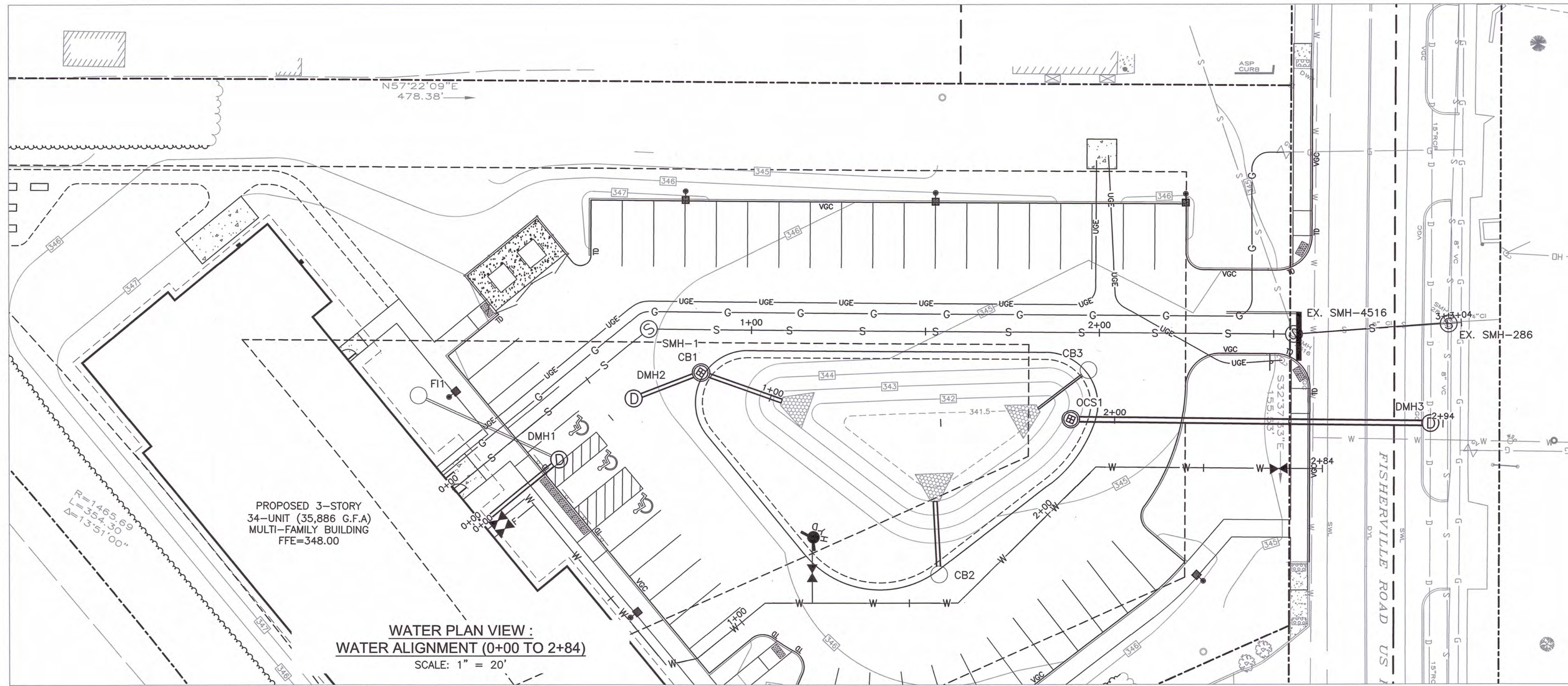
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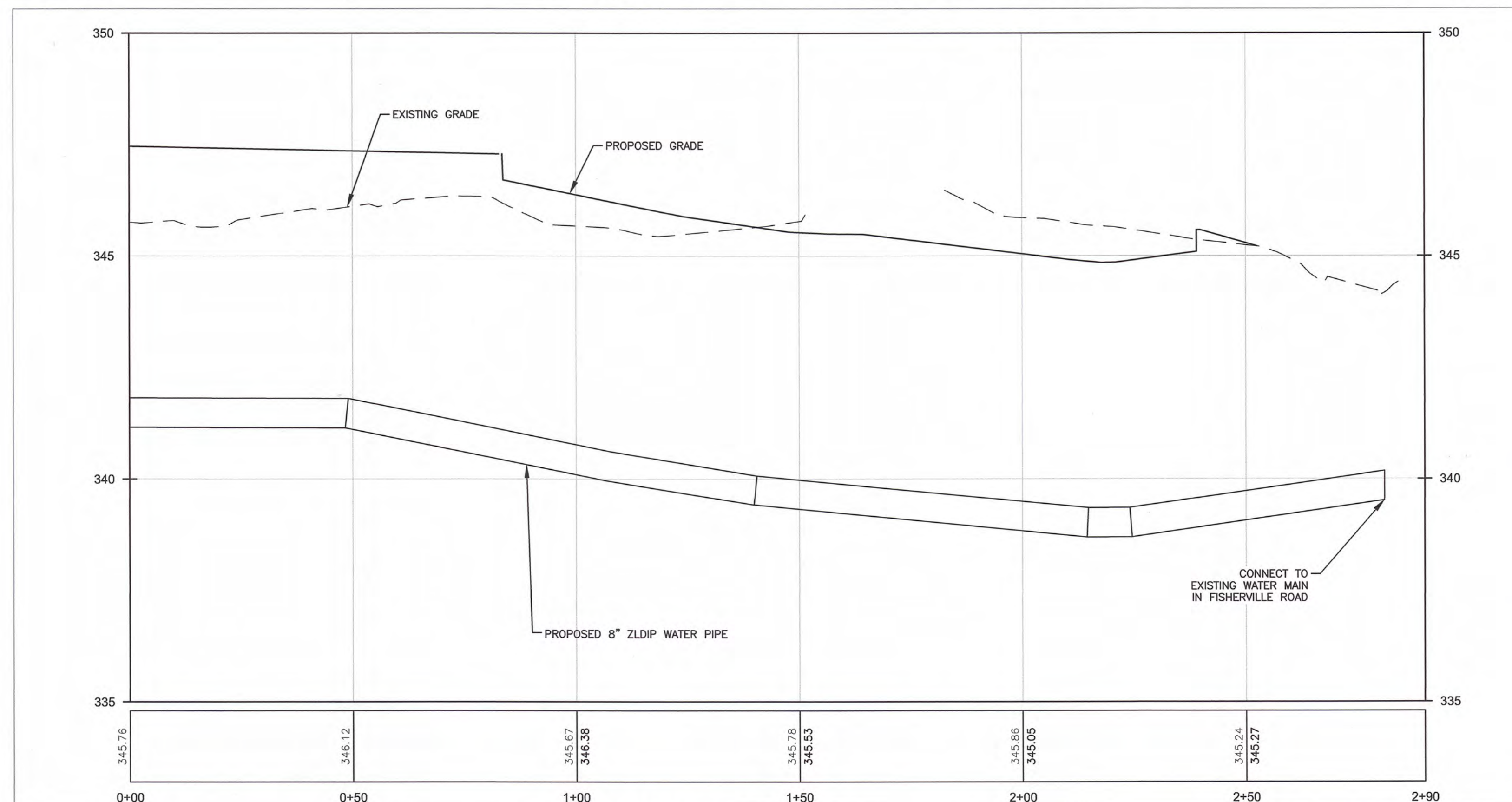
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NOBIS PROJECT NO.	101148.00
DRAWN BY:	NCP
CHECKED BY:	JCA
CAD DRAWING FILE:	101148.00-C-410-UTILITY-P&P.dwg
SHEET TITLE	

**SEWER
PROFILE PLAN**

SHEET
C-4.1



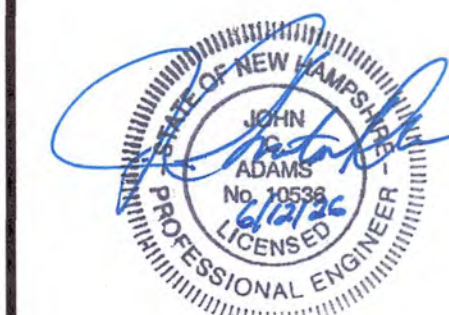
WATER PLAN VIEW :
WATER ALIGNMENT (0+00 TO 2+84)
SCALE: 1" = 20'



WATER PROFILE (0+00 TO 2+84)
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

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**CATCH
NEIGHBORHOOD
HOUSING**
43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP 303/Z LOT 68

APPLICANT:
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105 LOUDON ROAD, UNIT #1
CONCORD, NEW HAMPSHIRE

OWNER:
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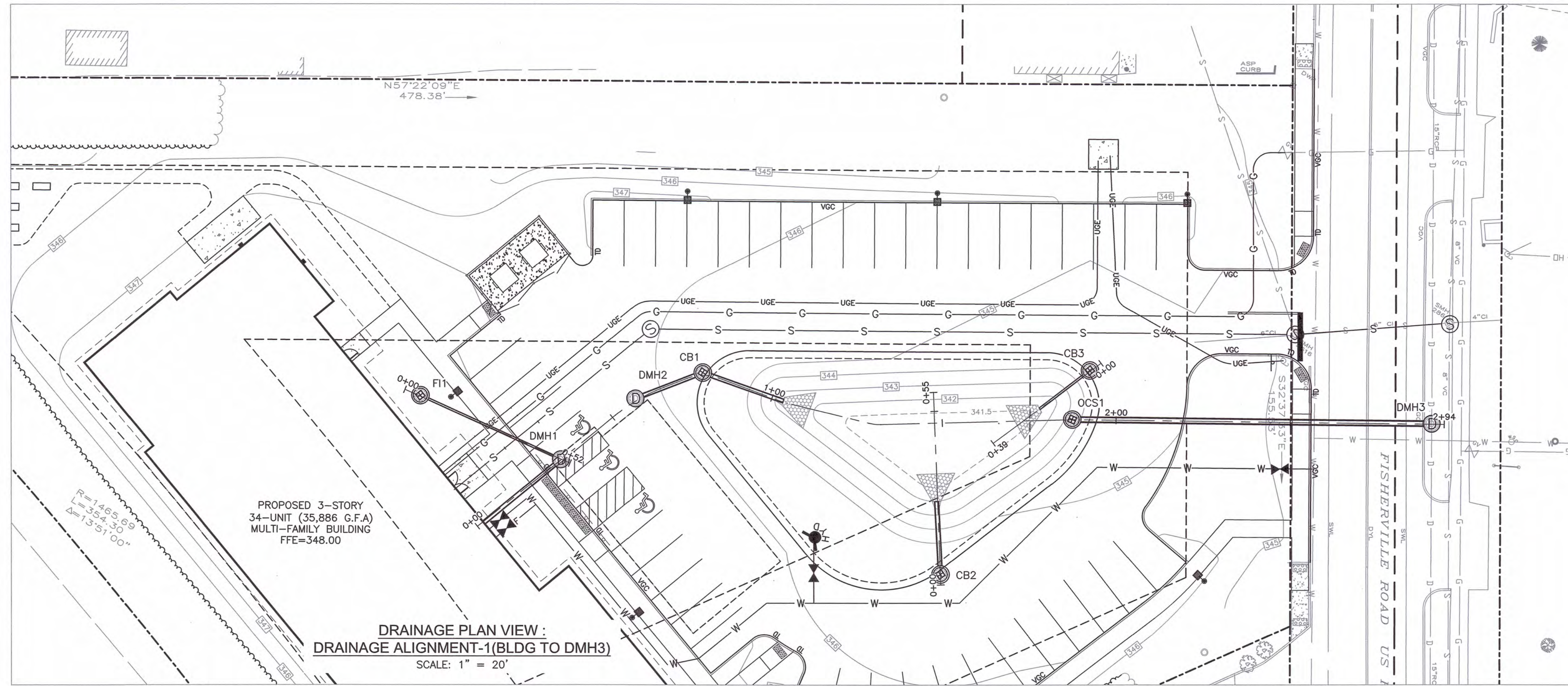
REVISIONS

0 20' 40'
GRAPHIC SCALE

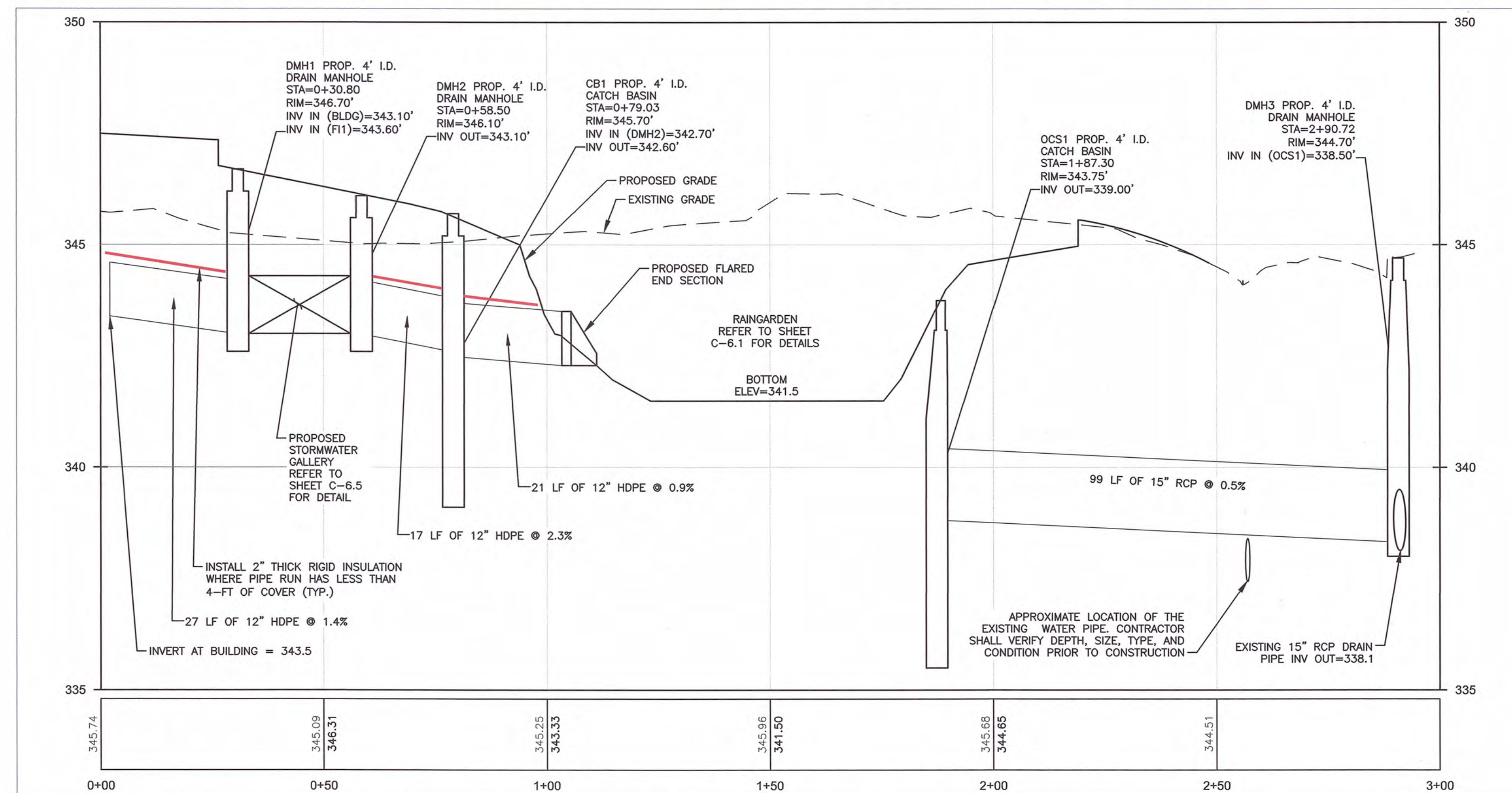
DATE: JUNE 12, 2026
NOBIS PROJECT NO. 101148.00
DRAWN BY: NCP
CHECKED BY: JCA
CAD DRAWING FILE:
101148.00-C-410-UTILITY-P&P.dwg
SHEET TITLE

**WATER
PROFILE PLAN**

SHEET
C-4.2



DRAINAGE PLAN VIEW :
DRAINAGE ALIGNMENT-1(BLDG TO DMH3)
SCALE: 1" = 20'



DRAINAGE PROFILE-1 (BLDG TO DMH3)
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

- NOTES:
1. REFER TO GRADING AND DRAINAGE PLAN AND UTILITY LAYOUT PLANS FOR ADDITIONAL INFORMATION.
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CONSTRUCTION

**CATCH
NEIGHBORHOOD
HOUSING**
43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE
TAX MAP 303/Z LOT 68

APPLICANT:
CATCH NEIGHBORHOOD HOUSING
105 LOUDON ROAD, UNIT #1
CONCORD, NEW HAMPSHIRE

OWNER:
KEVIN F. SEIGEL
& GEORGE J. SEIGEL, JR.
P.O. BOX 1148
NORTH HAMPTON,
NEW HAMPSHIRE

NO.	DATE	DESCRIPTION

REVISIONS

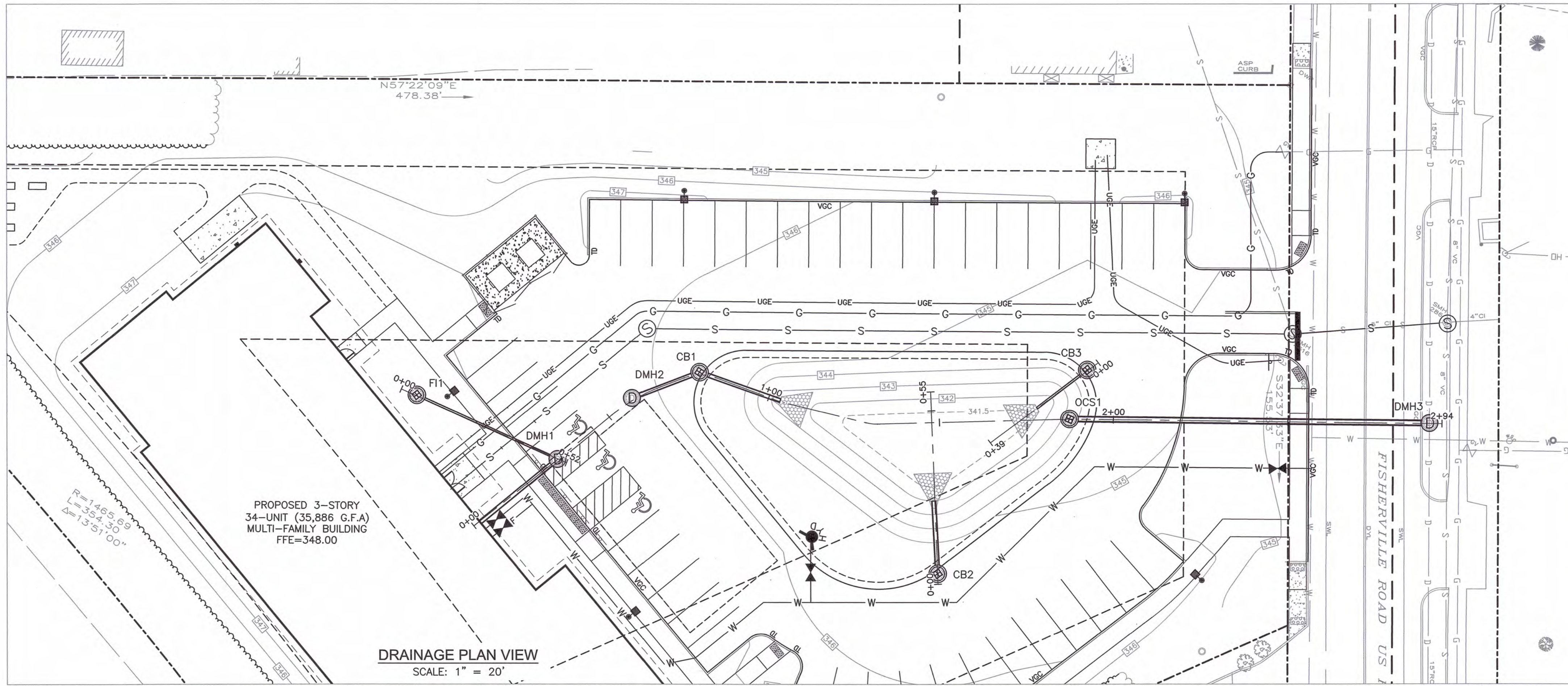
0 20' 40'
GRAPHIC SCALE

DATE: JUNE 12, 2026
NOBIS PROJECT NO. 101148.00
DRAWN BY: NCP
CHECKED BY: JCA
CAD DRAWING FILE:
101148.00-C-330-DRAIN-P&P.dwg
SHEET TITLE

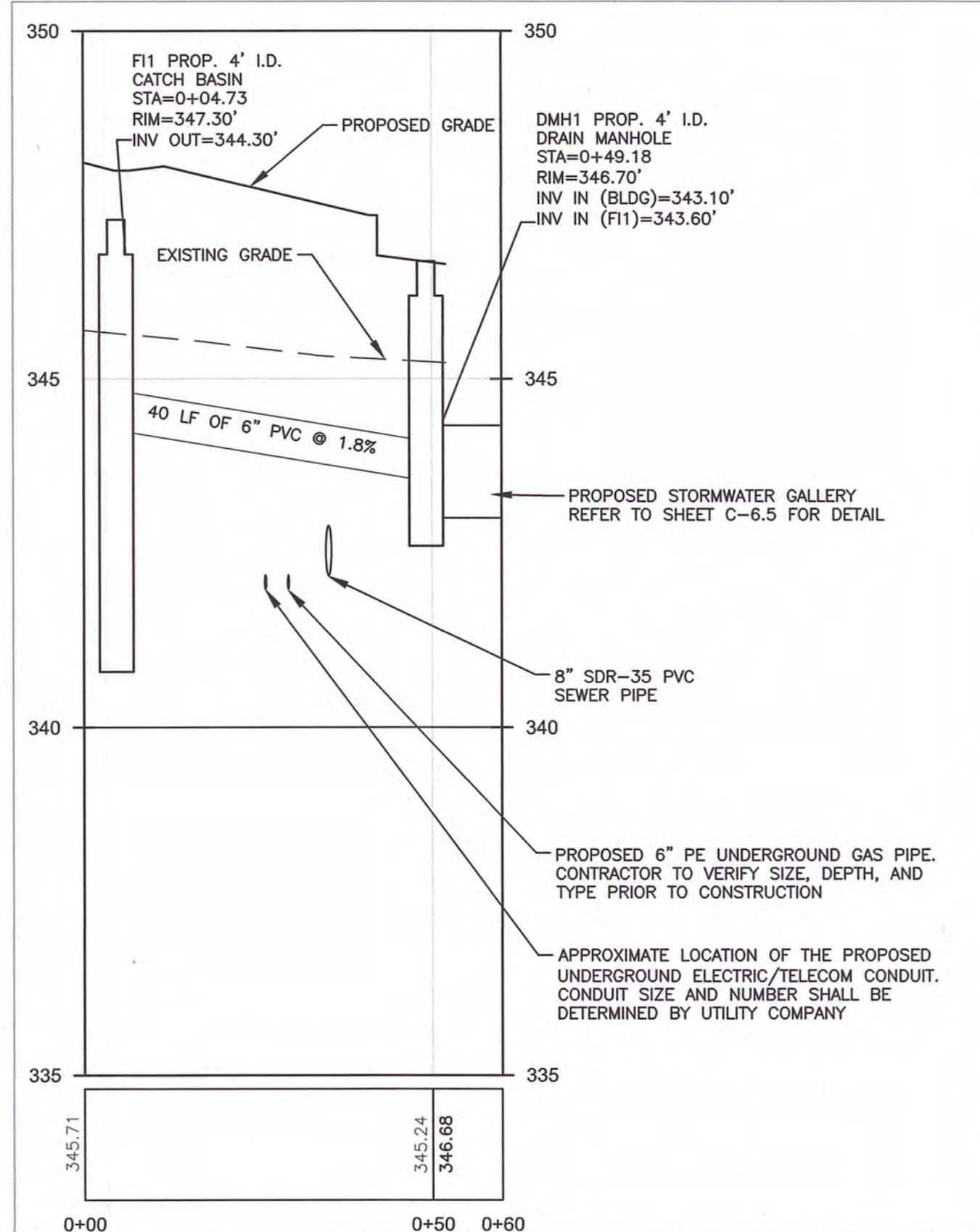
**DRAINAGE
PROFILE PLAN**

SHEET
C-4.3

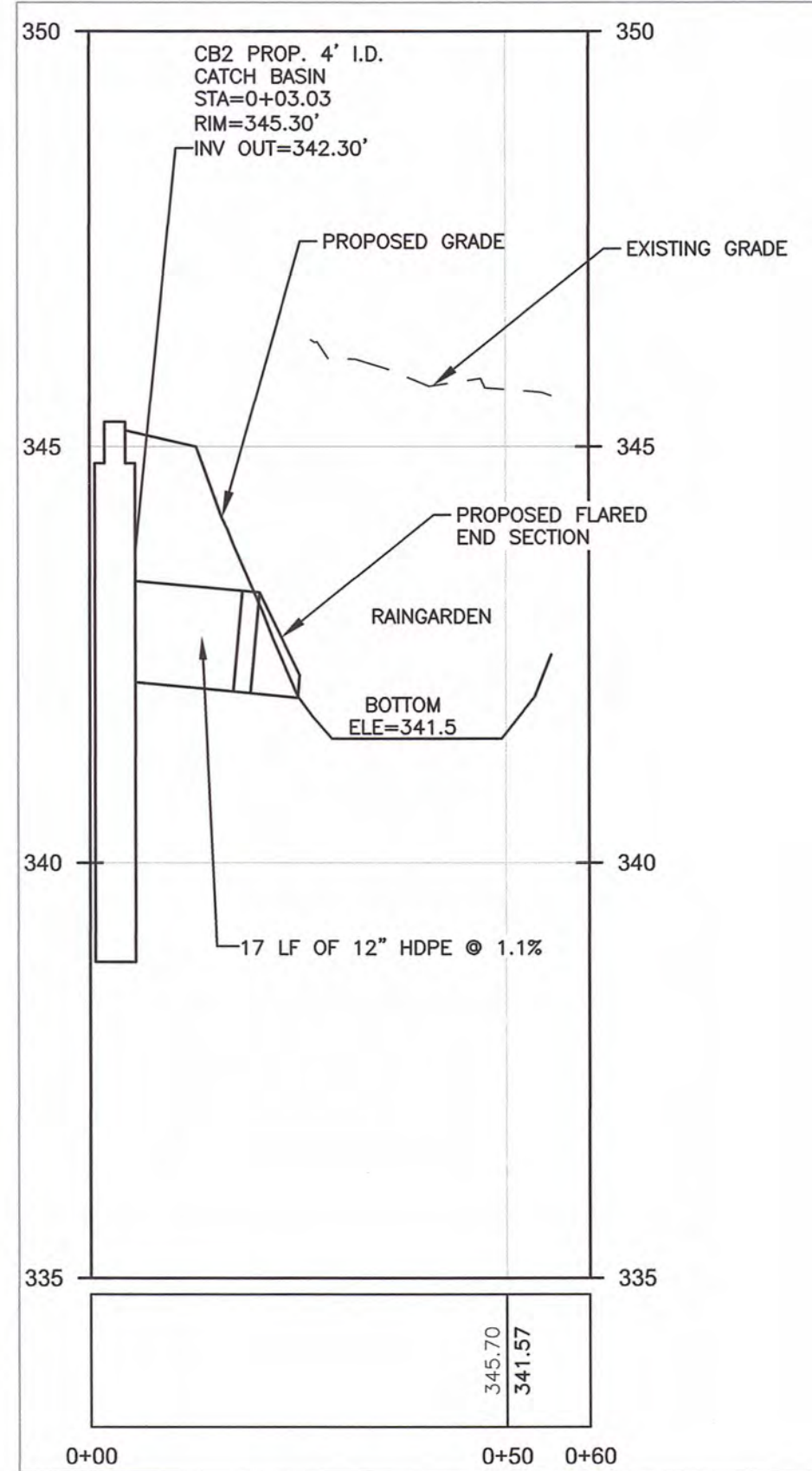
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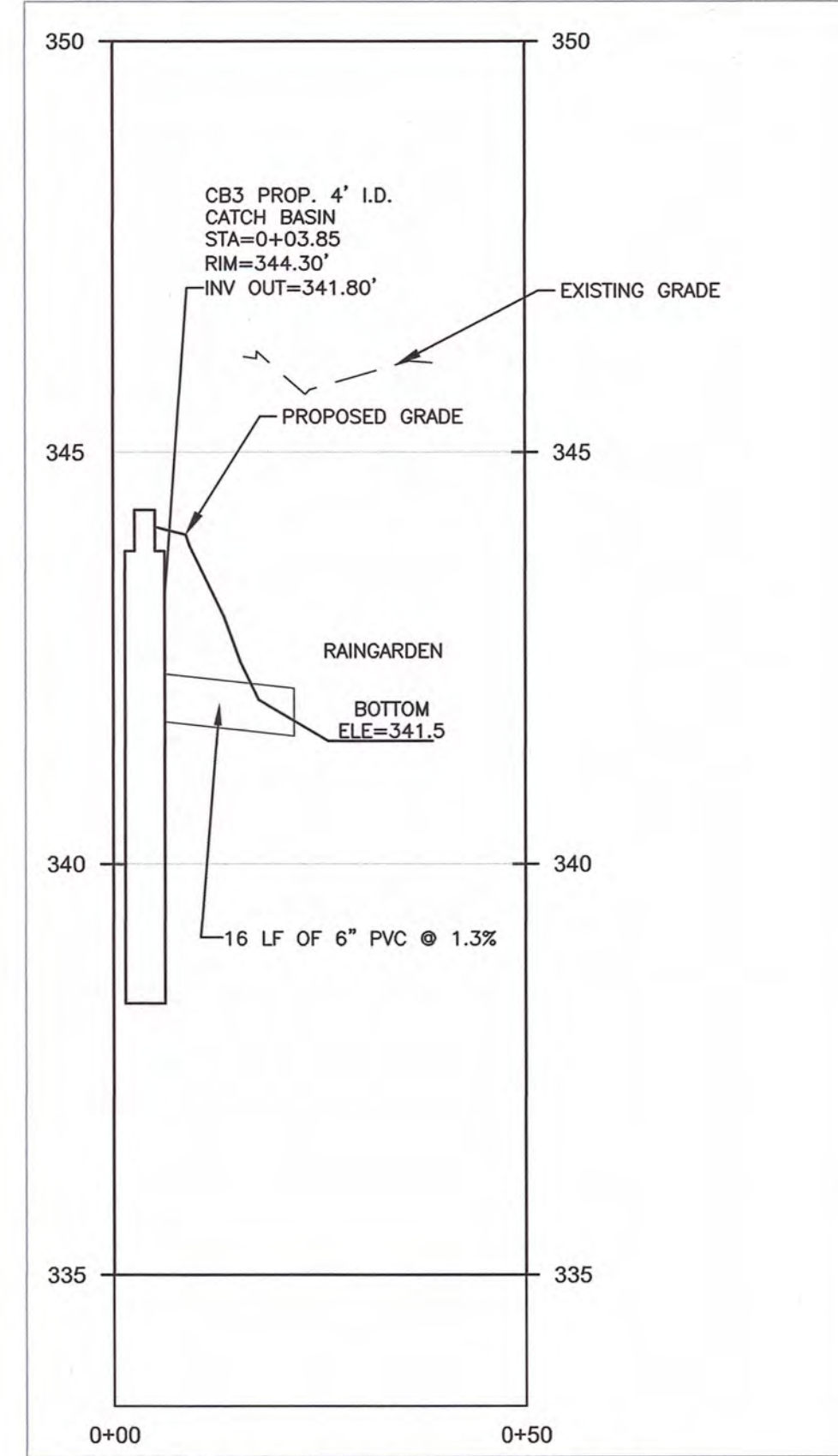
DRAINAGE PLAN VIEW
SCALE: 1" = 20'



DRAINAGE PROFILE-2 (F11 TO DMH1)
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'



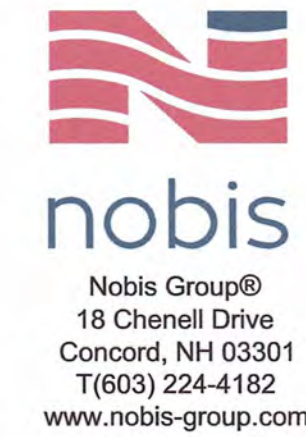
DRAINAGE PROFILE-3 (CB2 TO RG)
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'



DRAINAGE PROFILE-4 (CB3 TO RG)
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

NOTES:

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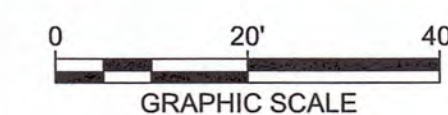
**CATCH
NEIGHBORHOOD
HOUSING**
43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE
TAX MAP 303/Z LOT 68

APPLICANT:
CATCH NEIGHBORHOOD HOUSING
105 LOUDON ROAD, UNIT #1
CONCORD, NEW HAMPSHIRE

OWNER:
KEVIN F. SEIGEL
& GEORGE J. SEIGEL, JR.
P.O. BOX 1148
NORTH HAMPTON,
NEW HAMPSHIRE

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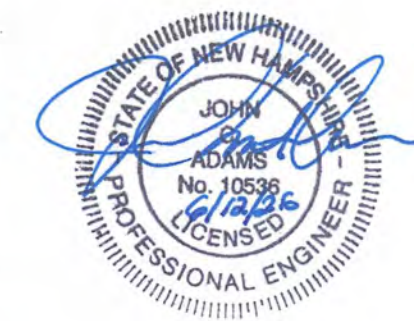
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DATE: JUNE 12, 2026
NOBIS PROJECT NO. 101148.00
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CAD DRAWING FILE:
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SHEET TITLE

**DRAINAGE
PROFILE PLAN**

SHEET
C-4.4



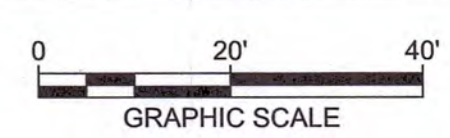
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**CATCH
NEIGHBORHOOD
HOUSING**
43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE
TAX MAP 303/Z LOT 68

APPLICANT:
CATCH NEIGHBORHOOD HOUSING
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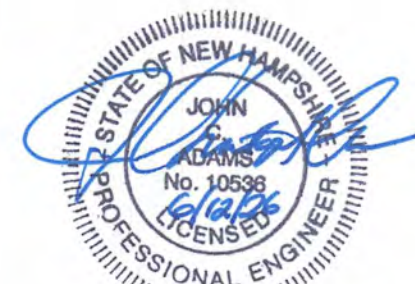
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NOBIS PROJECT NO.	101148.00
DRAWN BY:	NCP
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CAD DRAWING FILE:	101148.00-C-320-EROS.dwg

SHEET TITLE

**EROSION
CONTROL PLAN**

SHEET
C-5

- NOTES:
1. THIS PLAN IS NOT INTENDED TO SHOW PERMANENT DRAINAGE DESIGNS AND IS TO BE USED FOR TEMPORARY EROSION AND SEDIMENT CONTROL ONLY.
 2. CONTRACTOR TO GRADE ACTIVE EXCAVATION AREAS TO ALLOW MAXIMUM INFILTRATION OF STORMWATER AND MINIMIZE RUNOFF FROM DISTURBED AREAS.
 3. DISTURBANCES OF AREAS TO BE MINIMIZED. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING THE GROWING SEASON. AREAS WHICH WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE SHALL BE TEMPORARILY SEEDED AND MULCHED. ALL AREAS SHALL BE STABILIZED WITH SEED AND MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE AND PRIOR TO THE END OF THE GROWING SEASON.
 4. WHEN NO LONGER REQUIRED, TEMPORARY EROSION AND SEDIMENT CONTROL PRODUCTS SHOULD BE REMOVED PROMPTLY FROM THE PROJECT SITE.
 5. REFER TO SHEET G-1 FOR ADDITIONAL EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE.



**CATCH
NEIGHBORHOOD
HOUSING**

43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP 303/Z LOT 68

OWNER:
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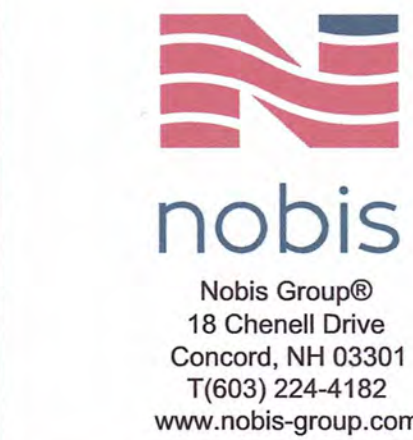
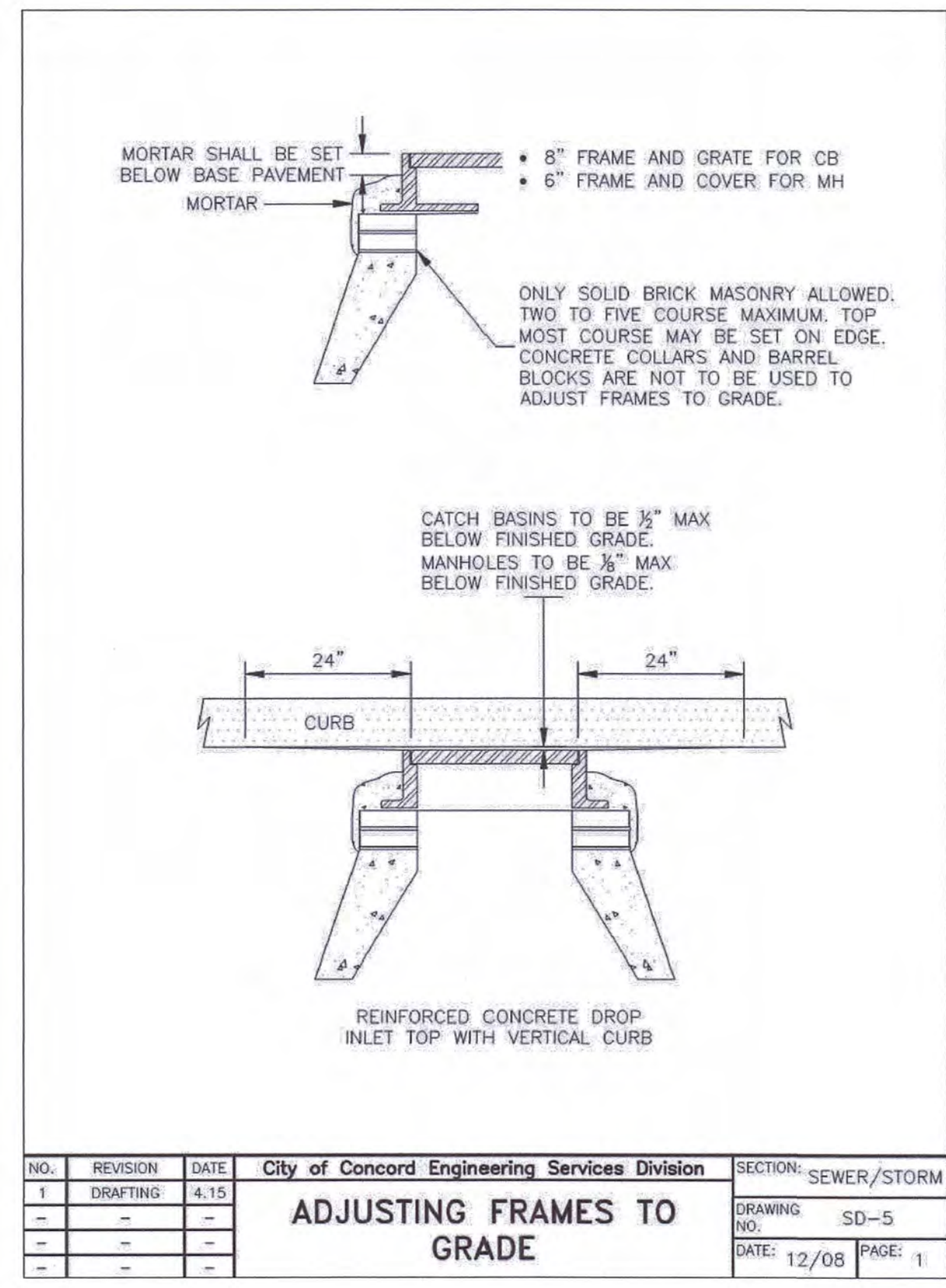
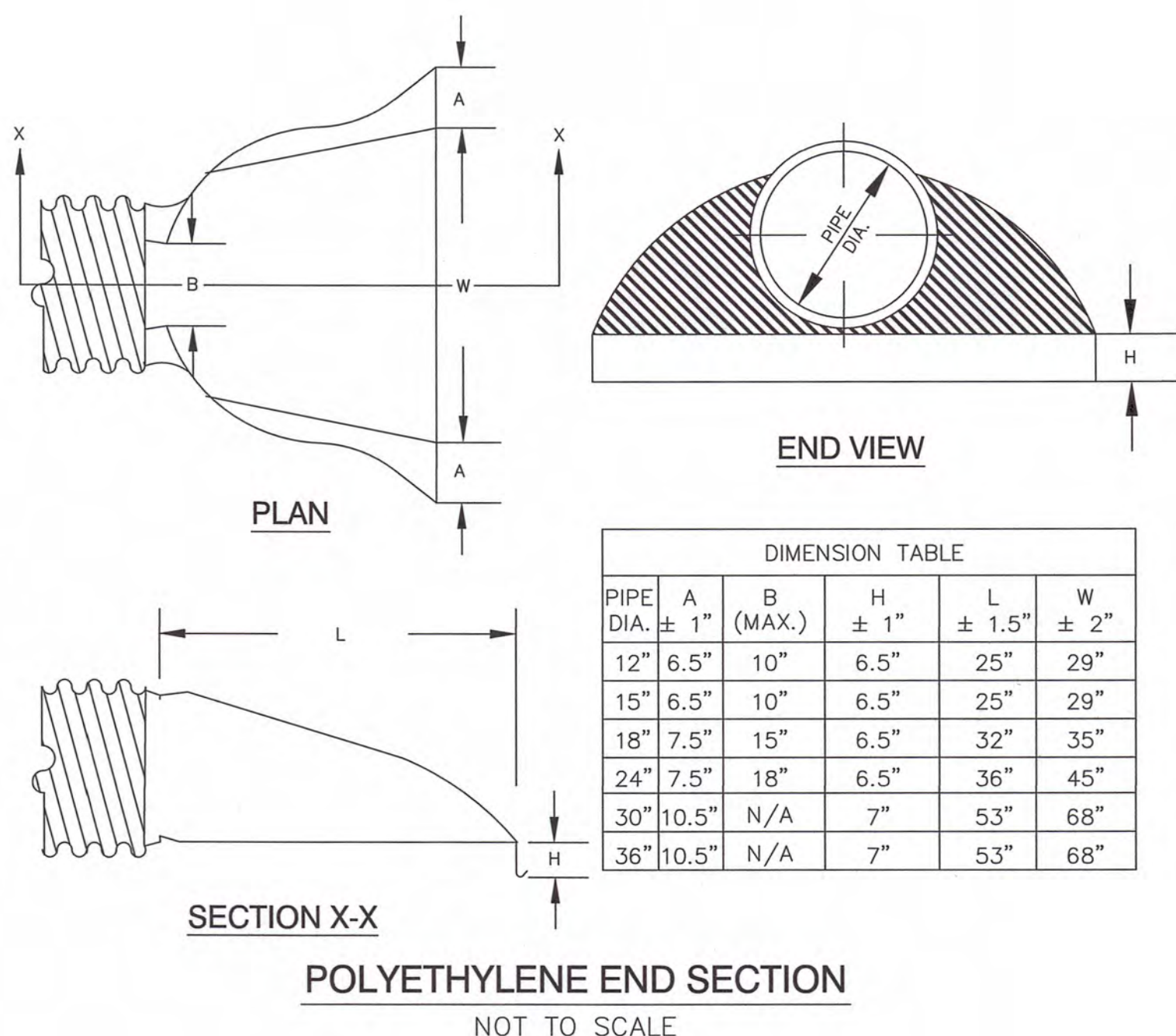
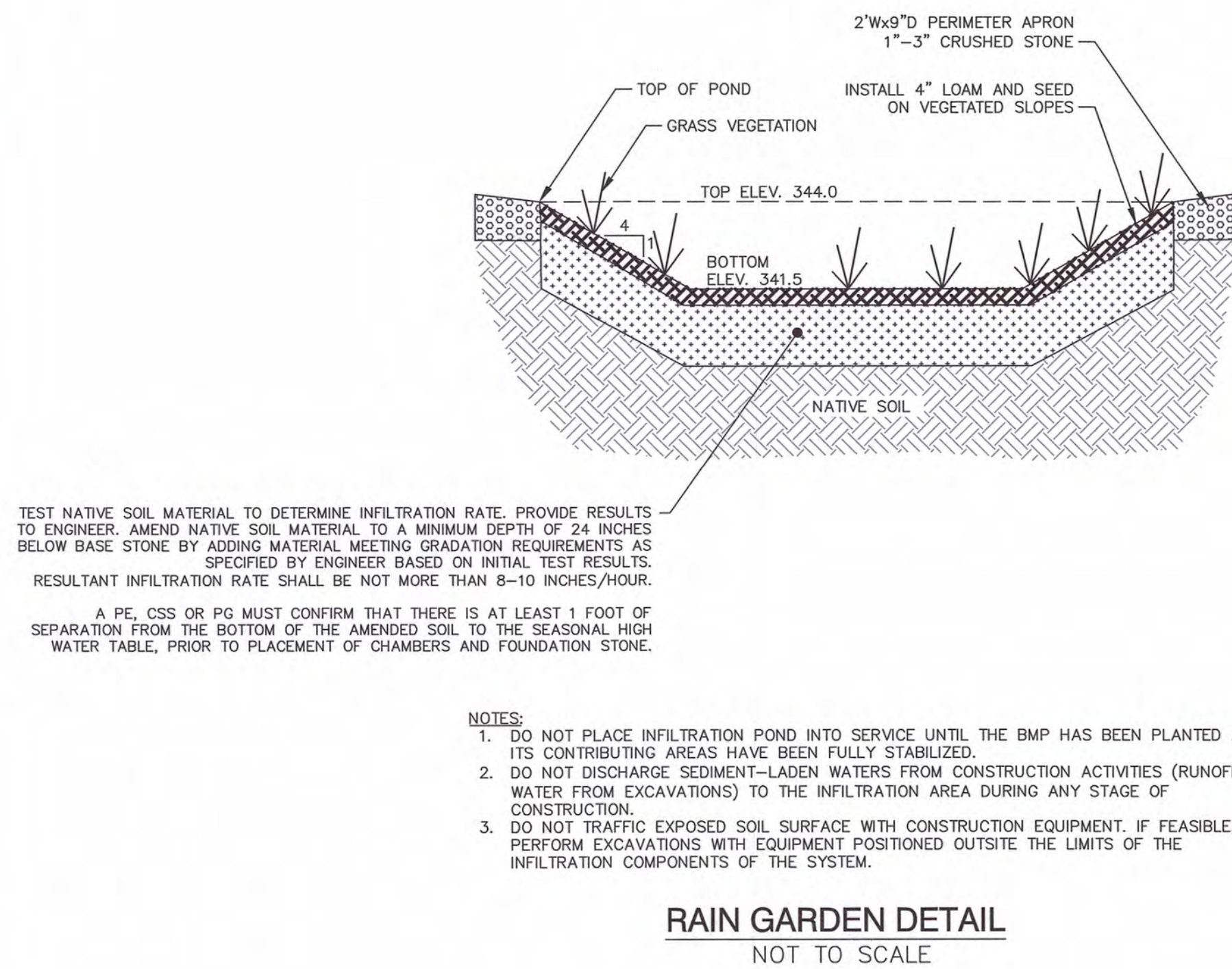
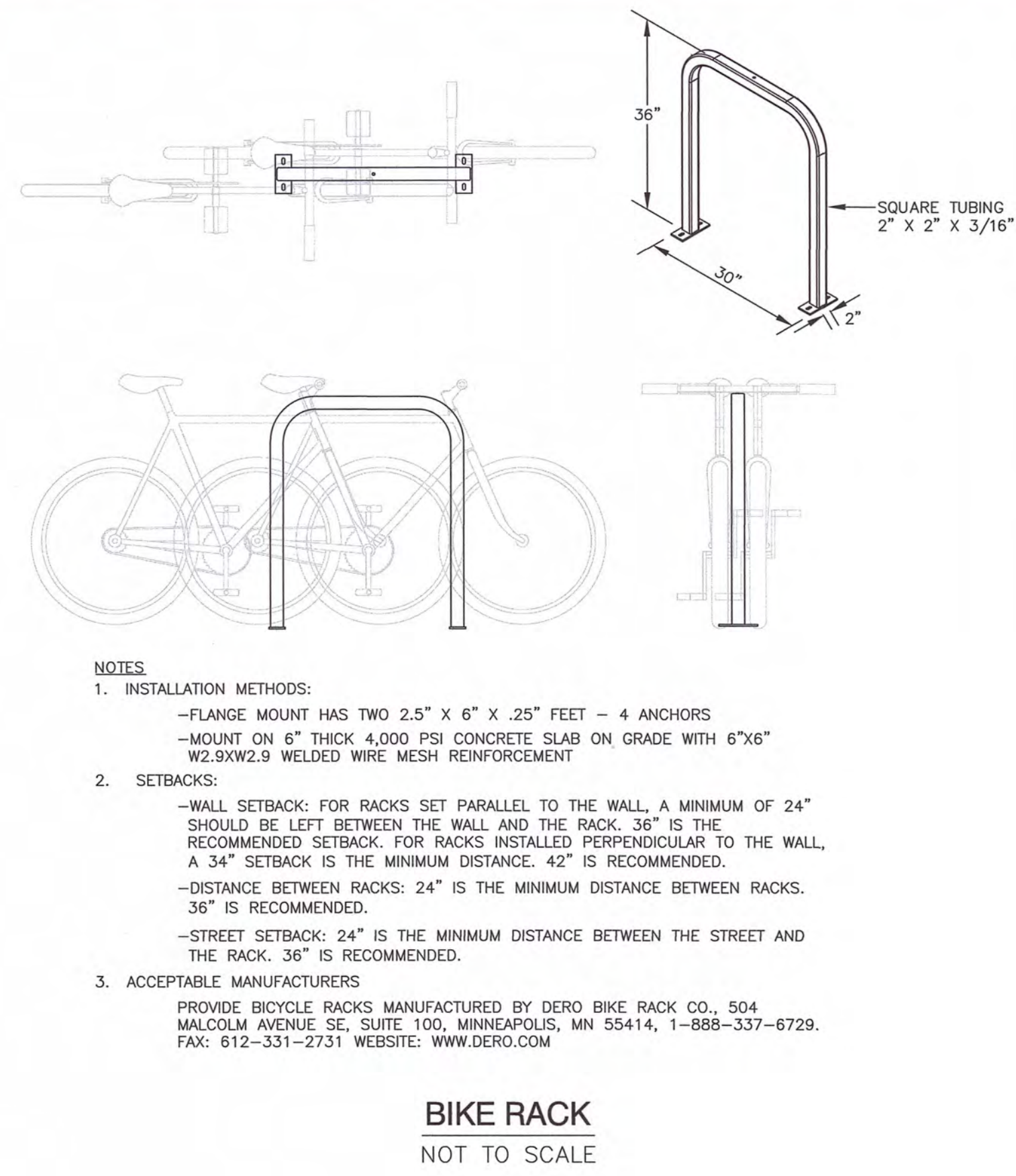
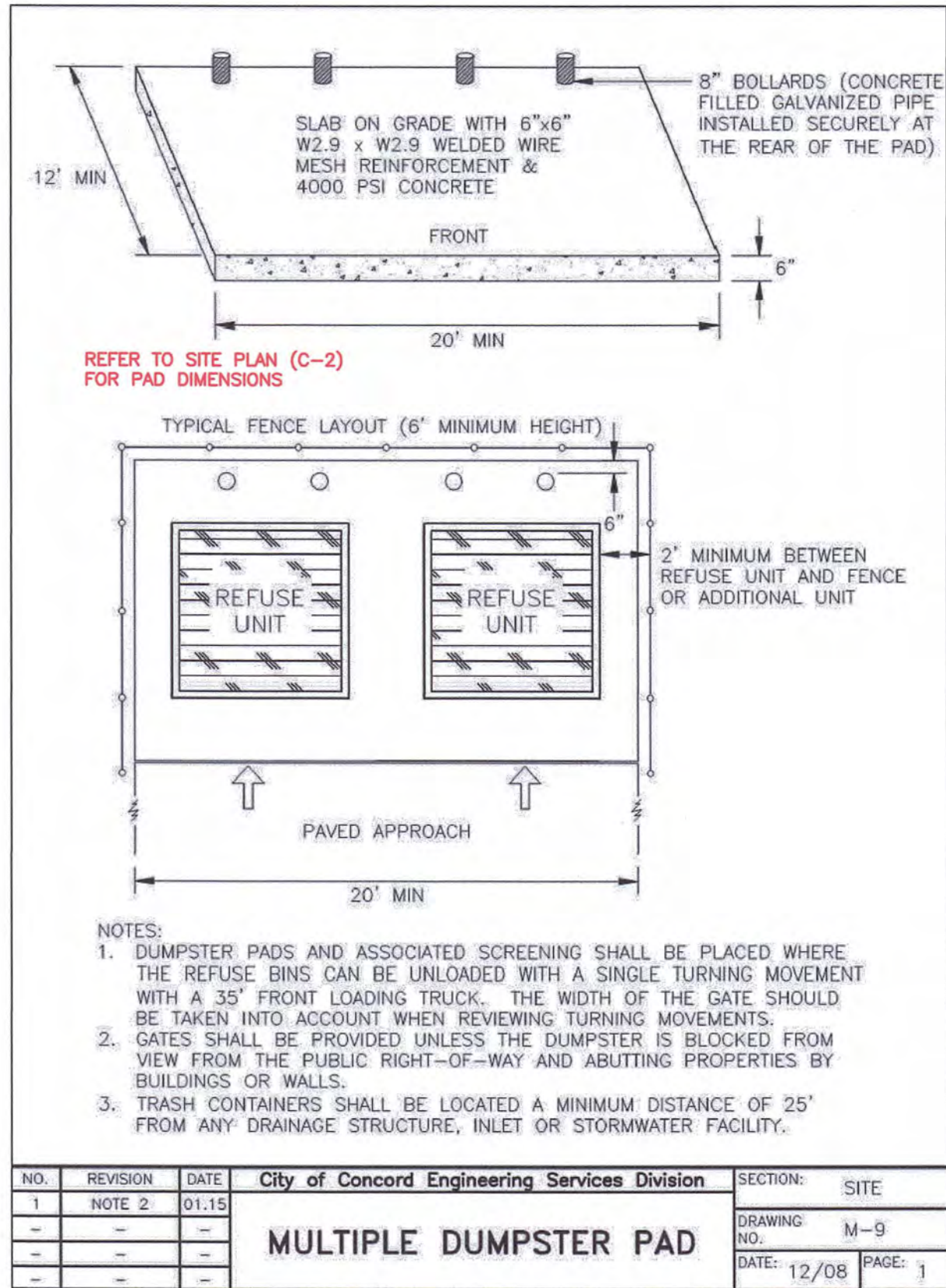
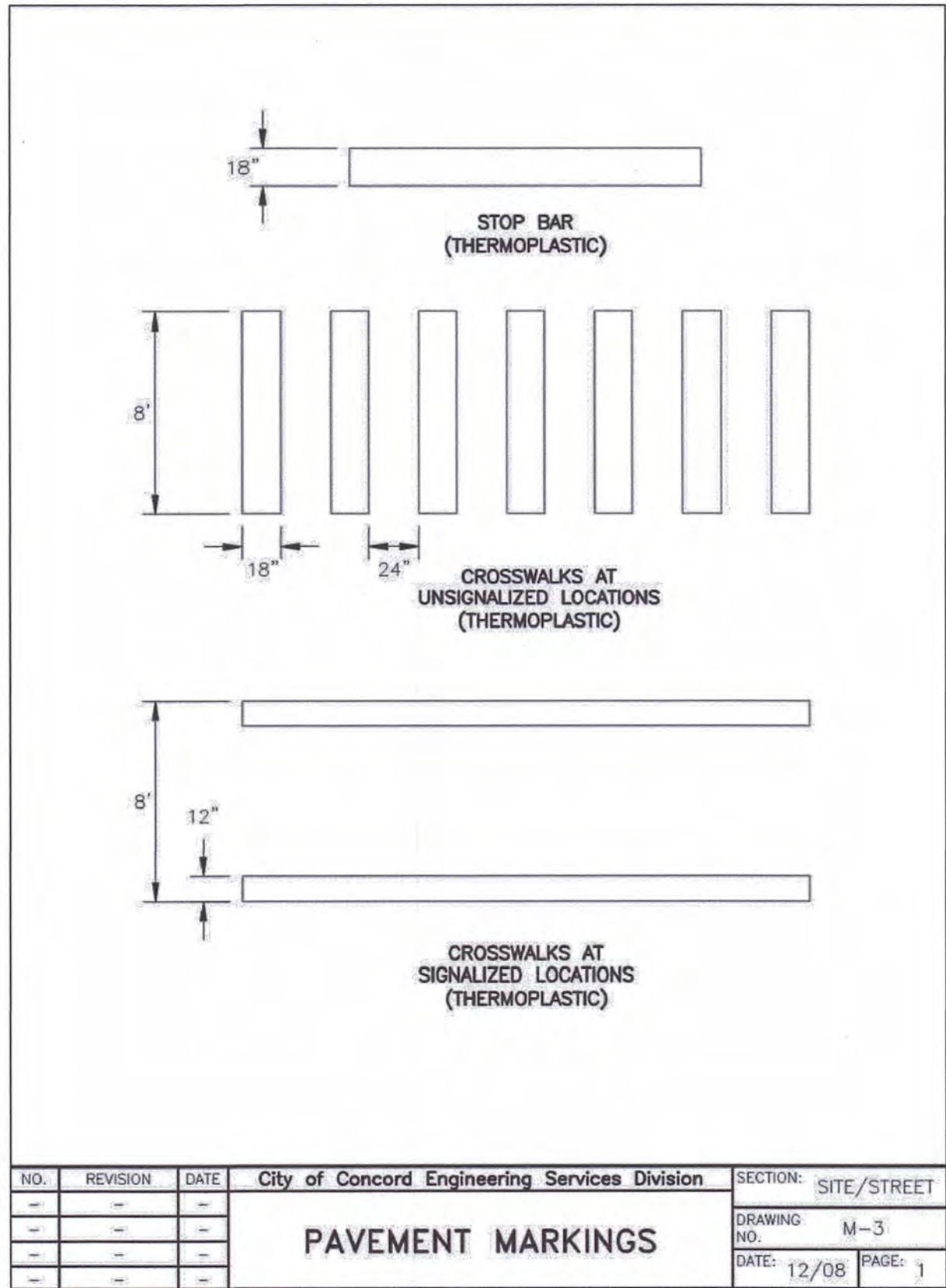
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SHEET TITLE

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CATCH NEIGHBORHOOD HOUSING

43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP 303/Z LOT 68

APPLICANT:
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SCALE:
AS NOTED

DATE: JUNE 12, 2026

NOBIS PROJECT NO. 101148.00

DRAWN BY: NCP

CHECKED BY: JCA

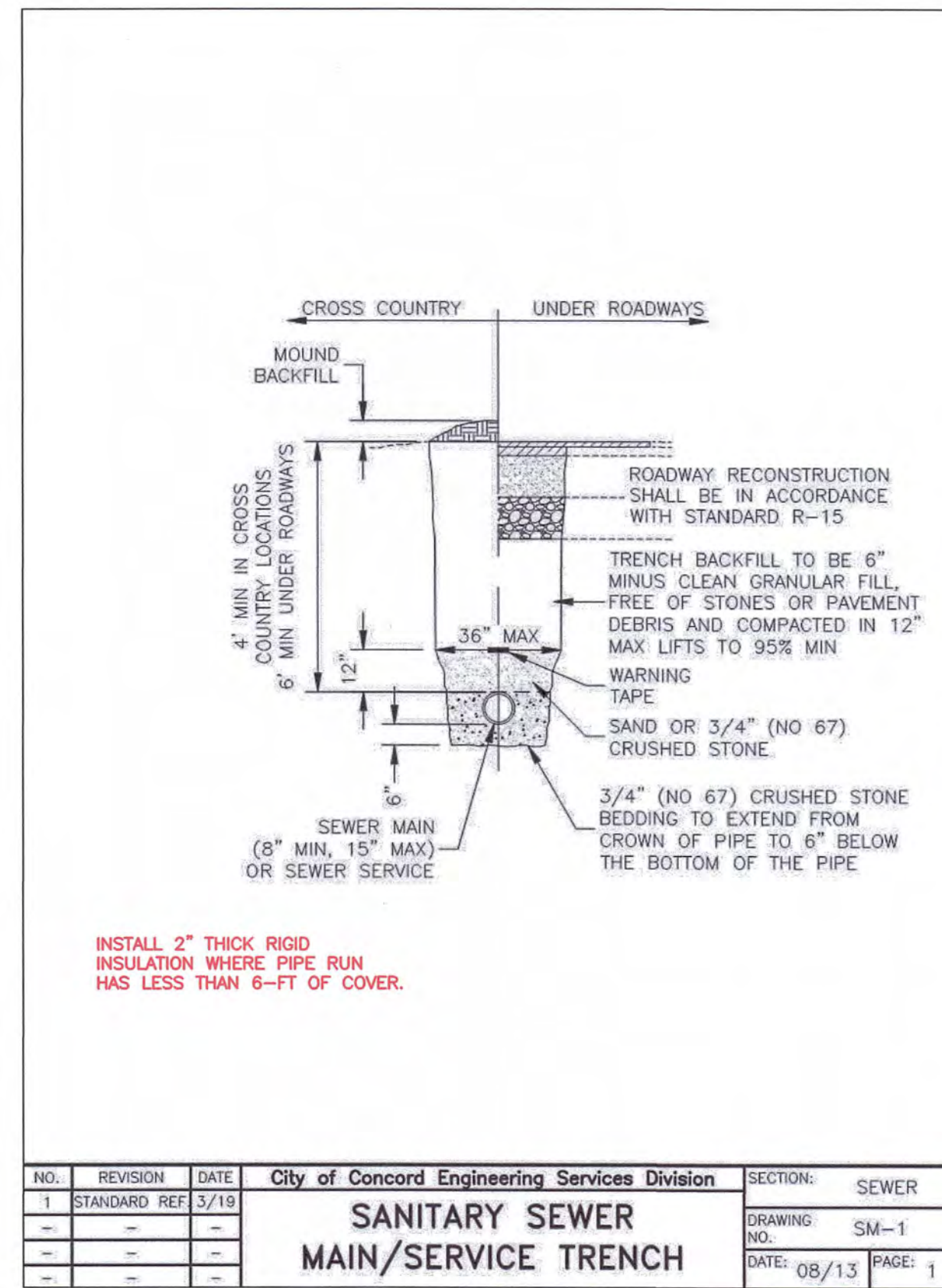
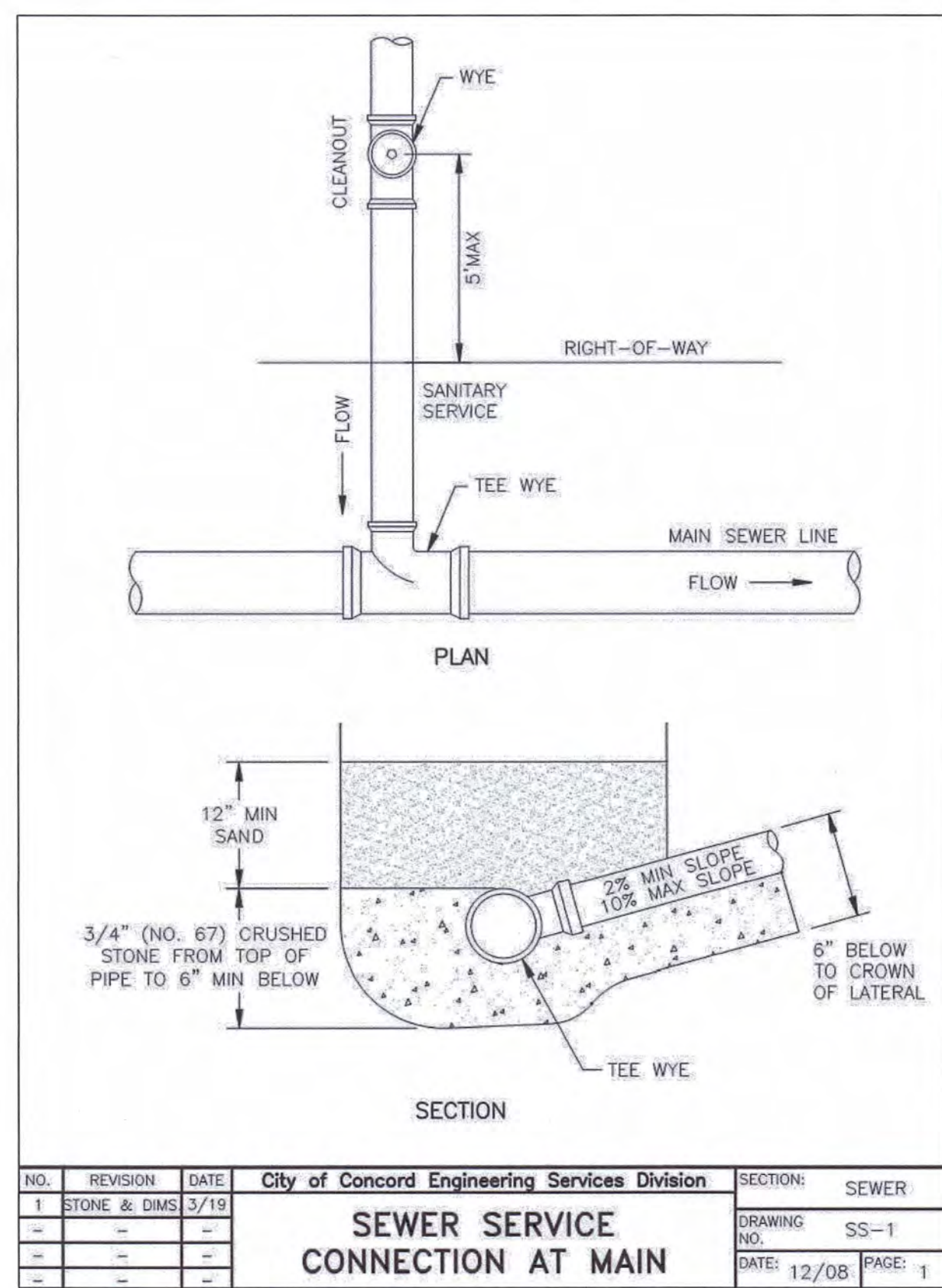
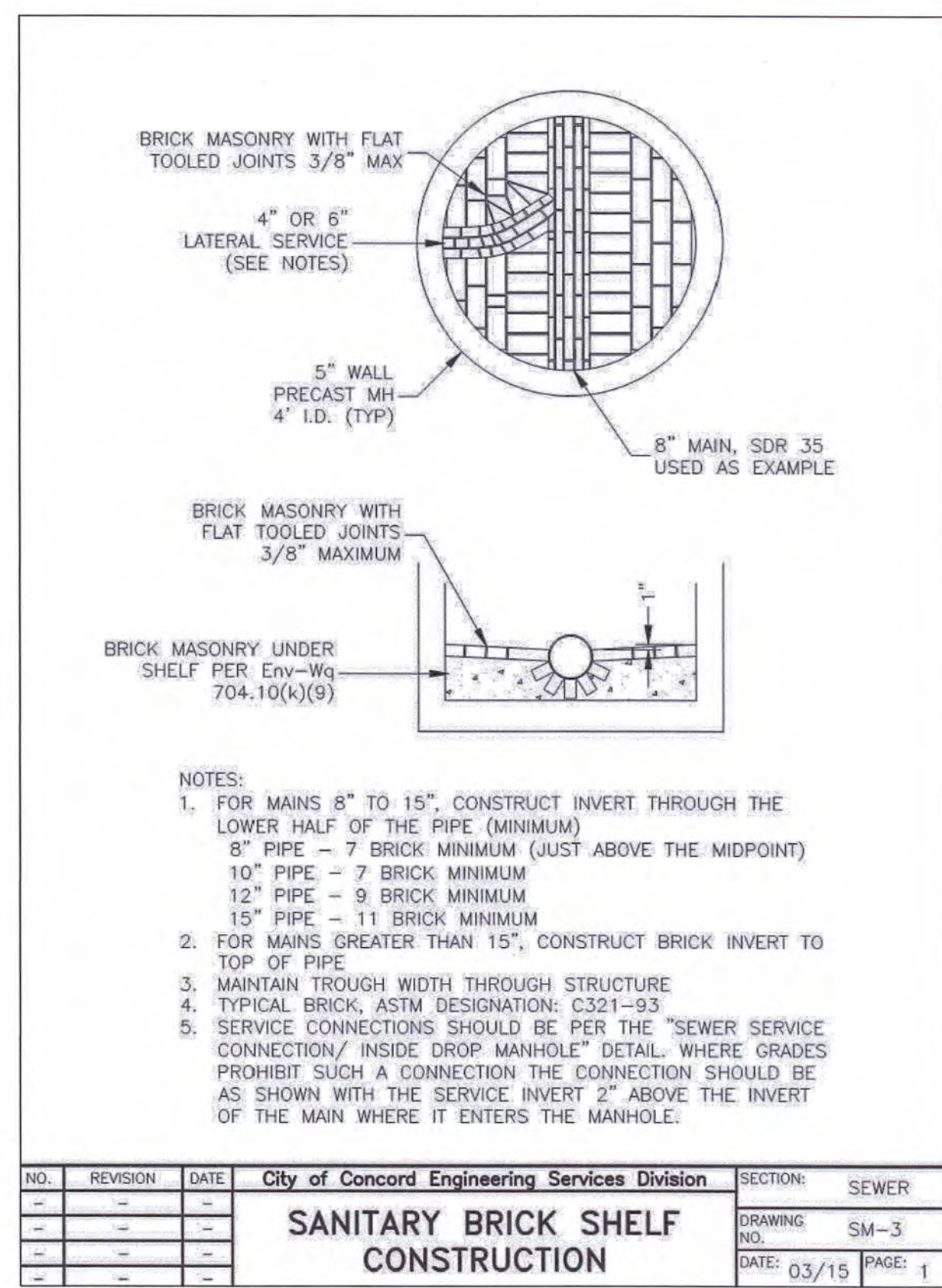
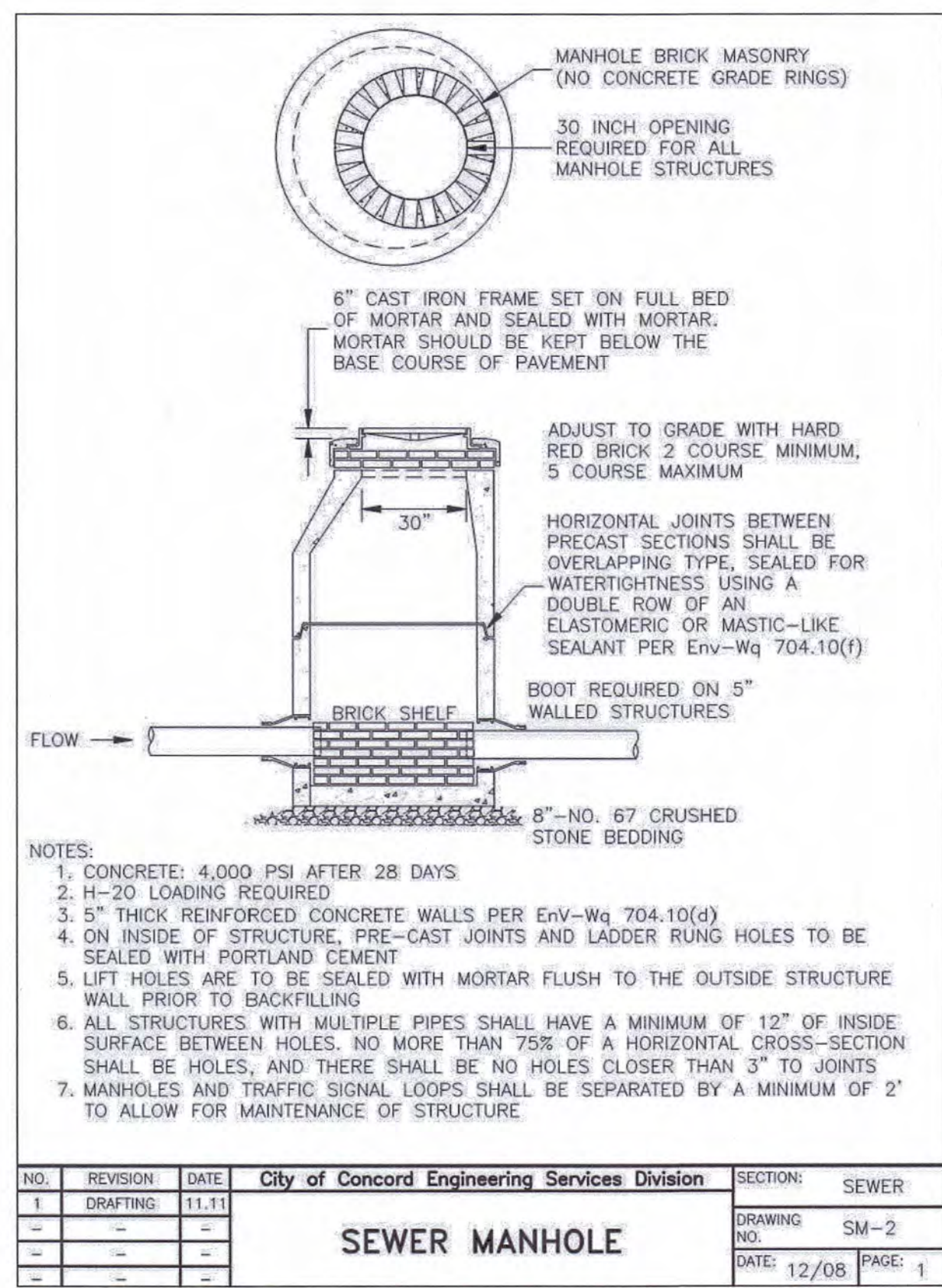
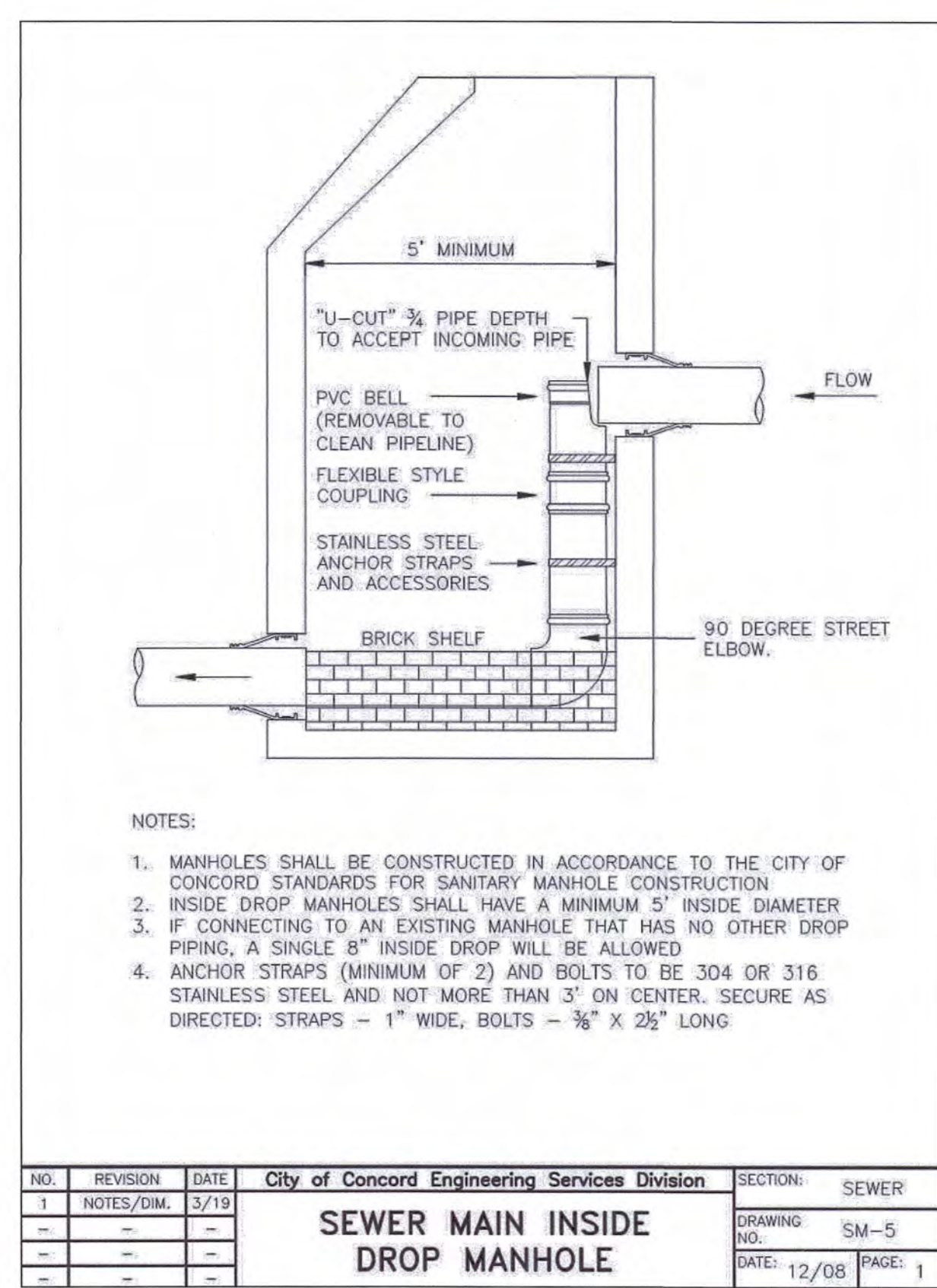
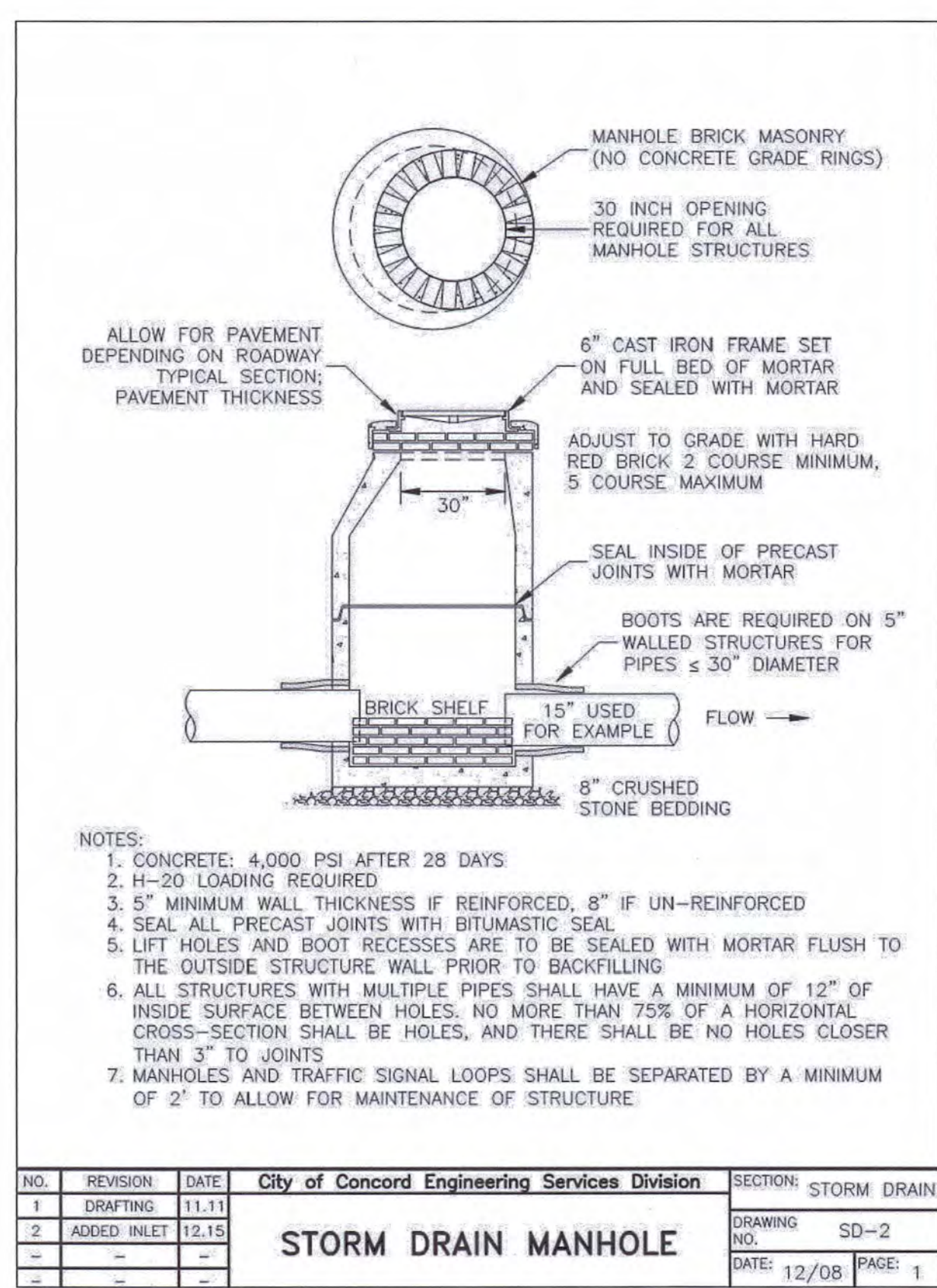
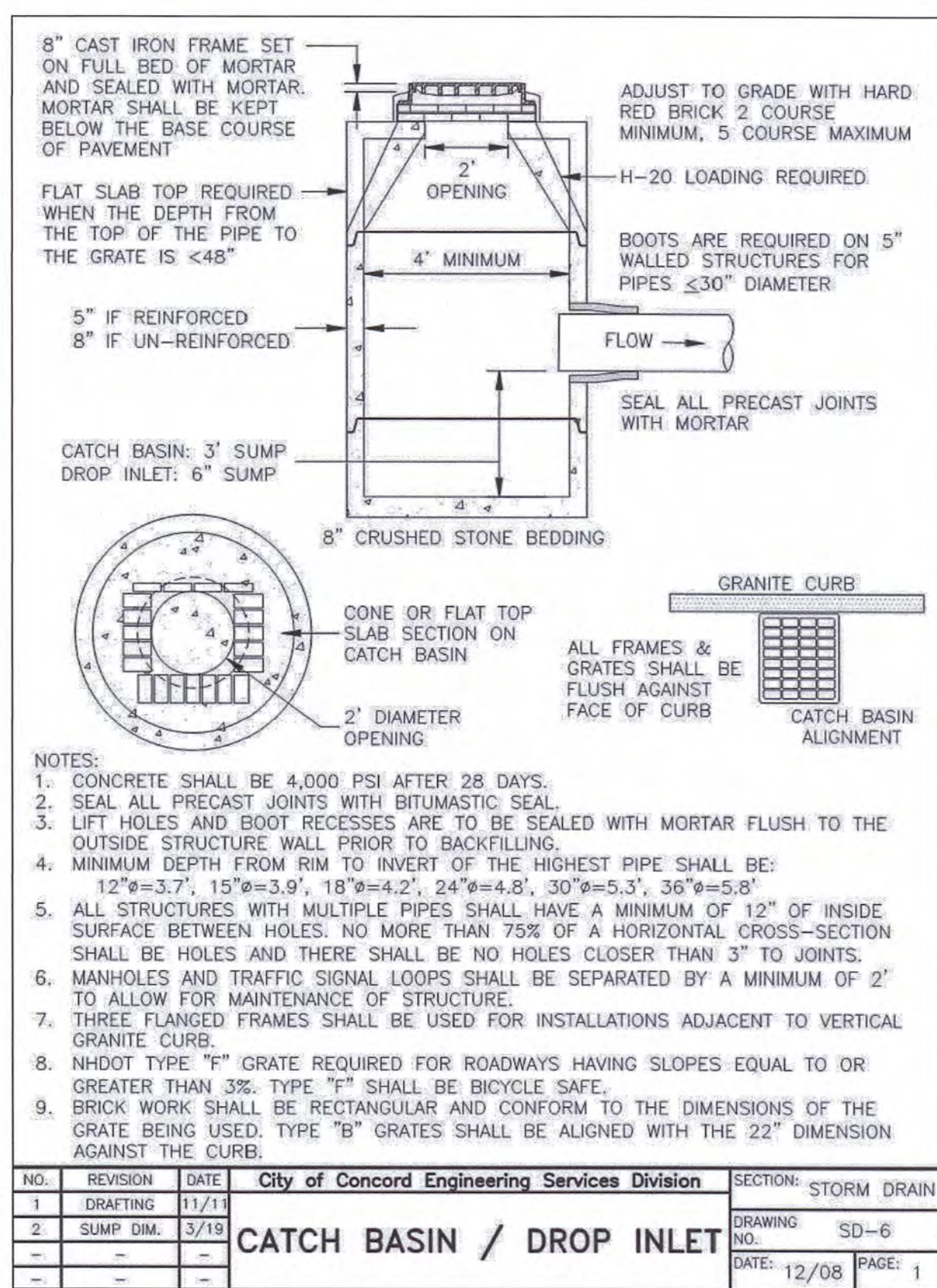
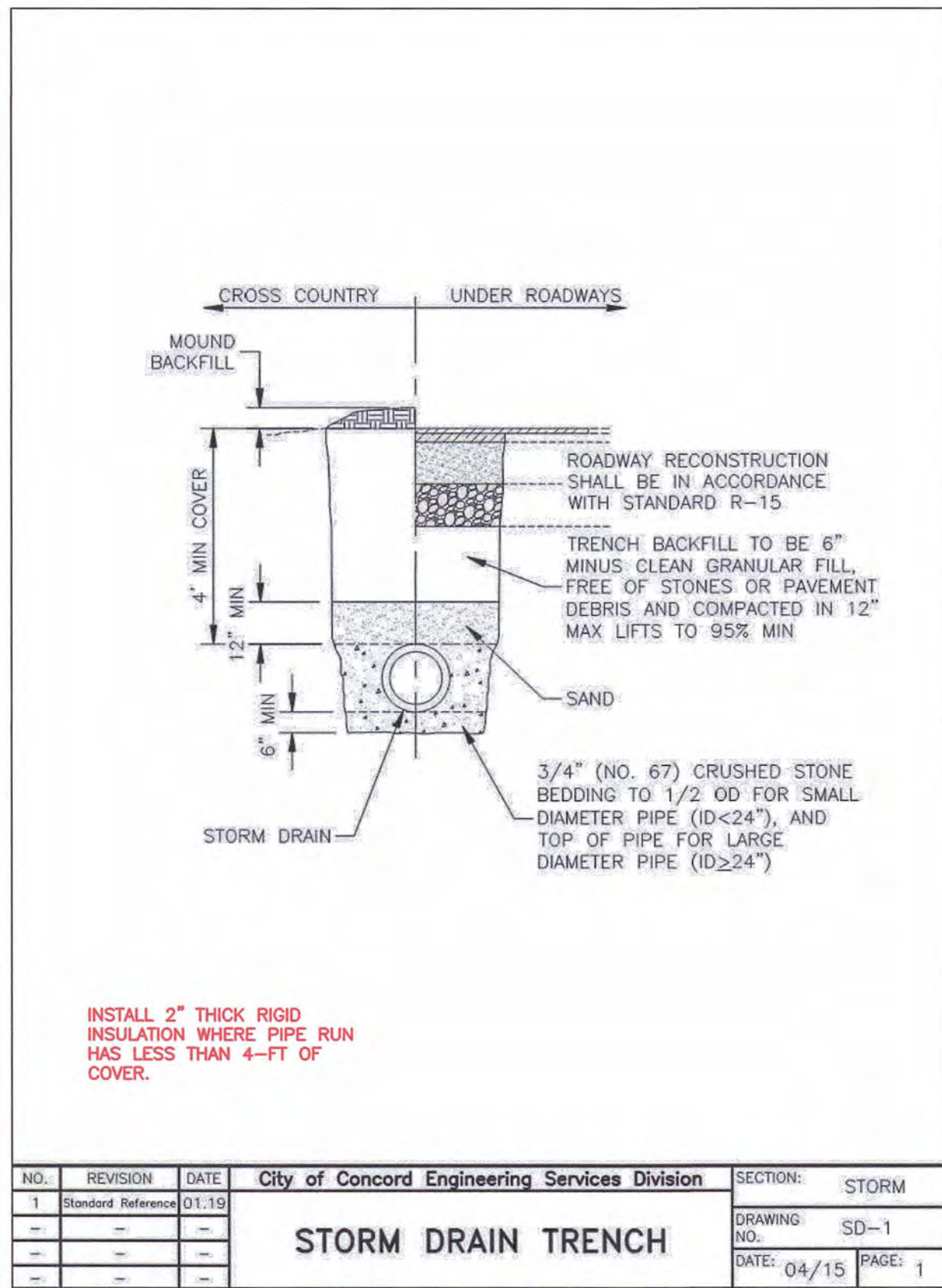
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SHEET TITLE

CONSTRUCTION DETAILS

SHEET
C-6.1

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NOT ISSUED
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CATCH NEIGHBORHOOD HOUSING

43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP 303/Z LOT 68

APPLICANT:
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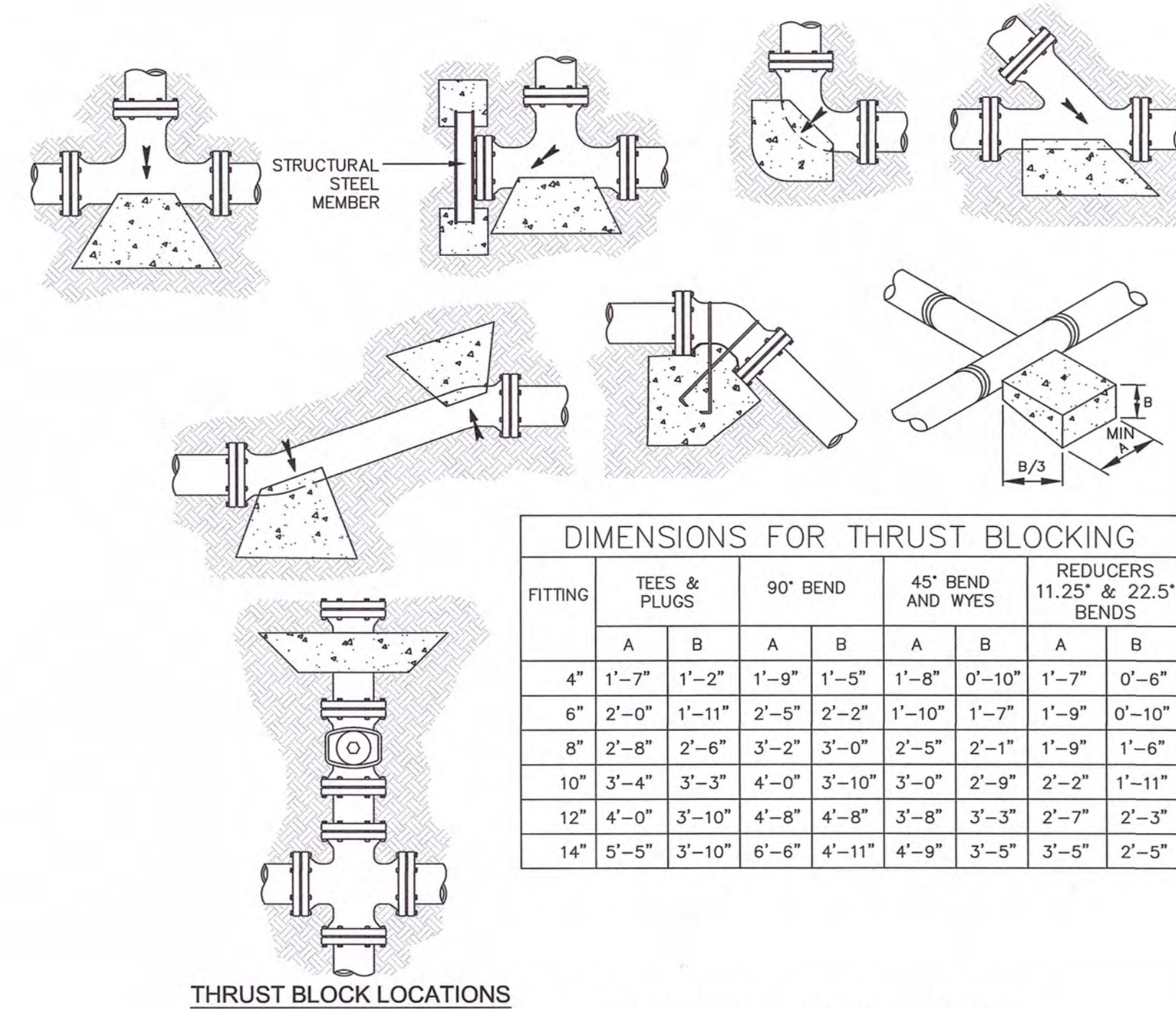
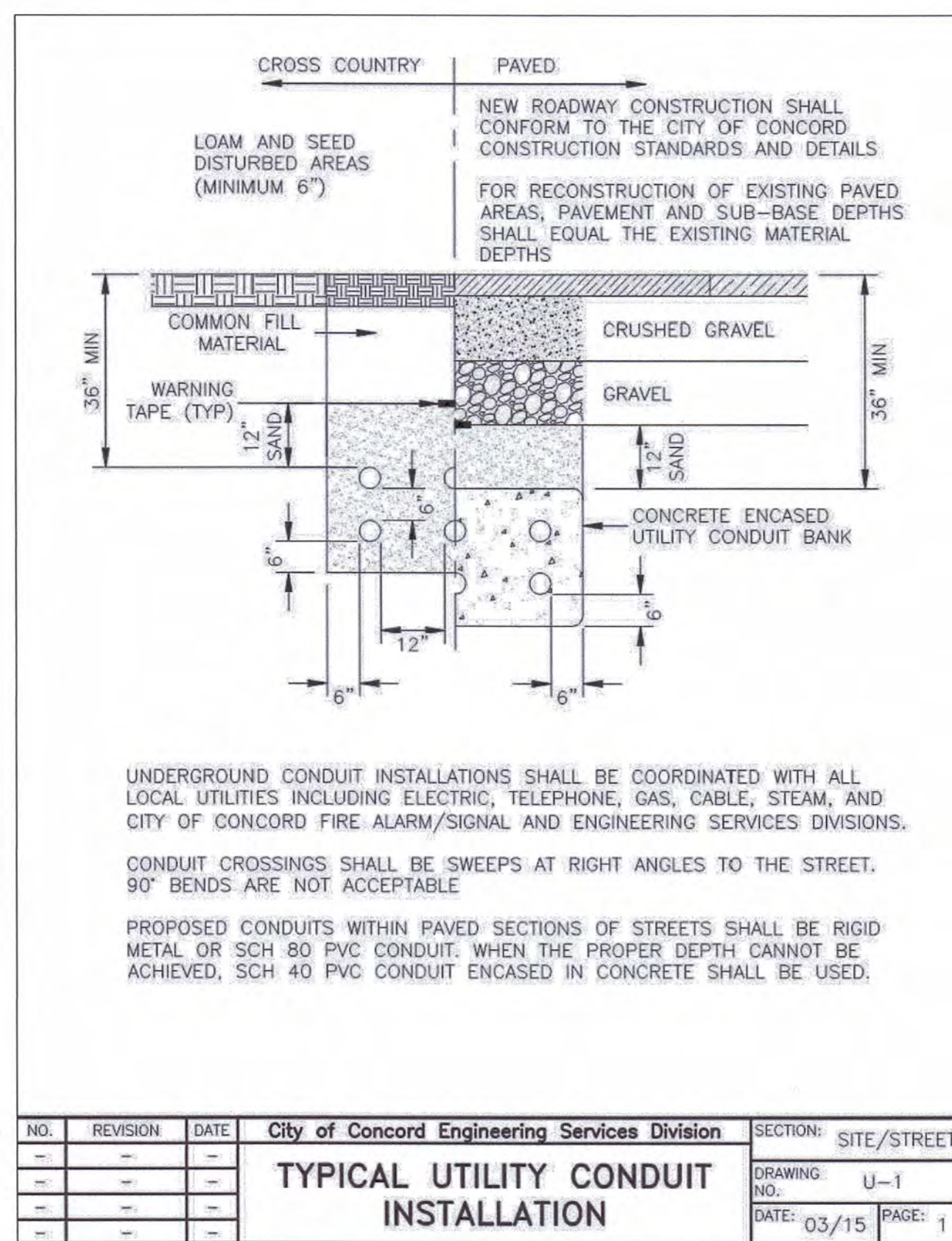
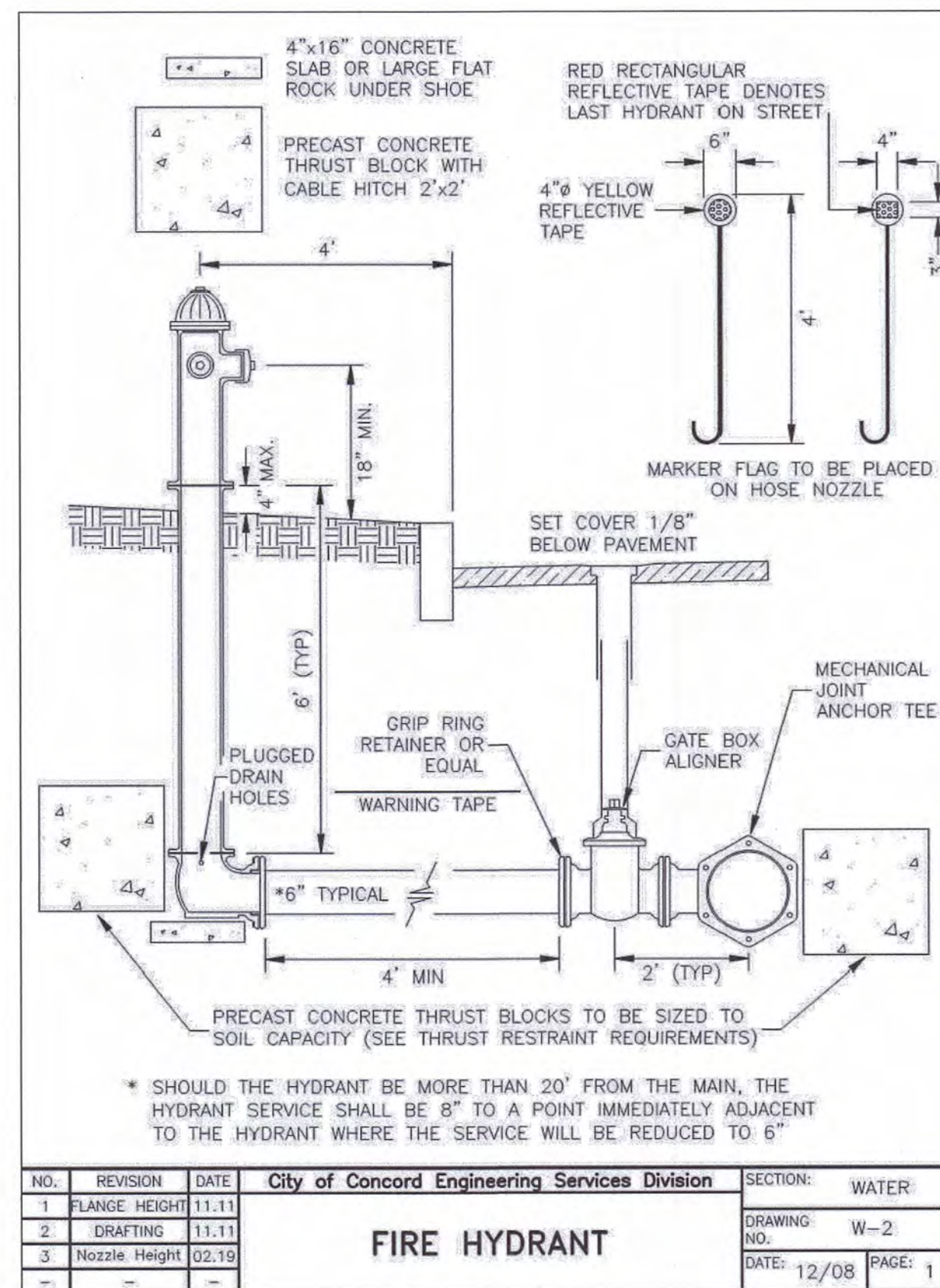
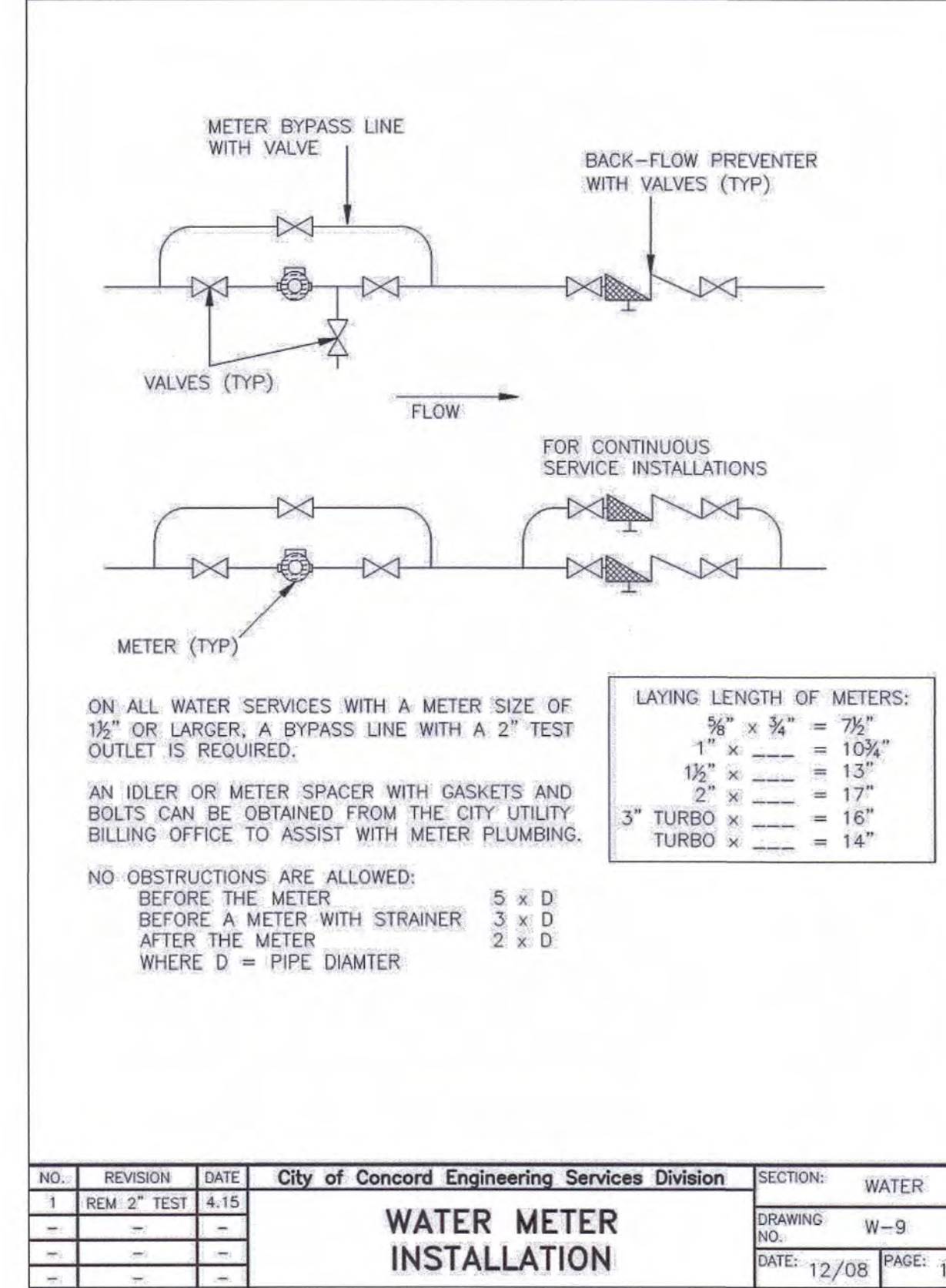
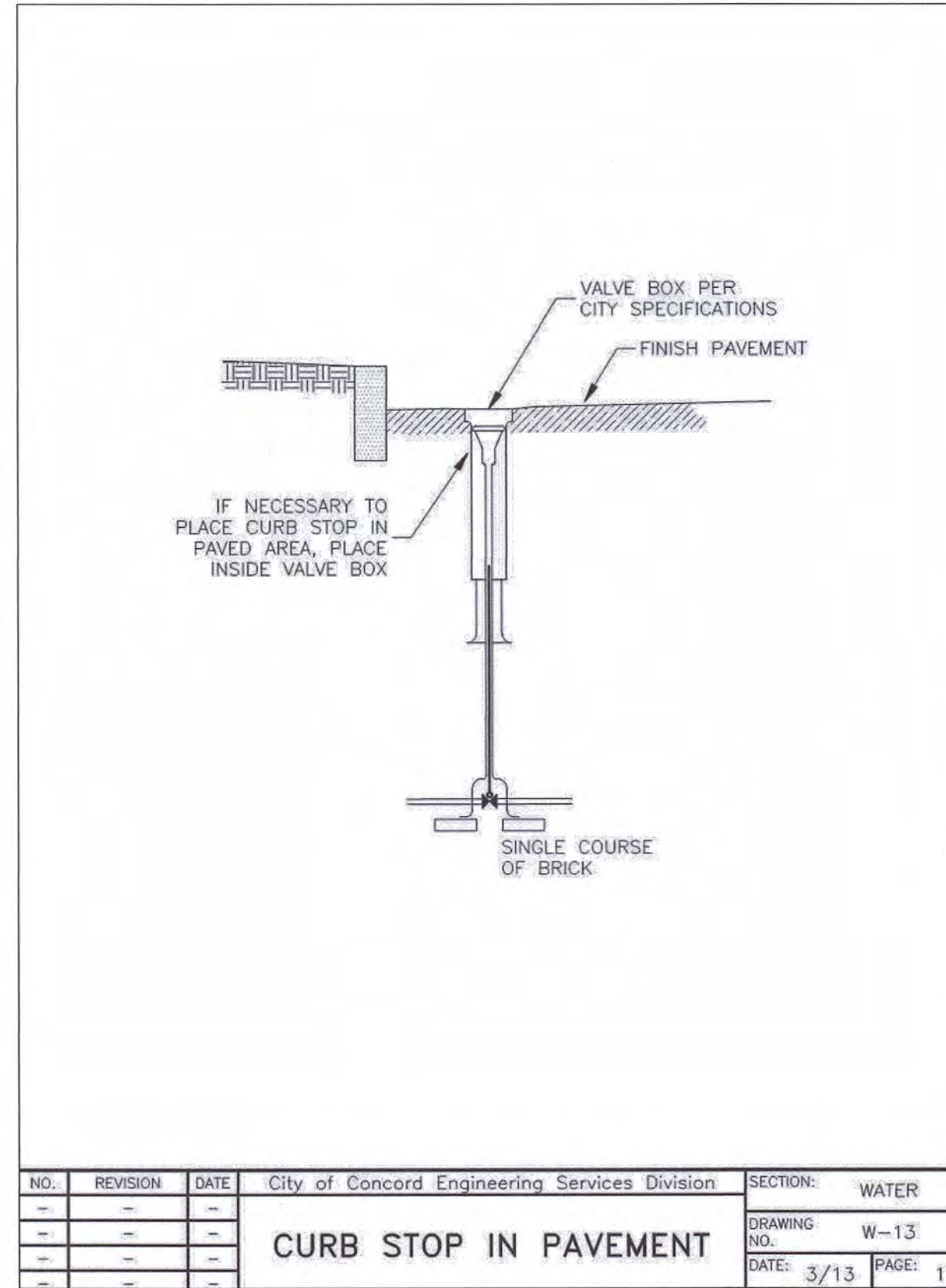
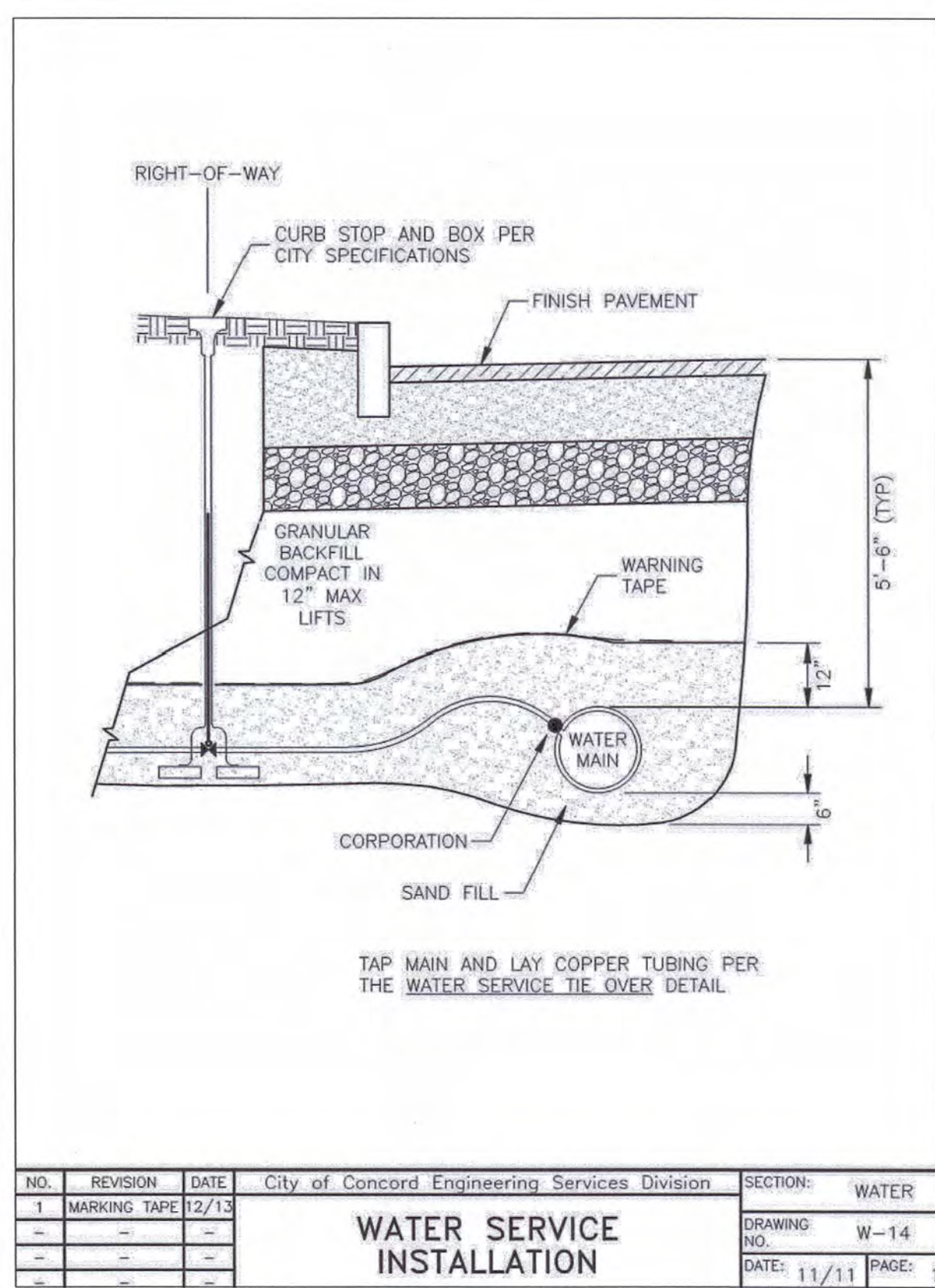
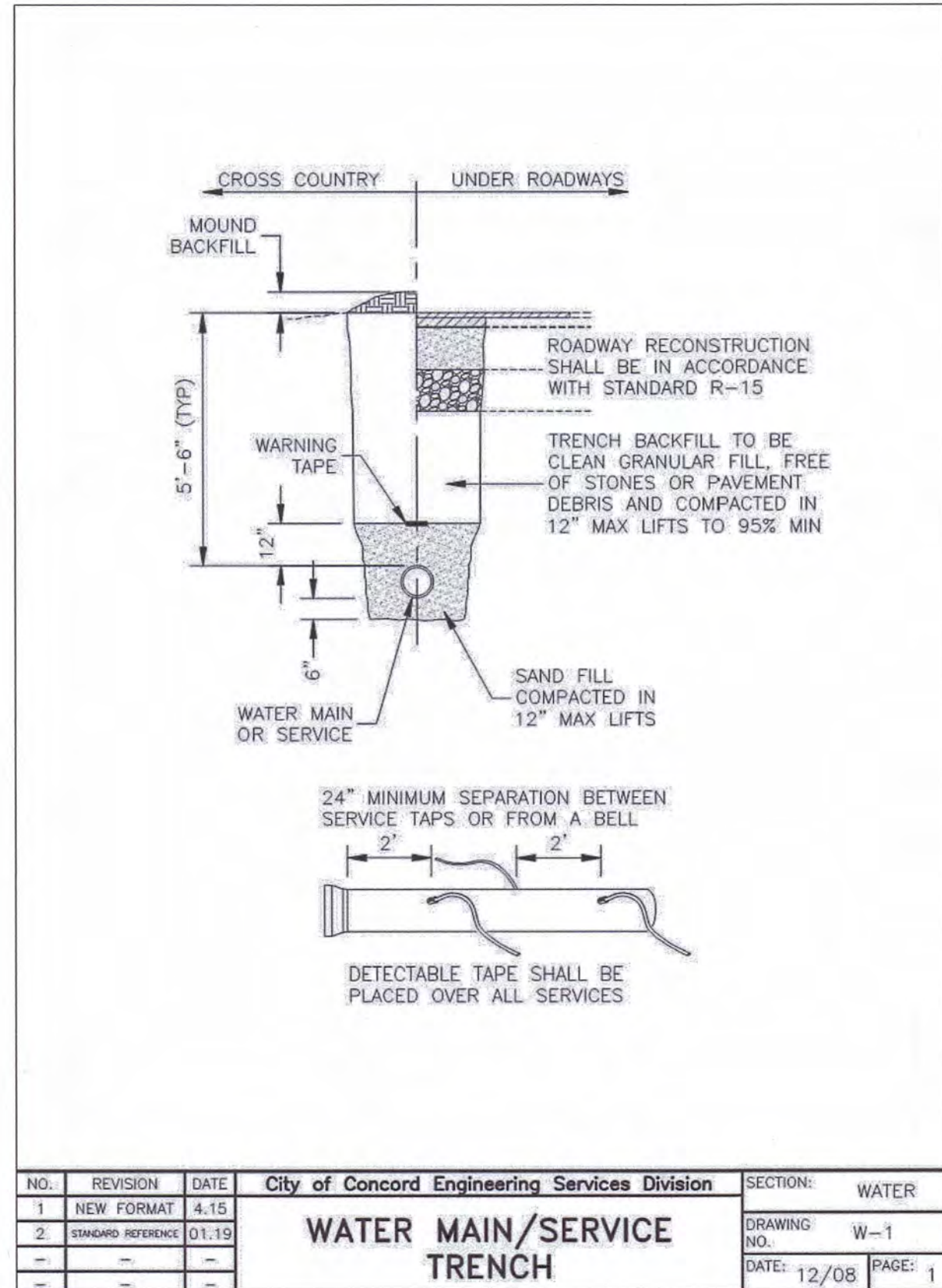
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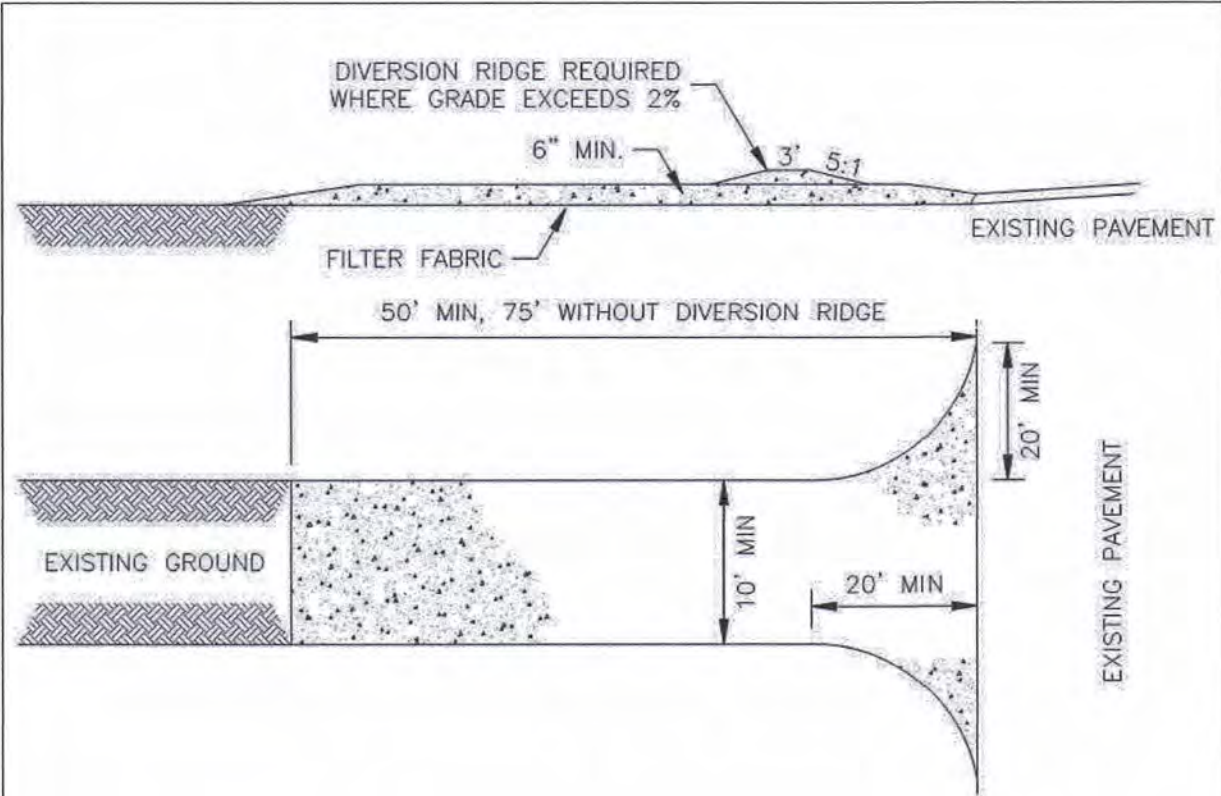
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CONSTRUCTION

CATCH NEIGHBORHOOD HOUSING
43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE
TAX MAP 303/Z LOT 68
APPLICANT:
CATCH NEIGHBORHOOD HOUSING
105 LOUDON ROAD, UNIT #1
CONCORD, NEW HAMPSHIRE
OWNER:
KEVIN F. SEIGEL
& GEORGE J. SEIGEL, JR.
P.O. BOX 1148
NORTH HAMPTON,
NEW HAMPSHIRE

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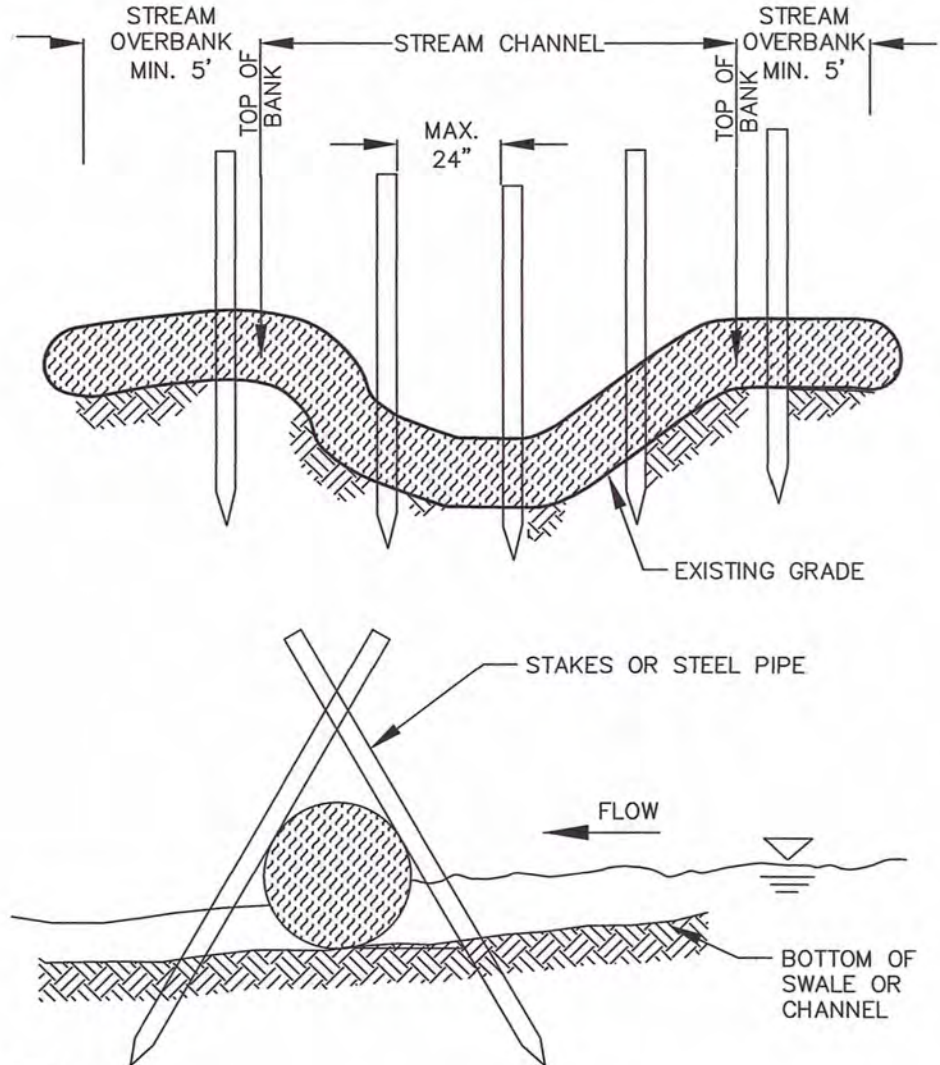
CONSTRUCTION REQUIREMENTS

1. STONE SIZE - 3" COARSE AGGREGATE.
2. THICKNESS - 6" MIN
3. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
4. LENGTH - NOT LESS THAN 50'. EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MIN LENGTH WOULD APPLY.
5. WIDTH - 10' MIN, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	EPSC
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CONSTRUCTION ENTRANCE
DETAIL

DATE: 01/08 PAGE: 1

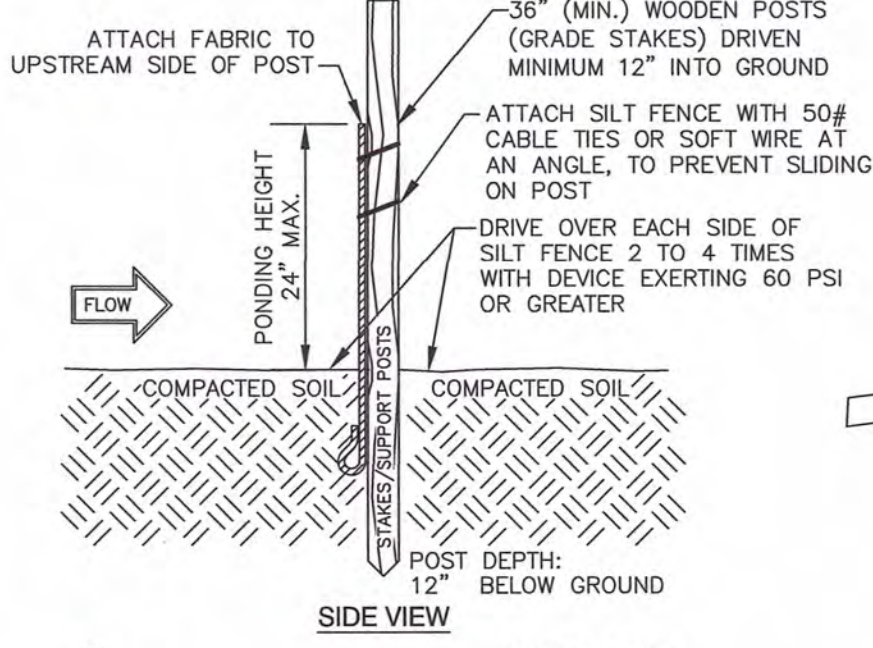


NOTES:

1. TEMPORARY SEDIMENT LOG (FILTREXX SILTSSXX OR APPROVED EQUAL) SHOULD BE LOCATED AS SHOWN ON EROSION CONTROL PLANS AND ACROSS ANY WATER COURSE DOWNSTREAM FROM THE CONSTRUCTION AREA.
2. STAKE SHOULD BE INTERWIND WITH THE OUTER MESH ONLY (ON THE DOWNSTREAM SIDE ONLY) AND PLACED A MINIMUM OF 610 MM (24") INTO GROUND.
3. PROVIDE PERIODIC REMOVAL OF ACCUMULATED DEBRIS AND SEDIMENTS DURING CONSTRUCTION AND PRIOR TO DISMANTLING.

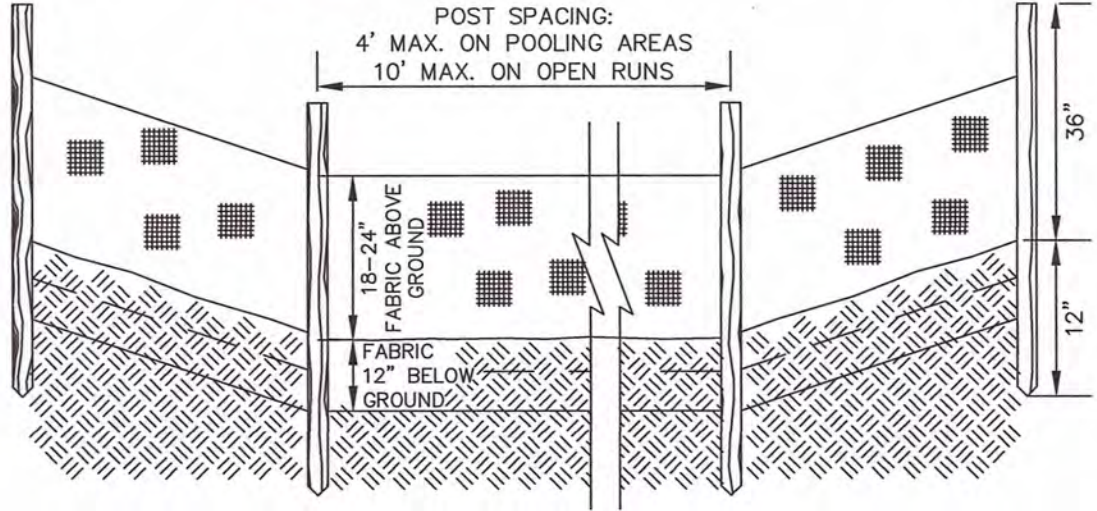
TEMPORARY SEDIMENT LOG

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TYPICAL SILT FENCE LAYOUT

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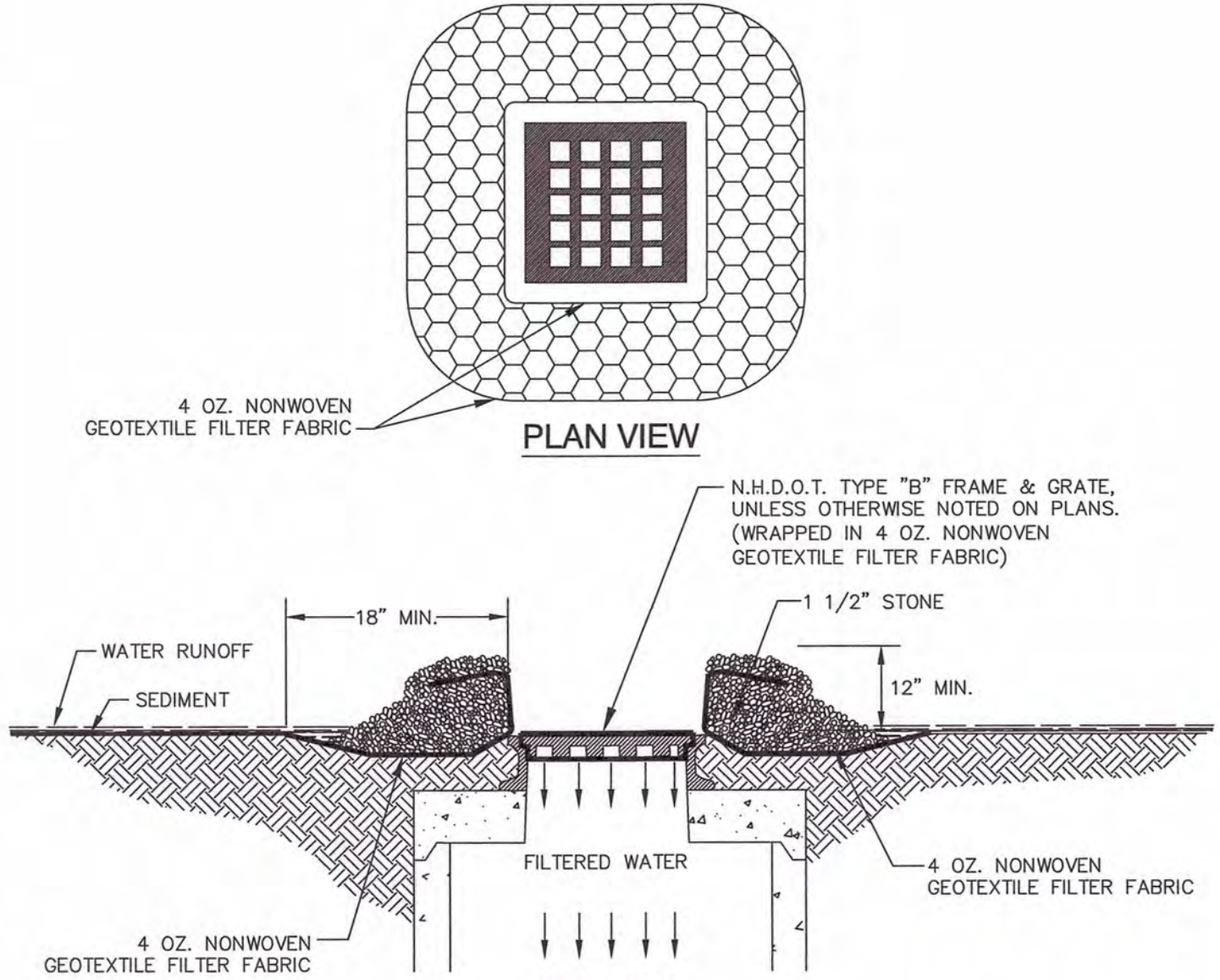
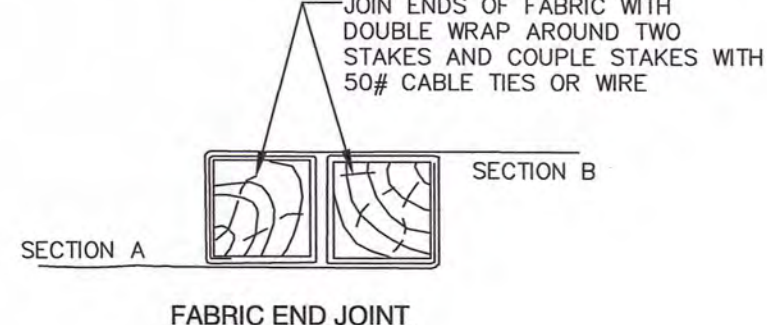
JOINING SECTIONS

SILT FENCE INSTALLATION

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SPECIFICATIONS FOR SILT FENCE INSTALLATION

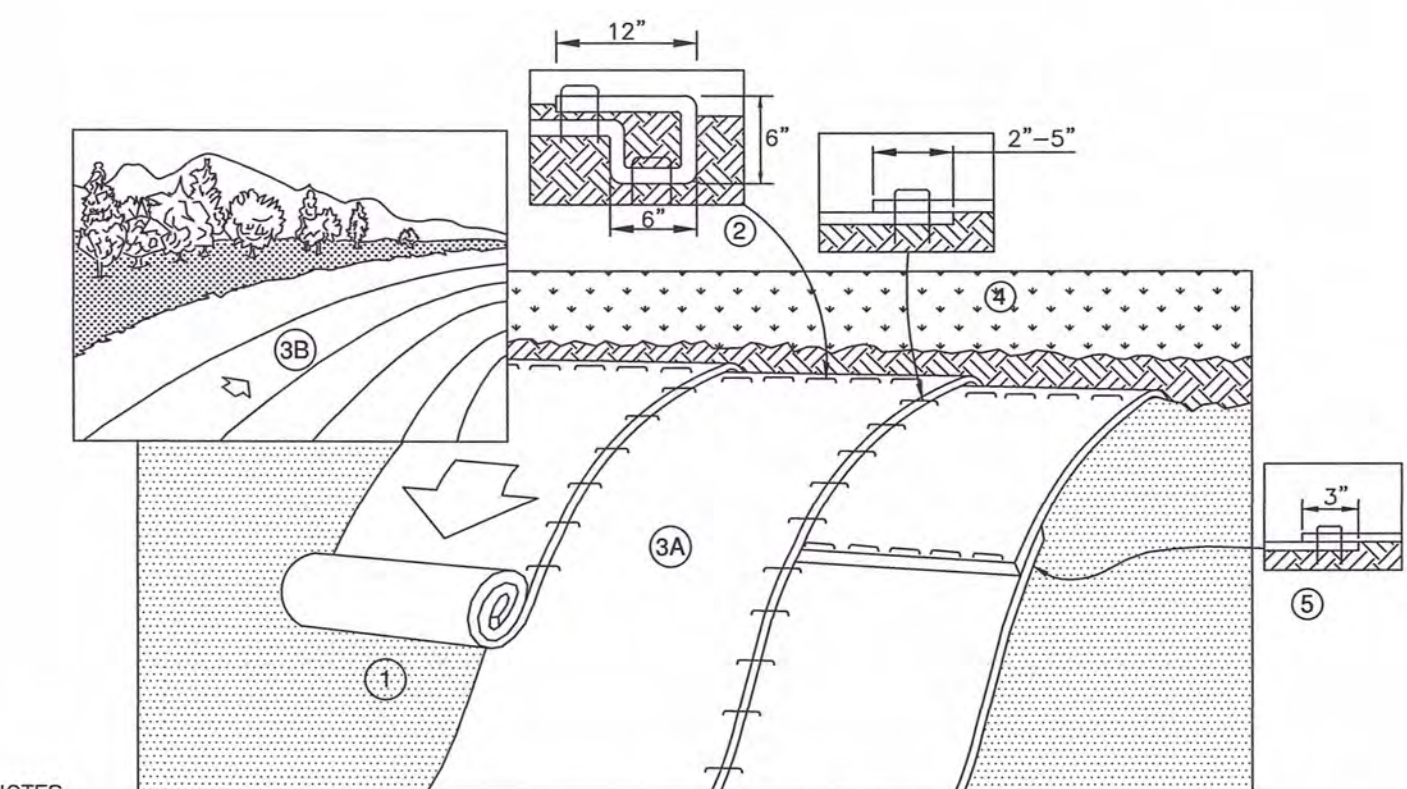
1. INSTALL POSTS 4 FEET APART IN CRITICAL WATER RETENTION AREAS AND 6-10 FEET APART ON STANDARD APPLICATIONS.
2. INSTALL POSTS 12 INCHES DEEP ON THE DOWN HILL SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC.
3. SECURELY ATTACH THE FABRIC TO EACH POST WITH TIES SECURED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 2" VERTICALLY APART.
4. WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
5. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION. USE A FLAT-BLADED SHOVEL TO TUCK FABRIC DEEPER INTO THE SILT IF NECESSARY.
6. COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQUARE INCH.



SECTION

TEMPORARY CATCH BASIN INLET PROTECTION

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NOTES:

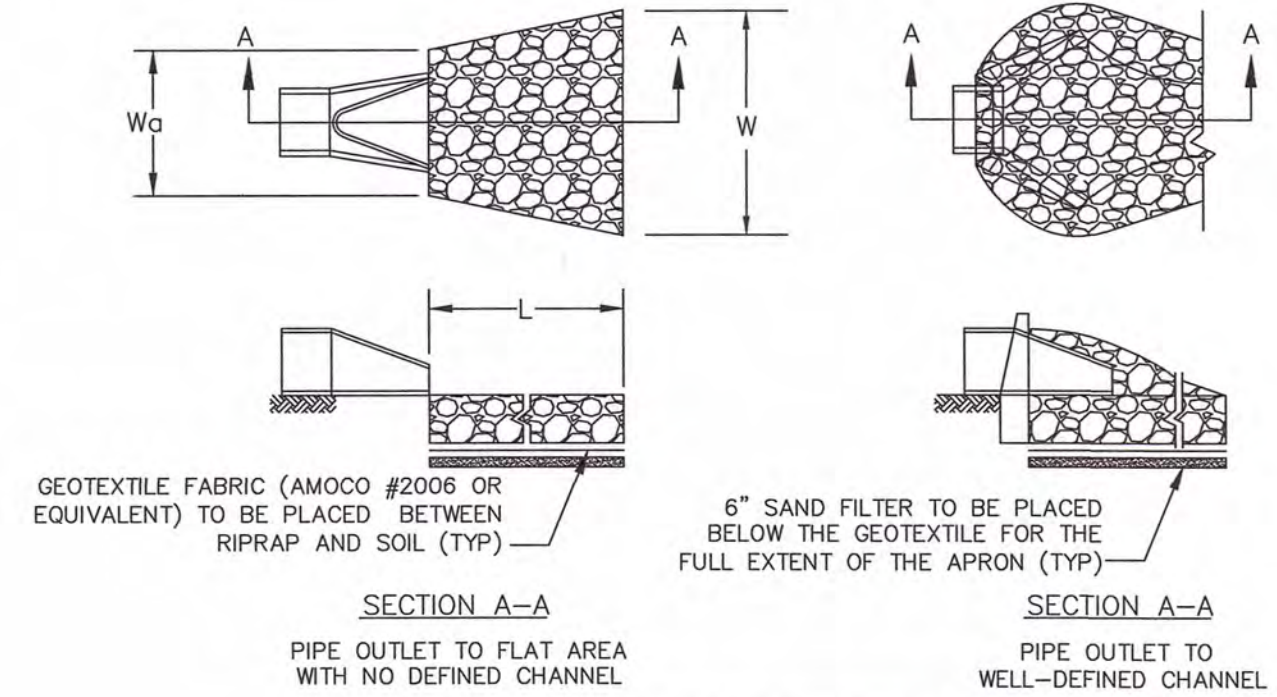
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-0-SEED DO NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.



NORTH AMERICAN GREEN
14649 HIGHWAY 41 NORTH
EVANSVILLE, INDIANA 47725
1-800-772-2040

EROSION CONTROL BLANKET SLOPE INSTALLATION
(NORTH AMERICAN GREEN)

NOT TO SCALE



STRUCTURE	W _a	W	L	RIP RAP SIZE D50 (INCHES)
CB1 OUTLET	3'	11'	8'	4
CB2 OUTLET	3'	11'	8'	4
CB3 OUTLET	1.5'	11'	8'	4

TABLE 7-24--RECOMMENDED RIPRAP GRADATION RANGES			
THICKNESS OF RIPRAP = (2.25xd50) FEET (6"min)			
d50 SIZE = 4 INCHES			
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM		TO
100%	(1.5xd50)	(2.0xd50)	
85%	(1.3xd50)	(1.8xd50)	
50%	(1.0xd50)	(1.5xd50)	
15%	(0.3xd50)	(0.5xd50)	

NOTES:

1. THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIPRAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
2. THE RIPRAP SHALL CONFORM TO THE SPECIFIED GRADATION.
3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIPRAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
4. STONE FOR THE RIPRAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
5. OUTLETS TO A DEFINED CHANNEL SHALL HAVE 2:1 OR FLATTER SIDE SLOPES AND SHOULD BEGIN AT THE TOP OF THE CULVERT AND TAPER DOWN TO THE CHANNEL BOTTOM THROUGH THE LENGTH OF THE APRON.
6. MAINTENANCE: THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIPRAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO OUTLET PROTECTION.

RIP RAP OUTLET PROTECTION APRON

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CATCH
NEIGHBORHOOD
HOUSING

43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP 303/Z LOT 68

APPLICANT:
CATCH NEIGHBORHOOD HOUSING
105 LOUDON ROAD, UNIT #1
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OWNER:
KEVIN F. SEIGEL
& GEORGE J. SEIGEL, JR.
P.O. BOX 1148
NORTH HAMPTON,
NEW HAMPSHIRE

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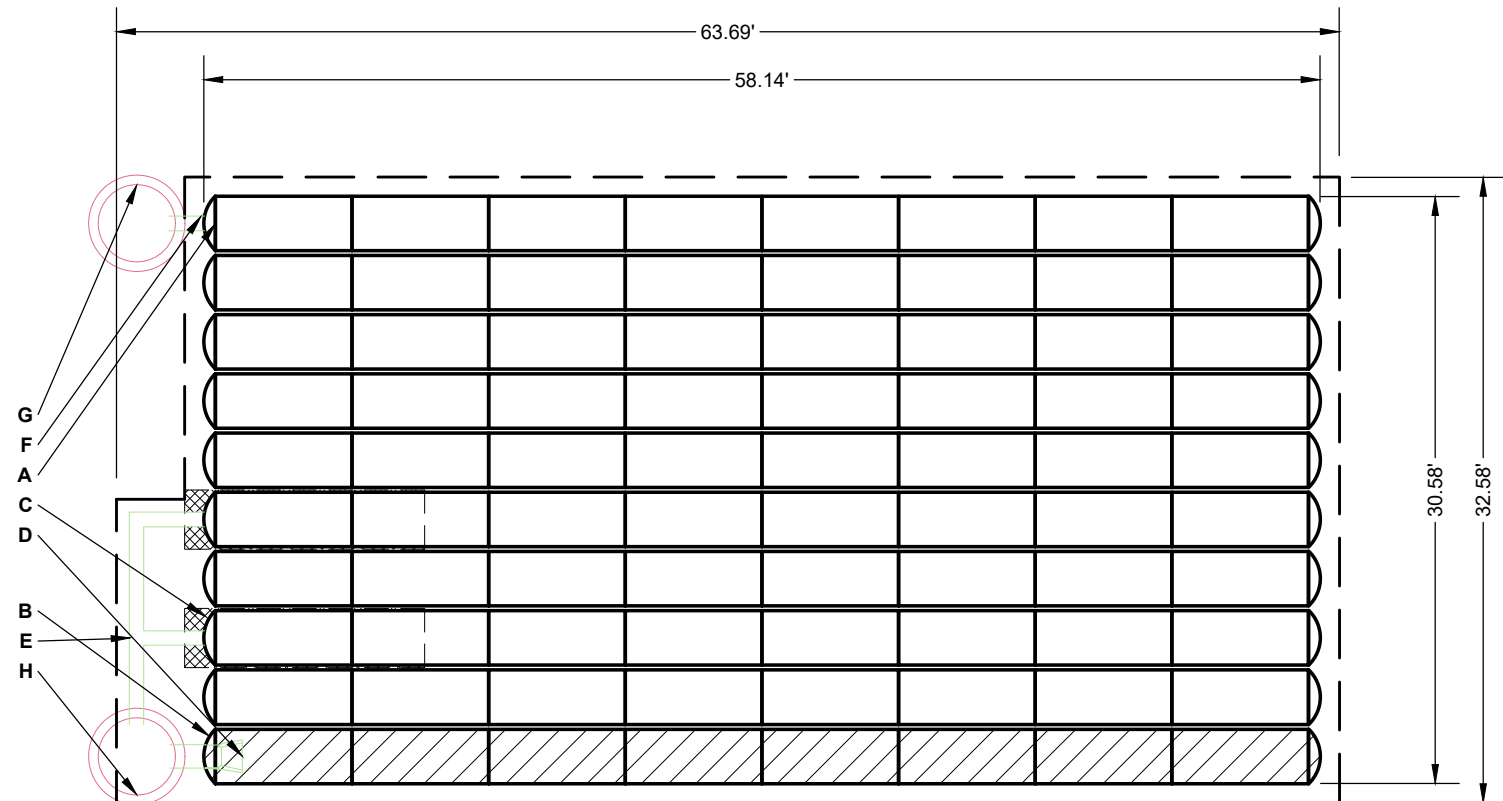
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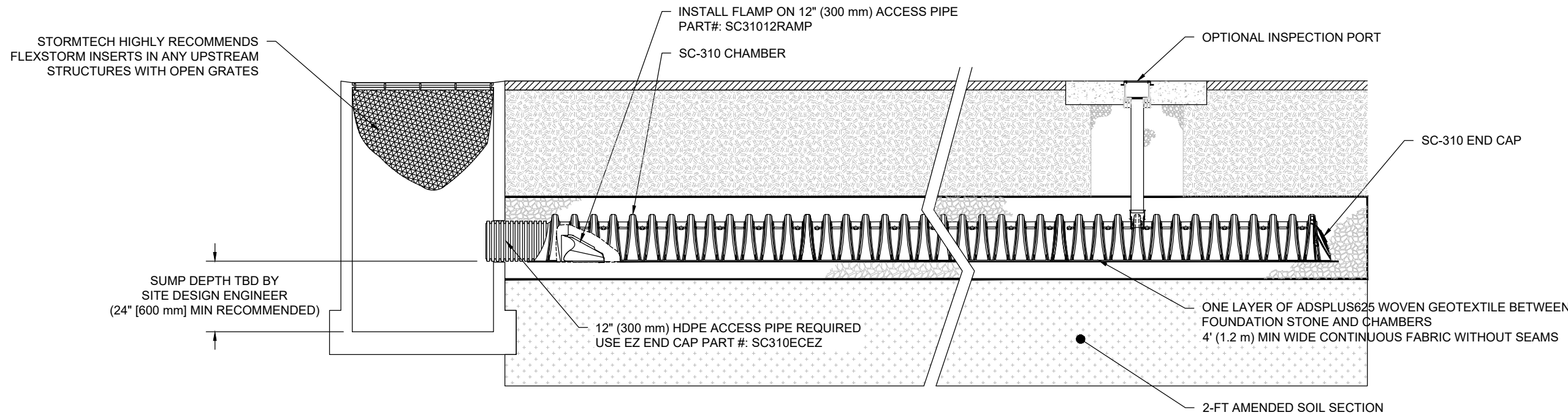
SHEET
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ELEVATIONS	
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	352.33
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	346.17
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	345.67
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	345.67
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	345.67
TOP OF STONE:	344.83
TOP OF SC-310 CHAMBER:	344.53
6" TOP CONNECTION INVERT:	343.48
8" x 8" TOP MANIFOLD INVERT:	343.29
12" ISOLATOR ROW PLUS INVERT:	343.07
BOTTOM OF SC-310 CHAMBER:	343.00
BOTTOM OF STONE:	342.50

PART TYPE	ITEM ON LAYOUT	DESCRIPTION
PRE-CORED END CAP	A	6" TOP PRE-CORED END CAP, PART#: SC310EP06TPC / TYP OF ALL 6" TOP CONNECTIONS
PREFABRICATED EZ END CAP	B	12" BOTTOM PREFABRICATED EZ END CAP, PART#: SC310E0EZZ / TYP OF ALL 12" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS
PRE-CORED END CAP	C	8" TOP PRE-CORED END CAP, PART#: SC310EP08TPC / TYP OF ALL 8" TOP CONNECTIONS
FLAMP	D	INSTALL FLAMP ON 12" ACCESS PIPE / PART#: SC31012RAMP
MANIFOLD	E	8" x 8" TOP MANIFOLD, MOLDED FITTINGS
PIPE CONNECTION	F	6" TOP CONNECTION
CONCRETE STRUCTURE	G	CCS (DESIGN BY ENGINEER / PROVIDED BY OTHERS)
CONCRETE STRUCTURE	H	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)



PROPOSED LAYOUT	
80	STORMTECH SC-310 CHAMBERS
20	STORMTECH SC-310 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	STONE VOID
2590	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)
2016	SYSTEM AREA (SF)
192.5	SYSTEM PERIMETER (ft)

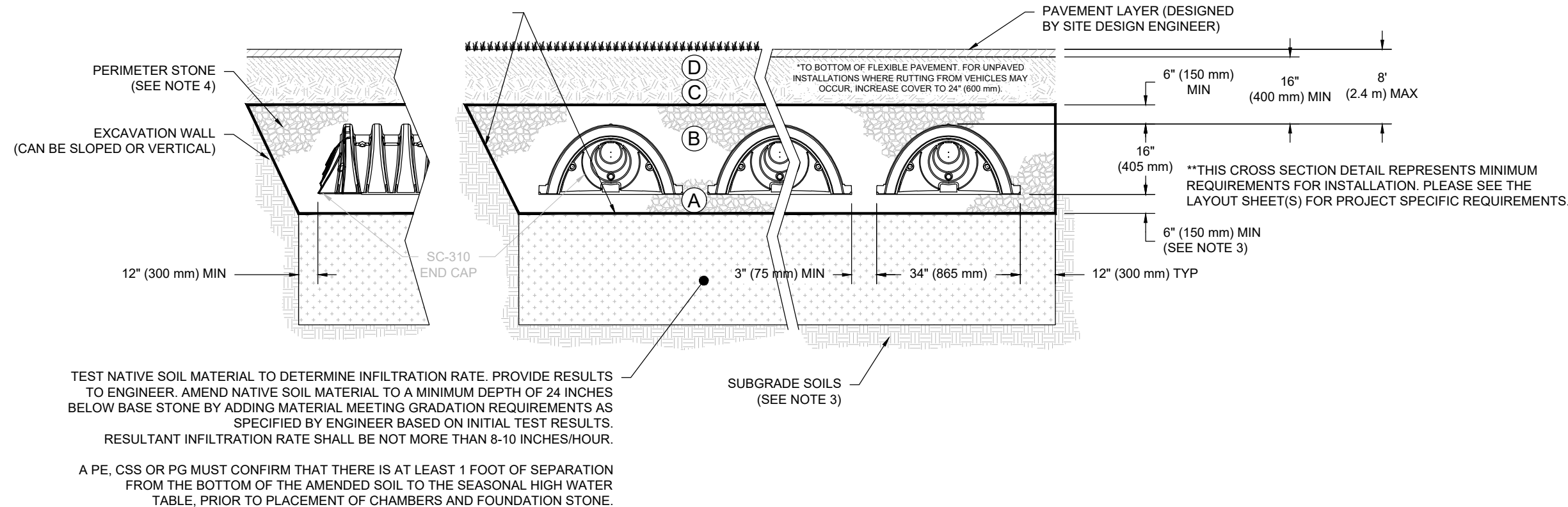


SC-310 ISOLATOR ROW PLUS DETAIL
NTS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (460 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 85% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

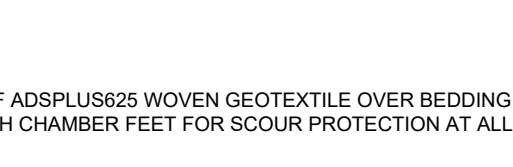
- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL INFILTRAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
 - WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

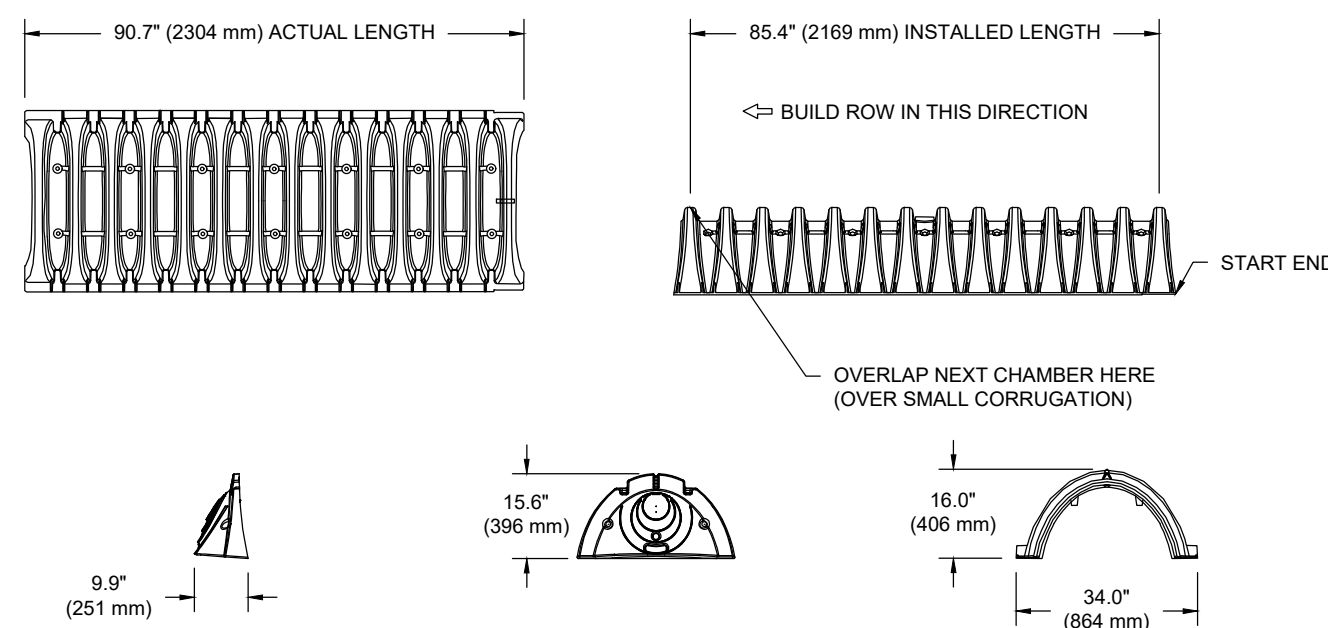
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 325 LBS/FT²%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

SC-310 CROSS SECTION DETAIL
NTS



STORMWATER GALLERY LAYOUT

SCALE: 1" = 10'



NOMINAL CHAMBER SPECIFICATIONS	
SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4" (0.42 m³)
CHAMBER STORAGE	14.7 CUBIC FEET (0.83 m³)
MINIMUM INSTALLED STORAGE*	29.3 CUBIC FEET (0.83 m³)
WEIGHT	35.0 lbs. (16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND 3" (75 mm) BETWEEN CHAMBERS

PART #	STUB	B	C
SC310EP06TPC	6" (150 mm)	5.8" (147 mm)	0.5" (13 mm)
SC310EP08BPC	8" (200 mm)	3.5" (89 mm)	0.6" (15 mm)
SC310EP08TPC	8" (200 mm)	---	0.6" (15 mm)
SC310EP08BPC	8" (200 mm)	---	0.6" (15 mm)
SC310EP08TPC	8" (200 mm)	---	0.6" (15 mm)
SC310EP08BPC	8" (200 mm)	---	0.6" (15 mm)
SC310EP08TPC	8" (200 mm)	---	0.6" (15 mm)
SC310EP08BPC	8" (200 mm)	---	0.6" (15 mm)
SC310E0EZZ	12" (300 mm)	---	0.9" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310E0EZZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP.

* FOR THE SC310E0EZZ THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL; PRE-CORED END CAPS END WITH "PC"

SC-310 TECHNICAL SPECIFICATION
NTS

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FOR
CONSTRUCTION

CATCH
NEIGHBORHOOD
HOUSING
43 FISHERVILLE ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP 303/Z LOT 68

APPLICANT:
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CONCORD, NEW HAMPSHIRE

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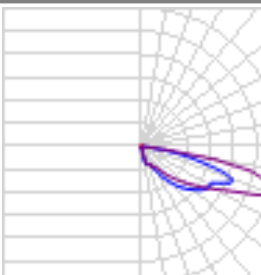
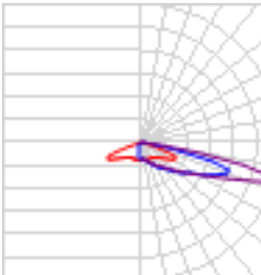
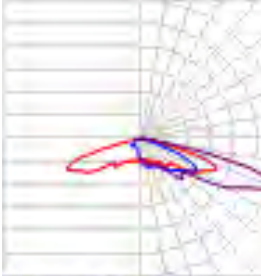
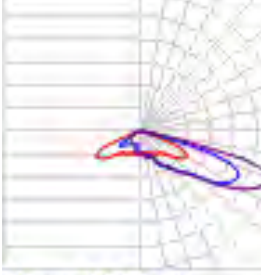
CONSTRUCTION
DETAILS

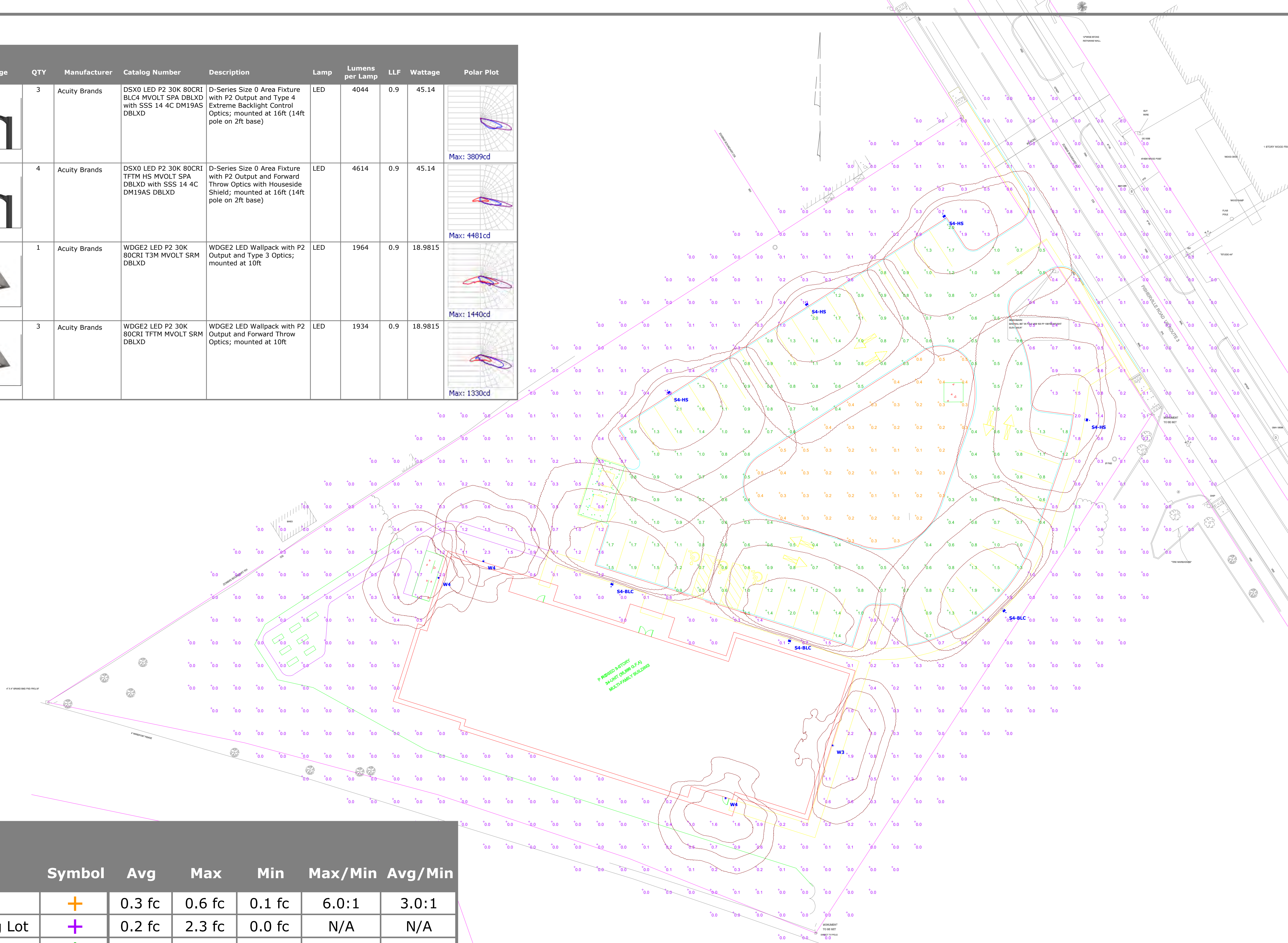
SHEET

C-6.5



StormTech®
Chamber System

Schedule											
Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Lumens per Lamp	LLF	Wattage	Polar Plot
	S4-BLC		3	Acuity Brands	DSX0 LED P2 30K 80CRI BLC4 MVOLT SPA DBLXD with SSS 14 4C DM19AS DBLXD	D-Series Size 0 Area Fixture with P2 Output and Type 4 Extreme Backlight Control Optics; mounted at 16ft (14ft pole on 2ft base)	LED	4044	0.9	45.14	 Max: 3809cd
	S4-HS		4	Acuity Brands	DSX0 LED P2 30K 80CRI TFTM HS MVOLT SPA DBLXD with SSS 14 4C DM19AS DBLXD	D-Series Size 0 Area Fixture with P2 Output and Forward Throw Optics with Houseside Shield; mounted at 16ft (14ft pole on 2ft base)	LED	4614	0.9	45.14	 Max: 4481cd
	W3		1	Acuity Brands	WDGE2 LED P2 30K 80CRI T3M MVOLT SRM DBLXD	WDGE2 LED Wallpack with P2 Output and Type 3 Optics; mounted at 10ft	LED	1964	0.9	18.9815	 Max: 1440cd
	W4		3	Acuity Brands	WDGE2 LED P2 30K 80CRI TFTM MVOLT SRM DBLXD	WDGE2 LED Wallpack with P2 Output and Forward Throw Optics; mounted at 10ft	LED	1934	0.9	18.9815	 Max: 1330cd



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Landscape Island	+	0.3 fc	0.6 fc	0.1 fc	6.0:1	3.0:1
Outside of Parking Lot	+	0.2 fc	2.3 fc	0.0 fc	N/A	N/A
Parking Lot	+	0.9 fc	2.1 fc	0.3 fc	7.0:1	3.0:1



CATCH NEIGHBORHOOD HOUSING
Fisherville Rd Concord, NH
Site Lighting Layout

Designer
Heidi G. Connors
Visible Light, Inc.
24 Stickney Terrace
Suite 6
Hampton, NH 03842
Date
06/10/2026
Scale
1"=20'
Drawing No.
Summary

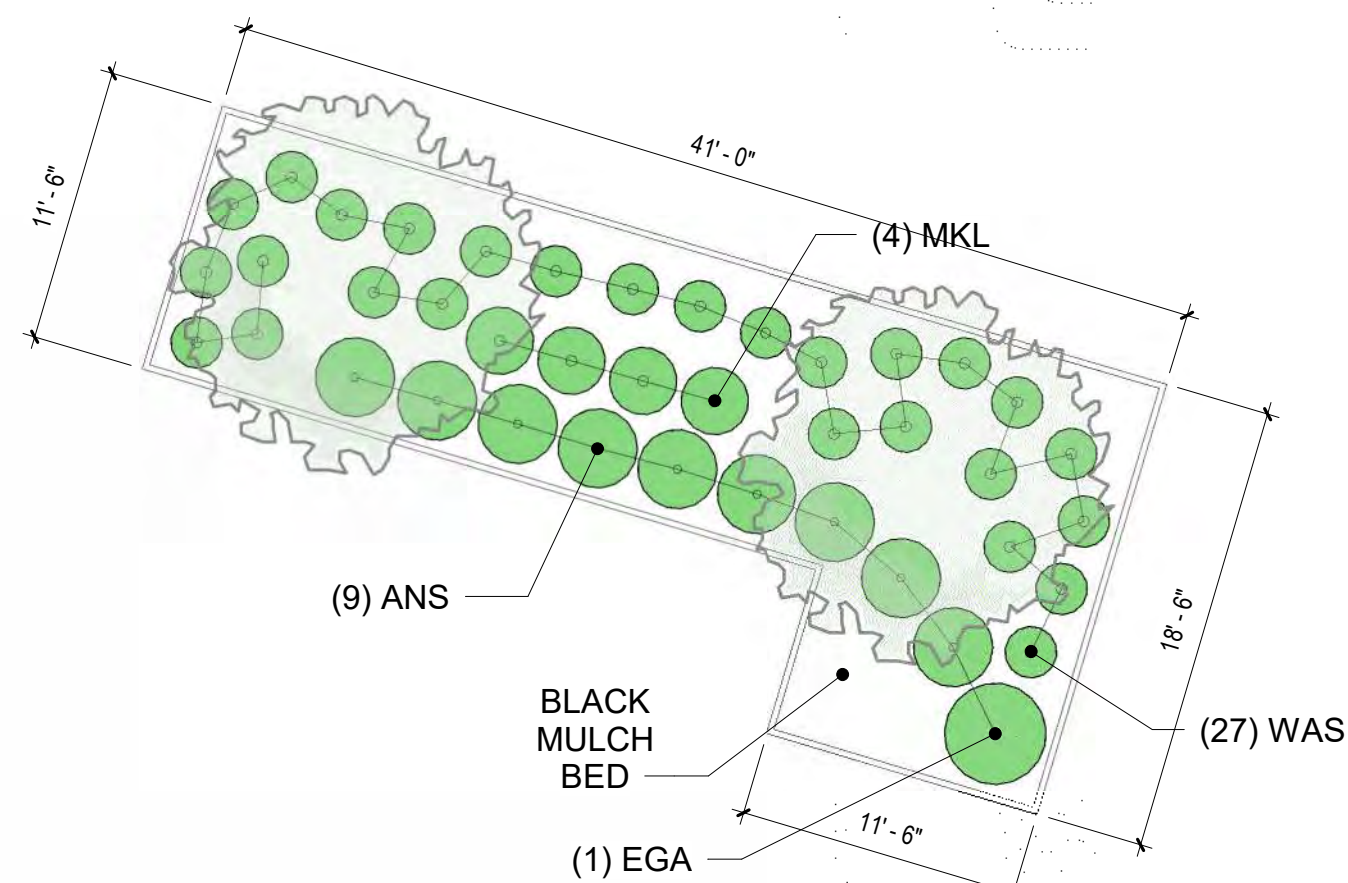
I, Jonathan Halle, hereby Certify that I am the designer of this Landscape Plan and that I am a Professional Landscape Architect Licensed by the State of New Hampshire.

Jonathan Halle

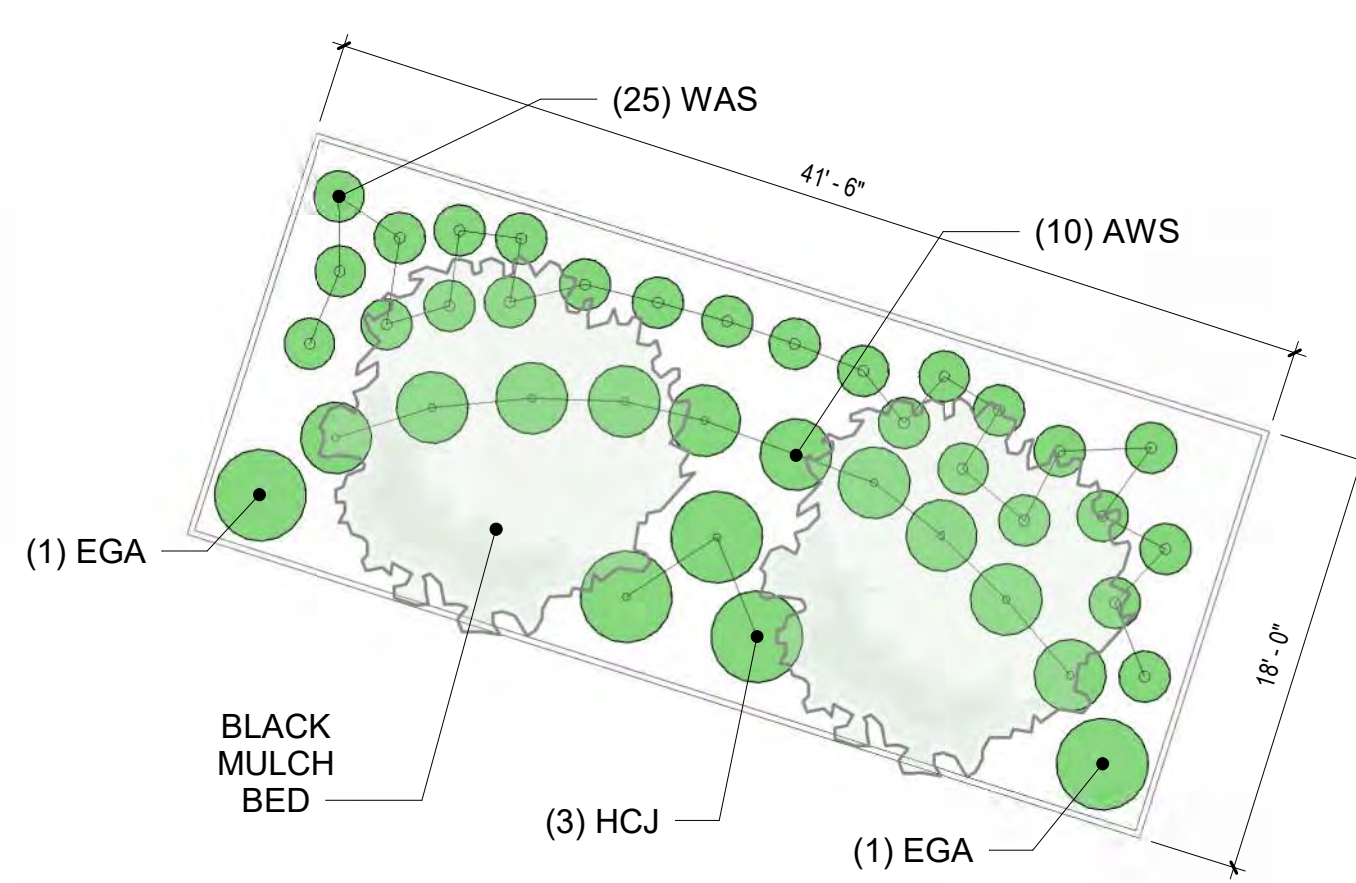
Jonathan Halle, PLA, AIA



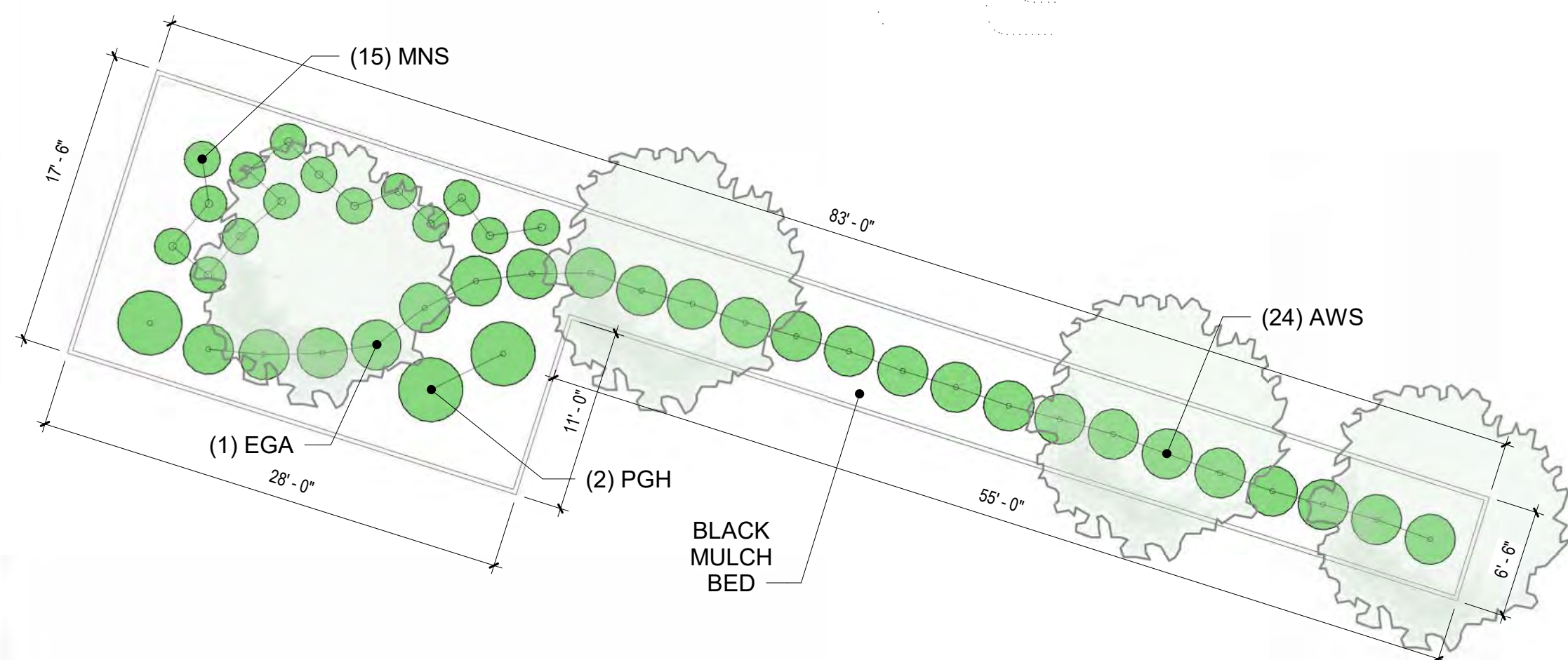
1 LANDSCAPE PLAN
1" = 30'-0"



2 PLANTING BED - A - ENLARGED PLAN
1/8" = 1'-0"



3 PLANTING BED - B - ENLARGED PLAN
1/8" = 1'-0"



4 PLANTING BED - C - ENLARGED PLAN
1/8" = 1'-0"

OWNER
CATCH Neighborhood Housing
105 Loudon Rd Unit 1
Concord, NH 03301
P. () F. ()

CONSTRUCTION MANAGER
NA

CONSULTANTS:
CIVIL
NOBIS GROUP
18 CHENELL DRIVE
CONCORD, NH 03301
(603) 224-4182

LANDSCAPE
WARRENSTREET ARCHITECTS
4 CRESCENT STREET, UNIT 2
CONCORD, NH 03303
(603) 225-0640

STRUCTURAL

MECHANICAL/PLUMBING

ELECTRICAL

OTHER

Warrenstreet
Planning Landscapes Architecture Interiors
WARRENSTREET ARCHITECTS, INC.
4 CRESCENT STREET, UNIT 2
CONCORD, NEW HAMPSHIRE 03303
P. (603) 225-0640
WWW.WARRENSTREET.COOP

SEAL:



PROJECT TITLE / ADDRESS:
CATCH FISHERVILLE ROAD HOUSING
43 FISHERVILLE ROAD
CONCORD, NH 03303

PLAN KEY:

SCALE: AS NOTED DWN BY: HHA
PROJECT #: 4041 CHK BY: CB
PRINT DATE: 6/16/2026 10:14:34 PM

ISSUE DATE: 06/12/2026
NOT FOR CONSTRUCTION SCHEMATIC DESIGN

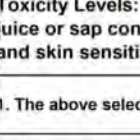
REV.	DATE	COMMENTS

LANDSCAPE SITE PLAN

LA101

SHEET NUMBER: 1 OF 7 LANDSCAPE
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three inches = one foot
one and one half inches = one foot
one inch = one foot
one inch = one foot
three quarter inch = one foot
three quarter inch = one foot
one quarter inch = one foot
one eighth inch = one foot
C:\Users\chadur\Documents\4041 FISHERVILLE LANDSCAPE
MODEL.ctb@warrenstreet.coop.rvt
TEMPLATE DATE: 11/2/2019

Fisherville Housing Landscape Planting Schedule (6/8/2026)																
Photo	Type	Sym	Qty	Common Name	Botanical Name	Hardiness Zone	Habit of Growth		Sun Exposure	Drought Tolerant	Native	Toxicity	Installed Size	Type	Use	Description & Notes (Height, Exposure, Bloom, Color)
							Height	Spread								
	Deciduous Large Tree	HCB	5	Heritage Clump River Birch	Betula nigra "Cully"	4-9	25-30'	20-25'	Full Sun	YES	YES	3	4"-4 1/2" cal 10-12ft	B&B	Accent Tree	Heritage Birch is a small to medium-sized tree that grows no more than 50 feet tall. This tree arrives with three stems planted close together and it grows into a picturesque specimen that will grace your garden with beauty and charm. It adds 2 feet a year, or even 3 feet a year in warmer areas, easily making into a beautiful tree in any garden. It has attractive bark in brown and tan, that is constantly peeling and curling away to reveal cream and white bark beneath. The delicate oval leaves hang from slightly-pendulous branches, creating only light shade. In fall the leaves turn glowing shades of pale gold. Especially useful for wet, clay soils, growing even in flooded areas.
	Deciduous Large Tree	HLT	4	Yellow Imperial Thornless Honey Locust	Gleditsia triacanthos var. inermis "Shademaster"	3-9	30-70'	30-70'	Full Sun	YES	YES	4 to horses only	3"-3 1/2" cal 10-12ft	B&B	Street Tree	The Shademaster Honeylocust is everything you could want in a shade tree and more. Providing perfect dappled shade with a classic rounded shape, the Shademaster Honeylocust Tree is highly adaptable, tolerant, hardy, and pest and disease-free. The Shademaster Honeylocust's leaves are small and delicate but through the leaves may be small, they still dazzle during fall. Turning from bright spring green to golden yellow, the transition of colors on these leaves are reminiscent of the nostalgic sights and smells of autumn.
	Deciduous Large Tree	PAT	6	Kwanzan Cherry	Prunus a. "Kwanzan"	3-9	40'-60'	35'-45'	Full-Partial Sun	NO	NO	3 to pets only	3"-3 1/2" cal 10-12ft	B&B	Accent Tree	Classed in a profusion of cascading pink flowers, Kwanzan Cherry Tree is known as the most prolific bloomer in the flowering cherry family. Plus, the Kwanzan thrives in tough conditions while still delivering unmatched color and eye-catching blooms, making it perfect for effortless elegance in almost any landscape area.
	Deciduous Large Tree	PEH	2	Pyramidal European Horn	Betula Carpinus Fastigiata	4-8	30'-45'	8'-12'	Full Sun	YES	NO	0	3"-3 1/2" cal 10-12ft	B&B	Street Tree	This is a beautiful tree with a columnar habit when young but that slowly changes and spreads to an oval form as it matures. With age, it will reach a height of forty feet tall and have a spread of thirty feet. This is an excellent choice for a shade tree.
	Deciduous Large Tree	RDO	3	Northern Red Oak	Quercus Rubra	3-8	60-75'	50-75'	Full Sun	YES	NO	3	3"-3 1/2" cal 10-12ft	B&B	Street Tree	The northern red oak has been called "one of the hardiest, cleanest, and staliest trees in North America" by naturalist Joseph S. Black, and it is widely considered a national treasure. It is valued for its versatility and hardiness in urban settings. This medium to large tree is also known for its brilliant fall color, great value to wildlife, and status as the state tree of New Jersey.
	Deciduous Large Tree	RMT	6	American Red Maple	Acer Rabrum "Brandywine"	4-9	40'-60'	30'-50'	Full Sun	YES	YES	3	3"-3 1/2" cal 10-12ft	B&B	Street Tree	Vibrant color and rich reds are synonymous with the American Red Maple Tree. The Red Maple truly earns its name, with its red flowers in early spring, red edges of new growth, and spectacular red leaves in fall. Its dazzling fall show is further diversified with a few orange or gold shades under certain weather conditions. Even better, the American Red Maple adapts to any environment. The American Red Maple Tree is one of the most popular trees in the eastern U.S. because it adapts so well to many different environments. It is quite drought tolerant, but will grow in wet boggy areas, especially in the Southern portion of its range.
	Deciduous Large Tree	TPT	2	Tulip Poplar Tree	Liriodendron tulipifera	4-9	70'	30-40'	Full Sun	NO	YES	2 to pets only	3"-3 1/2" cal 10-12ft	B&B	Street Tree	Imagine leaving for work one morning during spring, before you leave, you notice 3 to 4 small blooms on your tree. When you come home that evening, that same tree is covered in a blanket of richly-hued florals. With the Tulip Poplar, a dazzling production and fast growth are not only possible but expected. You'll have the brightest tree in the neighborhood. And though it takes the blooms some time to develop (10 to 15 years), they're unmatched. Even better! During the summer, you'll have a fast-growing, well-formed green shade tree. When fall arrives, the Tulip's leaves turn to bright yellow for a dazzling show. So, our Tulip Poplar merges the best of both worlds.
	Deciduous Accent Flowering Small Tree	CCD	2	Cherokee Chief Dogwood Tree	Cornus florida "Cherokee Chief"	5-9	15-30'	15-30'	Full-Partial Sun	YES	YES	0	6'-7' hgt.	B&B	Accent Tree	The Cherokee Chief Dogwood is cold hardy to growing zone 5, where other dogwood varieties can't handle the cold. By being one of the first trees to bloom in spring, Cherokee Chief Dogwoods fit the landscape with they red blossoms while other trees are still dormant. Once their first, green leaves in they act as a backdrop for the bright flowers to pop against. The central show doesn't stay there because the long, oval shaped leaves fall in to create a thick and attractive canopy that provides shade in the summer. When the leaves first emerge they have a burgundy to bronze tint that fades to green as they mature. Then in the fall the green leaves turn a dark shade of red.
	Deciduous Flowering Shrubs	AWS	39	Anthony Waterer Spirea	pirea x bumalda 'anthony waterer'	4-9	3-5'	3-5'	Full-Partial Sun	YES	NO	0	3 Gal	CTN	NA	Spirea japonica is a dense, upright, rounded, deciduous shrub that typically grows to 6 feet tall with a slightly larger spread. The cultivar, 'Anthony Waterer', is a more compact version that grows to 2 to 3 feet tall and 3 to 4 feet wide. Like japonica, 'Anthony Waterer' leaves grow to 2 inches long and are oval and sharply toothed. New foliage emerges with reddish purple tints in spring, matures to blue-green by summer and finally turns reddish in fall. However, unlike japonica's pink flowers, 'Anthony Waterer' has camellia red flowers in flattened corymbs (6 to 8 inches wide) in a showy bloom from late spring to mid-summer.
	Deciduous Flowering Shrubs	MKL	4	Miss Kim Korean Lilac	Syringa pubescens patula 'miss kim'	4-8	4-6'	6-8'	Full-Partial Sun	YES	NO	0	2'-2 1/2' ht.	B&B	NA	Near compact growth, fragrant, blooms later than most lilacs, attractive foliage, deep burgundy fall color.
	Deciduous Flowering Shrubs	MNS	30	May Night' Salvia	Salvia nemerosa May Night	4-9	18"	18"	Full Sun	YES	NO	0	3 Gal.	CTN	NA	May Night Salvia, also known as Meadow sage, is a classic perennial for your garden's borders. This beautiful plant forms a neat mound of dark green leaves. The violet-purple spikes on this Salvia will bloom all summer! Spent flowers have been deadheaded. Besides being a beauty to behold in your landscape, a Meadow sage is also easy to grow thanks to its drought tolerance.
	Deciduous Flowering Shrubs	PGH	2	Peegee Hydrangea Tree	Hydrangea paniculata 'Grandiflora'	3-8	10-20'	10-20'	Full Sun-Partial Shade	NO	YES	1	6'-7' hgt.	B&B	Accent Tree	This is the most common P. paniculata form. It can be grown either as a large shrub or small tree, and it is known for its large panicles of white flowers. In fact, with some good pruning, this shrub can produce flower clusters measuring up to 12' 18" in length!
	Deciduous Flowering Shrubs	RSH	6	Red Sensation Hydrangea	Hydrangea macrophylla "red sensation"	5-9	2-3'	3-5'	Partial shade-full shade	NO	NO	4	5 gal	CTN	NA	The Red Sensation Hydrangea is a top choice shrub, which grows vigorously in partial or full shade. It flowers from mid-summer through fall, just when other plants are finishing their bloom. This specially-selected variety will bloom even on new shoots from the base, as well as on older wood, so it is a great choice for gardeners in colder areas. Plant it under trees to fill awkward spaces with dense foliage and bright flowers. The exact flower color will depend on your soil type. In acidic soil (below pH 5.5) they will be blue-violet, but in other soils they will be red-violet. In either case, the unique rich coloring is a terrific contrast to the lighter, more typical blue or pink flowers.
	Deciduous Flowering Shrubs	WAS	24	White Astible	Astible Chinensis 'Visions in White'	4-8	12"	24"	Full-Partial Sun	YES	YES	0	3 Gal	CTN	NA	Tall, leafy, white blooms above compact, deep bronze-green foliage. Valued for their airy quality, the flowers are excellent for cutting. Left in place, the dried seed heads add interest to the winter garden. A true gem for dappled shade gardens, this robust selection tolerates heat and dry periods. An herbaceous perennial.
	Evergreen Accent Tree	BBS	4	Baby Blue Spruce	Picea pungens 'Baby Blue'	2-8	15-30'	15'	Full-Partial Sun	YES	YES	0	10-12' hgt.	B&B	NA	Slower growing than the native Colorado spruce, this semi-dwarf selection is useful for smaller landscapes and confined spaces. Dense, eye-catching silvery blue-green foliage holds its color well. Growing only a few inches per year, it develops a broad, pyramidal form. Evergreen.
	Evergreen Accent Tree	BSP	4	Black Spruce	Picea Mariana	2-6	25-40'	15-20'	Full-Partial Sun	YES	YES	1	6'-7' hgt.	B&B	NA	Black Spruce reportedly derives its non-scientific name from the dark hue of its foliage in certain habitats. When mowed on mountain slopes in the northern portions of its range, it appears to be black rather than green. However, in the Adirondacks, Black Spruce trees grow more commonly in bogs and do not appear noticeably dark.
	Evergreen Accent Tree	EGA	4	Emerald Green Arborvitae	Thuja occidentalis "Emerald Green"	3-8	8-12'	3-4'	Full-Partial Sun	YES	NO	2 to pets only	6'-7' hgt.	B&B	NA	A narrow, pyramidal evergreen with dense, emerald green foliage that holds its color throughout winter. Thrives in the heat and humidity of the south, and tolerates dry spells when established. One of the most popular and effective shrubs for screening or tall hedge use. An ideal specimen for topiary. The rich green of its foliage and handsome, narrow form make this confer an excellent choice to plant in a row as a formal screen. Leave it unpruned for the full effect of its stately form.
	Evergreen Accent Tree	GGA	6	Thuja Green Giant Western Cedar Arborvitae	Thuja standishii x plicata	5-9	20-40'	6-12'	Full-Partial Sun	YES	YES	0	6'-7' hgt.	B&B	NA	This 'Green Giant' is a large, rounded, evergreen, conifer tree that is a hybrid cultivar of T. plicata and T. standishii (a cross between the Western Redcedar and Japanese arborvitae, respectively). Later availability to nurseries increased interest for use in landscapes. Its low-branching, dense columnar-pyramidal habit reaches a mature height of 40-60 feet and with 12-20 feet with a lifespan of 40-60 years. Dark green sprigs of small, glossy, scale-like needles retain their deep green color through the winter. This tree does best in a moist, full-sun location with light afternoon shade. It tolerates a wide range of soils and, in optimal conditions, can grow 3-4 feet per year.
	Evergreen Accent Tree	JMA	13	Juniper Moonglow	Juniperus scopulorum "Moonglow"	3-7	10'-15'	4'-6'	Full-Partial Sun	YES	YES	3	6'-7' hgt.	B&B	NA	Juniperus scopulorum is a remarkable pyramidal shaped tree better known as the Rocky Mountain Juniper. This slow-growing evergreen maintains a slender width while growing to a moderate height. This useful combination makes it an ideal selection for locations in your landscape project that require a visual height element but may not have the width to accommodate a wider tree or shrub. The Moonglow variety of juniper is also an ideal choice for horticulturists interested in creating borsals. The upward forming branches produce needle shaped foliage in a deep blue-green color with a delicate silvery linge, and these maintain their color throughout the entire year.
	Seed Lawns	SFL	TBD	Seeded Ornamental Fine Lawn Mix	(Kentucky Bluegrass and Creeping Red Fescue Blend) 1lb/1000sf @ \$19/lb	3-9	8"	NA	Full Sun-Partial Shade	YES	YES	0	Seed Mix	Bag	NA	Luffs Seed Company or approved equal. Species 70% tall fescue - Festuca arundinacea. 30% creeping red fescue - Festuca rubra. Fine Grade, fertile seed and high moisture. Seed Rate: 5 lbs/1,000 of seed 10% if hydroseeded. Seed Dates: April 15 - June 30 and August 15 - October 15 unless approved otherwise.
General Planting Notes																
USDA Plant Hardiness Zones - NH North of Laconia Zone 4 - Southern NH Zone 5 - Western Massachusetts Zone 5 - Eastern Massachusetts Zone 6.																
Toxicity Levels: To differentiate the differences in toxicity, experts established a numeric 4-scale system: They assigned a score of 1 to a plant with major toxicity — the potential to cause serious illness or death if ingested; 2 for plants with minor toxicity where ingestion may cause vomiting or diarrhea when ingested; 3 for plants where the juice or sap contain needle-shaped oxalate crystals that can irritate skin, mouth, tongue and throat that can result in throat swelling, breathing difficulties, burning pain and stomach upset; and 4 for plants where contact can cause skin rash, irritation. Some plants have a score of 1 or 2 and 4, meaning that they could pose both for ingestion and skin sensitization hazard.																
1. The above selection of plants is provided for design intent. Trees, Shrubs, Ground Cover, Flowers, Bedding and Seeding - See Specification and General Notes and Details on the Accompanying Drawings. It is understood that the final installation and implementation of this plan is subject to plant availability, substitutions, time of year, phasing and cost.																
2. It is understood, that the majority of nursery plants are to some degree toxic to humans and pets, whether the root, stock, bark, leaf, fruit or juice. The owner and installer should become acquainted to the potential toxicity of the ultimate selection of all nursery plants. Warrenstreet has provided common toxicity labels of plant materials selected and in noway warranties against the potential affects of any plants selected and installed.																
3. All planting beds shall be mulched with a minimum of 2" of shredded cedar "BLACK" bark mulch. All sod and/or seeded lawn areas to have minimum 6" topsoil blanket. All fall bulbs shall be planted in the fall, plan accordingly, retainage will be held until plantings occur. All mass planted shrubs beds and planters around building shall have minimum 18" deep topsoil blanket to compensate for the New England very sandy granular sub-grade material.																
4. All plant material to conform to current AAN, American Standard for Nursery Stock, ANSI Z60.1-2014. All plantings shall be warranted for (1) one year from planting date. The landscape Contractor shall be responsible for two (2) lawn mowings and weeding prior to final acceptance of installation.																
Revised 10/2024																

OWNER
CATCH Neighborhood Housing
105 Loudon Rd Unit 1
Concord, NH 03301
P. () F. ()

CONSTRUCTION MANAGER
NA

CONSULTANTS:
CIVIL
NOBIS GROUP
18 CHENELL DRIVE
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(603) 224-1182
LANDSCAPE
WARRENSTREET ARCHITECTS
4 CRESCENT STREET, UNIT 2
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STRUCTURAL
.

MECHANICAL/PLUMBING
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ELECTRICAL
.

OTHER
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Planning Landscapes Architecture Interiors
WARRENSTREET ARCHITECTS, INC.
4 CRESCENT STREET, UNIT 2
CONCORD, NEW HAMPSHIRE 03303
P. (603) 225-0640
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SEAL:



PROJECT TITLE / ADDRESS:

CATCH FISHERVILLE ROAD HOUSING

PLAN KEY:

43 FISHERVILLE ROAD
CONCORD, NH 03303

SCALE: AS NOTED DWN BY: JH
PROJECT #: 4041 CHK BY: JH
PRINT DATE: 06/16/2026 10:14:34 PM

ISSUE DATE: 06/12/2026
NOT FOR CONSTRUCTION
SCHEMATIC DESIGN

REV.	DATE	COMMENTS

PLANTING SCHEDULE

LA102

SHEET NUMBER: 2 OF 7 LANDSCAPE
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three inches = one foot

one and one half inches = one foot

one inch = one foot

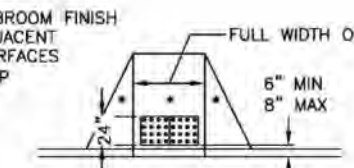
three quarter inch = one foot

one quarter inch = one foot

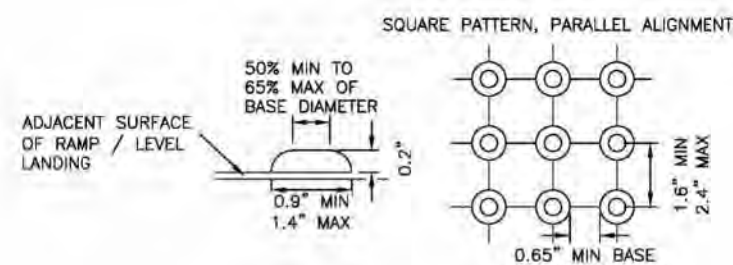
one eighth inch = one foot

C:\Users\chard\Documents\4041 FISHERVILLE LANDSCAPE
MODEL.dwg
DATE: 11/2/2019

A



DETECTABLE WARNING PLACEMENT

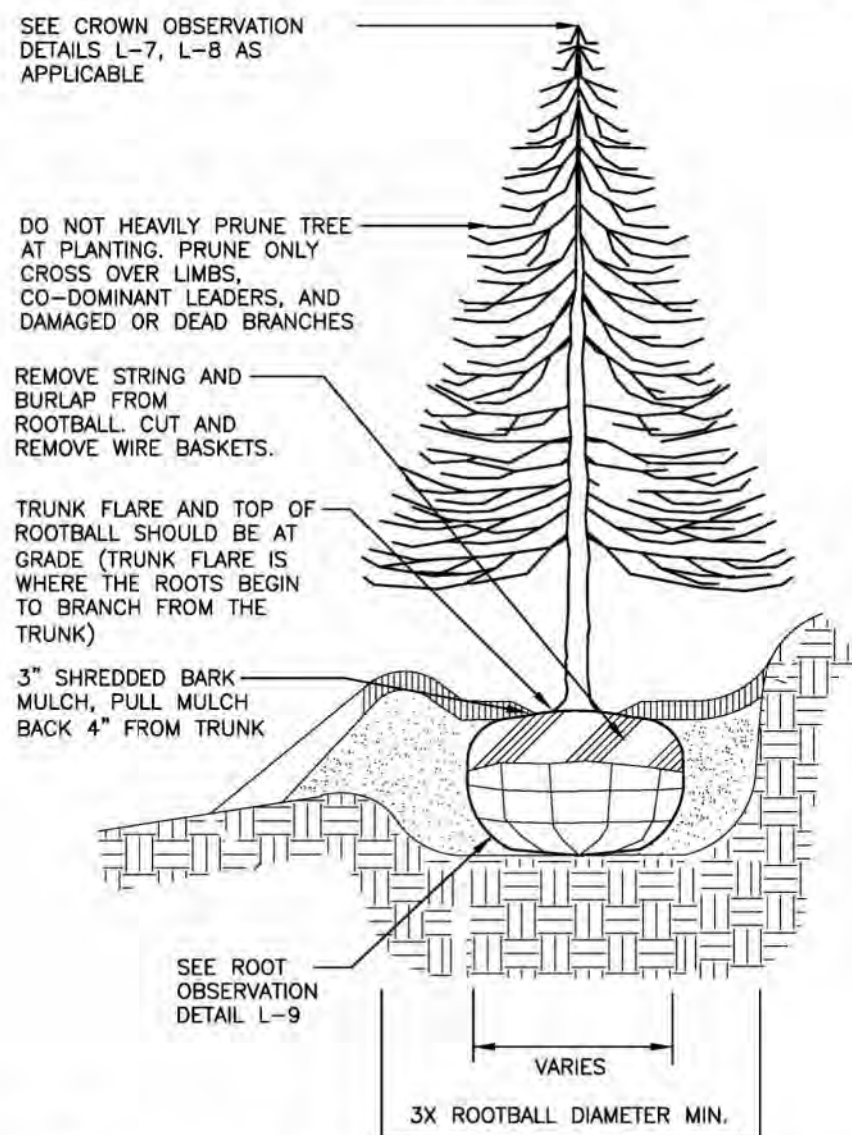


DETECTABLE WARNING DETAILS

- NOTES:
1. DETECTABLE WARNING SURFACES SHALL BE CAST IRON WITHIN THE CITY R.O.W.
 2. CONCRETE ADJACENT TO ALL DETECTABLE WARNINGS SHALL HAVE A BROOM FINISH.
 3. THE COLOR OF THE DETECTABLE WARNING SHALL PROVIDE A VISUAL CONTRAST TO THE SURROUNDING SURFACE AND SHALL BE AS SPECIFIED ON THE PLANS.
 4. WHERE A RAMP OR LEVEL LANDING MEETS A CURB RADIUS, ALIGN THE EDGE OF THE DETECTABLE WARNING AREA PARALLEL TO THE CURB TO THE MAXIMUM EXTENT FEASIBLE.

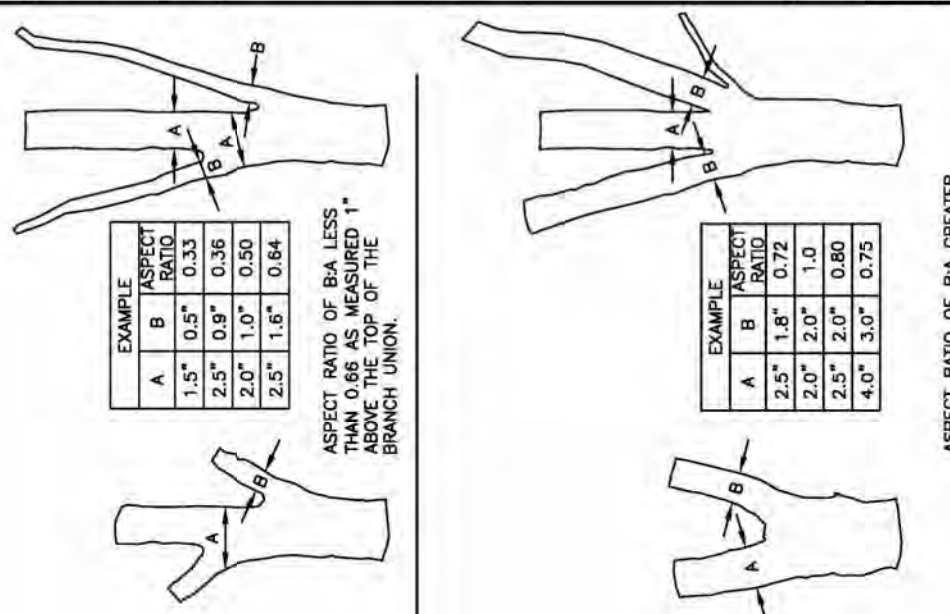
NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: SITE/STREET
1	REV STYLE	11-09		
2	SECT C-C	11-09		
3	DATE	12/08		

DETECTABLE WARNING PANEL DETAILS



NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
1	NOTES	4.15		
2	DATE	12/08		

EVERGREEN PLANTING

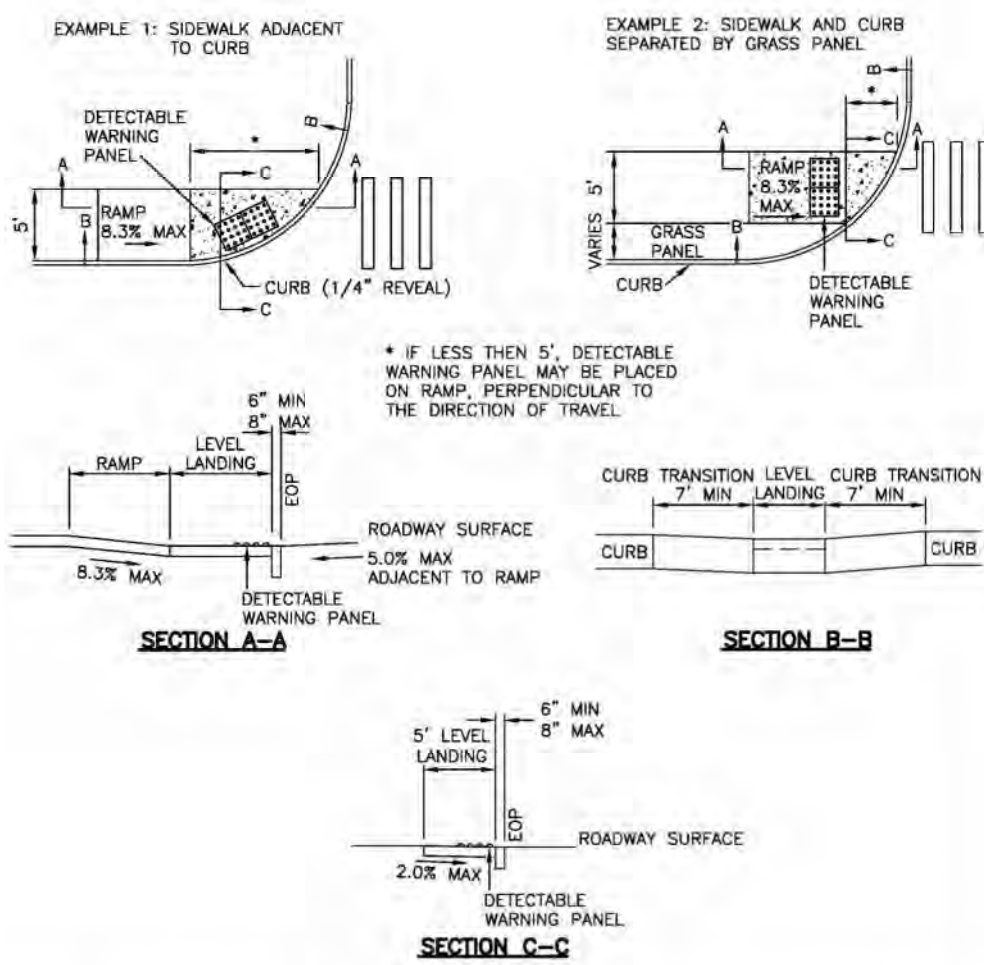


NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
1	DRAFTING	11/11		
2	POST #/FT	6/13		
3	DATE	04/15		

CROWN OBSERVATIONS LOW BRANCHED

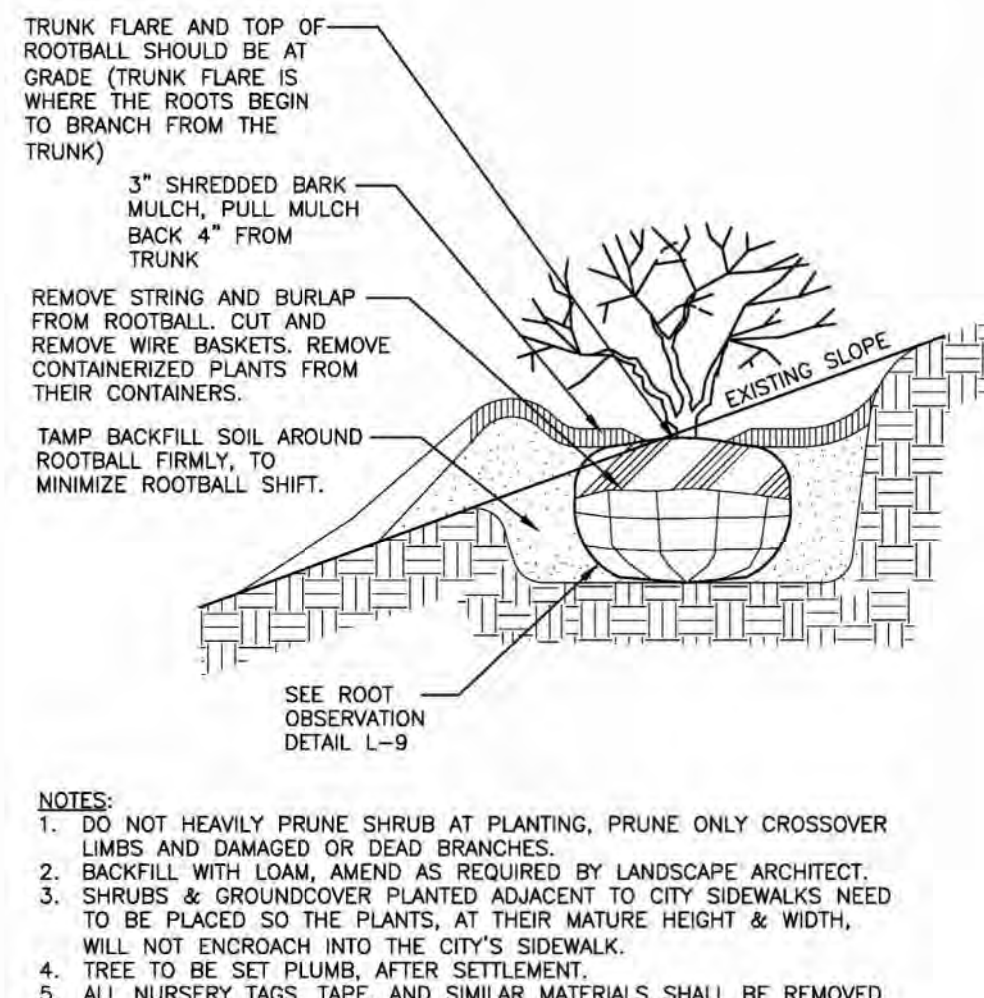
B

SINGLE WALK STRAIGHT APPROACH TO PARALLEL RAMP



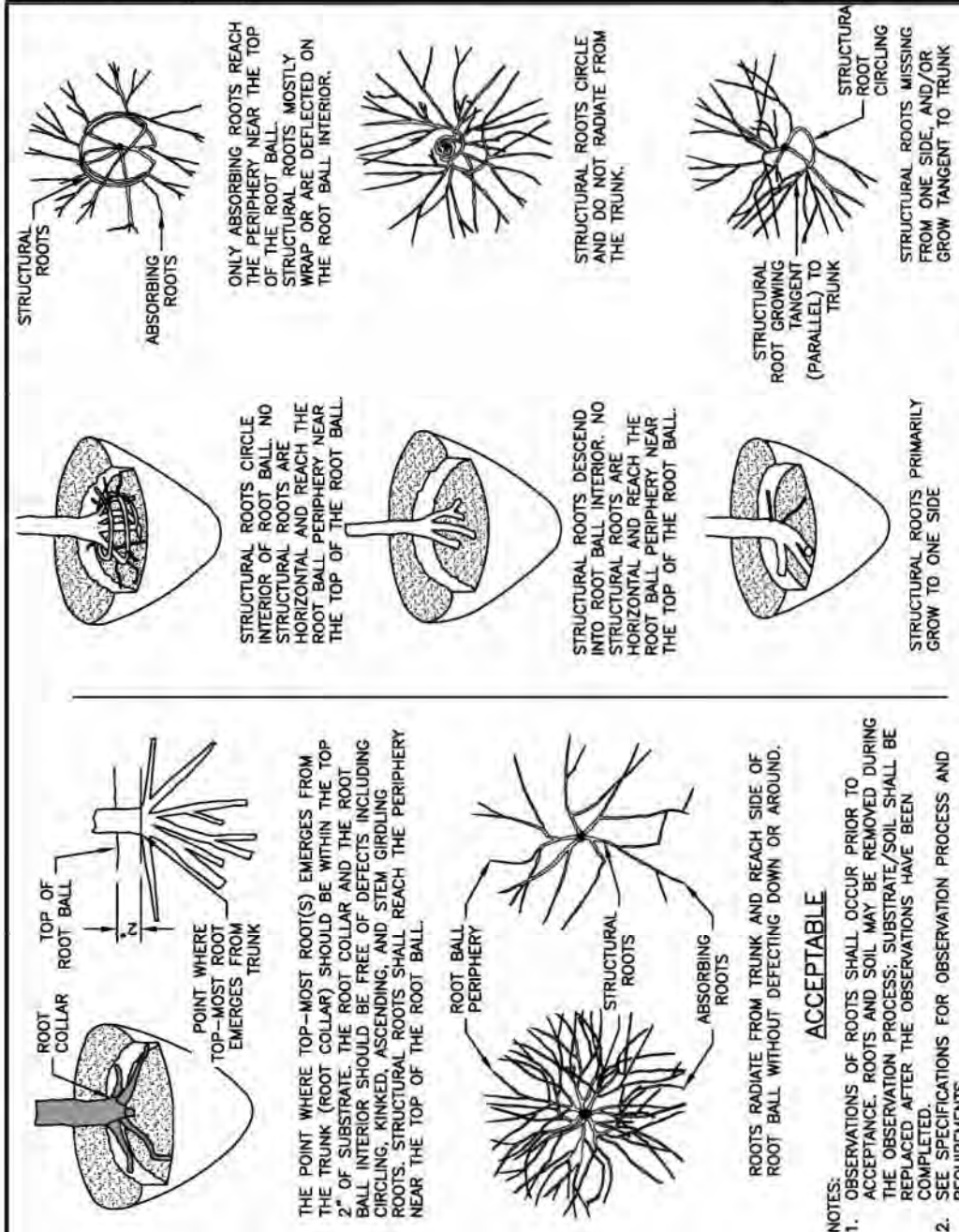
NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: SITE/STREET
1	REV STYLE	11-09		
2	SECT C-C	11-09		
3	DATE	12/08		

SIDEWALK RAMP TYPE 1



NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
1	NOTES	4.15		
2	DATE	12/08		

SHRUB PLANTING

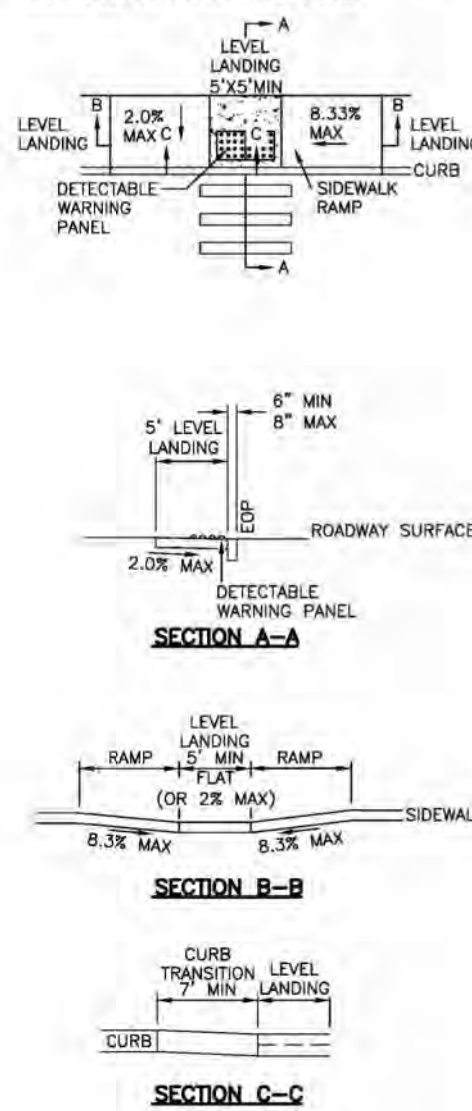


NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
1	DRAFTING	11/11		
2	POST #/FT	6/13		
3	DATE	04/15		

ROOT OBSERVATIONS BALLED AND BURLAPPED

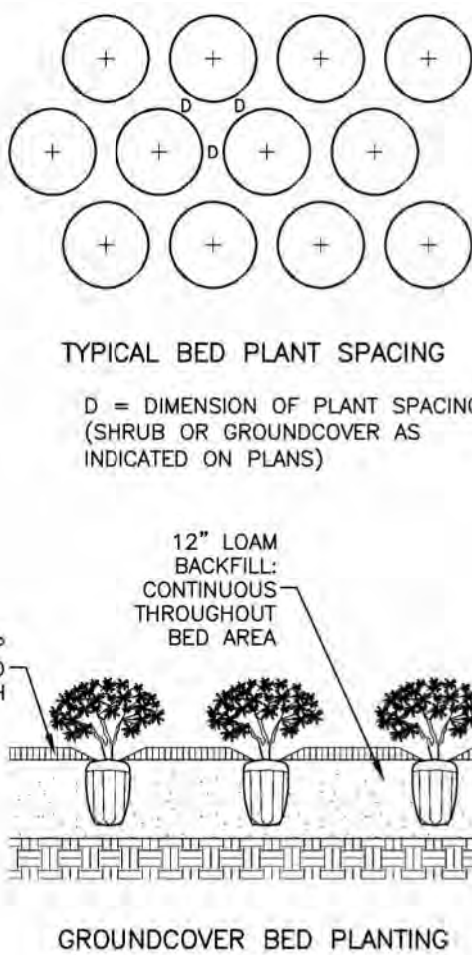
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EXAMPLE 5: SINGLE RAMP ON TANGENT; SIDEWALK ADJACENT TO CURB



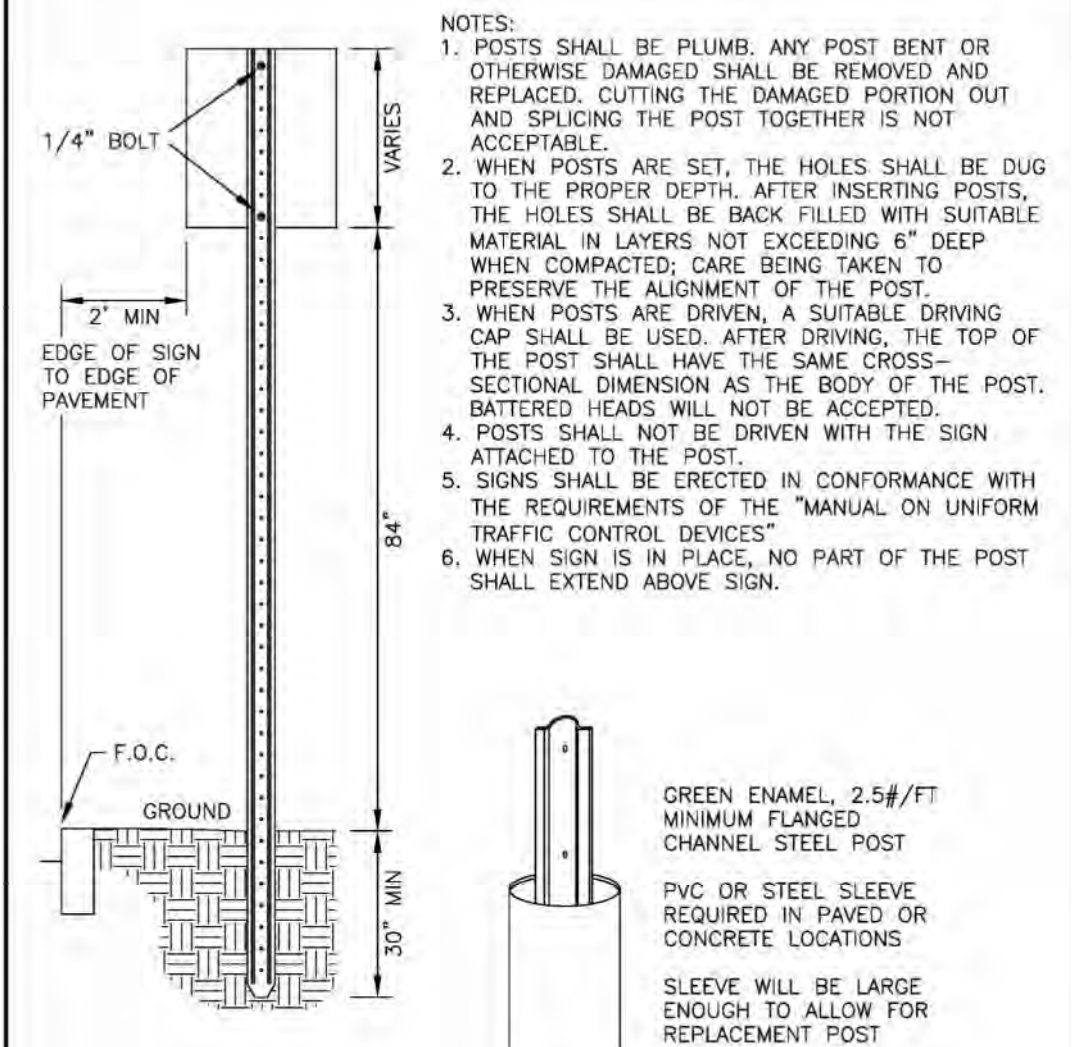
NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: SITE/STREET
1	REV STYLE	11-11		
2	SECT A-A	11-11		
3	DATE	12/08		

SIDEWALK RAMP TYPE 6, EXAMPLE 5 AND TYPE 6 SECTIONS



NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
1	NOTES	4.15		
2	DATE	12/08		

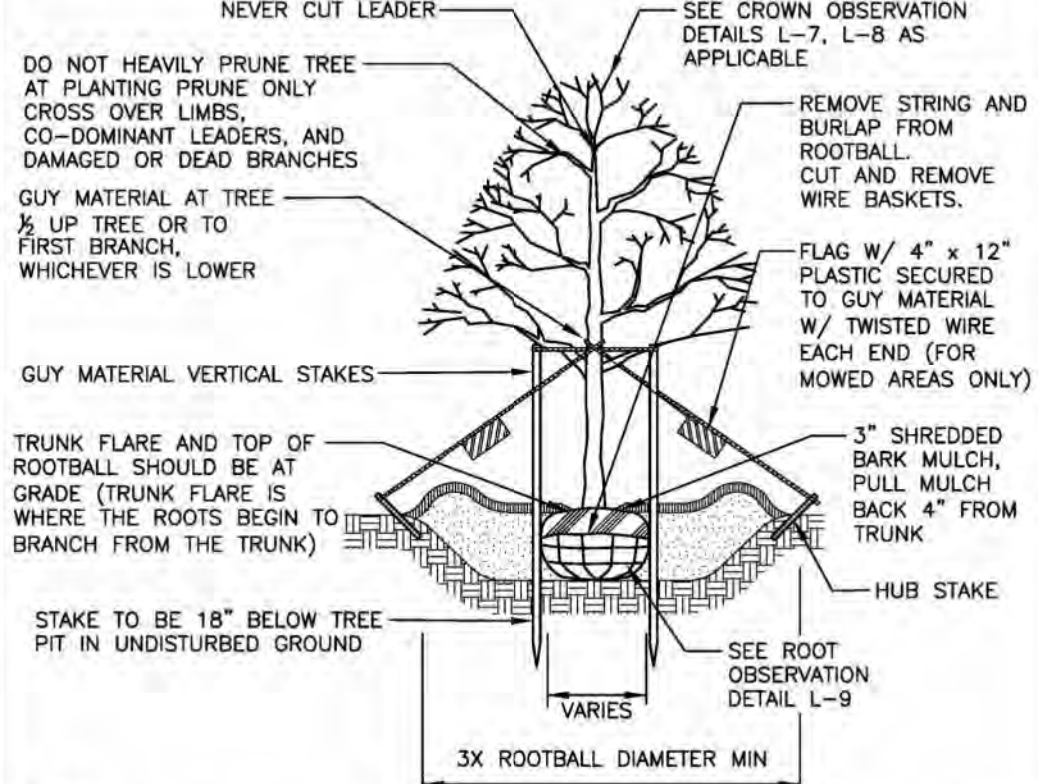
GROUNDCOVER PLANTING



NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: SITE/STREET
1	DRAFTING	11/11		
2	POST #/FT	6/13		
3	DATE	12/08		

ROAD SIGN POST and SLEEVE - URBAN

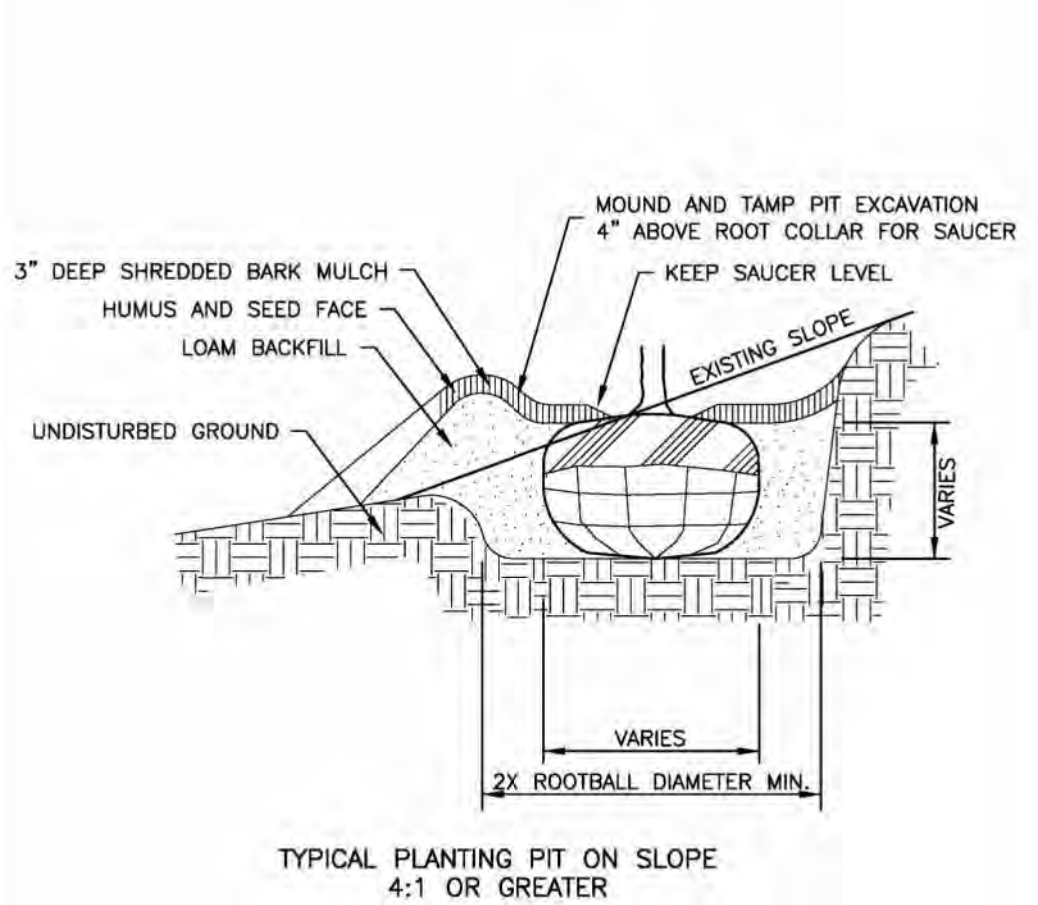
D



- 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\"/>
 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 10 FEET FROM THE EDGE OF THE CITY SIDEWALK.
 7. ALL NURSERY TAGS, TAPE, AND SIMILAR MATERIALS SHALL BE REMOVED.

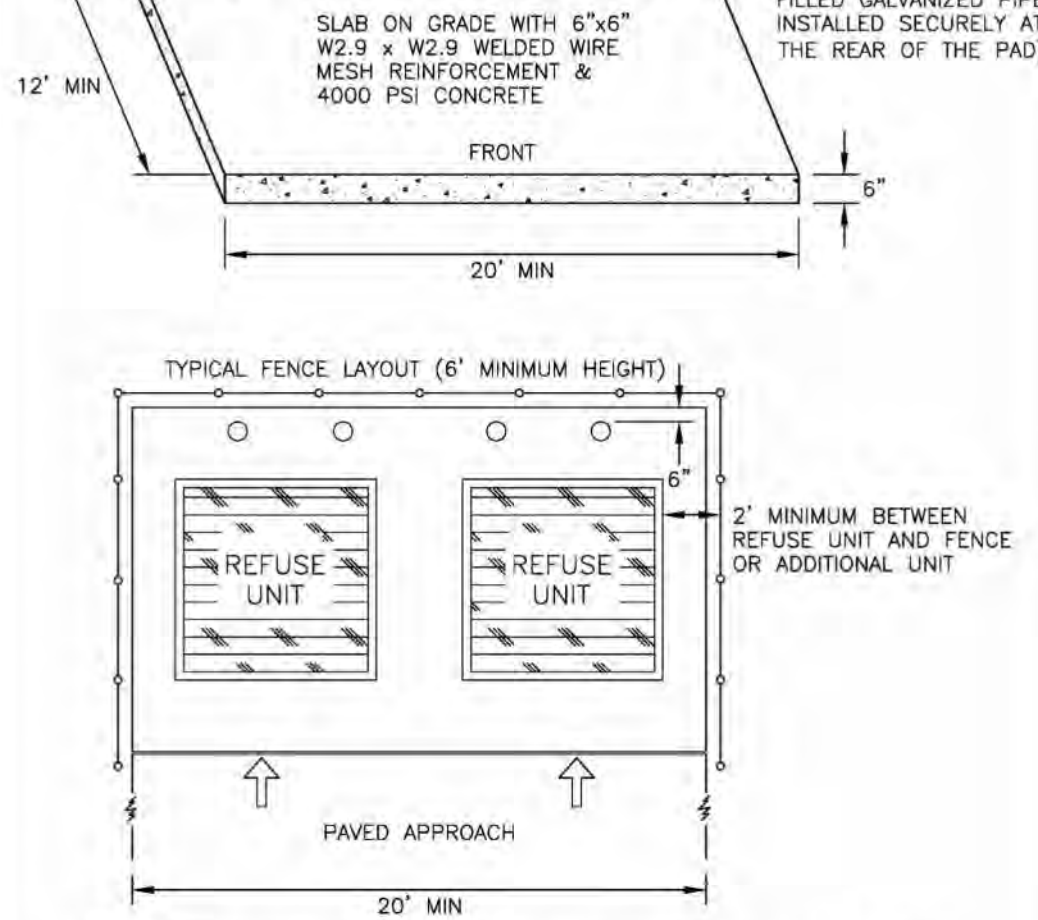
NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
1	NOTES	4.15		
2	DATE	12/08		

DECIDUOUS TREE PLANTING



NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
1	NOTES	4.15		
2	DATE	12/08		

TREE PLANTING ON SLOPE

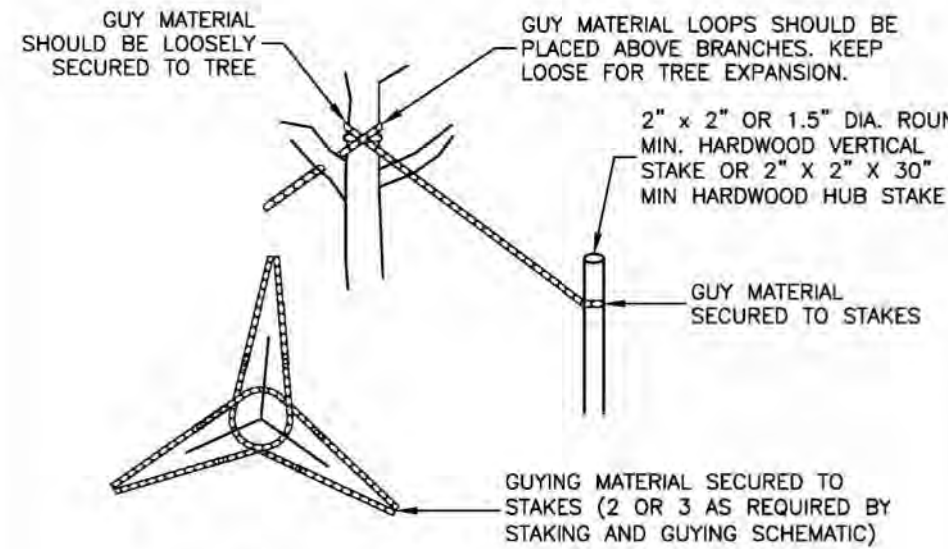


- NOTES:
1. DUMPSTER PADS AND ASSOCIATED SCREENING SHALL BE PLACED WHERE THE REFUSE BINS CAN BE UNLOADED WITH A SINGLE TURNING MOVEMENT WITH A 35' FRONT LOADING TRUCK. THE WIDTH OF THE GATE SHOULD BE TAKEN INTO ACCOUNT WHEN REWINDING TURNING MOVEMENTS.
 2. GATES SHALL BE PROVIDED UNLESS THE DUMPSTER IS BLOCKED FROM VIEW FROM THE PUBLIC RIGHT-OF-WAY AND ADJUTING PROPERTIES BY BUILDINGS OR WALLS.
 3. TRASH CONTAINERS SHALL BE LOCATED A MINIMUM DISTANCE OF 25' FROM ANY DRAINAGE STRUCTURE, INLET OR STORMWATER FACILITY.

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: SITE
1	NOTE 2	01/10		
2	DATE	12/08		

MULTIPLE DUMPSTER PAD

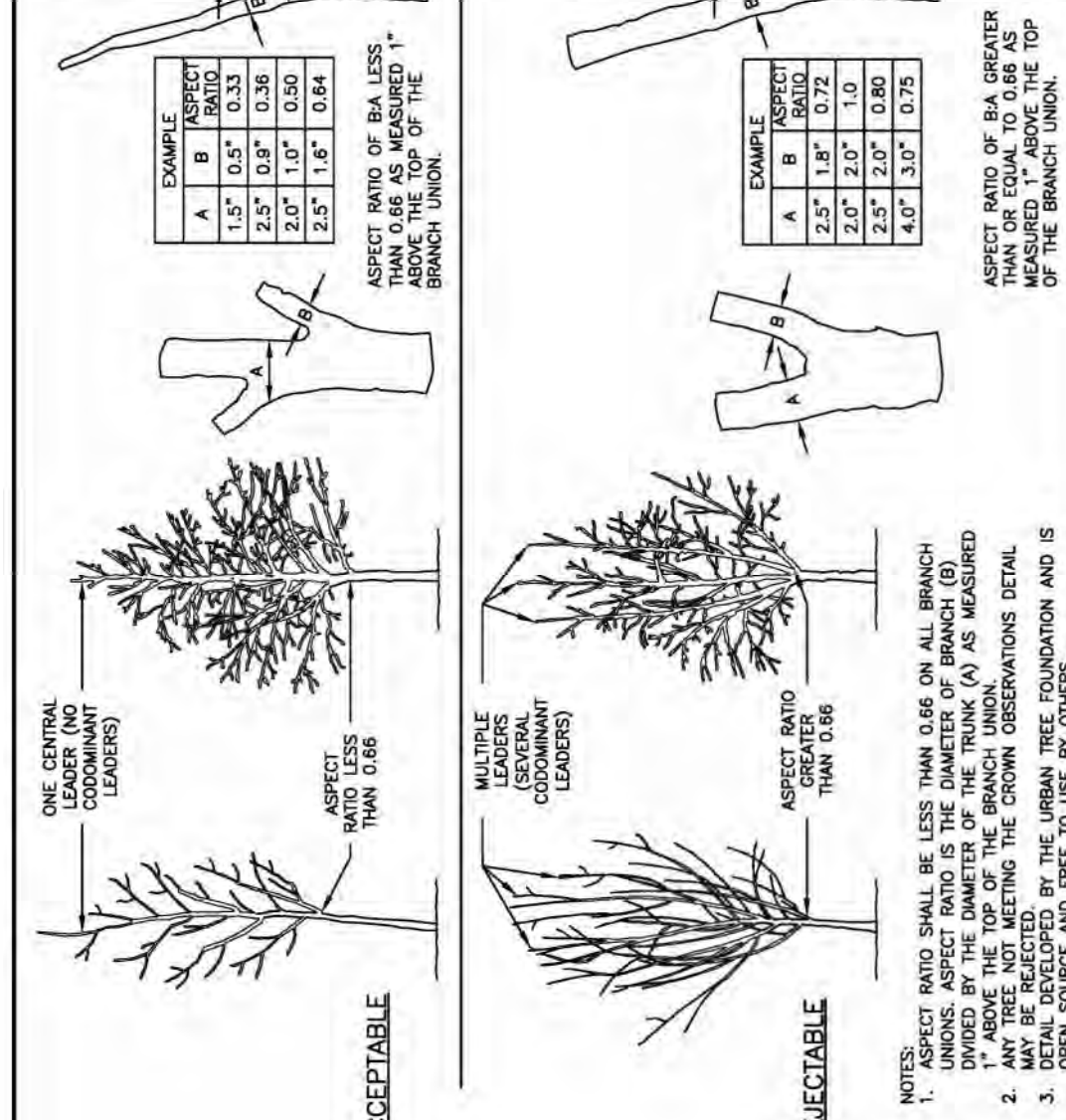
E



- NOTE:
- ONLY USE PLASTIC CHAINLOCK (LANDSCAPE QUALITY AND SUITABLE FOR GUYING TREES) OR EQUIVALENT GUYING MATERIAL.

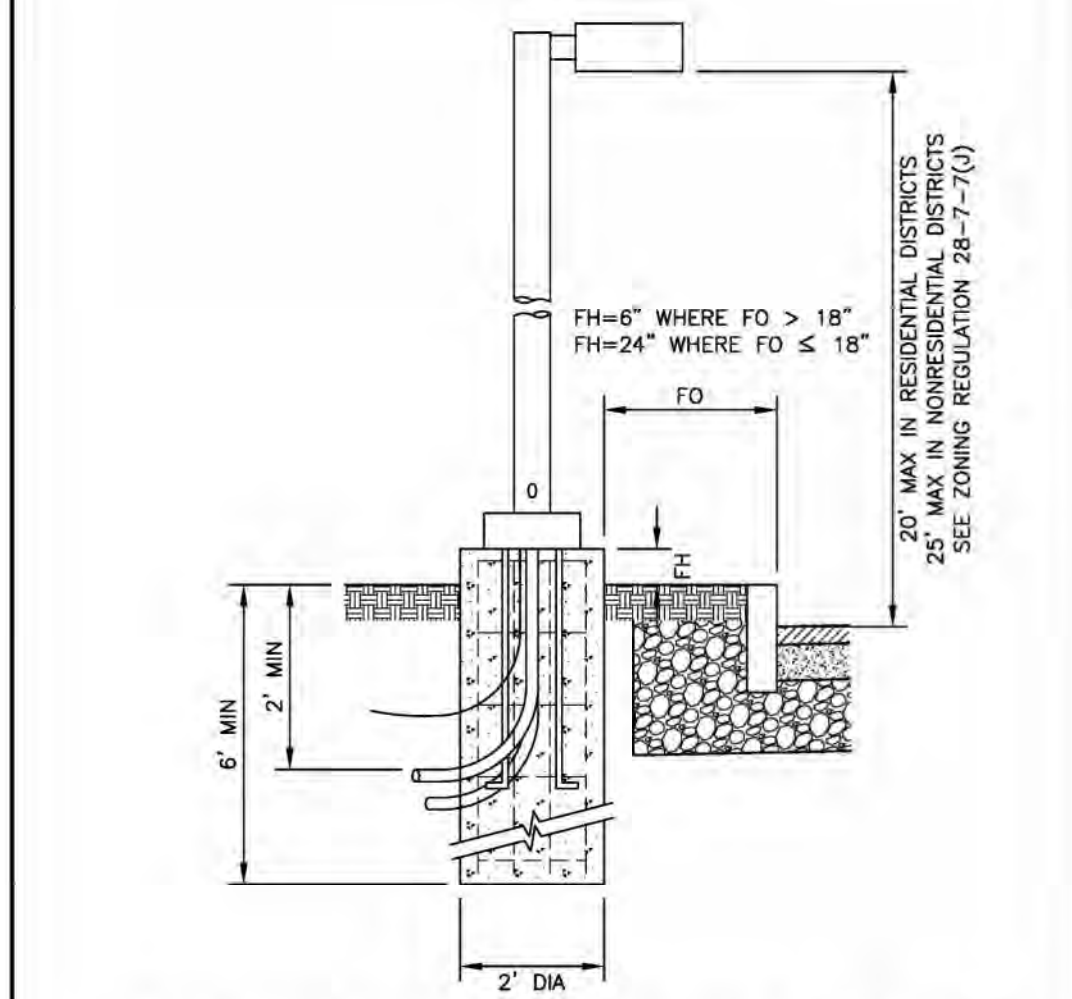
NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
1	NOTES	4.15		
2	DATE	12/08		

DECIDUOUS TREE - GUYING & STAKING



NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
1	NOTES	4.15		
2	DATE	04/15		

CROWN OBSERVATIONS HIGH BRANCHED



THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. IT IS THE USER'S RESPONSIBILITY TO ENSURE INSTALLATION OF THE EQUIPMENT/SYSTEM IN ACCORDANCE WITH BUILDING/PROJECT SPECIFICATIONS, APPLICABLE CODES AND STANDARDS.

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: ROADWAY
1	DRAFTING	11/11		
2	POST #/FT	6/13		
3	DATE	01/14		

TYPICAL LIGHT POLE AND FOUNDATION

OWNER
CATCH Neighborhood Housing
105 Loudon Rd Unit 1
Concord, NH 03301
P. () F. ()

CONSTRUCTION MANAGER
NA

CONSULTANTS:

CIVIL

NOBIS GROUP
18 CHENELL DRIVE
CONCORD, NH 03301
(603) 224-1182

LANDSCAPE

WARRENSTREET ARCHITECTS
4 CRESCENT STREET, UNIT 2
CONCORD, NH 03303
(603) 225-0640

STRUCTURAL

MECHANICAL/PLUMBING

ELECTRICAL

OTHER

Warrenstreet
Planning Landscapes Architecture Interiors

WARRENSTREET ARCHITECTS, INC.
4 CRESCENT STREET, UNIT 2
CONCORD, NEW HAMPSHIRE 03303
P. (603) 225-0640
WWW.WARRENSTREET.COOP

SEAL:



PROJECT TITLE / ADDRESS:

CATCH FISHERVILLE ROAD
HOUSING

43 FISHERVILLE ROAD
CONCORD, NH 03303

PLAN KEY:

SCALE: AS NOTED DWN BY: WAI
PROJECT #: 4041 CHK BY: WAI
PRINT DATE: 6/16/2026 10:14:35 PM

ISSUE DATE: 06/12/2026
NOT FOR CONSTRUCTION
SCHEMATIC DESIGN

REV. DATE COMMENTS

LANDSCAPE DETAILS

LA103

SHEET NUMBER: 3 OF 7 LANDSCAPE
THE DRAWING AND ITS CONTENT IS THE INTELLECTUAL PROPERTY OF WARRENSTREET ARCHITECTS INC. WITH THE SOLE INTENT TO BUILD THE PROJECT TITLED ABOVE AT ONE LOCATION NOTED HEREIN. THE USE OF THE CONTENT FOR ANY OTHER PURPOSE IS PROHIBITED AND PROTECTED UNDER COPYRIGHT LAW.
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three inches = one foot
one inch = one foot
one and one half inches = one foot
one inch = one foot
one inch = one foot
one quarter inch = one foot
three quarters inch = one foot
one eighth inch = one foot
four eighths = one foot
C:\Users\chardr\Documents\4041 FISHERVILLE LANDSCAPE MODEL.ctb
11/25/2019

LANDSCAPE GENERAL SPECIFICATIONS, CONT.

- B. SOD: UPON DELIVERY OF SOD TO THE WORK SITE, USE ALL MEANS NECESSARY TO PROTECT AND MAINTAIN THE SOD BEFORE, DURING AND AFTER INSTALLATION. DELIVERY OF SOD SHALL BE CAREFULLY COORDINATED SO ITS PLACEMENT CAN PROCEED DIRECTLY AFTER ITS ARRIVAL. SOD SHALL BE INSTALLED ON SITE NO MORE THAN 24 HOURS AFTER CUTTING.
- C. FERTILIZER/LIME: FERTILIZER AND LIME SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL, UNOPENED CONTAINERS BEARING THE MANUFACTURER'S GUARANTEED CHEMICAL ANALYSIS, NAME, TRADE NAME, TRADEMARK, AND CONFORMANCE WITH STATE AND FEDERAL LAWS. IN LIEU OF CONTAINERS, BOTH MATERIALS MAY BE FURNISHED IN BULK AND A CERTIFICATE INDICATING THE ABOVE INFORMATION SHALL ACCOMPANY EACH DELIVERY.
- D. STORAGE: SEED, HYDROMULCH, HYDROMULCH BINDER, FERTILIZER AND LIME SHALL BE KEPT IN DRY STORAGE AWAY FROM CONTAMINANTS. THEY SHALL BE UNIFORM IN COMPOSITION, DRY, UNFROZEN AND FREE FLOWING. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY MATERIAL WHICH HAS BECOME CAKED FOR OTHERWISE DAMAGED OR DOES NOT MEET SPECIFIED REQUIREMENTS.
- E. REPLACEMENTS: IN THE EVENT OF REJECTION OF THE SEED, IMMEDIATELY MAKE ALL REPLACEMENTS NECESSARY TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.
- F. SCHEDULES:
1. SEASONAL LIMITATIONS CONDUCT SEEDING OPERATIONS DURING THE SPECIFIED TIME PERIODS. IF SPECIAL CONDITIONS EXIST THAT MAY WARRANT A VARIANCE IN THE SPECIFIED PLANT DATES OR CONDITIONS, A WRITTEN REQUEST SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT STATING THE SPECIAL CONDITIONS AND PROPOSED VARIANCE.
- G. NOTICE TO PROCEED:
1. THE CONTRACTOR SHALL NOT PROCEED WITH SEEDING AND SOD PLACEMENT OPERATIONS UNTIL THE IRRIGATION SYSTEM HAS BEEN TESTED AND APPROVED.

PART 2: MATERIALS

- 2.1 TOPSOIL
- A. TOPSOIL REQUIRED SHALL BE OBTAINED FROM ON-SITE STOCKPILED MATERIAL WHICH WILL BE PLACED BY THE SITE CONTRACTOR. SHOULD ADDITIONAL TOPSOIL BE NEEDED TO BRING LANDSCAPE AREAS UP TO GRADE, THEN IT SHALL BE FURNISHED AND PLACED BY THE SITE CONTRACTOR, WITH IMPORTED MATERIAL FROM A LOCALLY APPROVED SOURCE.
- B. TOPSOIL SHALL BE A FINE SANDY LOAM OR A 'SANDY LOAM' AS DETERMINED BY MECHANICAL ANALYSIS AND BASED ON THE 'USDA' CLASSIFICATION SYSTEM. IT SHALL BE OF UNIFORM COMPOSITION, WITHOUT ADMIXTURE OF SUBSOIL, LOOSE, FRIABLE, AND SHALL CONTAIN ORDINARY AMOUNT OF HUMUS. IT SHALL CONTAIN NO LUMPS OF SOIL, ROCKS LARGER THAN 1 INCH, OR STUCKS, OR ROOTS, AND OTHER DEBRIS. IT SHALL BE SUFFICIENTLY FERTILE TO SUSTAIN NORMAL HEALTHY LAWN GROWTH AND SHALL NOT HAVE A PH VALUE HIGHER THAN 7.0 OR LOWER THAN 6.5 THE TOPSOIL SHALL BE DELIVERED IN AN UNFROZEN AND NON-MUDDY CONDITION AND MUST MEET THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- C. THE LOAM PLACED IN LANDSCAPE AREAS ON THE SITE MUST BE TESTED AND AMENDED AS RECOMMENDED BY SOIL TESTING FOR LAWNS AND PLANTING. THE COST OF ANY AMENDMENT TO THE LOAM AND TOPSOIL SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY. THE SITE CONTRACTOR SHALL FURNISH ADDITIONAL TOPSOIL AS REQUIRED.
- 2.2 SEED
- A. GENERAL:
1. CONTRACTOR SHALL SUBMIT CERTIFICATION TAGS FOR APPROVAL. ALL GRASS SEED SHALL BE:
 - FREE FROM NOXIOUS WEED SEEDS AND RECLEANED GRADE A RECENT CROP SEED
 - TREATED WITH APPROPRIATE FUNGICIDE
 - DELIVERED TO THE SITE IN SEALED CONTAINERS WITH DEALER GUARANTEED ANALYSIS.
- B. FINE LAWN SEED MIXTURE
1. ALL SEEDED, FINE LAWN AREAS AND INTENDED FOR THE PLAYFIELD AREAS AS DESIGNATED ON THE PLANS, SHALL BE SEEDDED WITH THE MIXTURE HEREIN SPECIFIED:
- | NAME OF GRASS | PROPORTION BY WEIGHT |
|----------------------------|----------------------|
| CLASSIC KENTUCKY BLUEGRASS | 20% |
| KENTUCKY BLUEGRASS | 20% |
| PERENNIAL RYEGRASS | 20% |
| SR4200 PERENNIAL RYEGRASS | 15% |
| SHADOW E CHEWINGS FESCUE | 10% |
| SHADEMASTER RED FESCUE | 10% |
| SR5000 CHEWINGS FESCUE | 5% |
- C. NATIVE SEED MIXTURE:
1. FOR ALL TURF AREAS NOT DESIGNATED ON THE PLANS FOR USE AS FINE LAWN ON THE PLAYFIELD AREAS, SHALL BE SEEDDED WITH THE MIXTURE HEREIN SPECIFIED:
- | NAME OF GRASS | PROPORTION BY WEIGHT |
|---------------------|----------------------|
| TALL FESCUE | 53% |
| CREeping RED FESCUE | 41% |
| REDTOP | 6% |
2. ALL SEED USED SHALL MEET THE FOLLOWING MINIMUM STANDARDS:
- | PURITY | 95% |
|-------------|-----|
| GERMINATION | 85% |

- 2.3 SOD
- A. ALL SOD SHALL BE WELL ESTABLISHED MOWN, LAWN GRASS. IT SHALL BE VIGOROUS, WELL ROOTED, HEALTHY TURF FREE FROM DISEASE, INSECT PESTS, WEEDS AND OTHER GRASSES, STONES, OR OTHER DEBRIS.
- B. IT SHALL HAVE BEEN GROWN FROM A SEED MIXTURE IDENTICAL TO THAT SPECIFIED FOR THE FINE LAWN SEED MIXTURE SPECIFIED ABOVE. THIS SOD IS AVAILABLE FOR GOLD STAR SOD FARMS, CANTERBURY, NH. NOT MORE THAN 5% WEED AND UNDESIRABLE GRASSES SHALL BE ALLOWED.
- C. SOD SHALL BE A MINERAL BACKED SOD GROWN IN THE NEW ENGLAND REGION. IT SHALL BE CUT IN UNIFORMLY WIDE STRIPS, 3/4" IN THICKNESS WITH CLEAN, CUT EDGES. SOD SHALL BE ROLLED OR FOLDED PRIOR TO LIFTING AND HANDLING TO PREVENT TEARING, BREAKING, DRYING AND ANY OTHER DAMAGE.

2.4 SOIL AMENDMENTS

- A. FERTILIZER:
1. FERTILIZER TO BE SPREAD ON AREAS TO BE SEEDDED SHALL BE COMMERCIALY PREPARED AND SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT:
 - LAWN SEED AND SOD AREAS:
 - 16% NITROGEN
 - 16% PHOSPHORIC ACID
 - 16% POTASH
 - 5% ZINC
 2. USE FERTILIZER PERCENTAGE FOR ESTIMATING PURPOSES ONLY. AFTER ON-SITE, STOCKPILED TOPSOIL HAS BEEN PLACED, THE CONTRACTOR SHALL SUBMIT A LABORATORY CHEMICAL ANALYSIS TO THE LANDSCAPE ARCHITECT FOR REVIEW AND DETERMINATION OF A FERTILIZER ANALYSIS AND APPLICATION RATE. THIS CHEMICAL ANALYSIS SHALL BE OBTAINED FROM A MINIMUM OF FOUR (4) RANDOM SOIL SAMPLES SELECTED AND TAKEN IN THE FIELD PER LANDSCAPE ARCHITECT'S OWNER'S REPRESENTATIVE APPROVAL.
3. THE TOPSOIL ANALYSIS SHALL INCLUDE THE FOLLOWING CHEMICAL PARAMETERS:
- | PH | - |
|---------------------|----------|
| NITRATE | NPPM |
| ORGANIC MATTER | % |
| PHOSPHOROUS (OLSON) | PPM |
| POTASSIUM | PPM |
| SODIUM | MEQ/100G |
| SULFATE | PPM |
| CONDUCTIVITY | MMHGS/CM |
4. COMMERCIAL FERTILIZER SHALL BE COMPLETE, UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THE FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL WATERPROOF CONTAINERS, EACH BEARING THE MANUFACTURER'S STATEMENT OF ANALYSIS.
- D. SUPERPHOSPHATE:
1. INCORPORATE SUPERPHOSPHATE INTO THE TOPSOIL WITH THE FIRST APPLICATION OF COMMERCIAL FERTILIZER AT THE RATE OF TWENTY POUNDS PER THOUSAND SQUARE FEET OR AT THE RATE DETERMINED FROM THE TEST RESULTS.
- C. GROUND LESTONE:
1. INCORPORATE GROUND LESTONE INTO THE TOPSOIL AFTER IT HAS BEEN SPREAD AT THE RATE OF FIFTY POUNDS PER THOUSAND SQUARE FEET OR AT THE RATE DETERMINED FROM THE TEST RESULTS TO ACHIEVE A PH OF 6.0 TO 6.5.
- D. MULCH:
1. WHERE A SPECIFIC TYPE OF MULCH IS REQUIRED, THE TYPE WILL BE DESCRIBED IN THE EXECUTION WHERE. MULCHING REQUIREMENTS CAN BE MET EQUALLY WELL BY ONE OF SEVERAL TYPES, THE CONTRACTOR SHALL HAVE THE OPTION OF SELECTING ONE OF THE ACCEPTABLE TYPES.
 - a. ORGANIC MULCH: JACKLIN ORGANIC MULCH AS MANUFACTURED BY THE VAUGHAN-JACKLIN CORPORATION, EAST 8803 SPRAGUE, SPOKANE, WASHINGTON 9213. (TELEPHONE: (509) 926-6241), OR APPROVED EQUAL.
 - b. VEGETATIVE MULCH: VEGETATIVE MULCH MATERIAL SHALL BE COMPOSED OF WHEAT STRAW, RYE STRAW OR BARLEY STRAW, IN THAT ORDER OF PREFERENCE AND SHALL BE FREE OF NOXIOUS WEED SEEDS, STONES, DIRT, ROOTS, STUMPS, OR OTHER FOREIGN MATERIAL.
 - c. CELLULOSE FIBER MULCH: WOOD CELLULOSE FIBER MULCH SHALL CONSIST OF VIRGIN WOOD FIBERS MANUFACTURED FROM WHOLE WOOD CHIPS AND SHALL BE PROCESSED IN SUCH A MANNER THAT IT WILL NOT CONTAIN ANY GROWTH OR GERMINATION INHIBITING FACTORS. THE MULCH SHALL BE DYED AN APPROPRIATED COLOR TO FACILITATE VISUAL METERING DURING APPLICATION. UPON APPLICATION, THE MATERIAL SHALL PRODUCE A MAT ABSORPTION AND PERCOLATION AND SHALL COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL. THE WOOD CELLULOSE FIBERS MUST MAINTAIN UNIFORM SUSPENSION IN WATER UNDER AGITATION.
 2. TACKIFIERS MIXED WITH OR APPLIED OVER STRAW SHALL BE TERRA-TACK AR, OR APPROVED, EQUAL OF NON-ASPHALTIC FORMULATION. TACKIFIERS USED TO ANCHOR VEGETATIVE OR CELLULOSE FIBER MULCH SHALL BE TERRA-TACK III, OR APPROVED EQUAL OF NON-ASPHALTIC FORMULATION.
- F. WATER:
1. WATER SHALL BE AVAILABLE FROM MUNICIPAL SYSTEM THROUGH CONTRACTOR.
- G. EROSION CONTROL BLANKET:
1. EROSION CONTROL FABRIC MAY BE REQUIRED AS AN ADDITIONAL MEASURE TO PREVENT EROSION ON SLOPES GREATER THAN 2:1 AND IN DRAINAGE SWALES. IF THIS MATERIAL IS NECESSARY AND AUTHORIZED WHILE WORK IS IN PROGRESS, THEN THE MATERIAL SHALL BE CURLEX EROSION CONTROL BLANKET CONSISTING OF A DENSE MAT OF CURLED AND SEASONED ASPEN WOOD EXCELSIOR BOUND WITH A TOUGH, PHOTO-DEGRADABLE, EXTRUDED PLASTIC MESH AS MANUFACTURED BY AMERICAN EXCELSIOR CO., ARLINGTON, TEXAS OR APPROVED EQUAL.

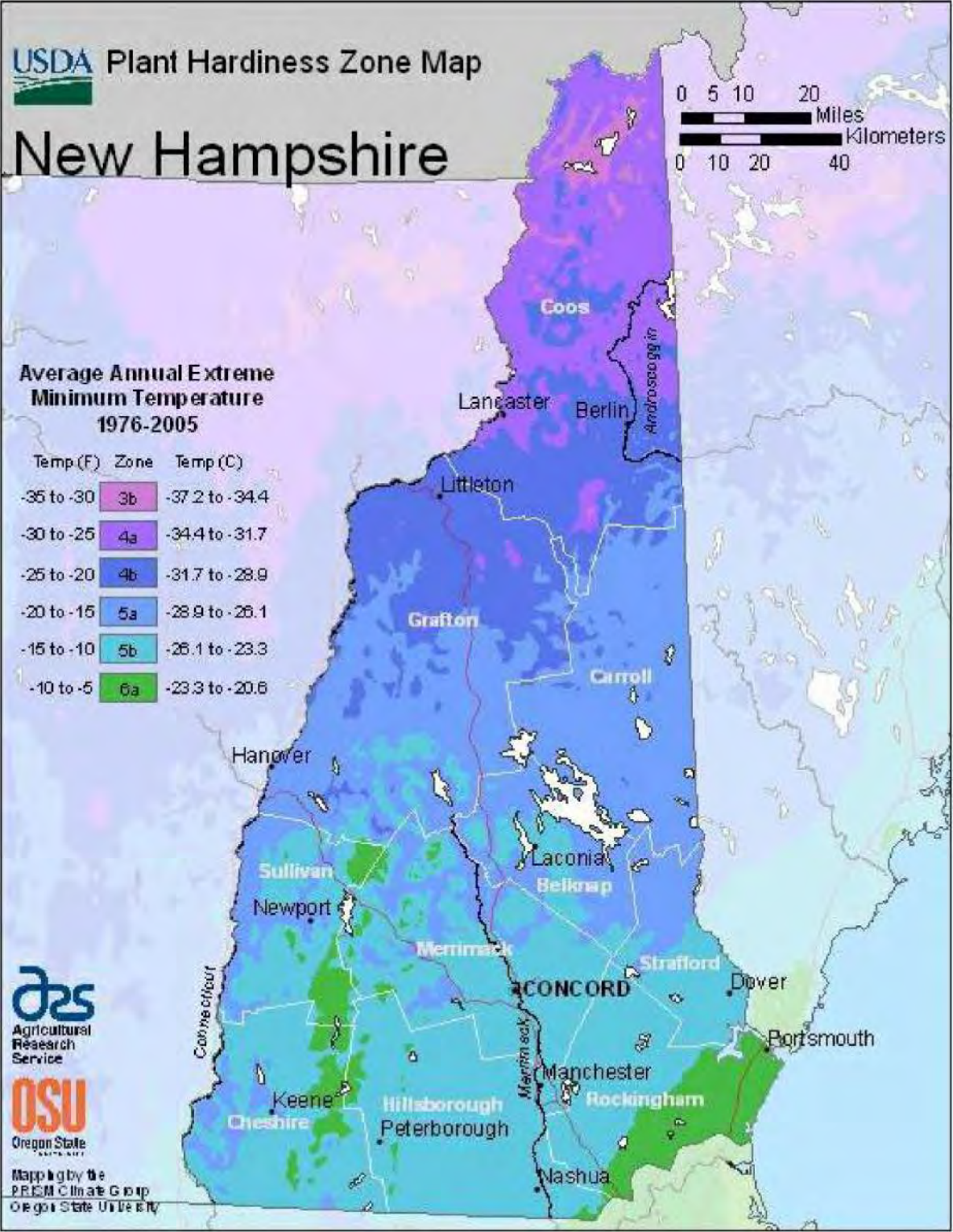
PART 3: EXECUTION

- 3.1 SURFACE CONDITIONS
- A. INSPECTION:
1. PRIOR TO ALL WORK OF THIS SECTION, CAREFULLY INSPECT THE INSTALLED WORK OF ALL OTHER TRADES AND VERIFY THAT ALL SUCH WORK IS COMPLETE TO THE POINT WHERE THIS INSTALLATION MAY PROPERLY COMMENCE. VERIFY THAT SEEDING MAY BE COMPLETED IN ACCORDANCE WITH THE ORIGINAL DESIGN AND THE REFERENCED STANDARDS.
- B. DISCREPANCIES:
1. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.
 2. DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED.
- 3.2 SEED BED PREPARATION
- A. SUBGRADE PREPARATION:
1. SEED BED PREPARATION SHALL PERTAIN TO THE PREPARATION OF THE SURFACE OF THE GROUND TO RECEIVE THE SEED. THE GROUND SHALL BE HAND OR MACHINE RAKED SO AS TO REMOVE ALL DEBRIS, CLODS, STONES, OR OTHER FOREIGN MATTER LARGER THAN 1 INCH, TO A DEPTH OF 4 INCHES. PRIOR TO DUMPING AND SPREADING OF TOPSOIL, THE SURFACE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 2 INCHES TO FACILITATE BONDING OF TOPSOIL TO SUBGRADE SOIL. WHERE SUBGRADES HAVE BEEN COMPACTED ARTIFICIALLY SCARIFY TO A DEPTH OF 6 INCHES. PRIOR TO SPREADING TOPSOIL, ALL SUBGRADES SHALL BE GRADED EVENLY ACCORDING TO THE CONTRACT DOCUMENTS.
 2. SUCH DEBRIS, CLODS, ROCKS, AND OTHER MATERIAL SO REMOVED SHALL BE DISPOSED OF AS APPROVED BY THE LANDSCAPE ARCHITECT/OWNER'S REPRESENTATIVE. SEED BED PREPARATION SHALL NOT COMMENCE UNTIL THE MOISTURE CONDITIONS MAKE THE GROUND AREA AND SOIL FRIABLE.
- B. PREPARING UNDISTURBED AREAS:
1. AREAS TO BE SEEDDED, WHICH HAVE NOT BEEN DISTURBED BY SITE GRADING OR TOPSOIL STRIPPING OPERATIONS, SHALL BE MOWED AND RAKED PRIOR TO TILLING AND TOPSOILING OPERATIONS. TILLAGE OF THE EXISTING VEGETATION INTO THE GROUND WILL NOT BE ACCEPTED.

3.3 TOPSOIL PLACEMENT

- A. SPREADING:
1. TOPSOIL SHALL BE SPREAD EVENLY ON THE PREPARED AREAS TO A MINIMUM DEPTH OF 6 INCHES AFTER MACHINE COMPACTION. SPREADING SHALL NOT BE DONE WHEN THE GROUND OR TOPSOIL IS FROZEN OR EXCESSIVELY WET. AFTER SPREADING, ANY LARGE, STIFF CLODS OR HARD LUMPS SHALL BE BROKEN UP AND THE GROUND SHALL BE HAND OR MACHINE RAKED TO REMOVE ALL DEBRIS, STONES, AND FOREIGN MATTER LARGER THAN 1 INCH TO A DEPTH OF 4 INCHES.
- B. FINISH GRADING:
1. GRADE THE AREAS TO FINISH GRADES FILLING AS NEEDED OR REMOVING SURPLUS DIRT AND FLOATING AREAS TO A SMOOTH UNIFORM GRADE. ALL LAWN AREAS SHALL SLOPE TO DRAIN. WHERE NO GRADES ARE SHOWN, AREAS SHALL HAVE A SMOOTH AND CONTINUAL GRADE BETWEEN EXISTING OR FIXED CONTROLS (SUCH AS WALKS, CURBS, OR WALLS). RAKE AND LEVEL AS NECESSARY TO OBTAIN TRUE EVEN LAWN SURFACES. ALL FINISH GRADES SHALL MEET THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE SEED IS SOWN OR SOD IS PLACED.
 2. SEED BED PREPARATION:
 1. AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDDED SHALL BE LOOSENEED TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEED BED. THE INTENT IS A TEXTURE CAPABLE OF RETAINING WATER, SEED, AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEED BED NOT MORE THAN 48 HOURS AFTER THE SEED BED HAS BEEN PREPARED.
 2. IF THERE HAS BEEN A TIME LAPSE BETWEEN THE PLACEMENT OF TOPSOIL AND SEEDING OPERATIONS TO ALLOW IT TO BECOME SETTLED AND COMPACTED ON THE SURFACE, THE AREA TO BE PLANTED WITH SEED SHALL BE THOROUGHLY HARROWED, WORKED TO A DEPTH OF 4 INCHES SO AS TO PROVIDE A SURFACE OF SUCH CONDITION THAT IT WILL ALLOW HAND RAKING AND APPLICATION OF THE SEED IN COMPLIANCE WITH THESE SPECIFICATIONS.
- D. FERTILIZER/SOIL AMENDMENTS:
1. APPLICATION OF FERTILIZER WILL BE IN 2 STAGES. TWO WEEKS PRIOR TO APPLICATION OF SEED, FERTILIZER SHALL BE APPLIED AT THE RATE OF 3 LBS/1000 S.F. FOR TURF AREAS. FERTILIZER SHALL BE APPLIED BY BROADCASTING OR DRILL METHODS. IT SHALL BE APPLIED SEPARATELY FROM THE SEED AND MIXED INTO THE SOIL TO A MINIMUM DEPTH OF 2 INCHES AND MAY BE INCORPORATED AS PART OF THE TOPSOIL PLACEMENT AND SEED BED PREPARATION OPERATIONS. SPRINKLE IMMEDIATELY AFTER INITIAL APPLICATION OF THE FERTILIZER WITH A FINE SPRAY UNTIL GROUND IS THOROUGHLY SATURATED, WITH PARTICULAR CARE TO AVOID RUNOFF ON SLOPING AREAS.
 2. THE 2ND APPLICATION WILL FOLLOW THE FOLLOWING SEASON WITHIN THE SPECIFIED WARRANTY PERIOD AT A RATE DETERMINED BY SOIL TEST RESULTS FOR BOTH TURF AND NATIVE GRASS/WILDFLOWER AREAS.
 3. APPLICATION OF SUPERPHOSPHATE AND GROUND LESTONE SHALL BE APPLIED AT RATES DETERMINED BY SOILS TEST RESULTS.
- E. SEEDING:
1. IMMEDIATELY PRIOR TO THE APPLICATION OF THE SEED, THE SOIL SHALL BE LOOSE TO A DEPTH OF AT LEAST 1 INCH AND FREE FROM ALL MATERIAL AS SPECIFIED. IF SOIL IS TOO LOOSE OR DRY FOR GOOD HANDLING, IT SHOULD BE MOISTENED AND ROLLED LIGHTLY.
 2. SEEDING SHALL BE DONE WITHIN THE SPECIFIED TIME PERIODS AND AT THE FOLLOWING RATES:
 - a. FINE LAWN SEED SHALL BE SOWN AT A RATE OF 3.0 POUNDS PER 1000 SQUARE FEET AND SHALL BE PLANTED IN THE SPRING FROM APRIL 1ST TO MAY 30TH OR IN THE FALL FROM AUGUST 16TH TO OCTOBER 1ST.
 - b. NATIVE SEED MIX SHALL BE SOWN AT A RATE OF 5.0 POUNDS PER 1000 SQUARE FEET AND SHALL BE PLANTED IN THE SPRING FROM APRIL 1ST TO MAY 30TH OR IN THE FALL FROM AUGUST 16TH TO OCTOBER 1ST.
- F. METHODS:
1. SEEDING BY DRILL IS PREFERABLE, HOWEVER, HYDRAULIC SEEDING OR BROADCASTING WILL BE PERMITTED. BROADCAST SEEDING AND HYDRAULIC SEEDING SHALL NOT BE USED DURING ADVERSE WEATHER.
 2. AREAS SOWN BY HYDRAULIC OR BROADCAST METHODS WILL BE VISUALLY INSPECTED FOR UNIFORMITY OF APPLICATION. AREAS WHICH FAIL TO REVEAL AN AVERAGE OF TWO SEEDS PER SQUARE INCH WILL BE RESOWN AT NO ADDITIONAL EXPENSE TO THE OWNER.
 3. THE APPLIED SEED, REGARDLESS OF APPLICATION, SHALL NOT BE COVERED BY A SOIL THICKNESS NO GREATER THAN 1/2 INCH.
 4. SEEDING BY DRILL:
 - a. SEEDING EQUIPMENT USED FOR APPLYING GRASS SEED MUST BE DESIGNED, MODIFIED, OR EQUIPPED TO REGULATE THE APPLICATION RATE AND PLANTING DEPTH OF GRASS SEED. SEED MUST BE UNIFORMLY DISTRIBUTED IN THE DRILL HOPPER DURING THE DRILLING OPERATION. ALL GRASS ESTABLISHMENT EQUIPMENT SHALL BE OPERATED PERPENDICULAR TO THE SLOPE DRAINAGE. A DRILL SHALL BE NO WIDER THAN THE WIDTH OF THE AREA WHICH IT IS TO OPERATE. THE ROWS OF PLANTED SEEDS SHALL BE A MAXIMUM OF 8 INCHES APART AND SHALL BE AT RIGHT ANGLES TO THE FINISHED SLOPES.
 5. BROADCAST SEEDING:
 - a. WHEN SEED IS SOWN BY BROADCASTING, EXERCISE GREAT CARE THAT A UNIFORM DISTRIBUTION OF SEED IS OBTAINED. SEEDING SHALL BE DONE ON A STILL DAY USING A HOPPER TYPE SEEDER WITH ONE HALF OF THE SEED FOR EACH AREA BEING SOWN AT RIGHT ANGLES TO THE OTHER HALF. SEED DISTRIBUTION BY BROADCASTING SHALL BE COVERED WITH 1/4 TO 1/2 INCH OF SOIL. THE SEED MAY BE COVERED BY RAKING, DRAGGING, OR BY APPROPRIATE MECHANICAL MEANS.
 6. HYDRAULIC SEEDING:
 - a. WHEN HYDRAULIC SEED IS USED, SEED AND MULCH SHALL BE APPLIED IN SEPARATE AND DISTINCT OPERATIONS EXCEPT FOR THE FOLLOWING:
 - THE CONTRACTOR MUST PROVIDE ONE POUND OF MULCH PER EACH THREE GALLONS OF WATER IN THE HYDROSEEDER AS A CUSHION AGAINST SEED DAMAGE. THE MULCH USED AS A CUSHION MAY BE PART OF THE TOTAL REQUIRED MULCH WITH THE REMAINDER APPLIED AFTER THE SEED IS METERING DURING APPLICATION.
 - THE CONTRACTOR MAY APPLY MULCH AND LAWN SEED MIX HYDRAULICALLY IN A SINGLE APPLICATION, PROVIDING ONE HALF OF THE SEED HAS BEEN SOWNED BY BROADCAST OR DRILL METHODS AS AN INITIAL APPLICATION AND THE RATE OF APPLICATION OF LAWN SEED MIX INCREASED BY 4 POUNDS PER 1000 SQUARE FEET.
 - THE APPLICATION OF THE SEED SLURRY SHALL BE MADE WITH EQUIPMENT HAVING A BUILT-IN AGITATION SYSTEM AND OPERATING CAPACITY SUFFICIENT TO AGITATE, SUSPEND AND HOMOGENEOUSLY MIX A SLURRY CONTAINING WATER, SEED, AND MULCH OF SEED. THE SLURRY SHALL BE SPRAYED OVER THE SOIL IN A UNIFORM COAT. ALL HYDRAULICALLY SEED AREAS SHALL BE HYDROMULCHED UPON COMPLETION.
- G. WATERING:
1. WATERING IMMEDIATELY AFTER SEEDING OR MULCHING WITH A FINE SPRAY TO A DEPTH OF 6 INCHES. AVOID RUNOFF ON SLOPING AREAS.
 2. THE SURFACE LAYER OF THE SOIL MUST BE KEPT DAMP BY FREQUENT LIGHT WATERING DURING THE GERMINATION PERIOD AND UNTIL PLANTS ARE FIRMLY ROOTED.
- H. PROTECTION:
1. PROTECT ALL SEEDDED AREAS BY ERECTING TEMPORARY FENCES, BARRIERS, SIGNS, ETC. AS NECESSARY TO PREVENT TRAMPING. THEY SHALL REMAIN IN PLACE FOR AT LEAST SIX WEEKS UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE LANDSCAPE ARCHITECT.
- I. MULCHING:
1. GENERAL:
 - a. MULCH ALL HYDROSEEDED AREAS, DRAINAGE SWALES, SLOPES 4:1 OR STEEPER, AND ANY AREAS WHERE LIKELY HAZARD OF EROSION EXISTS. TOPSOIL OR SEED WHICH WASHES OUT FOR REASONS ATTRIBUTABLE TO THE CONTRACTOR'S ACTIVITIES OR FAILURE TO TAKE PROPER PRECAUTIONS, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - b. ALL STRUCTURES SHALL BE PROTECTED FROM HYDRAULIC APPLICATION OF MULCH MATERIAL AND MATERIAL DEPOSITED ON FACILITIES SHALL BE REMOVED.
 2. MULCH SHALL NOT BE APPLIED IN THE PRESENCE OF FREE SURFACE WATER, BUT MAY BE APPLIED ON DAMP GROUND.
 3. APPLICATION OF ORGANIC MULCH:
 - a. WET APPLICATION: ORGANIC MULCH SHALL BE MIXED WITH WATER AT A RATE OF ONE POUND MULCH (DRY WEIGHT) TO ONE GALLON OF WATER HYDRAULICALLY APPLIED AS PER MANUFACTURERS RECOMMENDATIONS AT A MINIMUM RATE OF 2000 POUNDS PER ACRE.
 - b. DRY APPLICATION: ORGANIC MULCH SHALL BE BROADCAST AT A MINIMUM RATE OF 2000 POUNDS PER ACRE, AND SHALL BE ROLLED LIGHTLY TO SET FIRMLY INTO THE SOIL.
 4. APPLICATION OF WOOD CELLULOSE FIBER MULCH:
 - a. WOOD CELLULOSE FIBER MULCH SHALL BE APPLIED HYDRAULICALLY. IT SHALL BE MIXED WITH WATER AT THE RATE SPECIFIED BY THE MANUFACTURER AND SHALL BE MIXED IN STANDARD HYDRAULIC MULCHING EQUIPMENT TO FORM A HOMOGENEOUS SLURRY. THE SLURRY SHALL BE SPRAYED UNIFORMLY OVER THE SURFACE AT A MINIMUM RATE OF 1800 POUNDS PER ACRE.
 5. APPLICATION OF VEGETABLE MULCH:
 - a. MULCH SHALL BE APPLIED IN A UNIFORM MANNER WITH A MULCH SPREADER AT A MINIMUM RATE OF 1-1/2 TONS PER ACRE WHERE REQUIRED MULCH SHALL BE ANCHORED INTO THE SEED BED BY TUCKING OR APPLICATION OF A TACKIFYING AGENT.
 6. ANCHORING MULCH:
 - a. GENERAL: ANCHOR MULCH IN ALL AREAS SEEDDED WHICH ARE IN THE CONTRACTOR'S OPINION HIGHLY SUSCEPTIBLE TO EROSION.
 - b. APPLICATION: MULCH TACKIFIERS SHALL BE MIXED WITH WATER AT A RATE SPECIFIED BY THE MANUFACTURER AND SHALL BE APPLIED AT A MINIMUM RATE OF 40 POUNDS PER ACRE.
 7. CURLEX EROSION CONTROL BLANKETS:
 - a. GENERAL: FURNISH AND INSTALL 'CURLEX' BLANKETS TO SLOPES WHICH ARE IN THE CONTRACTOR'S OPINION HIGHLY SUSCEPTIBLE TO EROSION AND ITS OCCURRENCE CANNOT BE PREVENTED BY ANY OTHER MEANS.
 - b. APPLICATION: BLANKETS WILL BE APPLIED VERTICALLY TO THE SLOPE AND ATTACHED TO THE SLOPE WITH U-SHAPED METAL STAPLES, WITH LEGS 6" IN LENGTH AND 1" CROWN. SIZE, GAUGE AND NUMBER OF STAPLES WILL VARY WITH GROUND CONDITIONS, SLOPE, ETC.

USDA PLANT HARDINESS ZONE MAP



NH INVASIVE SPECIES WATCH LIST

NEW HAMPSHIRE INVASIVE SPECIES COMMITTEE - APPROVED BY THE ISC APRIL 11, 2018

- THE NH INVASIVE PLANT SPECIES WATCH LIST IS A NON-REGULATORY REFERENCE TOOL THAT SERVES TO:
1. IDENTIFY POTENTIALLY INVASIVE NON-NATIVE PLANT SPECIES BASED ON DEGREE OF INVASIVE QUALITIES (E.G., AGGRESSIVE GROWTH, RAPID REPRODUCTION, AND/OR LACK OF NATURAL HERBIVORES) AND PRESENCE (BUT NOT NECESSARILY ABUNDANCE) IN NH AND/OR NEARBY ELSEWHERE IN NEW ENGLAND
 2. INFORM PREVENTION (E.G., EARLY DETECTION/RAPID RESPONSE), MONITORING, AND MANAGEMENT DECISION-MAKING FOR SPECIES THAT MAY IMPACT NYS ECOSYSTEMS OR ECONOMY
 3. INCREASE AWARENESS OF INVASIVE PLANT SPECIES.

SCIENTIFIC NAME	SYNONYMS	COMMON NAME
ABUTILON THEOPHRASTI MEDIK.		VELVETLEAF INDIAN-MALLOW
ACER GINNALA MAXIM.		AMUR MAPLE
AGROSTEMMA GITHAGO L. VAR. GITHAGO	LYCHNIS GITHAGO (L.) SCOP.	COMMON CORNCOCKLE
AIRA CARYOPHYLLEA L.	ASPRIS CARYOPHYLLEA (L.) WASH	COMMON SILVER-HAIRGRASS
ALIMUM VINEALE L.		CROW GARLIC
AMORPHIA FRUTICOSA L.	AMORPHA FRUTICOSA L. VAR. ANGUSTIFOLIA PURSH; A. FRUTICOSA L. VAR. OBLONGIFOLIA PALMER; A. FRUTICOSA L. VAR. TENNESSEENSIS (SHUTTJ.W. EX KUNZE) PALMER	FALSE INDIGO-BUSH
ARALIA ELATA (MIQ.) SEEM.	DIMORPHANTHUS ELATUS MIQ.	JAPANESE ANGELICA-TREE
BARBAREA VULGARIS AIT. F.	BARBAREA ARCUTATA (OPIZ EX J. & K. PRESL) REICHENB.; B. STRICTA, OF AUTHORS NOT ANDRZ.; B. VULGARIS VAR. ARCUTATA (OPIZ EX J. & K. PRESL) FRIES; CAMPE BARBAREA (L.) W. WIGHT EX PIPER; C. STRICTA, OF AUTHORS NOT (ANDRZ.) W. WIGHT EX PIPER; ERYSIMUM BARBAREA L.	GARDEN YELLOW-ROCKET
BRASSICA JUNCEA (L.) CZERN.	BRASSICA JUNCEA (L.) CZERN. VAR. CRISPIFOLIA BAILEY; SINAPIS JUNCEA L.	CHINESE MUSTARD
BRASSICA NIGRA (L.) W.D.J. KOCH	SINAPIS NIGRA L.	BLACK MUSTARD
BROMUS TECTORUM L.	ANISANTHA TECTORUM (L.) NEVSKI	CHEAT BROME
CARDAMINE IMPATIENS L.		NARROW-LEAVED BITTER-CRESS
CENTAUREA JACEA L.	CENTAUREA DEBEAUXII GREN. & GODR. SSP. THUILLIERI DOSTÁL; C. JACEA L. SSP. DECIPiens (THUILL.) ČELÁK; C. JACEA L. SSP. PRATENSIS ČELÁK; C. PRATENSIS THUILL.; C. THUILLIERI (DOSTÁL) J. DUVERN. & LAMBINON; CYANUS JACEA (L.) P. GAERTN.; JACEA PRATENSIS LAM.	BROWN KNAPWEED
CENTAUREA NIGRA L.	JACEA NIGRA (L.) HILL	BLACK KNAPWEED
CHELIDONIUM MAJUS L.	CHELIDONIUM MAJUS L. VAR. LACINIATUM (P. MILL.) SYME; C. MAJUS L. VAR. PLENUM WEHRHAHN	GREATER CELANDINE
CIRSIIUM PALUSTRE (L.) SCOP.	CARDIUS PALUSTRIS L.	MARSH THISTLE
CIRSIIUM VULGARE (SAVI) TEN.	CARDIUS LANCEOLATUS L.; C. VULGARIS SAVI; CIRSIIUM LANCEOLATUM (L.) SCOP.	COMMON THISTLE
CONVOLVULUS ARVENSIS L.	STROPHOCALLOS ARVENSIS (L.) SMALL	FIELD BINDWEED
CYTISUS SCOPARIUM (L.) LINK	SPARTIUM SCOPARIUM L.	SCOTCH BROOM
DIGITARIA SANGUINALIS (L.) SCOP.	PANICUM SANGUINALE L.	HAIRY CRABGRASS
EICHORNIA CRASSIPES (MART.) SOLMS-LAUBACH	EICHORNIA SPECIOSA KUNTH; PIAROPUS CRASSIPES (MART.) RAF.	COMMON WATER-HYACINTH
ELYMUS REPENS (L.) GOULD	AGROPYRON REPENS (L.) GOULD; ELYTRIGIA REPENS (L.) DESV. EX B.D. JACKSON; TRITICUM REPENS L.	CREeping WILD-RYE
EPILOBIUM HIRSUTUM L.		HAIRY WILLOW-HERB
EPIPACTIS HELLEBORINE (L.) GRANTZ	EPIPACTIS LATIFOLIA (L.) ALL.; SERAPIAS HELLEBORINE L.	BROAD-LEAVED HELLEBORINE
EUONYMUS EUROPAEUS L.		EUROPEAN SPINDLE-TREE
EUONYMUS FORTUNEI (TURCZ.) HAND.-MAZZ	EUONYMUS FORTUNEI (TURCZ.) HAND.-MAZZ VAR. RADICANS (SIEB. EX MIQ.) REHD.; E. FORTUNEI (TURCZ.) HAND.-MAZZ VAR. VEGETUS REHD.; REHD.; E. RADICANS SIEB. EX MIQ.; E. RADICANS SIEB. EX MIQ. VAR. VEGETUS REHD.	CLIMBING SPINDLE-TREE
FESTUCA FILIFORMIS POURRET	FESTUCA CAPILLATA LAM.; F. OVINA L. VAR. CAPILLATA (LAM.) ALEF.; F. TENUIFOLIA SIBTHORP	FINE-LEAVED SHEEP FESCUE
FICARIA VERNA HUDS. SSP. FERTILIS (LAWLAFREE EX LEOGAARD) STACE	FICARIA VERNA HUDS. SSP. BULBIFERA A. & D. LÖVE; RANUNCULUS FICARIA L. SSP. BULBIFER LAMBINON; R. FICARIA L. SSP. BULBIFERA (MARSDEN-JONES) LAVALLEE, AN ILLEGITIMATE NAME; R. FICARIA VAR. BULBIFERA MARSDEN-JONES	FIG-CROWFOOT
FROELICHA GRACILIS (HOOK.) MOQ.	OPLOTHECA GRACILIS MOQ.	SLENDER COTTON-WEED
GALIUM MOLLUGO L.		WHORLED BEDSTRAW
GLEDHOMA HEDERACEA L.	GLEDHOMA HEDERACEA L. VAR. MICRANTHA MORIC; G. HEDERACEA L. VAR. PARVIFLORA (BENTH.) HOUSE; NEPETA HEDERACEA (L.) TREVISAN	GILL-OVER-THE-GROUND
HYLOTELEPHIUM TELEPHIUM (L.) H. OHBA	SEDUM PURPUREUM (L.) J.A. SCHULTES; S. PURPURASCENS W.D.J. KOCH; S. TELEPHIUM L.	PURPLE ORPINE
KOCHIA SCOPARIA (L.) SCHRAD.	BASSIA SCOPARIA (L.) A.J. SCOTT; CHENOPODIUM SCOPARIUM L.; KOCHIA SCOPARIA (L.) SCHRAD. VAR. PUBESCENS FENZL.; K. SCOPARIA (L.) SCHRAD. VAR. SUBVILLOSA MOQ.	SUMMER-CYPRESS
LAMIUM AMPLEXICAULE L. VAR. AMPLEXICAULE		COMMON HENBIT
LAMIUM PURPUREUM L.	LAMIUM DISSECTUM WITH L. HYBRIDUM, OF AUTHORS NOT VILL.	RED HENBIT
LONICERA XYLLOSTEUM L.		FLY HONEYSUCKLE
LUPINUS POLYPHYLLUS LINDL. VAR. POLYPHYLLUS	LUPINUS PALIDIPES HELLER; L. POLYPHYLLUS LINDL. VAR. ALBIFLORUS L.H. BAILEY; L. POLYPHYLLUS LINDL. VAR. PALIDIPES (HELLER) C.P. SM.	BLUE LUPINE
LYCHNIS FLOS-CUCULI L. SSP. FLOS-CUCULI	CORONARIA FLOS-CUCULI (L.) A. BRAUN; SILENE FLOS-CUCULI (L.) CLAIRVILLE	RAGGED ROBIN LYCHNIS
LYSIMACHIA ARVENSIS (L.) U. MANNIS & A. ANDERB.	ANAGALLIS ARVENSIS L.; A. ARVENSIS L. VAR. CAERULEA (SCHREB.) GREN. & GODR.; A. CAERULEA SCHREB.	SCARLET PIMPERNEL
LYSIMACHIA VULGARIS L.		GARDEN YELLOW-LOOSESTRIFE
MISCANTHUS SINENSIS ANDERSS.	MISCANTHUS SINENSIS ANDERSS. VAR. GRACILLIMUS A.S. HITCHC.	CHINESE SILVERGRASS
MYCELIS MURALIS (L.) DUMORT.	LACTUCA MURALIS (L.) FRESEN.	WALL-LETTUCE
MYOSOTIS SCORPIOIDES L.		WATER FORGET-ME-NOT
NASTURTIIUM MICROPHYLLUM BOENN. EX REICHENB.	NASTURTIIUM OFFICINALE AIT. F. VAR. MICROPHYLLUM (BOENN. EX REICHENB.) THELLUNG; RORIPPA MICROPHYLLA (BOENN. EX REICHENB.) HYL. EX A. & D. LÖVE	ONE-ROWED WATER-CRESS
NASTURTIIUM OFFICINALE AIT. F.	BAEUMERTIA NASTURTIIUM-AQUATICUM (L.) HAYEK; RORIPPA NASTURTIIUM AQUATICUM (L.) HAYEK; SISYMBRIUM NASTURTIIUM-AQUATICUM L.	TWO-ROWED WATER-CRESS
OENANTHE JAVANICA (BLUME) DC		JAVA WATER DROPWORT
PERSICARIA LONGISETA (BRUIJN) KITAGAWA	PERSICARIA CAESPITOSA (BLUME) NAKAI VAR. LONGISETA (BRUIJN) REED; POLYGONUM CAESPITOSUM BLUME VAR. LONGISETUM (BRUIJN) STEWARD; P. LONGISETUM BRUIJN	ORIENTAL LADY'S-THUMB SMARTWEED
PHELLODENDRON AMURENSE RUPE.	PHELLODENDRON AMURENSE RUPE. VAR. SACHALINENSE F. SCHMIDT; P. JAPONICUM MAXIM.; P. SACHALINENSE (F. SCHMIDT) SARG.	AMUR CORKTREE
POA COMPRESSA L.		FLAT-STEMMED BLUE GRASS
POA MEMORIALIS L.		WOOD BLUE GRASS
POPULUS ALBA L.	POPULUS ALBA L. VAR. BOLLEANIA LAUCHE	WHITE POPLAR
RANUNCULUS REPENS L.	RANUNCULUS REPENS L. VAR. DEGENERATES SCHUR; R. REPENS L. VAR. ERECTUS DC.; R. REPENS L. VAR. GLABRATUS DC.; R. REPENS L. VAR. PLENIFLORUS FERN.; R. REPENS L. VAR. VILLOSIUS LAMOTTE	SPOT-LEAVED CROWFOOT
RAPHANUS RAPHANISTRUM L. SSP. RAPHANISTRUM		WILD RADISH
RHINANTHUS MINOR L. SSP. MINOR	RHINANTHUS CRISTA-GALLI L. IN PART; R. CRISTA-GALLI L. VAR. FALLAX (WIMMER & GRAB.) DRUCE; R. STENOPHYLLUS (SCHUR) SCHINZ & THELLUNG	LITTLE YELLOW-RATTLE
RUMEX ACETOSELLA L. SSP. PYRENAICUS (POURRET EX LAPEYR.) AKEROYD	ACETOSELLA VULGARIS (KOCH) FOURR. SSP. PYRENAICA (POURRET EX LAPEYR.) Á LÖVE; RUMEX ACETOSELLA L. VAR. PYRENAICUS (POURRET EX LAPEYR.) TIMBAL-LAGRAVE; R. PYRENAICUS POURRET EX LAPEYR.	SHEEP DOCK
SECURIGERA VARIA (L.) LASSEN	CORONILLA VARIA L.	PURPLE CROWN-VETCH
SILPHIUM PERFOLIATUM L.		CUP-PLANT ROSINWEED
SINAPIS ARVENSIS L.	BRASSICA ARVENSIS RABENH.; B. KABER (DC.) L.C. WHEELER; B. KABER (DC.) L.C. WHEELER VAR. PINNATIFIDA (STOKES) L.C. WHEELER	CORN CHARLOCK
SOLANUM CAROLINENSE L. VAR. CAROLINENSE		CAROLINA NIGHTSHADE
SOLANUM DULCAMARA L.		CLIMBING NIGHTSHADE
SONCHUS ARVENSIS L.	SONCHUS ARVENSIS L. SSP. ULIGINOSUS (BIEB.) NYMAN; S. ULIGINOSUS BIEB.	FIELD SOW-THISTLE
SORBARIA SORBIFOLIA (L.) A. BRAUN	SCHIZONOTUS SORBIFOLIUS (L.) LINDL.; SPIRAEA SORBIFOLIA L.	FALSE SPIRAEA
TANACETUM VULGARE L.	CHRYSANTHEMUM ULIGINOSUM PERS.; C. VULGARE (L.) BERNH.	COMMON TANSY
TUSSILAGO FARFARA L.		COLTSFOOT
TYPHA X GLAUCA GODR.		HYBRID CATTAIL
VALERIANA OFFICINALIS L.		COMMON VALERIAN
VINCA MINOR L.		LESSER PERIWINKLE

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STRUCTURAL

MECHANICAL/PLUMBING

ELECTRICAL

OTHER

SEAL:

	A	B	C	D	E
	LANDSCAPE GENERAL SPECIFICATIONS				
	SECTION 32 84 00 - PLANTING IRRIGATION				
	PART 1 - GENERAL				
	1.1 SUMMARY				
	A. THE INTENT IS THAT THE LANDSCAPE IRRIGATION SYSTEM SHALL BE DESIGN-BUILT AND THAT ALL LAWN AND PLANTING AREAS FOR THIS PROJECT RECEIVE FULL COVERAGE OF THE IRRIGATION SYSTEM.				
	B. SECTION INCLUDES:				
	1. PIPES, TUBES, AND FITTINGS.				
	2. MANUAL VALVES.				
	3. AUTOMATIC CONTROL VALVES.				
	4. AUTOMATIC DRAIN VALVES.				
	5. SPRINKLERS.				
	6. QUICK COUPLERS.				
	7. CONTROLLERS.				
	8. BOXES FOR AUTOMATIC CONTROL VALVES.				
	1.2 ACTION SUBMITTALS				
	A. PRODUCT DATA:				
	1. PIPES, TUBES, AND FITTINGS.				
	2. MANUAL VALVES.				
	3. AUTOMATIC CONTROL VALVES.				
	4. AUTOMATIC DRAIN VALVES.				
	5. SPRINKLERS.				
	6. QUICK COUPLERS.				
	7. CONTROLLERS.				
	8. BOXES FOR AUTOMATIC CONTROL VALVES.				
	9. INCLUDE RATED CAPACITIES, OPERATING CHARACTERISTICS, ELECTRICAL CHARACTERISTICS, AND FURNISHED SPECIALTIES AND ACCESSORIES.				
	B. WIRING DIAGRAMS: FOR POWER, SIGNAL, AND CONTROL WIRING.				
	C. DELEGATED DESIGN SUBMITTAL: FOR IRRIGATION SYSTEMS ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.				
	1.3 INFORMATIONAL SUBMITTALS				
	A. COORDINATION DRAWINGS: IRRIGATION SYSTEMS, DRAWN TO SCALE, ON WHICH COMPONENTS ARE INDICATED AND COORDINATED WITH EACH OTHER, USING INPUT FROM INSTALLERS OF THE ITEMS INVOLVED. ALSO INCLUDE ADJUSTMENTS NECESSARY TO AVOID PLANTINGS AND OBSTRUCTIONS, SUCH AS SIGNS AND LIGHT STANDARDS.				
	B. ZONING CHART: INDICATE EACH IRRIGATION ZONE AND ITS CONTROL VALVE.				
	C. CONTROLLER TIMING SCHEDULE: INDICATE TIMING SETTINGS FOR EACH AUTOMATIC CONTROLLER ZONE.				
	D. FIELD QUALITY-CONTROL SUBMITTALS:				
	1. FIELD QUALITY-CONTROL REPORTS.				
	1.4 CLOSEOUT SUBMITTALS				
	A. OPERATION AND MAINTENANCE DATA.				
	1.5 QUALITY ASSURANCE				
	A. QUALIFICATIONS:				
	1. INSTALLERS: ENTITY THAT EMPLOYS A CERTIFIED IRRIGATION DESIGNER - LANDSCAPE QUALIFIED BY THE IRRIGATION ASSOCIATION.				
	B. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.				
	PART 2 - PRODUCTS				
	2.1 PERFORMANCE REQUIREMENTS				
	A. IRRIGATION ZONE CONTROL: AUTOMATIC OPERATION WITH CONTROLLER AND AUTOMATIC CONTROL VALVES.				
	B. LOCATION OF SPRINKLERS AND SPECIALTIES: DESIGN LOCATION IS APPROXIMATE. MAKE MINOR ADJUSTMENTS NECESSARY TO AVOID PLANTINGS AND OBSTRUCTIONS, SUCH AS SIGNS AND LIGHT STANDARDS. MAINTAIN 100 PERCENT IRRIGATION COVERAGE OF ALL LAWN AND PLANTING AREAS INDICATED.				
	C. DELEGATED DESIGN: DESIGN 100 PERCENT COVERAGE IRRIGATION SYSTEM, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA TO BE DETERMINED BASED UPON FINAL SITE DISTURBANCE.				
	1. AVAILABLE LAND RECORDS INDICATE THE FOLLOWING SOIL CONDITIONS: TBD				
	D. MINIMUM WORKING PRESSURES: THE FOLLOWING ARE MINIMUM PRESSURE REQUIREMENTS FOR PIPING, VALVES, AND SPECIALTIES UNLESS OTHERWISE INDICATED:				
	1. IRRIGATION MAIN PIPING: 200 PSIG.				
	2. CIRCUIT PIPING: 150 PSIG.				
	2.2 PIPES, TUBES, AND FITTINGS				
	A. COMPLY WITH REQUIREMENTS IN "PIPING SCHEDULE" ARTICLE FOR APPLICATIONS OF PIPE, TUBE, AND FITTING MATERIALS, AND FOR JOINING METHODS FOR SPECIFIC SERVICES, SERVICE LOCATIONS, AND PIPE SIZES.				
	B. PE PIPE WITH CONTROLLED ID: ASTM D2239, PE 3408 COMPOUND, SDR 15.				
	1. INSERT FITTINGS FOR PE PIPE: ASTM D2609, NYLON OR PROPYLENE PLASTIC WITH BARBED ENDS. INCLUDE BANDS OR OTHER FASTENERS.				
	C. PVC PIPE: ASTM D1785, PVC 1120 COMPOUND, SCHEDULES 40 AND 80.				
	1. PVC SOCKET FITTINGS: ASTM D2466, SCHEDULES 40 AND 80.				
	2. PVC THREADED FITTINGS: ASTM D2464, SCHEDULE 80.				
	3. PVC SOCKET UNIONS: CONSTRUCTION SIMILAR TO THAT OF MSS SP-107, EXCEPT BOTH HEADPIECE AND TAILPIECE SHALL BE PVC WITH SOCKET ENDS.				
	D. PVC PIPE, PRESSURE RATED: ASTM D2241, PVC 1120 COMPOUND, SDR 26.				
	1. PVC SOCKET FITTINGS: ASTM D2467, SCHEDULE 80.				
	2. PVC SOCKET UNIONS: CONSTRUCTION SIMILAR TO THAT OF MSS SP-107, EXCEPT BOTH HEADPIECE AND TAILPIECE SHALL BE PVC WITH SOCKET OR THREADED ENDS.				
	2.3 PIPING JOINING MATERIALS				
	A. PIPE-FLANGE GASKET MATERIALS: AWWA C110, RUBBER, FLAT FACE, 1/8 INCH THICK UNLESS OTHERWISE INDICATED; FULL-FACE OR RING TYPE UNLESS OTHERWISE INDICATED.				
	B. METAL, PIPE-FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL UNLESS OTHERWISE INDICATED.				
	C. BRAZING FILLER METALS: AWS A5.8/A5.8M, BCUP SERIES, COPPER-PHOSPHORUS ALLOYS FOR GENERAL-DUTY BRAZING UNLESS OTHERWISE INDICATED.				
	D. SOLDER FILLER METALS: ASTM B32, LEAD-FREE ALLOYS. INCLUDE WATER-FLUSHABLE FLUX IN ACCORDANCE WITH ASTM B813.				
	E. SOLVENT CEMENTS FOR JOINING PVC PIPING: ASTM D2564. INCLUDE PRIMER IN ACCORDANCE WITH ASTM F666.				
	F. PLASTIC, PIPE-FLANGE GASKET, BOLTS, AND NUTS: TYPE AND MATERIAL RECOMMENDED BY PIPING SYSTEM MANUFACTURER UNLESS OTHERWISE INDICATED.				
	2.4 MANUAL VALVES				
	A. CURB VALVES:				
	1. DESCRIPTION:				
	A. STANDARD: AWWA C800.				
	B. NPS 1 AND SMALLER PRESSURE RATING: 150 PSIG.				
	C. NPS 1-1/4 TO NPS 2 PRESSURE RATING: 800 PSIG.				
	D. BODY DESIGN: TWO PIECE.				
	E. BODY MATERIAL: FORGED BRASS.				
	F. ENDS: THREADED OR SOLDER JOINT IF INDICATED.				
	G. SEATS: PTFE OR TFE.				
	H. STEM: BRASS.				
	I. BALL: CHROME-PLATED BRASS.				
	J. PORT: FULL.				
	E. BRONZE BALL VALVES:				
	1. DESCRIPTION:				
	A. STANDARD: MSS SP-110.				
	B. SWP RATING: 150 PSIG.				
	C. CWP RATING: 600 PSIG.				
	D. BODY DESIGN: TWO PIECE.				
	E. BODY MATERIAL: FORGED BRASS.				
	F. ENDS: THREADED OR SOLDER JOINT IF INDICATED.				
	G. SEATS: PTFE OR TFE.				
	H. STEM: BRONZE.				
	I. BALL: CHROME-PLATED BRASS.				
	J. PORT: FULL.				
	F. IRON BALL VALVES:				
	1. DESCRIPTION:				
	A. STANDARD: MSS SP-72.				
	B. CWP RATING: 200 PSIG.				
	C. BODY DESIGN: SPLIT BODY.				
	D. BODY MATERIAL: ASTM A126, GRAY IRON.				
	E. ENDS: FLANGED.				
	F. SEATS: PTFE OR TFE.				
	G. STEM: STAINLESS STEEL.				
	H. BALL: STAINLESS STEEL.				
	I. PORT: FULL.				
	J. PLASTIC BALL VALVES:				
	1. DESCRIPTION:				
	A. STANDARD: MSS SP-122.				
	B. PRESSURE RATING: 150 PSIG.				
	C. BODY MATERIAL: PVC.				
	D. TYPE: UNION.				
	E. END CONNECTIONS: SOCKET OR THREADED.				
	F. PORT: FULL.				
	H. IRON GATE VALVES, RESILIENT SEATED:				
	1. DESCRIPTION:				
	A. STANDARD: AWWA C509.				
	B. PRESSURE RATING: 200 PSIG MINIMUM.				
	C. BODY MATERIAL: DUCTILE OR GRAY IRON WITH BRONZE TRIM.				
	D. END CONNECTIONS: MECHANICAL JOINT OR PUSH-ON JOINT.				
	E. INTERIOR COATING: COMPLY WITH AWWA C550.				
	F. BODY DESIGN: NONRISING STEM.				
	G. OPERATOR: STEM NUT.				
	H. DISC: SOLID WEDGE WITH RESILIENT COATING.				
	I. IRON GATE VALVE CASINGS:				
	1. STANDARD: AWWA M44 FOR CAST-IRON VALVE CASINGS.				
	2. TOP SECTION: ADJUSTABLE EXTENSION OF LENGTH REQUIRED FOR DEPTH OF BURIAL OF VALVE.				
	3. BARREL: APPROXIMATELY 5-INCH DIAMETER.				
	4. PLUG: WITH LETTERING "WATER".				
	5. BOTTOM SECTION: WITH BASE OF SIZE TO FIT OVER VALVE.				
	6. BASE SUPPORT: CONCRETE COLLAR.				
	J. OPERATING WRENCHES FOR IRON GATE VALVE CASINGS: FURNISH TWO STEEL, TEE-HANDLE OPERATING WRENCH(ES) WITH ONE POINTED END, STEM OF LENGTH TO OPERATE DEEPEST BURIED VALVE, AND SOCKET MATCHING VALVE OPERATING NUT FOR PROJECT.				
	2.5 AUTOMATIC CONTROL VALVES				
	A. BRONZE, AUTOMATIC CONTROL VALVES:				
	1. DESCRIPTION: CAST-BRONZE BODY, NORMALLY CLOSED, DIAPHRAGM TYPE WITH MANUAL-FLOW ADJUSTMENT, AND OPERATED BY 24 V AC SOLENOID.				
	B. PLASTIC, AUTOMATIC CONTROL VALVES:				
	1. DESCRIPTION: MOLDED-PLASTIC BODY, NORMALLY CLOSED, DIAPHRAGM TYPE WITH MANUAL-FLOW ADJUSTMENT, AND OPERATED BY 24 V AC SOLENOID.				
	2.6 AUTOMATIC DRAIN VALVES				
	A. DESCRIPTION: SPRING-LOADED-BALL TYPE OF CORROSION-RESISTANT CONSTRUCTION AND DESIGNED TO OPEN FOR DRAINAGE IF LINE PRESSURE DROPS BELOW 2-1/2 TO 3 PSIG.				
	2.7 SPRINKLERS				
	A. GENERAL REQUIREMENTS: DESIGNED FOR UNIFORM COVERAGE OVER ENTIRE SPRAY AREA INDICATED AT AVAILABLE WATER PRESSURE.				
	B. PLASTIC, EXPOSED, IMPACT-DRIVE ROTARY SPRINKLERS:				
	1. DESCRIPTION:				
	A. CONSTRUCTION: ABS AND CORROSION-RESISTANT METALS.				
	B. MOUNTING: ABOVEGROUND, EXPOSED ON RISER.				
	2. CAPACITIES AND CHARACTERISTICS:				
	A. FLOW: 150 GPM.				
	B. ARC: FULL OR HALF CIRCLE.				
	C. RADIUS: 20 FEET.				
	D. INLET: NPS 3/4.				
	C. PLASTIC, POP-UP, GEAR-DRIVE ROTARY SPRINKLERS:				
	1. DESCRIPTION:				
	A. BODY MATERIAL: ABS.				
	B. NOZZLE: ABS.				
	C. RETRACTION SPRING: STAINLESS STEEL.				
	D. INTERNAL PARTS: CORROSION RESISTANT.				
	2. CAPACITIES AND CHARACTERISTICS:				
	A. FLOW: 150 GPM.				
	B. POP-UP HEIGHT: 4 INCHES ABOVEGROUND TO NOZZLE.				
	C. ARC: FULL OR HALF CIRCLE.				
	D. RADIUS: 20 FEET.				
	E. INLET: NPS 3/4.				
	D. PLASTIC, POP-UP, IMPACT-DRIVE ROTARY SPRINKLERS:				
	1. DESCRIPTION:				
	A. CASE: ABS.				
	B. POP-UP HEIGHT: 4 INCHES ABOVEGROUND TO NOZZLE.				
	C. SPRINKLER CONSTRUCTION: ABS AND OTHER CORROSION-RESISTANT METALS.				
	2. CAPACITIES AND CHARACTERISTICS:				
	A. NOZZLE: BRASS.				
	B. FLOW: 150 GPM.				
	C. ARC: FULL OR HALF CIRCLE.				
	D. RADIUS: 20 FEET.				
	E. INLET: NPS 3/4.				
	E. PLASTIC, SURFACE SPRAY SPRINKLERS:				
	1. DESCRIPTION:				
	A. BODY MATERIAL AND FLANGE: ABS.				
	B. PATTERN: FIXED, WITH FLOW ADJUSTMENT.				
	2. CAPACITIES AND CHARACTERISTICS:				
	A. NOZZLE: BRASS.				
	B. FLOW: 150 GPM.				
	C. ARC: FULL OR HALF CIRCLE.				
	D. RADIUS: 20 FEET.				
	F. INLET: NPS 3/4.				
	F. PLASTIC, SURFACE, POP-UP SPRAY SPRINKLERS:				
	1. DESCRIPTION:				
	A. BODY MATERIAL AND FLANGE: ABS.				
	B. PATTERN: FIXED, WITH FLOW ADJUSTMENT.				
	2. CAPACITIES AND CHARACTERISTICS:				
	A. POP-UP HEIGHT: 4 INCHES ABOVEGROUND TO NOZZLE.				
	B. NOZZLE: BRASS.				
	C. FLOW: 150 GPM.				
	D. ARC: FULL OR HALF CIRCLE.				
	E. RADIUS: 20 FEET.				
	F. INLET: NPS 3/4.				
	G. PLASTIC, POP-UP SPRAY SPRINKLERS:				
	1. DESCRIPTION:				
	A. BODY MATERIAL: ABS OR OTHER PLASTIC.				
	B. PATTERN: FIXED, WITH FLOW ADJUSTMENT.				
	2. CAPACITIES AND CHARACTERISTICS:				
	A. FLOW: 150 GPM.				
	B. ARC: HALF CIRCLE.				
	C. RADIUS: 10 FEET.				
	D. MOUNTING HEIGHT: 4 INCHES ABOVEGROUND TO NOZZLE.				
	E. INLET: NPS 3/4.				
	H. PLASTIC SHRUB SPRINKLERS:				
	1. DESCRIPTION:				
	A. BODY MATERIAL: ABS OR OTHER PLASTIC.				
	B. PATTERN: FIXED, WITH FLOW ADJUSTMENT.				
	2. CAPACITIES AND CHARACTERISTICS:				
	A. FLOW: 150 GPM.				
	B. ARC: HALF CIRCLE.				
	C. RADIUS: 10 FEET.				
	D. MOUNTING HEIGHT: 4 INCHES ABOVEGROUND TO NOZZLE.				
	E. INLET: NPS 3/4.				
	2.8 QUICK COUPLERS				
	A. DESCRIPTION: FACTORY-FABRICATED, BRONZE OR BRASS, TWO-PIECE ASSEMBLY. INCLUDE COUPLER WATER-SEAL VALVE; REMOVABLE UPPER BODY WITH SPRING-LOADED OR WEIGHTED, RUBBER-COVERED CAP; HOSE SWIVEL WITH ASME B1.20.7, 3/4-11.5NH THREADS FOR GARDEN HOSE ON OUTLET; AND OPERATING KEY.				
	1. LOCKING-TOP OPTION: VANDAL-RESISTANT LOCKING FEATURE. INCLUDE (2) TWO MATCHING KEYS).				
	2.9 CONTROLLERS				
	A. DESCRIPTION:				
	1. CONTROLLER STATIONS FOR AUTOMATIC CONTROL VALVES: EACH STATION IS VARIABLE FROM APPROXIMATELY 5 TO 60 MINUTES. INCLUDE SWITCH FOR MANUAL OR AUTOMATIC OPERATION OF EACH STATION.				
	2. EXTERIOR CONTROL ENCLOSURES: NEMA 250, TYPE 4, WEATHERPROOF, WITH LOCKING COVER AND TWO MATCHING KEYS; INCLUDE PROVISION FOR GROUNDING.				
	A. BODY MATERIAL: MOLDED PLASTIC.				
	B. MOUNTING: SURFACE TYPE FOR WALL.				
	3. INTERIOR CONTROL ENCLOSURES: NEMA 250, TYPE 12, DRIPPROOF, WITH LOCKING COVER AND TWO MATCHING KEYS.				
	A. BODY MATERIAL: MOLDED PLASTIC.				
	B. MOUNTING: SURFACE TYPE FOR WALL.				
	4. CONTROL TRANSFORMER: 24 V SECONDARY, WITH PRIMARY FUSE.				
	5. TIMING DEVICE: ADJUSTABLE, 24-HOUR, 14-DAY CLOCK, WITH AUTOMATIC OPERATIONS TO SKIP OPERATION ANY DAY IN TIMER PERIOD, TO OPERATE EVERY OTHER DAY, OR TO OPERATE TWO OR MORE TIMES DAILY.				
	A. MANUAL OR SEMIAUTOMATIC OPERATION: ALLOWS THIS MODE WITHOUT DISTURBING PRESET AUTOMATIC OPERATION.				
	B. NICKEL-CADMIUM BATTERY AND TRICKLE CHARGER: AUTOMATICALLY POWERS TIMING DEVICE DURING POWER OUTAGES.				
	C. SURGE PROTECTION: METAL-OXIDE-VARISTOR TYPE ON EACH STATION AND PRIMARY POWER.				
	6. MOISTURE SENSOR: ADJUSTABLE FROM ONE TO SEVEN DAYS, TO SHUT OFF WATER FLOW DURING RAIN.				
	7. SMART CONTROLLERS: USE ET, TESTED IN ACCORDANCE WITH IA SWAT CLIMATOLOGICAL BASED CONTROLLERS 8TH DRAFT TESTING PROTOCOL AND COMPLIANT WITH ASHRAE 189.1.				
	8. WIRING: UL 493, TYPE UF MULTICONDUCTOR, WITH SOLID-COPPER CONDUCTORS; INSULATED CABLE; SUITABLE FOR DIRECT BURIAL.				
	A. FEEDER-CIRCUIT CABLES: NO. 12 AWG MINIMUM, BETWEEN BUILDING AND CONTROLLERS.				
	B. LOW-VOLTAGE, BRANCH-CIRCUIT CABLES: NO. 14 AWG MINIMUM, BETWEEN CONTROLLERS AND AUTOMATIC CONTROL VALVES; COLOR-CODED DIFFERENT FROM FEEDER-CIRCUIT CABLE JACKET COLOR, WITH JACKETS OF DIFFERENT COLORS FOR MULTIPLE-CABLE INSTALLATION IN SAME TRENCH.				
	C. SPLICING MATERIALS: MANUFACTURER'S PACKAGED KIT CONSISTING OF INSULATING, SPRING-TYPE CONNECTOR OR CRIMPED JOINT AND EPOXY RESIN MOISTURE SEAL; SUITABLE FOR DIRECT BURIAL.				
	9. CONCRETE BASE: REINFORCED PRECAST CONCRETE NOT LESS THAN 36 BY 24 BY 4 INCHES THICK, AND 6 INCHES GREATER IN EACH DIRECTION THAN OVERALL DIMENSIONS OF CONTROLLER. INCLUDE OPENING FOR WIRING.				
	2.10 BOXES FOR AUTOMATIC CONTROL VALVES				
	A. PLASTIC BOXES:				
	1. DESCRIPTION: BOX AND COVER, WITH OPEN BOTTOM AND OPENINGS FOR PIPING; DESIGNED FOR INSTALLING FLUSH WITH GRADE.				
	A. SIZE: AS REQUIRED FOR VALVES AND SERVICE.				
	B. SHAPE: SQUARE.				
	C. SIDEWALL MATERIAL: ABS.				
	D. COVER MATERIAL: ABS.				
	2. LETTERING: "IRRIGATION"				
	B. DRAINAGE BACKFILL: CLEANED GRAVEL OR CRUSHED STONE, GRADED FROM 3/4 INCH MINIMUM TO 3 INCHES MAXIMUM.				
	PART 3 - EXECUTION				
	3.1 EARTHWORK				
	A. EXCAVATING, TRENCHING, AND BACKFILLING ARE SPECIFIED IN SECTION 31 20 00 "EARTH MOVING."				
	B. INSTALL WARNING TAPE DIRECTLY ABOVE PRESSURE PIPING, 12 INCHES BELOW FINISHED GRADES, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SLABS.				
	C. DRAIN POCKETS: EXCAVATE TO SIZES INDICATED. BACKFILL WITH CLEANED GRAVEL OR CRUSHED STONE, GRADED FROM 3/4 TO 3 INCHES TO 1/2 INCHES BELOW GRADE. COVER GRAVEL OR CRUSHED STONE WITH SHEET OF ASPHALT-SATURATED FELT AND BACKFILL REMAINDER WITH EXCAVATED MATERIAL.				
	D. PROVIDE MINIMUM COVER OVER TOP OF UNDERGROUND PIPING ACCORDING TO THE FOLLOWING:				
	1. IRRIGATION MAIN PIPING: MINIMUM DEPTH OF 48 INCHES BELOW FINISHED GRADE, OR NOT LESS THAN 18 INCHES BELOW AVERAGE LOCAL FROST DEPTH, WHICHEVER IS DEEPER.				
	2. CIRCUIT PIPING: 12 INCHES				
	3. DRAIN PIPING: 12 INCHES				
	4. SLEEVES: 24 INCHES				
	3.2 INSTALLATION OF PIPING				
	A. LOCATION AND ARRANGEMENT: DRAWINGS INDICATE LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS ARE APPROVED ON COORDINATION DRAWINGS.				
	B. INSTALL PIPING AT MINIMUM UNIFORM SLOPE OF 0.5 PERCENT DOWN TOWARD DRAIN VALVES.				
	C. INSTALL PIPING FREE OF SAGS AND BENDS.				
	D. INSTALL GROUPS OF PIPES PARALLEL TO EACH OTHER, SPACED TO PERMIT VALVE SERVICING.				
	E. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.				
	F. INSTALL UNIONS ADJACENT TO VALVES AND TO FINAL CONNECTIONS TO OTHER COMPONENTS WITH NPS 2 OR SMALLER PIPE CONNECTION.				
	G. INSTALL FLANGES ADJACENT TO VALVES AND TO FINAL CONNECTIONS TO OTHER COMPONENTS WITH NPS 2-1/2 OR LARGER PIPE CONNECTION.				
	H. INSTALL UNDERGROUND THERMOPLASTIC PIPING IN ACCORDANCE WITH ASTM D2774.				
	I. INSTALL EXPANSION LOOPS IN CONTROL-VALVE BOXES FOR PLASTIC PIPING.				
	J. LAY PIPING ON SOLID SUBBASE, UNIFORMLY SLOPED WITHOUT HUMPS OR DEPRESSIONS.				
	K. INSTALL DUCTILE-IRON PIPING IN ACCORDANCE WITH AWWA C600.				
	L. INSTALL PVC PIPING IN DRY WEATHER WHEN TEMPERATURE IS ABOVE 40 DEG F. ALLOW JOINTS TO CURE AT LEAST 24 HOURS AT TEMPERATURES ABOVE 40 DEG F BEFORE TESTING.				
	3.3 JOINT CONSTRUCTION				
	A. REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS. BEVEL PLAIN ENDS OF STEEL PIPE.				
	B. REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPE AND FITTINGS BEFORE ASSEMBLY.				
	C. THREADED JOINTS: THREAD PIPE WITH TAPERED PIPE THREADS IN ACCORDANCE WITH ASME B1.20.1. CUT THREADS FULL AND CLEAN USING SHARP DIES. REAM THREADED PIPE ENDS TO REMOVE BURRS AND RESTORE FULL ID. JOIN PIPE FITTINGS AND VALVES AS FOLLOWS:				
	1. APPLY APPROPRIATE TAPE OR THREAD COMPOUND TO EXTERNAL PIPE THREADS UNLESS DRY SEAL THREADING IS SPECIFIED.				
	2. DAMAGED THREADS: DO NOT USE PIPE OR PIPE FITTINGS WITH THREADS THAT ARE CORRODED OR DAMAGED. DO NOT USE PIPE SECTIONS THAT HAVE CRACKED OR OPEN WELDS.				
	D. FLANGED JOINTS: SELECT RUBBER GASKET MATERIAL OF SIZE, TYPE, AND THICKNESS FOR SERVICE APPLICATION. INSTALL GASKET CONCENTRICALLY POSITIONED. USE SUITABLE LUBRICANTS ON BOLT THREADS.				
	E. DUCTILE-IRON PIPING GASKETED JOINTS: COMPLY WITH AWWA C600 AND AWWA M41.				
	F. COPPER-TUBING BRAZED JOINTS: CONSTRUCT JOINTS IN ACCORDANCE WITH CDAS "COPPER TUBE HANDBOOK," USING COPPER-PHOSPHORUS BRAZING FILLER METAL.				
	G. COPPER-TUBING SOLDERED JOINTS: APPLY ASTM B813 WATER-FLUSHABLE FLUX TO TUBE END UNLESS OTHERWISE INDICATED. CONSTRUCT JOINTS IN ACCORDANCE WITH ASTM B828 OR CDAS "COPPER TUBE HANDBOOK," USING LEAD-FREE SOLDER ALLOY (0.20 PERCENT MAXIMUM LEAD CONTENT) COMPLYING WITH ASTM B32.				
	H. PE PIPING FASTENER JOINTS: JOIN WITH INSERT FITTINGS AND BANDS OR FASTENERS IN ACCORDANCE WITH PIPING MANUFACTURER'S WRITTEN INSTRUCTIONS.				
	I. PVC PIPING SOLVENT-CEMENTED JOINTS: CLEAN AND DRY JOINING SURFACES. JOIN PIPE AND FITTINGS IN ACCORDANCE WITH THE FOLLOWING:				
	1. COMPLY WITH ASTM F402 FOR SAFE-HANDLING PRACTICE OF CLEANERS, PRIMERS, AND SOLVENT CEMENTS.				
	2. PVC PRESSURE PIPING: JOIN SCHEDULE NUMBER, ASTM D1785, PVC PIPE AND PVC SOCKET FITTINGS IN ACCORDANCE WITH ASTM D2672. JOIN OTHER-THAN-SCHEDULE-NUMBER PVC PIPE AND SOCKET FITTINGS IN ACCORDANCE WITH ASTM D2865.				
	3. PVC NONPRESSURE PIPING: JOIN IN ACCORDANCE WITH ASTM D2865.				
	3.4 INSTALLATION OF VALVES				
	A. UNDERGROUND CURB VALVES: INSTALL IN CURB-VALVE CASINGS WITH TOPS FLUSH WITH GRADE.				
	B. UNDERGROUND IRON GATE VALVES, RESILIENT SEAT: COMPLY WITH AWWA C600 AND AWWA M44. INSTALL IN VALVE CASING WITH TOP FLUSH WITH GRADE.				
	1. INSTALL VALVES AND PVC PIPE WITH RESTRAINED, GASKETED JOINTS.				
	C. ABOVEGROUND VALVES: INSTALL AS COMPONENTS OF CONNECTED PIPING SYSTEM.				
	D. THROTTLING VALVES: INSTALL IN UNDERGROUND PIPING IN BOXES FOR AUTOMATIC CONTROL VALVES.				
	E. DRAIN VALVES: INSTALL IN UNDERGROUND PIPING IN BOXES FOR AUTOMATIC CONTROL VALVES.				
	3.5 INSTALLATION OF SPRINKLERS				
	A. INSTALL SPRINKLERS AFTER HYDROSTATIC TEST IS COMPLETED.				
	B. INSTALL SPRINKLERS AT MANUFACTURER'S RECOMMENDED HEIGHTS.				
	C. LOCATE PART-CIRCLE SPRINKLERS TO MAINTAIN A MINIMUM DISTANCE OF 4 INCHES FROM WALLS AND 2 INCHES FROM OTHER BOUNDARIES UNLESS OTHERWISE INDICATED.				
	3.6 INSTALLATION OF AUTOMATIC IRRIGATION CONTROL SYSTEM				
	A. EQUIPMENT MOUNTING, INTERIOR: INSTALL CONTROLLERS ON INTERIOR WALL.				
	1. PLACE AND SECURE ANCHORAGE DEVICES. USE SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.				
	2. INSTALL ANCHOR BOLTS TO ELEVATIONS REQUIRED FOR PROPER ATTACHMENT TO SUPPORTED EQUIPMENT.				
	B. EQUIPMENT MOUNTING, EXTERIOR: INSTALL EXTERIOR FREESTANDING CONTROLLERS ON PRECAST CONCRETE BASES.				
	1. PLACE AND SECURE ANCHORAGE DEVICES. USE SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.				
	2. INSTALL ANCH				

OWNER

CATCH Neighborhood Housing
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P. () F. ()

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STRUCTURAL

MECHANICAL/PLUMBING

ELECTRICAL

OTHER

PROJECT TITLE / ADDRESS:

CATCH FISHERVILLE ROAD
HOUSING

43 FISHERVILLE ROAD
CONCORD, NH 03303

PLAN KEY:

SCALE: AS NOTED DWN BY: WAI
PROJECT #: 4041 CHK BY: WAI
PRINT DATE: 6/16/2026 10:14:39 PM

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SCHEMATIC DESIGN

REV.	DATE	COMMENTS

IRRIGATION SPECIFICATIONS

LA107

SHEET NUMBER: 7 OF 7 LANDSCAPE

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