

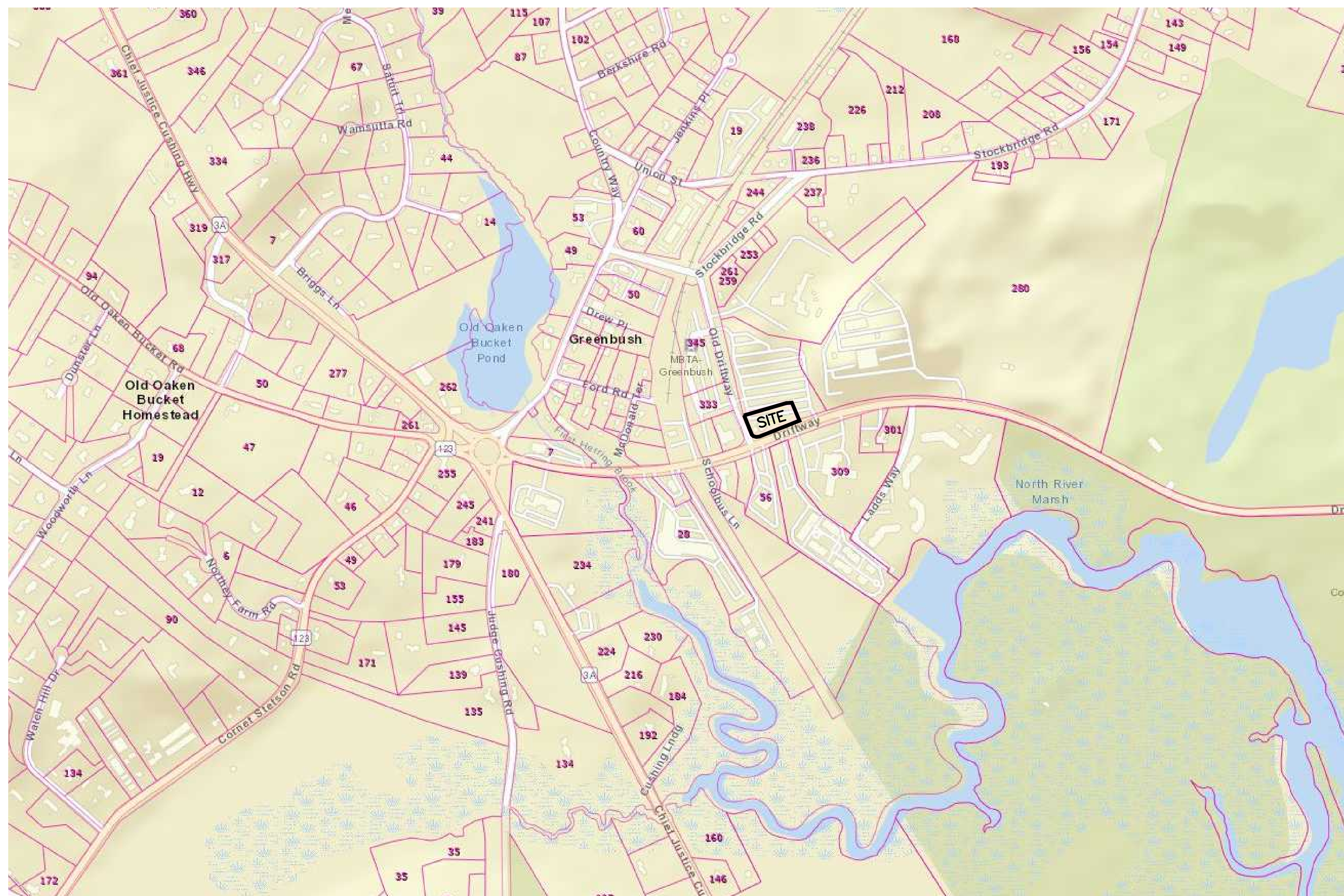
SITE PLAN

PROPOSED MIXED-USE DEVELOPMENT

61 NEW DRIFTWAY

(ASSESSOR'S PARCELS: 53-3-2A)

SCITUATE, MASSACHUSETTS



ABBREVIATIONS

APPROX	APPROXIMATE
A.C.	ASBESTOS CEMENT
CB/DH	CONC. BOUND/DRILL HOLE
CB/LP	CONC. BOUND/LEAD PLUG
CCB	CAFÉ COD BERM
CIP	CAST IN PLACE CONCRETE CURB
CONC	CONCRETE
D	DRAIN
E	ELECTRIC
EM	ELECTRIC METER
FND	FOUNDATION
ELEV	ELEVATION
EXIST	EXISTING
FES	FLARED END SECTION
G	GAS
GM	GAS METER
HDPE	HIGH DENSITY POLYETHYLENE
I	INVERT
IP	IRON PIPE
LS	LANDSCAPING
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
OHW	OVERHEAD WIRE
PROP	PROPOSED
PVC	POLYVINYLCHLORIDE PIPE
R	RIM
RCP	REINFORCED CONCRETE PIPE
RD	RADIUS
S	SEWER
SB/DH	STONE BOUND/DRILL HOLE
TP	TESTPIT
TYP	TYPICAL
UP	UTILITY POLE
W	WATER
WG	WATER GATE
EP	EDGE OF PAVEMENT
LS	LANDSCAPE
VCC	VERTICAL GRANITE CURB

LEGEND

EXISTING	PROPOSED	
---	---	CONTOUR ELEVATION
---	---	EROSION CONTROL/LIMIT OF WORK
x100.0	+100.0	SPOT GRADE
(D)	(D)	DRAIN MANHOLE (DMH)
(S)	(S)	CATCH BASIN (CBN)
(S)	(S)	SEWER MANHOLE (SMH)
(C)	(C)	STORMCEPTOR
(UP)	(UP)	UTILITY POLE (UP)
(*)	(*)	LIGHT POLE
(▲)	(▲)	LIGHT
(□)	(□)	SIGN
(♿)	(♿)	VAN-ACCESSIBLE HANDICAP PARKING
(---)	(---)	FENCE
(▲)	(▲)	ADA ACCESSIBLE RAMP
(●)	(●)	DECIDUOUS TREE
(★)	(★)	CONIFEROUS TREE

GENERAL NOTES:

- RECORD OWNER: JOHN TEDESCHI & JAMES MCINNIS
- DEED REFERENCES: PLYMOUTH COUNTY REGISTRY OF DEEDS BK. 37580 PG. 266
- PLAN REFERENCES: PLYMOUTH COUNTY REGISTRY OF DEEDS PLAN 898 OF 1983
- THE SUBJECT PROPERTY IS LOCATED WITHIN THE TOWN OF SCITUATE VILLAGE CENTER & NEIGHBORHOODS ZONING DISTRICT, SPECIFICALLY THE NEW DRIFTWAY TRANSIT VILLAGE SUBDISTRICT (GDG-NDTV).
- THE SUBJECT PROPERTY IS NOT LOCATED WITHIN THE TOWN OF SCITUATE FLOOD PLAIN & WATERSHED PROTECTION DISTRICT.
- THE SUBJECT PROPERTY IS NOT LOCATED WITHIN THE TOWN OF SCITUATE WATER RESOURCE PROTECTION DISTRICT.
- THIS PLAN IS BASED ON A GROUND SURVEY PERFORMED BY MORSE ENGINEERING COMPANY, INC. IN MARCH OF 2016 AND JULY OF 2021.
- THERE ARE NO KNOWN WETLAND RESOURCE AREAS ON THE SUBJECT PROPERTY OR WITHIN 100' OF THE PROPOSED PROJECT.
- THE SUBJECT PROPERTY LIES IN ZONE "X" AS SHOWN ON FEMA COMMUNITY MAP PANEL 25023C 0136L DATED JULY 6, 2021.
- THE SUBJECT PROPERTY DOES NOT LIE WITHIN A DEP DESIGNATED ZONE II RESOURCE AREA.
- THE SUBJECT PROPERTY IS NOT LOCATED WITHIN A DEP ZONE A SURFACE WATER SUPPLY AREA.
- UTILITIES SHOWN ON THIS PLAN ARE BASED ON OBSERVANCE OF ABOVE GROUND UTILITIES AND RECORD LOCATION OF BELOW GROUND UTILITIES. NO WARRANTY IS EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE LOCATIONS OF SAID UTILITIES, OR THE EXISTENCE OR NON EXISTENCE OF ANY OTHER SUCH UTILITIES.
- THE CONTRACTOR SHALL CONTACT DIG SAFE (888-344-7233) AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY FIELD CHANGES.
- ALL KNOWN EASEMENTS ON THE PROPERTY ARE SHOWN.
- ALL ELEVATIONS ARE ON THE NAVD88 DATUM.
- PROPOSED CONSTRUCTION LAYOUT FOR PARCEL 53-2-10 SOURCED FROM MASTER SITE PLAN BY CARR, LYNCH, AND SANDELL, INC. DATED 1/18/2019.



SITE PLAN APPROVAL

DATE OF APPLICATION: _____

DATE OF HEARING: _____

DATE OF APPROVAL: _____

DATE OF ENDORSEMENT: _____

SCITUATE PLANNING BOARD

APPLICANT/OWNER

JOHN TEDESCHI
PO BOX 361
SCITUATE, MA 02066
(781) 424-8351

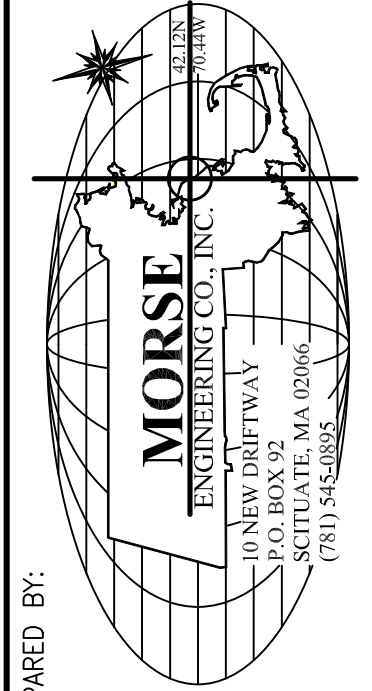
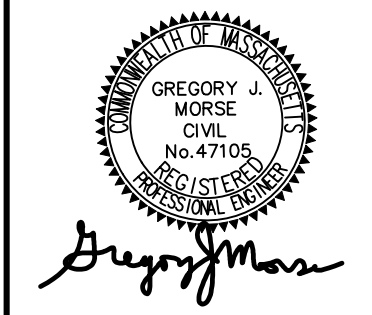
ARCHITECT

AXIOM ARCHITECTS
2048 WASHINGTON STREET
HANOVER, MA 02339
(781) 871-2101

CIVIL ENGINEER / LAND SURVEYOR

MORSE ENGINEERING CO., INC.
10 NEW DRIFTWAY, SUITE 303
SCITUATE, MA 02066
(781) 545-0985

BY:	
DESCRIPTION	
REV. DATE	



PROJECT: 61 NEW DRIFTWAY (ASSESSOR'S PARCELS: 53-3-2A) SCITUATE, MASSACHUSETTS

PREPARED FOR: JOHN TEDESCHI

JOB NO:	14-203
SCALE:	AS NOTED
DESIGN:	PGG
CHK:	GJM
DATE:	7/13/2022

PLAN TITLE: COVER

SHEET: 1 OF 8

SHEET INDEX	
SHEET 1	COVER PAGE
SHEET 2	EXISTING CONDITIONS
SHEET 3	EROSION & SEDIMENTATION CONTROL
SHEET 4	SITE LAYOUT & LANDSCAPING
SHEET 5	GRADING & UTILITIES
SHEET 6	CONSTRUCTION DETAILS I
SHEET 7	CONSTRUCTION DETAILS II
SHEET 8	CONSTRUCTION DETAILS III

SOIL TEST DATA

SOIL TESTING AND EVALUATION BY: PAUL GRAEME GUNN, SE#14392
DATE: JUNE 20, 2022

TP-1	APPROX. GRADE EL.	TP-2	APPROX. GRADE EL.
EL. 30.4	FILL	EL. 33.7	A HORIZON LOAMY SAND 10YR 3/4
EL. 24.7	C HORIZON COARSE SAND 2.5Y 5/3	EL. 31.8	B HORIZON LOAMY SAND 10YR 5/3
	WEEPING OBSERVED: NONE MOTTILING OBSERVED: NONE ESHGW: >120" (EL. 24.7)	EL. 24.5	C HORIZON COARSE SAND 2.5Y 5/3
			WEEPING OBSERVED: NONE MOTTILING OBSERVED: NONE ESHGW: >120" (EL. 24.5)
TP-3	APPROX. GRADE EL.	TP-4	APPROX. GRADE EL.
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EL. 23.5	C HORIZON FINE SAND 2.5Y 5/5	EL. 22.5	C HORIZON FINE SAND 2.5Y 5/5
	WEEPING OBSERVED: NONE MOTTILING OBSERVED: NONE ESHGW: >120" (EL. 23.5)		WEEPING OBSERVED: NONE MOTTILING OBSERVED: NONE ESHGW: >120" (EL. 22.5)

SITE PLAN APPROVAL

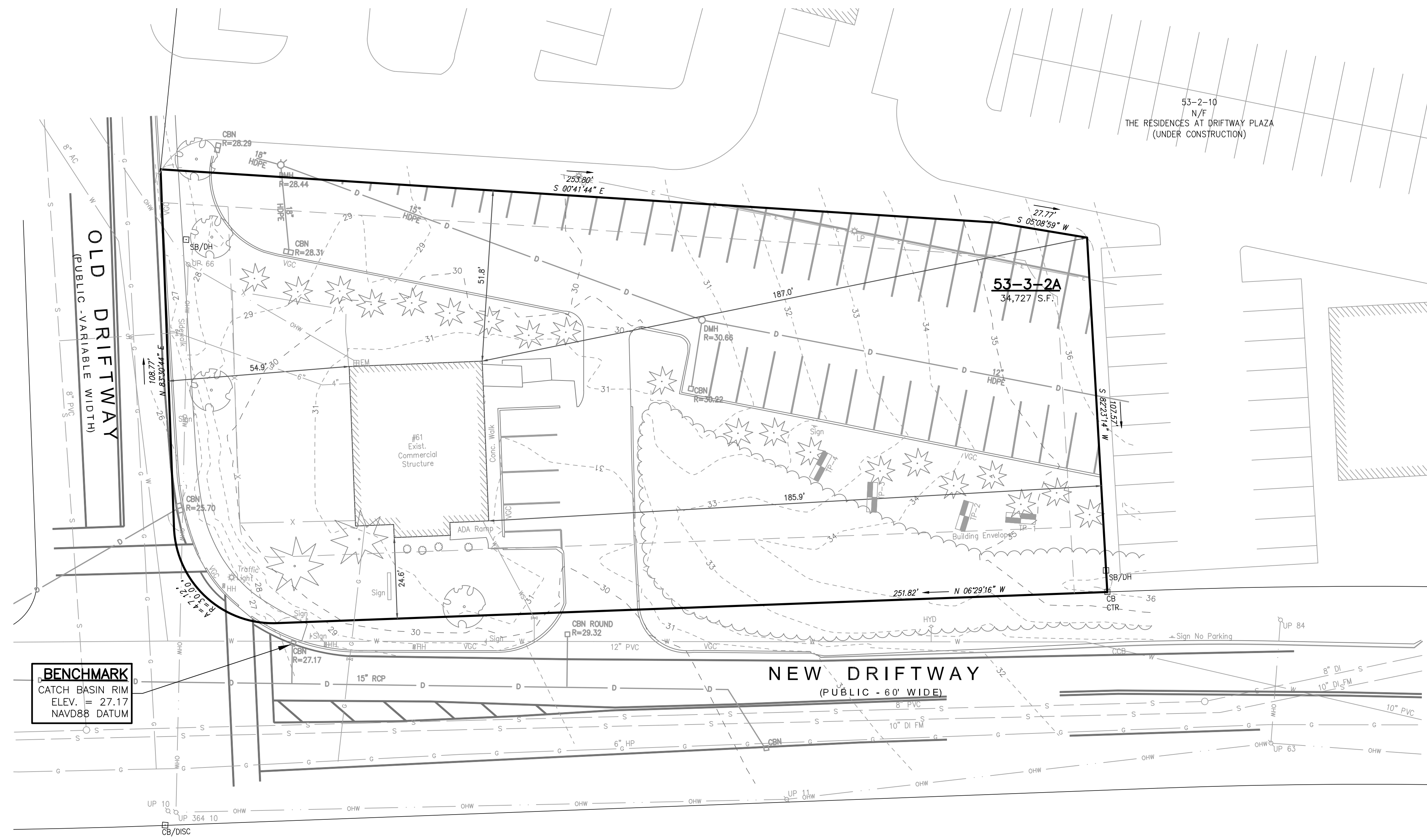
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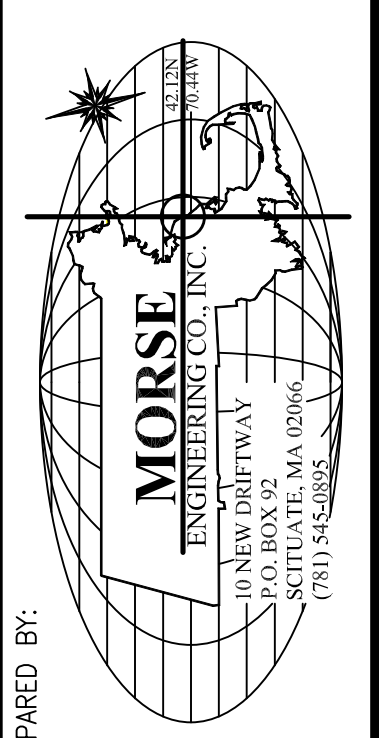
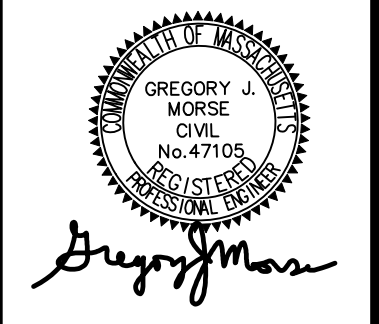
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SCITUATE PLANNING BOARD



REV.	DATE	DESCRIPTION



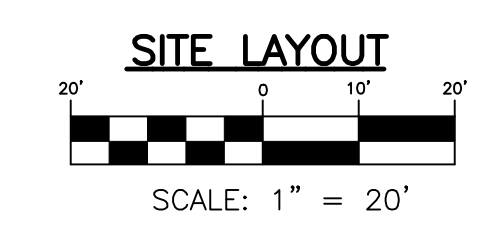
PROJECT: **61 NEW DRIFTWAY**
(ASSESSOR'S PARCELS: 63-3-2A)
SCITUATE, MASSACHUSETTS

PREPARED FOR: **JOHN TEDESCHI**

JOB NO: 14-203
SCALE: 1" = 20'
DESIGN: PGG
CHK: GJM
DATE: 7/13/2022

PLAN TITLE: **EXISTING CONDITIONS**

SHEET: **2 OF 8**



EROSION CONTROL NOTES

- DURING CONSTRUCTION, THE CONSTRUCTION PHASE OPERATION & MAINTENANCE REQUIREMENTS AS OUTLINED IN THE STORMWATER REPORT SHOULD BE KEPT READILY AVAILABLE AND ALL REQUIREMENTS, INCLUDING DUST STABILIZATION AND MAINTENANCE OF SILT SACKS AND EROSION CONTROL BARRIERS, FOLLOWED.
- ALL NEWLY INSTALLED CATCH BASINS OVER THE COURSE OF CONSTRUCTION TO BE INSTALLED WITH SEDIMENT TRAPS AND FILTER SACKS TO PREVENT MATERIAL FROM ENTERING DRAINAGE SYSTEMS AND CLOGGING. THESE SHALL REMAIN UNTIL THE SITE IS FULLY STABILIZED, AND BE INSPECTED WITH OTHER EROSION CONTROL MEASURES.
- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORMEVENT OF 1/2 INCH OR GREATER. INSPECTIONS SHALL BE PERFORMED UNTIL THE SITE IS FULLY STABILIZED AND TEMPORARY SEDIMENTATION CONTROLS HAVE BEEN REMOVED.
- DURING CONSTRUCTION, STABILIZATION PRACTICES SHOULD BE FOLLOWED. DISTURBED AREAS SHALL BE STABILIZED AND PROTECTED AS SOON AS PRACTICABLE. DISTURBED AREAS SHALL BE STABILIZED WHEN CONSTRUCTION ACTIVITY IN THE AREA HAS CEASED FOR MORE THAN 14 DAYS UNLESS NOT FEASIBLE DUE TO SNOW COVER OR IF CONSTRUCTION ACTIVITIES WILL RESUME WITHIN 21 DAYS AFTER CONSTRUCTION TEMPORARILY CEASED. STABILIZED MEASURES INCLUDE THE FOLLOWING:
 - TEMPORARY SEEDING
 - GEOTEXTILES
 - MULCHING AND NETTING
 - PERMANENT SEEDING

CONSTRUCTION NOTES

- ALL DISTURBED AREAS OUTSIDE OF PARKING AND ACCESS AREAS ARE TO BE LOAMED AND SEED TO PREVENT EROSION.
- THE CONTRACTOR MUST MAINTAIN A CLEAN JOBSITE AND PREVENT THE MIGRATION OF ANY SEDIMENT OR DEBRIS ONTO NEW DRIFTWAY, OLD DRIFTWAY, OR ADJACENT PROPERTIES.
- THE CONTRACTOR SHALL PROTECT ALL PROPERTY AND SURVEY MARKERS AS ENCOUNTERED DURING CONSTRUCTION. IF DISTURBED, THE CONTRACTOR SHALL HAVE BOUNDS RESET BY A PROFESSIONAL LAND SURVEYOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE PROPOSED WORK.
- THE CONTRACTOR SHALL BE MADE AWARE OF AND COMPLY WITH THE STORMWATER MANAGEMENT PERMIT AS ISSUED BY THE TOWN OF SCITUATE.
- THE CONTRACTOR SHALL INSTALL EROSION CONTROL BARRIER AT THE LOCATIONS SHOWN PRIOR TO ANY LAND DISTURBANCE OR CLEARING.
- THE CONTRACTOR SHALL INSTALL A CRUSHED STONE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO CONSTRUCTION.

CONSTRUCTION SEQUENCE

- TO PREVENT EXCESSIVE EROSION AND SILTING, THE FOLLOWING CONSTRUCTION SEQUENCE COUPLED WITH OTHER WIDELY ACCEPTED PRINCIPALS FOR REDUCING EROSION AND SEDIMENTATION SHALL BE IMPLEMENTED IN THE DEVELOPMENT OF THE SITE.
- STABILIZATION AND EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. PLACE BARRIERS AT LOCATIONS INDICATED ON THE SITE PLANS.
 - DISCONNECT EXISTING UTILITIES FROM SITE. CONTACT UTILITY PURVEYORS FOR INDIVIDUAL REQUIREMENTS. DEMOLISH EXISTING BUILDING. REMOVE AND DISPOSE OF ALL DEBRIS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
 - STRIP AND REMOVE FROM SITE ANY EXISTING CONCRETE, ASPHALT AND DEBRIS.
 - EXCAVATE FOUNDATIONS, FORM AND POUR FOUNDATION WALLS.
 - CONSTRUCT CUT AND FILL AREAS. ALL FILL WILL BE INSTALLED USING 12" MAXIMUM COMPACTION LIFTS.
 - INSTALL ALL DRAINAGE SYSTEM COMPONENTS AND OTHER UTILITIES. ALL CATCH BASINS SHALL BE PROTECTED WITH EROSION CONTROLS AS SHOWN ON THE PLANS OR EQUIVALENT INLET PROTECTION UNTIL FINAL SITE STABILIZATION.
 - GRADE SIDEWALKS AND PARKING AREAS TO SUBGRADE ELEVATION AND CONSTRUCT SIDE SLOPES. APPLY TEMPORARY STABILIZATION MEASURES WHERE WARRANTED.
 - PLACE GRAVEL SUBBASE AND PLACE THE BITUMINOUS CONCRETE BINDER COURSE ON PARKING SURFACES. SET CATCH BASIN GRATES FLUSH WITH THE BINDER COURSE.
 - GRADE SLOPES AND STABILIZE CUT AREAS AT TOE OF SLOPES. BLEND ALL SLOPES INTO EXISTING TOPOGRAPHY AND LOAM AND SEED ALL DISTURBED AREAS.
 - COMPLETE FINE GRADING AND LANDSCAPING OF THE SITE.
 - ACTIVATE DRAINAGE SYSTEMS WHEN ALL TRIBUTARY AREAS ARE STABILIZED. ALL CLOSED DRAINAGE PIPES MUST BE FLUSHED PRIOR TO ACTIVATION.
 - REMOVE TEMPORARY EROSION CONTROL DEVICES ONCE ADEQUATE GROWTH IS ESTABLISHED. ADEQUATE GROWTH IS DEFINED AS VEGETATION COVERING 75% OR MORE OF THE GROUND SURFACE.

SITE PLAN APPROVAL

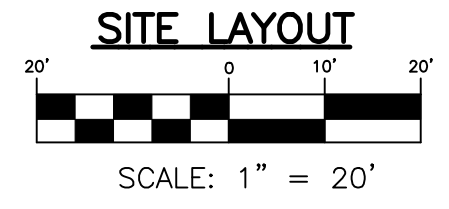
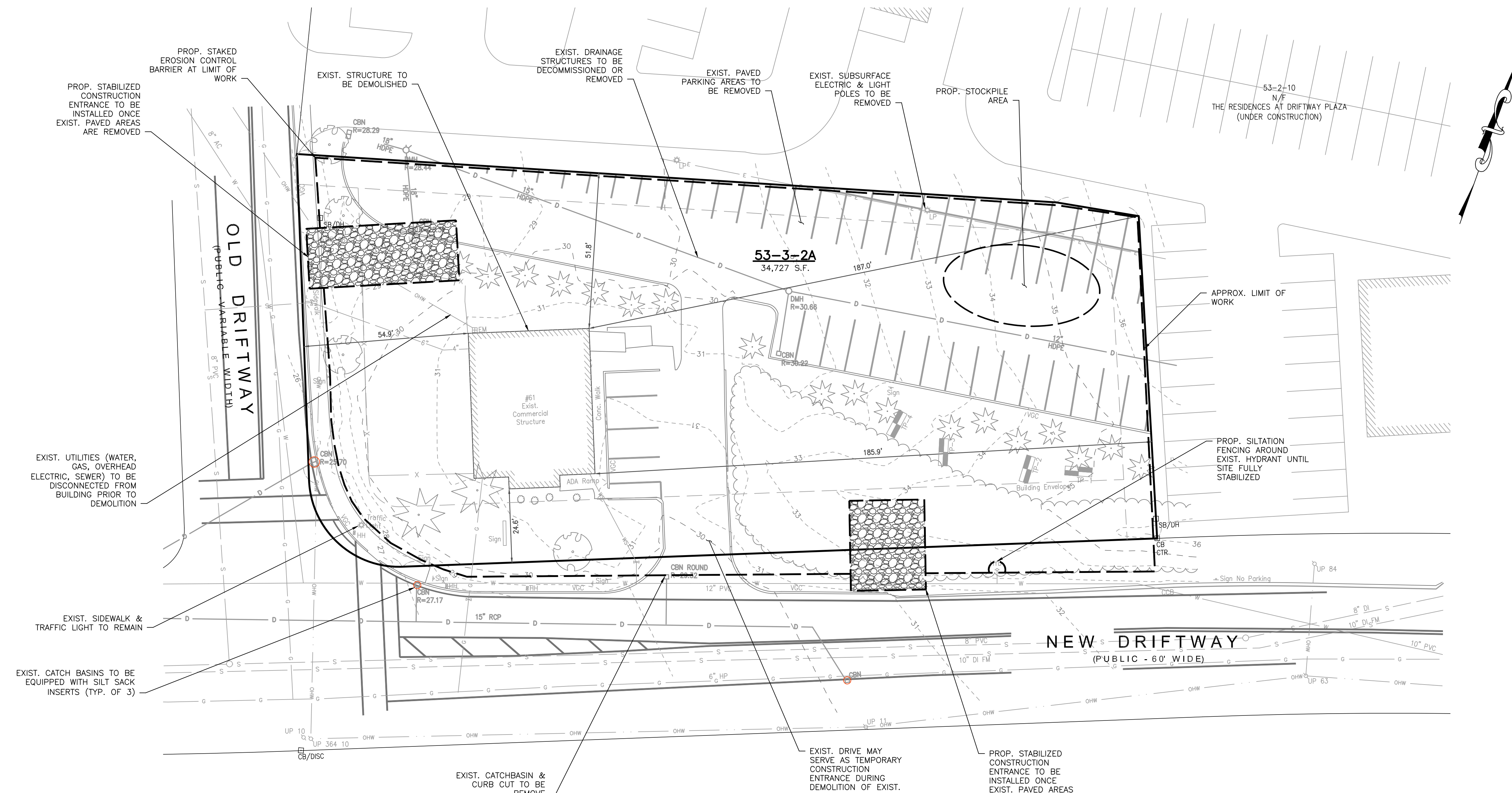
DATE OF APPLICATION: _____

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SCITUATE PLANNING BOARD



REV.	DATE	DESCRIPTION

PREPARED BY: *Gregory J. Morse*

MORSE
ENGINEERING CONSULTANTS
10 NEW DRIFTWAY
SCITUATE, MA 01906
(978) 545-0895

PROJECT: **61 NEW DRIFTWAY (ASSESSOR'S PARCELS: 53-3-2A) SCITUATE, MASSACHUSETTS**

PREPARED FOR: **JOHN TEDESCHI**

JOB NO:	14-203
SCALE:	1" = 20'
DESIGN:	PGG
CHK:	GJM
DATE:	7/13/2022
PLAN TITLE:	EROSION & SEDIMENTATION CONTROL
SHEET:	3 OF 8

SECTION 580.2

1. LOCUS LIES WITHIN THE VILLAGE CENTER & NEIGHBORHOOD DISTRICT, SPECIFICALLY THE NEW DRIFTWAY TRANSIT VILLAGE SUBDISTRICT (GDG-NDTV).
2. THE LOCUS DOES NOT LIE WITHIN ANY OF THE CIVIC OVERLAY ZONES.
3. THE LOCUS HAS FRONTAGE ON THE PEDESTRIAN FRONTAGE OVERLAY ZONE, ALONG NEW DRIFTWAY AND OLD DRIFTWAY.
4. THE LOCUS DOES NOT LIE WITHIN THE TRANSITIONAL BUFFER OVERLAY ZONE.

SECTION 580.3

1. PROPOSED BUILDING TYPES:
MIXED-USE (ALLOWED BY RIGHT WITHIN GDG-NDTV SUBDISTRICT)
2. BUILDING IS SUBJECT TO DESIGN STANDARDS AS SET FORTH IN SECTION 750 OF THE SCITUATE ZONING BYLAWS.

SECTION 580.4

MAXIMUM UNITS IN MIXED-USE/MULTI-FAMILY BUILDINGS PER SECTION 580.4 TABLE 2 REQUIREMENTS

36 UNITS PER 43,560 S.F. BY SPECIAL PERMIT
 $\frac{36 \text{ UNITS}}{43,560 \text{ S.F.}} = \frac{X \text{ UNITS}}{34,727 \text{ S.F.}}$ X = 28.7 UNITS
 PROPOSED: 25 UNITS TOTAL

MINIMUM AMENITY SPACE: 20% OF LOT AREA
 REQUIRED: 20% x 34,727 S.F. = 6,945 S.F.
 PROVIDED: 7,206± S.F.

MINIMUM UNIT SPACE: 600 S.F. (1-BR)
 900 S.F. (2-BR & 3-BR)
 PROVIDED: SEE PLANS PREPARED BY AXIOM ARCHITECTS

SECTION 750.5

1. REFER TO ZONING TABLE FOR LOT & STRUCTURAL DIMENSIONAL REQUIREMENTS FOR MIXED USE STRUCTURES IN THE VCN DISTRICT.
2. ONLY ONE PRINCIPAL STRUCTURE IS PROPOSED.
3. PRINCIPAL AND ACCESSORY STRUCTURES MUST BE LOCATED OUTSIDE OF REQUIRED SETBACKS EXCEPT IN REGARDS TO THE PRIMARY & SECONDARY BUILD-TO-ZONES (BTZ).
4. THE FACADE OF THE PRINCIPAL STRUCTURES MUST BE PLACED WITHIN THE PRIMARY & SECONDARY BUILD-TO-ZONES.

BUILD-TO-ZONES (BTZ)
 MIXED USE BUILDINGS: 0 - 20'

5. BTZ OCCUPANCY IS EQUAL TO THE WIDTH OF THE FRONT FACADE OF PRINCIPAL STRUCTURE AS A PERCENTAGE OF THE LENGTH OF THE LOT FRONTAGE AND MUST EQUAL 50% MINIMUM.

PRIMARY BUILD-TO-ZONE OCCUPANCY (BTZO)
 PROPOSED MIXED-USE STRUCTURE: 53%

SECONDARY BUILD-TO-ZONE OCCUPANCY (BTZO)
 PROPOSED MIXED-USE STRUCTURE: 75%

6. BUILDING HEIGHTS ARE DETERMINED VIA FIGURE 6 - BUILDING SETBACK, STEPBACK, AND STREET ENCLOSURE REGULATIONS.

BUILDING SETBACK TABLE FOR GREENBUSH-DRIFTWAY GATEWAY DISTRICT

STEPBACK	MAXIMUM BUILDING HEIGHT
0-25'	25'
25-50'	35'
>50'	45'

SECTION 750.6

TOWN OF SCITUATE "VILLAGE CENTER & NEIGHBORHOODS" ZONING DISTRICT
 GDG-NDTV - MIXED-USE BUILDING REQUIREMENTS (TABLE 1.B)

CRITERIA	REQUIRED	EXISTING	PROPOSED
LOT AREA	NOT REQ'D	34,727 S.F.	NO CHANGE
FRONTAGE	50'	407.71'	NO CHANGE
LOT DEPTH	NOT REQ'D	107.57'	NO CHANGE
FRONT YARD	0'-20'	24.6'	5.2'
SIDE YARD	10'	51.8'	36.2'
REAR YARD	20'	187.0'	129.1'
AMENITY SPACE COVERAGE	20%	N/A	22.0%
MAX. HEIGHT	4 STORIES/40'	<40'	39.5'
STREET FACING WIDTH	60'-150'	40.4'-48.4'	81.6'-133.0'
STREET FACING ENTRANCE	REQUIRED	PROVIDED	PROVIDED
MAXIMUM FOOTPRINT	20,000 S.F.	2,021 S.F.	9,885 S.F.

SECTION 760

REQUIRED PARKING SPACES PER SECTION 760.8 TABLE-2

- 1-BEDROOM UNIT IN MIXED-USE: 1 SPACE/UNIT
- 2-BEDROOM UNIT IN MIXED-USE: 1.5 SPACE/UNIT
- 3-BEDROOM UNIT IN MIXED-USE: 2.0 SPACE/UNIT
- GENERAL OFFICE OR RETAIL IN MIXED-USE: 1 SPACE/500 S.F. GFA

PARKING CALCULATION:

- (2) 3-BEDROOM UNITS x 2.0 SPACE/UNIT = 4 SPACES REQUIRED
- (6) 2-BEDROOM UNITS x 1.5 SPACE/UNIT = 9 SPACES REQUIRED
- (17) 1-BEDROOM UNITS x 1.0 SPACE/UNIT = 17 SPACES REQUIRED
- 4,200 S.F. RETAIL & OFFICE SPACE x 1 SPACE/500 S.F. = 8.4 SPACES REQUIRED

PROVIDED PARKING:

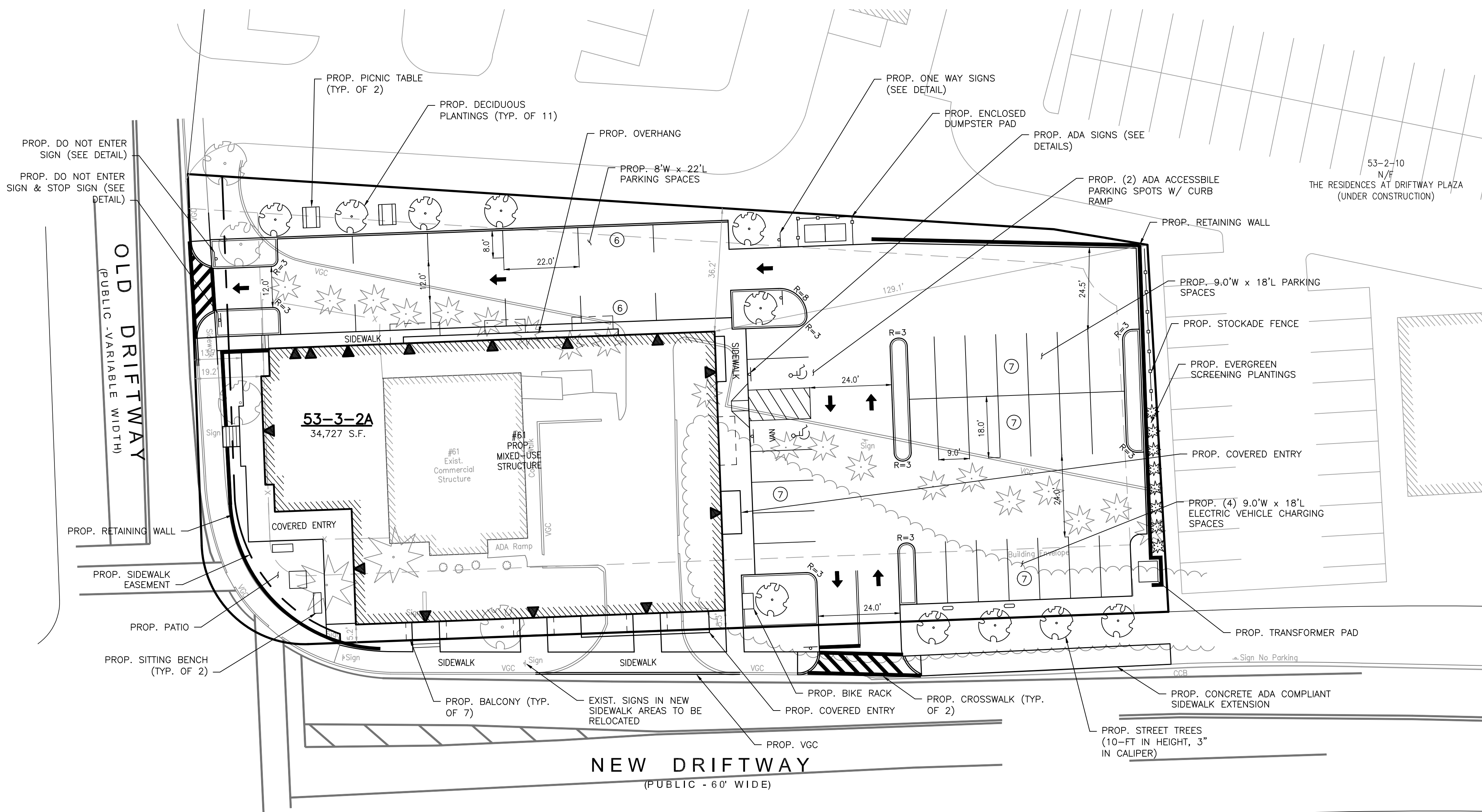
- 38.4 SPACES REQUIRED
- 40.0 SPACES PROVIDED

PARKING LOT DIMENSIONAL & LANDSCAPING REQUIREMENTS:

- MINIMUM PARKING SPACE: 9' x 18' (162 S.F.)
- PARKING PLANTING: 1 TREE / 8 PARKING SPACES
- 40 SPACES / 8 = 5 TREES REQUIRED
- 11 TREES PROVIDED
- 5% INTERIOR PARKING AREA DESIGNATED FOR LANDSCAPING
- 14,165 S.F. x 0.05 = 708 S.F. REQUIRED
- 1,104 S.F. PROVIDED

PARKING LOT ENTRANCES: 20' MINIMUM WIDTH (24' PROVIDED)

- BICYCLE RACKS: BICYCLE RACK MUST BE PROVIDED IN PARKING LOTS WITH 5 OR MORE SPACES & SHALL NOT PROVIDE LESS THAN 10% AVAILABLE PARKING SPACES
- 40 SPACES x 0.10 = 4 SPOTS REQUIRED
- 8 SPOTS PROVIDED



SITE PLAN APPROVAL

DATE OF APPLICATION: _____

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SCITUATE PLANNING BOARD

REV.	DATE	DESCRIPTION

PREPARED BY:

PREPARED BY:

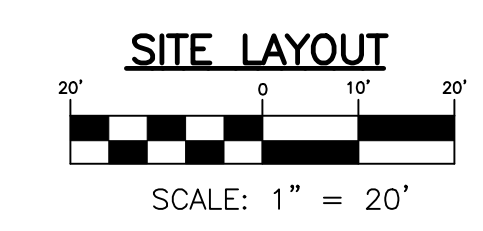
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61 NEW DRIFTWAY
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PREPARED FOR:

JOHN TEDESCHI

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PLAN TITLE:	SITE LAYOUT & LANDSCAPING
SHEET:	4 OF 8



SOIL TEST DATA

SOIL TESTING AND EVALUATION BY: PAUL GRAEME GUNN, SE#14392
DATE: JUNE 20, 2022

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EL. 30.8	B HORIZON LOAMY SAND TOYR 5/3 32"	EL. 27.3	B HORIZON LOAMY SAND TOYR 5/3 62"
EL. 23.5	C HORIZON FINE SAND 2.5Y 5/5 120"	EL. 22.5	C HORIZON FINE SAND 2.5Y 5/5 120"
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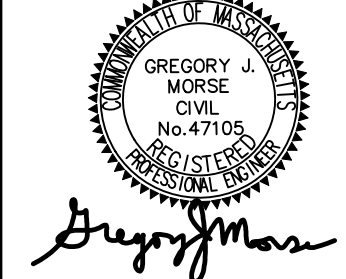
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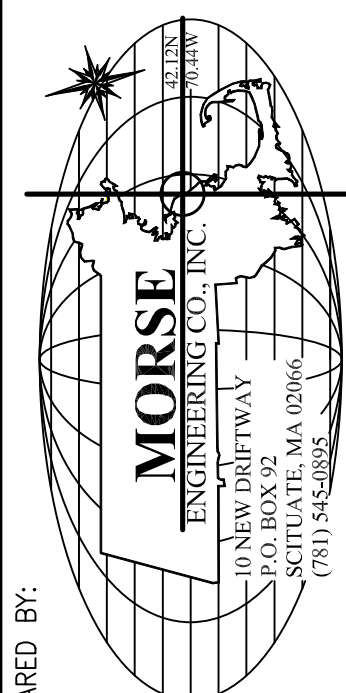
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SCITUATE PLANNING BOARD

REV.	DATE	DESCRIPTION

PREPARED BY: 
Gregory Morse

PROJECT: 
MORSE ENGINEERING & CONSTRUCTION
10 NEW DRIFTWAY
SCITUATE, MA 01906
(978) 546-2895

SCHEDULE OF DRAINAGE STRUCTURES

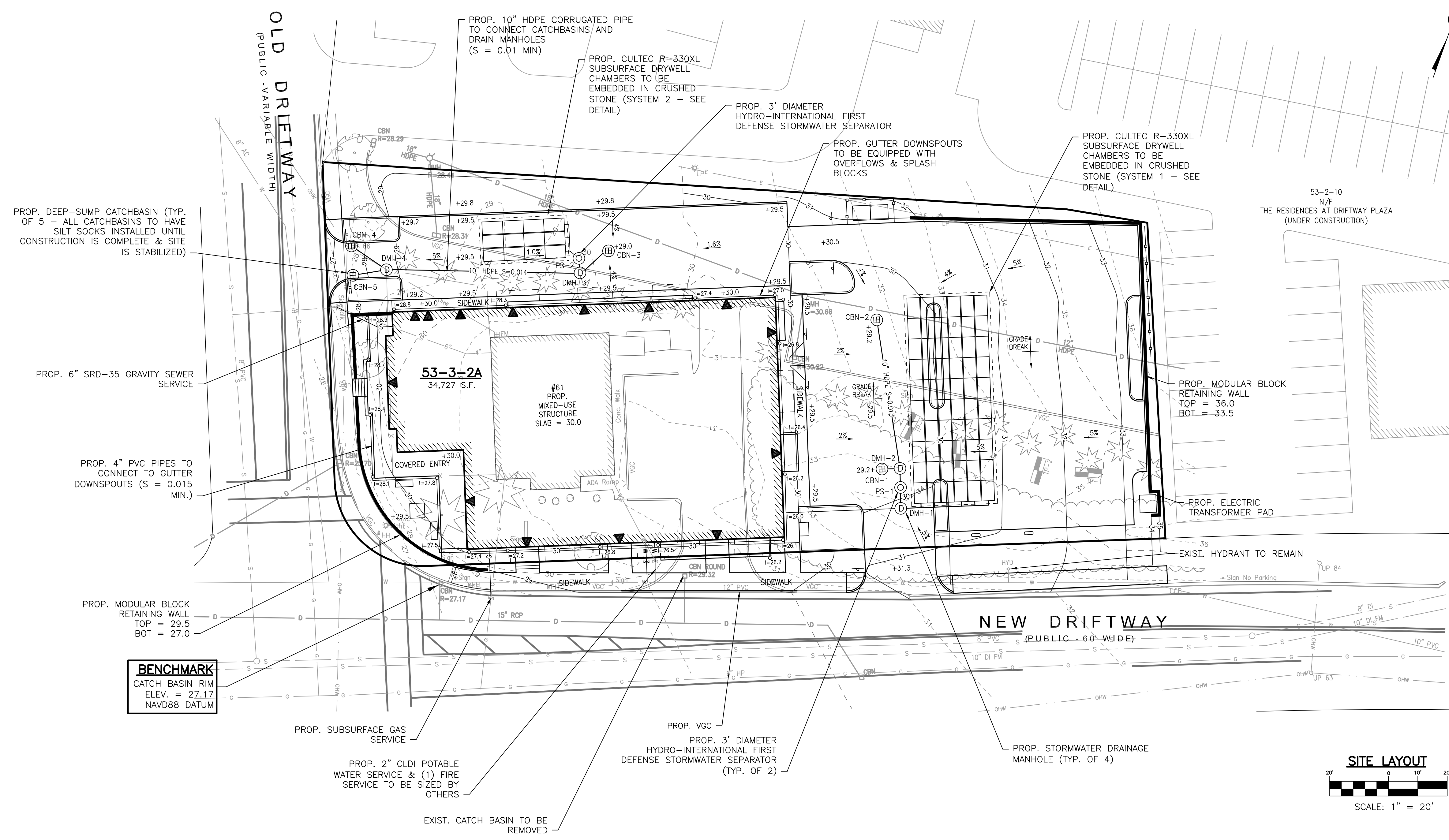
STRUCTURE	RIM	INVERT (IN)	INVERT (OUT)
DMH-1	30.2	25.4	25.3
PS-1	29.7	25.8	25.5
DMH-2	29.2	26.0	25.9
CBN-1	29.2		26.1
CBN-2	29.2		26.6
PS-2	29.2	21.9	21.8
DMH-3	29.4	22.1	22.0
CBN-3	29.0		22.3
DMH-4	28.7	23.1	23.0
CBN-4	27.5		23.5
CBN-5	27.5		23.5

SCH. OF DRYWELL ELEVATIONS - SYSTEM 1

CULTEC R-330XL DRYWELLS	ELEVATION
ESHGW	22.5
BOTTOM OF STONE	24.5
BOTTOM OF CHAMBER	25.0
INV. INTO CHAMBER	25.0
TOP OF CHAMBER	27.5
TOP OF STONE	28.0
MINIMUM FINISHED GRADE	28.8

SCH. OF DRYWELL ELEVATIONS - SYSTEM 2

CULTEC R-330XL DRYWELLS	ELEVATION
ESHGW	19.0
BOTTOM OF STONE	21.0
BOTTOM OF CHAMBER	21.5
INV. INTO CHAMBER	21.5
TOP OF CHAMBER	24.0
TOP OF STONE	24.5
MINIMUM FINISHED GRADE	25.4



PREPARED BY: JOHN TEDESCHI

PROJECT: 61 NEW DRIFTWAY (ASSESSORS PARCELS: 53-3-2A) SCITUATE, MASSACHUSETTS

JOB NO: 14-203

SCALE: 1" = 20'

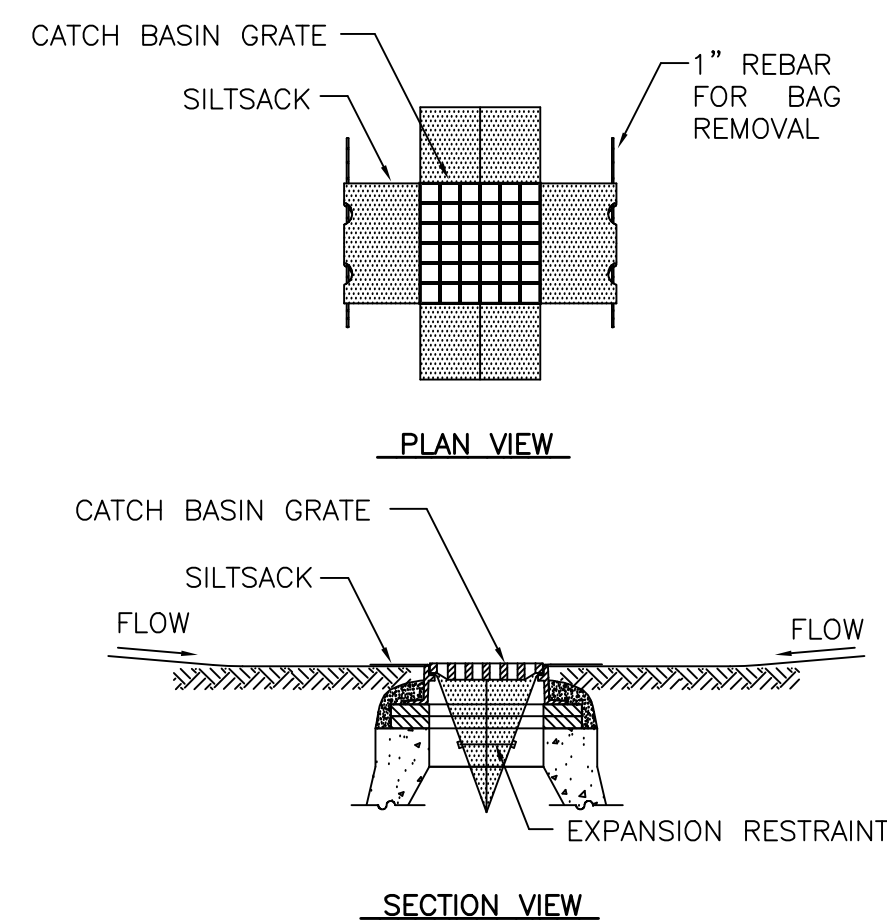
DESIGN: PGG

CHK: GJM

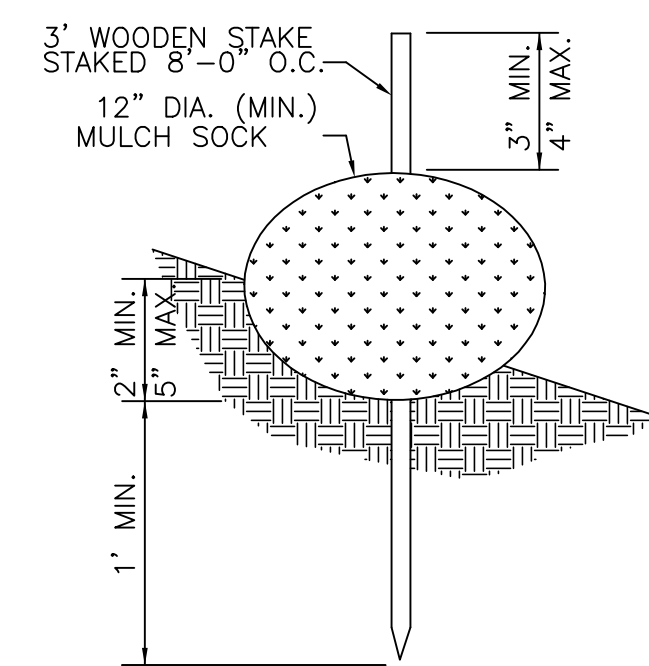
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PLAN TITLE: GRADING & UTILITIES

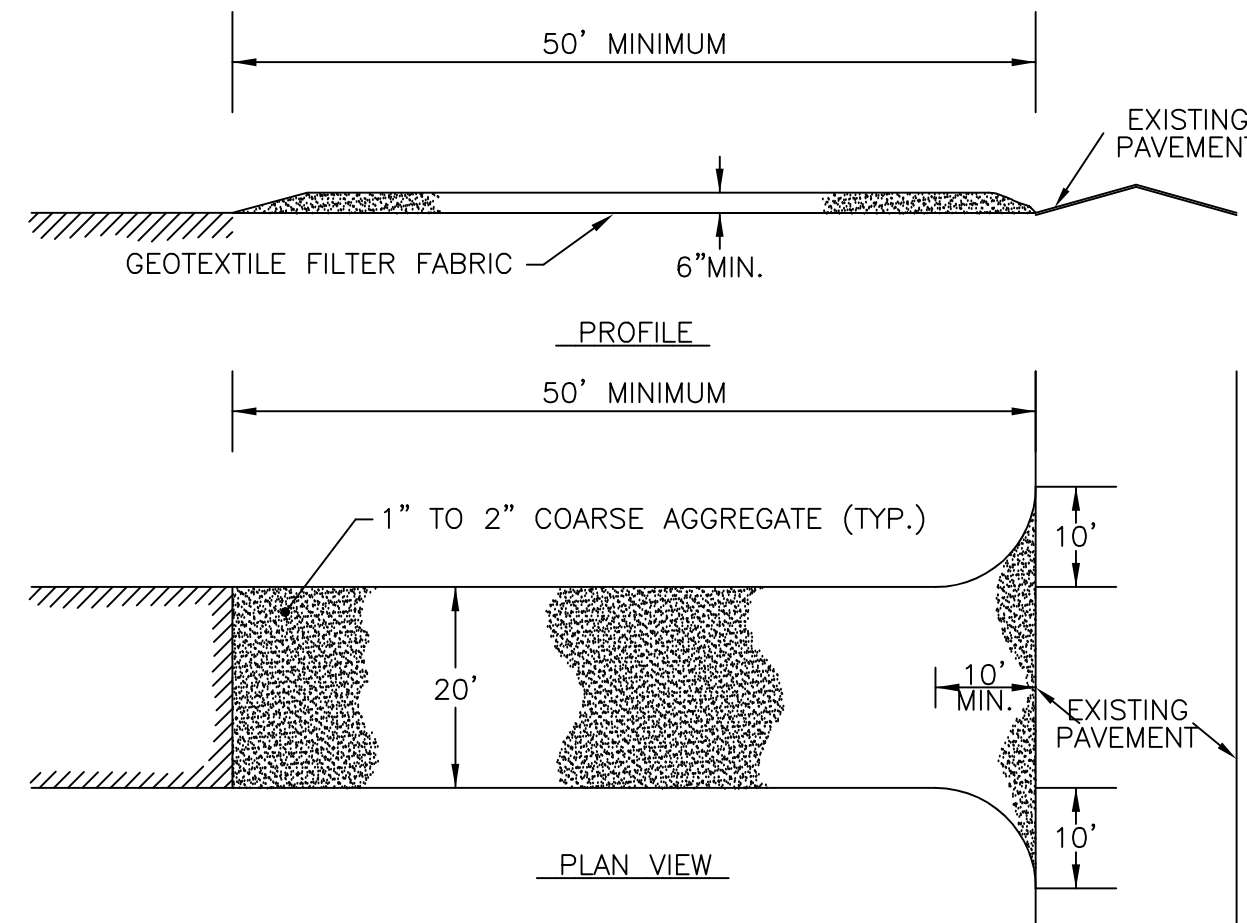
SHEET: 5 OF 8



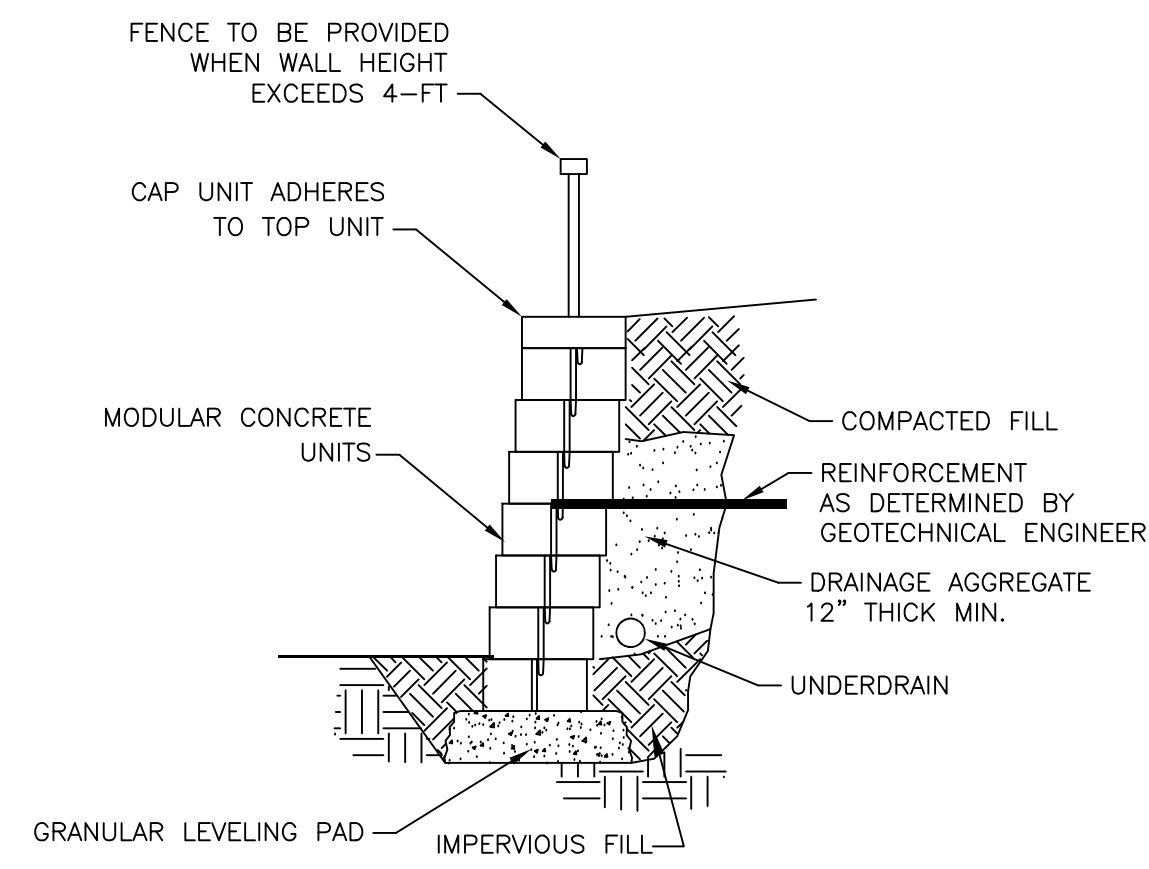
SILTSACK SEDIMENT TRAP
NOT TO SCALE



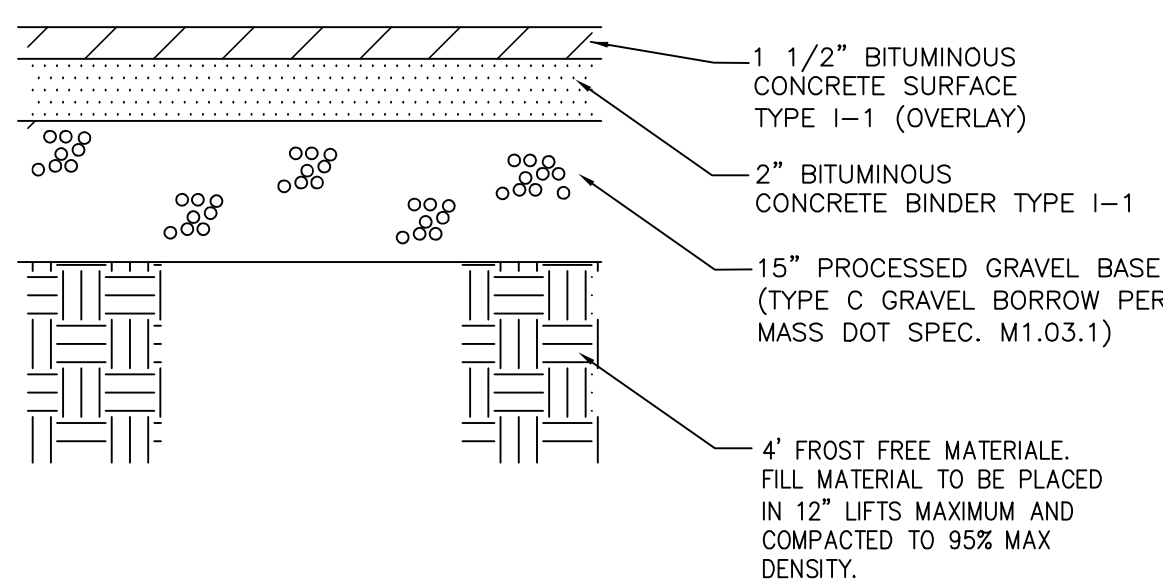
STAKED MULCH SOCK DETAIL
NOT TO SCALE



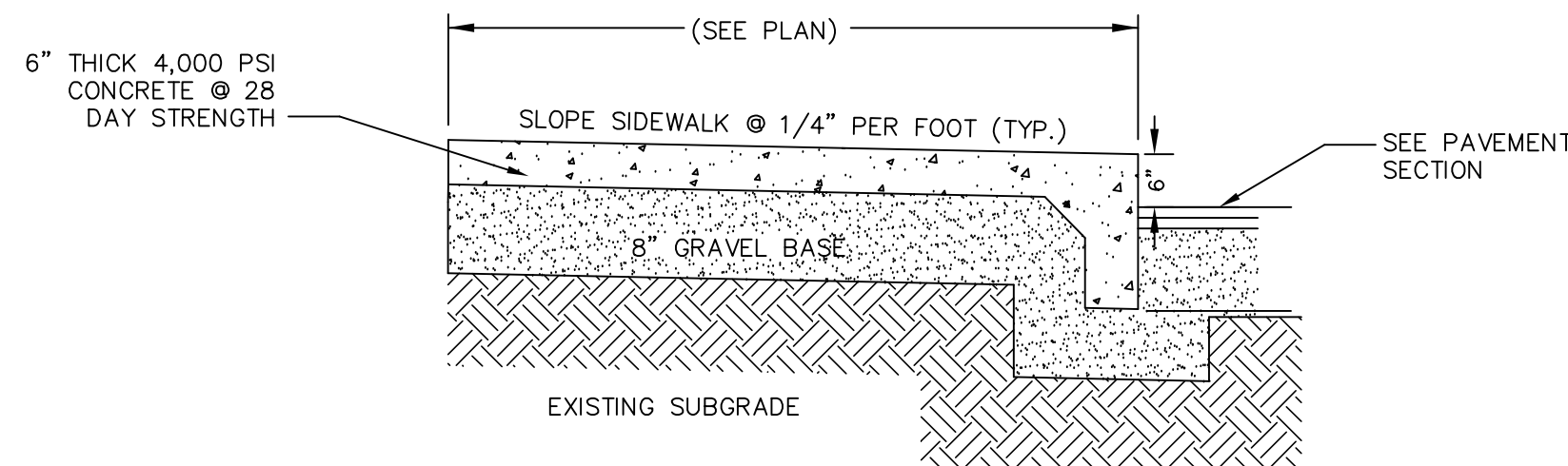
STABILIZED CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



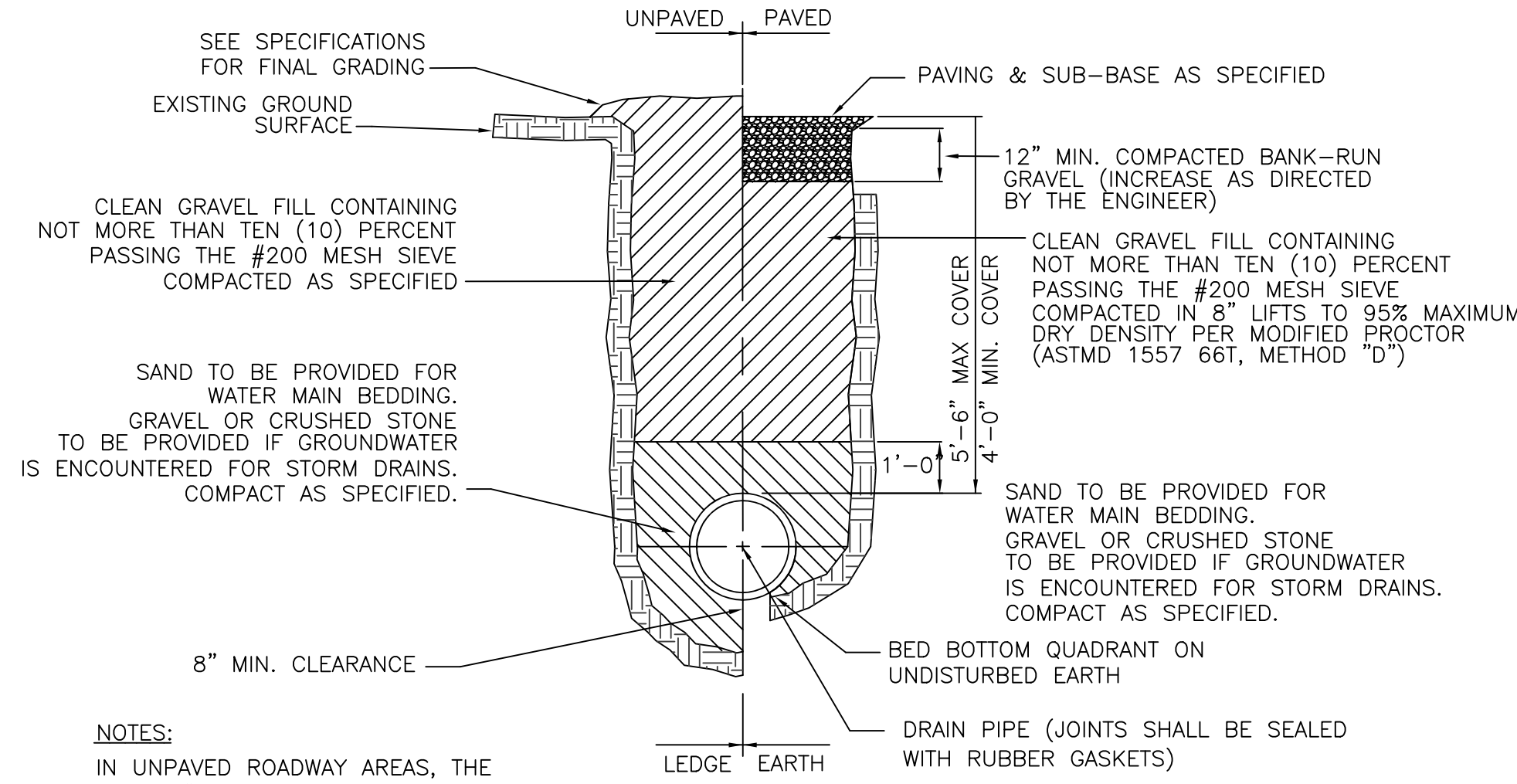
MODULAR BLOCK RETAINING WALL
NOT TO SCALE



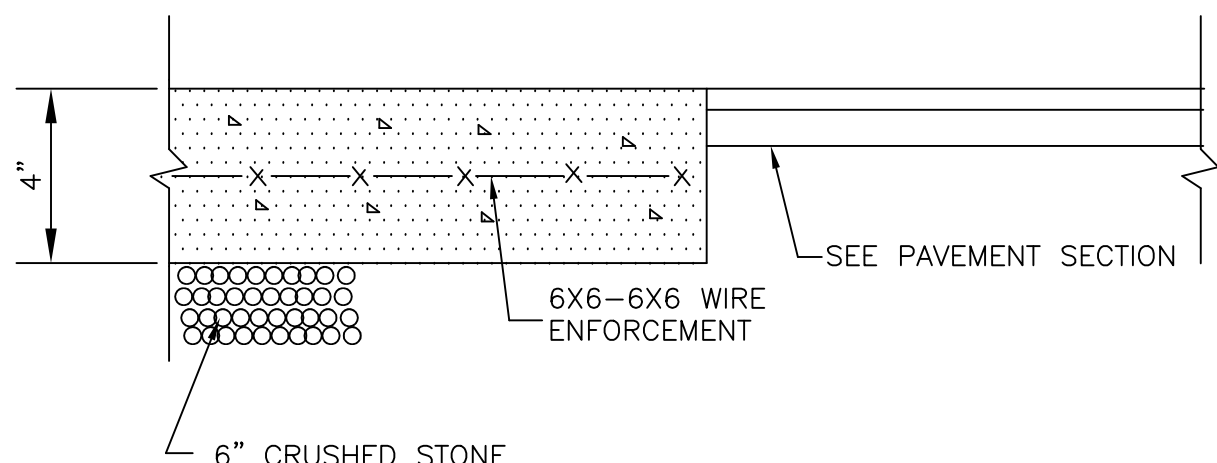
STANDARD BITUMINOUS CONCRETE PAVEMENT DETAIL
NOT TO SCALE



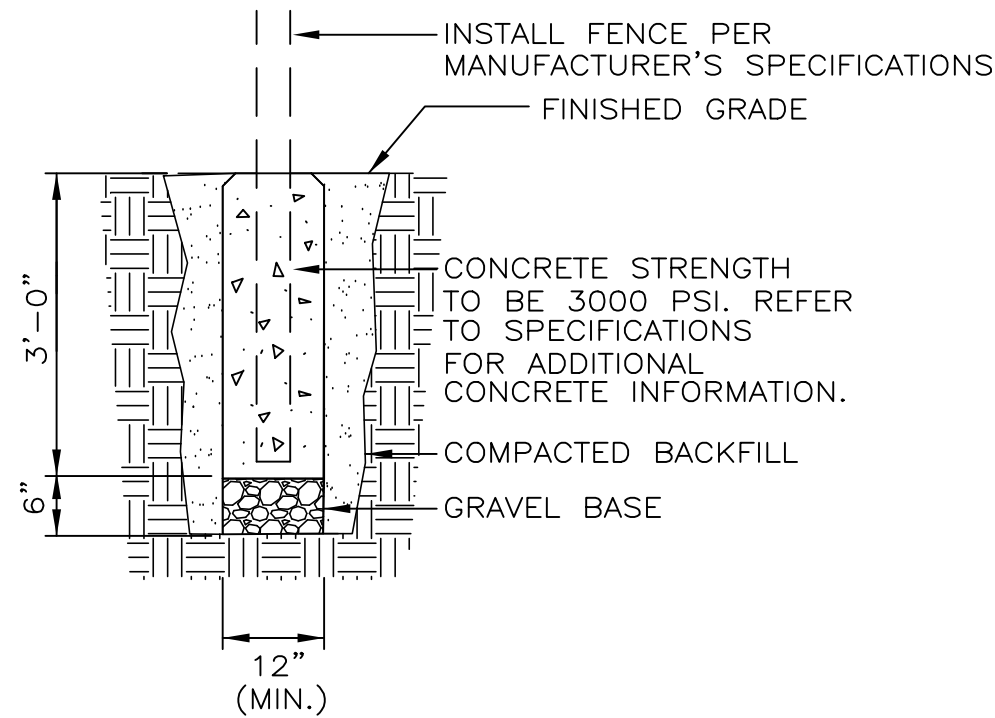
CAST IN PLACE CONCRETE SIDEWALK & CURB DETAIL (CIP)
NOT TO SCALE



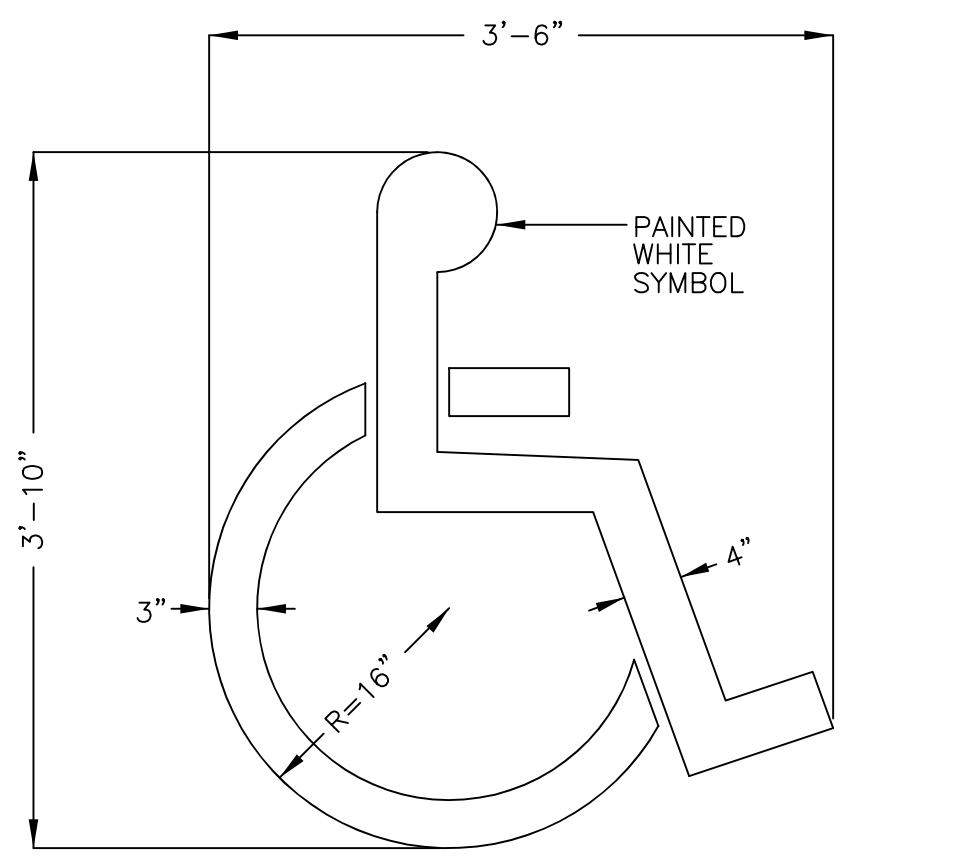
TYPICAL TRENCH
NOT TO SCALE



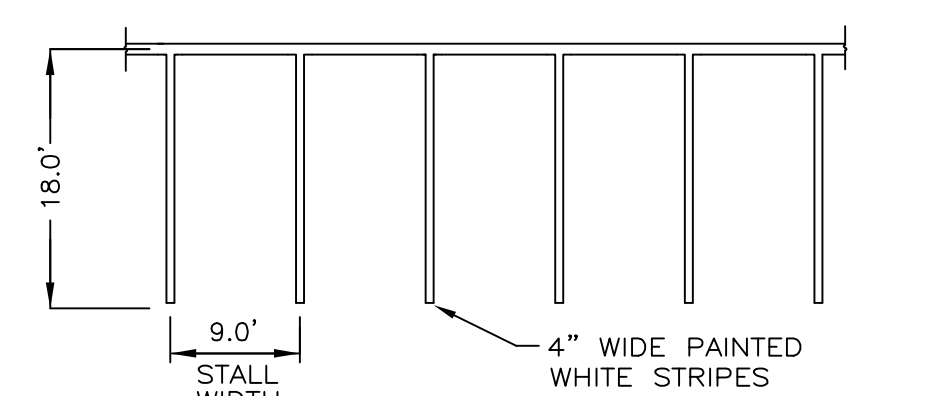
CONCRETE DUMPSTER PAD
NOT TO SCALE



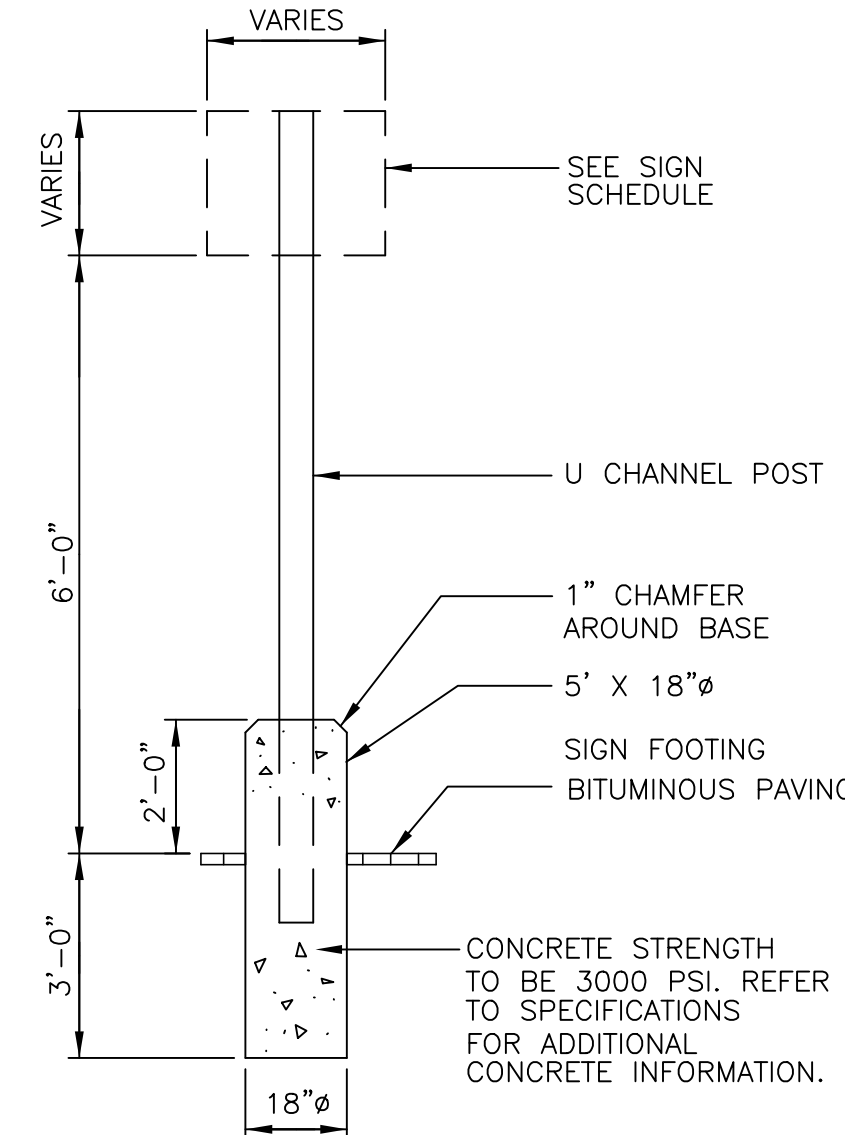
**FENCE POST DETAIL
(6' TALL VINYL STOCKADE FENCE)**
NOT TO SCALE



PAINTED HANDICAP SYMBOL DETAIL
NOT TO SCALE



STANDARD PARKING STRIPING DETAIL
NOT TO SCALE



**TYPICAL CHANNEL MOUNTING
DETAIL FOR HANDICAP SIGNS**
NOT TO SCALE

SIGN LEGEND

M.U.T.C.D. LEGEND	WIDTH	HEIGHT	SYMBOL
R1-1	30"	30"	STOP
R5-1	30"	30"	DO NOT ENTER
R6-1L	36"	12"	ONE WAY (Left Arrow)
R6-1R	36"	12"	ONE WAY (Right Arrow)
K-4438	12"	18"	HANDICAP ACCESS AISLE NO PARKING
K-6248	12"	18"	NO PARKING VAN ACCESS ONLY
K-1437	12"	18"	PARKING ONLY

SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND MASSACHUSETTS HIGHWAY DEPARTMENT STANDARDS FOR THE LATEST SIGN SPECIFICATIONS, TEXT, DIMENSIONS AND COLOR AND NOMENCLATURE.

BY: _____

DESCRIPTION: _____

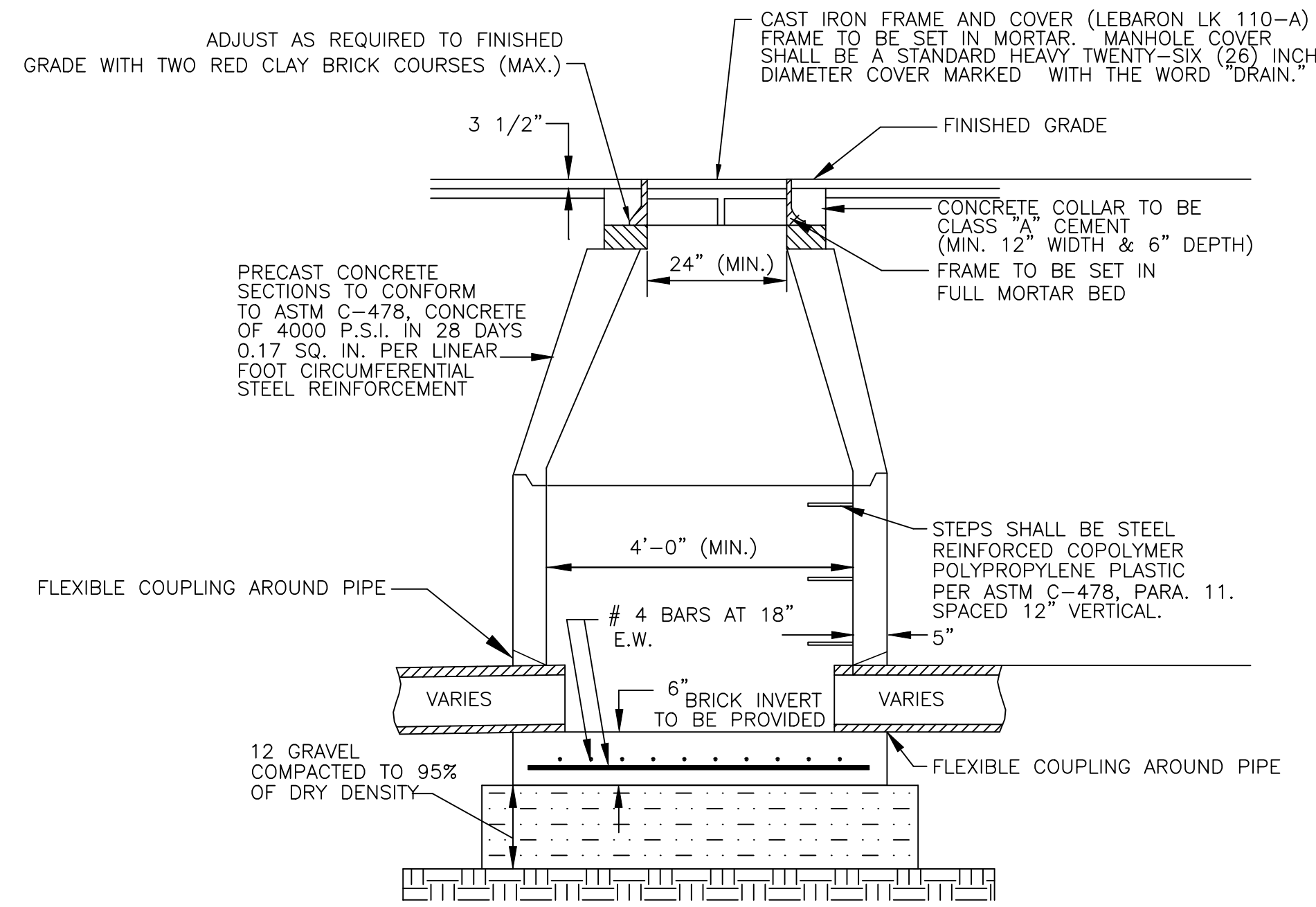
REV. DATE: _____

PREPARED BY: *Gregory J. Morse*

PROJECT: **61 NEW DRIFTWAY**
 (ASSESSOR'S PARCELS: 63-3-2A)
 SCITUATE, MASSACHUSETTS

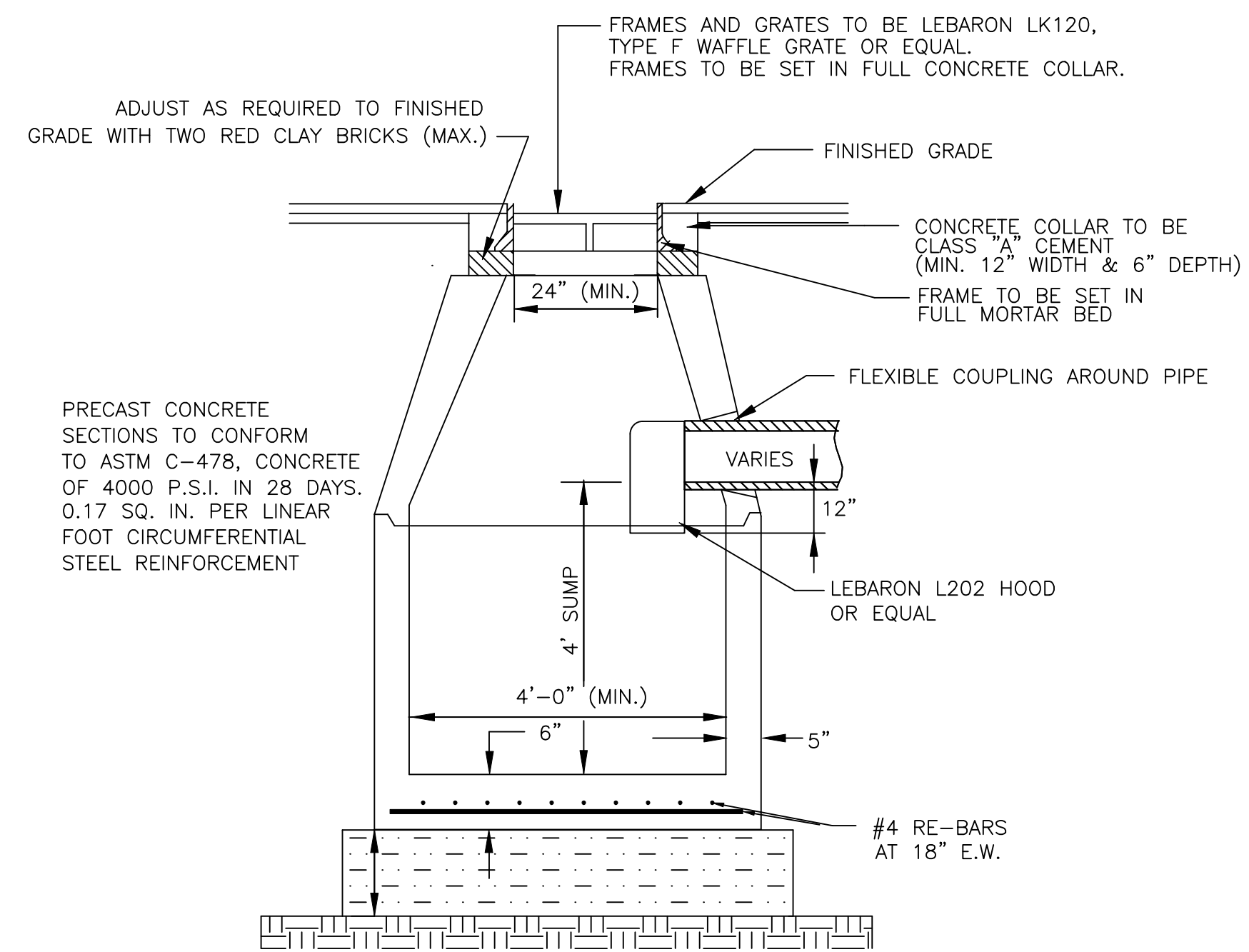
PREPARED FOR: **JOHN TEDESCHI**

JOB NO: 14-203
 SCALE: 1" = 20'
 DESIGN: PGG
 CHK: GJM
 DATE: 7/13/2022
 PLAN TITLE: **CONSTRUCTION DETAILS**
1
 SHEET: **6 OF 8**



- STORM DRAIN NOTES:**
1. REINFORCED CONCRETE DRAIN PIPE SHALL BE CLASS IV UNLESS OTHERWISE NOTED.
 2. DRAIN PIPES WITH LESS THAN 3' OF COVER SHALL BE CLASS V HDPE.
 3. BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY BY AASHTO T-180D METHOD.
 4. SHEETING, IF USED, SHALL BE CUT OFF NO MORE THAN 12" ABOVE TOP OF PIPE.
 5. UNSUITABLE SOIL BELOW THE INVERT SHALL BE REMOVED AND REPLACED WITH APPROVED MATERIAL AND SHALL NOT BE USED AS BACKFILL.
 6. BRICKS SHALL BE RED CLAY.

STANDARD MANHOLE DETAIL
NOT TO SCALE

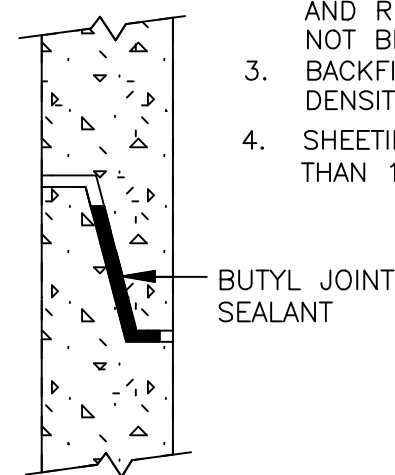


- STORM DRAIN NOTES:**
1. REINFORCED CONCRETE DRAIN PIPE SHALL BE CLASS IV UNLESS OTHERWISE NOTED.
 2. DRAIN PIPES WITH LESS THAN 3' OF COVER SHALL BE CLASS V HDPE.
 3. BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY BY AASHTO T-180D METHOD.
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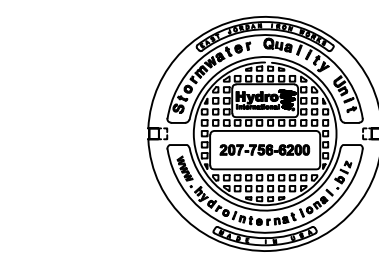
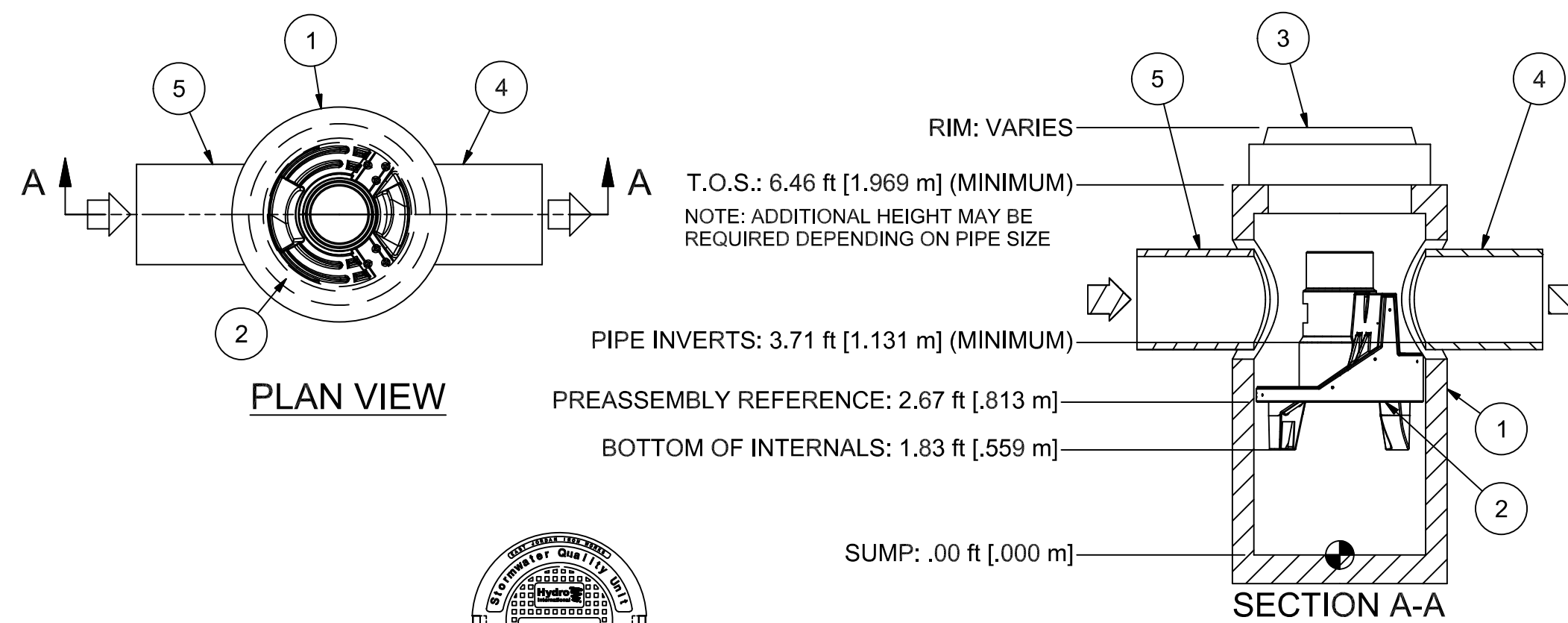
STANDARD CATCH BASIN DETAIL
NOT TO SCALE

STORM DRAIN NOTES:

1. REINFORCED CONCRETE DRAIN PIPE SHALL BE CLASS IV UNLESS OTHERWISE NOTED.
2. UNSUITABLE SOIL BELOW THE INVERT SHALL BE REMOVED AND REPLACED WITH APPROVED MATERIAL AND SHALL NOT BE USED AS BACKFILL.
3. BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY BY AASHTO T-180D METHOD.
4. SHEETING, IF USED, SHALL BE CUT OFF NO MORE THAN 12" ABOVE TOP OF PIPE.



PREFORMED FLEXIBLE JOINT SEALANT
SCALE: N.T.S.



HYDRO FRAME AND COVER (INCLUDED)
GRADE RINGS BY OTHERS AS REQUIRED

PARTS LIST				
ITEM	QTY	SIZE (in)	SIZE (mm)	DESCRIPTION
1	1	36	900	I.D. PRECAST MANHOLE
2	1			INTERNAL COMPONENTS (PRE-INSTALLED)
3	1	30	750	FRAME AND COVER (ROUND)
4	1	18 (MAX)	450 (MAX)	OUTLET PIPE (BY OTHERS)
5	1	18 (MAX)	450 (MAX)	INLET PIPE (BY OTHERS)

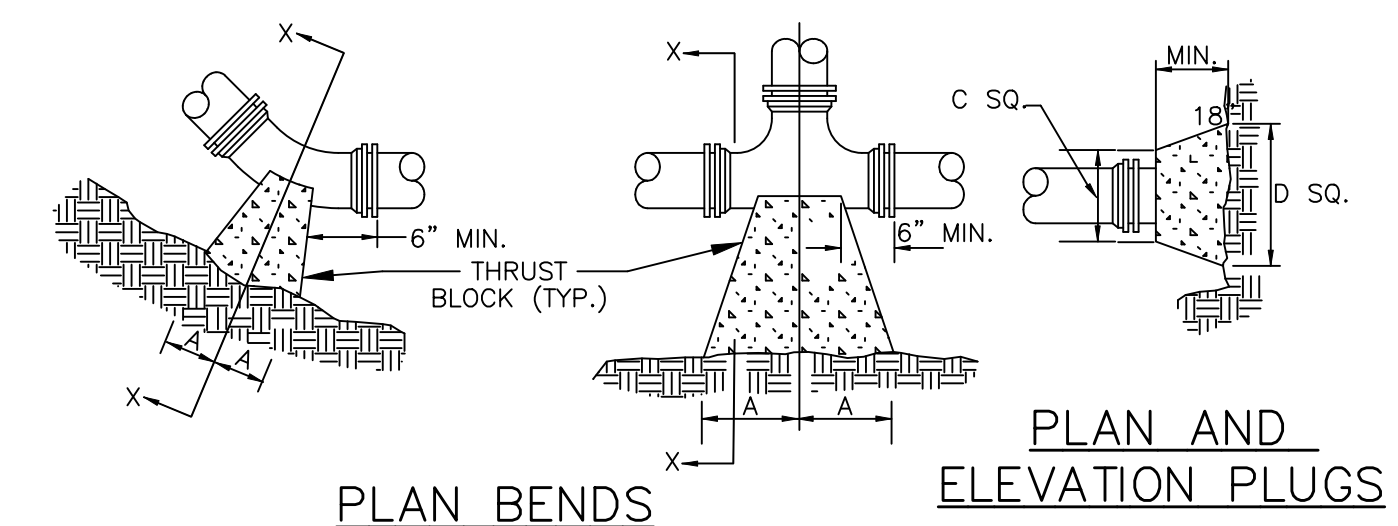
HYDRO-INTERNATIONAL 3'DIA. FIRST DEFENSE
NOT TO SCALE

PRODUCT SPECIFICATIONS

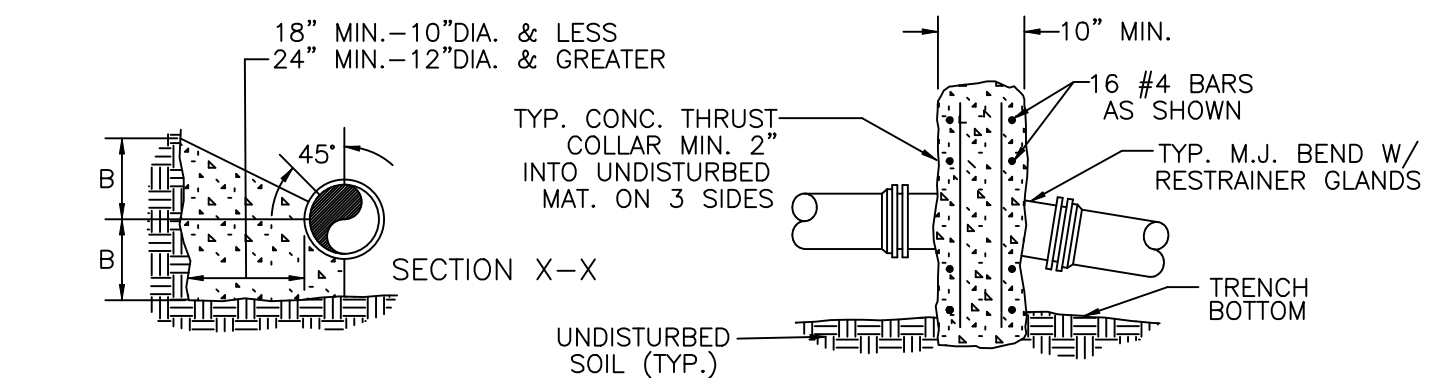
1. PEAK HYDRAULIC FLOW: 15.0 CFS
2. MIN. SEDIMENT STORAGE CAPACITY: 0.4 CU. YD.
3. MAX. INLET/OUTLET PIPE DIAMETER: 18 IN.
4. THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.

GENERAL NOTES

1. GENERAL ARRANGEMENT DRAWINGS ONLY. CONTACT HYDRO INTERNATIONAL FOR SITE SPECIFIC DRAWINGS.
2. THE DIAMETER OF THE INLET AND OUTLET MAY NO MORE THAN 18".
3. MULTIPLE INLET PIPES POSSIBLE (REFER TO PROJECT PLAN).
4. INLET/OUTLET PIPE ANGLE CAN VARY TO ALIGN WITH DRAINAGE NETWORK (REFER TO PROJECT PLAN).
5. PEAK FLOW RATE AND MINIMUM HEIGHT LIMITED BY AVAILABLE COVER AND PIPE DIAMETER.
6. LARGER SEDIMENT STORAGE MAY BE PROVIDED WITH A DEEPER SUMP DEPTH.
7. MANHOLE WALL AND SLAB THICKNESS ARE NOT TO SCALE.
8. CONTACT HYDRO-INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
9. CONTRACT TO CONFIRM RIM, PIPE INVERTS, PIPE DIAMETER, AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.



PLAN BENDS PLAN AND ELEVATION PLUGS



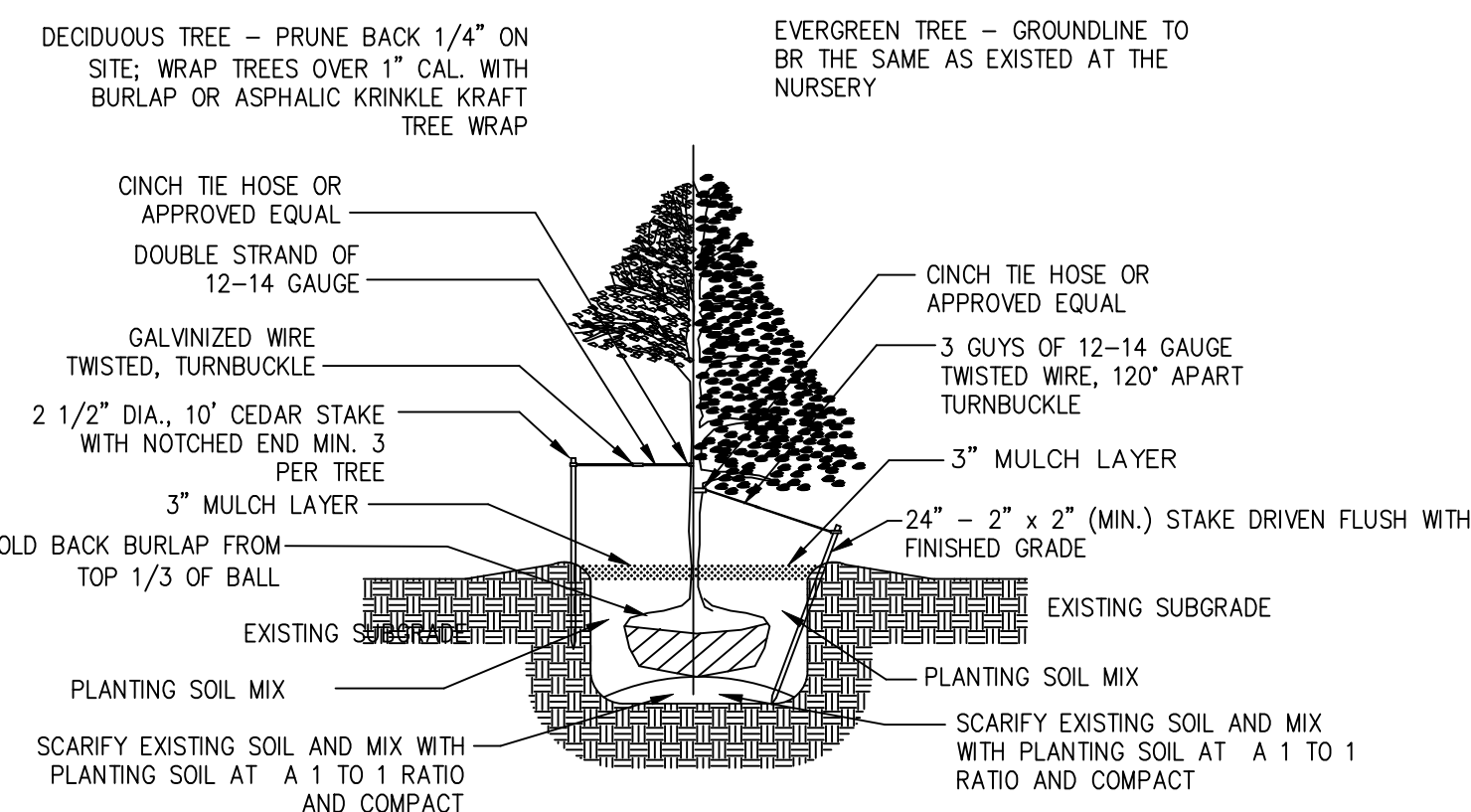
BENDS AND TEES SECTION OF VERTICAL BEND

NOTES:

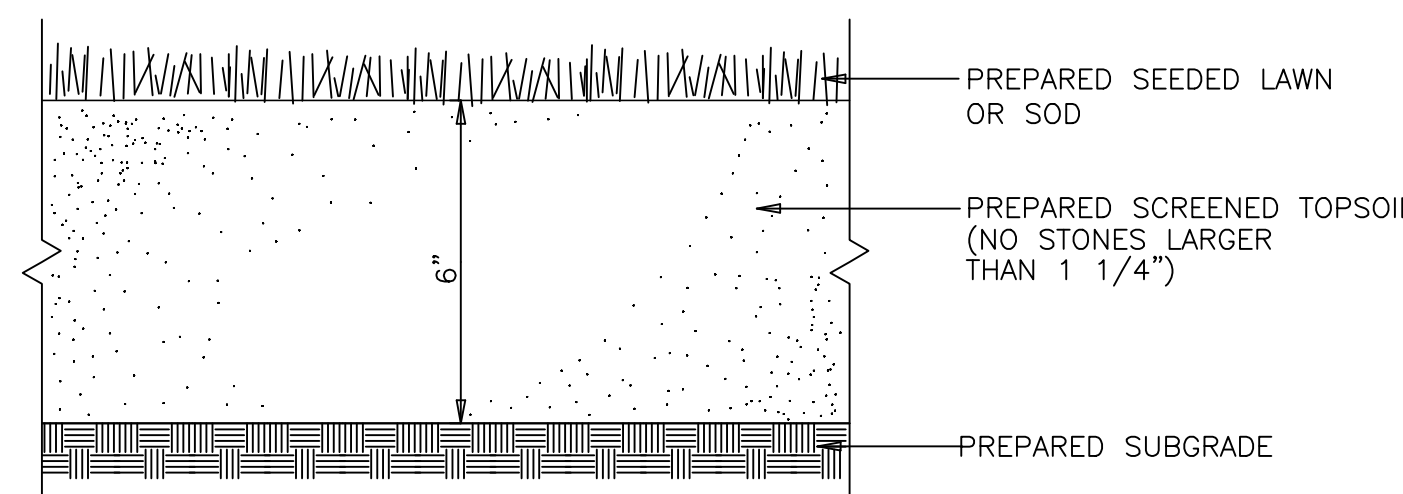
1. ALL WATER MAIN FITTINGS, BENDS, TEES, PLUGS ETC. SHALL BE RESTRAINED WITH THRUST BLOCKS UNLESS OTHERWISE NOTED.
2. ALL THRUST BLOCK & SUPPORT CONC. SHALL BE 3000 PSI READY MIX CONC.
3. ALL THRUST BLOCKS & SUPPORT CONC. SHALL BE INSTALLED TO BEAR AGAINST UNDISTURBED EARTH.
4. CONCRETE SHALL BE KEPT CLEAR OF MECHANICAL JOINTS.
5. ALL WATER MAIN FITTINGS, BENDS, TEES, PLUGS ETC. SHALL BE AMERICAN MADE.

PIPE SIZE	90° BEND		45° BEND		22.5° BEND		1.25" BEND		TEE		PLUG		
	A	B	A	B	A	B	A	B	A	B	C	D	
4"	8"	12"	8"	8"	8"	8"	8"	8"	8"	11"	9"	10"	6"
6"	18"	12"	8"	10"	8"	8"	8"	8"	8"	11"	10"	12"	18"
8"	18"	13"	10"	10"	8"	8"	8"	8"	8"	11"	12"	12"	24"
10"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"	
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"	
16"	26"	20"	16"	18"	11"	13"	11"	13"	18"	20"	20"	36"	
24"	82"	42"	62"	30"	44"	22"	22"	16"	82"	42"	82"	42"	
30"	185"	42"	100"	42"	52"	42"	40"	30"	185"	42"	185"	42"	

THRUST BLOCK DETAIL
NOT TO SCALE

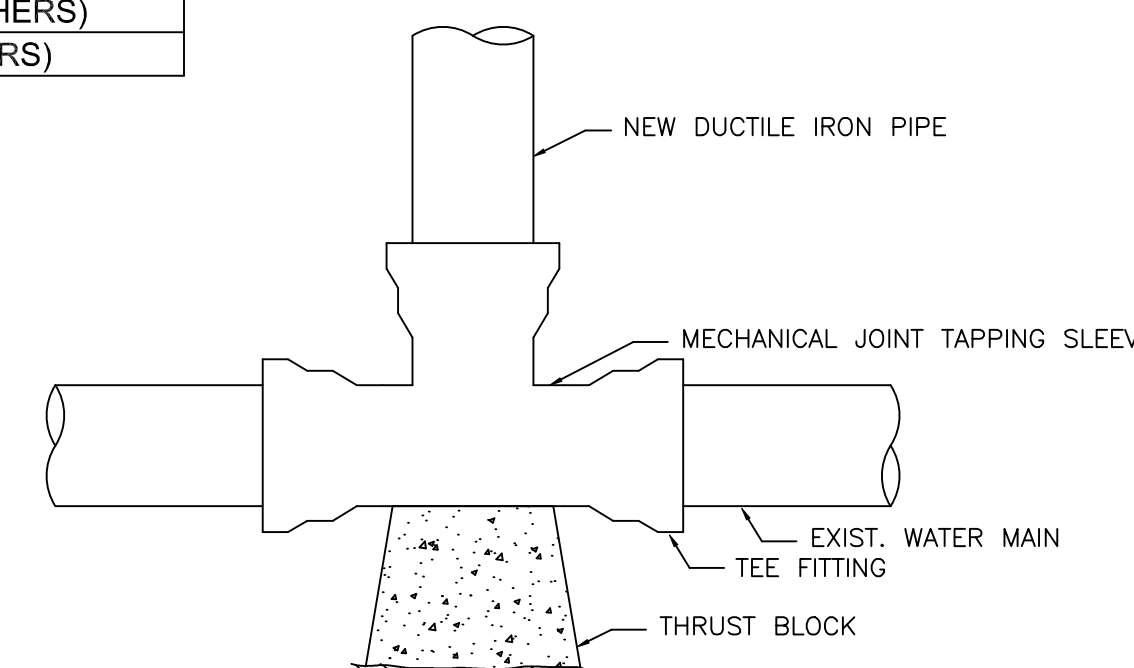


DECIDUOUS AND EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE



SEEDED OR SODDED LAWN DETAIL
SCALE: N.T.S.

- NOTES:**
1. TOP OF LOAM (TOPSOIL) IS FINISHED GRADE.
 2. TOPSOIL SHALL CONTAIN BETWEEN 5% AND 12% ORGANIC MATTER AND SHALL HAVE A MAXIMUM STONE SIZE OF 1 1/4".



- NOTE:**
1. ALL WATER COMPONENTS SHALL BE AMERICAN MADE.

TEE CONNECTION DETAIL
NOT TO SCALE

BY: _____
DESCRIPTION: _____
REV. DATE: _____

REGISTRY OF PROFESSIONALS
GREGORY J. MORSE
CIVIL
No. 47106
EXPIRES 12/31/2015

Gregory Morse

PREPARED BY: _____

MORSE ENGINEERING CONSULTANTS
10 NEW DRIFTWAY
SCITUATE, MASSACHUSETTS
(978) 544-2005

PROJECT: _____

61 NEW DRIFTWAY
(ASSESSOR'S PARCELS: 63-3-2A)
SCITUATE, MASSACHUSETTS

PREPARED FOR: JOHN TEDESCHI

JOB NO: 14-203
SCALE: 1" = 20'
DESIGN: PGG
CHK: GJM
DATE: 7/13/2012
PLAN TITLE: CONSTRUCTION DETAILS II
SHEET: 7 OF 8

CULTEC RECHARGER 330XLHD PRODUCT SPECIFICATIONS

GENERAL
CULTEC RECHARGER 330XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

- THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT, USA. (203-775-4416 OR 1-800-428-5832)
- THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
- THE CHAMBER SHALL BE ARCHED IN SHAPE.
- THE CHAMBER SHALL BE OPEN-BOTTOMED.
- THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 330XLHD SHALL BE 30.5 INCHES (775 mm) TALL, 52 INCHES (1321 mm) WIDE AND 9.5 FEET (2.59 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 330XLHD SHALL BE 7 FEET (2.13 m).
- MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 24 INCHES (600 mm) HOPE.
- THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL DIMENSIONS OF EACH SIDE PORTAL SHALL BE 10.5 INCHES (267 mm) HIGH BY 11.5 INCHES (292 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 11.75 INCHES (298 mm).
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
- THE NOMINAL STORAGE VOLUME OF THE RECHARGER 330XLHD CHAMBER SHALL BE 7,459 FT³ / FT (0.693 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 330XLHD SHALL BE 52,213 FT³ / UNIT (1,478 m³ / UNIT) - WITHOUT STONE.

11. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.

- THE RECHARGER 330XLHD CHAMBER SHALL HAVE FIFTY-SIX DISCHARGE HOLES SCORED INTO THE SIDE WALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
- THE RECHARGER 330XLHD CHAMBER SHALL HAVE 16 CORRUGATIONS.
- THE ENDWALL OF THE CHAMBER, WHEN PRESENT, SHALL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
- THE RECHARGER 330XLHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
- THE RECHARGER 330XLHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (876 mm) WIDE.
- THE RECHARGER 330XLHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (876 mm) WIDE.
- THE RECHARGER 330XLHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
- THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE RECHARGER 330XLHD AND ACT AS CROSS FEED CONNECTIONS.
- CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
- THE CHAMBER SHALL HAVE A 6 INCH (152 mm) DIAMETER RAISED INTEGRAL GAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
- THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY.
- MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.66 m) THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

CULTEC HVLV FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL
CULTEC HVLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 330XLHD STORMWATER CHAMBERS.

CHAMBER PARAMETERS

- THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
- THE CHAMBER SHALL BE ARCHED IN SHAPE.
- THE CHAMBER SHALL BE OPEN-BOTTOMED.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
- THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
- THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
- THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE RECHARGER 330XLHD AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
- THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY.

CULTEC NO. 4800™ WOVEN GEOTEXTILE

CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

GEOTEXTILE PARAMETERS

- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK RESISTANCE OF 20 X 20% PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 5,070 X 5,070 LBS/FT (74 X 74 KN/M) PER ASTM D4595 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2% STRAIN OF 960 X 1,096 LBS/FT (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 5% STRAIN OF 2,740 X 2,740 LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 10% STRAIN OF 4,800 X 4,800 LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,560 N) PER ASTM D6241 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.15 SEC-1 PER ASTM D4911 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT² (470 LPM/M²) PER ASTM D4911 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4355 TESTING METHOD.

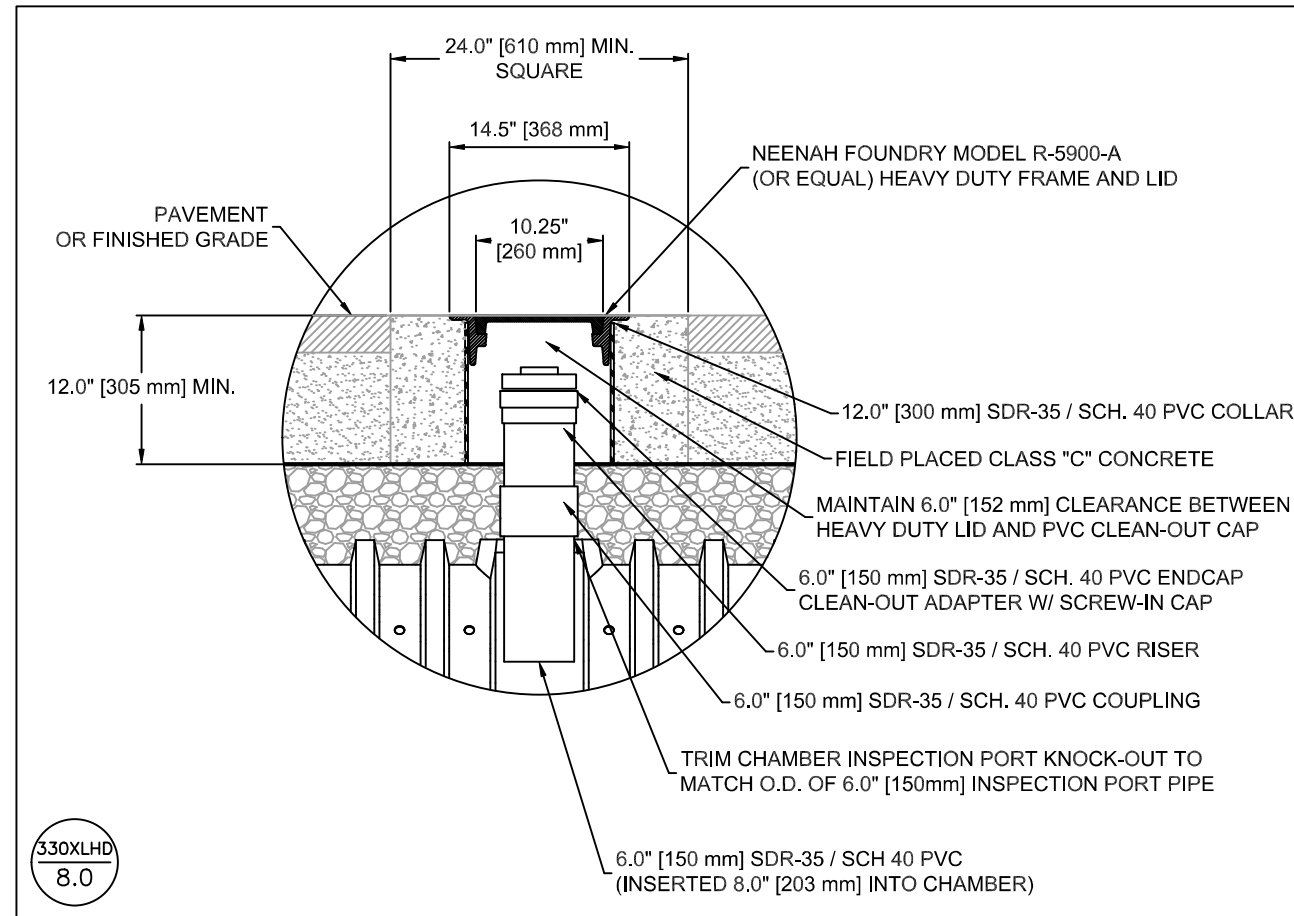
CULTEC NO. 410™ NON-WOVEN GEOTEXTILE

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.

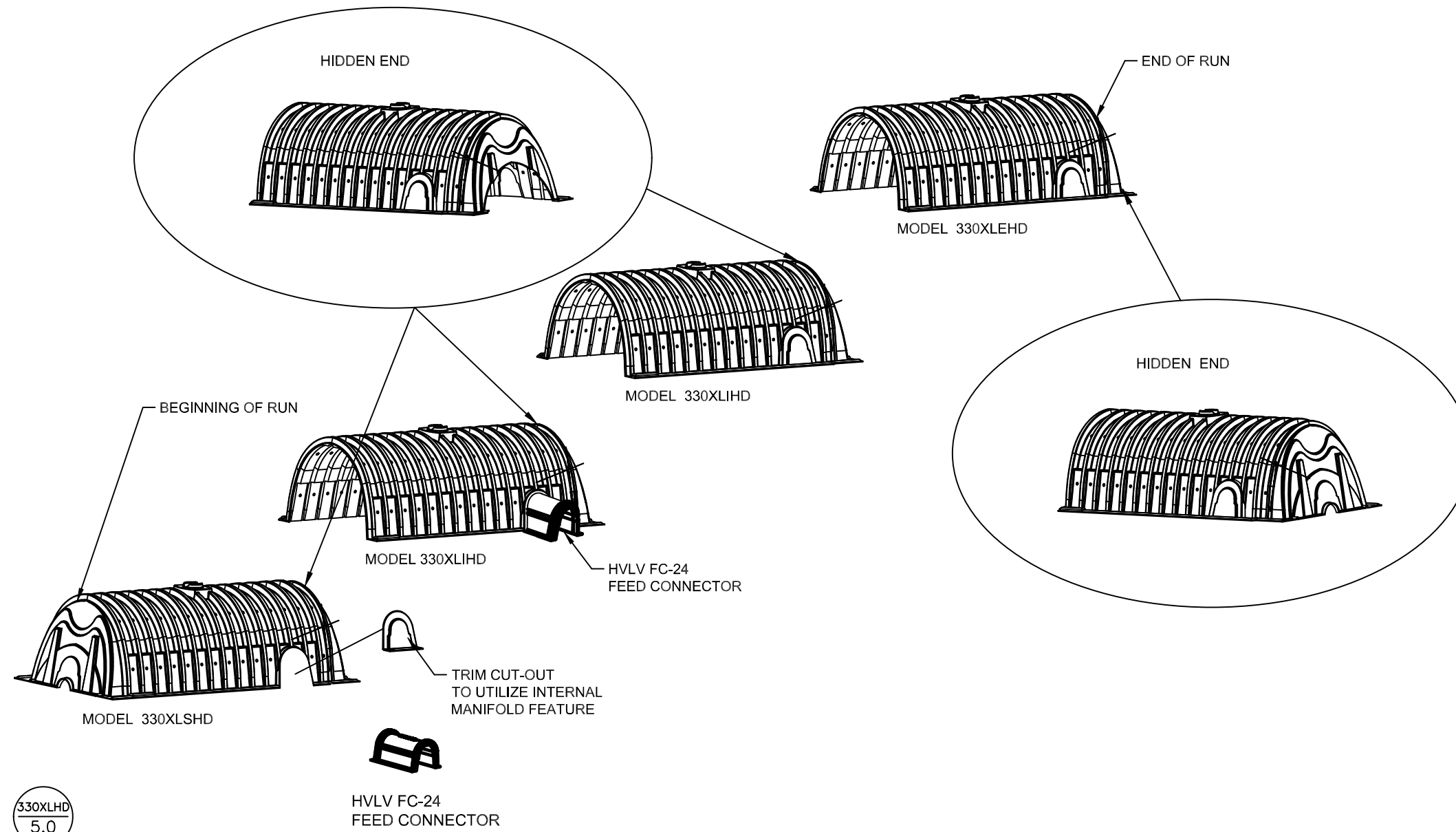
GEOTEXTILE PARAMETERS

- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
- THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A AOS VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4911 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER ASTM D4911 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.

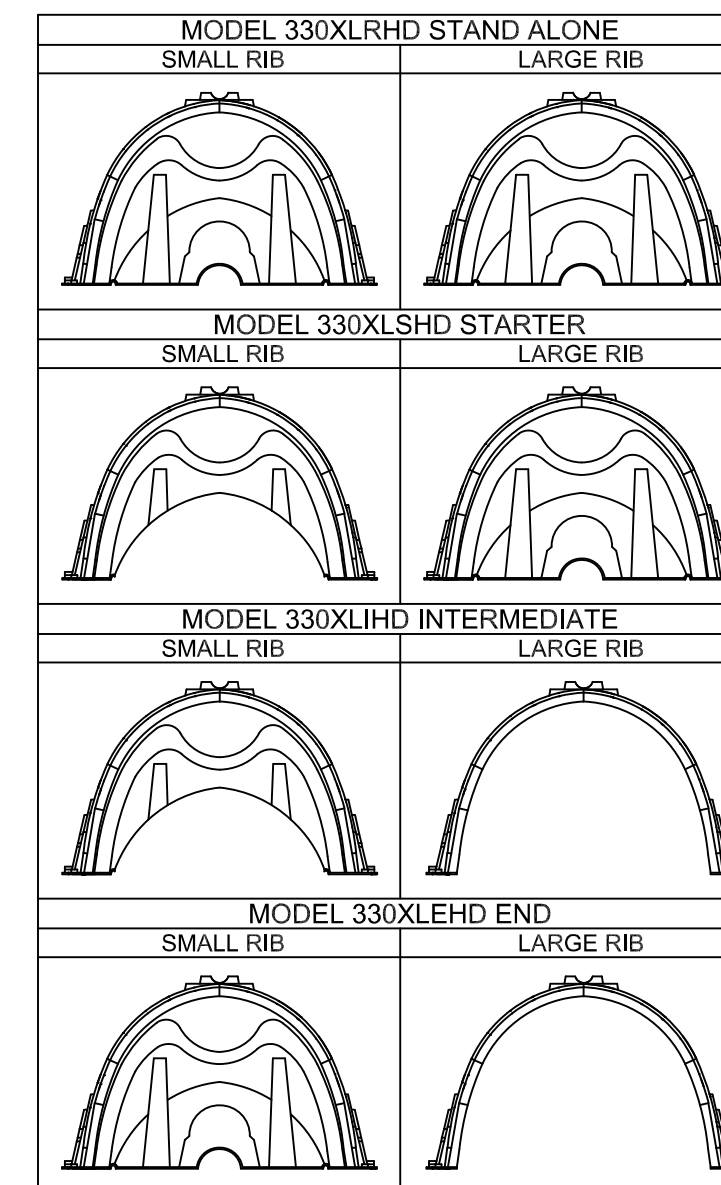
GENERAL NOTES



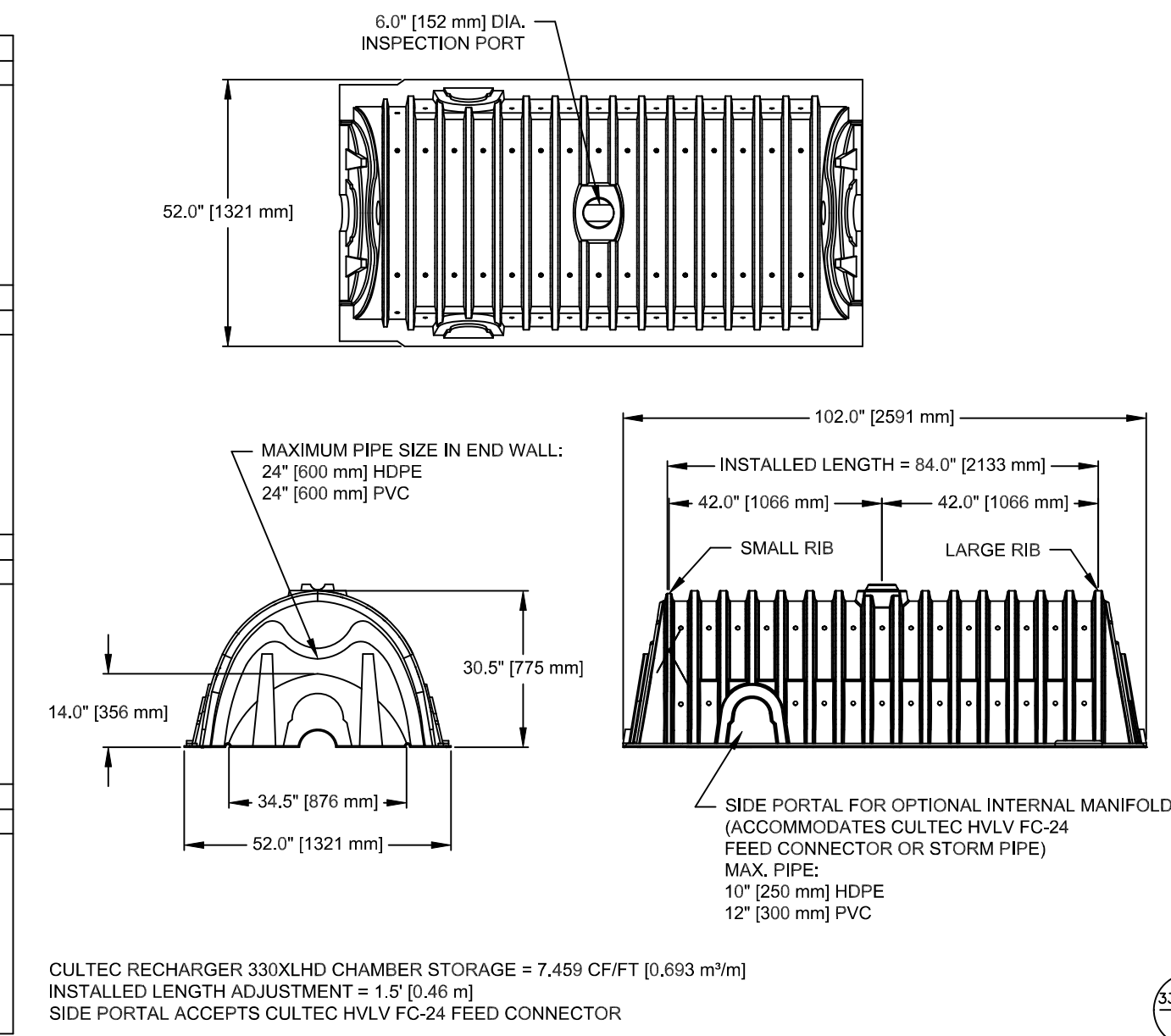
OPTIONAL INSPECTION PORT- ZOOM DETAIL



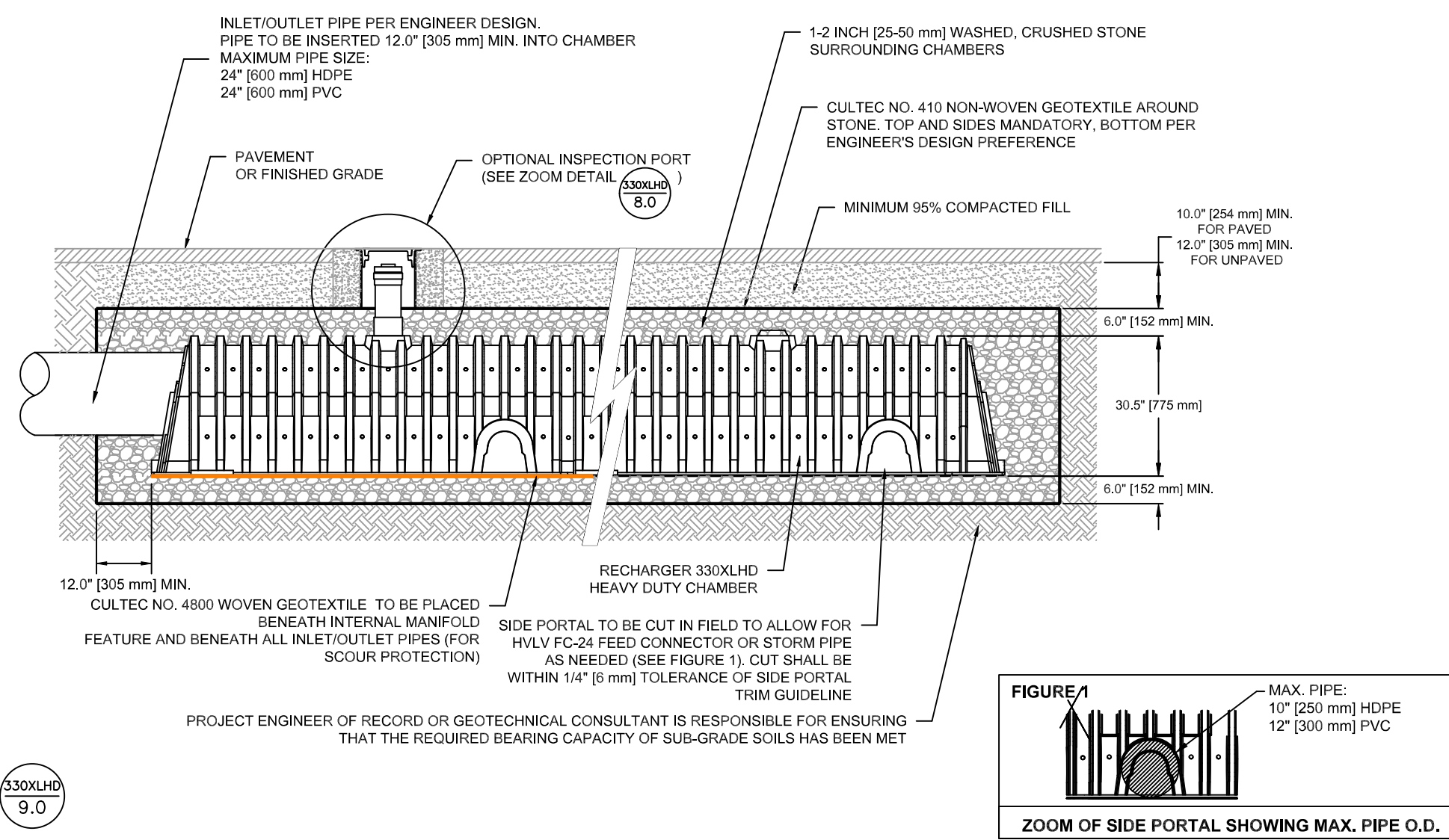
CULTEC RECHARGER 330XLHD HEAVY DUTY TYPICAL INTERLOCK



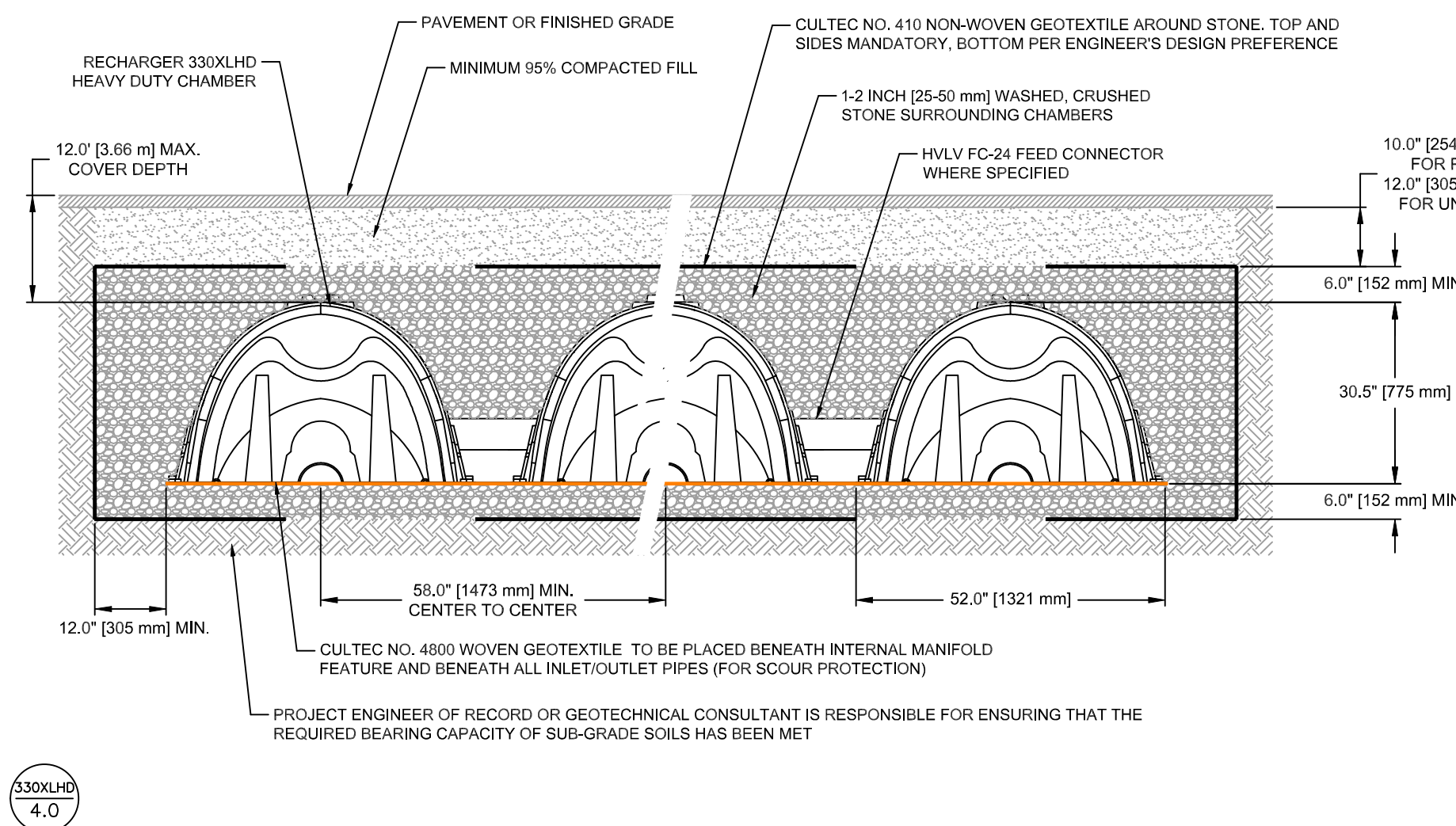
CULTEC RECHARGER 330XLHD HEAVY DUTY THREE VIEW



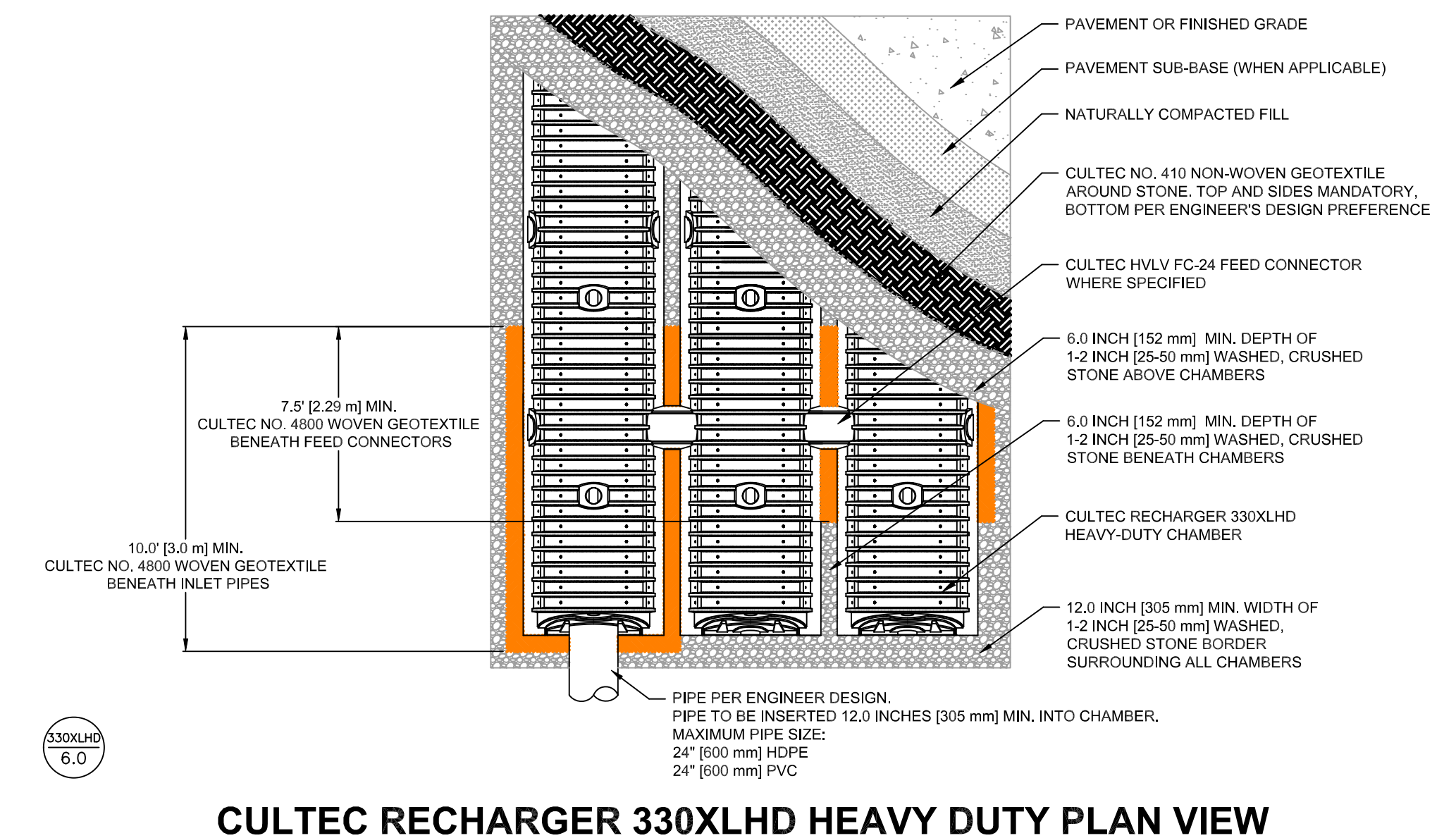
CULTEC RECHARGER 330XLHD HEAVY DUTY PLAN VIEW



CULTEC INTERNAL MANIFOLD - OPTIONAL INSPECTION PORT DETAIL



CULTEC RECHARGER 330XLHD HEAVY DUTY CROSS SECTION



BY:					
DESCRIPTION:					
REV. DATE:					
PREPARED BY:	61 NEW DRIFTWAY (ASSESSOR'S PARCELS: 63-3-2A) SCITUATE, MASSACHUSETTS				
PROJECT:	61 NEW DRIFTWAY (ASSESSOR'S PARCELS: 63-3-2A) SCITUATE, MASSACHUSETTS				
JOB NO:	14-203				
SCALE:	1" = 20'				
DESIGN:	PGG				
CHK:	GJM				
DATE:	7/13/2022				
PLAN TITLE:	CONSTRUCTION DETAILS III				
SHEET:	8 OF 8				