

Context Plan

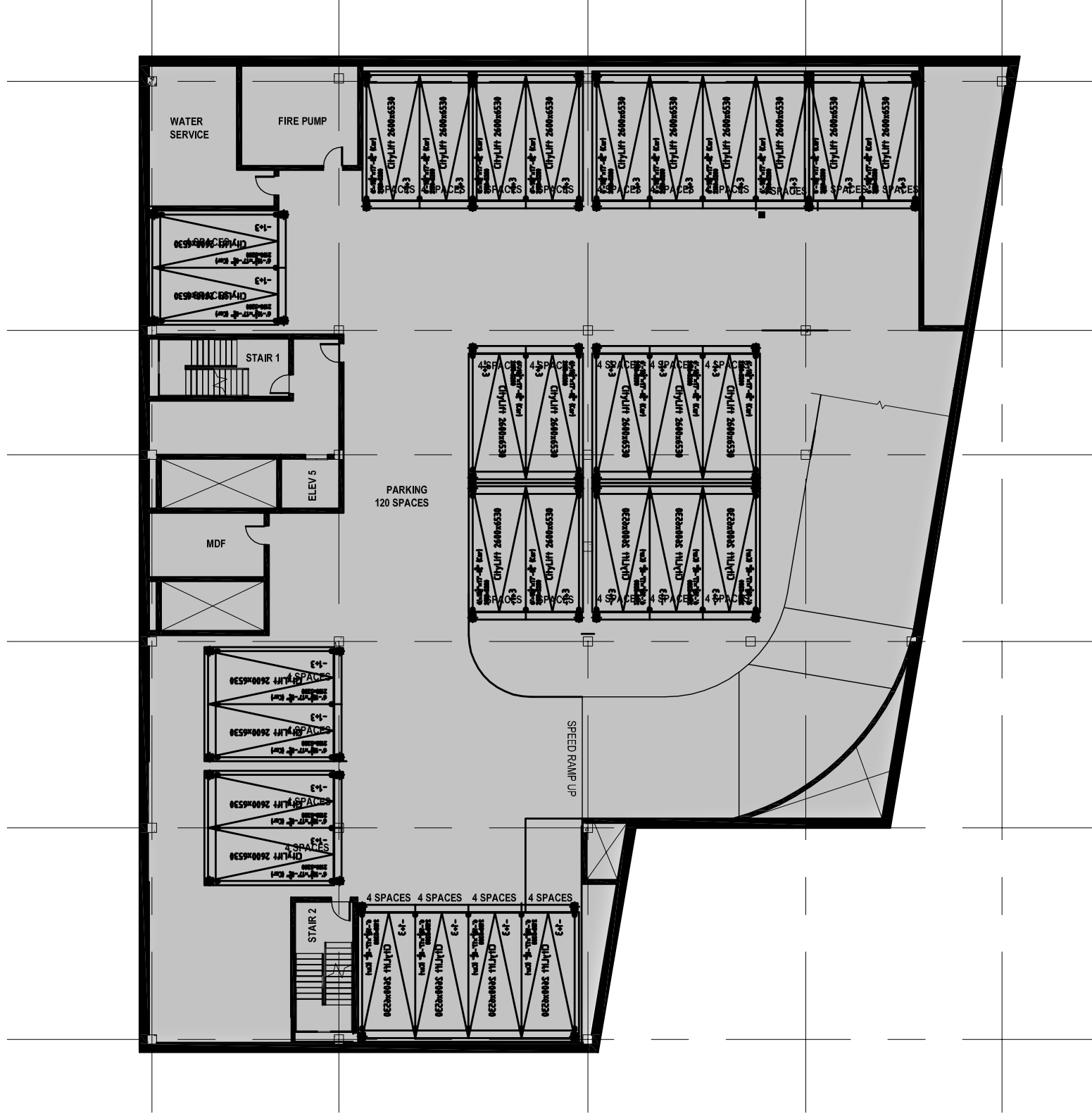


11 Dartmouth Gross Floor Area

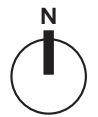
FLOOR	SQUARE FOOTAGE
LOWER LEVEL 1	18,035 SF
GROUND FLOOR	18,031 SF
MEZZ LEVEL	2,616 SF
TYPICAL LEVEL 2-9 (typ. 18,704 SF)	149,632 SF
TOTAL GSF	188,076 SF

*measured per city of Malden Zoning Requirements / IBC guidelines - Square Footage measured to inside face of exterior walls and excludes shafts

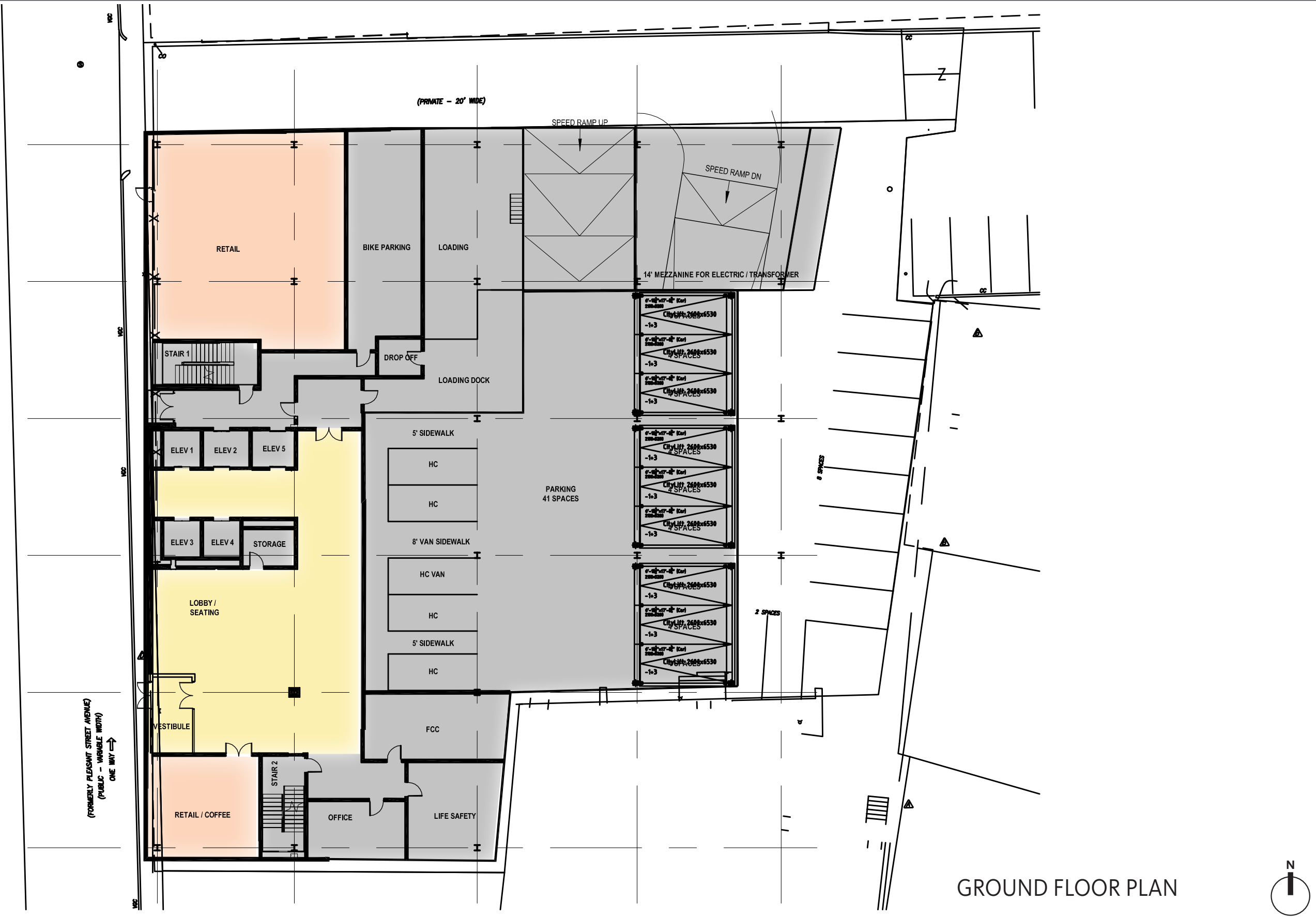
Floor Plans



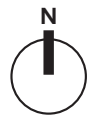
GROUND FLOOR PLAN



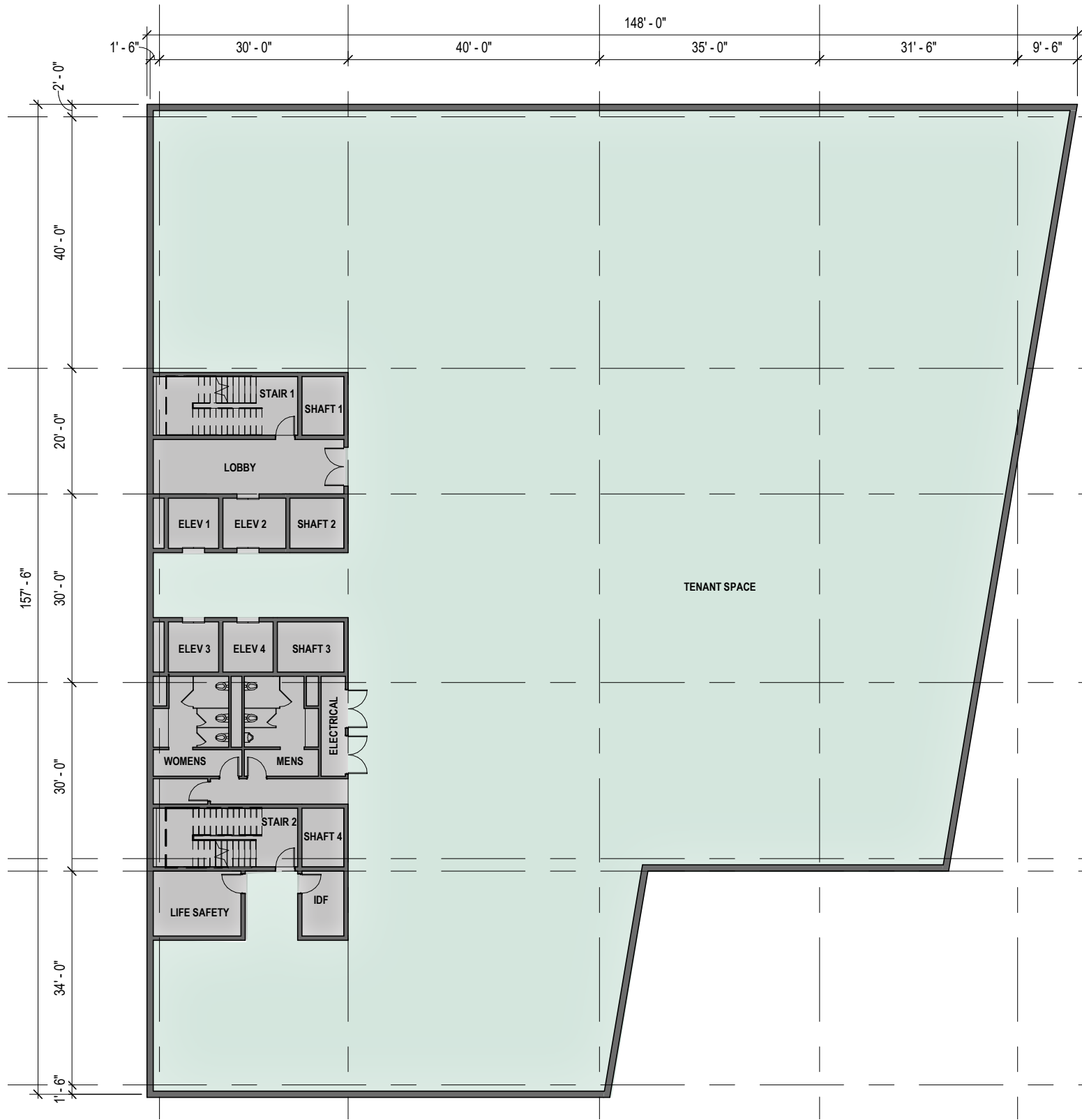
Floor Plans



GROUND FLOOR PLAN

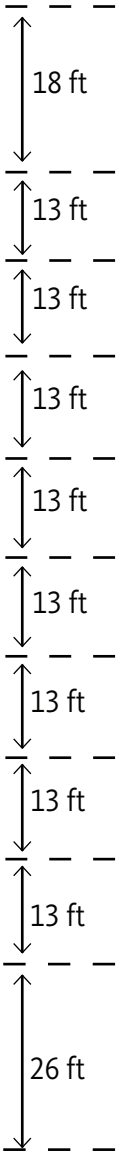
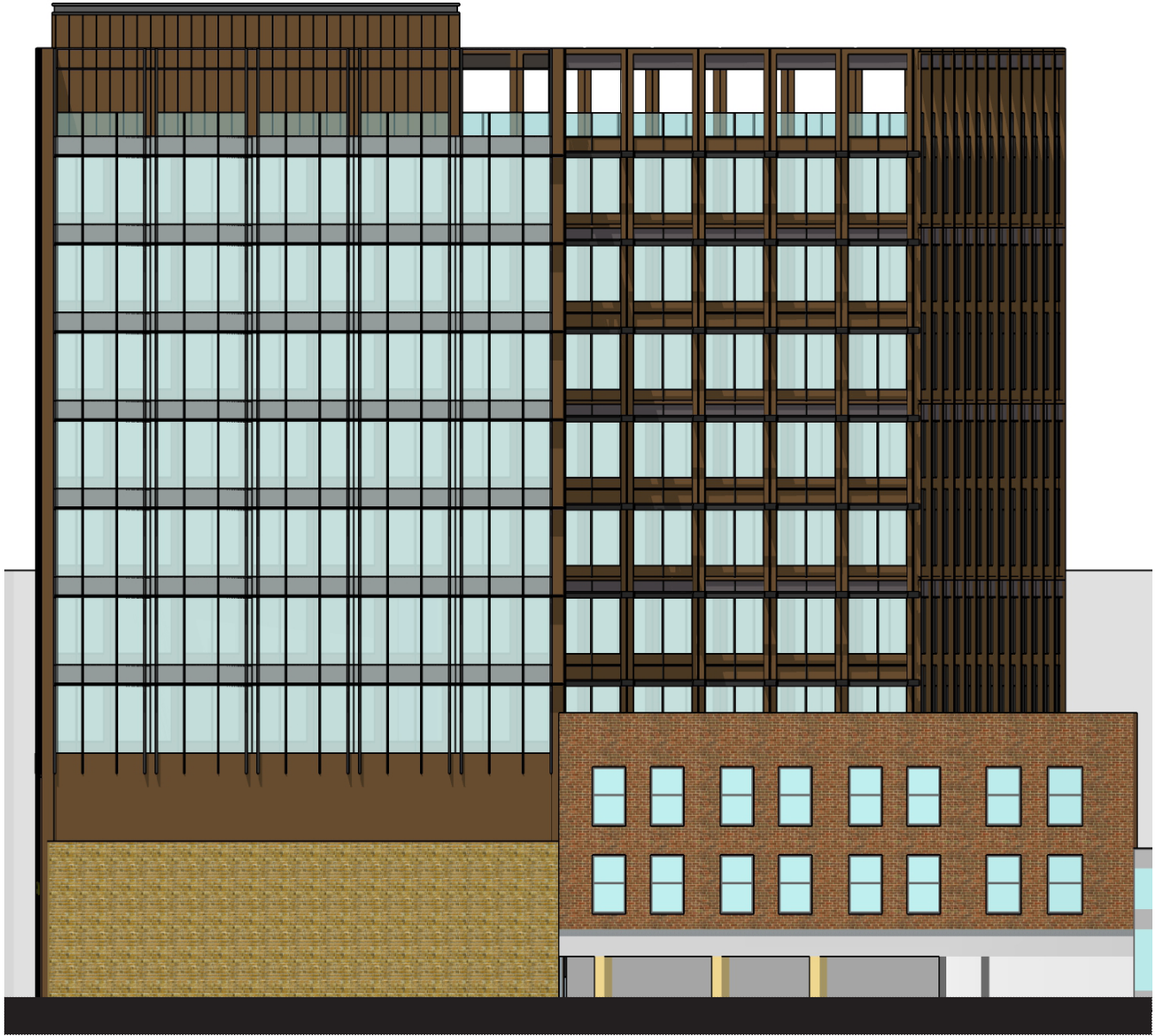


Floor Plans

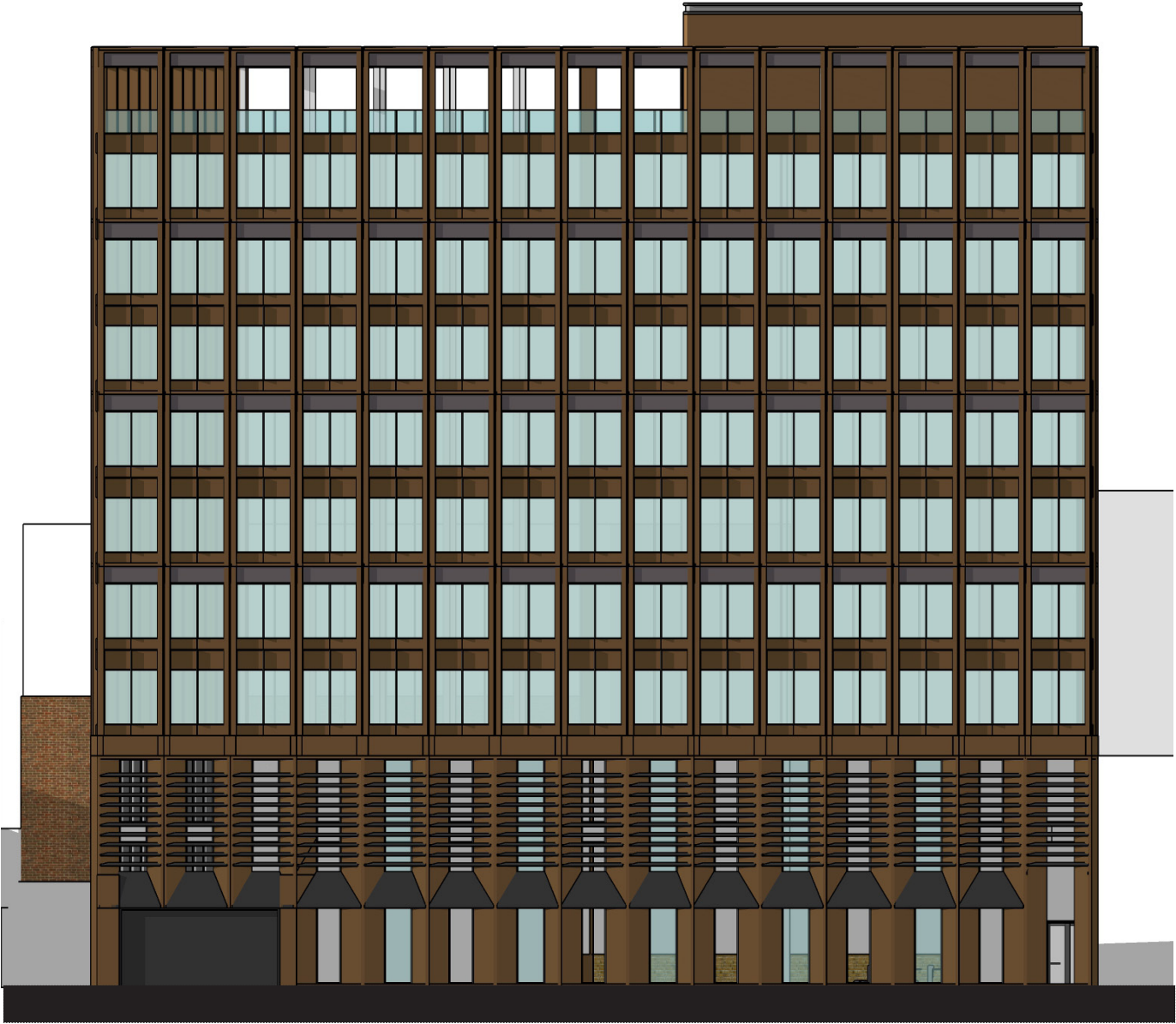


TYPICAL FLOOR PLAN LEVELS 2-9

Elevations

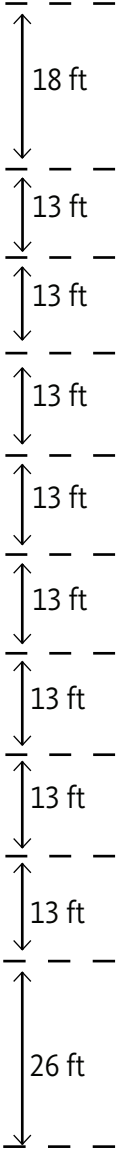
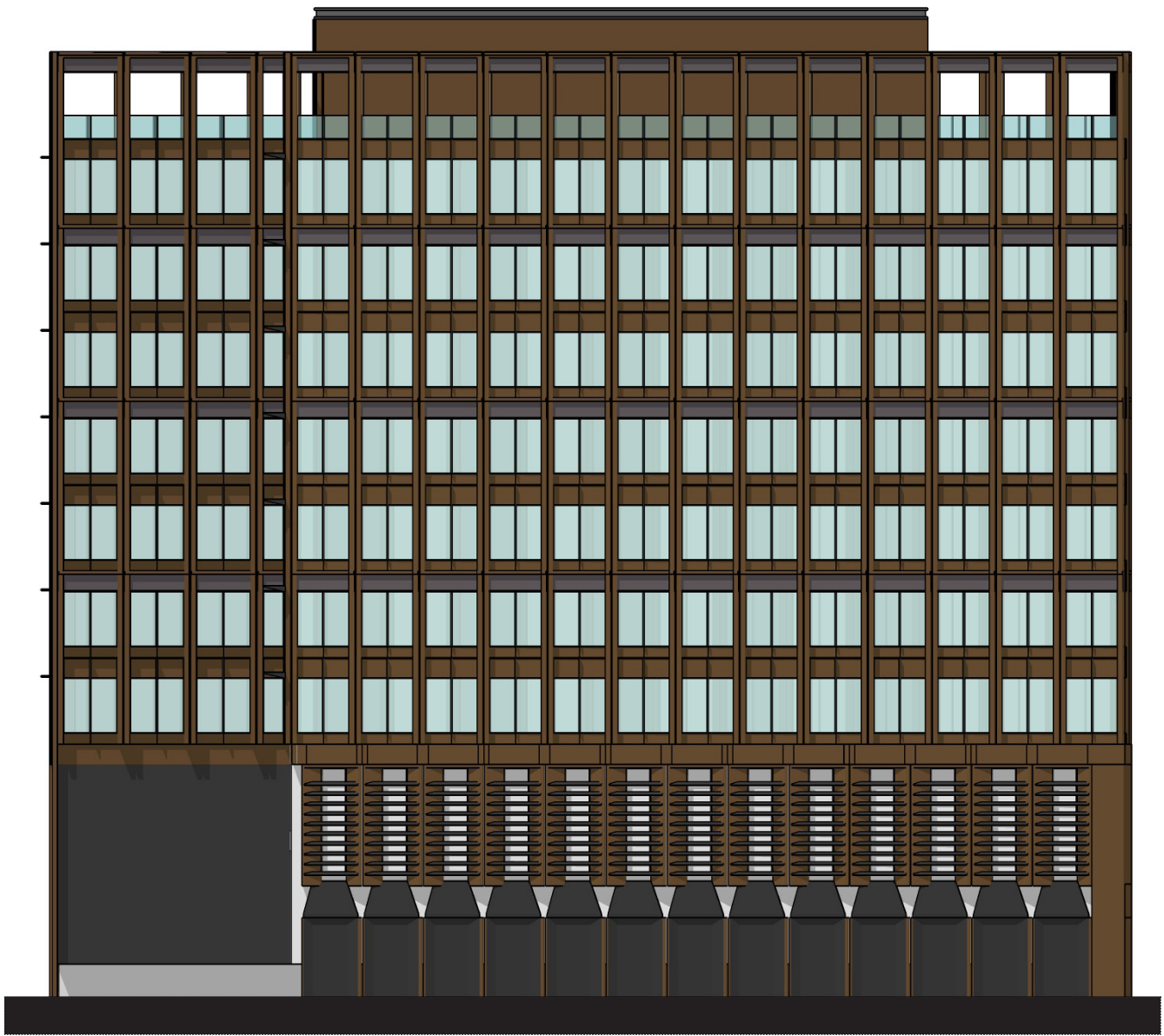


South Elevation



North Elevation

Elevations



East Elevation



West Elevation

Perspective View



Perspective Views



Facade Design



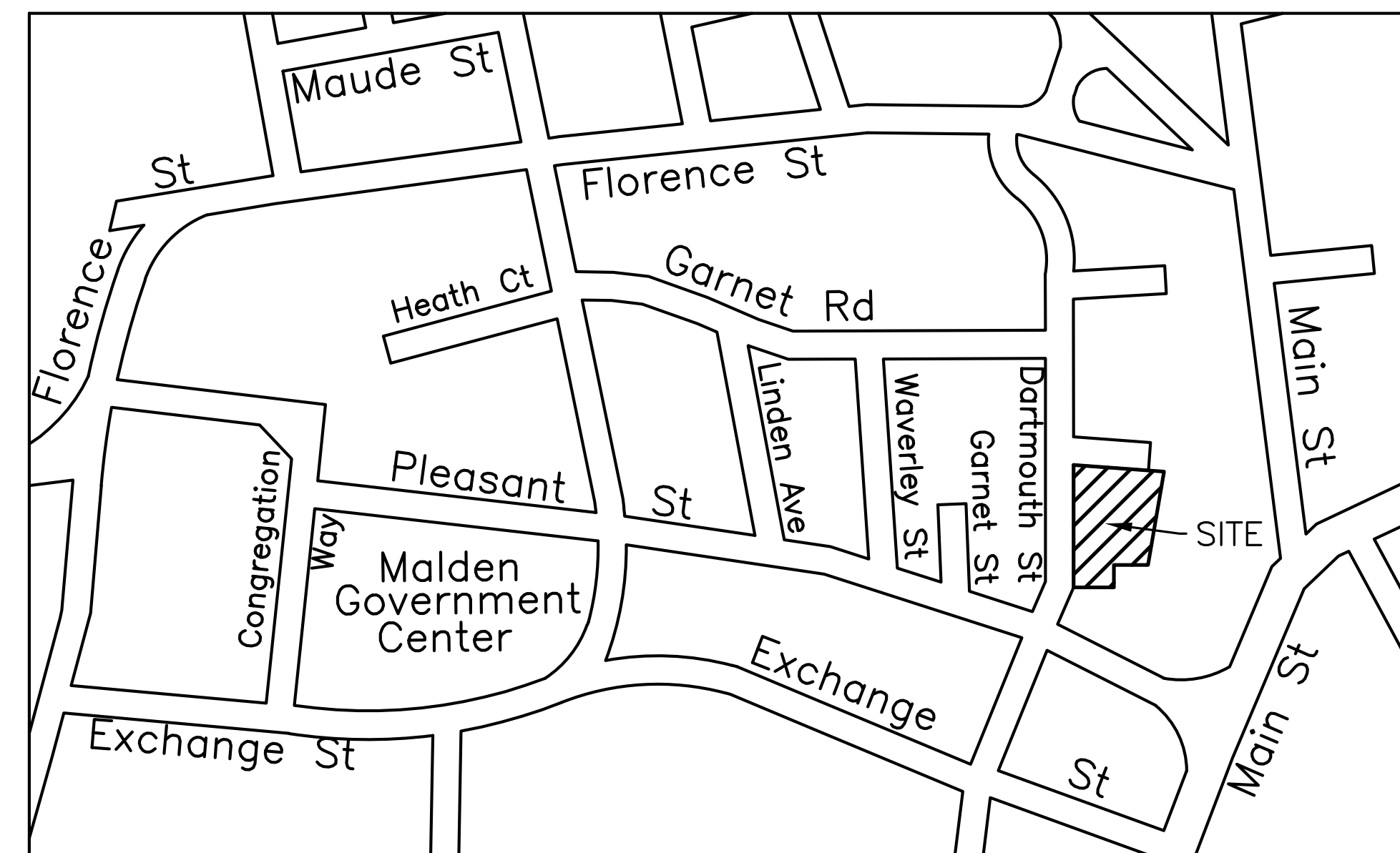
SPECIAL PERMIT PLAN SET FOR 11 DARTMOUTH STREET MALDEN, MA

GENERAL NOTES:

1. EXISTING PROPERTY LINE AND UTILITY INFORMATION SHOWN IS BASED ON AN EXISTING SURVEY CONDUCTED BY FELDMAN LAND SURVEYORS REVISED THROUGH MARCH 25, 2020
2. THE ACCURACY AND COMPLETENESS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT DIGSAFE AT 1-888-344-7233.
3. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE APPROPRIATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
5. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAVING.
6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED, REMOVED AND DISPOSED.
7. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AT HIS/HER OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.

DRAINAGE INSPECTION REQUIRED BY THE TOWN OF MALDEN:

THE TOWN OF MALDEN DEPARTMENT OF PUBLIC WORKS REQUIRES INSPECTION OF THE BOTTOM OF EXCAVATION IN INFILTRATION AREAS PRIOR TO BACKFILL. THE SITE CONTRACTOR SHALL NOTIFY THE DPW A MINIMUM OF 24 HOURS IN ADVANCE TO ARRANGE THE INSPECTION.



LOCUS MAP
1"=200'

OWNER

QUAKER LANE CAPITAL
200 PORTLAND STREET
BOSTON, MA 02114

ASSESSORS INFORMATION

ASSESSORS MAP

REFERENCES

1. EXISTING CONDITIONS PLAN BY FELDMAN LAND SURVEYORS

SPECIAL PERMIT AND VARIANCES REQUIRED

SPECIAL PERMIT UNDER SECTION 300.10

CONSULTANT:



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ARCHITECT:



11 DARTMOUTH STREET
MALDEN, MA, 02148

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	GNM	4/01/2020	CONCEPTUAL DESIGN
2	GNM	5/27/2020	SPECIAL PERMIT - DRAFT

SHEET INDEX

Sheet Number	Sheet Title
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2	SITE PREPARATION PLAN
3	SITE LAYOUT AND MATERIALS PLAN
4	DRAINAGE AND UTILITY PLAN
5	DETAIL SHEET 1
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8	DETAIL SHEET 4

SPECIAL PERMIT SET

COVER SHEET

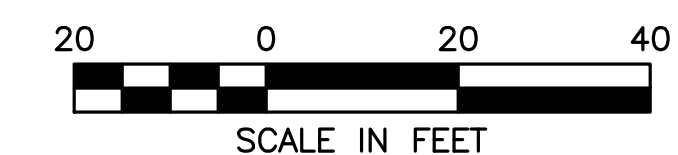
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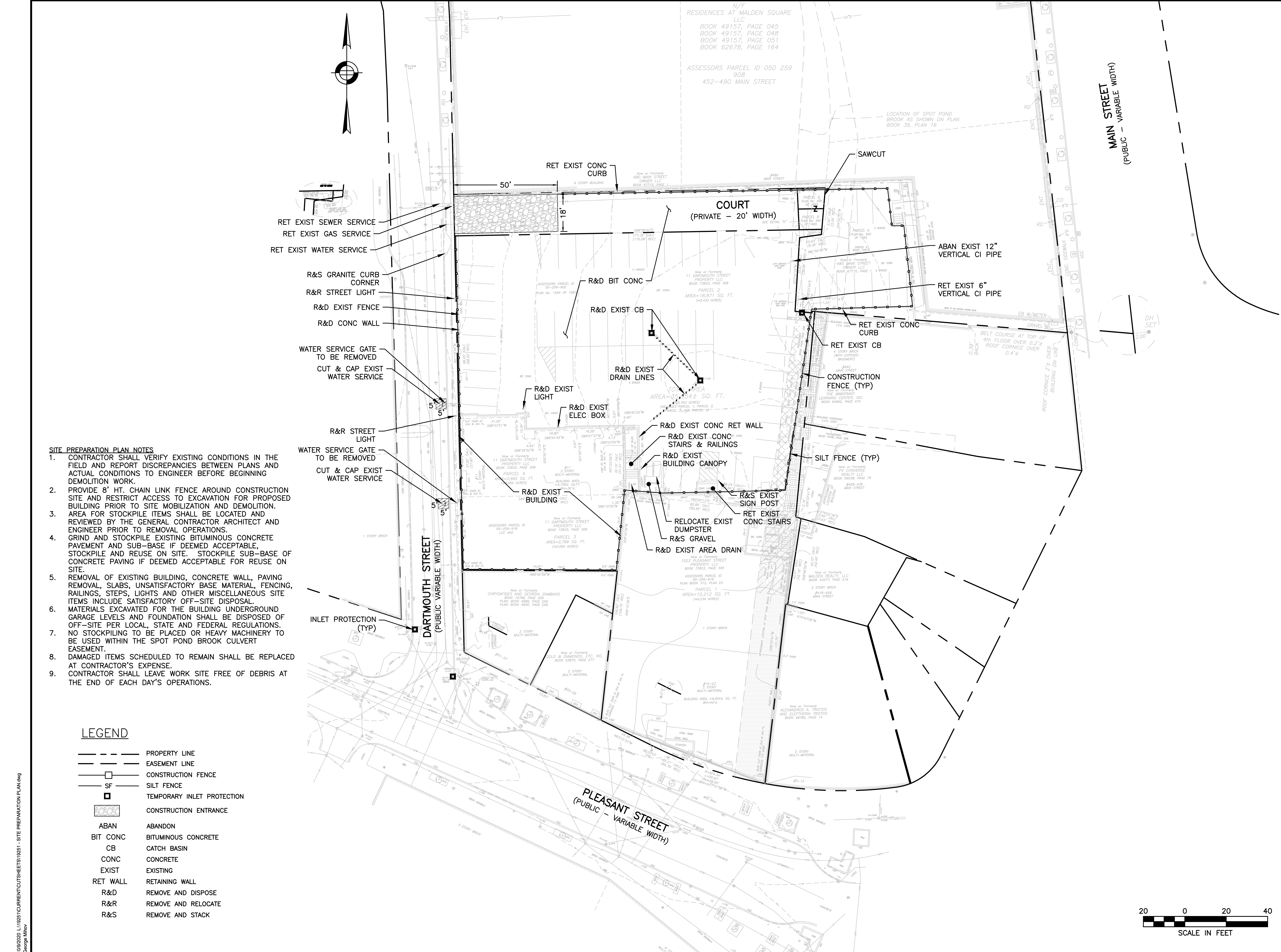
PROJECT NUMBER: 2019251

DESIGNED BY: GNM

DRAWN BY: GNM

CHECKED BY: RL



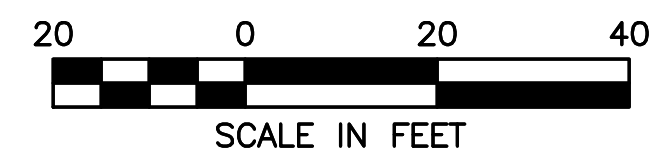


- SITE PREPARATION PLAN NOTES**
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO ENGINEER BEFORE BEGINNING DEMOLITION WORK.
 - PROVIDE 8' HT. CHAIN LINK FENCE AROUND CONSTRUCTION SITE AND RESTRICT ACCESS TO EXCAVATION FOR PROPOSED BUILDING PRIOR TO SITE MOBILIZATION AND DEMOLITION. AREA FOR STOCKPILE ITEMS SHALL BE LOCATED AND REVIEWED BY THE GENERAL CONTRACTOR ARCHITECT AND ENGINEER PRIOR TO REMOVAL OPERATIONS.
 - GRIND AND STOCKPILE EXISTING BITUMINOUS CONCRETE PAVEMENT AND SUB-BASE IF DEEMED ACCEPTABLE. STOCKPILE AND REUSE ON SITE. STOCKPILE SUB-BASE OF CONCRETE PAVING IF DEEMED ACCEPTABLE FOR REUSE ON SITE.
 - REMOVAL OF EXISTING BUILDING, CONCRETE WALL, PAVING REMOVAL, SLABS, UNSATISFACTORY BASE MATERIAL, FENCING, RAILINGS, STEPS, LIGHTS AND OTHER MISCELLANEOUS SITE ITEMS INCLUDE SATISFACTORY OFF-SITE DISPOSAL.
 - MATERIALS EXCAVATED FOR THE BUILDING UNDERGROUND GARAGE LEVELS AND FOUNDATION SHALL BE DISPOSED OF OFF-SITE PER LOCAL, STATE AND FEDERAL REGULATIONS. NO STOCKPILING TO BE PLACED OR HEAVY MACHINERY TO BE USED WITHIN THE SPOT POND BROOK CULVERT EASEMENT.
 - DAMAGED ITEMS SCHEDULED TO REMAIN SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL LEAVE WORK SITE FREE OF DEBRIS AT THE END OF EACH DAY'S OPERATIONS.

LEGEND

- PROPERTY LINE
- EASEMENT LINE
- CONSTRUCTION FENCE
- SF SILT FENCE
- TEMPORARY INLET PROTECTION
- ▨ CONSTRUCTION ENTRANCE
- ABAN ABANDON
- BIT CONC BITUMINOUS CONCRETE
- CB CATCH BASIN
- CONC CONCRETE
- EXIST EXISTING
- RET WALL RETAINING WALL
- R&D REMOVE AND DISPOSE
- R&R REMOVE AND RELOCATE
- R&S REMOVE AND STACK

10/19/2020, L119251CURRENTCUTSHEETS19251 - SITE PREPARATION PLAN.dwg
George Mihov



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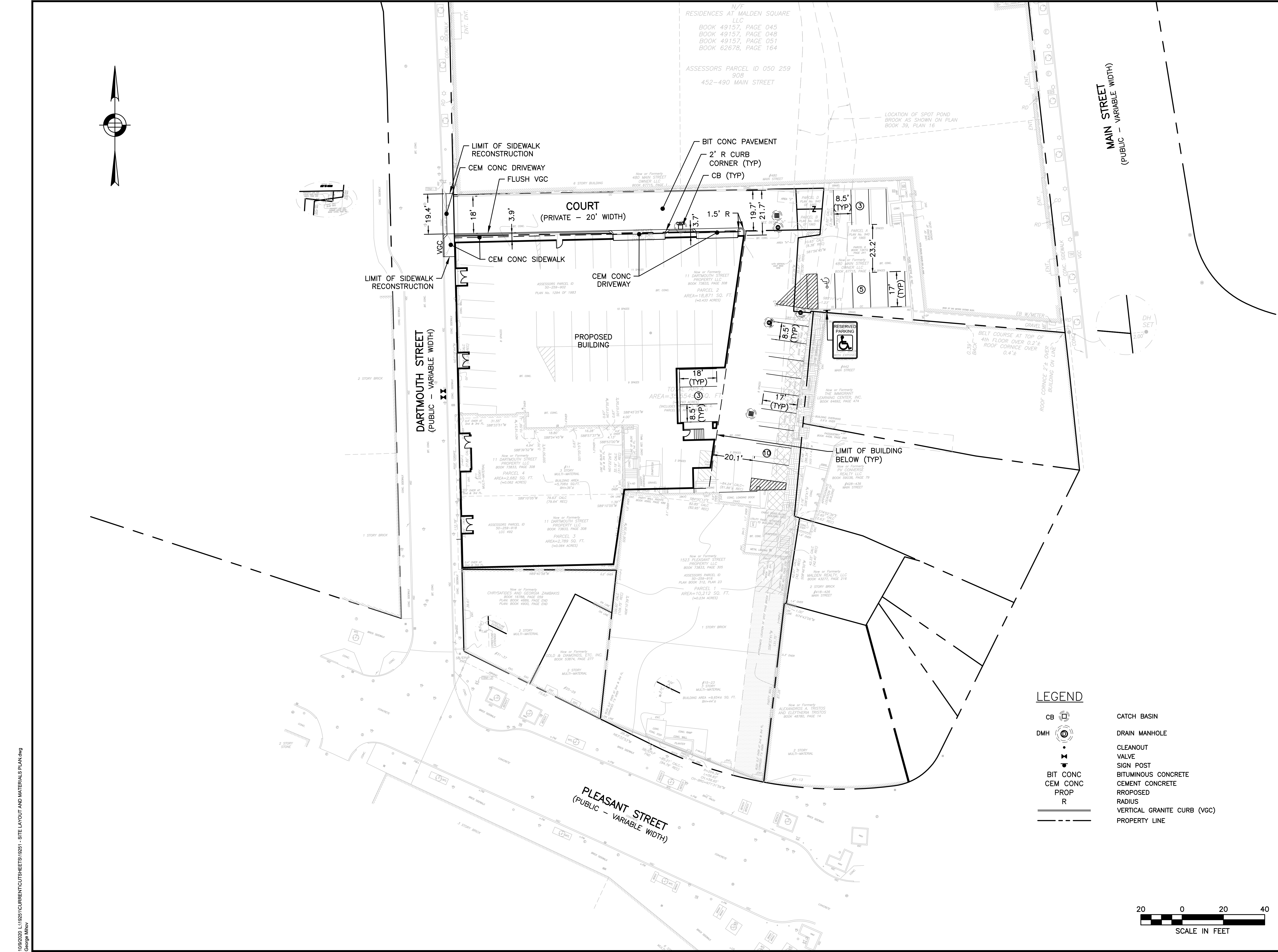
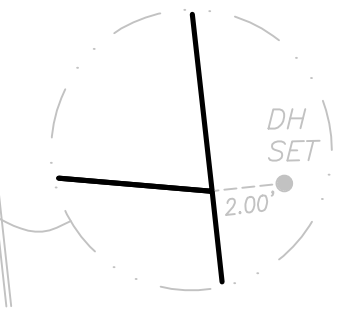
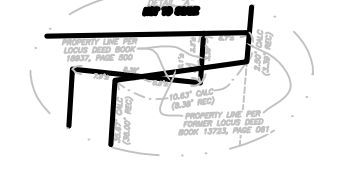
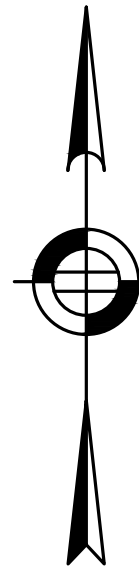
REVISIONS:

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SPECIAL PERMIT SET

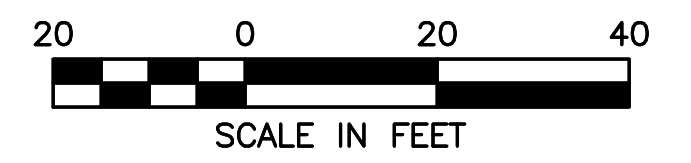
SITE PREPARATION PLAN

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DRAWN BY:	GNM
CHECKED BY:	RL



LEGEND

- CB CATCH BASIN
- DMH DRAIN MANHOLE
- CLEANOUT VALVE
- SIGN POST
- BIT CONC
BITUMINOUS CONCRETE
- CEM CONC
CEMENT CONCRETE
- PROPOSED
- RADIUS
- VERTICAL GRANITE CURB (VGC)
- PROPERTY LINE



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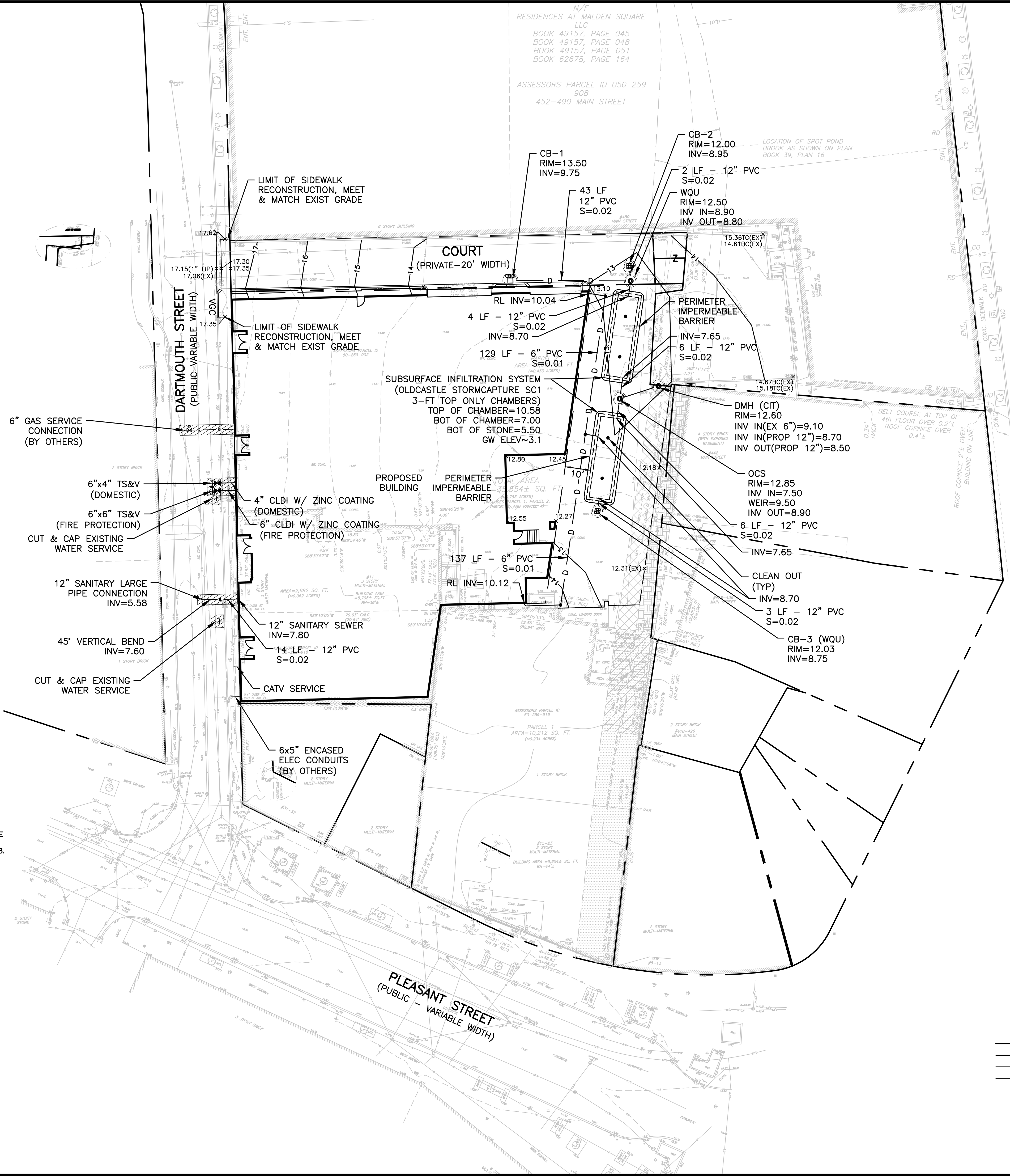
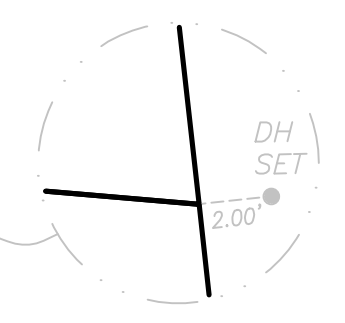
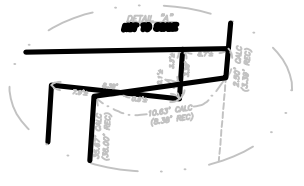
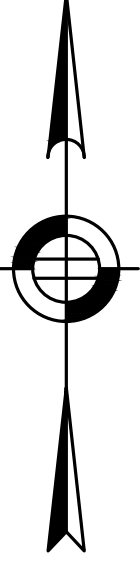
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SITE LAYOUT AND MATERIALS PLAN

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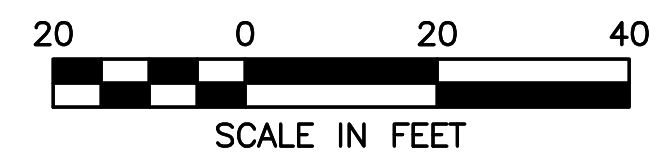
SHEET 3 OF 8



- GENERAL NOTES**
- EXISTING CONDITIONS INFORMATION SHOWN IS BASED ON A PLAN ENTITLED "EXISTING CONDITIONS PLAN", PREPARED BY FELDMAN LAND SURVEYORS, AND DATED MARCH 25, 2020.
 - THE ACCURACY AND COMPLETENESS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION BEGINS THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT (888)344-7233. ELEVATIONS SHOWN REFER TO NORTH AMERICAN VERTICAL DATUM 1988.
 - THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENGINEER.
 - ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, (SEE CHAPTER 370, ACTS OF 1963, MASSACHUSETTS) PRIOR TO DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION, OR REPAVING.
 - NO EXISTING PUBLIC UTILITY STRUCTURES SHALL BE ABANDONED AND/OR DISMANTLED WITHOUT AUTHORIZATION FROM THE ENGINEER. CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED OR REMOVED & DISPOSED.
 - THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AT HIS OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.
 - MALDEN ENGINEERING DEPARTMENT (781-397-400) MUST BE NOTIFIED 48 HOURS IN ADVANCE PRIOR TO THE INSTALLATION OF WATER AND FIRE SERVICES AND, IF NEEDED, SHUTTING DOWN OF THE MAIN.
 - IF WATER USE FROM HYDRANT IS PROPOSED THE CONTRACTOR MUST APPLY FOR A HYDRANT METER PERMIT FROM THE CITY AND PAY ALL COSTS INCLUDING DEPOSIT, RENTAL AND WATER USAGE FEES.
 - ALL CONSTRUCTION WORK PERFORMED ON THE CITY OF MALDEN UTILITIES MUST BE INSPECTED BY A MALDEN CONSTRUCTION INSPECTOR. AS-BUILT PLANS SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOLLOWING THE COMPLETION OF THE INSTALLATIONS. THE CONTRACTOR SHALL PREPARE AS-BUILT PLAN (ELECTRONICALLY) OF THE UTILITY SYSTEM WORK FOR SUBMITTAL TO THE ENGINEERING DEPARTMENT, AND IS INCIDENTAL TO THE WORK.
 - ANY CONSTRUCTION DEWATERING REQUIRES A DRAINAGE DISCHARGE PERMIT FROM THE CITY OF MALDEN AND A NPDES PERMIT FROM THE EPA.
 - CONTRACTOR MUST PAY ALL FEES AND PERMITS.
 - SANITARY SEWER AND STORM DRAINS MUST BE A MINIMUM OF 10 FEET APART FROM ANY NEW OR EXISTING WATER SERVICES.
 - PIPE MATERIALS (UNLESS OTHERWISE NOTED)
STORM DRAIN: SDR-35 PVC
SANITARY SEWER: SDR-35 PVC
WATER PIPE: CLDI CLASS 56 (ZINC COATED)

LEGEND

CI	CAST IRON PIPE
CO	CLEANOUT
FP	FIRE PROTECTION VALVE
LF	LINEAR FEET
RCP	INVERT ELEVATION
RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
CLDI	CEMENT-LINED DUCTILE IRON PIPE
OCS	OUTLET CONTROL STRUCTURE
VGC	VERTICAL GRANITE CURBING
TS&V	TAPPING SLEEVE & VALVE
R&D	REMOVE & DISPOSE
R&R	REMOVE & RESET
SMH	SANITARY MANHOLE
DMH	DRAIN MANHOLE
CB	CATCH BASIN
---	PROPERTY LINE
S	SANITARY SEWER
W	WATER LINE
D	STORM DRAIN



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REVISIONS:

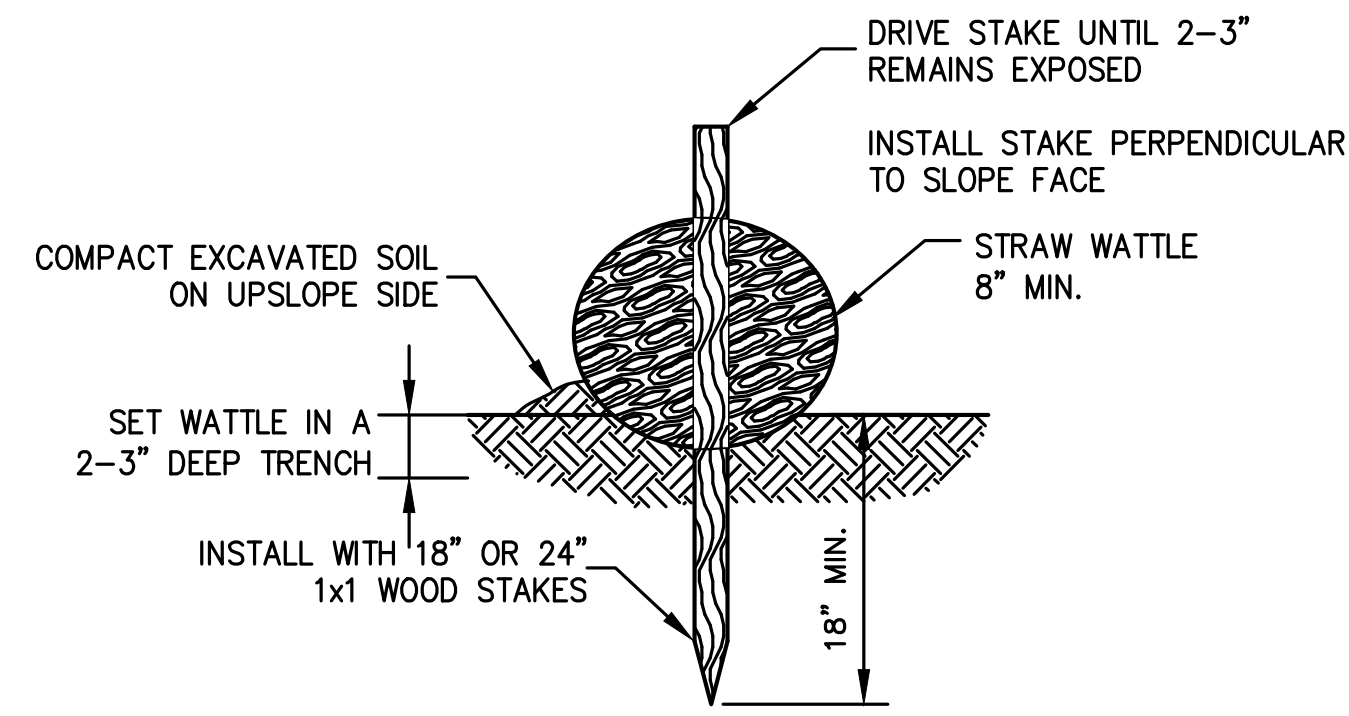
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SPECIAL PERMIT SET

DRAINAGE AND UTILITY PLAN

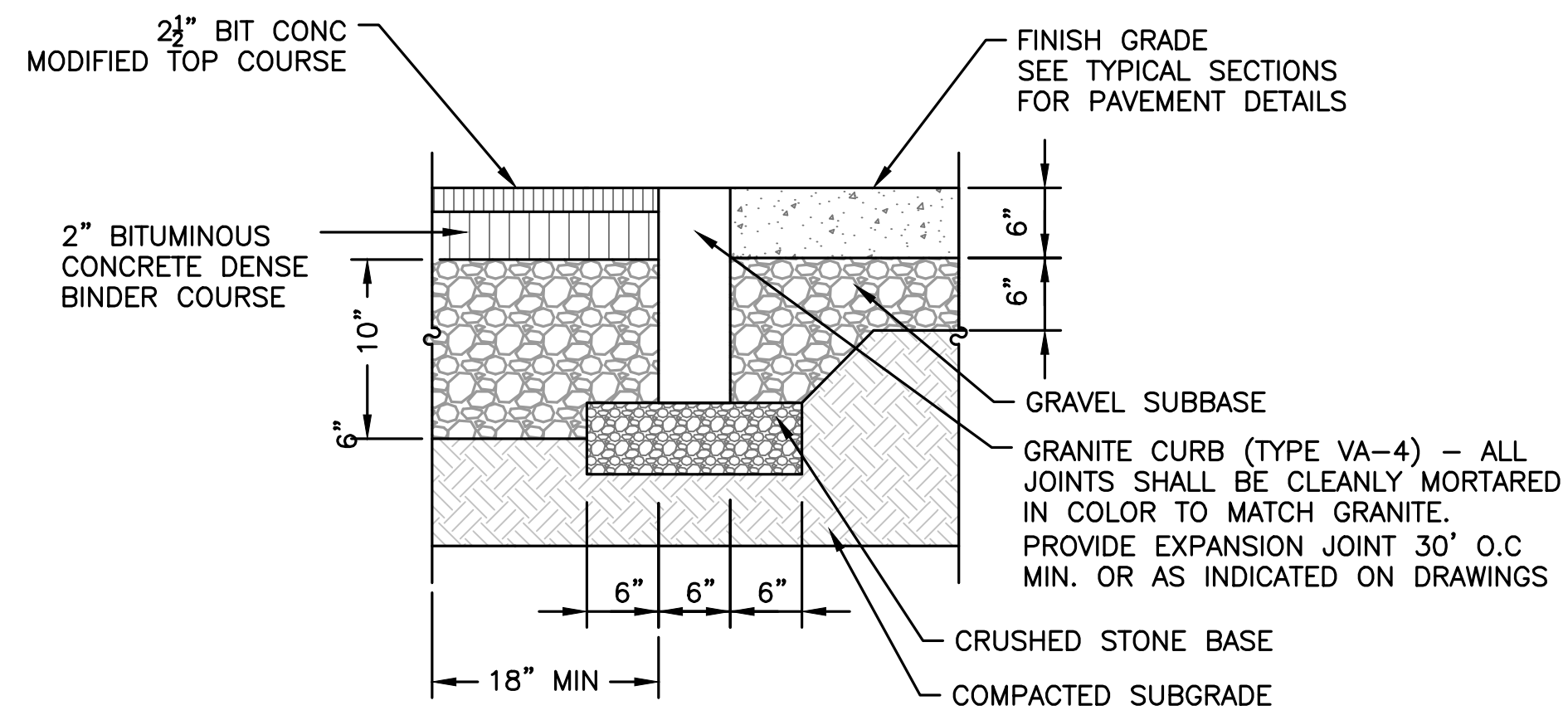
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SHEET 4 OF 8

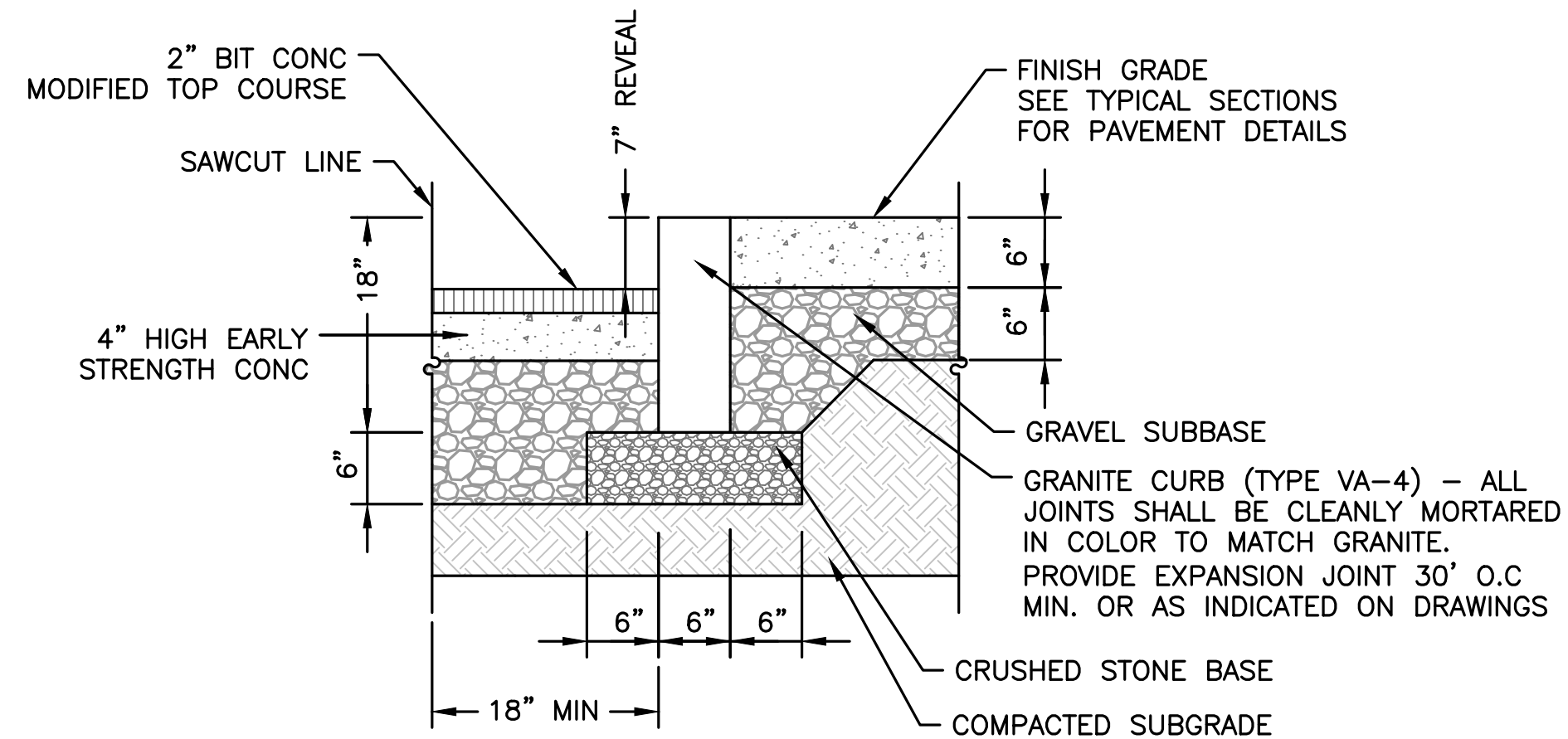


- NOTES:
- BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3"(5-7.5 CM) DEEP X 9"(22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
 - PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
 - SECURE THE WATTLE WITH 18-24" (45.7-61 CM) STAKES EVERY 3-4' (0.9 - 1.2 M) AND WITH A STAKE ON EACH END. (STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.

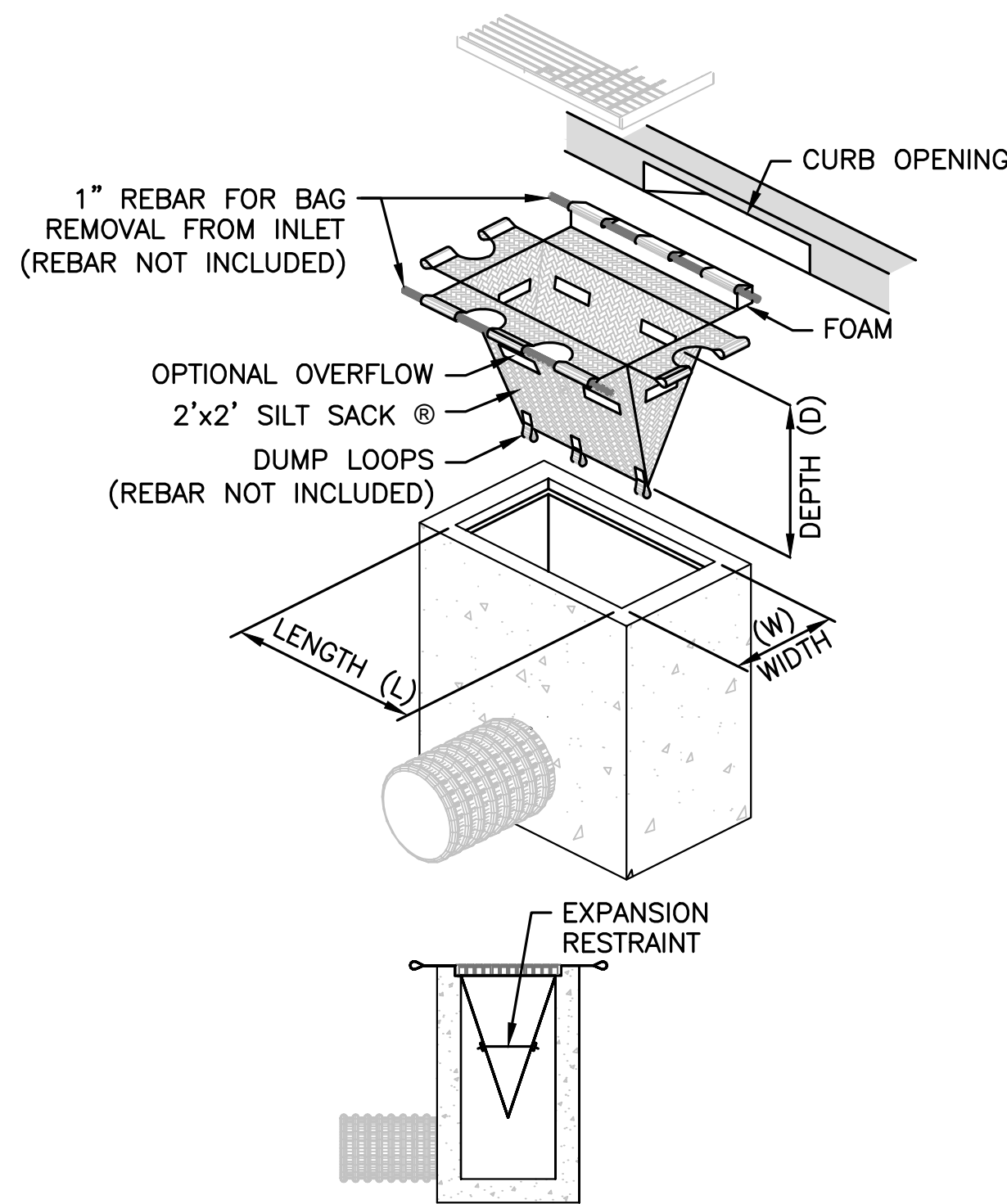
STRAW WATTLE DETAIL
NOT TO SCALE



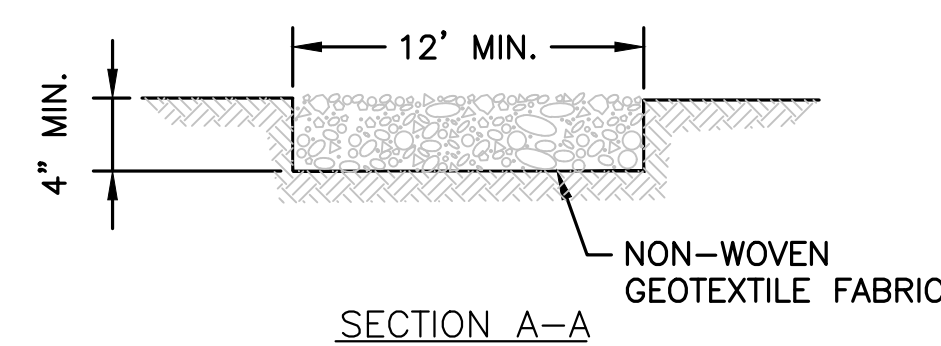
VERTICAL GRANITE CURB FLUSH WITH SIDEWALK
NOT TO SCALE



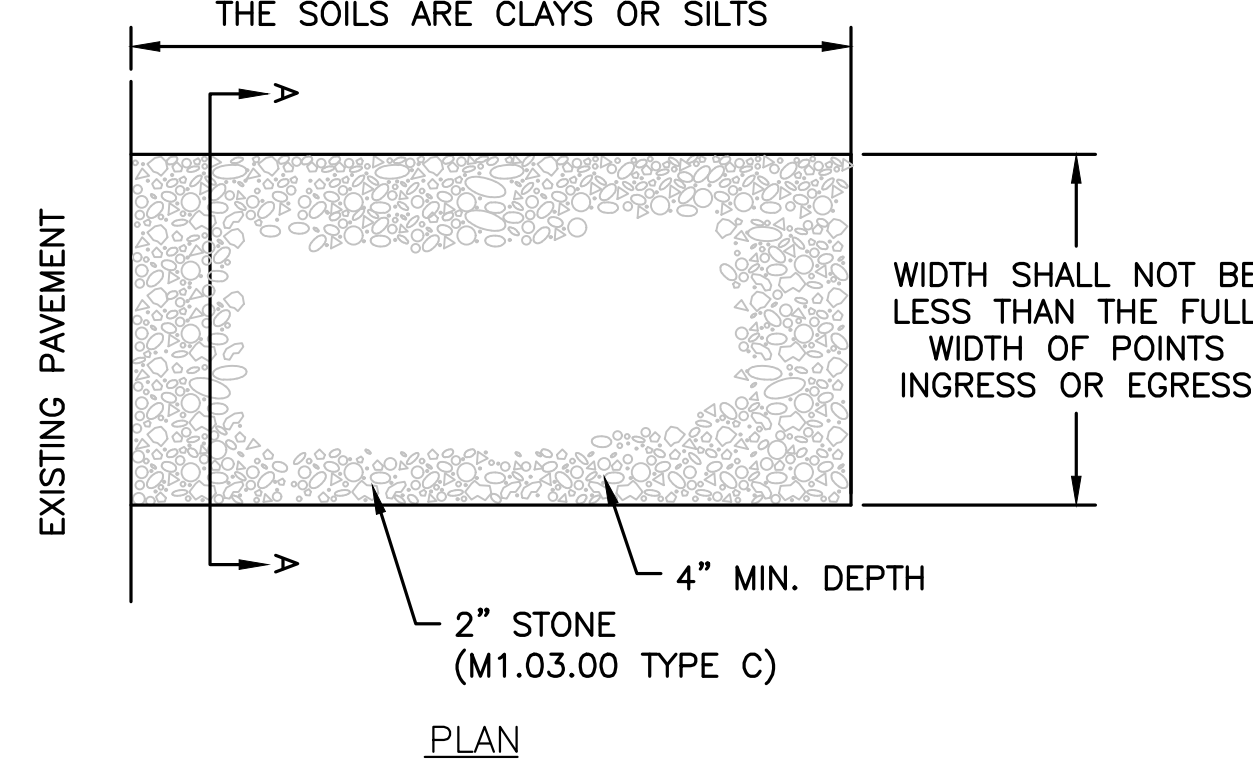
VERTICAL GRANITE CURB AT STREET
NOT TO SCALE



TEMPORARY INLET PROTECTION
NOT TO SCALE



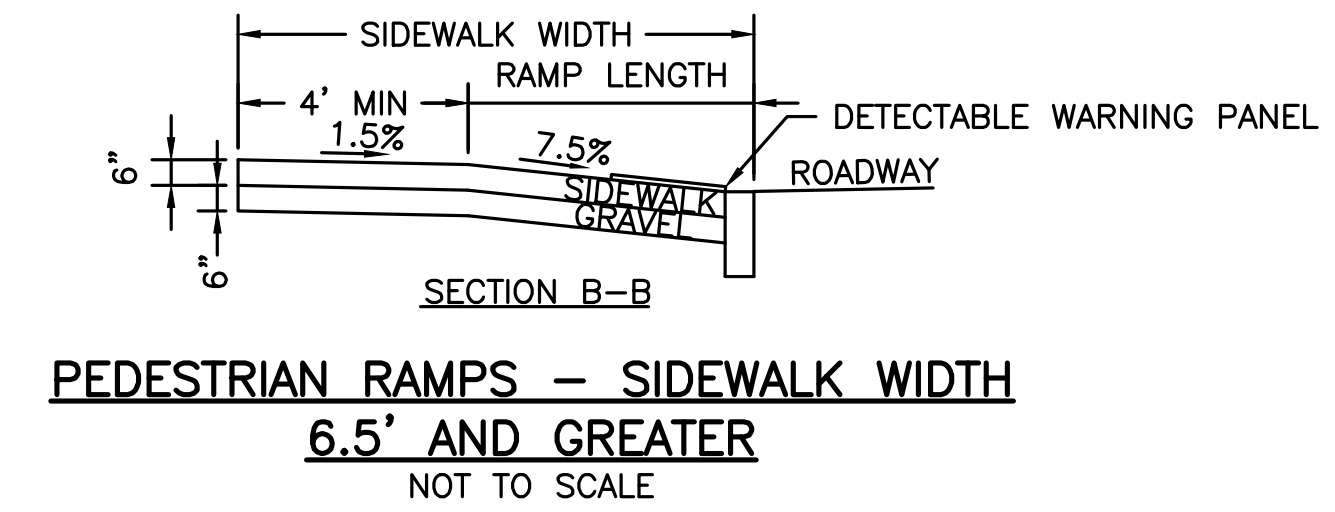
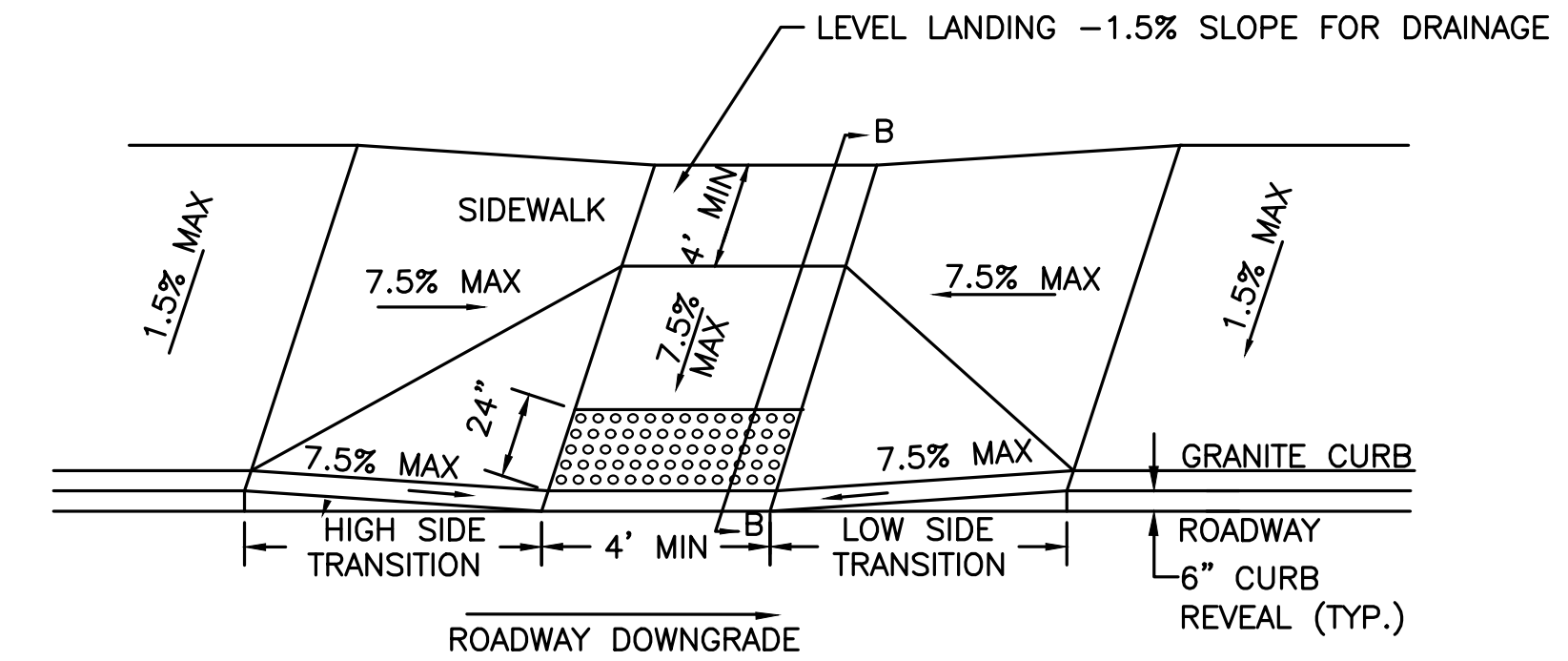
LENGTH SHALL BE 50' MINIMUM WHERE THE SOILS ARE SANDS OR GRAVEL AND 100' MINIMUM WHERE THE SOILS ARE CLAYS OR SILTS



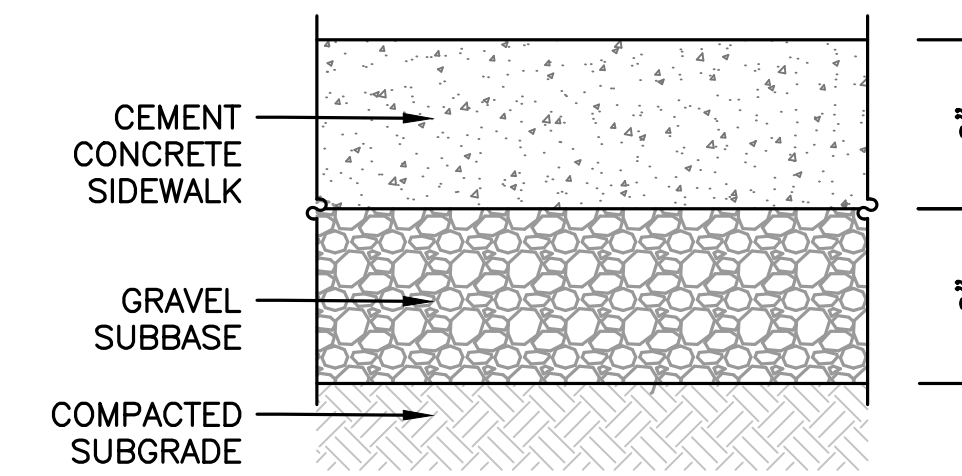
NOTES:

- INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS NOTED ABOVE.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENTS ONTO PUBLIC RIGHT-OF-WAYS. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, OR ADDITIONAL LENGTH, AS CONDITIONS DEMAND, AND REPAIR, AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.

ROCK CONSTRUCTION ENTRANCE
NOT TO SCALE



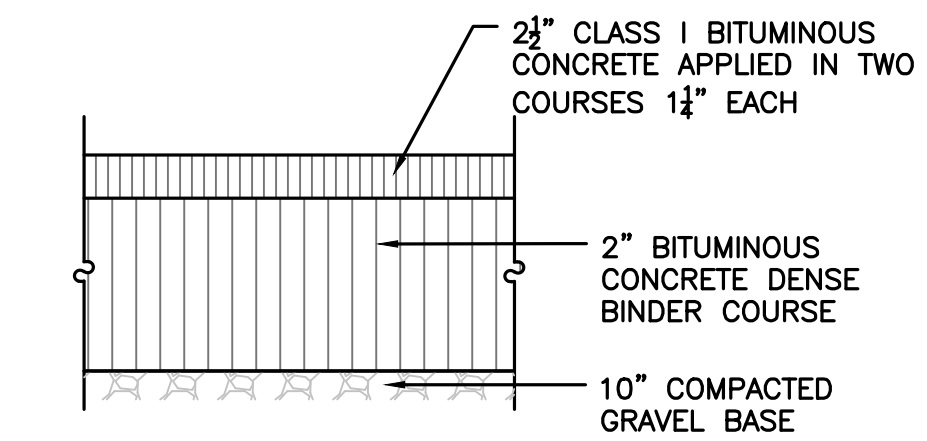
PEDESTRIAN RAMPS - SIDEWALK WIDTH 6.5' AND GREATER
NOT TO SCALE



NOTES:

- CONCRETE SIDEWALK DETAIL AND NOTES APPLY TO SIDEWALK WITHIN THE RIGHT-OF-WAY.
- CONCRETE SHALL BE 4,000 PSI.
- SIDEWALKS ARE TO BE RAKED FINISH WITH 3/8 INCH TROWEL JOINTS.

CEM CONC SIDEWALK SECTION DETAIL
NOT TO SCALE



TRENCH PATCH DETAIL
NOT TO SCALE



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SPECIAL PERMIT SET

DETAIL SHEET 1

DATE: Oct-20

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CHECKED BY: RL

SHEET 5 OF 8

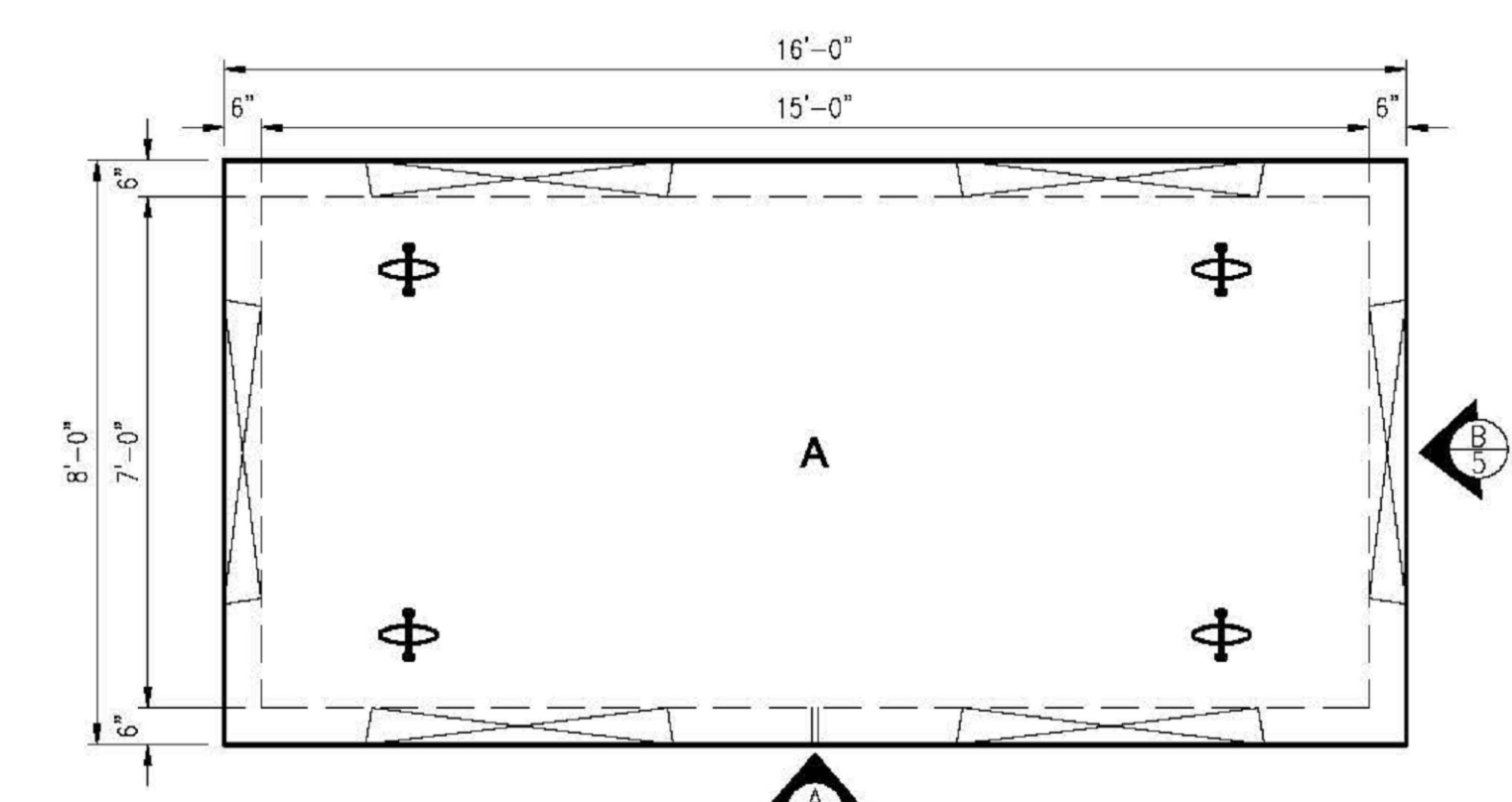
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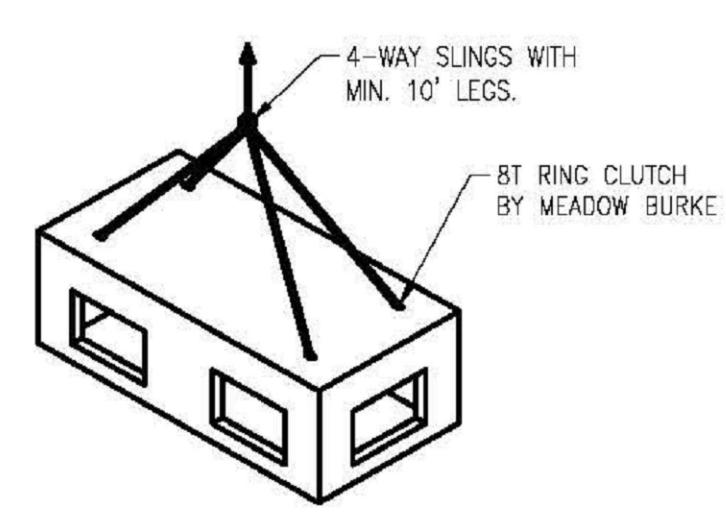
SPECIAL PERMIT SET

DETAIL SHEET 2

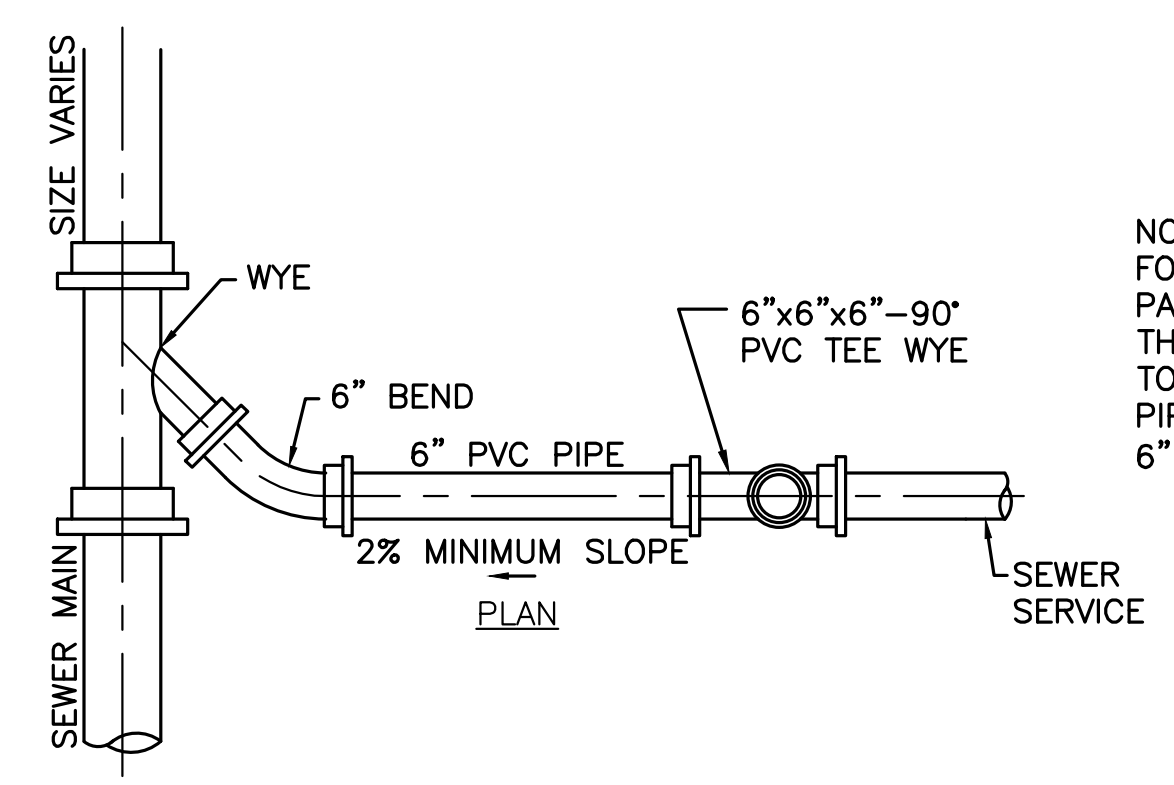
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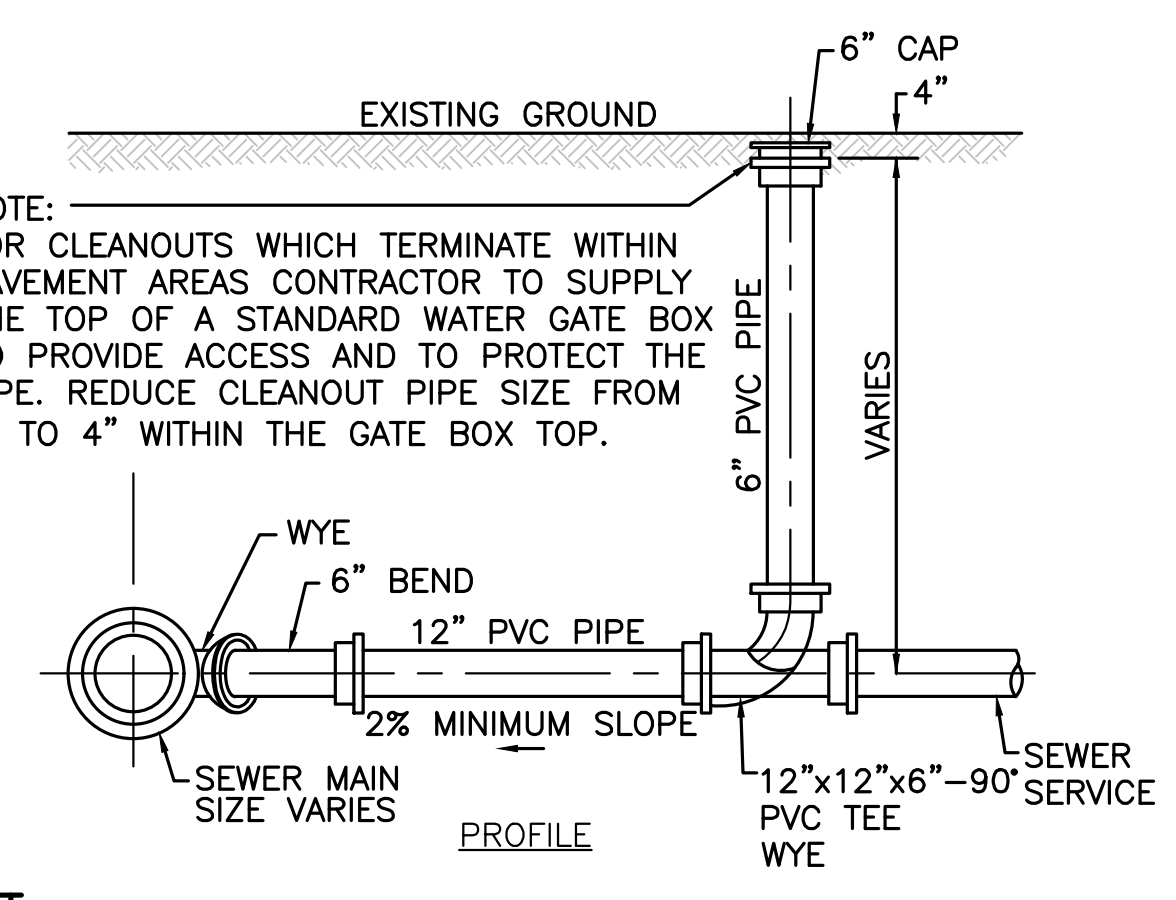
PLAN VIEW
 SCALE: 1/4" = 1'-0"



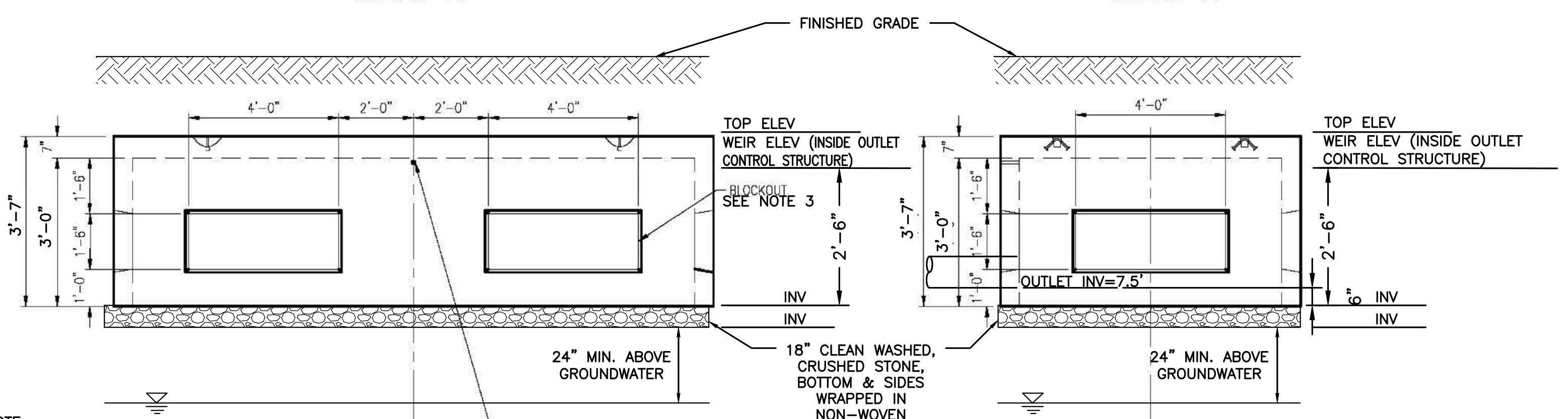
LIFTING DETAIL
 SCALE: 1/4" = 1'-0"



CLEANOUT
 NOT TO SCALE



NOTE:
 FOR CLEANOUTS WHICH TERMINATE WITHIN PAVEMENT AREAS CONTRACTOR TO SUPPLY THE TOP OF A STANDARD WATER GATE BOX TO PROVIDE ACCESS AND TO PROTECT THE PIPE. REDUCE CLEANOUT PIPE SIZE FROM 6" TO 4" WITHIN THE GATE BOX TOP.

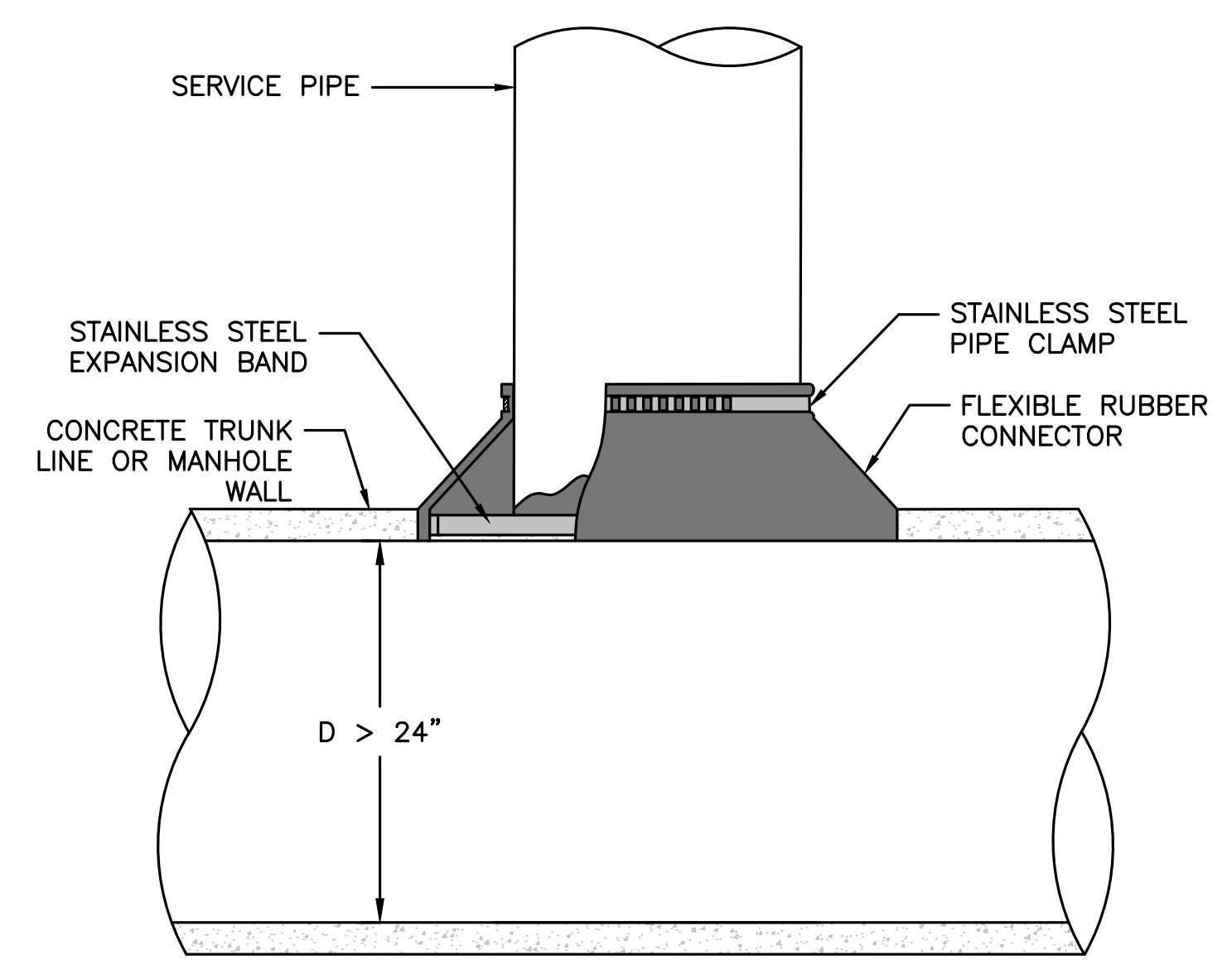


VIEW A
 SCALE: 1/4" = 1'-0"

VIEW B
 SCALE: 1/4" = 1'-0"

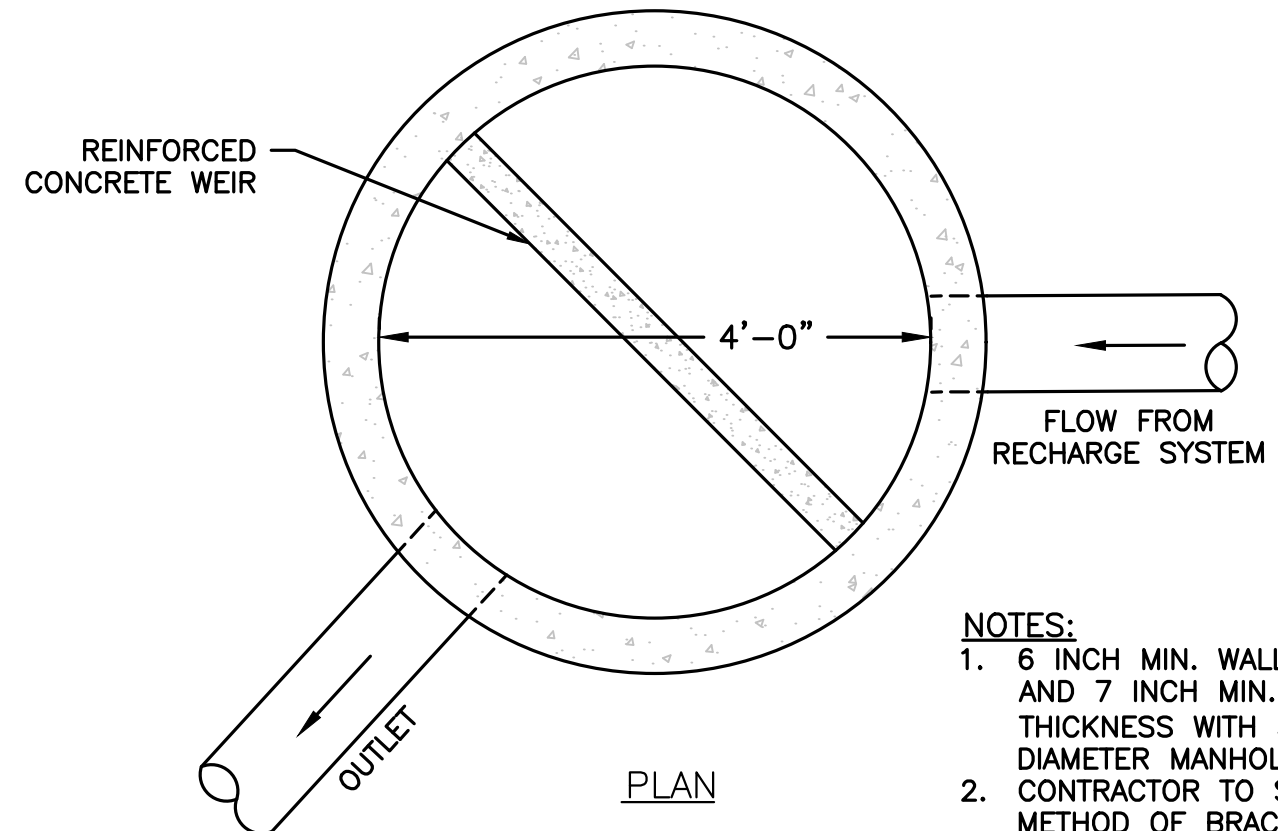
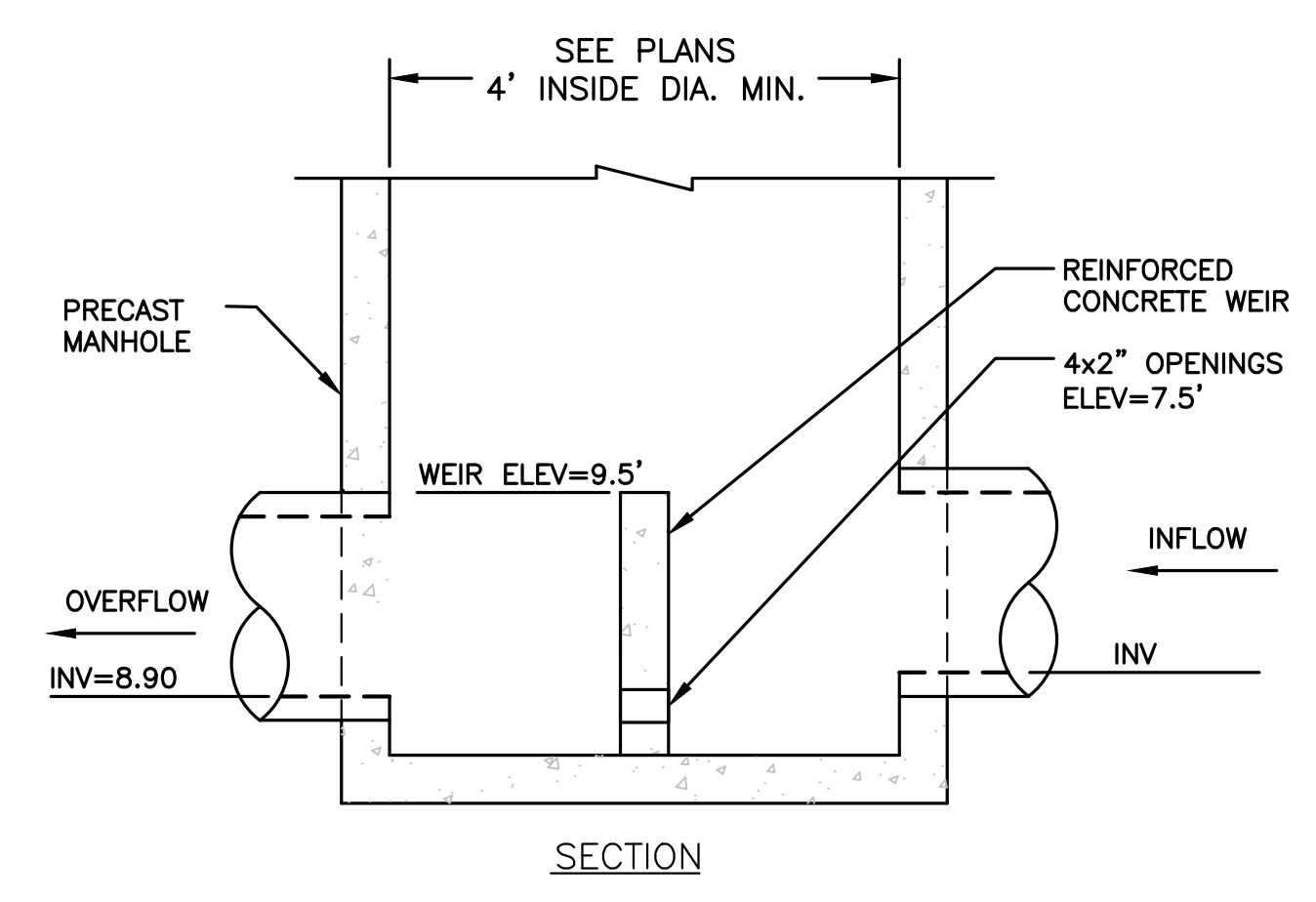
- NOTE:
1. DETAIL FROM OLDCASTLE PRECAST STORM CAPTURE.
 2. STONE SHALL NOT BE USED AROUND THE SIDES OF THE PRECAST CONCRETE MODULE.
 3. THE PRECAST MODULES SHALL BE OPEN ON THE BOTTOM TO ALLOW FOR INFILTRATION. THE SIDES SHALL BE SOLID CONCRETE WITH THE EXCEPTION OF THE OPENINGS BETWEEN THE TWO MODULES TO ALLOW FOR THE EVEN DISTRIBUTION AND STORAGE OF STORMWATER ACROSS THE SYSTEM.

SUBSURFACE INFILTRATION SYSTEM
OLDCASTLE STORMCAPTURE SC1 3-FT TOP ONLY CHAMBERS
 NOT TO SCALE



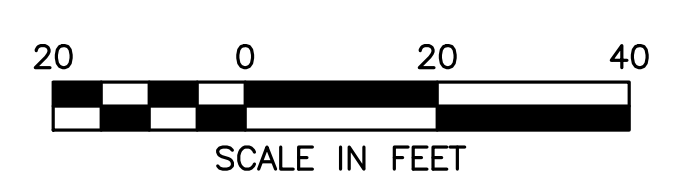
- NOTES:
1. OPENING IN CONCRETE WALL SHALL BE CORED USING HIGH SPEED DIAMOND DRILL.
 2. ALL METAL FIXTURES SHALL BE OF STAINLESS STEEL.
 3. SERVICE LINE SHALL BE FLUSH WITH THE INSIDE OF THE CONCRETE PIPE OR WALL.
 4. IF TRUNK LINE DIAMETER IS LESS THAN 24" THEN A SADDLE TYPE CONNECTION WILL BE USED.

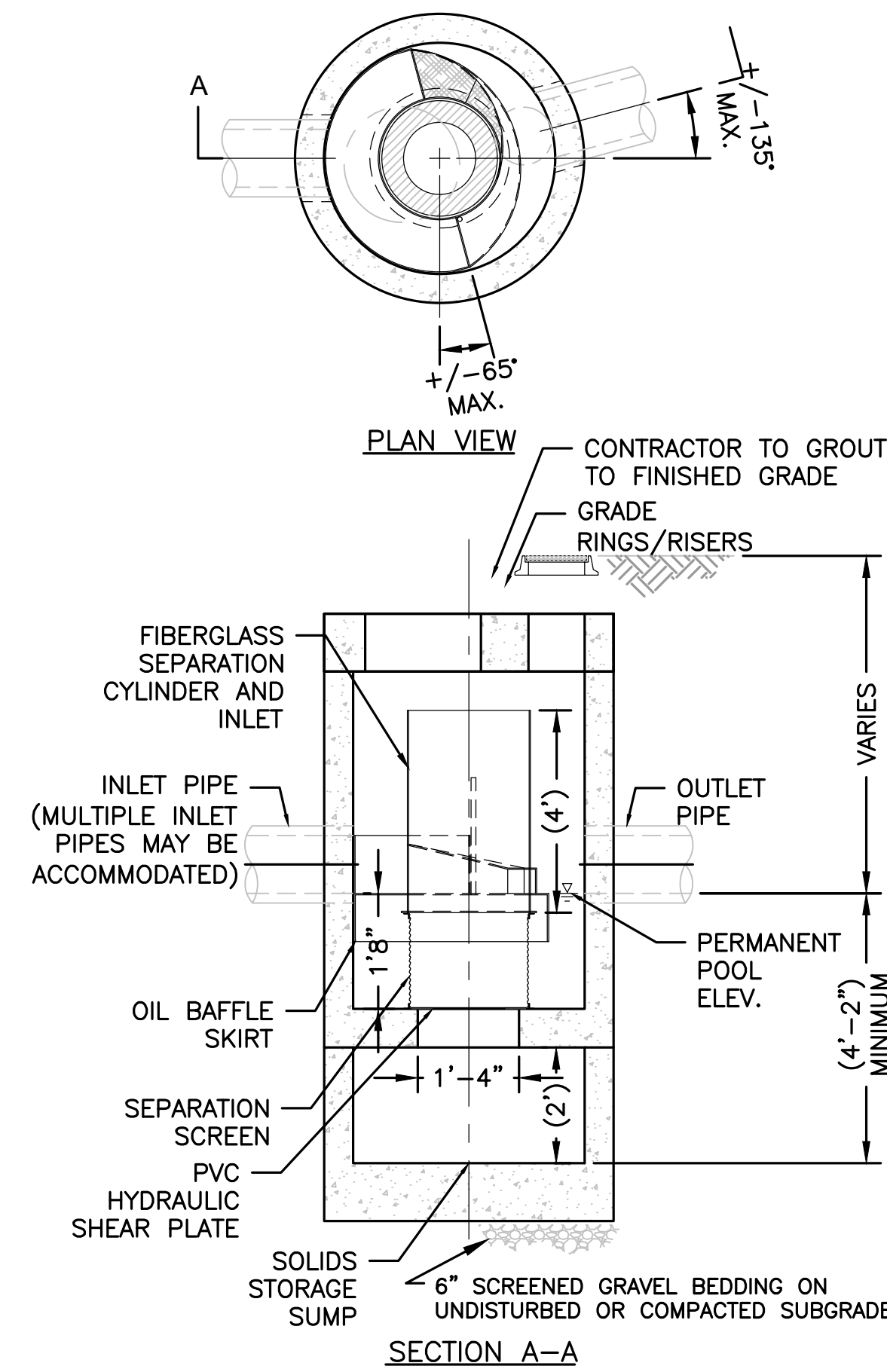
TYPICAL FIELD CONNECTION TO LARGE CONCRETE PIPE OR CONCRETE MANHOLE
 NOT TO SCALE



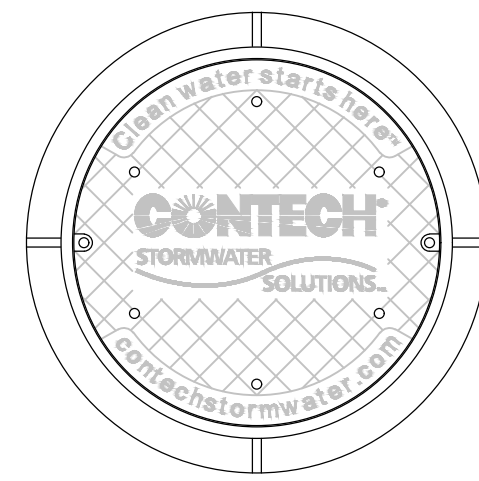
- NOTES:
1. 6 INCH MIN. WALL THICKNESS AND 7 INCH MIN. BASE THICKNESS WITH 5'-0" DIAMETER MANHOLES.
 2. CONTRACTOR TO SUBMIT METHOD OF BRACING WEIR.

OUTLET CONTROL STRUCTURE
 NOT TO SCALE





WATER QUALITY UNIT - CDS1515-3-C
NOT TO SCALE

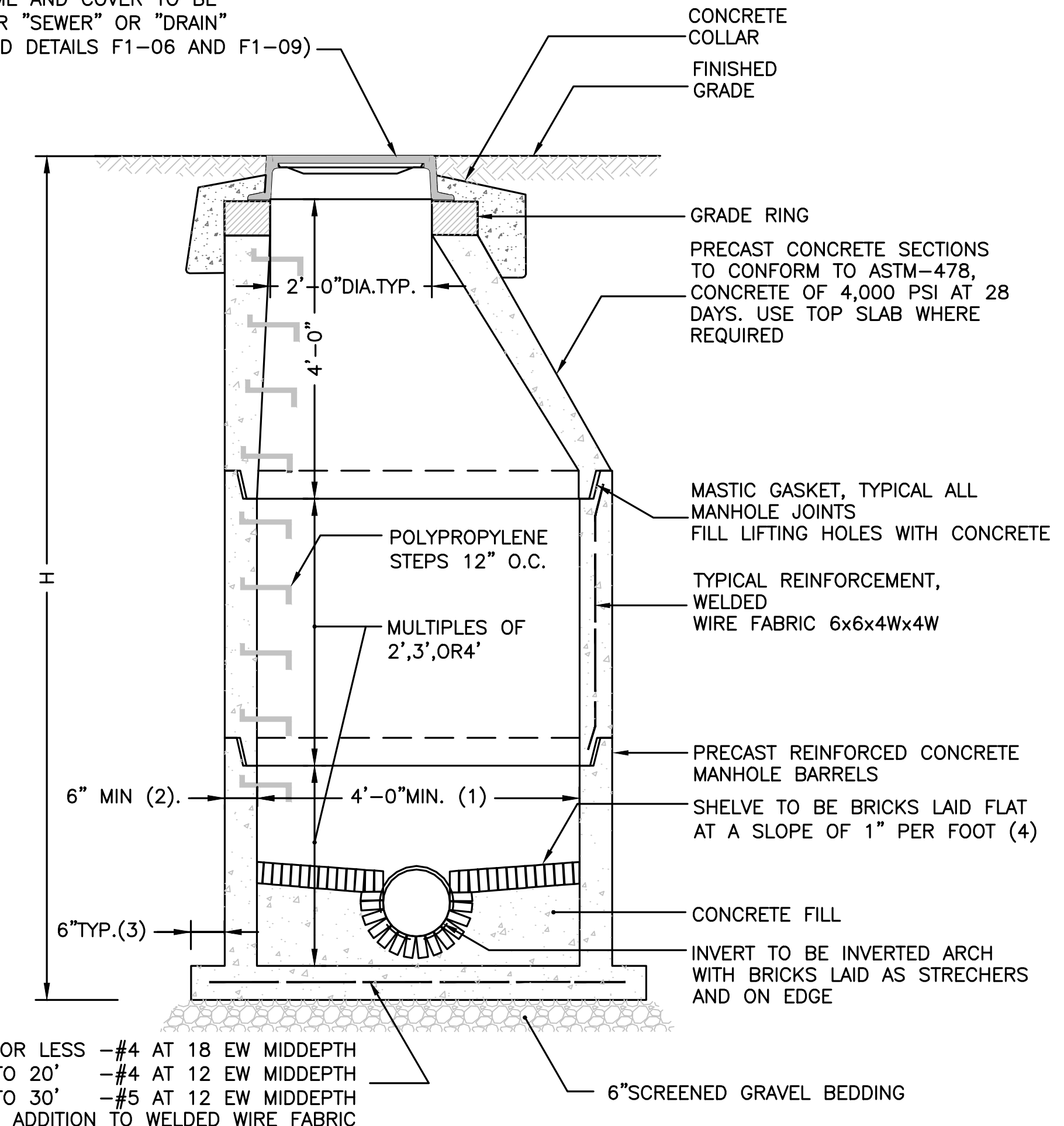


FRAME AND COVER

- GENERAL NOTES**
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH STORMWATER SOLUTIONS REPRESENTATIVE. www.contechstormwater.com
 4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 5. STRUCTURE AND CASTINGS SHALL MEET AASHTO HS20.
 6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

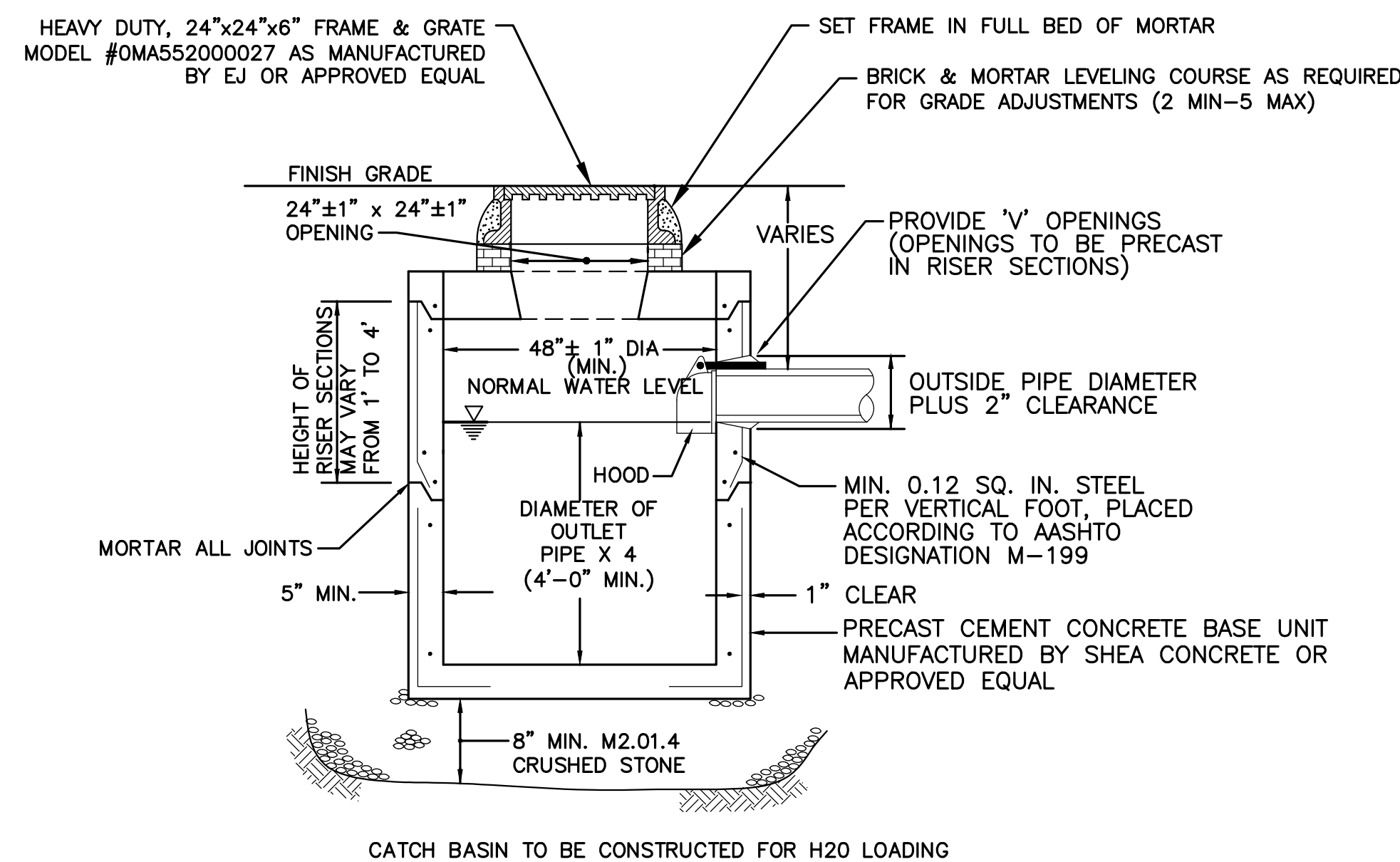
- INSTALLATION NOTES**
1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 3. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
 4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
 5. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

TYPE "A" FRAME AND COVER TO BE MARKED EITHER "SEWER" OR "DRAIN" (SEE BWS STD DETAILS F1-06 AND F1-09)

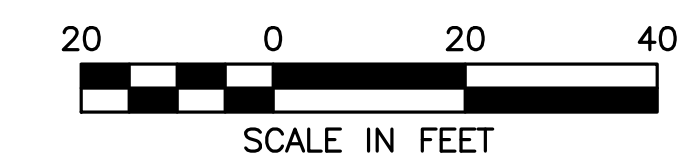


PRECAST CONCRETE MANHOLE
NOT TO SCALE

- NOTES:**
1. 5'-0" DIAMETER FOR ALL MANHOLE DEPTHS GREATER THAN 20 FEET OR WHEN ORDERED BY THE ENGINEER.
 2. 6 INCH MIN. WALL THICKNESS AND 7 INCH MIN. BASE THICKNESS WITH 5'-0" DIAMETER MANHOLES.
 3. 6 INCH LIP OPTIONAL UNLESS OTHERWISE NOTED. CONCRETE INVERT AND SHELF MAY BE SUBSTITUTED IN STORM DRAIN MANHOLES AS DIRECTED BY THE ENGINEER.



CATCH BASIN
NOT TO SCALE



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REVISIONS:

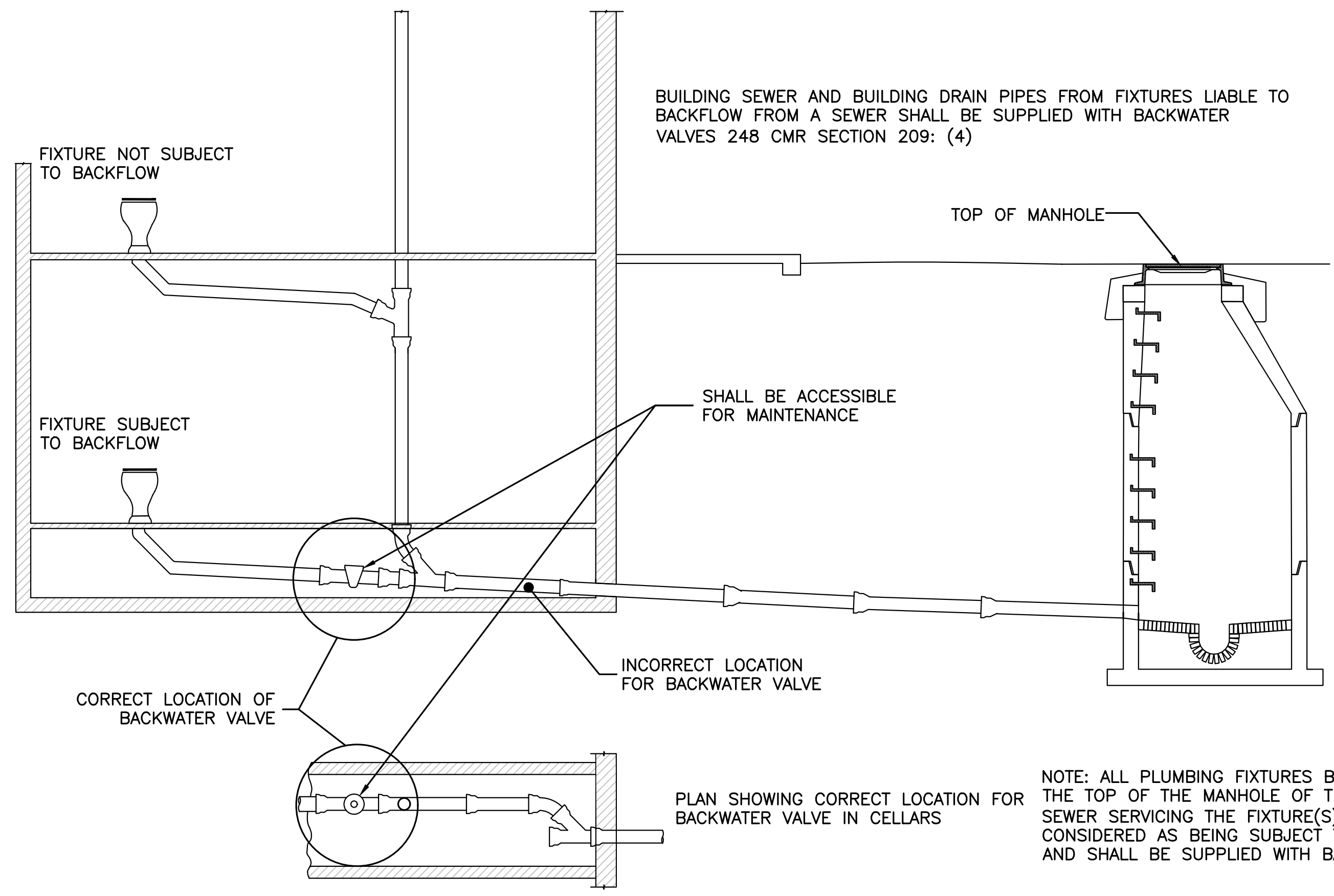
NO	BY	DATE	DESCRIPTION
1	GNM	4/01/2020	CONCEPTUAL DESIGN
2	GNM	5/27/2020	SPECIAL PERMIT - DRAFT

SPECIAL PERMIT SET

DETAIL SHEET 3

DATE:	Oct-20
PROJECT NUMBER:	2019251
DESIGNED BY:	GNM
DRAWN BY:	GNM
CHECKED BY:	RL

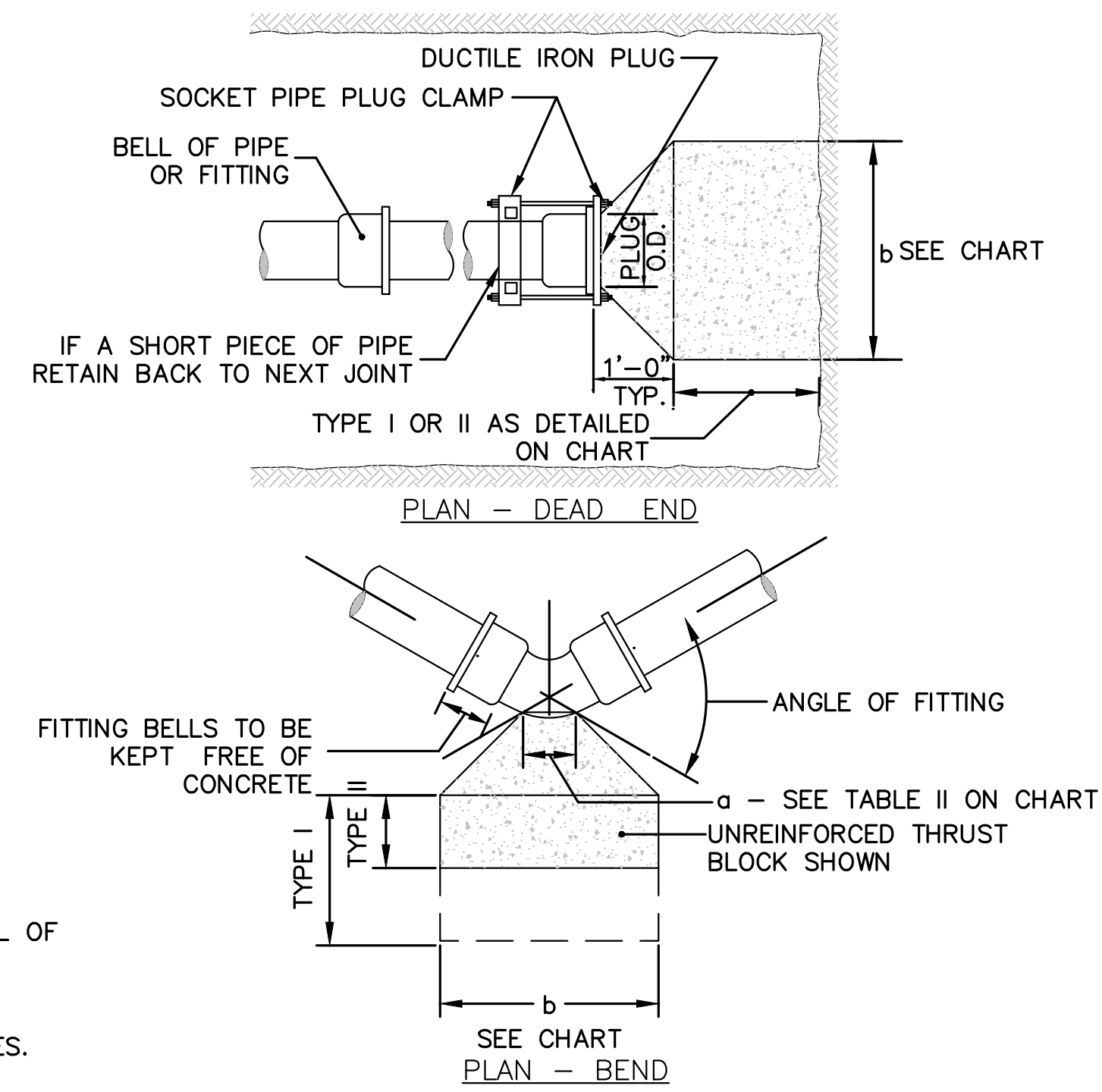
SHEET 7 OF 8



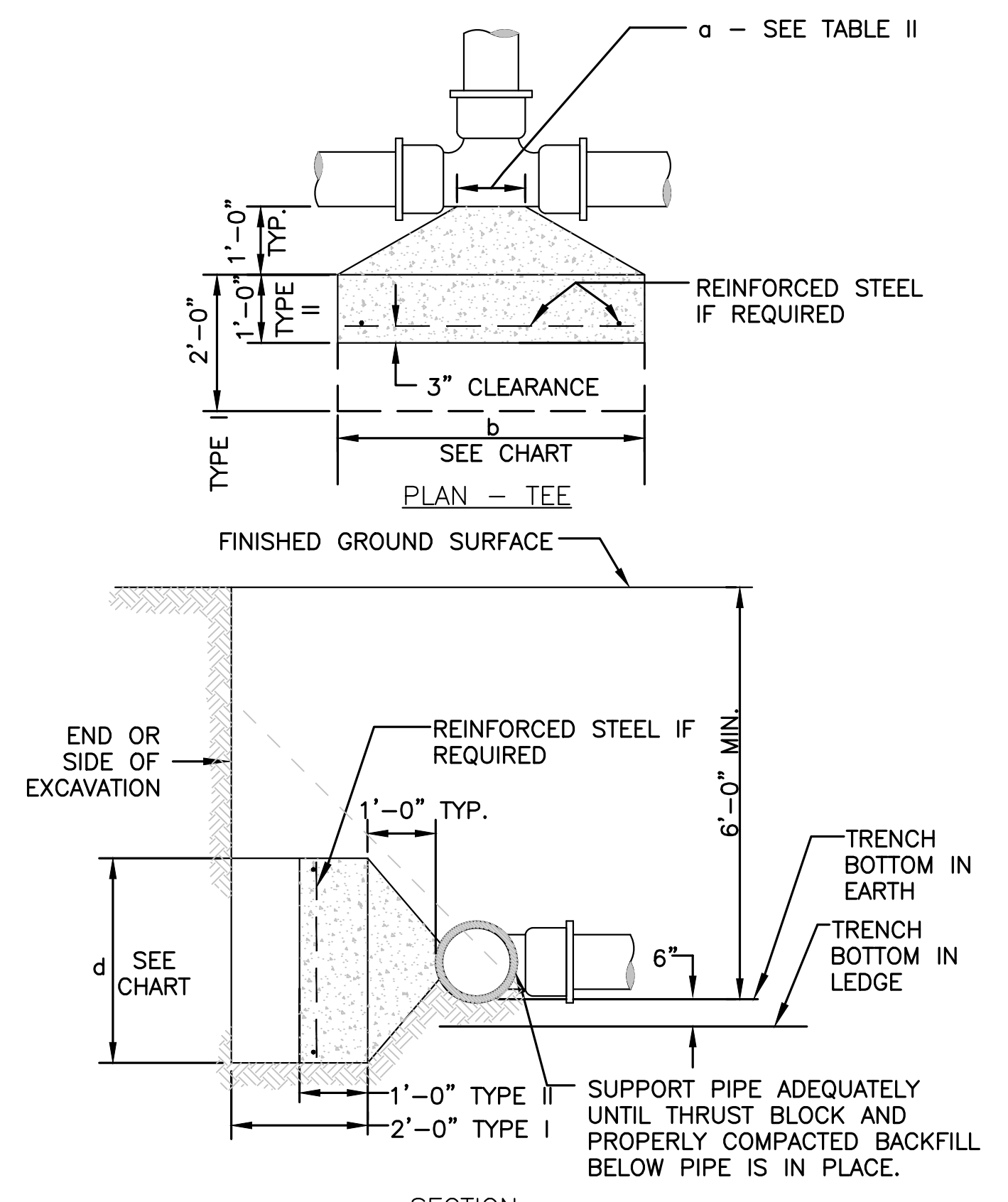
LOCATION OF BACKWATER VALVES IN CELLARS (B-14)
NOT TO SCALE

BUILDING SEWER AND BUILDING DRAIN PIPES FROM FIXTURES LIABLE TO BACKFLOW FROM A SEWER SHALL BE SUPPLIED WITH BACKWATER VALVES 248 CMR SECTION 209: (4)

NOTE: ALL PLUMBING FIXTURES BELOW THE LEVEL OF THE TOP OF THE MANHOLE OF THE SEWER SERVICING THE FIXTURE(S) SHALL BE CONSIDERED AS BEING SUBJECT TO BACKFLOW AND SHALL BE SUPPLIED WITH BACKWATER VALVES.



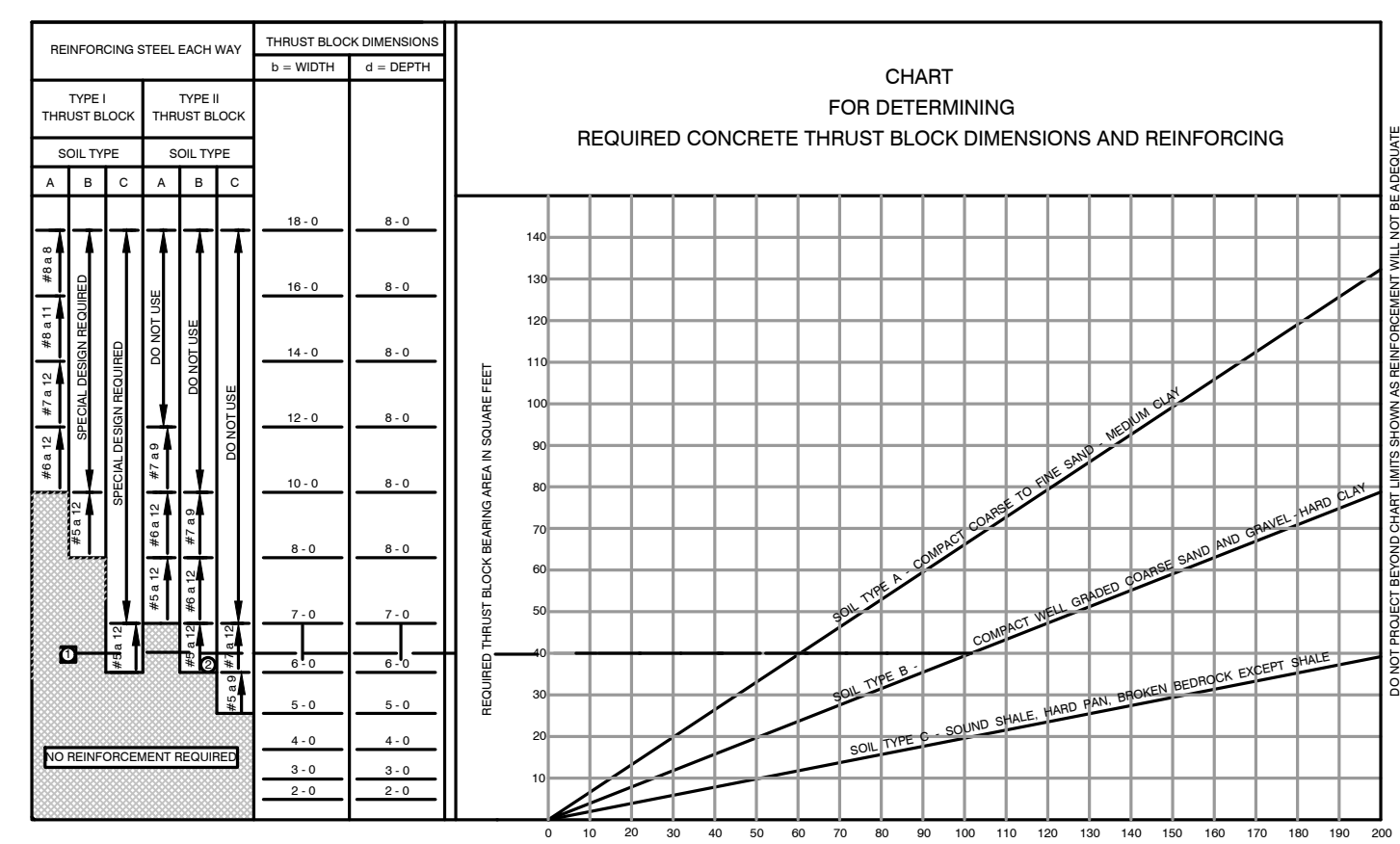
THRUST BLOCK (A-01a)
NOT TO SCALE



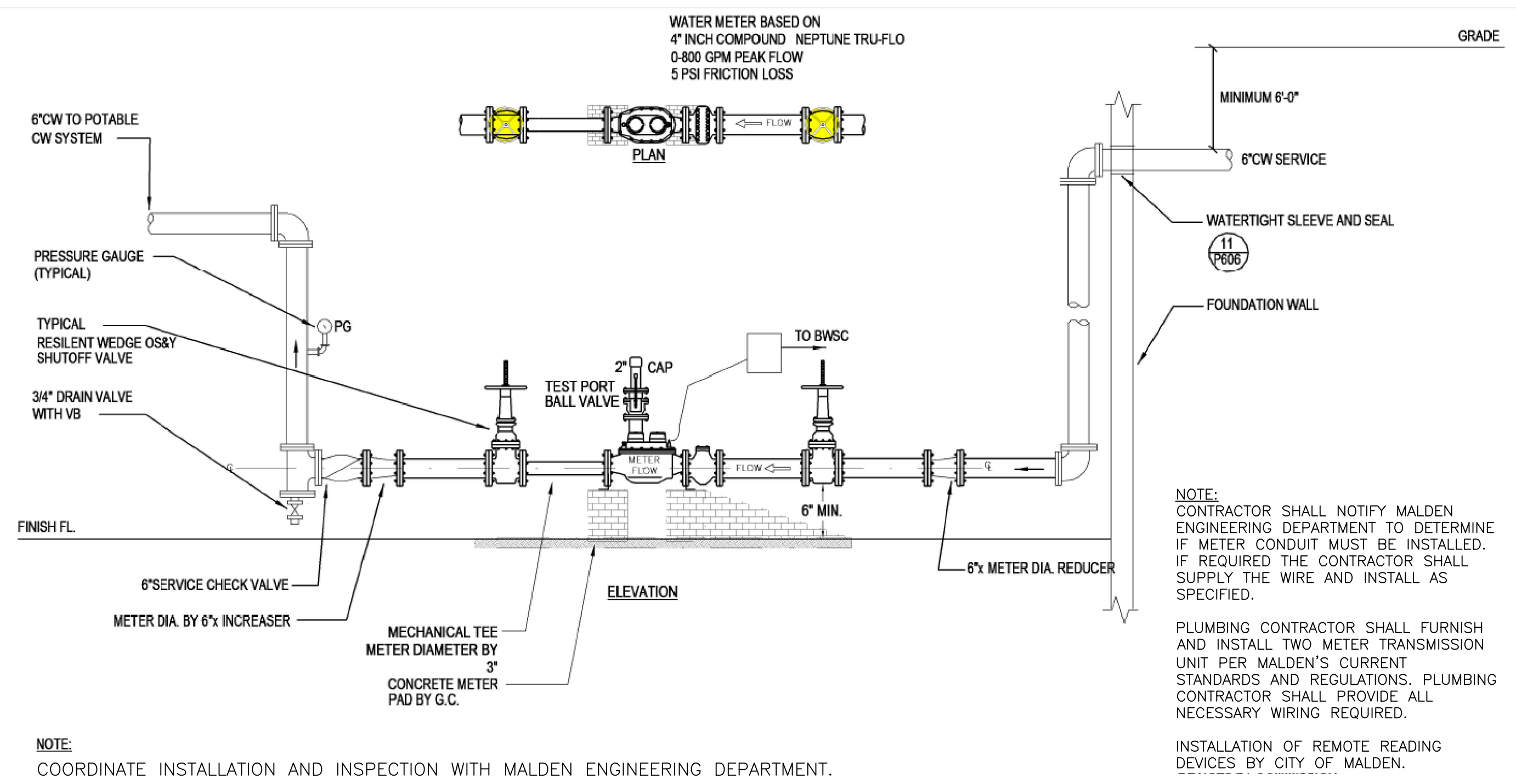
THRUST BLOCK (A-01b)
NOT TO SCALE

PIPE DIAMETER, INCHES	90° FITTING	OTHERS
4.5, 6, 8, 10, 12	1.5	1.0
14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100	2.0	1.5
108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150	2.5	2.0

PIPE DIAMETER, INCHES	8	10	12	14	16	18	20	24	30	36	42
SOCKET PIPES AND TEES	5.0	10	15.0	22.5	30.0	45.0	60.0	90.0	140.0	225.0	375.0
90° FITTING	7.5	15.0	22.5	33.75	45.0	67.5	90.0	135.0	210.0	315.0	525.0
OTHERS	11.25	22.5	33.75	50.625	67.5	101.25	135.0	202.5	303.75	455.625	759.375



THRUST BLOCK DIMENSIONS (A-01c)
NOT TO SCALE



NOTE: COORDINATE INSTALLATION AND INSPECTION WITH MALDEN ENGINEERING DEPARTMENT.

NOTE: DETAIL PROVIDED BY WSP. REFER TO SHEET P6.02. DETAIL PROVIDED PER BWS REFERENCE.
4" WATER METER
NOT TO SCALE

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MALDEN, MA, 02148

NO	BY	DATE	DESCRIPTION
1	GNM	4/01/2020	CONCEPTUAL DESIGN
2	GNM	5/27/2020	SPECIAL PERMIT - DRAFT

SPECIAL PERMIT SET

DETAIL SHEET 4

DATE:	Oct-20
PROJECT NUMBER:	2019251
DESIGNED BY:	GNM
DRAWN BY:	GNM
CHECKED BY:	RL

SHEET 8 OF 8

